



Full wwPDB X-ray Structure Validation Report ⓘ

Apr 25, 2026 – 11:58 AM EDT

PDB ID : 3QA8 / pdb_00003qa8
Title : Crystal Structure of inhibitor of kappa B kinase beta
Authors : Xu, G.; Lo, Y.C.; Li, Q.; Napolitano, G.; Wu, X.; Jiang, X.; Dreano, M.; Karin, M.; Wu, H.
Deposited on : 2011-01-10
Resolution : 3.60 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

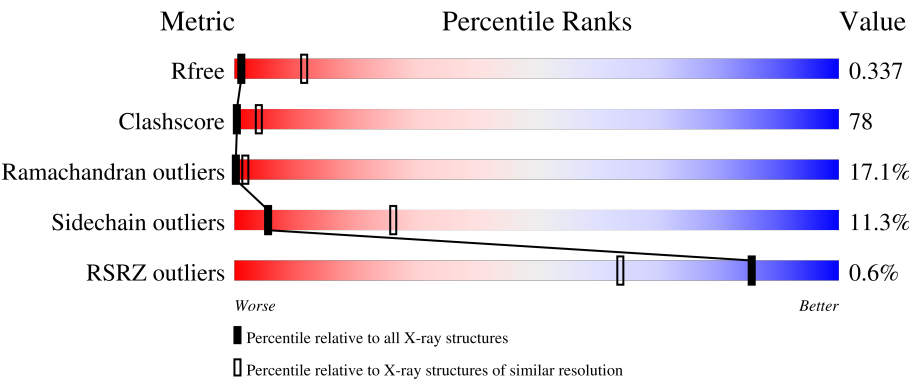
MolProbity	:	4-5-2 with Phenix2.0
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)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

1 Overall quality at a glance i

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

The reported resolution of this entry is 3.60 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R _{free}	180053	1747 (3.70-3.50)
Clashscore	190562	1827 (3.70-3.50)
Ramachandran outliers	187476	1773 (3.70-3.50)
Sidechain outliers	187428	1772 (3.70-3.50)
RSRZ outliers	180081	1745 (3.70-3.50)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	676	% 22%45%21%•8%
1	B	676	22%43%23%•8%
1	C	676	% 22%44%22%•8%
1	D	676	22%45%21%•8%
1	E	676	% 23%44%21%•8%

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Mol	Chain	Length	Quality of chain
1	F	676	23%43%22%•8%
1	G	676	22%38%18%•20%
1	H	676	20%39%18%•20%

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 39026 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 MGC80376 protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	622	Total	C	N	O	S	0	0	0
			5048	3189	899	929	31			
1	B	622	Total	C	N	O	S	0	0	0
			5048	3189	899	929	31			
1	C	622	Total	C	N	O	S	0	0	0
			5048	3189	899	929	31			
1	D	622	Total	C	N	O	S	0	0	0
			5048	3189	899	929	31			
1	E	622	Total	C	N	O	S	0	0	0
			5048	3189	899	929	31			
1	F	622	Total	C	N	O	S	0	0	0
			5048	3189	899	929	31			
1	G	541	Total	C	N	O	S	0	0	0
			4369	2764	779	800	26			
1	H	541	Total	C	N	O	S	0	0	0
			4369	2764	779	800	26			

There are 152 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	0	GLY	-	expression tag	UNP Q6INT1
A	1	GLY	-	expression tag	UNP Q6INT1
A	2	GLY	-	expression tag	UNP Q6INT1
A	3	ARG	-	expression tag	UNP Q6INT1
A	4	SER	-	expression tag	UNP Q6INT1
A	5	PRO	-	expression tag	UNP Q6INT1
A	6	SER	-	expression tag	UNP Q6INT1
A	7	LEU	-	expression tag	UNP Q6INT1
A	8	PRO	-	expression tag	UNP Q6INT1
A	9	THR	-	expression tag	UNP Q6INT1
A	10	GLN	-	expression tag	UNP Q6INT1
A	11	THR	-	expression tag	UNP Q6INT1
A	12	CYS	-	expression tag	UNP Q6INT1

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Chain	Residue	Modelled	Actual	Comment	Reference
A	13	GLY	-	expression tag	UNP Q6INT1
A	14	PRO	-	expression tag	UNP Q6INT1
A	15	TRP	-	expression tag	UNP Q6INT1
A	16	GLU	-	expression tag	UNP Q6INT1
A	177	GLU	SER	engineered mutation	UNP Q6INT1
A	181	GLU	SER	engineered mutation	UNP Q6INT1
B	0	GLY	-	expression tag	UNP Q6INT1
B	1	GLY	-	expression tag	UNP Q6INT1
B	2	GLY	-	expression tag	UNP Q6INT1
B	3	ARG	-	expression tag	UNP Q6INT1
B	4	SER	-	expression tag	UNP Q6INT1
B	5	PRO	-	expression tag	UNP Q6INT1
B	6	SER	-	expression tag	UNP Q6INT1
B	7	LEU	-	expression tag	UNP Q6INT1
B	8	PRO	-	expression tag	UNP Q6INT1
B	9	THR	-	expression tag	UNP Q6INT1
B	10	GLN	-	expression tag	UNP Q6INT1
B	11	THR	-	expression tag	UNP Q6INT1
B	12	CYS	-	expression tag	UNP Q6INT1
B	13	GLY	-	expression tag	UNP Q6INT1
B	14	PRO	-	expression tag	UNP Q6INT1
B	15	TRP	-	expression tag	UNP Q6INT1
B	16	GLU	-	expression tag	UNP Q6INT1
B	177	GLU	SER	engineered mutation	UNP Q6INT1
B	181	GLU	SER	engineered mutation	UNP Q6INT1
C	0	GLY	-	expression tag	UNP Q6INT1
C	1	GLY	-	expression tag	UNP Q6INT1
C	2	GLY	-	expression tag	UNP Q6INT1
C	3	ARG	-	expression tag	UNP Q6INT1
C	4	SER	-	expression tag	UNP Q6INT1
C	5	PRO	-	expression tag	UNP Q6INT1
C	6	SER	-	expression tag	UNP Q6INT1
C	7	LEU	-	expression tag	UNP Q6INT1
C	8	PRO	-	expression tag	UNP Q6INT1
C	9	THR	-	expression tag	UNP Q6INT1
C	10	GLN	-	expression tag	UNP Q6INT1
C	11	THR	-	expression tag	UNP Q6INT1
C	12	CYS	-	expression tag	UNP Q6INT1
C	13	GLY	-	expression tag	UNP Q6INT1
C	14	PRO	-	expression tag	UNP Q6INT1
C	15	TRP	-	expression tag	UNP Q6INT1
C	16	GLU	-	expression tag	UNP Q6INT1

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Chain	Residue	Modelled	Actual	Comment	Reference
C	177	GLU	SER	engineered mutation	UNP Q6INT1
C	181	GLU	SER	engineered mutation	UNP Q6INT1
D	0	GLY	-	expression tag	UNP Q6INT1
D	1	GLY	-	expression tag	UNP Q6INT1
D	2	GLY	-	expression tag	UNP Q6INT1
D	3	ARG	-	expression tag	UNP Q6INT1
D	4	SER	-	expression tag	UNP Q6INT1
D	5	PRO	-	expression tag	UNP Q6INT1
D	6	SER	-	expression tag	UNP Q6INT1
D	7	LEU	-	expression tag	UNP Q6INT1
D	8	PRO	-	expression tag	UNP Q6INT1
D	9	THR	-	expression tag	UNP Q6INT1
D	10	GLN	-	expression tag	UNP Q6INT1
D	11	THR	-	expression tag	UNP Q6INT1
D	12	CYS	-	expression tag	UNP Q6INT1
D	13	GLY	-	expression tag	UNP Q6INT1
D	14	PRO	-	expression tag	UNP Q6INT1
D	15	TRP	-	expression tag	UNP Q6INT1
D	16	GLU	-	expression tag	UNP Q6INT1
D	177	GLU	SER	engineered mutation	UNP Q6INT1
D	181	GLU	SER	engineered mutation	UNP Q6INT1
E	0	GLY	-	expression tag	UNP Q6INT1
E	1	GLY	-	expression tag	UNP Q6INT1
E	2	GLY	-	expression tag	UNP Q6INT1
E	3	ARG	-	expression tag	UNP Q6INT1
E	4	SER	-	expression tag	UNP Q6INT1
E	5	PRO	-	expression tag	UNP Q6INT1
E	6	SER	-	expression tag	UNP Q6INT1
E	7	LEU	-	expression tag	UNP Q6INT1
E	8	PRO	-	expression tag	UNP Q6INT1
E	9	THR	-	expression tag	UNP Q6INT1
E	10	GLN	-	expression tag	UNP Q6INT1
E	11	THR	-	expression tag	UNP Q6INT1
E	12	CYS	-	expression tag	UNP Q6INT1
E	13	GLY	-	expression tag	UNP Q6INT1
E	14	PRO	-	expression tag	UNP Q6INT1
E	15	TRP	-	expression tag	UNP Q6INT1
E	16	GLU	-	expression tag	UNP Q6INT1
E	177	GLU	SER	engineered mutation	UNP Q6INT1
E	181	GLU	SER	engineered mutation	UNP Q6INT1
F	0	GLY	-	expression tag	UNP Q6INT1
F	1	GLY	-	expression tag	UNP Q6INT1

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Chain	Residue	Modelled	Actual	Comment	Reference
F	2	GLY	-	expression tag	UNP Q6INT1
F	3	ARG	-	expression tag	UNP Q6INT1
F	4	SER	-	expression tag	UNP Q6INT1
F	5	PRO	-	expression tag	UNP Q6INT1
F	6	SER	-	expression tag	UNP Q6INT1
F	7	LEU	-	expression tag	UNP Q6INT1
F	8	PRO	-	expression tag	UNP Q6INT1
F	9	THR	-	expression tag	UNP Q6INT1
F	10	GLN	-	expression tag	UNP Q6INT1
F	11	THR	-	expression tag	UNP Q6INT1
F	12	CYS	-	expression tag	UNP Q6INT1
F	13	GLY	-	expression tag	UNP Q6INT1
F	14	PRO	-	expression tag	UNP Q6INT1
F	15	TRP	-	expression tag	UNP Q6INT1
F	16	GLU	-	expression tag	UNP Q6INT1
F	177	GLU	SER	engineered mutation	UNP Q6INT1
F	181	GLU	SER	engineered mutation	UNP Q6INT1
G	0	GLY	-	expression tag	UNP Q6INT1
G	1	GLY	-	expression tag	UNP Q6INT1
G	2	GLY	-	expression tag	UNP Q6INT1
G	3	ARG	-	expression tag	UNP Q6INT1
G	4	SER	-	expression tag	UNP Q6INT1
G	5	PRO	-	expression tag	UNP Q6INT1
G	6	SER	-	expression tag	UNP Q6INT1
G	7	LEU	-	expression tag	UNP Q6INT1
G	8	PRO	-	expression tag	UNP Q6INT1
G	9	THR	-	expression tag	UNP Q6INT1
G	10	GLN	-	expression tag	UNP Q6INT1
G	11	THR	-	expression tag	UNP Q6INT1
G	12	CYS	-	expression tag	UNP Q6INT1
G	13	GLY	-	expression tag	UNP Q6INT1
G	14	PRO	-	expression tag	UNP Q6INT1
G	15	TRP	-	expression tag	UNP Q6INT1
G	16	GLU	-	expression tag	UNP Q6INT1
G	177	GLU	SER	engineered mutation	UNP Q6INT1
G	181	GLU	SER	engineered mutation	UNP Q6INT1
H	0	GLY	-	expression tag	UNP Q6INT1
H	1	GLY	-	expression tag	UNP Q6INT1
H	2	GLY	-	expression tag	UNP Q6INT1
H	3	ARG	-	expression tag	UNP Q6INT1
H	4	SER	-	expression tag	UNP Q6INT1
H	5	PRO	-	expression tag	UNP Q6INT1

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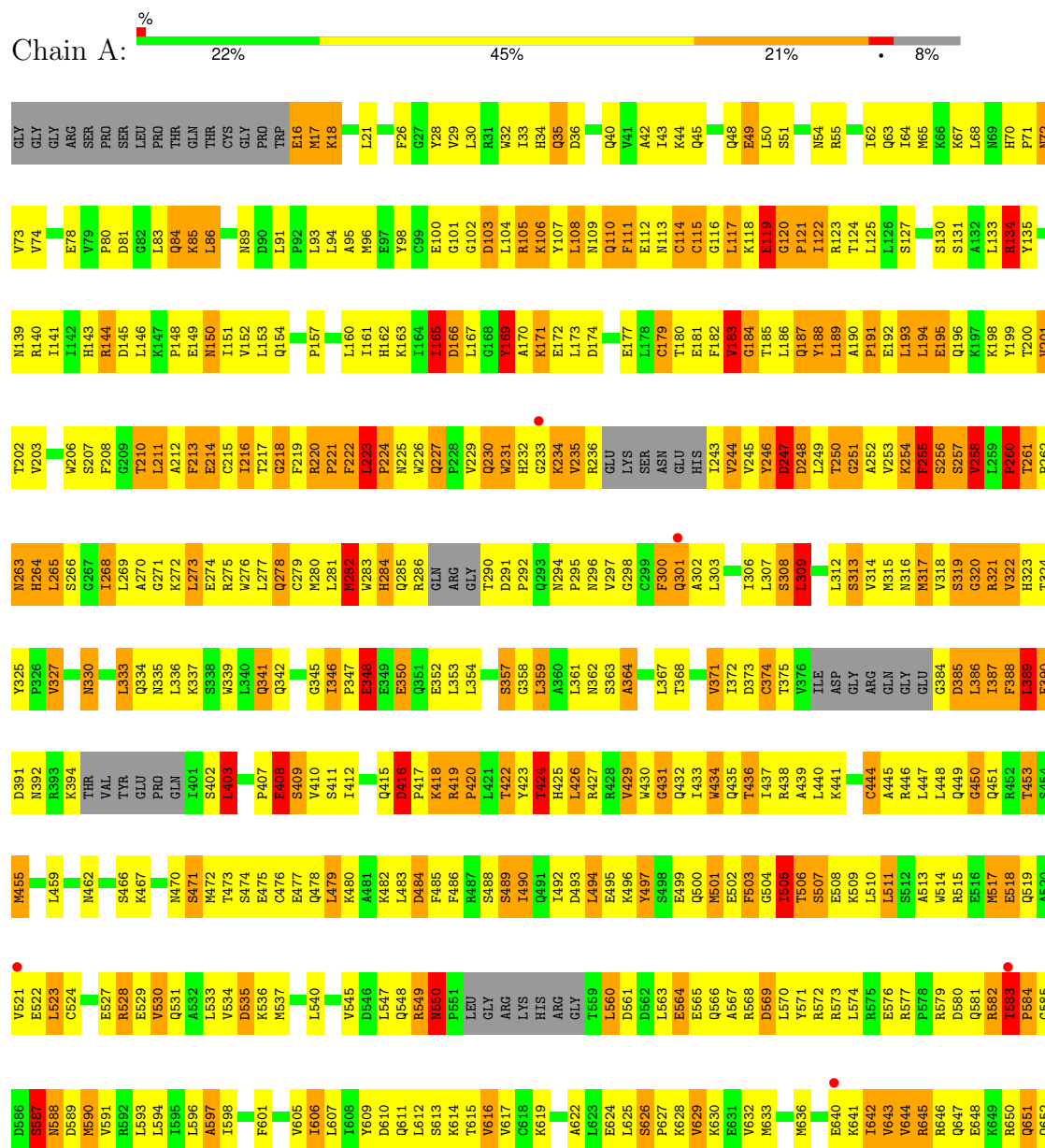
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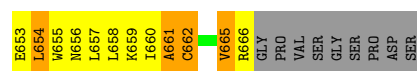
Chain	Residue	Modelled	Actual	Comment	Reference
H	6	SER	-	expression tag	UNP Q6INT1
H	7	LEU	-	expression tag	UNP Q6INT1
H	8	PRO	-	expression tag	UNP Q6INT1
H	9	THR	-	expression tag	UNP Q6INT1
H	10	GLN	-	expression tag	UNP Q6INT1
H	11	THR	-	expression tag	UNP Q6INT1
H	12	CYS	-	expression tag	UNP Q6INT1
H	13	GLY	-	expression tag	UNP Q6INT1
H	14	PRO	-	expression tag	UNP Q6INT1
H	15	TRP	-	expression tag	UNP Q6INT1
H	16	GLU	-	expression tag	UNP Q6INT1
H	177	GLU	SER	engineered mutation	UNP Q6INT1
H	181	GLU	SER	engineered mutation	UNP Q6INT1

3 Residue-property plots

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

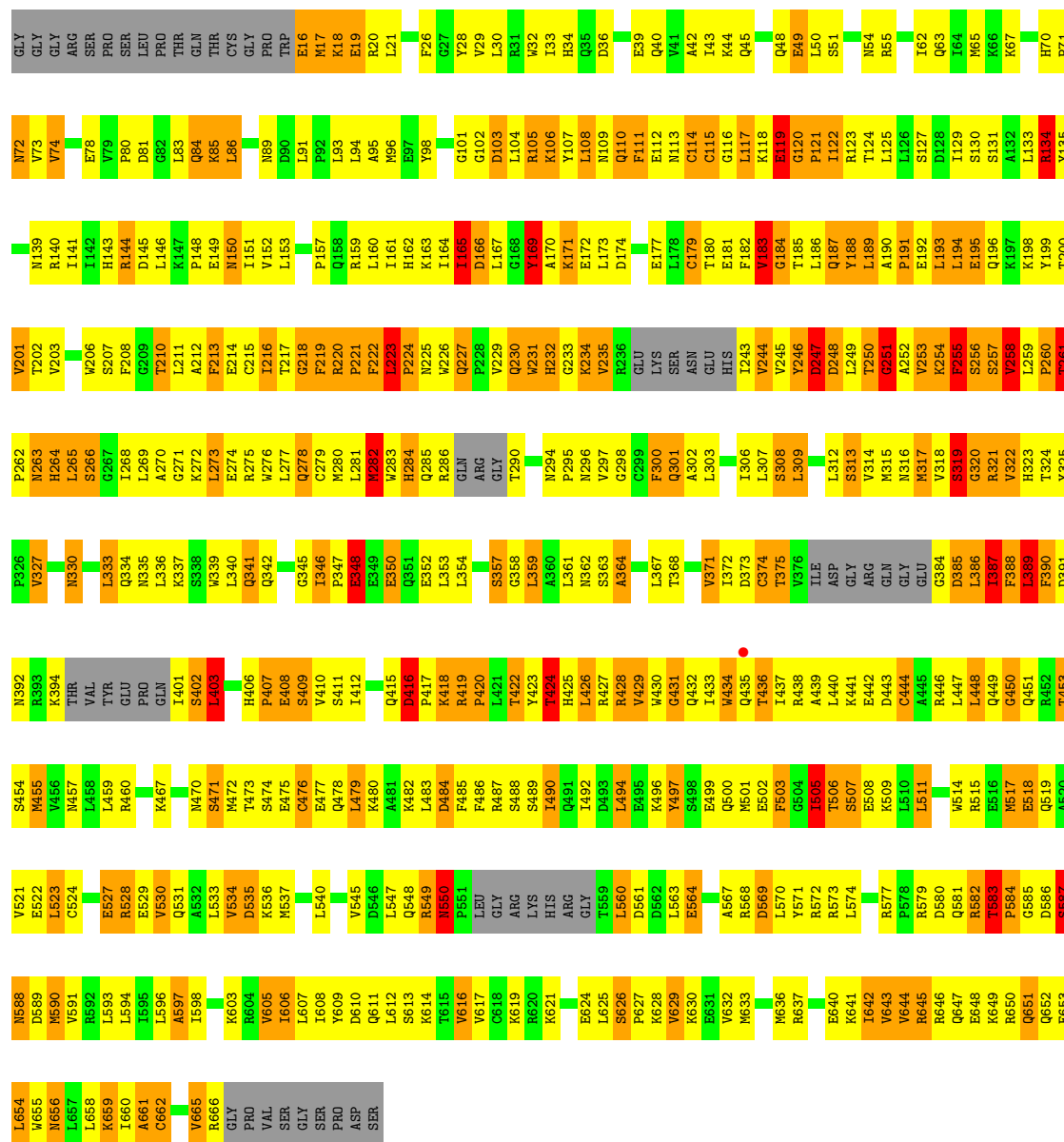
• Molecule 1: MGC80376 protein





• Molecule 1: MGC80376 protein

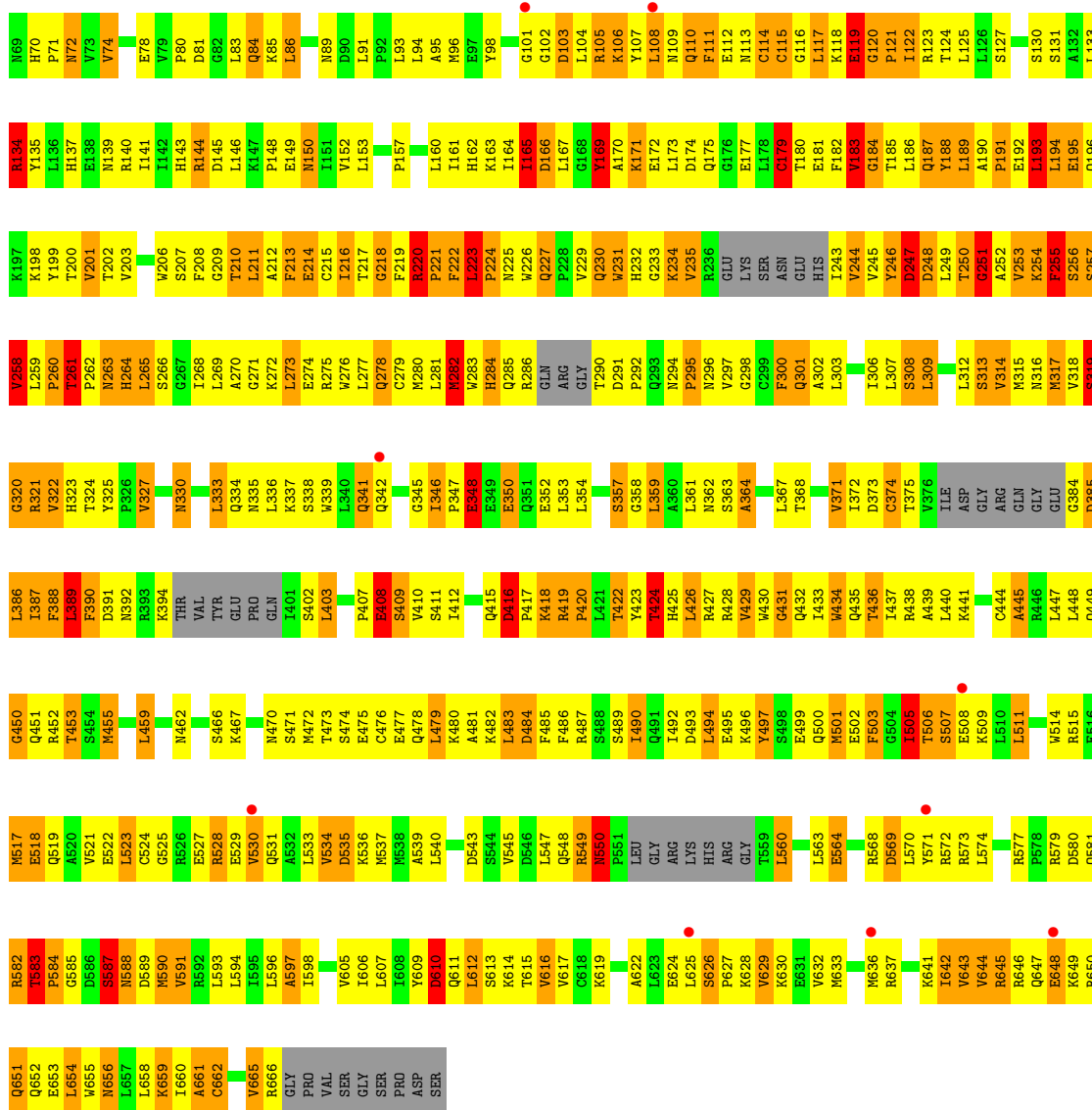
Chain B: 22% 43% 23% 8%



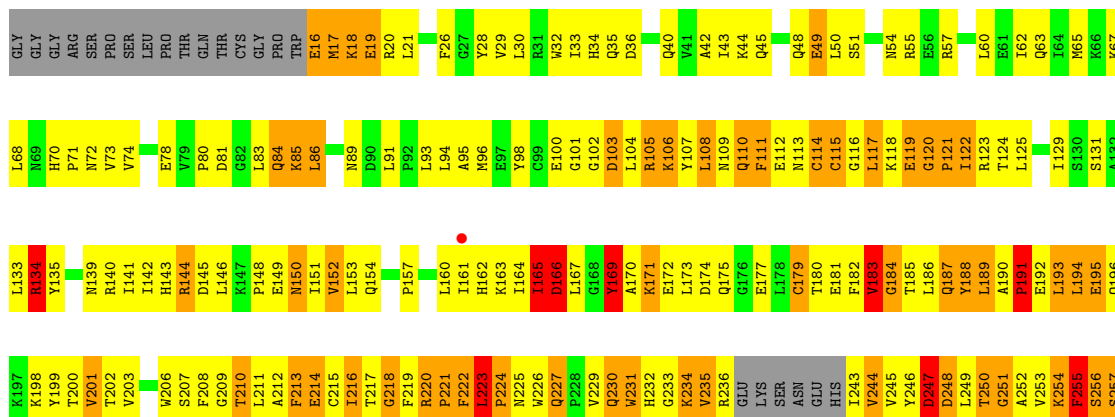
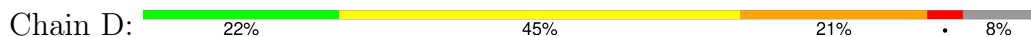
• Molecule 1: MGC80376 protein

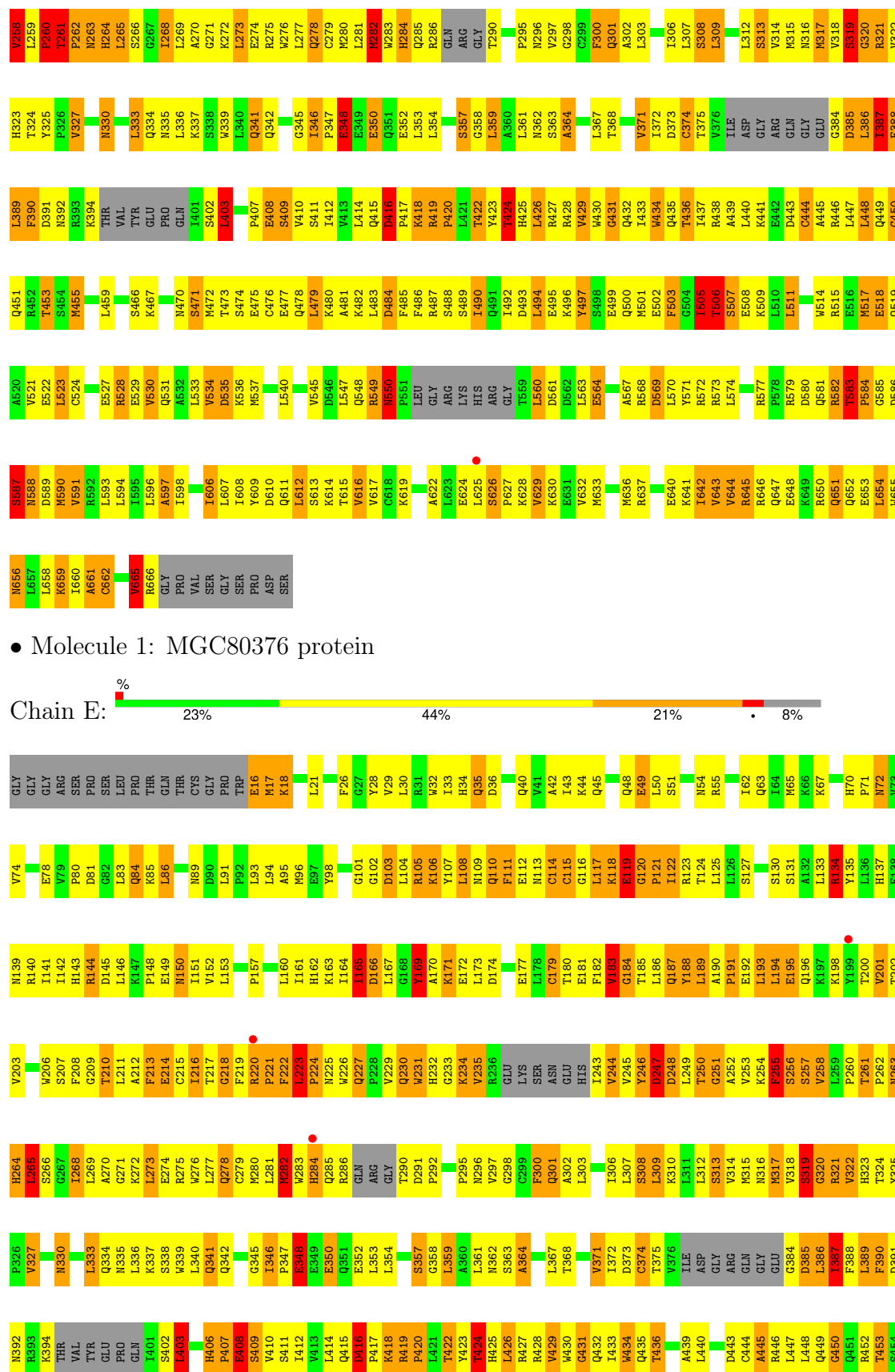
Chain C: 22% 44% 22% 8%

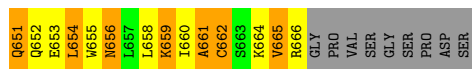




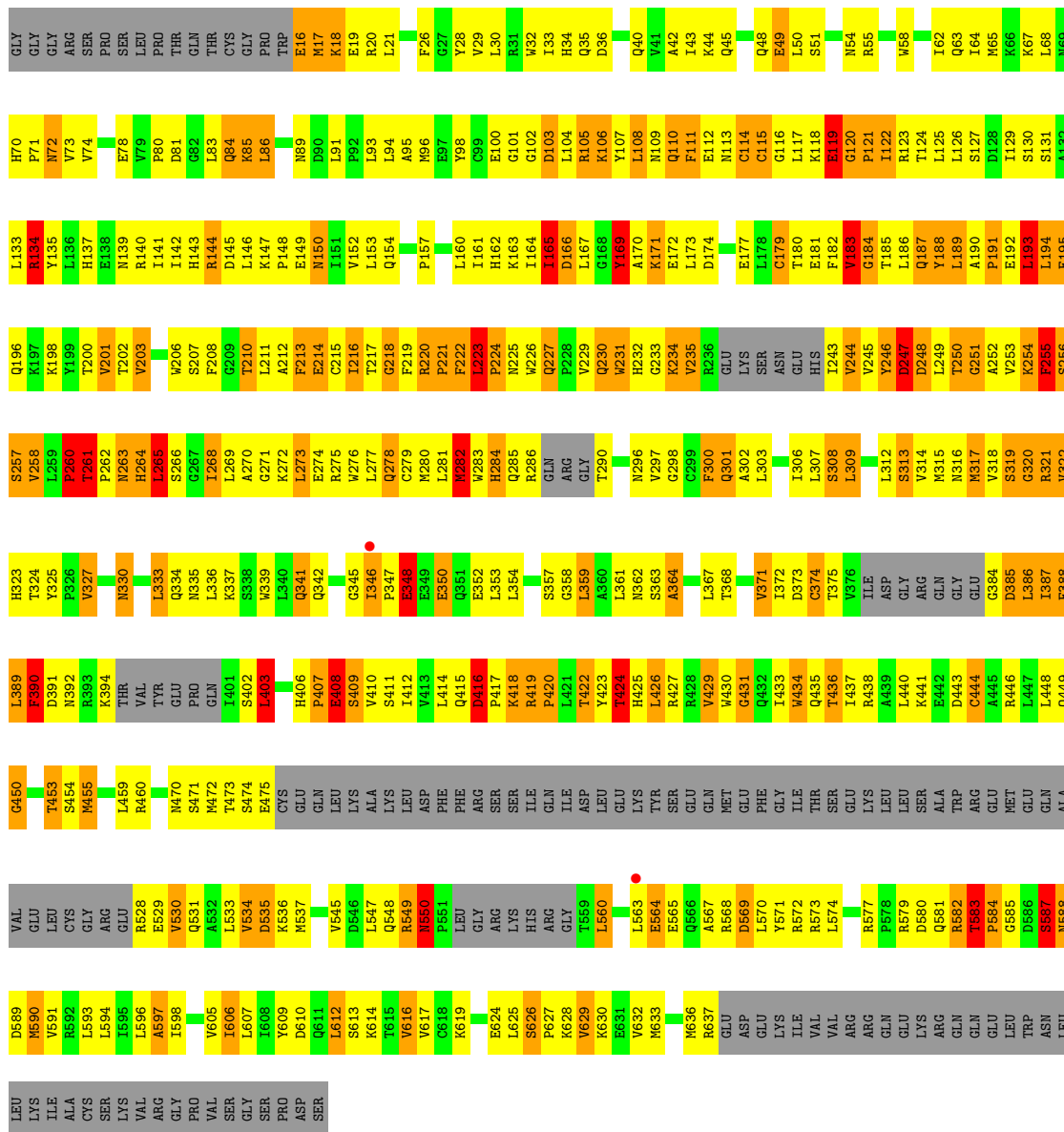
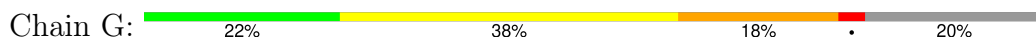
- Molecule 1: MGC80376 protein



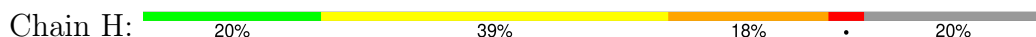




- Molecule 1: MGC80376 protein



- Molecule 1: MGC80376 protein





4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	103.17Å 140.34Å 161.17Å 71.28° 79.56° 86.04°	Depositor
Resolution (Å)	15.00 – 3.60 15.00 – 3.60	Depositor EDS
% Data completeness (in resolution range)	78.7 (15.00-3.60) 78.0 (15.00-3.60)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	0.04	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.18 (at 3.48Å)	Xtriage
Refinement program	PHENIX (phenix.refine: 1.6.4_486)	Depositor
R, R_{free}	0.308 , 0.344 0.302 , 0.337	Depositor DCC
R_{free} test set	4846 reflections (4.56%)	wwPDB-VP
Wilson B-factor (Å ²)	84.5	Xtriage
Anisotropy	0.749	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.19 , 107.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.30$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.91	EDS
Total number of atoms	39026	wwPDB-VP
Average B, all atoms (Å ²)	199.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.42% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality

5.1 Standard geometry

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.96	9/5136 (0.2%)	1.33	50/6931 (0.7%)
1	B	0.98	12/5136 (0.2%)	1.34	53/6931 (0.8%)
1	C	1.02	10/5136 (0.2%)	1.34	59/6931 (0.9%)
1	D	0.96	8/5136 (0.2%)	1.32	50/6931 (0.7%)
1	E	1.00	9/5136 (0.2%)	1.33	48/6931 (0.7%)
1	F	0.99	10/5136 (0.2%)	1.33	47/6931 (0.7%)
1	G	0.96	7/4448 (0.2%)	1.32	42/6012 (0.7%)
1	H	0.98	8/4448 (0.2%)	1.33	43/6012 (0.7%)
All	All	0.98	73/39712 (0.2%)	1.33	392/53610 (0.7%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	11
1	B	0	11
1	C	0	10
1	D	0	11
1	E	0	10
1	F	0	11
1	G	0	11
1	H	0	11
All	All	0	86

All (73) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	261	THR	CA-C	10.16	1.65	1.52
1	C	261	THR	CA-C	10.05	1.65	1.52
1	G	261	THR	CA-C	9.20	1.64	1.52
1	A	261	THR	CA-C	9.04	1.64	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	119	GLU	N-CA	-8.27	1.38	1.46
1	H	261	THR	CA-C	8.02	1.62	1.52
1	D	261	THR	CA-C	7.46	1.62	1.52
1	E	119	GLU	N-CA	-7.25	1.39	1.46
1	H	119	GLU	N-CA	-6.97	1.39	1.46
1	B	261	THR	CA-C	6.95	1.61	1.52
1	C	258	VAL	N-CA	6.92	1.55	1.46
1	F	261	THR	CA-C	6.80	1.61	1.52
1	E	258	VAL	N-CA	6.72	1.54	1.46
1	E	18	LYS	CA-C	6.48	1.55	1.52
1	F	165	ILE	CA-CB	6.47	1.63	1.54
1	G	119	GLU	N-CA	-6.37	1.40	1.46
1	A	188	TYR	N-CA	6.36	1.54	1.46
1	F	316	ASN	CA-C	-6.35	1.48	1.52
1	B	165	ILE	CA-CB	6.34	1.63	1.54
1	C	119	GLU	N-CA	-6.33	1.40	1.46
1	F	18	LYS	CA-C	6.23	1.55	1.52
1	A	18	LYS	CA-C	6.22	1.55	1.52
1	G	18	LYS	CA-C	6.07	1.55	1.52
1	D	18	LYS	CA-C	6.05	1.55	1.52
1	B	119	GLU	N-CA	-5.98	1.40	1.46
1	E	445	ALA	CA-C	5.92	1.60	1.52
1	A	119	GLU	N-CA	-5.91	1.40	1.46
1	H	165	ILE	CA-CB	5.84	1.62	1.54
1	D	188	TYR	N-CA	5.82	1.53	1.46
1	F	258	VAL	N-CA	5.81	1.53	1.46
1	A	254	LYS	N-CA	5.71	1.52	1.46
1	B	254	LYS	N-CA	5.71	1.52	1.46
1	H	254	LYS	N-CA	5.67	1.52	1.46
1	H	18	LYS	CA-C	5.65	1.55	1.52
1	C	426	LEU	N-CA	-5.64	1.38	1.46
1	B	428	ARG	CA-C	-5.63	1.45	1.52
1	A	165	ILE	CA-CB	5.62	1.62	1.54
1	B	426	LEU	N-CA	-5.56	1.38	1.46
1	D	258	VAL	N-CA	5.56	1.53	1.46
1	A	258	VAL	N-CA	5.50	1.53	1.46
1	E	426	LEU	N-CA	-5.48	1.38	1.46
1	B	219	PHE	N-CA	5.48	1.53	1.46
1	G	188	TYR	N-CA	5.47	1.52	1.46
1	D	254	LYS	N-CA	5.47	1.52	1.46
1	C	445	ALA	CA-C	5.43	1.60	1.52
1	B	258	VAL	N-CA	5.40	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	188	TYR	N-CA	5.38	1.52	1.46
1	F	219	PHE	N-CA	5.38	1.53	1.46
1	G	254	LYS	N-CA	5.36	1.52	1.46
1	C	18	LYS	CA-C	5.34	1.55	1.52
1	D	506	THR	CA-CB	5.34	1.62	1.53
1	F	254	LYS	N-CA	5.34	1.52	1.46
1	E	165	ILE	CA-CB	5.27	1.61	1.54
1	F	188	TYR	N-CA	5.25	1.52	1.46
1	H	429	VAL	CA-CB	-5.24	1.48	1.54
1	D	165	ILE	CA-CB	5.24	1.61	1.54
1	E	246	TYR	N-CA	5.23	1.52	1.45
1	G	165	ILE	CA-CB	5.21	1.61	1.54
1	C	246	TYR	N-CA	5.21	1.52	1.45
1	D	166	ASP	N-CA	5.20	1.52	1.46
1	A	246	TYR	N-CA	5.20	1.52	1.45
1	H	426	LEU	N-CA	-5.17	1.39	1.46
1	C	165	ILE	CA-CB	5.13	1.61	1.54
1	C	119	GLU	C-O	-5.10	1.17	1.23
1	A	426	LEU	N-CA	-5.07	1.39	1.46
1	E	118	LYS	N-CA	5.06	1.52	1.46
1	G	246	TYR	N-CA	5.05	1.52	1.45
1	B	246	TYR	CA-C	5.04	1.58	1.52
1	H	413	VAL	CA-CB	5.04	1.61	1.54
1	B	18	LYS	CA-C	5.03	1.54	1.52
1	F	476	CYS	N-CA	-5.03	1.40	1.46
1	C	220	ARG	C-N	5.01	1.41	1.33
1	B	246	TYR	N-CA	5.01	1.52	1.45

All (392) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	223	LEU	CA-C-N	-12.93	107.72	120.52
1	F	223	LEU	C-N-CA	-12.93	107.72	120.52
1	A	223	LEU	CA-C-N	-11.84	108.06	120.85
1	A	223	LEU	C-N-CA	-11.84	108.06	120.85
1	F	426	LEU	N-CA-C	-11.84	98.93	113.50
1	B	223	LEU	CA-C-N	-11.69	108.23	120.85
1	B	223	LEU	C-N-CA	-11.69	108.23	120.85
1	G	426	LEU	N-CA-C	-11.66	99.15	113.50
1	E	426	LEU	N-CA-C	-11.58	99.25	113.50
1	H	223	LEU	CA-C-N	-11.58	108.34	120.85
1	H	223	LEU	C-N-CA	-11.58	108.34	120.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	223	LEU	CA-C-N	-11.56	108.36	120.85
1	C	223	LEU	C-N-CA	-11.56	108.36	120.85
1	A	426	LEU	N-CA-C	-11.54	99.31	113.50
1	G	223	LEU	CA-C-N	-11.50	108.43	120.85
1	G	223	LEU	C-N-CA	-11.50	108.43	120.85
1	D	223	LEU	CA-C-N	-11.49	108.44	120.85
1	D	223	LEU	C-N-CA	-11.49	108.44	120.85
1	B	426	LEU	N-CA-C	-11.45	99.42	113.50
1	E	223	LEU	CA-C-N	-11.36	108.58	120.85
1	E	223	LEU	C-N-CA	-11.36	108.58	120.85
1	H	426	LEU	N-CA-C	-11.10	99.85	113.50
1	C	426	LEU	N-CA-C	-10.96	100.02	113.50
1	D	426	LEU	N-CA-C	-10.94	100.04	113.50
1	C	256	SER	N-CA-C	10.57	127.03	109.06
1	E	256	SER	N-CA-C	10.45	126.82	109.06
1	H	256	SER	N-CA-C	10.37	126.68	109.06
1	D	256	SER	N-CA-C	10.28	126.54	109.06
1	B	256	SER	N-CA-C	10.10	126.23	109.06
1	G	256	SER	N-CA-C	10.04	126.12	109.06
1	A	256	SER	N-CA-C	9.99	126.05	109.06
1	F	256	SER	N-CA-C	9.98	126.02	109.06
1	C	392	ASN	N-CA-C	8.43	119.36	108.24
1	B	18	LYS	N-CA-C	8.16	121.09	108.12
1	A	309	LEU	CA-C-N	-8.15	111.75	123.00
1	A	309	LEU	C-N-CA	-8.15	111.75	123.00
1	F	18	LYS	N-CA-C	8.09	120.99	108.12
1	H	112	GLU	N-CA-C	-8.09	100.33	112.54
1	D	18	LYS	N-CA-C	8.05	120.92	108.12
1	G	18	LYS	N-CA-C	8.05	120.91	108.12
1	F	224	PRO	N-CA-C	-8.04	99.14	111.13
1	H	264	HIS	N-CA-C	8.00	120.04	110.44
1	E	18	LYS	N-CA-C	7.99	120.82	108.12
1	A	18	LYS	N-CA-C	7.92	120.71	108.12
1	C	18	LYS	N-CA-C	7.92	120.71	108.12
1	A	518	GLU	N-CA-C	-7.90	101.38	111.02
1	B	392	ASN	N-CA-C	7.89	119.12	108.23
1	E	264	HIS	N-CA-C	7.89	119.91	110.44
1	G	346	ILE	CA-C-N	7.89	127.82	119.85
1	G	346	ILE	C-N-CA	7.89	127.82	119.85
1	D	112	GLU	N-CA-C	-7.88	100.64	112.54
1	A	112	GLU	N-CA-C	-7.83	100.71	112.54
1	H	18	LYS	N-CA-C	7.82	120.56	108.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	264	HIS	N-CA-C	7.79	119.79	110.44
1	B	264	HIS	N-CA-C	7.72	119.71	110.44
1	E	112	GLU	N-CA-C	-7.70	100.91	112.54
1	C	112	GLU	N-CA-C	-7.69	100.93	112.54
1	H	193	LEU	N-CA-C	-7.68	94.44	110.80
1	A	346	ILE	CA-C-N	7.66	127.58	119.85
1	A	346	ILE	C-N-CA	7.66	127.58	119.85
1	B	346	ILE	CA-C-N	7.65	127.58	119.85
1	B	346	ILE	C-N-CA	7.65	127.58	119.85
1	B	518	GLU	N-CA-C	-7.65	101.68	111.02
1	E	392	ASN	N-CA-C	7.65	118.79	108.23
1	F	112	GLU	N-CA-C	-7.65	100.99	112.54
1	C	346	ILE	CA-C-N	7.62	127.54	119.85
1	C	346	ILE	C-N-CA	7.62	127.54	119.85
1	D	392	ASN	N-CA-C	7.62	118.74	108.23
1	F	392	ASN	N-CA-C	7.60	118.27	108.24
1	H	346	ILE	CA-C-N	7.59	127.52	119.85
1	H	346	ILE	C-N-CA	7.59	127.52	119.85
1	E	346	ILE	CA-C-N	7.54	127.47	119.85
1	E	346	ILE	C-N-CA	7.54	127.47	119.85
1	H	392	ASN	N-CA-C	7.54	118.19	108.24
1	A	193	LEU	N-CA-C	-7.51	94.81	110.80
1	G	193	LEU	N-CA-C	-7.51	94.81	110.80
1	B	484	ASP	N-CA-C	7.50	120.92	111.69
1	D	511	LEU	N-CA-C	-7.48	106.09	114.62
1	G	264	HIS	N-CA-C	7.48	119.42	110.44
1	D	193	LEU	N-CA-C	-7.47	94.88	110.80
1	F	591	VAL	N-CA-C	-7.46	105.85	111.90
1	F	346	ILE	CA-C-N	7.46	127.39	119.85
1	F	346	ILE	C-N-CA	7.46	127.39	119.85
1	D	346	ILE	CA-C-N	7.46	127.38	119.85
1	D	346	ILE	C-N-CA	7.46	127.38	119.85
1	F	264	HIS	N-CA-C	7.44	119.37	110.44
1	A	392	ASN	N-CA-C	7.44	118.50	108.23
1	E	193	LEU	N-CA-C	-7.44	94.96	110.80
1	C	193	LEU	N-CA-C	-7.43	94.97	110.80
1	B	193	LEU	N-CA-C	-7.42	94.98	110.80
1	B	112	GLU	N-CA-C	-7.39	101.38	112.54
1	G	112	GLU	N-CA-C	-7.37	101.41	112.54
1	F	193	LEU	N-CA-C	-7.34	95.17	110.80
1	A	264	HIS	N-CA-C	7.33	119.23	110.44
1	E	518	GLU	N-CA-C	-7.29	102.12	111.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	518	GLU	N-CA-C	-7.24	102.18	111.02
1	C	264	HIS	N-CA-C	7.16	119.03	110.44
1	F	518	GLU	N-CA-C	-7.15	102.30	111.02
1	F	484	ASP	N-CA-C	7.14	120.47	111.69
1	C	282	MET	N-CA-C	7.12	117.42	108.45
1	E	224	PRO	N-CA-C	-7.10	98.39	111.03
1	F	560	LEU	N-CA-C	-7.10	103.47	111.14
1	A	511	LEU	N-CA-C	-7.01	106.63	114.62
1	B	224	PRO	N-CA-C	-7.01	98.55	111.03
1	D	19	GLU	N-CA-C	7.00	117.74	108.07
1	F	511	LEU	N-CA-C	-6.99	106.65	114.62
1	A	224	PRO	N-CA-C	-6.98	98.61	111.03
1	A	560	LEU	N-CA-C	-6.97	103.61	111.14
1	B	511	LEU	N-CA-C	-6.96	106.69	114.62
1	C	224	PRO	N-CA-C	-6.94	98.68	111.03
1	C	518	GLU	N-CA-C	-6.93	102.57	111.02
1	G	392	ASN	N-CA-C	6.90	117.75	108.23
1	B	19	GLU	N-CA-C	6.90	117.59	108.07
1	B	651	GLN	N-CA-C	-6.89	105.00	113.41
1	D	591	VAL	N-CA-C	-6.88	106.33	111.90
1	E	511	LEU	N-CA-C	-6.86	106.80	114.62
1	F	475	GLU	CA-C-N	-6.86	110.56	120.29
1	F	475	GLU	C-N-CA	-6.86	110.56	120.29
1	H	224	PRO	N-CA-C	-6.84	98.85	111.03
1	C	511	LEU	N-CA-C	-6.81	106.86	114.62
1	D	224	PRO	N-CA-C	-6.77	98.98	111.03
1	B	505	ILE	N-CA-C	6.76	121.50	112.04
1	A	505	ILE	N-CA-C	6.75	121.61	111.89
1	G	560	LEU	N-CA-C	-6.71	103.89	111.14
1	A	474	SER	N-CA-C	-6.70	105.24	113.41
1	H	282	MET	N-CA-C	6.68	116.87	108.45
1	B	282	MET	N-CA-C	6.68	116.86	108.45
1	G	224	PRO	N-CA-C	-6.62	99.25	111.03
1	F	282	MET	N-CA-C	6.62	116.78	108.45
1	B	591	VAL	N-CA-C	-6.61	106.54	111.90
1	G	591	VAL	N-CA-C	-6.57	106.16	111.81
1	F	416	ASP	CA-C-N	-6.56	111.64	119.84
1	F	416	ASP	C-N-CA	-6.56	111.64	119.84
1	E	282	MET	N-CA-C	6.55	116.70	108.45
1	D	505	ILE	N-CA-C	6.55	121.51	113.00
1	A	282	MET	N-CA-C	6.53	116.68	108.45
1	C	505	ILE	N-CA-C	6.53	121.49	113.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	591	VAL	N-CA-C	-6.53	106.61	111.90
1	E	560	LEU	N-CA-C	-6.51	104.11	111.14
1	H	591	VAL	N-CA-C	-6.51	106.21	111.81
1	D	282	MET	N-CA-C	6.51	116.65	108.45
1	E	505	ILE	N-CA-C	6.47	121.42	113.00
1	C	445	ALA	O-C-N	-6.43	114.04	122.59
1	A	188	TYR	N-CA-C	6.40	121.44	112.93
1	C	255	PHE	N-CA-C	6.40	117.91	107.23
1	G	282	MET	N-CA-C	6.39	116.50	108.45
1	G	416	ASP	CA-C-N	-6.37	111.87	119.84
1	G	416	ASP	C-N-CA	-6.37	111.87	119.84
1	C	327	VAL	N-CA-C	6.35	117.27	108.12
1	B	255	PHE	N-CA-C	6.34	117.81	107.23
1	D	416	ASP	CA-C-N	-6.33	111.92	119.84
1	D	416	ASP	C-N-CA	-6.33	111.92	119.84
1	F	651	GLN	N-CA-C	-6.33	105.69	113.41
1	H	341	GLN	N-CA-C	-6.30	104.51	111.82
1	E	327	VAL	N-CA-C	6.30	117.19	108.12
1	H	416	ASP	CA-C-N	-6.29	111.98	119.84
1	H	416	ASP	C-N-CA	-6.29	111.98	119.84
1	A	416	ASP	CA-C-N	-6.28	111.99	119.84
1	A	416	ASP	C-N-CA	-6.28	111.99	119.84
1	B	183	VAL	N-CA-C	6.28	122.39	109.34
1	E	255	PHE	N-CA-C	6.28	117.71	107.23
1	E	183	VAL	N-CA-C	6.26	122.37	109.34
1	H	560	LEU	N-CA-C	-6.25	104.39	111.14
1	E	416	ASP	CA-C-N	-6.21	112.08	119.84
1	E	416	ASP	C-N-CA	-6.21	112.08	119.84
1	E	188	TYR	N-CA-C	6.21	121.18	112.93
1	B	416	ASP	CA-C-N	-6.19	112.10	119.84
1	B	416	ASP	C-N-CA	-6.19	112.10	119.84
1	C	416	ASP	CA-C-N	-6.17	112.13	119.84
1	C	416	ASP	C-N-CA	-6.17	112.13	119.84
1	H	86	LEU	N-CA-C	-6.17	106.02	112.93
1	G	183	VAL	N-CA-C	6.15	122.13	109.34
1	F	505	ILE	N-CA-C	6.14	120.98	113.00
1	H	375	THR	N-CA-C	6.13	118.28	107.61
1	H	327	VAL	N-CA-C	6.13	116.95	108.12
1	C	183	VAL	N-CA-C	6.13	122.08	109.34
1	G	86	LEU	N-CA-C	-6.13	106.07	112.93
1	E	474	SER	N-CA-C	-6.12	105.94	113.41
1	D	560	LEU	N-CA-C	-6.12	104.53	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	183	VAL	N-CA-C	6.12	122.06	109.34
1	B	86	LEU	N-CA-C	-6.11	106.08	112.93
1	C	86	LEU	N-CA-C	-6.10	106.10	112.93
1	A	183	VAL	N-CA-C	6.09	122.02	109.34
1	C	375	THR	N-CA-C	6.08	118.19	107.61
1	D	17	MET	N-CA-C	6.08	117.12	108.74
1	F	86	LEU	N-CA-C	-6.07	106.13	112.93
1	B	375	THR	N-CA-C	6.07	118.17	107.61
1	F	247	ASP	N-CA-C	6.05	123.69	110.80
1	F	188	TYR	N-CA-C	6.03	120.95	112.93
1	B	327	VAL	N-CA-C	6.03	116.80	108.12
1	B	17	MET	N-CA-C	6.03	117.06	108.74
1	C	309	LEU	CA-C-N	-6.03	113.46	122.74
1	C	309	LEU	C-N-CA	-6.03	113.46	122.74
1	C	17	MET	N-CA-C	6.03	117.06	108.74
1	C	474	SER	N-CA-C	-6.03	106.06	113.41
1	B	341	GLN	N-CA-C	-6.01	104.66	112.23
1	E	247	ASP	N-CA-C	6.01	123.60	110.80
1	C	335	ASN	N-CA-C	-6.00	104.43	110.97
1	H	183	VAL	N-CA-C	6.00	121.82	109.34
1	G	188	TYR	N-CA-C	5.99	120.89	112.93
1	D	86	LEU	N-CA-C	-5.98	106.23	112.93
1	E	17	MET	N-CA-C	5.98	116.99	108.74
1	H	247	ASP	N-CA-C	5.98	123.53	110.80
1	H	17	MET	N-CA-C	5.97	116.98	108.74
1	E	375	THR	N-CA-C	5.97	117.99	107.61
1	H	583	THR	N-CA-C	5.96	122.99	109.81
1	C	591	VAL	N-CA-C	-5.96	106.69	111.81
1	E	86	LEU	N-CA-C	-5.96	106.26	112.93
1	B	583	THR	N-CA-C	5.95	122.97	109.81
1	C	560	LEU	N-CA-C	-5.95	104.71	111.14
1	B	560	LEU	N-CA-C	-5.95	104.72	111.14
1	D	247	ASP	N-CA-C	5.94	123.45	110.80
1	A	255	PHE	N-CA-C	5.92	117.12	107.23
1	H	188	TYR	N-CA-C	5.92	120.81	112.93
1	E	591	VAL	N-CA-C	-5.92	106.72	111.81
1	B	247	ASP	N-CA-C	5.91	123.39	110.80
1	A	583	THR	N-CA-C	5.90	122.85	109.81
1	B	474	SER	N-CA-C	-5.90	106.21	113.41
1	G	247	ASP	N-CA-C	5.90	123.36	110.80
1	E	341	GLN	N-CA-C	-5.89	104.81	112.23
1	E	84	GLN	CB-CA-C	-5.89	109.77	116.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	583	THR	N-CA-C	5.87	122.78	109.81
1	B	550	ASN	N-CA-C	5.86	122.75	109.81
1	A	17	MET	N-CA-C	5.85	116.82	108.74
1	A	86	LEU	N-CA-C	-5.85	106.38	112.93
1	B	188	TYR	N-CA-C	5.85	120.71	112.93
1	A	247	ASP	N-CA-C	5.84	123.23	110.80
1	E	309	LEU	CA-C-N	-5.83	113.76	122.74
1	E	309	LEU	C-N-CA	-5.83	113.76	122.74
1	D	651	GLN	N-CA-C	-5.82	106.31	113.41
1	F	474	SER	N-CA-C	-5.82	106.31	113.41
1	H	169	TYR	N-CA-C	-5.82	103.43	111.81
1	B	605	VAL	CB-CA-C	5.82	116.35	110.65
1	G	341	GLN	N-CA-C	-5.82	105.07	111.82
1	F	375	THR	N-CA-C	5.81	117.72	107.61
1	F	84	GLN	CB-CA-C	-5.80	109.86	116.54
1	F	183	VAL	N-CA-C	5.80	121.41	109.34
1	G	255	PHE	N-CA-C	5.80	116.92	107.23
1	F	17	MET	N-CA-C	5.80	116.75	108.74
1	C	247	ASP	N-CA-C	5.80	123.16	110.80
1	H	550	ASN	N-CA-C	5.80	122.63	109.81
1	A	550	ASN	N-CA-C	5.79	122.61	109.81
1	F	550	ASN	N-CA-C	5.79	122.61	109.81
1	G	17	MET	N-CA-C	5.79	116.73	108.74
1	C	550	ASN	N-CA-C	5.79	122.60	109.81
1	G	327	VAL	N-CA-C	5.78	116.44	108.12
1	D	550	ASN	N-CA-C	5.77	122.56	109.81
1	H	84	GLN	CB-CA-C	-5.77	109.91	116.54
1	F	327	VAL	N-CA-C	5.76	116.42	108.12
1	E	550	ASN	N-CA-C	5.76	122.54	109.81
1	A	84	GLN	CB-CA-C	-5.76	109.92	116.54
1	D	474	SER	N-CA-C	-5.75	106.40	113.41
1	G	375	THR	N-CA-C	5.74	117.60	107.61
1	C	84	GLN	CB-CA-C	-5.74	109.94	116.54
1	E	583	THR	N-CA-C	5.74	122.49	109.81
1	G	335	ASN	N-CA-C	-5.74	104.72	110.97
1	C	583	THR	N-CA-C	5.73	122.48	109.81
1	G	474	SER	N-CA-C	-5.72	106.44	113.41
1	H	255	PHE	N-CA-C	5.70	116.75	107.23
1	D	375	THR	N-CA-C	5.70	117.53	107.61
1	D	84	GLN	CB-CA-C	-5.67	110.01	116.54
1	G	84	GLN	CB-CA-C	-5.67	110.02	116.54
1	G	169	TYR	N-CA-C	-5.67	103.64	111.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	583	THR	N-CA-C	5.67	122.33	109.81
1	F	390	PHE	N-CA-C	5.66	121.08	113.72
1	D	327	VAL	N-CA-C	5.66	116.27	108.12
1	E	484	ASP	N-CA-C	5.65	120.30	112.45
1	A	651	GLN	N-CA-C	-5.65	106.52	113.41
1	F	341	GLN	N-CA-C	-5.65	105.27	111.82
1	B	84	GLN	CB-CA-C	-5.64	110.06	116.54
1	A	327	VAL	N-CA-C	5.63	116.22	108.12
1	A	375	THR	N-CA-C	5.63	117.40	107.61
1	G	583	THR	N-CA-C	5.63	122.25	109.81
1	A	169	TYR	N-CA-C	-5.62	103.72	111.81
1	E	169	TYR	N-CA-C	-5.61	103.74	111.81
1	E	651	GLN	N-CA-C	-5.60	106.58	113.41
1	D	341	GLN	N-CA-C	-5.60	105.32	111.82
1	D	188	TYR	N-CA-C	5.59	120.36	112.93
1	A	605	VAL	CB-CA-C	5.58	116.12	110.65
1	C	188	TYR	N-CA-C	5.58	120.34	112.93
1	G	550	ASN	N-CA-C	5.57	122.13	109.81
1	B	645	ARG	N-CA-C	-5.54	106.88	113.97
1	A	64	ILE	N-CA-C	5.53	115.72	110.53
1	A	341	GLN	N-CA-C	-5.53	105.41	111.82
1	E	471	SER	N-CA-C	-5.50	106.62	113.55
1	B	253	VAL	CA-C-O	-5.50	116.34	120.96
1	D	255	PHE	N-CA-C	5.50	116.41	107.23
1	F	255	PHE	N-CA-C	5.50	116.41	107.23
1	B	335	ASN	N-CA-C	-5.48	104.99	110.97
1	C	341	GLN	N-CA-C	-5.48	105.32	112.23
1	C	651	GLN	N-CA-C	-5.47	105.73	112.90
1	C	169	TYR	N-CA-C	-5.45	103.96	111.81
1	C	389	LEU	N-CA-C	5.45	117.54	109.69
1	D	169	TYR	N-CA-C	-5.45	103.97	111.81
1	F	169	TYR	N-CA-C	-5.44	103.97	111.81
1	D	254	LYS	N-CA-C	5.44	117.36	108.55
1	C	253	VAL	CA-C-O	-5.44	116.39	120.96
1	C	610	ASP	O-C-N	5.44	127.88	122.12
1	H	474	SER	N-CA-C	-5.42	106.80	113.41
1	H	605	VAL	CB-CA-C	5.42	115.96	110.65
1	F	253	VAL	CA-C-O	-5.41	116.41	120.96
1	E	605	VAL	CB-CA-C	5.41	115.95	110.65
1	C	605	VAL	CB-CA-C	5.39	115.93	110.65
1	E	335	ASN	N-CA-C	-5.39	105.10	110.97
1	B	251	GLY	N-CA-C	-5.39	100.42	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	232	HIS	N-CA-C	-5.38	106.88	113.50
1	D	471	SER	N-CA-C	-5.37	106.78	113.55
1	F	534	VAL	N-CA-C	5.36	115.56	110.42
1	D	645	ARG	N-CA-C	-5.36	107.11	113.97
1	B	403	LEU	CA-C-N	5.35	126.53	119.84
1	B	403	LEU	C-N-CA	5.35	126.53	119.84
1	A	254	LYS	N-CA-C	5.35	117.21	108.55
1	A	294	ASN	N-CA-C	5.34	112.94	108.13
1	C	484	ASP	N-CA-C	5.32	119.85	112.45
1	B	169	TYR	N-CA-C	-5.31	104.16	111.81
1	B	471	SER	N-CA-C	-5.31	106.86	113.55
1	E	265	LEU	N-CA-C	5.30	117.67	110.35
1	A	484	ASP	N-CA-C	5.30	119.82	112.45
1	C	645	ARG	N-CA-C	-5.30	106.99	113.50
1	H	448	LEU	N-CA-C	-5.28	106.10	112.54
1	G	64	ILE	N-CA-C	5.28	115.49	110.53
1	G	471	SER	N-CA-C	-5.28	106.90	113.55
1	H	294	ASN	N-CA-C	5.27	112.87	108.13
1	A	471	SER	N-CA-C	-5.27	106.91	113.55
1	H	335	ASN	N-CA-C	-5.27	105.23	110.97
1	F	254	LYS	N-CA-C	5.27	117.08	108.55
1	A	403	LEU	CA-C-N	5.26	126.42	119.84
1	A	403	LEU	C-N-CA	5.26	126.42	119.84
1	F	605	VAL	CB-CA-C	5.26	115.80	110.65
1	G	534	VAL	N-CA-C	5.24	115.45	110.42
1	H	403	LEU	CA-C-N	5.24	126.39	119.84
1	H	403	LEU	C-N-CA	5.24	126.39	119.84
1	A	389	LEU	N-CA-C	5.23	117.22	109.69
1	F	471	SER	N-CA-C	-5.22	106.97	113.55
1	E	534	VAL	N-CA-C	5.22	115.43	110.42
1	C	408	GLU	N-CA-C	5.22	121.91	110.80
1	C	471	SER	N-CA-C	-5.21	106.98	113.55
1	G	265	LEU	N-CA-C	5.21	117.54	110.35
1	H	251	GLY	N-CA-C	-5.21	100.83	113.18
1	B	534	VAL	N-CA-C	5.20	115.41	110.42
1	A	501	MET	N-CA-C	-5.20	106.74	114.64
1	D	484	ASP	N-CA-C	5.18	119.65	112.45
1	G	605	VAL	CB-CA-C	5.18	115.72	110.65
1	G	403	LEU	CA-C-N	5.17	126.30	119.84
1	G	403	LEU	C-N-CA	5.17	126.30	119.84
1	A	645	ARG	N-CA-C	-5.16	107.15	113.50
1	C	64	ILE	N-CA-C	5.16	115.38	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	534	VAL	N-CA-C	5.14	115.36	110.42
1	D	403	LEU	CA-C-N	5.13	126.25	119.84
1	D	403	LEU	C-N-CA	5.13	126.25	119.84
1	H	606	ILE	N-CA-CB	5.13	116.45	110.65
1	C	259	LEU	CA-C-N	5.13	126.25	119.84
1	C	259	LEU	C-N-CA	5.13	126.25	119.84
1	F	408	GLU	N-CA-C	5.13	121.72	110.80
1	C	251	GLY	N-CA-C	-5.12	101.03	113.18
1	A	408	GLU	N-CA-C	5.12	121.69	110.80
1	B	259	LEU	CA-C-N	5.11	126.23	119.84
1	B	259	LEU	C-N-CA	5.11	126.23	119.84
1	E	403	LEU	CA-C-N	5.11	126.23	119.84
1	E	403	LEU	C-N-CA	5.11	126.23	119.84
1	C	294	ASN	N-CA-C	5.11	112.73	108.13
1	H	389	LEU	N-CA-C	5.10	117.04	109.69
1	G	408	GLU	N-CA-C	5.10	121.67	110.80
1	F	645	ARG	N-CA-C	-5.10	107.44	113.97
1	A	335	ASN	N-CA-C	-5.09	105.42	110.97
1	B	319	SER	N-CA-C	5.09	121.63	110.80
1	C	179	CYS	N-CA-C	5.08	121.63	110.80
1	E	319	SER	N-CA-C	5.08	121.63	110.80
1	B	389	LEU	N-CA-C	5.08	117.00	109.69
1	H	179	CYS	N-CA-C	5.07	121.61	110.80
1	B	294	ASN	N-CA-C	5.07	112.69	108.13
1	C	501	MET	N-CA-C	-5.06	106.95	114.64
1	E	408	GLU	N-CA-C	5.06	121.58	110.80
1	C	612	LEU	N-CA-C	-5.06	104.75	112.04
1	G	390	PHE	N-CA-C	5.06	120.30	113.72
1	B	457	ASN	N-CA-C	-5.05	107.78	114.04
1	D	152	VAL	N-CA-C	5.05	114.74	106.72
1	D	319	SER	N-CA-C	5.05	121.55	110.80
1	E	406	HIS	N-CA-C	5.04	117.75	110.14
1	D	335	ASN	N-CA-C	-5.04	105.48	110.97
1	G	254	LYS	N-CA-C	5.04	116.71	108.55
1	C	254	LYS	N-CA-C	5.03	116.69	108.55
1	D	259	LEU	CA-C-N	5.02	126.12	119.84
1	D	259	LEU	C-N-CA	5.02	126.12	119.84
1	D	262	PRO	N-CA-C	5.02	119.48	112.26
1	H	534	VAL	N-CA-C	5.01	115.23	110.42
1	C	19	GLU	N-CA-C	5.01	117.92	108.65
1	D	534	VAL	N-CA-C	5.01	115.23	110.42
1	C	319	SER	N-CA-C	5.01	121.47	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	501	MET	N-CA-C	-5.01	107.03	114.64
1	H	64	ILE	N-CA-C	5.01	115.24	110.53
1	D	665	VAL	CB-CA-C	-5.01	103.08	111.29

There are no chirality outliers.

All (86) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	119	GLU	Peptide
1	A	120	GLY	Peptide
1	A	169	TYR	Peptide
1	A	221	PRO	Peptide
1	A	223	LEU	Peptide
1	A	247	ASP	Peptide
1	A	255	PHE	Peptide
1	A	257	SER	Peptide
1	A	260	PRO	Peptide
1	A	389	LEU	Peptide
1	A	587	SER	Peptide
1	B	119	GLU	Peptide
1	B	120	GLY	Peptide
1	B	169	TYR	Peptide
1	B	221	PRO	Peptide
1	B	223	LEU	Peptide
1	B	247	ASP	Peptide
1	B	255	PHE	Peptide
1	B	257	SER	Peptide
1	B	389	LEU	Peptide
1	B	527	GLU	Mainchain
1	B	587	SER	Peptide
1	C	119	GLU	Peptide
1	C	120	GLY	Peptide
1	C	169	TYR	Peptide
1	C	221	PRO	Peptide
1	C	223	LEU	Peptide
1	C	247	ASP	Peptide
1	C	255	PHE	Peptide
1	C	257	SER	Peptide
1	C	389	LEU	Peptide
1	C	587	SER	Peptide
1	D	119	GLU	Peptide
1	D	120	GLY	Peptide

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Mol	Chain	Res	Type	Group
1	D	169	TYR	Peptide
1	D	221	PRO	Peptide
1	D	223	LEU	Peptide
1	D	247	ASP	Peptide
1	D	255	PHE	Peptide
1	D	257	SER	Peptide
1	D	260	PRO	Peptide
1	D	389	LEU	Peptide
1	D	587	SER	Peptide
1	E	119	GLU	Peptide
1	E	120	GLY	Peptide
1	E	169	TYR	Peptide
1	E	221	PRO	Peptide
1	E	223	LEU	Peptide
1	E	247	ASP	Peptide
1	E	255	PHE	Peptide
1	E	257	SER	Peptide
1	E	389	LEU	Peptide
1	E	587	SER	Peptide
1	F	119	GLU	Peptide
1	F	120	GLY	Peptide
1	F	169	TYR	Peptide
1	F	221	PRO	Peptide
1	F	223	LEU	Peptide
1	F	247	ASP	Peptide
1	F	255	PHE	Peptide
1	F	257	SER	Peptide
1	F	260	PRO	Peptide
1	F	389	LEU	Peptide
1	F	587	SER	Peptide
1	G	119	GLU	Peptide
1	G	120	GLY	Peptide
1	G	169	TYR	Peptide
1	G	221	PRO	Peptide
1	G	223	LEU	Peptide
1	G	247	ASP	Peptide
1	G	255	PHE	Peptide
1	G	257	SER	Peptide
1	G	260	PRO	Peptide
1	G	389	LEU	Peptide
1	G	587	SER	Peptide
1	H	119	GLU	Peptide

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Mol	Chain	Res	Type	Group
1	H	120	GLY	Peptide
1	H	169	TYR	Peptide
1	H	221	PRO	Peptide
1	H	223	LEU	Peptide
1	H	247	ASP	Peptide
1	H	255	PHE	Peptide
1	H	257	SER	Peptide
1	H	260	PRO	Peptide
1	H	389	LEU	Peptide
1	H	587	SER	Peptide

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	5048	0	5120	804	3
1	B	5048	0	5120	849	2
1	C	5048	0	5120	870	4
1	D	5048	0	5120	888	0
1	E	5048	0	5120	849	2
1	F	5048	0	5120	843	0
1	G	4369	0	4430	634	0
1	H	4369	0	4430	650	1
All	All	39026	0	39580	6134	6

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 78.

All (6134) 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:E:547:LEU:CD1	1:E:615:THR:HG22	1.18	1.61
1:E:547:LEU:HD13	1:E:615:THR:CG2	1.16	1.54
1:C:496:LYS:CB	1:D:655:TRP:HE1	1.25	1.48
1:A:524:CYS:SG	1:A:643:VAL:HG11	1.55	1.46
1:C:496:LYS:HB2	1:D:655:TRP:NE1	1.23	1.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:226:TRP:CD1	1:H:227:GLN:H	1.44	1.34
1:C:573:ARG:HH12	1:D:573:ARG:NH2	1.26	1.33
1:C:226:TRP:CD1	1:C:227:GLN:H	1.45	1.33
1:C:573:ARG:NH1	1:D:573:ARG:HH22	1.25	1.33
1:D:226:TRP:CD1	1:D:227:GLN:H	1.46	1.33
1:D:434:TRP:CZ3	1:D:568:ARG:HA	1.63	1.32
1:F:226:TRP:CD1	1:F:227:GLN:H	1.45	1.32
1:E:226:TRP:CD1	1:E:227:GLN:H	1.47	1.31
1:B:226:TRP:CD1	1:B:227:GLN:H	1.47	1.31
1:A:226:TRP:CD1	1:A:227:GLN:H	1.49	1.30
1:E:655:TRP:NE1	1:F:496:LYS:HB2	1.48	1.29
1:B:434:TRP:CZ3	1:B:568:ARG:HA	1.67	1.29
1:G:226:TRP:CD1	1:G:227:GLN:H	1.50	1.29
1:A:230:GLN:O	1:A:232:HIS:N	1.66	1.28
1:H:434:TRP:CE3	1:H:568:ARG:HA	1.66	1.28
1:D:230:GLN:O	1:D:232:HIS:N	1.67	1.27
1:C:654:LEU:CD2	1:D:654:LEU:HD21	1.63	1.26
1:G:230:GLN:O	1:G:232:HIS:N	1.68	1.26
1:B:230:GLN:O	1:B:232:HIS:N	1.67	1.26
1:G:475:GLU:HG2	1:G:636:MET:CE	1.67	1.25
1:C:230:GLN:O	1:C:232:HIS:N	1.68	1.25
1:D:187:GLN:HB3	1:D:223:LEU:CD2	1.66	1.24
1:E:496:LYS:HB2	1:F:655:TRP:NE1	1.52	1.24
1:F:230:GLN:O	1:F:232:HIS:N	1.69	1.23
1:E:230:GLN:O	1:E:232:HIS:N	1.70	1.23
1:B:434:TRP:CE3	1:B:568:ARG:HA	1.73	1.22
1:D:434:TRP:CE3	1:D:568:ARG:HA	1.74	1.22
1:E:547:LEU:CD1	1:E:615:THR:CG2	1.86	1.22
1:A:654:LEU:HD21	1:B:654:LEU:CD2	1.68	1.21
1:A:655:TRP:CE3	1:B:654:LEU:HD11	1.74	1.21
1:H:230:GLN:O	1:H:232:HIS:N	1.69	1.21
1:E:246:TYR:HD1	1:E:258:VAL:HB	1.05	1.20
1:E:654:LEU:HD11	1:F:655:TRP:CE3	1.77	1.20
1:A:517:MET:SD	1:A:650:ARG:HG3	1.82	1.19
1:G:434:TRP:CE3	1:G:568:ARG:HA	1.78	1.19
1:A:434:TRP:CE3	1:A:568:ARG:HA	1.76	1.19
1:C:654:LEU:HD21	1:D:654:LEU:CD2	1.73	1.18
1:B:187:GLN:HB3	1:B:223:LEU:HD21	1.24	1.18
1:H:246:TYR:CD1	1:H:258:VAL:HB	1.79	1.18
1:B:246:TYR:CD1	1:B:258:VAL:HB	1.79	1.17
1:H:185:THR:HG23	1:H:187:GLN:HG3	1.18	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:496:LYS:CB	1:F:655:TRP:HE1	1.56	1.17
1:A:187:GLN:HB3	1:A:223:LEU:HD21	1.25	1.17
1:A:496:LYS:HB2	1:B:655:TRP:NE1	1.60	1.17
1:C:536:LYS:HB3	1:C:625:LEU:HD13	1.21	1.17
1:C:655:TRP:NE1	1:D:496:LYS:HB2	1.56	1.17
1:D:246:TYR:CD1	1:D:258:VAL:HB	1.79	1.17
1:A:246:TYR:CD1	1:A:258:VAL:HB	1.79	1.17
1:B:219:PHE:O	1:B:220:ARG:HG2	1.44	1.17
1:F:219:PHE:O	1:F:220:ARG:HG2	1.45	1.17
1:A:655:TRP:HE1	1:B:496:LYS:HB2	1.10	1.16
1:A:185:THR:HG23	1:A:187:GLN:HG3	1.20	1.16
1:C:246:TYR:CD1	1:C:258:VAL:HB	1.80	1.16
1:E:655:TRP:HE1	1:F:496:LYS:CB	1.57	1.16
1:G:246:TYR:CD1	1:G:258:VAL:HB	1.80	1.16
1:F:246:TYR:CD1	1:F:258:VAL:HB	1.80	1.16
1:G:111:PHE:HZ	1:G:572:ARG:HG3	1.00	1.16
1:G:246:TYR:HD1	1:G:258:VAL:HB	1.03	1.16
1:C:246:TYR:HD1	1:C:258:VAL:HB	1.03	1.15
1:E:246:TYR:CD1	1:E:258:VAL:HB	1.80	1.15
1:F:185:THR:HG23	1:F:187:GLN:HG3	1.15	1.15
1:E:118:LYS:HG2	1:E:264:HIS:O	1.46	1.15
1:E:540:LEU:CD1	1:E:622:ALA:HB2	1.77	1.15
1:C:118:LYS:HG2	1:C:264:HIS:O	1.47	1.14
1:C:422:THR:HB	1:C:585:GLY:CA	1.77	1.14
1:C:219:PHE:O	1:C:220:ARG:HG2	1.42	1.14
1:E:187:GLN:HB3	1:E:223:LEU:HD21	1.15	1.14
1:H:563:LEU:HD21	1:H:596:LEU:HB2	1.21	1.14
1:B:479:LEU:HB3	1:B:640:GLU:OE2	1.48	1.14
1:D:219:PHE:O	1:D:220:ARG:HG2	1.47	1.14
1:B:547:LEU:CD1	1:B:614:LYS:HB3	1.75	1.14
1:E:219:PHE:O	1:E:220:ARG:HG2	1.45	1.14
1:C:547:LEU:CD1	1:C:615:THR:HG22	1.78	1.14
1:G:111:PHE:CZ	1:G:572:ARG:HG3	1.81	1.14
1:F:189:LEU:HG	1:F:190:ALA:H	1.10	1.13
1:H:187:GLN:HB3	1:H:223:LEU:HD21	1.26	1.13
1:A:547:LEU:CD1	1:A:615:THR:HG22	1.78	1.13
1:A:486:PHE:HZ	1:A:517:MET:HE2	1.07	1.13
1:B:527:GLU:O	1:B:529:GLU:N	1.82	1.13
1:C:179:CYS:CB	1:C:181:GLU:HG2	1.77	1.13
1:C:187:GLN:HB3	1:C:223:LEU:HD21	1.25	1.13
1:B:434:TRP:HB3	1:B:571:TYR:CD1	1.84	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:646:ARG:HG3	1:C:647:GLN:NE2	1.64	1.12
1:D:185:THR:HG23	1:D:187:GLN:HG3	1.13	1.12
1:D:246:TYR:HD1	1:D:258:VAL:HB	1.03	1.12
1:E:187:GLN:HB3	1:E:223:LEU:CD2	1.78	1.12
1:H:179:CYS:CB	1:H:181:GLU:HG2	1.78	1.12
1:A:476:CYS:SG	1:A:477:GLU:OE2	2.06	1.12
1:D:476:CYS:SG	1:D:477:GLU:OE2	2.06	1.12
1:G:475:GLU:CG	1:G:636:MET:HE1	1.80	1.12
1:B:185:THR:HG23	1:B:187:GLN:HG3	1.16	1.12
1:B:189:LEU:HG	1:B:190:ALA:H	1.09	1.12
1:G:185:THR:HG23	1:G:187:GLN:HG3	1.16	1.12
1:A:179:CYS:CB	1:A:181:GLU:HG2	1.78	1.11
1:D:179:CYS:CB	1:D:181:GLU:HG2	1.79	1.11
1:A:263:ASN:HD21	1:A:265:LEU:HB2	1.16	1.11
1:A:434:TRP:CZ3	1:A:568:ARG:HA	1.86	1.11
1:B:646:ARG:HG3	1:B:647:GLN:HE22	0.95	1.11
1:E:473:THR:HG21	1:E:533:LEU:CD2	1.81	1.11
1:H:110:GLN:O	1:H:111:PHE:HB2	1.49	1.11
1:A:547:LEU:HD13	1:A:615:THR:CG2	1.81	1.11
1:F:179:CYS:CB	1:F:181:GLU:HG2	1.79	1.11
1:H:387:ILE:HD11	1:H:449:GLN:HG3	1.13	1.11
1:A:646:ARG:HG3	1:A:647:GLN:HE22	0.94	1.10
1:F:263:ASN:HD21	1:F:265:LEU:HB2	1.14	1.10
1:H:246:TYR:HD1	1:H:258:VAL:HB	1.03	1.10
1:H:189:LEU:HG	1:H:190:ALA:H	1.14	1.10
1:C:476:CYS:SG	1:C:477:GLU:OE2	2.09	1.10
1:H:134:ARG:HA	1:H:300:PHE:HZ	1.12	1.10
1:B:179:CYS:CB	1:B:181:GLU:HG2	1.81	1.10
1:D:262:PRO:HB3	1:D:409:SER:OG	1.52	1.10
1:F:434:TRP:CE3	1:F:568:ARG:HA	1.86	1.10
1:G:179:CYS:CB	1:G:181:GLU:HG2	1.80	1.10
1:A:646:ARG:HG3	1:A:647:GLN:NE2	1.65	1.10
1:B:246:TYR:HD1	1:B:258:VAL:HB	1.02	1.10
1:F:187:GLN:HB3	1:F:223:LEU:HD21	1.17	1.10
1:F:246:TYR:HD1	1:F:258:VAL:HB	1.04	1.10
1:F:646:ARG:HG3	1:F:647:GLN:HE22	0.95	1.10
1:G:219:PHE:O	1:G:220:ARG:HG2	1.52	1.10
1:C:189:LEU:HG	1:C:190:ALA:H	1.08	1.09
1:C:219:PHE:O	1:C:220:ARG:CG	2.00	1.09
1:C:646:ARG:HG3	1:C:647:GLN:HE22	0.93	1.09
1:E:185:THR:HG23	1:E:187:GLN:HG3	1.15	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:219:PHE:O	1:A:220:ARG:HG2	1.50	1.09
1:C:185:THR:HG23	1:C:187:GLN:HG3	1.15	1.09
1:C:654:LEU:CD2	1:D:654:LEU:CD2	2.28	1.09
1:H:434:TRP:HB3	1:H:571:TYR:CD1	1.87	1.09
1:A:111:PHE:HZ	1:A:572:ARG:HG3	1.15	1.09
1:A:246:TYR:HD1	1:A:258:VAL:HB	1.03	1.09
1:A:496:LYS:CB	1:B:655:TRP:HE1	1.64	1.09
1:B:547:LEU:HD13	1:B:614:LYS:CB	1.82	1.09
1:E:536:LYS:HB3	1:E:625:LEU:HD13	1.21	1.09
1:F:646:ARG:HG3	1:F:647:GLN:NE2	1.66	1.09
1:C:110:GLN:O	1:C:111:PHE:HB2	1.48	1.09
1:G:189:LEU:HG	1:G:190:ALA:H	1.13	1.09
1:D:219:PHE:O	1:D:220:ARG:CG	2.01	1.09
1:E:179:CYS:CB	1:E:181:GLU:HG2	1.80	1.09
1:F:219:PHE:O	1:F:220:ARG:CG	2.01	1.09
1:B:263:ASN:HD21	1:B:265:LEU:HB2	1.18	1.08
1:E:282:MET:HB2	1:E:286:ARG:HG3	1.36	1.08
1:D:434:TRP:HB3	1:D:571:TYR:CD1	1.88	1.08
1:H:219:PHE:O	1:H:220:ARG:HG2	1.51	1.08
1:A:666:ARG:HH12	1:B:502:GLU:HG3	1.15	1.08
1:B:219:PHE:O	1:B:220:ARG:CG	2.01	1.08
1:D:646:ARG:HG3	1:D:647:GLN:NE2	1.66	1.08
1:G:110:GLN:O	1:G:111:PHE:HB2	1.52	1.08
1:B:646:ARG:HG3	1:B:647:GLN:NE2	1.66	1.07
1:D:475:GLU:HG2	1:D:636:MET:HE1	1.35	1.07
1:E:547:LEU:HD13	1:E:615:THR:HG21	1.31	1.07
1:F:473:THR:HG21	1:F:533:LEU:HD22	1.09	1.07
1:A:665:VAL:HG13	1:B:665:VAL:HG13	1.35	1.07
1:E:646:ARG:HG3	1:E:647:GLN:NE2	1.65	1.07
1:D:110:GLN:O	1:D:111:PHE:HB2	1.53	1.07
1:G:434:TRP:CZ3	1:G:568:ARG:HA	1.89	1.07
1:H:570:LEU:HB3	1:H:590:MET:HE2	1.35	1.07
1:C:492:ILE:HG23	1:D:651:GLN:HE22	0.97	1.07
1:E:189:LEU:HG	1:E:190:ALA:H	1.08	1.07
1:F:110:GLN:O	1:F:111:PHE:HB2	1.50	1.07
1:A:189:LEU:HG	1:A:190:ALA:H	1.09	1.07
1:A:434:TRP:HB3	1:A:571:TYR:CD1	1.88	1.07
1:A:521:VAL:HA	1:A:524:CYS:SG	1.95	1.07
1:B:110:GLN:O	1:B:111:PHE:HB2	1.52	1.07
1:B:494:LEU:HD12	1:B:514:TRP:HE3	1.16	1.07
1:H:187:GLN:HB3	1:H:223:LEU:CD2	1.85	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:387:ILE:HD11	1:E:449:GLN:HG3	1.33	1.06
1:H:26:PHE:CE2	1:H:181:GLU:CD	2.33	1.06
1:B:187:GLN:HB3	1:B:223:LEU:CD2	1.85	1.06
1:C:263:ASN:HD21	1:C:265:LEU:HB2	1.17	1.06
1:C:655:TRP:HE1	1:D:496:LYS:HB2	0.93	1.06
1:F:118:LYS:HG2	1:F:264:HIS:O	1.54	1.06
1:D:473:THR:HG21	1:D:533:LEU:HD22	1.22	1.06
1:E:547:LEU:HD12	1:E:615:THR:HG22	1.29	1.06
1:E:646:ARG:HG3	1:E:647:GLN:HE22	0.94	1.06
1:H:434:TRP:CZ3	1:H:568:ARG:HA	1.88	1.06
1:A:282:MET:HB2	1:A:286:ARG:HG3	1.37	1.06
1:G:187:GLN:HB3	1:G:223:LEU:HD21	1.34	1.06
1:A:187:GLN:HB3	1:A:223:LEU:CD2	1.85	1.06
1:A:524:CYS:SG	1:A:643:VAL:CG1	2.43	1.06
1:B:476:CYS:SG	1:B:477:GLU:OE2	2.13	1.06
1:C:547:LEU:HD13	1:C:615:THR:CG2	1.84	1.06
1:F:419:ARG:H	1:F:420:PRO:HD3	1.20	1.06
1:F:497:TYR:CE2	1:F:511:LEU:HD22	1.91	1.06
1:G:187:GLN:HB3	1:G:223:LEU:CD2	1.86	1.06
1:A:570:LEU:HB3	1:A:590:MET:HE2	1.38	1.05
1:D:189:LEU:HG	1:D:190:ALA:H	1.09	1.05
1:F:187:GLN:HB3	1:F:223:LEU:CD2	1.84	1.05
1:A:479:LEU:HD12	1:A:640:GLU:HB3	1.38	1.05
1:C:492:ILE:HG23	1:D:651:GLN:NE2	1.70	1.05
1:E:422:THR:HB	1:E:585:GLY:CA	1.86	1.05
1:G:419:ARG:H	1:G:420:PRO:HD3	1.20	1.05
1:H:473:THR:HG21	1:H:533:LEU:HD22	1.38	1.05
1:A:486:PHE:HZ	1:A:517:MET:CE	1.70	1.05
1:C:434:TRP:CE3	1:C:568:ARG:HA	1.91	1.05
1:D:646:ARG:HG3	1:D:647:GLN:HE22	0.95	1.05
1:H:219:PHE:O	1:H:220:ARG:CG	2.05	1.05
1:H:419:ARG:H	1:H:420:PRO:HD3	1.20	1.05
1:C:187:GLN:HB3	1:C:223:LEU:CD2	1.87	1.05
1:C:419:ARG:H	1:C:420:PRO:HD3	1.20	1.05
1:E:110:GLN:O	1:E:111:PHE:HB2	1.51	1.05
1:A:219:PHE:O	1:A:220:ARG:CG	2.04	1.04
1:E:219:PHE:O	1:E:220:ARG:CG	2.03	1.04
1:G:263:ASN:HD21	1:G:265:LEU:HB2	1.16	1.04
1:H:263:ASN:HD21	1:H:265:LEU:HB2	1.16	1.04
1:B:419:ARG:H	1:B:420:PRO:HD3	1.20	1.04
1:E:134:ARG:HA	1:E:300:PHE:HZ	1.18	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:134:ARG:HA	1:F:300:PHE:HZ	1.18	1.04
1:H:134:ARG:HA	1:H:300:PHE:CZ	1.92	1.04
1:A:533:LEU:HD23	1:A:629:VAL:CG1	1.86	1.04
1:C:434:TRP:HB3	1:C:571:TYR:CD1	1.92	1.04
1:G:282:MET:HB2	1:G:286:ARG:HG3	1.37	1.04
1:B:517:MET:HG3	1:B:646:ARG:HH11	1.22	1.04
1:D:263:ASN:HD21	1:D:265:LEU:HB2	1.17	1.04
1:E:263:ASN:HD21	1:E:265:LEU:HB2	1.20	1.04
1:F:476:CYS:SG	1:F:477:GLU:OE2	2.15	1.04
1:H:26:PHE:CZ	1:H:179:CYS:HB3	1.91	1.04
1:B:179:CYS:HB2	1:B:181:GLU:HG2	1.05	1.04
1:C:533:LEU:HD23	1:C:629:VAL:HG11	1.39	1.04
1:E:547:LEU:HD13	1:E:615:THR:HG23	1.35	1.04
1:E:655:TRP:CE3	1:F:654:LEU:HD11	1.93	1.04
1:H:434:TRP:HZ3	1:H:568:ARG:HG3	1.23	1.04
1:C:533:LEU:HD23	1:C:629:VAL:CG1	1.86	1.03
1:B:282:MET:HB2	1:B:286:ARG:HG3	1.40	1.03
1:D:185:THR:CG2	1:D:187:GLN:HG3	1.89	1.03
1:E:502:GLU:HG3	1:F:666:ARG:NH1	1.73	1.03
1:G:179:CYS:HB2	1:G:181:GLU:HG2	1.04	1.03
1:C:651:GLN:HE22	1:D:492:ILE:HG23	1.18	1.03
1:A:110:GLN:O	1:A:111:PHE:HB2	1.51	1.03
1:A:179:CYS:HB2	1:A:181:GLU:HG2	1.04	1.03
1:C:249:LEU:HD23	1:C:252:ALA:HA	1.40	1.03
1:D:179:CYS:HB2	1:D:181:GLU:HG2	1.04	1.03
1:E:419:ARG:H	1:E:420:PRO:HD3	1.21	1.03
1:F:229:VAL:HG13	1:G:229:VAL:HG13	1.40	1.03
1:F:387:ILE:HD12	1:F:450:GLY:HA2	1.41	1.03
1:A:655:TRP:CE3	1:B:654:LEU:CD1	2.41	1.02
1:E:179:CYS:HB2	1:E:181:GLU:HG2	1.04	1.02
1:F:282:MET:HB2	1:F:286:ARG:HG3	1.37	1.02
1:G:249:LEU:HD23	1:G:252:ALA:HA	1.40	1.02
1:C:111:PHE:HZ	1:C:572:ARG:HG3	1.24	1.02
1:E:249:LEU:HD23	1:E:252:ALA:HA	1.40	1.02
1:A:249:LEU:HD23	1:A:252:ALA:HA	1.41	1.02
1:B:547:LEU:HD13	1:B:614:LYS:HB3	1.06	1.02
1:H:282:MET:HB2	1:H:286:ARG:HG3	1.40	1.02
1:A:654:LEU:CD2	1:B:654:LEU:HD21	1.87	1.02
1:C:492:ILE:CG2	1:D:651:GLN:HE22	1.72	1.02
1:D:249:LEU:HD23	1:D:252:ALA:HA	1.37	1.02
1:D:282:MET:HB2	1:D:286:ARG:HG3	1.37	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:419:ARG:H	1:D:420:PRO:HD3	1.21	1.02
1:E:134:ARG:HA	1:E:300:PHE:CZ	1.95	1.02
1:F:249:LEU:HD23	1:F:252:ALA:HA	1.38	1.02
1:A:419:ARG:H	1:A:420:PRO:HD3	1.20	1.01
1:A:422:THR:HB	1:A:585:GLY:CA	1.89	1.01
1:C:651:GLN:NE2	1:D:492:ILE:HG23	1.73	1.01
1:D:187:GLN:HB3	1:D:223:LEU:HD21	1.05	1.01
1:A:654:LEU:CD2	1:B:654:LEU:CD2	2.38	1.01
1:C:492:ILE:HD13	1:D:651:GLN:HE21	1.24	1.01
1:E:185:THR:CG2	1:E:187:GLN:HG3	1.89	1.01
1:H:118:LYS:HG2	1:H:264:HIS:O	1.58	1.01
1:A:229:VAL:HG13	1:D:229:VAL:HG13	1.39	1.01
1:B:118:LYS:HG2	1:B:264:HIS:O	1.60	1.01
1:B:550:ASN:HD21	1:B:611:GLN:CD	1.67	1.01
1:D:118:LYS:HG2	1:D:264:HIS:O	1.60	1.01
1:E:476:CYS:SG	1:E:477:GLU:OE2	2.19	1.01
1:B:249:LEU:HD23	1:B:252:ALA:HA	1.42	1.01
1:C:262:PRO:HB3	1:C:409:SER:OG	1.61	1.01
1:C:646:ARG:CG	1:C:647:GLN:HE22	1.73	1.01
1:G:219:PHE:O	1:G:220:ARG:CG	2.07	1.01
1:B:476:CYS:HB2	1:B:636:MET:SD	2.01	1.01
1:C:179:CYS:HB2	1:C:181:GLU:HG2	1.03	1.01
1:C:185:THR:CG2	1:C:187:GLN:HG3	1.89	1.01
1:C:521:VAL:HA	1:C:524:CYS:SG	2.01	1.01
1:E:530:VAL:HA	1:E:533:LEU:HD12	1.43	1.01
1:F:179:CYS:HB2	1:F:181:GLU:HG2	1.03	1.01
1:F:226:TRP:CD1	1:F:227:GLN:N	2.28	1.01
1:F:434:TRP:CZ3	1:F:568:ARG:HA	1.94	1.01
1:E:646:ARG:CG	1:E:647:GLN:HE22	1.74	1.00
1:H:179:CYS:HB2	1:H:181:GLU:HG2	1.03	1.00
1:B:185:THR:CG2	1:B:187:GLN:HG3	1.91	1.00
1:C:530:VAL:HA	1:C:533:LEU:HD12	1.43	1.00
1:H:226:TRP:CD1	1:H:227:GLN:N	2.28	1.00
1:C:226:TRP:CD1	1:C:227:GLN:N	2.29	1.00
1:F:646:ARG:CG	1:F:647:GLN:HE22	1.75	1.00
1:F:521:VAL:HA	1:F:524:CYS:SG	2.01	1.00
1:D:530:VAL:HA	1:D:533:LEU:HD12	1.43	1.00
1:F:262:PRO:HB3	1:F:409:SER:OG	1.61	1.00
1:A:118:LYS:HG2	1:A:264:HIS:O	1.61	1.00
1:F:524:CYS:SG	1:F:643:VAL:HG11	2.01	1.00
1:F:536:LYS:HB3	1:F:625:LEU:HD13	1.43	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:249:LEU:HD23	1:H:252:ALA:HA	1.40	1.00
1:C:655:TRP:HE1	1:D:496:LYS:CB	1.75	0.99
1:D:226:TRP:CD1	1:D:227:GLN:N	2.30	0.99
1:A:479:LEU:HB3	1:A:640:GLU:OE2	1.61	0.99
1:C:134:ARG:HA	1:C:300:PHE:HZ	1.21	0.99
1:C:282:MET:HB2	1:C:286:ARG:HG3	1.38	0.99
1:D:536:LYS:O	1:D:625:LEU:HD13	1.60	0.99
1:E:533:LEU:HD23	1:E:629:VAL:HG11	1.44	0.99
1:B:262:PRO:HB3	1:B:409:SER:OG	1.59	0.99
1:D:422:THR:HB	1:D:585:GLY:CA	1.91	0.99
1:G:434:TRP:HB3	1:G:571:TYR:CD1	1.96	0.99
1:F:185:THR:CG2	1:F:187:GLN:HG3	1.90	0.99
1:G:185:THR:CG2	1:G:187:GLN:HG3	1.90	0.99
1:G:530:VAL:HA	1:G:533:LEU:HD12	1.44	0.99
1:A:536:LYS:HB3	1:A:625:LEU:HD13	1.02	0.99
1:E:497:TYR:CE2	1:E:511:LEU:HD22	1.98	0.99
1:A:111:PHE:CZ	1:A:572:ARG:HG3	1.97	0.99
1:B:521:VAL:HA	1:B:524:CYS:SG	2.03	0.99
1:B:646:ARG:CG	1:B:647:GLN:HE22	1.75	0.99
1:C:434:TRP:CZ3	1:C:568:ARG:HA	1.97	0.99
1:B:226:TRP:CD1	1:B:227:GLN:N	2.31	0.99
1:C:479:LEU:HD11	1:C:641:LYS:HG3	1.44	0.99
1:H:111:PHE:HZ	1:H:572:ARG:HG3	1.27	0.99
1:G:359:LEU:HA	1:G:460:ARG:HH12	1.28	0.99
1:B:224:PRO:HG3	1:B:428:ARG:HH22	1.28	0.99
1:E:547:LEU:HD11	1:E:615:THR:HG22	1.41	0.99
1:A:486:PHE:CZ	1:A:517:MET:HE2	1.96	0.99
1:C:654:LEU:HD11	1:D:655:TRP:CE3	1.97	0.98
1:F:530:VAL:HA	1:F:533:LEU:HD12	1.42	0.98
1:A:646:ARG:CG	1:A:647:GLN:HE22	1.75	0.98
1:B:387:ILE:HD12	1:B:450:GLY:HA2	1.45	0.98
1:B:134:ARG:HA	1:B:300:PHE:HZ	1.27	0.98
1:B:494:LEU:HD21	1:B:518:GLU:OE2	1.64	0.98
1:G:473:THR:HG21	1:G:533:LEU:HD22	1.42	0.98
1:C:473:THR:HG21	1:C:533:LEU:CD2	1.93	0.98
1:F:570:LEU:HD23	1:F:590:MET:HG2	1.42	0.98
1:G:387:ILE:HG21	1:G:450:GLY:HA2	1.45	0.98
1:E:226:TRP:CD1	1:E:227:GLN:N	2.30	0.98
1:B:530:VAL:HA	1:B:533:LEU:HD12	1.44	0.98
1:D:26:PHE:CZ	1:D:179:CYS:HB3	1.99	0.98
1:H:185:THR:CG2	1:H:187:GLN:HG3	1.93	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:185:THR:CG2	1:A:187:GLN:HG3	1.94	0.97
1:F:434:TRP:HB3	1:F:571:TYR:CD1	1.99	0.97
1:A:533:LEU:HD23	1:A:629:VAL:HG11	1.46	0.97
1:H:434:TRP:HE3	1:H:568:ARG:HA	1.20	0.97
1:D:646:ARG:CG	1:D:647:GLN:HE22	1.76	0.97
1:H:530:VAL:HA	1:H:533:LEU:HD12	1.43	0.97
1:D:521:VAL:HA	1:D:524:CYS:SG	2.04	0.97
1:E:654:LEU:CD1	1:F:655:TRP:CE3	2.47	0.97
1:A:473:THR:HG21	1:A:533:LEU:HD22	1.46	0.97
1:F:473:THR:HG21	1:F:533:LEU:CD2	1.94	0.97
1:G:475:GLU:HG2	1:G:636:MET:HE1	1.00	0.97
1:A:530:VAL:HA	1:A:533:LEU:HD12	1.45	0.97
1:H:387:ILE:HG21	1:H:450:GLY:HA2	1.41	0.97
1:H:434:TRP:HD1	1:H:435:GLN:N	1.62	0.97
1:C:492:ILE:CG2	1:D:651:GLN:NE2	2.26	0.97
1:E:654:LEU:CD2	1:F:654:LEU:HD21	1.94	0.97
1:G:226:TRP:CD1	1:G:227:GLN:N	2.33	0.97
1:A:536:LYS:CB	1:A:625:LEU:HD13	1.95	0.96
1:F:443:ASP:O	1:F:446:ARG:HB2	1.64	0.96
1:A:547:LEU:HD13	1:A:615:THR:HG22	1.36	0.96
1:C:134:ARG:HA	1:C:300:PHE:CZ	2.00	0.96
1:A:226:TRP:CD1	1:A:227:GLN:N	2.33	0.96
1:C:26:PHE:CZ	1:C:179:CYS:HB3	2.00	0.96
1:B:473:THR:HG21	1:B:533:LEU:HD22	1.45	0.96
1:B:521:VAL:HG13	1:B:643:VAL:CG1	1.95	0.96
1:F:134:ARG:HA	1:F:300:PHE:CZ	2.00	0.96
1:B:434:TRP:HZ3	1:B:568:ARG:HA	1.30	0.96
1:A:134:ARG:HA	1:A:300:PHE:HZ	1.31	0.96
1:A:666:ARG:NH1	1:B:502:GLU:HG3	1.80	0.96
1:A:570:LEU:HB3	1:A:590:MET:CE	1.96	0.96
1:E:434:TRP:HD1	1:E:435:GLN:N	1.64	0.95
1:E:473:THR:HG21	1:E:533:LEU:HD22	1.47	0.95
1:A:563:LEU:HD21	1:A:596:LEU:HB2	1.48	0.95
1:D:441:LYS:HB2	1:D:560:LEU:CD2	1.96	0.95
1:D:434:TRP:CZ3	1:D:568:ARG:CA	2.49	0.95
1:E:262:PRO:HB3	1:E:409:SER:OG	1.66	0.95
1:E:521:VAL:HA	1:E:524:CYS:SG	2.06	0.95
1:B:550:ASN:ND2	1:B:611:GLN:CD	2.25	0.95
1:E:222:PHE:CE2	1:E:225:ASN:HB2	2.02	0.95
1:H:111:PHE:CZ	1:H:572:ARG:HG3	2.00	0.95
1:D:494:LEU:HD12	1:D:514:TRP:HE3	1.31	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:26:PHE:HE2	1:H:181:GLU:CD	1.69	0.95
1:F:111:PHE:HZ	1:F:572:ARG:HG3	1.31	0.95
1:A:262:PRO:HB3	1:A:409:SER:OG	1.66	0.95
1:B:222:PHE:CE2	1:B:225:ASN:HB2	2.02	0.94
1:A:655:TRP:HE3	1:B:654:LEU:HD11	1.31	0.94
1:D:219:PHE:C	1:D:220:ARG:HG3	1.91	0.94
1:B:494:LEU:HD12	1:B:514:TRP:CE3	2.02	0.94
1:H:193:LEU:HD22	1:H:231:TRP:CD1	2.02	0.94
1:A:17:MET:HB3	1:A:32:TRP:HB3	1.50	0.94
1:A:641:LYS:HB3	1:A:645:ARG:HH21	1.33	0.94
1:E:658:LEU:HD12	1:F:658:LEU:HD12	1.49	0.94
1:C:654:LEU:HD21	1:D:654:LEU:HD21	1.38	0.94
1:D:434:TRP:HD1	1:D:435:GLN:N	1.66	0.94
1:F:570:LEU:HB3	1:F:590:MET:CE	1.98	0.94
1:A:222:PHE:CE2	1:A:225:ASN:HB2	2.02	0.94
1:D:222:PHE:CE2	1:D:225:ASN:HB2	2.02	0.94
1:G:434:TRP:HD1	1:G:435:GLN:N	1.66	0.94
1:B:229:VAL:HG13	1:C:229:VAL:HG13	1.50	0.93
1:C:219:PHE:C	1:C:220:ARG:HG3	1.94	0.93
1:D:479:LEU:HD11	1:D:641:LYS:HG3	1.49	0.93
1:E:189:LEU:HG	1:E:190:ALA:N	1.82	0.93
1:G:222:PHE:CE2	1:G:225:ASN:HB2	2.03	0.93
1:H:222:PHE:CE2	1:H:225:ASN:HB2	2.03	0.93
1:A:219:PHE:C	1:A:220:ARG:HG3	1.94	0.93
1:B:134:ARG:HA	1:B:300:PHE:CZ	2.04	0.93
1:C:570:LEU:HB3	1:C:590:MET:HE2	1.51	0.93
1:E:654:LEU:HD21	1:F:654:LEU:CD2	1.98	0.93
1:F:517:MET:HG3	1:F:646:ARG:HH11	1.32	0.93
1:F:570:LEU:HB3	1:F:590:MET:HE2	1.51	0.93
1:F:641:LYS:HB3	1:F:645:ARG:HH21	1.34	0.93
1:H:327:VAL:HG11	1:H:367:LEU:HB2	1.50	0.93
1:C:473:THR:HG21	1:C:533:LEU:HD22	1.48	0.93
1:C:394:LYS:HG3	1:C:613:SER:HB2	1.49	0.92
1:H:434:TRP:HB3	1:H:571:TYR:HD1	1.33	0.92
1:A:658:LEU:HD12	1:B:658:LEU:HD12	1.51	0.92
1:B:434:TRP:CZ3	1:B:568:ARG:CA	2.52	0.92
1:C:497:TYR:CE2	1:C:511:LEU:HD22	2.04	0.92
1:B:434:TRP:HD1	1:B:435:GLN:N	1.67	0.92
1:D:430:TRP:HB3	1:D:571:TYR:HD2	1.30	0.92
1:E:229:VAL:HG13	1:H:229:VAL:HG13	1.49	0.92
1:F:219:PHE:C	1:F:220:ARG:HG3	1.91	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:641:LYS:HB3	1:B:645:ARG:HH21	1.33	0.92
1:E:563:LEU:HD21	1:E:596:LEU:HB2	1.51	0.92
1:F:327:VAL:HG11	1:F:367:LEU:HB2	1.50	0.92
1:E:434:TRP:HB3	1:E:571:TYR:CD1	2.05	0.92
1:D:434:TRP:HZ3	1:D:568:ARG:HA	1.26	0.91
1:B:17:MET:HB3	1:B:32:TRP:HB3	1.52	0.91
1:E:219:PHE:C	1:E:220:ARG:HG3	1.94	0.91
1:B:387:ILE:HG21	1:B:450:GLY:HA2	1.52	0.91
1:D:641:LYS:HB3	1:D:645:ARG:HH21	1.33	0.91
1:E:540:LEU:HD11	1:E:622:ALA:HB2	1.50	0.91
1:D:475:GLU:CG	1:D:636:MET:HE1	1.99	0.91
1:A:540:LEU:CD1	1:A:622:ALA:HB2	2.00	0.91
1:G:327:VAL:HG11	1:G:367:LEU:HB2	1.49	0.91
1:D:17:MET:HB3	1:D:32:TRP:HB3	1.50	0.91
1:A:153:LEU:HA	1:A:162:HIS:HB3	1.53	0.91
1:A:486:PHE:CZ	1:A:517:MET:CE	2.52	0.91
1:C:222:PHE:CE2	1:C:225:ASN:HB2	2.05	0.91
1:F:17:MET:HB3	1:F:32:TRP:HB3	1.53	0.91
1:B:219:PHE:C	1:B:220:ARG:HG3	1.91	0.91
1:E:153:LEU:HD23	1:E:162:HIS:ND1	1.85	0.91
1:A:179:CYS:HB2	1:A:181:GLU:CG	1.99	0.91
1:B:327:VAL:HG11	1:B:367:LEU:HB2	1.52	0.91
1:E:17:MET:HB3	1:E:32:TRP:HB3	1.51	0.91
1:F:387:ILE:CD1	1:F:450:GLY:HA2	1.99	0.91
1:H:26:PHE:HE2	1:H:181:GLU:OE1	1.54	0.91
1:A:570:LEU:CB	1:A:590:MET:HE2	2.01	0.91
1:D:387:ILE:HD11	1:D:449:GLN:HG3	1.52	0.91
1:A:327:VAL:HG11	1:A:367:LEU:HB2	1.50	0.90
1:C:179:CYS:HB2	1:C:181:GLU:CG	1.98	0.90
1:E:387:ILE:HD11	1:E:449:GLN:CG	2.00	0.90
1:G:17:MET:HB3	1:G:32:TRP:HB3	1.51	0.90
1:E:519:GLN:HA	1:E:522:GLU:HB2	1.52	0.90
1:G:219:PHE:C	1:G:220:ARG:HG3	1.97	0.90
1:B:153:LEU:HA	1:B:162:HIS:HB3	1.53	0.90
1:B:550:ASN:ND2	1:B:611:GLN:OE1	2.05	0.90
1:C:153:LEU:HD23	1:C:162:HIS:ND1	1.86	0.90
1:C:327:VAL:HG11	1:C:367:LEU:HB2	1.53	0.90
1:F:144:ARG:HD3	1:F:169:TYR:O	1.71	0.90
1:D:134:ARG:HA	1:D:300:PHE:HZ	1.37	0.90
1:E:570:LEU:HB3	1:E:590:MET:HE2	1.54	0.90
1:H:153:LEU:HA	1:H:162:HIS:HB3	1.53	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:519:GLN:HA	1:F:522:GLU:HB2	1.53	0.90
1:G:339:TRP:HA	1:G:342:GLN:HB2	1.52	0.90
1:F:387:ILE:HG21	1:F:450:GLY:HA2	1.51	0.90
1:A:150:ASN:HD22	1:A:167:LEU:HD12	1.37	0.90
1:C:153:LEU:HA	1:C:162:HIS:HB3	1.54	0.90
1:F:222:PHE:CE2	1:F:225:ASN:HB2	2.06	0.90
1:C:17:MET:HB3	1:C:32:TRP:HB3	1.51	0.90
1:D:327:VAL:HG11	1:D:367:LEU:HB2	1.51	0.90
1:E:654:LEU:CD2	1:F:654:LEU:CD2	2.50	0.90
1:G:125:LEU:HA	1:G:162:HIS:NE2	1.87	0.90
1:A:527:GLU:O	1:A:529:GLU:N	2.05	0.90
1:C:563:LEU:HD21	1:C:596:LEU:HB2	1.54	0.90
1:D:153:LEU:HA	1:D:162:HIS:HB3	1.54	0.90
1:H:219:PHE:C	1:H:220:ARG:HG3	1.95	0.90
1:A:434:TRP:HB3	1:A:571:TYR:HD1	1.37	0.89
1:B:26:PHE:CZ	1:B:179:CYS:HB3	2.06	0.89
1:B:230:GLN:C	1:B:232:HIS:H	1.80	0.89
1:C:419:ARG:HA	1:C:587:SER:OG	1.72	0.89
1:E:641:LYS:HB3	1:E:645:ARG:HH21	1.33	0.89
1:E:651:GLN:HE22	1:F:492:ILE:HG23	1.33	0.89
1:F:226:TRP:CG	1:F:227:GLN:H	1.90	0.89
1:H:17:MET:HB3	1:H:32:TRP:HB3	1.52	0.89
1:C:272:LYS:HG2	1:C:273:LEU:N	1.87	0.89
1:E:339:TRP:HA	1:E:342:GLN:HB2	1.54	0.89
1:F:153:LEU:HA	1:F:162:HIS:HB3	1.52	0.89
1:F:339:TRP:HA	1:F:342:GLN:HB2	1.52	0.89
1:F:434:TRP:HD1	1:F:435:GLN:N	1.70	0.89
1:F:153:LEU:HD23	1:F:162:HIS:ND1	1.86	0.89
1:A:536:LYS:HB3	1:A:625:LEU:CD1	1.97	0.89
1:D:18:LYS:HZ2	1:D:33:ILE:HD12	1.38	0.89
1:C:339:TRP:HA	1:C:342:GLN:HB2	1.55	0.89
1:D:153:LEU:HD23	1:D:162:HIS:ND1	1.88	0.89
1:H:434:TRP:CZ3	1:H:568:ARG:HG3	2.07	0.89
1:E:144:ARG:HD3	1:E:169:TYR:O	1.73	0.89
1:E:153:LEU:HA	1:E:162:HIS:HB3	1.52	0.89
1:E:272:LYS:HG2	1:E:273:LEU:N	1.87	0.89
1:B:111:PHE:HZ	1:B:572:ARG:HG3	1.34	0.89
1:C:434:TRP:HD1	1:C:435:GLN:N	1.70	0.89
1:E:118:LYS:CG	1:E:264:HIS:O	2.18	0.89
1:E:179:CYS:HB2	1:E:181:GLU:CG	2.00	0.89
1:F:230:GLN:C	1:F:232:HIS:H	1.81	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:444:CYS:C	1:F:446:ARG:H	1.80	0.89
1:H:125:LEU:HA	1:H:162:HIS:NE2	1.87	0.89
1:H:339:TRP:HA	1:H:342:GLN:HB2	1.53	0.89
1:A:189:LEU:HG	1:A:190:ALA:N	1.82	0.89
1:A:434:TRP:HE3	1:A:568:ARG:HA	1.36	0.89
1:B:153:LEU:HD23	1:B:162:HIS:ND1	1.87	0.89
1:D:179:CYS:HB2	1:D:181:GLU:CG	1.99	0.89
1:G:153:LEU:HA	1:G:162:HIS:HB3	1.54	0.89
1:G:153:LEU:HD23	1:G:162:HIS:ND1	1.86	0.89
1:C:459:LEU:HD11	1:C:548:GLN:OE1	1.73	0.89
1:A:576:GLU:OE2	1:B:573:ARG:NH2	2.06	0.88
1:B:519:GLN:HA	1:B:522:GLU:HB2	1.53	0.88
1:C:519:GLN:HA	1:C:522:GLU:HB2	1.53	0.88
1:H:153:LEU:HD23	1:H:162:HIS:ND1	1.87	0.88
1:A:502:GLU:HG3	1:B:666:ARG:NH1	1.89	0.88
1:A:579:ARG:NH2	1:D:580:ASP:HB3	1.88	0.88
1:B:144:ARG:HD3	1:B:169:TYR:O	1.73	0.88
1:C:651:GLN:NE2	1:D:492:ILE:CG2	2.35	0.88
1:D:144:ARG:HD3	1:D:169:TYR:O	1.74	0.88
1:D:339:TRP:HA	1:D:342:GLN:HB2	1.55	0.88
1:E:230:GLN:C	1:E:232:HIS:H	1.81	0.88
1:F:125:LEU:HA	1:F:162:HIS:NE2	1.87	0.88
1:F:529:GLU:HG3	1:F:633:MET:HE1	1.52	0.88
1:E:319:SER:OG	1:E:403:LEU:HB2	1.73	0.88
1:G:570:LEU:HB3	1:G:590:MET:HE2	1.54	0.88
1:C:480:LYS:CE	1:C:527:GLU:HB2	2.03	0.88
1:G:144:ARG:HD3	1:G:169:TYR:O	1.73	0.88
1:A:144:ARG:HD3	1:A:169:TYR:O	1.73	0.88
1:C:219:PHE:C	1:C:220:ARG:CG	2.43	0.88
1:C:230:GLN:C	1:C:232:HIS:H	1.81	0.88
1:C:658:LEU:HD12	1:D:658:LEU:HD12	1.56	0.88
1:B:125:LEU:HA	1:B:162:HIS:NE2	1.87	0.88
1:B:339:TRP:HA	1:B:342:GLN:HB2	1.54	0.88
1:C:641:LYS:HB3	1:C:645:ARG:HH21	1.36	0.88
1:F:533:LEU:CD2	1:F:629:VAL:HG13	2.04	0.88
1:D:519:GLN:HA	1:D:522:GLU:HB2	1.53	0.88
1:H:144:ARG:HD3	1:H:169:TYR:O	1.74	0.88
1:C:111:PHE:CZ	1:C:572:ARG:HG3	2.09	0.88
1:C:118:LYS:CG	1:C:264:HIS:O	2.21	0.88
1:D:226:TRP:CG	1:D:227:GLN:H	1.92	0.88
1:E:125:LEU:HA	1:E:162:HIS:NE2	1.88	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:189:LEU:HG	1:G:190:ALA:N	1.86	0.88
1:A:434:TRP:HD1	1:A:435:GLN:N	1.69	0.87
1:C:235:VAL:HG11	1:C:243:ILE:N	1.88	0.87
1:D:125:LEU:HA	1:D:162:HIS:NE2	1.88	0.87
1:F:235:VAL:HG11	1:F:243:ILE:N	1.88	0.87
1:A:529:GLU:HG3	1:A:633:MET:HE1	1.55	0.87
1:C:144:ARG:HD3	1:C:169:TYR:O	1.72	0.87
1:C:648:GLU:HB3	1:D:492:ILE:HD12	1.55	0.87
1:D:235:VAL:HG11	1:D:243:ILE:N	1.88	0.87
1:E:26:PHE:CZ	1:E:179:CYS:HB3	2.09	0.87
1:E:327:VAL:HG11	1:E:367:LEU:HB2	1.54	0.87
1:G:230:GLN:C	1:G:232:HIS:H	1.81	0.87
1:H:230:GLN:C	1:H:232:HIS:H	1.81	0.87
1:A:519:GLN:HA	1:A:522:GLU:HB2	1.54	0.87
1:C:368:THR:HA	1:C:371:VAL:HG23	1.57	0.87
1:H:179:CYS:HB2	1:H:181:GLU:CG	1.99	0.87
1:A:339:TRP:HA	1:A:342:GLN:HB2	1.54	0.87
1:D:189:LEU:HG	1:D:190:ALA:N	1.83	0.87
1:E:219:PHE:C	1:E:220:ARG:CG	2.45	0.87
1:F:179:CYS:HB2	1:F:181:GLU:CG	1.99	0.87
1:F:189:LEU:HG	1:F:190:ALA:N	1.85	0.87
1:E:434:TRP:CE3	1:E:568:ARG:HA	2.09	0.87
1:F:570:LEU:CB	1:F:590:MET:HE2	2.04	0.87
1:E:394:LYS:HG3	1:E:613:SER:HB2	1.56	0.87
1:A:153:LEU:HD23	1:A:162:HIS:ND1	1.88	0.87
1:B:246:TYR:HD1	1:B:258:VAL:CB	1.88	0.87
1:B:494:LEU:CD2	1:B:518:GLU:OE2	2.23	0.87
1:G:150:ASN:HD22	1:G:167:LEU:HD12	1.39	0.87
1:H:536:LYS:O	1:H:625:LEU:HD13	1.75	0.87
1:H:570:LEU:HB3	1:H:590:MET:CE	2.04	0.87
1:C:655:TRP:CE3	1:D:654:LEU:HD11	2.10	0.87
1:E:536:LYS:CB	1:E:625:LEU:HD13	2.04	0.87
1:B:517:MET:HG3	1:B:646:ARG:NH1	1.89	0.86
1:F:219:PHE:C	1:F:220:ARG:CG	2.45	0.86
1:H:235:VAL:HG11	1:H:243:ILE:N	1.89	0.86
1:B:500:GLN:HB3	1:B:505:ILE:HG12	1.57	0.86
1:C:644:VAL:HA	1:C:647:GLN:HE21	1.40	0.86
1:D:563:LEU:HD23	1:D:597:ALA:HB2	1.58	0.86
1:E:368:THR:HA	1:E:371:VAL:HG23	1.57	0.86
1:B:226:TRP:CG	1:B:227:GLN:H	1.93	0.86
1:H:134:ARG:HB2	1:H:300:PHE:CE1	2.10	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:134:ARG:HB2	1:H:300:PHE:HE1	1.37	0.86
1:H:571:TYR:CZ	1:H:590:MET:SD	2.69	0.86
1:A:134:ARG:HA	1:A:300:PHE:CZ	2.09	0.86
1:D:230:GLN:C	1:D:232:HIS:H	1.80	0.86
1:D:644:VAL:HA	1:D:647:GLN:HE21	1.39	0.86
1:H:226:TRP:CG	1:H:227:GLN:H	1.93	0.86
1:A:230:GLN:C	1:A:232:HIS:H	1.81	0.86
1:E:462:ASN:HD21	1:E:540:LEU:HB2	1.40	0.86
1:F:368:THR:HA	1:F:371:VAL:HG23	1.55	0.86
1:B:189:LEU:HG	1:B:190:ALA:N	1.83	0.86
1:G:434:TRP:HZ3	1:G:568:ARG:HG3	1.40	0.86
1:H:134:ARG:CA	1:H:300:PHE:HZ	1.87	0.86
1:H:150:ASN:HD22	1:H:167:LEU:HD12	1.41	0.86
1:A:368:THR:HA	1:A:371:VAL:HG23	1.57	0.86
1:B:235:VAL:HG11	1:B:243:ILE:N	1.90	0.86
1:D:497:TYR:CE2	1:D:511:LEU:HD22	2.10	0.86
1:E:473:THR:HG21	1:E:533:LEU:HD21	1.57	0.86
1:E:662:CYS:SG	1:F:661:ALA:HB1	2.16	0.86
1:F:272:LYS:HG2	1:F:273:LEU:N	1.88	0.86
1:F:644:VAL:HA	1:F:647:GLN:HE21	1.41	0.86
1:B:644:VAL:HA	1:B:647:GLN:HE21	1.40	0.86
1:G:368:THR:HA	1:G:371:VAL:HG23	1.57	0.86
1:G:434:TRP:HE3	1:G:568:ARG:HA	1.37	0.86
1:E:644:VAL:HA	1:E:647:GLN:HE21	1.41	0.86
1:C:497:TYR:CD2	1:C:497:TYR:O	2.28	0.85
1:E:226:TRP:CG	1:E:227:GLN:H	1.94	0.85
1:E:497:TYR:CD2	1:E:497:TYR:O	2.29	0.85
1:A:235:VAL:HG11	1:A:243:ILE:N	1.90	0.85
1:B:368:THR:HA	1:B:371:VAL:HG23	1.57	0.85
1:C:422:THR:HB	1:C:585:GLY:HA2	1.57	0.85
1:F:150:ASN:HD22	1:F:167:LEU:HD12	1.41	0.85
1:C:226:TRP:CG	1:C:227:GLN:H	1.94	0.85
1:E:235:VAL:HG11	1:E:243:ILE:N	1.90	0.85
1:E:658:LEU:CD1	1:F:658:LEU:HA	2.06	0.85
1:H:563:LEU:HD21	1:H:596:LEU:CB	2.07	0.85
1:A:497:TYR:O	1:A:497:TYR:CD2	2.30	0.85
1:B:394:LYS:HG2	1:B:401:ILE:N	1.91	0.85
1:C:125:LEU:HA	1:C:162:HIS:NE2	1.91	0.85
1:D:246:TYR:HD1	1:D:258:VAL:CB	1.89	0.85
1:E:111:PHE:HZ	1:E:572:ARG:HG3	1.41	0.85
1:D:187:GLN:CB	1:D:223:LEU:HD21	2.01	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:434:TRP:HZ3	1:B:568:ARG:CA	1.88	0.85
1:B:219:PHE:C	1:B:220:ARG:CG	2.44	0.85
1:B:434:TRP:HB3	1:B:571:TYR:HD1	1.40	0.85
1:B:497:TYR:CD2	1:B:497:TYR:O	2.30	0.85
1:B:500:GLN:CB	1:B:505:ILE:HG12	2.06	0.85
1:C:148:PRO:HD3	1:C:188:TYR:CE2	2.10	0.85
1:G:226:TRP:CG	1:G:227:GLN:H	1.94	0.85
1:H:387:ILE:HD11	1:H:449:GLN:CG	2.03	0.85
1:H:563:LEU:CD2	1:H:596:LEU:HB2	2.07	0.85
1:A:125:LEU:HA	1:A:162:HIS:NE2	1.90	0.85
1:D:368:THR:HA	1:D:371:VAL:HG23	1.57	0.85
1:C:480:LYS:HE3	1:C:527:GLU:HB2	1.57	0.85
1:A:510:LEU:HD13	1:A:653:GLU:O	1.77	0.85
1:A:644:VAL:HA	1:A:647:GLN:HE21	1.41	0.85
1:B:26:PHE:CE2	1:B:181:GLU:CD	2.55	0.85
1:D:150:ASN:HD22	1:D:167:LEU:HD12	1.42	0.85
1:D:434:TRP:HZ3	1:D:568:ARG:CA	1.85	0.85
1:A:502:GLU:HG3	1:B:666:ARG:HH11	1.42	0.84
1:B:387:ILE:CD1	1:B:450:GLY:HA2	2.05	0.84
1:C:189:LEU:HG	1:C:190:ALA:N	1.81	0.84
1:D:272:LYS:HG2	1:D:273:LEU:N	1.91	0.84
1:D:497:TYR:CD2	1:D:497:TYR:O	2.30	0.84
1:H:153:LEU:HD23	1:H:162:HIS:CG	2.12	0.84
1:H:368:THR:HA	1:H:371:VAL:HG23	1.56	0.84
1:C:533:LEU:CD2	1:C:629:VAL:CG1	2.54	0.84
1:E:153:LEU:HD23	1:E:162:HIS:CG	2.12	0.84
1:B:111:PHE:CZ	1:B:572:ARG:HG3	2.12	0.84
1:C:150:ASN:HD22	1:C:167:LEU:HD12	1.40	0.84
1:F:357:SER:HA	1:F:453:THR:HB	1.58	0.84
1:F:503:PHE:O	1:F:505:ILE:HG13	1.77	0.84
1:C:153:LEU:HD23	1:C:162:HIS:CG	2.12	0.84
1:E:26:PHE:CE2	1:E:181:GLU:CD	2.56	0.84
1:E:655:TRP:CE3	1:F:654:LEU:CD1	2.59	0.84
1:G:430:TRP:CE3	1:G:574:LEU:HD22	2.12	0.84
1:B:153:LEU:HD23	1:B:162:HIS:CG	2.13	0.84
1:E:170:ALA:O	1:E:172:GLU:N	2.11	0.84
1:H:434:TRP:CD1	1:H:435:GLN:N	2.45	0.84
1:H:402:SER:HA	1:H:609:TYR:CG	2.11	0.84
1:D:119:GLU:CB	1:D:121:PRO:HD2	2.08	0.84
1:E:134:ARG:HB2	1:E:300:PHE:HE1	1.43	0.84
1:E:492:ILE:HD13	1:F:651:GLN:HE21	1.42	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:235:VAL:HG11	1:G:243:ILE:N	1.91	0.84
1:H:246:TYR:HD1	1:H:258:VAL:CB	1.89	0.84
1:F:480:LYS:NZ	1:F:527:GLU:HB2	1.92	0.84
1:A:533:LEU:HD23	1:A:629:VAL:HG13	1.59	0.84
1:D:536:LYS:HB3	1:D:625:LEU:HD13	1.60	0.84
1:A:654:LEU:HD21	1:B:654:LEU:HD21	1.46	0.83
1:A:654:LEU:HD21	1:B:654:LEU:HD22	1.59	0.83
1:A:153:LEU:HD23	1:A:162:HIS:CG	2.13	0.83
1:E:249:LEU:HG	1:E:253:VAL:O	1.78	0.83
1:F:153:LEU:HD23	1:F:162:HIS:CG	2.13	0.83
1:B:394:LYS:HE2	1:B:401:ILE:HA	1.59	0.83
1:G:153:LEU:HD23	1:G:162:HIS:CG	2.13	0.83
1:G:246:TYR:HD1	1:G:258:VAL:CB	1.89	0.83
1:A:226:TRP:CG	1:A:227:GLN:H	1.96	0.83
1:B:150:ASN:HD22	1:B:167:LEU:HD12	1.41	0.83
1:A:148:PRO:HD3	1:A:188:TYR:CE2	2.14	0.83
1:D:219:PHE:C	1:D:220:ARG:CG	2.46	0.83
1:E:148:PRO:HD3	1:E:188:TYR:CE2	2.13	0.83
1:F:118:LYS:CG	1:F:264:HIS:O	2.26	0.83
1:H:219:PHE:C	1:H:220:ARG:CG	2.49	0.83
1:C:153:LEU:CD2	1:C:162:HIS:ND1	2.42	0.83
1:D:547:LEU:HD13	1:D:615:THR:HG22	1.60	0.83
1:E:150:ASN:HD22	1:E:167:LEU:HD12	1.41	0.83
1:F:220:ARG:HH12	1:F:223:LEU:HD22	1.43	0.83
1:G:272:LYS:HG2	1:G:273:LEU:N	1.93	0.83
1:B:217:THR:OG1	1:B:218:GLY:N	2.04	0.83
1:C:462:ASN:HD21	1:C:540:LEU:HB2	1.43	0.83
1:C:502:GLU:HG3	1:D:666:ARG:NH1	1.92	0.83
1:A:433:ILE:HB	1:A:571:TYR:CZ	2.14	0.83
1:A:496:LYS:HB2	1:B:655:TRP:HE1	0.75	0.83
1:C:26:PHE:HE2	1:C:181:GLU:OE1	1.62	0.83
1:F:148:PRO:HD3	1:F:188:TYR:CE2	2.12	0.83
1:H:189:LEU:HG	1:H:190:ALA:N	1.89	0.83
1:H:272:LYS:HG2	1:H:273:LEU:N	1.92	0.83
1:A:42:ALA:O	1:A:95:ALA:HA	1.79	0.83
1:D:153:LEU:HD23	1:D:162:HIS:CG	2.13	0.83
1:H:422:THR:HB	1:H:585:GLY:CA	2.08	0.83
1:C:540:LEU:CD1	1:C:622:ALA:HB2	2.09	0.83
1:C:655:TRP:CE3	1:D:654:LEU:CD1	2.61	0.83
1:D:441:LYS:HB2	1:D:560:LEU:HD22	1.60	0.83
1:E:26:PHE:HE2	1:E:181:GLU:OE1	1.61	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:153:LEU:CD2	1:E:162:HIS:ND1	2.41	0.83
1:F:263:ASN:ND2	1:F:265:LEU:HB2	1.93	0.83
1:F:422:THR:HB	1:F:585:GLY:CA	2.09	0.83
1:C:263:ASN:ND2	1:C:265:LEU:HB2	1.94	0.82
1:D:473:THR:HG21	1:D:533:LEU:CD2	2.07	0.82
1:G:263:ASN:ND2	1:G:265:LEU:HB2	1.95	0.82
1:G:475:GLU:OE2	1:G:637:ARG:HG3	1.79	0.82
1:A:236:ARG:NH2	1:D:231:TRP:CE3	2.47	0.82
1:B:521:VAL:HG13	1:B:643:VAL:HG12	1.59	0.82
1:C:245:VAL:HG12	1:C:246:TYR:H	1.44	0.82
1:C:515:ARG:HA	1:C:518:GLU:CD	2.04	0.82
1:A:357:SER:HB3	1:A:453:THR:HB	1.60	0.82
1:D:473:THR:CG2	1:D:533:LEU:HD22	2.09	0.82
1:E:533:LEU:HD23	1:E:629:VAL:CG1	2.10	0.82
1:F:500:GLN:HB3	1:F:505:ILE:HG12	1.61	0.82
1:G:402:SER:HA	1:G:609:TYR:CG	2.14	0.82
1:F:249:LEU:HG	1:F:253:VAL:O	1.78	0.82
1:F:521:VAL:HG13	1:F:643:VAL:HG12	1.61	0.82
1:G:170:ALA:O	1:G:172:GLU:N	2.11	0.82
1:D:570:LEU:CD2	1:D:590:MET:HE2	2.08	0.82
1:E:217:THR:OG1	1:E:218:GLY:N	2.08	0.82
1:F:246:TYR:HD1	1:F:258:VAL:CB	1.89	0.82
1:F:387:ILE:HD12	1:F:450:GLY:CA	2.08	0.82
1:B:148:PRO:HD3	1:B:188:TYR:CE2	2.15	0.82
1:E:422:THR:HB	1:E:585:GLY:C	2.03	0.82
1:G:219:PHE:C	1:G:220:ARG:CG	2.51	0.82
1:H:153:LEU:CD2	1:H:162:HIS:ND1	2.43	0.82
1:B:42:ALA:O	1:B:95:ALA:HA	1.79	0.82
1:C:430:TRP:HB3	1:C:571:TYR:HD2	1.45	0.82
1:D:148:PRO:HD3	1:D:188:TYR:CE2	2.14	0.82
1:D:387:ILE:HG21	1:D:450:GLY:HA2	1.60	0.82
1:H:263:ASN:ND2	1:H:265:LEU:HB2	1.94	0.82
1:C:119:GLU:CB	1:C:121:PRO:HD2	2.09	0.82
1:G:153:LEU:CD2	1:G:162:HIS:ND1	2.43	0.82
1:A:231:TRP:CE3	1:D:236:ARG:NH2	2.48	0.82
1:B:430:TRP:HB3	1:B:571:TYR:HD2	1.44	0.82
1:E:651:GLN:HE21	1:F:492:ILE:HD13	1.43	0.82
1:B:540:LEU:CD2	1:B:621:LYS:NZ	2.42	0.82
1:D:358:GLY:O	1:D:359:LEU:HB2	1.80	0.82
1:E:42:ALA:O	1:E:95:ALA:HA	1.78	0.82
1:F:134:ARG:HB2	1:F:300:PHE:CE1	2.15	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:220:ARG:HH12	1:G:223:LEU:HD22	1.44	0.82
1:H:253:VAL:HB	1:H:255:PHE:CZ	2.15	0.82
1:A:263:ASN:ND2	1:A:265:LEU:HB2	1.94	0.81
1:B:153:LEU:CD2	1:B:162:HIS:ND1	2.43	0.81
1:B:501:MET:HA	1:B:505:ILE:HD13	1.62	0.81
1:E:387:ILE:CD1	1:E:449:GLN:HG3	2.10	0.81
1:G:111:PHE:HZ	1:G:572:ARG:CG	1.90	0.81
1:G:179:CYS:HB2	1:G:181:GLU:CG	1.99	0.81
1:G:217:THR:OG1	1:G:218:GLY:N	2.12	0.81
1:G:473:THR:CG2	1:G:633:MET:HG3	2.10	0.81
1:H:262:PRO:HB3	1:H:409:SER:OG	1.80	0.81
1:A:170:ALA:O	1:A:172:GLU:N	2.13	0.81
1:A:249:LEU:HG	1:A:253:VAL:O	1.80	0.81
1:B:479:LEU:C	1:B:640:GLU:OE2	2.24	0.81
1:B:527:GLU:C	1:B:529:GLU:H	1.87	0.81
1:D:42:ALA:O	1:D:95:ALA:HA	1.80	0.81
1:A:533:LEU:CD2	1:A:629:VAL:CG1	2.57	0.81
1:D:153:LEU:CD2	1:D:162:HIS:ND1	2.44	0.81
1:F:18:LYS:HZ2	1:F:33:ILE:HD12	1.44	0.81
1:F:42:ALA:O	1:F:95:ALA:HA	1.80	0.81
1:F:220:ARG:NH1	1:F:223:LEU:HD22	1.95	0.81
1:F:282:MET:CB	1:F:286:ARG:HG3	2.11	0.81
1:G:282:MET:CB	1:G:286:ARG:HG3	2.11	0.81
1:D:322:VAL:HG12	1:D:323:HIS:H	1.43	0.81
1:E:253:VAL:HB	1:E:255:PHE:CZ	2.15	0.81
1:C:42:ALA:O	1:C:95:ALA:HA	1.80	0.81
1:C:655:TRP:CD1	1:D:496:LYS:HB2	2.16	0.81
1:E:134:ARG:CA	1:E:300:PHE:HZ	1.94	0.81
1:E:434:TRP:CD1	1:E:435:GLN:N	2.48	0.81
1:A:65:MET:HE3	1:A:96:MET:HE1	1.63	0.81
1:B:170:ALA:O	1:B:172:GLU:N	2.14	0.81
1:B:272:LYS:HG2	1:B:273:LEU:N	1.93	0.81
1:C:26:PHE:CE2	1:C:181:GLU:CD	2.58	0.81
1:D:170:ALA:O	1:D:172:GLU:N	2.14	0.81
1:D:515:ARG:HA	1:D:518:GLU:CD	2.04	0.81
1:E:423:TYR:CE2	1:E:425:HIS:HB2	2.16	0.81
1:H:423:TYR:CE2	1:H:425:HIS:HB2	2.15	0.81
1:A:493:ASP:HB3	1:A:514:TRP:CH2	2.16	0.81
1:B:249:LEU:HG	1:B:253:VAL:O	1.79	0.81
1:C:170:ALA:O	1:C:172:GLU:N	2.14	0.81
1:D:423:TYR:CE2	1:D:425:HIS:HB2	2.15	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:245:VAL:HG12	1:E:246:TYR:H	1.44	0.81
1:E:661:ALA:HB1	1:F:662:CYS:SG	2.20	0.81
1:F:423:TYR:CE2	1:F:425:HIS:HB2	2.16	0.81
1:H:434:TRP:HZ3	1:H:568:ARG:CG	1.94	0.81
1:C:651:GLN:HE21	1:D:492:ILE:HD13	1.46	0.81
1:E:282:MET:CB	1:E:286:ARG:HG3	2.11	0.81
1:E:547:LEU:HD22	1:E:611:GLN:HG2	1.63	0.81
1:E:571:TYR:CZ	1:E:590:MET:SD	2.73	0.81
1:B:179:CYS:HB2	1:B:181:GLU:CG	2.01	0.81
1:B:494:LEU:HD13	1:B:514:TRP:HB3	1.63	0.81
1:C:357:SER:HB3	1:C:453:THR:HB	1.63	0.81
1:E:515:ARG:HA	1:E:518:GLU:CD	2.06	0.81
1:H:220:ARG:HH12	1:H:223:LEU:HD22	1.46	0.81
1:H:249:LEU:HG	1:H:253:VAL:O	1.80	0.81
1:A:272:LYS:HG2	1:A:273:LEU:N	1.94	0.80
1:C:423:TYR:CE2	1:C:425:HIS:HB2	2.17	0.80
1:H:42:ALA:O	1:H:95:ALA:HA	1.80	0.80
1:H:148:PRO:HD3	1:H:188:TYR:CE2	2.15	0.80
1:A:153:LEU:CD2	1:A:162:HIS:ND1	2.44	0.80
1:A:423:TYR:CE2	1:A:425:HIS:HB2	2.16	0.80
1:B:423:TYR:CE2	1:B:425:HIS:HB2	2.16	0.80
1:C:249:LEU:HG	1:C:253:VAL:O	1.80	0.80
1:F:134:ARG:HB2	1:F:300:PHE:HE1	1.44	0.80
1:F:153:LEU:CD2	1:F:162:HIS:ND1	2.43	0.80
1:F:322:VAL:HG12	1:F:323:HIS:H	1.45	0.80
1:G:387:ILE:HD11	1:G:449:GLN:HG3	1.60	0.80
1:B:515:ARG:HA	1:B:518:GLU:CD	2.06	0.80
1:C:494:LEU:HD12	1:C:514:TRP:HE3	1.46	0.80
1:F:111:PHE:CZ	1:F:572:ARG:HG3	2.16	0.80
1:G:249:LEU:HG	1:G:253:VAL:O	1.80	0.80
1:D:475:GLU:HG2	1:D:636:MET:CE	2.10	0.80
1:G:423:TYR:CE2	1:G:425:HIS:HB2	2.16	0.80
1:B:563:LEU:HD21	1:B:596:LEU:HB2	1.62	0.80
1:D:588:ASN:CG	1:D:589:ASP:H	1.89	0.80
1:F:515:ARG:HA	1:F:518:GLU:CD	2.07	0.80
1:H:170:ALA:O	1:H:172:GLU:N	2.14	0.80
1:D:249:LEU:HG	1:D:253:VAL:O	1.82	0.80
1:D:570:LEU:HD23	1:D:590:MET:HG2	1.64	0.80
1:E:65:MET:HE3	1:E:96:MET:HE1	1.64	0.80
1:E:434:TRP:CZ3	1:E:568:ARG:HA	2.17	0.80
1:G:434:TRP:CD1	1:G:435:GLN:N	2.49	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:253:VAL:HB	1:B:255:PHE:CZ	2.16	0.80
1:F:497:TYR:CD2	1:F:497:TYR:O	2.35	0.80
1:G:282:MET:HB2	1:G:286:ARG:CG	2.12	0.80
1:G:322:VAL:HG12	1:G:323:HIS:H	1.47	0.80
1:A:282:MET:HB2	1:A:286:ARG:CG	2.12	0.80
1:E:246:TYR:HD1	1:E:258:VAL:CB	1.91	0.80
1:F:170:ALA:O	1:F:172:GLU:N	2.14	0.80
1:F:358:GLY:O	1:F:359:LEU:HB2	1.81	0.80
1:G:134:ARG:HA	1:G:300:PHE:CZ	2.17	0.80
1:G:148:PRO:HD3	1:G:188:TYR:CE2	2.16	0.80
1:A:219:PHE:C	1:A:220:ARG:CG	2.49	0.80
1:A:588:ASN:CG	1:A:589:ASP:H	1.89	0.80
1:C:433:ILE:HB	1:C:571:TYR:CZ	2.16	0.80
1:D:434:TRP:CD1	1:D:435:GLN:N	2.50	0.80
1:H:402:SER:HA	1:H:609:TYR:CD1	2.17	0.80
1:H:433:ILE:HB	1:H:571:TYR:CZ	2.17	0.80
1:A:282:MET:CB	1:A:286:ARG:HG3	2.11	0.79
1:A:515:ARG:HA	1:A:518:GLU:CD	2.07	0.79
1:D:134:ARG:HA	1:D:300:PHE:CZ	2.17	0.79
1:E:119:GLU:CB	1:E:121:PRO:HD2	2.12	0.79
1:G:42:ALA:O	1:G:95:ALA:HA	1.81	0.79
1:G:134:ARG:HA	1:G:300:PHE:HZ	1.45	0.79
1:A:579:ARG:HH22	1:D:580:ASP:HB3	1.47	0.79
1:B:245:VAL:HG12	1:B:246:TYR:H	1.47	0.79
1:D:263:ASN:ND2	1:D:265:LEU:HB2	1.95	0.79
1:D:282:MET:CB	1:D:286:ARG:HG3	2.12	0.79
1:H:473:THR:CG2	1:H:533:LEU:HD22	2.13	0.79
1:A:246:TYR:HD1	1:A:258:VAL:CB	1.89	0.79
1:A:655:TRP:NE1	1:B:496:LYS:HB2	1.95	0.79
1:E:358:GLY:O	1:E:359:LEU:HB2	1.81	0.79
1:E:658:LEU:HD12	1:F:658:LEU:HA	1.63	0.79
1:F:282:MET:HB2	1:F:286:ARG:CG	2.12	0.79
1:G:65:MET:HE3	1:G:96:MET:HE1	1.65	0.79
1:H:570:LEU:CB	1:H:590:MET:HE2	2.10	0.79
1:C:497:TYR:N	1:D:655:TRP:HZ2	1.80	0.79
1:E:263:ASN:ND2	1:E:265:LEU:HB2	1.98	0.79
1:F:357:SER:HB3	1:F:453:THR:HA	1.64	0.79
1:G:419:ARG:H	1:G:420:PRO:CD	1.95	0.79
1:B:220:ARG:NH1	1:B:223:LEU:HD22	1.98	0.79
1:C:422:THR:HB	1:C:585:GLY:HA3	1.62	0.79
1:C:547:LEU:HD13	1:C:615:THR:HG22	1.45	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:547:LEU:HD12	1:C:615:THR:HG22	1.61	0.79
1:D:438:ARG:HG2	1:D:564:GLU:HG3	1.63	0.79
1:A:358:GLY:O	1:A:359:LEU:HB2	1.80	0.79
1:B:220:ARG:HH12	1:B:223:LEU:HD22	1.46	0.79
1:C:134:ARG:HB2	1:C:300:PHE:HE1	1.46	0.79
1:F:119:GLU:CB	1:F:121:PRO:HD2	2.13	0.79
1:F:533:LEU:HD23	1:F:629:VAL:HG13	1.62	0.79
1:H:588:ASN:CG	1:H:589:ASP:H	1.89	0.79
1:C:120:GLY:O	1:C:124:THR:N	2.14	0.79
1:C:570:LEU:HB3	1:C:590:MET:CE	2.12	0.79
1:G:220:ARG:NH1	1:G:223:LEU:HD22	1.95	0.79
1:H:235:VAL:HB	1:H:243:ILE:HA	1.65	0.79
1:A:322:VAL:HG12	1:A:323:HIS:H	1.47	0.79
1:B:322:VAL:HG12	1:B:323:HIS:H	1.47	0.79
1:B:441:LYS:HB2	1:B:560:LEU:CD2	2.12	0.79
1:C:246:TYR:HD1	1:C:258:VAL:CB	1.90	0.79
1:D:253:VAL:HB	1:D:255:PHE:CZ	2.18	0.79
1:F:533:LEU:HD23	1:F:629:VAL:CG1	2.13	0.79
1:G:358:GLY:O	1:G:359:LEU:HB2	1.82	0.79
1:A:434:TRP:HZ3	1:A:568:ARG:HG3	1.47	0.79
1:A:570:LEU:HD23	1:A:590:MET:HG2	1.64	0.79
1:B:422:THR:HB	1:B:585:GLY:CA	2.13	0.79
1:C:235:VAL:HB	1:C:243:ILE:HA	1.64	0.79
1:C:322:VAL:HG12	1:C:323:HIS:H	1.48	0.79
1:E:419:ARG:HA	1:E:587:SER:OG	1.81	0.79
1:H:358:GLY:O	1:H:359:LEU:HB2	1.82	0.79
1:A:409:SER:CB	1:A:412:ILE:HD12	2.13	0.79
1:D:220:ARG:HH12	1:D:223:LEU:HD22	1.47	0.79
1:E:651:GLN:NE2	1:F:492:ILE:HG23	1.97	0.79
1:B:500:GLN:C	1:B:505:ILE:HG12	2.08	0.78
1:C:134:ARG:CA	1:C:300:PHE:HZ	1.96	0.78
1:C:358:GLY:O	1:C:359:LEU:HB2	1.81	0.78
1:D:26:PHE:CE2	1:D:181:GLU:CD	2.61	0.78
1:D:245:VAL:HG12	1:D:246:TYR:H	1.47	0.78
1:D:637:ARG:O	1:D:641:LYS:HB2	1.81	0.78
1:E:134:ARG:HB2	1:E:300:PHE:CE1	2.17	0.78
1:F:65:MET:HE3	1:F:96:MET:HE1	1.65	0.78
1:G:409:SER:CB	1:G:412:ILE:HD12	2.13	0.78
1:D:433:ILE:HB	1:D:571:TYR:CZ	2.19	0.78
1:E:494:LEU:HD12	1:E:514:TRP:HE3	1.46	0.78
1:F:434:TRP:HE3	1:F:568:ARG:HA	1.44	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:217:THR:OG1	1:H:218:GLY:N	2.08	0.78
1:B:282:MET:CB	1:B:286:ARG:HG3	2.14	0.78
1:C:220:ARG:HH12	1:C:223:LEU:HD22	1.47	0.78
1:D:119:GLU:HB3	1:D:121:PRO:HD2	1.66	0.78
1:D:660:ILE:HG22	1:D:661:ALA:H	1.49	0.78
1:E:120:GLY:O	1:E:124:THR:N	2.16	0.78
1:E:322:VAL:HG12	1:E:323:HIS:H	1.46	0.78
1:F:419:ARG:H	1:F:420:PRO:CD	1.97	0.78
1:H:451:GLN:CD	1:H:611:GLN:NE2	2.41	0.78
1:C:119:GLU:HB3	1:C:121:PRO:HD2	1.64	0.78
1:D:120:GLY:O	1:D:124:THR:N	2.17	0.78
1:D:475:GLU:CD	1:D:636:MET:HE1	2.09	0.78
1:A:580:ASP:HB3	1:D:579:ARG:NH2	1.98	0.78
1:D:235:VAL:HB	1:D:243:ILE:HA	1.65	0.78
1:D:319:SER:OG	1:D:403:LEU:HB2	1.83	0.78
1:E:409:SER:CB	1:E:412:ILE:HD12	2.14	0.78
1:F:473:THR:CG2	1:F:533:LEU:HD22	2.04	0.78
1:G:394:LYS:HE3	1:G:609:TYR:O	1.83	0.78
1:G:588:ASN:CG	1:G:589:ASP:H	1.91	0.78
1:H:65:MET:HE3	1:H:96:MET:HE1	1.65	0.78
1:G:245:VAL:HG12	1:G:246:TYR:H	1.48	0.78
1:C:282:MET:HB2	1:C:286:ARG:CG	2.13	0.78
1:F:253:VAL:HB	1:F:255:PHE:CZ	2.19	0.78
1:B:434:TRP:CD1	1:B:435:GLN:N	2.51	0.78
1:B:571:TYR:CZ	1:B:590:MET:SD	2.77	0.78
1:D:65:MET:HE3	1:D:96:MET:HE1	1.64	0.78
1:D:422:THR:HB	1:D:585:GLY:C	2.09	0.78
1:F:359:LEU:HA	1:F:460:ARG:HH12	1.49	0.78
1:B:263:ASN:ND2	1:B:265:LEU:HB2	1.96	0.78
1:F:134:ARG:CA	1:F:300:PHE:HZ	1.93	0.78
1:H:434:TRP:CZ3	1:H:568:ARG:CA	2.64	0.78
1:C:254:LYS:C	1:C:255:PHE:CG	2.62	0.77
1:C:282:MET:CB	1:C:286:ARG:HG3	2.13	0.77
1:D:547:LEU:CD1	1:D:615:THR:HG22	2.13	0.77
1:H:419:ARG:H	1:H:420:PRO:CD	1.97	0.77
1:G:120:GLY:O	1:G:124:THR:N	2.17	0.77
1:A:220:ARG:HH12	1:A:223:LEU:HD22	1.46	0.77
1:B:65:MET:HE3	1:B:96:MET:HE1	1.64	0.77
1:B:185:THR:HG23	1:B:187:GLN:CG	2.09	0.77
1:C:409:SER:CB	1:C:412:ILE:HD12	2.15	0.77
1:C:419:ARG:H	1:C:420:PRO:CD	1.97	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:282:MET:HB2	1:H:286:ARG:CG	2.14	0.77
1:A:510:LEU:HD12	1:A:657:LEU:CD1	2.14	0.77
1:B:387:ILE:HD12	1:B:450:GLY:CA	2.14	0.77
1:D:434:TRP:HB3	1:D:571:TYR:HD1	1.43	0.77
1:D:660:ILE:CG2	1:D:661:ALA:N	2.48	0.77
1:H:219:PHE:O	1:H:220:ARG:HG3	1.84	0.77
1:A:533:LEU:CD2	1:A:629:VAL:HG13	2.15	0.77
1:B:419:ARG:H	1:B:420:PRO:CD	1.96	0.77
1:B:476:CYS:CB	1:B:636:MET:SD	2.72	0.77
1:C:547:LEU:CD1	1:C:615:THR:CG2	2.51	0.77
1:D:249:LEU:CD2	1:D:252:ALA:HA	2.15	0.77
1:F:249:LEU:CD2	1:F:252:ALA:HA	2.15	0.77
1:A:245:VAL:HG12	1:A:246:TYR:H	1.48	0.77
1:A:387:ILE:HD11	1:A:449:GLN:HG3	1.67	0.77
1:B:282:MET:HB2	1:B:286:ARG:CG	2.14	0.77
1:C:65:MET:HE3	1:C:96:MET:HE1	1.64	0.77
1:E:220:ARG:HH12	1:E:223:LEU:HD22	1.49	0.77
1:E:272:LYS:HB2	1:E:306:ILE:CG2	2.15	0.77
1:G:253:VAL:HB	1:G:255:PHE:CZ	2.20	0.77
1:H:466:SER:HB3	1:H:537:MET:HE1	1.66	0.77
1:B:119:GLU:CB	1:B:121:PRO:HD2	2.14	0.77
1:E:254:LYS:C	1:E:255:PHE:CG	2.62	0.77
1:E:492:ILE:HG23	1:F:651:GLN:HE22	1.48	0.77
1:H:220:ARG:NH1	1:H:223:LEU:HD22	1.99	0.77
1:H:245:VAL:HG12	1:H:246:TYR:H	1.49	0.77
1:A:253:VAL:HB	1:A:255:PHE:CZ	2.20	0.77
1:A:529:GLU:HG3	1:A:633:MET:CE	2.14	0.77
1:C:588:ASN:CG	1:C:589:ASP:H	1.92	0.77
1:H:282:MET:CB	1:H:286:ARG:HG3	2.13	0.77
1:A:120:GLY:O	1:A:124:THR:N	2.18	0.77
1:A:217:THR:OG1	1:A:218:GLY:N	2.12	0.77
1:C:134:ARG:HB2	1:C:300:PHE:CE1	2.19	0.77
1:C:434:TRP:HE3	1:C:568:ARG:HA	1.50	0.77
1:D:441:LYS:HD2	1:D:561:ASP:OD1	1.84	0.77
1:F:235:VAL:HB	1:F:243:ILE:HA	1.67	0.77
1:F:588:ASN:CG	1:F:589:ASP:H	1.93	0.77
1:C:193:LEU:HB2	1:C:196:GLN:HE22	1.48	0.77
1:C:422:THR:HB	1:C:585:GLY:C	2.09	0.77
1:D:282:MET:HB2	1:D:286:ARG:CG	2.13	0.77
1:E:588:ASN:CG	1:E:589:ASP:H	1.92	0.77
1:F:26:PHE:CZ	1:F:179:CYS:HB3	2.19	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:118:LYS:CG	1:H:264:HIS:O	2.31	0.77
1:H:409:SER:CB	1:H:412:ILE:HD12	2.15	0.77
1:H:582:ARG:H	1:H:582:ARG:HD2	1.49	0.77
1:A:219:PHE:O	1:A:220:ARG:HG3	1.85	0.76
1:C:220:ARG:NH1	1:C:223:LEU:HD22	1.99	0.76
1:C:253:VAL:HB	1:C:255:PHE:CZ	2.20	0.76
1:C:582:ARG:H	1:C:582:ARG:HD2	1.50	0.76
1:D:433:ILE:HB	1:D:571:TYR:OH	1.84	0.76
1:D:536:LYS:HB3	1:D:625:LEU:CD1	2.16	0.76
1:F:245:VAL:HG12	1:F:246:TYR:H	1.48	0.76
1:G:402:SER:HA	1:G:609:TYR:CD1	2.20	0.76
1:C:107:TYR:O	1:C:110:GLN:N	2.18	0.76
1:C:185:THR:HG23	1:C:187:GLN:CG	2.08	0.76
1:E:220:ARG:NH1	1:E:223:LEU:HD22	1.99	0.76
1:E:282:MET:HB2	1:E:286:ARG:CG	2.11	0.76
1:F:272:LYS:HB2	1:F:306:ILE:CG2	2.15	0.76
1:F:409:SER:CB	1:F:412:ILE:HD12	2.14	0.76
1:A:235:VAL:HB	1:A:243:ILE:HA	1.66	0.76
1:A:419:ARG:H	1:A:420:PRO:CD	1.97	0.76
1:B:120:GLY:O	1:B:124:THR:N	2.18	0.76
1:C:434:TRP:CD1	1:C:435:GLN:N	2.54	0.76
1:G:272:LYS:HB2	1:G:306:ILE:CG2	2.16	0.76
1:G:359:LEU:HA	1:G:460:ARG:NH1	2.00	0.76
1:G:570:LEU:HB3	1:G:590:MET:CE	2.15	0.76
1:A:220:ARG:NH1	1:A:223:LEU:HD22	2.00	0.76
1:A:422:THR:HB	1:A:585:GLY:HA2	1.64	0.76
1:B:409:SER:CB	1:B:412:ILE:HD12	2.15	0.76
1:C:272:LYS:HB2	1:C:306:ILE:CG2	2.15	0.76
1:H:193:LEU:HB2	1:H:196:GLN:HE22	1.49	0.76
1:B:235:VAL:HB	1:B:243:ILE:HA	1.67	0.76
1:B:358:GLY:O	1:B:359:LEU:HB2	1.83	0.76
1:C:485:PHE:CE2	1:D:485:PHE:CB	2.69	0.76
1:D:220:ARG:NH1	1:D:223:LEU:HD22	1.98	0.76
1:F:521:VAL:HG22	1:F:643:VAL:CG1	2.15	0.76
1:A:107:TYR:CD1	1:A:153:LEU:HD12	2.21	0.76
1:A:230:GLN:C	1:A:232:HIS:N	2.43	0.76
1:B:254:LYS:C	1:B:255:PHE:CG	2.64	0.76
1:C:286:ARG:HA	1:C:290:THR:HG22	1.67	0.76
1:D:419:ARG:H	1:D:420:PRO:CD	1.97	0.76
1:H:434:TRP:CD1	1:H:434:TRP:C	2.64	0.76
1:D:430:TRP:HB3	1:D:571:TYR:CD2	2.17	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:119:GLU:HB3	1:F:121:PRO:HD2	1.68	0.76
1:G:235:VAL:HB	1:G:243:ILE:HA	1.68	0.76
1:G:434:TRP:HB3	1:G:571:TYR:HD1	1.49	0.76
1:A:316:ASN:O	1:A:388:PHE:O	2.04	0.76
1:B:26:PHE:HE2	1:B:181:GLU:CD	1.92	0.76
1:C:434:TRP:HB3	1:C:571:TYR:HD1	1.44	0.76
1:D:272:LYS:HB2	1:D:306:ILE:CG2	2.16	0.76
1:D:570:LEU:HB3	1:D:590:MET:CE	2.15	0.76
1:E:655:TRP:HE1	1:F:496:LYS:HB2	0.67	0.76
1:E:661:ALA:O	1:F:661:ALA:O	2.04	0.76
1:F:563:LEU:HD21	1:F:596:LEU:HB2	1.68	0.76
1:G:119:GLU:CB	1:G:121:PRO:HD2	2.16	0.76
1:H:248:ASP:C	1:H:248:ASP:OD1	2.29	0.76
1:A:473:THR:HG21	1:A:533:LEU:CD2	2.14	0.76
1:C:573:ARG:HH22	1:D:573:ARG:HH12	1.31	0.76
1:C:573:ARG:NH2	1:D:573:ARG:HH12	1.84	0.76
1:D:185:THR:HG23	1:D:187:GLN:CG	2.07	0.76
1:E:419:ARG:H	1:E:420:PRO:CD	1.98	0.76
1:E:658:LEU:HA	1:F:658:LEU:CD1	2.16	0.76
1:A:186:LEU:O	1:A:188:TYR:N	2.18	0.76
1:B:476:CYS:HA	1:B:636:MET:SD	2.25	0.76
1:E:107:TYR:CD1	1:E:153:LEU:HD12	2.21	0.76
1:H:119:GLU:CB	1:H:121:PRO:HD2	2.16	0.76
1:B:588:ASN:CG	1:B:589:ASP:H	1.91	0.75
1:C:662:CYS:SG	1:D:661:ALA:HB1	2.27	0.75
1:E:249:LEU:CD2	1:E:252:ALA:HA	2.16	0.75
1:E:666:ARG:NH1	1:F:502:GLU:HG3	2.01	0.75
1:F:193:LEU:HD22	1:F:231:TRP:CD1	2.21	0.75
1:A:118:LYS:CG	1:A:264:HIS:O	2.32	0.75
1:A:434:TRP:CD1	1:A:435:GLN:N	2.53	0.75
1:A:476:CYS:HB2	1:A:636:MET:SD	2.26	0.75
1:F:327:VAL:HG11	1:F:367:LEU:CB	2.16	0.75
1:F:475:GLU:HG2	1:F:636:MET:HE1	1.66	0.75
1:A:582:ARG:H	1:A:582:ARG:HD2	1.51	0.75
1:B:272:LYS:HB2	1:B:306:ILE:CG2	2.16	0.75
1:B:444:CYS:C	1:B:446:ARG:H	1.94	0.75
1:B:500:GLN:HB3	1:B:505:ILE:CG1	2.16	0.75
1:F:443:ASP:O	1:F:446:ARG:CB	2.34	0.75
1:F:582:ARG:H	1:F:582:ARG:HD2	1.50	0.75
1:B:394:LYS:CE	1:B:401:ILE:HA	2.17	0.75
1:E:119:GLU:HB3	1:E:121:PRO:HD2	1.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:582:ARG:H	1:E:582:ARG:HD2	1.52	0.75
1:H:322:VAL:HG12	1:H:323:HIS:H	1.52	0.75
1:A:434:TRP:CZ3	1:A:568:ARG:CA	2.68	0.75
1:B:134:ARG:HB2	1:B:300:PHE:HE1	1.52	0.75
1:B:434:TRP:HE3	1:B:568:ARG:HA	1.45	0.75
1:B:647:GLN:CD	1:B:647:GLN:N	2.44	0.75
1:C:533:LEU:HD23	1:C:629:VAL:HG13	1.67	0.75
1:D:171:LYS:HG3	1:D:171:LYS:O	1.87	0.75
1:D:193:LEU:HD22	1:D:231:TRP:CD1	2.20	0.75
1:E:272:LYS:HB2	1:E:306:ILE:HG21	1.68	0.75
1:G:26:PHE:CZ	1:G:179:CYS:HB3	2.21	0.75
1:G:193:LEU:HB2	1:G:196:GLN:HE22	1.51	0.75
1:H:254:LYS:C	1:H:255:PHE:CG	2.64	0.75
1:H:443:ASP:O	1:H:446:ARG:HB2	1.86	0.75
1:C:272:LYS:HB2	1:C:306:ILE:HG21	1.68	0.75
1:E:570:LEU:HB3	1:E:590:MET:CE	2.15	0.75
1:A:430:TRP:HB3	1:A:571:TYR:HD2	1.50	0.75
1:B:107:TYR:CD1	1:B:153:LEU:HD12	2.22	0.75
1:B:536:LYS:O	1:B:625:LEU:HD13	1.87	0.75
1:C:424:THR:OG1	1:C:425:HIS:ND1	2.17	0.75
1:D:409:SER:CB	1:D:412:ILE:HD12	2.16	0.75
1:D:582:ARG:H	1:D:582:ARG:HD2	1.50	0.75
1:F:107:TYR:O	1:F:110:GLN:N	2.20	0.75
1:F:434:TRP:CD1	1:F:435:GLN:N	2.54	0.75
1:B:357:SER:HA	1:B:453:THR:HB	1.68	0.75
1:E:496:LYS:HB2	1:F:655:TRP:HE1	0.66	0.75
1:G:327:VAL:HG11	1:G:367:LEU:CB	2.16	0.75
1:G:582:ARG:H	1:G:582:ARG:HD2	1.49	0.75
1:A:272:LYS:HB2	1:A:306:ILE:CG2	2.17	0.75
1:B:394:LYS:HE2	1:B:401:ILE:CA	2.17	0.75
1:C:107:TYR:CD1	1:C:153:LEU:HD12	2.22	0.75
1:D:107:TYR:CD1	1:D:153:LEU:HD12	2.22	0.75
1:E:502:GLU:HG3	1:F:666:ARG:HH12	1.51	0.75
1:F:185:THR:HG23	1:F:187:GLN:CG	2.08	0.75
1:F:466:SER:HB3	1:F:537:MET:HE1	1.69	0.75
1:G:387:ILE:CD1	1:G:450:GLY:HA2	2.16	0.75
1:G:434:TRP:CZ3	1:G:568:ARG:CA	2.70	0.75
1:G:473:THR:HG21	1:G:533:LEU:CD2	2.14	0.75
1:H:327:VAL:HG11	1:H:367:LEU:CB	2.17	0.75
1:B:193:LEU:HB2	1:B:196:GLN:HE22	1.52	0.74
1:B:494:LEU:CD1	1:B:514:TRP:HB3	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:533:LEU:CD2	1:C:629:VAL:HG11	2.13	0.74
1:E:502:GLU:HG3	1:F:666:ARG:HH11	1.51	0.74
1:E:660:ILE:HG22	1:E:661:ALA:H	1.51	0.74
1:E:665:VAL:CG2	1:F:665:VAL:HG22	2.17	0.74
1:F:118:LYS:HG2	1:F:265:LEU:HA	1.69	0.74
1:H:107:TYR:CD1	1:H:153:LEU:HD12	2.22	0.74
1:A:107:TYR:O	1:A:110:GLN:N	2.20	0.74
1:A:327:VAL:HG11	1:A:367:LEU:CB	2.16	0.74
1:B:118:LYS:CG	1:B:264:HIS:O	2.34	0.74
1:B:582:ARG:H	1:B:582:ARG:HD2	1.51	0.74
1:C:654:LEU:CD1	1:D:655:TRP:CE3	2.69	0.74
1:D:660:ILE:CG2	1:D:661:ALA:H	2.00	0.74
1:E:235:VAL:HB	1:E:243:ILE:HA	1.68	0.74
1:E:503:PHE:O	1:E:505:ILE:HG13	1.86	0.74
1:F:517:MET:O	1:F:517:MET:HG2	1.87	0.74
1:F:521:VAL:HG22	1:F:643:VAL:HG13	1.67	0.74
1:F:660:ILE:CG2	1:F:661:ALA:N	2.51	0.74
1:H:412:ILE:HG23	1:H:433:ILE:HD12	1.69	0.74
1:A:422:THR:HB	1:A:585:GLY:HA3	1.69	0.74
1:F:107:TYR:CD1	1:F:153:LEU:HD12	2.22	0.74
1:F:394:LYS:HG3	1:F:613:SER:HB2	1.69	0.74
1:A:517:MET:HE3	1:A:647:GLN:OE1	1.87	0.74
1:B:33:ILE:HD11	1:B:40:GLN:CD	2.12	0.74
1:C:217:THR:OG1	1:C:218:GLY:N	2.15	0.74
1:E:248:ASP:OD1	1:E:248:ASP:C	2.30	0.74
1:E:424:THR:OG1	1:E:425:HIS:ND1	2.19	0.74
1:E:660:ILE:CG2	1:E:661:ALA:N	2.50	0.74
1:F:254:LYS:C	1:F:255:PHE:CG	2.65	0.74
1:F:193:LEU:HB2	1:F:196:GLN:HE22	1.53	0.74
1:H:272:LYS:HB2	1:H:306:ILE:CG2	2.17	0.74
1:H:357:SER:HA	1:H:453:THR:HB	1.67	0.74
1:E:28:TYR:O	1:E:44:LYS:HA	1.87	0.74
1:E:33:ILE:HD11	1:E:40:GLN:CD	2.13	0.74
1:F:230:GLN:C	1:F:232:HIS:N	2.44	0.74
1:G:434:TRP:CD1	1:G:434:TRP:C	2.65	0.74
1:A:119:GLU:CB	1:A:121:PRO:HD2	2.16	0.74
1:C:316:ASN:O	1:C:388:PHE:O	2.06	0.74
1:D:26:PHE:HE2	1:D:181:GLU:OE1	1.69	0.74
1:D:107:TYR:O	1:D:110:GLN:N	2.20	0.74
1:D:186:LEU:O	1:D:188:TYR:N	2.20	0.74
1:D:193:LEU:HB2	1:D:196:GLN:HE22	1.53	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:230:GLN:C	1:D:232:HIS:N	2.43	0.74
1:G:316:ASN:O	1:G:388:PHE:O	2.06	0.74
1:H:387:ILE:CD1	1:H:449:GLN:HG3	2.06	0.74
1:B:286:ARG:HA	1:B:290:THR:HG22	1.70	0.74
1:B:540:LEU:HD11	1:B:621:LYS:HB3	1.69	0.74
1:C:647:GLN:CD	1:C:647:GLN:N	2.43	0.74
1:E:107:TYR:O	1:E:110:GLN:N	2.21	0.74
1:E:658:LEU:HA	1:F:658:LEU:HD12	1.69	0.74
1:G:254:LYS:C	1:G:255:PHE:CG	2.66	0.74
1:A:517:MET:HG2	1:A:517:MET:O	1.88	0.74
1:C:570:LEU:HD23	1:C:590:MET:HE2	1.69	0.74
1:H:120:GLY:O	1:H:124:THR:N	2.19	0.74
1:H:430:TRP:HB3	1:H:571:TYR:HD2	1.53	0.74
1:B:107:TYR:O	1:B:110:GLN:N	2.20	0.73
1:B:434:TRP:CD1	1:B:434:TRP:C	2.65	0.73
1:C:33:ILE:HD11	1:C:40:GLN:CD	2.13	0.73
1:C:658:LEU:CD1	1:D:658:LEU:HA	2.17	0.73
1:C:660:ILE:C	1:C:662:CYS:H	1.96	0.73
1:D:254:LYS:C	1:D:255:PHE:CG	2.66	0.73
1:E:143:HIS:HD2	1:E:145:ASP:O	1.71	0.73
1:A:193:LEU:HB2	1:A:196:GLN:HE22	1.52	0.73
1:A:660:ILE:HG22	1:A:661:ALA:H	1.53	0.73
1:C:646:ARG:O	1:C:650:ARG:HG2	1.89	0.73
1:D:570:LEU:HB3	1:D:590:MET:HE2	1.69	0.73
1:E:319:SER:OG	1:E:403:LEU:CB	2.35	0.73
1:F:143:HIS:HD2	1:F:145:ASP:O	1.70	0.73
1:F:217:THR:OG1	1:F:218:GLY:N	2.09	0.73
1:F:387:ILE:HD11	1:F:449:GLN:HG3	1.69	0.73
1:G:389:LEU:HD11	1:G:454:SER:OG	1.87	0.73
1:B:119:GLU:HB3	1:B:121:PRO:HD2	1.69	0.73
1:B:517:MET:O	1:B:517:MET:HG2	1.87	0.73
1:C:248:ASP:C	1:C:248:ASP:OD1	2.30	0.73
1:D:28:TYR:O	1:D:44:LYS:HA	1.89	0.73
1:F:430:TRP:CE3	1:F:574:LEU:HD22	2.23	0.73
1:F:570:LEU:HD23	1:F:590:MET:CG	2.16	0.73
1:G:185:THR:HG23	1:G:187:GLN:CG	2.08	0.73
1:G:249:LEU:CD2	1:G:252:ALA:HA	2.18	0.73
1:H:33:ILE:HD11	1:H:40:GLN:CD	2.13	0.73
1:A:33:ILE:HD11	1:A:40:GLN:CD	2.13	0.73
1:A:171:LYS:HG3	1:A:171:LYS:O	1.87	0.73
1:C:28:TYR:O	1:C:44:LYS:HA	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:438:ARG:HG2	1:D:564:GLU:CG	2.18	0.73
1:D:647:GLN:CD	1:D:647:GLN:N	2.46	0.73
1:E:171:LYS:HG3	1:E:171:LYS:O	1.88	0.73
1:E:654:LEU:CD1	1:F:655:TRP:CZ3	2.70	0.73
1:G:33:ILE:HD11	1:G:40:GLN:CD	2.13	0.73
1:H:119:GLU:HB3	1:H:121:PRO:HD2	1.71	0.73
1:A:134:ARG:HB2	1:A:300:PHE:HE1	1.53	0.73
1:A:424:THR:OG1	1:A:425:HIS:ND1	2.19	0.73
1:A:660:ILE:C	1:A:662:CYS:H	1.96	0.73
1:B:134:ARG:CA	1:B:300:PHE:HZ	2.01	0.73
1:B:186:LEU:O	1:B:188:TYR:N	2.22	0.73
1:B:249:LEU:CD2	1:B:252:ALA:HA	2.18	0.73
1:C:219:PHE:O	1:C:220:ARG:HG3	1.85	0.73
1:E:434:TRP:CD1	1:E:434:TRP:C	2.63	0.73
1:F:186:LEU:O	1:F:188:TYR:N	2.22	0.73
1:F:353:LEU:HB3	1:F:361:LEU:HD12	1.70	0.73
1:H:107:TYR:O	1:H:110:GLN:N	2.21	0.73
1:H:171:LYS:HG3	1:H:171:LYS:O	1.88	0.73
1:D:570:LEU:HD23	1:D:590:MET:HE2	1.70	0.73
1:F:660:ILE:HG22	1:F:661:ALA:H	1.53	0.73
1:G:171:LYS:HG3	1:G:171:LYS:O	1.88	0.73
1:H:319:SER:C	1:H:321:ARG:H	1.96	0.73
1:A:143:HIS:HD2	1:A:145:ASP:O	1.71	0.73
1:B:26:PHE:HE2	1:B:181:GLU:OE1	1.70	0.73
1:C:660:ILE:CG2	1:C:661:ALA:H	2.02	0.73
1:D:26:PHE:HE2	1:D:181:GLU:CD	1.97	0.73
1:E:193:LEU:HB2	1:E:196:GLN:HE22	1.53	0.73
1:H:466:SER:O	1:H:541:GLN:NE2	2.21	0.73
1:A:28:TYR:O	1:A:44:LYS:HA	1.88	0.73
1:C:143:HIS:HD2	1:C:145:ASP:O	1.72	0.73
1:C:533:LEU:CD2	1:C:629:VAL:HG13	2.17	0.73
1:C:660:ILE:HG22	1:C:661:ALA:H	1.52	0.73
1:E:480:LYS:HE3	1:E:527:GLU:HB2	1.71	0.73
1:H:424:THR:OG1	1:H:425:HIS:ND1	2.18	0.73
1:C:517:MET:O	1:C:517:MET:HG2	1.87	0.73
1:D:118:LYS:CG	1:D:264:HIS:O	2.37	0.73
1:E:316:ASN:O	1:E:388:PHE:O	2.06	0.73
1:E:651:GLN:NE2	1:F:492:ILE:CG2	2.52	0.73
1:E:660:ILE:CG2	1:E:661:ALA:H	2.01	0.73
1:F:171:LYS:O	1:F:171:LYS:HG3	1.88	0.73
1:F:536:LYS:HB3	1:F:625:LEU:CD1	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:472:MET:HG2	1:G:633:MET:HB2	1.70	0.73
1:H:186:LEU:O	1:H:188:TYR:N	2.22	0.73
1:H:254:LYS:O	1:H:255:PHE:CD2	2.42	0.73
1:C:485:PHE:CZ	1:D:485:PHE:HB2	2.23	0.73
1:C:666:ARG:HG3	1:D:503:PHE:CE1	2.24	0.73
1:C:660:ILE:CG2	1:C:661:ALA:N	2.50	0.72
1:C:665:VAL:HG13	1:D:665:VAL:HG13	1.69	0.72
1:E:422:THR:HB	1:E:585:GLY:HA2	1.68	0.72
1:E:479:LEU:HD11	1:E:641:LYS:HG3	1.70	0.72
1:F:517:MET:CE	1:F:647:GLN:OE1	2.37	0.72
1:H:472:MET:SD	1:H:633:MET:HB2	2.30	0.72
1:A:660:ILE:CG2	1:A:661:ALA:N	2.51	0.72
1:D:143:HIS:HD2	1:D:145:ASP:O	1.71	0.72
1:E:111:PHE:CZ	1:E:572:ARG:HG3	2.23	0.72
1:F:28:TYR:O	1:F:44:LYS:HA	1.88	0.72
1:F:387:ILE:CD1	1:F:450:GLY:CA	2.67	0.72
1:G:107:TYR:CD1	1:G:153:LEU:HD12	2.23	0.72
1:G:186:LEU:O	1:G:188:TYR:N	2.22	0.72
1:A:319:SER:C	1:A:321:ARG:H	1.96	0.72
1:D:434:TRP:CD1	1:D:434:TRP:C	2.65	0.72
1:E:134:ARG:CA	1:E:300:PHE:CZ	2.72	0.72
1:E:430:TRP:HB3	1:E:571:TYR:HD2	1.52	0.72
1:H:286:ARG:HA	1:H:290:THR:HG22	1.72	0.72
1:A:353:LEU:HB3	1:A:361:LEU:HD12	1.71	0.72
1:B:327:VAL:HG11	1:B:367:LEU:CB	2.18	0.72
1:B:660:ILE:CG2	1:B:661:ALA:N	2.52	0.72
1:D:33:ILE:HD11	1:D:40:GLN:CD	2.14	0.72
1:D:286:ARG:HA	1:D:290:THR:HG22	1.71	0.72
1:D:319:SER:C	1:D:321:ARG:H	1.97	0.72
1:E:186:LEU:O	1:E:188:TYR:N	2.21	0.72
1:F:434:TRP:CD1	1:F:434:TRP:C	2.67	0.72
1:G:107:TYR:O	1:G:110:GLN:N	2.22	0.72
1:A:434:TRP:CD1	1:A:434:TRP:C	2.67	0.72
1:B:402:SER:HA	1:B:609:TYR:CD1	2.25	0.72
1:B:419:ARG:O	1:B:419:ARG:HG2	1.90	0.72
1:B:424:THR:OG1	1:B:425:HIS:ND1	2.18	0.72
1:B:438:ARG:HG2	1:B:564:GLU:CD	2.13	0.72
1:B:660:ILE:HG22	1:B:661:ALA:H	1.55	0.72
1:C:286:ARG:HA	1:C:290:THR:CG2	2.20	0.72
1:E:647:GLN:CD	1:E:647:GLN:N	2.46	0.72
1:F:120:GLY:O	1:F:124:THR:N	2.20	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:286:ARG:HG2	1:A:286:ARG:NH1	2.05	0.72
1:F:319:SER:C	1:F:321:ARG:H	1.98	0.72
1:F:412:ILE:HG23	1:F:433:ILE:HD12	1.72	0.72
1:G:119:GLU:HB3	1:G:121:PRO:HD2	1.72	0.72
1:G:143:HIS:HD2	1:G:145:ASP:O	1.73	0.72
1:A:254:LYS:C	1:A:255:PHE:CG	2.65	0.72
1:B:28:TYR:O	1:B:44:LYS:HA	1.89	0.72
1:B:438:ARG:NH1	1:B:568:ARG:HH21	1.87	0.72
1:C:419:ARG:HG2	1:C:419:ARG:O	1.89	0.72
1:F:33:ILE:HD11	1:F:40:GLN:CD	2.13	0.72
1:F:424:THR:OG1	1:F:425:HIS:ND1	2.19	0.72
1:H:143:HIS:HD2	1:H:145:ASP:O	1.73	0.72
1:H:419:ARG:HG2	1:H:419:ARG:O	1.88	0.72
1:A:248:ASP:C	1:A:248:ASP:OD1	2.33	0.72
1:A:263:ASN:HD21	1:A:265:LEU:CB	1.99	0.72
1:B:248:ASP:C	1:B:248:ASP:OD1	2.32	0.72
1:B:319:SER:C	1:B:321:ARG:H	1.98	0.72
1:B:550:ASN:HD21	1:B:611:GLN:CG	2.01	0.72
1:C:480:LYS:NZ	1:C:527:GLU:HB2	2.04	0.72
1:D:412:ILE:HG23	1:D:433:ILE:HD12	1.71	0.72
1:F:248:ASP:C	1:F:248:ASP:OD1	2.33	0.72
1:F:322:VAL:HG12	1:F:323:HIS:N	2.05	0.72
1:F:359:LEU:HA	1:F:460:ARG:NH1	2.04	0.72
1:C:419:ARG:HA	1:C:587:SER:CB	2.19	0.72
1:C:434:TRP:CD1	1:C:434:TRP:C	2.66	0.72
1:G:28:TYR:O	1:G:44:LYS:HA	1.88	0.72
1:A:286:ARG:HA	1:A:290:THR:HG22	1.72	0.72
1:A:337:LYS:HD3	1:A:348:GLU:HB3	1.72	0.72
1:F:434:TRP:HZ3	1:F:568:ARG:HG3	1.53	0.72
1:A:646:ARG:O	1:A:650:ARG:HG2	1.90	0.71
1:C:654:LEU:HD23	1:D:654:LEU:HD21	1.66	0.71
1:A:433:ILE:CG2	1:A:571:TYR:OH	2.38	0.71
1:B:134:ARG:HB2	1:B:300:PHE:CE1	2.25	0.71
1:B:660:ILE:C	1:B:662:CYS:H	1.95	0.71
1:C:284:HIS:NE2	1:E:342:GLN:NE2	2.38	0.71
1:D:517:MET:HG2	1:D:517:MET:O	1.90	0.71
1:E:286:ARG:HA	1:E:290:THR:HG22	1.70	0.71
1:E:419:ARG:O	1:E:419:ARG:HG2	1.89	0.71
1:E:646:ARG:O	1:E:650:ARG:HG2	1.90	0.71
1:G:319:SER:C	1:G:321:ARG:H	1.97	0.71
1:H:28:TYR:O	1:H:44:LYS:HA	1.89	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:171:LYS:O	1:C:171:LYS:HG3	1.89	0.71
1:C:387:ILE:HD11	1:C:449:GLN:HG3	1.70	0.71
1:C:486:PHE:CE1	1:C:647:GLN:HB3	2.25	0.71
1:C:643:VAL:O	1:C:644:VAL:HG23	1.90	0.71
1:D:337:LYS:HD3	1:D:348:GLU:HB3	1.72	0.71
1:E:254:LYS:O	1:E:255:PHE:CD2	2.43	0.71
1:A:510:LEU:HD12	1:A:657:LEU:HD12	1.72	0.71
1:A:665:VAL:HG13	1:B:665:VAL:CG1	2.16	0.71
1:B:475:GLU:O	1:B:478:GLN:N	2.22	0.71
1:C:337:LYS:HD3	1:C:348:GLU:HB3	1.72	0.71
1:D:322:VAL:HG12	1:D:323:HIS:N	2.04	0.71
1:E:409:SER:HB2	1:E:412:ILE:HD12	1.72	0.71
1:H:249:LEU:CD2	1:H:252:ALA:HA	2.17	0.71
1:B:171:LYS:HG3	1:B:171:LYS:O	1.89	0.71
1:B:272:LYS:HB2	1:B:306:ILE:HG21	1.72	0.71
1:C:319:SER:C	1:C:321:ARG:H	1.97	0.71
1:F:272:LYS:HB2	1:F:306:ILE:HG21	1.70	0.71
1:G:248:ASP:C	1:G:248:ASP:OD1	2.33	0.71
1:G:322:VAL:HG12	1:G:323:HIS:N	2.06	0.71
1:H:185:THR:HG23	1:H:187:GLN:CG	2.11	0.71
1:D:191:PRO:HG3	1:D:234:LYS:NZ	2.06	0.71
1:D:327:VAL:HG11	1:D:367:LEU:CB	2.19	0.71
1:D:646:ARG:O	1:D:650:ARG:HG2	1.89	0.71
1:E:26:PHE:HE2	1:E:181:GLU:CD	1.97	0.71
1:F:118:LYS:CG	1:F:265:LEU:HA	2.20	0.71
1:G:337:LYS:HD3	1:G:348:GLU:HB3	1.71	0.71
1:G:341:GLN:OE1	1:G:347:PRO:HB3	1.89	0.71
1:B:494:LEU:CD1	1:B:514:TRP:HE3	2.00	0.71
1:B:646:ARG:O	1:B:650:ARG:HG2	1.90	0.71
1:C:412:ILE:HG23	1:C:433:ILE:HD12	1.73	0.71
1:C:503:PHE:H	1:C:505:ILE:HD11	1.56	0.71
1:D:272:LYS:HB2	1:D:306:ILE:HG21	1.72	0.71
1:E:185:THR:HG23	1:E:187:GLN:CG	2.07	0.71
1:E:417:PRO:O	1:E:418:LYS:HG3	1.91	0.71
1:G:286:ARG:HA	1:G:290:THR:HG22	1.72	0.71
1:H:337:LYS:HD3	1:H:348:GLU:HB3	1.71	0.71
1:A:322:VAL:HG12	1:A:323:HIS:N	2.06	0.71
1:B:115:CYS:HB2	1:B:435:GLN:HG3	1.72	0.71
1:B:402:SER:HA	1:B:609:TYR:CG	2.26	0.71
1:D:353:LEU:HB3	1:D:361:LEU:HD12	1.71	0.71
1:D:547:LEU:HD13	1:D:615:THR:CG2	2.20	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:660:ILE:C	1:D:662:CYS:H	1.99	0.71
1:E:517:MET:O	1:E:517:MET:HG2	1.89	0.71
1:E:665:VAL:HG22	1:F:665:VAL:CG2	2.21	0.71
1:F:533:LEU:CD2	1:F:629:VAL:CG1	2.68	0.71
1:G:438:ARG:NH1	1:G:568:ARG:HH21	1.89	0.71
1:G:570:LEU:CB	1:G:590:MET:HE2	2.20	0.71
1:H:316:ASN:O	1:H:388:PHE:O	2.08	0.71
1:A:185:THR:HG23	1:A:187:GLN:CG	2.12	0.71
1:B:143:HIS:HD2	1:B:145:ASP:O	1.73	0.71
1:B:643:VAL:O	1:B:644:VAL:HG23	1.91	0.71
1:C:492:ILE:HG21	1:D:651:GLN:NE2	2.06	0.71
1:D:424:THR:OG1	1:D:425:HIS:ND1	2.17	0.71
1:E:319:SER:C	1:E:321:ARG:H	1.98	0.71
1:G:272:LYS:HB2	1:G:306:ILE:HG21	1.72	0.71
1:G:353:LEU:HB3	1:G:361:LEU:HD12	1.71	0.71
1:H:134:ARG:CA	1:H:300:PHE:CZ	2.68	0.71
1:B:193:LEU:HD22	1:B:231:TRP:CD1	2.25	0.71
1:B:433:ILE:HB	1:B:571:TYR:CZ	2.26	0.71
1:E:660:ILE:C	1:E:662:CYS:H	1.99	0.71
1:F:286:ARG:HA	1:F:290:THR:HG22	1.73	0.71
1:A:249:LEU:CD2	1:A:252:ALA:HA	2.19	0.70
1:A:655:TRP:CZ3	1:B:654:LEU:HD12	2.26	0.70
1:B:412:ILE:HG23	1:B:433:ILE:HD12	1.73	0.70
1:B:475:GLU:O	1:B:476:CYS:C	2.32	0.70
1:B:479:LEU:HD12	1:B:640:GLU:HB3	1.72	0.70
1:C:179:CYS:CB	1:C:181:GLU:CG	2.66	0.70
1:C:570:LEU:CB	1:C:590:MET:HE2	2.19	0.70
1:H:438:ARG:HG2	1:H:564:GLU:CD	2.16	0.70
1:B:253:VAL:HB	1:B:255:PHE:HZ	1.55	0.70
1:B:475:GLU:C	1:B:477:GLU:N	2.48	0.70
1:C:570:LEU:CD2	1:C:590:MET:HE2	2.21	0.70
1:D:419:ARG:HA	1:D:587:SER:OG	1.91	0.70
1:E:253:VAL:HB	1:E:255:PHE:HZ	1.53	0.70
1:F:337:LYS:HD3	1:F:348:GLU:HB3	1.73	0.70
1:F:646:ARG:O	1:F:650:ARG:HG2	1.91	0.70
1:G:409:SER:HB2	1:G:412:ILE:HD12	1.72	0.70
1:A:419:ARG:O	1:A:419:ARG:HG2	1.91	0.70
1:A:647:GLN:CD	1:A:647:GLN:N	2.47	0.70
1:D:357:SER:HA	1:D:453:THR:HB	1.73	0.70
1:E:422:THR:HB	1:E:585:GLY:HA3	1.72	0.70
1:H:26:PHE:HZ	1:H:179:CYS:HB3	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:253:VAL:HB	1:H:255:PHE:HZ	1.55	0.70
1:A:409:SER:HB2	1:A:412:ILE:HD12	1.74	0.70
1:B:322:VAL:HG12	1:B:323:HIS:N	2.05	0.70
1:C:497:TYR:HE2	1:C:511:LEU:HD22	1.56	0.70
1:E:503:PHE:H	1:E:505:ILE:HD11	1.55	0.70
1:E:480:LYS:CE	1:E:527:GLU:HB2	2.21	0.70
1:F:500:GLN:CB	1:F:505:ILE:HG12	2.21	0.70
1:F:647:GLN:N	1:F:647:GLN:CD	2.47	0.70
1:G:130:SER:O	1:G:300:PHE:CE1	2.44	0.70
1:H:263:ASN:HD21	1:H:265:LEU:CB	1.99	0.70
1:H:341:GLN:OE1	1:H:347:PRO:HB3	1.91	0.70
1:A:26:PHE:CZ	1:A:179:CYS:HB3	2.27	0.70
1:D:286:ARG:HA	1:D:290:THR:CG2	2.22	0.70
1:E:230:GLN:C	1:E:232:HIS:N	2.44	0.70
1:F:263:ASN:HD21	1:F:265:LEU:CB	1.99	0.70
1:F:660:ILE:C	1:F:662:CYS:H	1.99	0.70
1:H:26:PHE:CE2	1:H:181:GLU:OE1	2.37	0.70
1:A:660:ILE:CG2	1:A:661:ALA:H	2.05	0.70
1:B:114:CYS:O	1:B:115:CYS:HB2	1.91	0.70
1:B:286:ARG:NH1	1:B:286:ARG:HG2	2.04	0.70
1:C:322:VAL:HG12	1:C:323:HIS:N	2.05	0.70
1:C:353:LEU:HB3	1:C:361:LEU:HD12	1.72	0.70
1:C:475:GLU:HG2	1:C:636:MET:HE1	1.71	0.70
1:C:649:LYS:HA	1:C:652:GLN:HB2	1.73	0.70
1:D:187:GLN:CB	1:D:223:LEU:CD2	2.60	0.70
1:D:316:ASN:O	1:D:388:PHE:O	2.09	0.70
1:F:419:ARG:HG2	1:F:419:ARG:O	1.91	0.70
1:G:18:LYS:HZ2	1:G:33:ILE:HD12	1.55	0.70
1:H:18:LYS:HZ2	1:H:33:ILE:HD12	1.57	0.70
1:H:412:ILE:HG23	1:H:433:ILE:CD1	2.21	0.70
1:A:441:LYS:HB2	1:A:560:LEU:CD2	2.21	0.70
1:A:513:ALA:HB1	1:A:650:ARG:HH12	1.56	0.70
1:D:434:TRP:HE3	1:D:568:ARG:HA	1.52	0.70
1:E:337:LYS:HD3	1:E:348:GLU:HB3	1.72	0.70
1:G:434:TRP:CZ3	1:G:568:ARG:HG3	2.25	0.70
1:B:286:ARG:HA	1:B:290:THR:CG2	2.22	0.70
1:B:570:LEU:HB3	1:B:590:MET:HE2	1.74	0.70
1:E:114:CYS:O	1:E:115:CYS:HB2	1.92	0.70
1:E:260:PRO:HG3	1:E:274:GLU:HG2	1.74	0.70
1:E:322:VAL:HG12	1:E:323:HIS:N	2.06	0.70
1:F:570:LEU:CD2	1:F:590:MET:HE2	2.22	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:655:TRP:CZ3	1:B:654:LEU:CD1	2.75	0.70
1:C:263:ASN:HD21	1:C:265:LEU:CB	1.98	0.70
1:C:654:LEU:HD21	1:D:654:LEU:HD23	1.71	0.70
1:D:419:ARG:O	1:D:419:ARG:HG2	1.91	0.70
1:E:263:ASN:HD21	1:E:265:LEU:CB	2.02	0.70
1:G:571:TYR:CZ	1:G:590:MET:SD	2.85	0.70
1:D:472:MET:SD	1:D:633:MET:HB2	2.31	0.69
1:E:286:ARG:HA	1:E:290:THR:CG2	2.21	0.69
1:G:412:ILE:HG23	1:G:433:ILE:HD12	1.74	0.69
1:A:118:LYS:HG2	1:A:265:LEU:HA	1.73	0.69
1:B:337:LYS:HD3	1:B:348:GLU:HB3	1.74	0.69
1:D:479:LEU:HD12	1:D:640:GLU:HB3	1.74	0.69
1:H:272:LYS:HB2	1:H:306:ILE:HG21	1.72	0.69
1:A:412:ILE:HG23	1:A:433:ILE:HD12	1.74	0.69
1:B:263:ASN:HD21	1:B:265:LEU:CB	2.01	0.69
1:B:517:MET:HE1	1:B:650:ARG:HG3	1.73	0.69
1:E:493:ASP:HB3	1:E:514:TRP:CH2	2.28	0.69
1:F:120:GLY:H	1:F:122:ILE:H	1.41	0.69
1:G:419:ARG:O	1:G:419:ARG:HG2	1.90	0.69
1:A:119:GLU:HB3	1:A:121:PRO:HD2	1.73	0.69
1:A:341:GLN:OE1	1:A:347:PRO:HB3	1.91	0.69
1:C:26:PHE:HE2	1:C:181:GLU:CD	1.98	0.69
1:C:249:LEU:CD2	1:C:252:ALA:HA	2.18	0.69
1:D:248:ASP:C	1:D:248:ASP:OD1	2.34	0.69
1:D:422:THR:HG22	1:D:426:LEU:HD21	1.74	0.69
1:H:115:CYS:HB2	1:H:435:GLN:HG3	1.74	0.69
1:A:438:ARG:HG2	1:A:564:GLU:CD	2.17	0.69
1:B:16:GLU:HA	1:B:83:LEU:HD22	1.75	0.69
1:B:341:GLN:OE1	1:B:347:PRO:HB3	1.92	0.69
1:B:353:LEU:HB3	1:B:361:LEU:HD12	1.73	0.69
1:D:341:GLN:OE1	1:D:347:PRO:HB3	1.92	0.69
1:D:438:ARG:HG2	1:D:564:GLU:CD	2.17	0.69
1:E:26:PHE:CE2	1:E:181:GLU:OE1	2.43	0.69
1:H:353:LEU:HB3	1:H:361:LEU:HD12	1.73	0.69
1:A:18:LYS:HZ2	1:A:33:ILE:HG21	1.57	0.69
1:C:118:LYS:NZ	1:C:123:ARG:HH22	1.90	0.69
1:C:402:SER:HA	1:C:609:TYR:CG	2.27	0.69
1:D:350:GLU:HG2	1:D:391:ASP:HB2	1.75	0.69
1:E:62:ILE:HD12	1:E:94:LEU:HB2	1.74	0.69
1:E:497:TYR:HE2	1:E:511:LEU:HD22	1.53	0.69
1:H:286:ARG:HA	1:H:290:THR:CG2	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:62:ILE:HD12	1:A:94:LEU:HB2	1.74	0.69
1:B:417:PRO:O	1:B:418:LYS:HG3	1.92	0.69
1:C:18:LYS:HZ2	1:C:33:ILE:HG21	1.56	0.69
1:C:433:ILE:CG2	1:C:571:TYR:OH	2.40	0.69
1:D:217:THR:OG1	1:D:218:GLY:N	2.12	0.69
1:F:409:SER:HB2	1:F:412:ILE:HD12	1.73	0.69
1:F:660:ILE:CG2	1:F:661:ALA:H	2.03	0.69
1:A:570:LEU:CD2	1:A:590:MET:HE2	2.23	0.69
1:B:521:VAL:CG1	1:B:643:VAL:HG12	2.22	0.69
1:D:120:GLY:H	1:D:122:ILE:H	1.41	0.69
1:D:444:CYS:C	1:D:446:ARG:H	2.01	0.69
1:E:327:VAL:HG11	1:E:367:LEU:CB	2.21	0.69
1:F:179:CYS:CB	1:F:181:GLU:CG	2.67	0.69
1:F:341:GLN:OE1	1:F:347:PRO:HB3	1.93	0.69
1:F:444:CYS:C	1:F:446:ARG:N	2.50	0.69
1:F:496:LYS:O	1:F:499:GLU:HB2	1.93	0.69
1:H:62:ILE:HD12	1:H:94:LEU:HB2	1.74	0.69
1:H:419:ARG:N	1:H:420:PRO:HD3	2.03	0.69
1:A:134:ARG:HB2	1:A:300:PHE:CE1	2.27	0.69
1:B:120:GLY:H	1:B:122:ILE:H	1.40	0.69
1:B:438:ARG:HG2	1:B:564:GLU:CG	2.23	0.69
1:C:40:GLN:HB3	1:C:98:TYR:HD2	1.58	0.69
1:C:62:ILE:HD12	1:C:94:LEU:HB2	1.75	0.69
1:C:327:VAL:HG11	1:C:367:LEU:CB	2.21	0.69
1:D:16:GLU:HA	1:D:83:LEU:HD22	1.75	0.69
1:F:412:ILE:HG23	1:F:433:ILE:CD1	2.23	0.69
1:H:40:GLN:HB3	1:H:98:TYR:HD2	1.58	0.69
1:H:260:PRO:HB2	1:H:273:LEU:HD13	1.75	0.69
1:B:219:PHE:O	1:B:220:ARG:HG3	1.85	0.69
1:B:660:ILE:CG2	1:B:661:ALA:H	2.05	0.69
1:C:485:PHE:CD2	1:D:485:PHE:CD2	2.80	0.69
1:E:40:GLN:HB3	1:E:98:TYR:HD2	1.58	0.69
1:E:478:GLN:HB2	1:F:478:GLN:HA	1.75	0.69
1:E:500:GLN:HB3	1:E:505:ILE:HG12	1.73	0.69
1:F:497:TYR:HE2	1:F:511:LEU:HD22	1.52	0.69
1:H:143:HIS:CE1	1:H:167:LEU:HB2	2.28	0.69
1:B:62:ILE:HD12	1:B:94:LEU:HB2	1.74	0.68
1:B:496:LYS:O	1:B:499:GLU:HB2	1.94	0.68
1:C:186:LEU:O	1:C:188:TYR:N	2.24	0.68
1:C:496:LYS:O	1:C:499:GLU:HB2	1.93	0.68
1:D:570:LEU:CB	1:D:590:MET:HE2	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:115:CYS:O	1:G:263:ASN:HA	1.93	0.68
1:A:272:LYS:HB2	1:A:306:ILE:HG21	1.73	0.68
1:C:206:TRP:CD1	1:C:206:TRP:C	2.71	0.68
1:C:230:GLN:C	1:C:232:HIS:N	2.44	0.68
1:D:319:SER:OG	1:D:403:LEU:CB	2.41	0.68
1:D:422:THR:HB	1:D:585:GLY:HA2	1.75	0.68
1:D:505:ILE:O	1:D:506:THR:O	2.10	0.68
1:E:120:GLY:H	1:E:122:ILE:H	1.39	0.68
1:C:473:THR:HG21	1:C:533:LEU:HD21	1.76	0.68
1:C:492:ILE:HD13	1:D:651:GLN:NE2	2.04	0.68
1:D:62:ILE:HD12	1:D:94:LEU:HB2	1.75	0.68
1:D:434:TRP:HZ3	1:D:568:ARG:CB	2.05	0.68
1:E:665:VAL:CG2	1:F:665:VAL:CG2	2.71	0.68
1:G:417:PRO:O	1:G:418:LYS:HG3	1.93	0.68
1:G:434:TRP:HZ3	1:G:568:ARG:CG	2.06	0.68
1:A:118:LYS:O	1:A:118:LYS:HG3	1.93	0.68
1:A:120:GLY:H	1:A:122:ILE:H	1.41	0.68
1:B:40:GLN:HB3	1:B:98:TYR:HD2	1.58	0.68
1:E:265:LEU:CD2	1:E:269:LEU:HB3	2.24	0.68
1:E:353:LEU:HB3	1:E:361:LEU:HD12	1.74	0.68
1:F:643:VAL:O	1:F:644:VAL:HG23	1.94	0.68
1:G:134:ARG:HB2	1:G:300:PHE:CE1	2.28	0.68
1:H:265:LEU:CD2	1:H:269:LEU:HB3	2.23	0.68
1:H:433:ILE:CG2	1:H:571:TYR:OH	2.42	0.68
1:A:286:ARG:HA	1:A:290:THR:CG2	2.24	0.68
1:A:517:MET:SD	1:A:650:ARG:CG	2.75	0.68
1:C:260:PRO:HB2	1:C:273:LEU:HD13	1.76	0.68
1:D:412:ILE:HG23	1:D:433:ILE:CD1	2.24	0.68
1:E:16:GLU:HA	1:E:83:LEU:HD22	1.75	0.68
1:G:40:GLN:HB3	1:G:98:TYR:HD2	1.58	0.68
1:G:263:ASN:HD21	1:G:265:LEU:CB	1.99	0.68
1:H:444:CYS:C	1:H:446:ARG:H	2.02	0.68
1:A:16:GLU:HA	1:A:83:LEU:HD22	1.75	0.68
1:C:114:CYS:O	1:C:115:CYS:HB2	1.93	0.68
1:C:549:ARG:O	1:C:550:ASN:HB2	1.93	0.68
1:E:191:PRO:HG3	1:E:234:LYS:NZ	2.08	0.68
1:E:486:PHE:HZ	1:E:517:MET:CE	2.05	0.68
1:F:16:GLU:HA	1:F:83:LEU:HD22	1.75	0.68
1:F:316:ASN:O	1:F:388:PHE:O	2.12	0.68
1:G:536:LYS:O	1:G:625:LEU:HD13	1.94	0.68
1:H:120:GLY:H	1:H:122:ILE:H	1.42	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:16:GLU:HA	1:C:83:LEU:HD22	1.76	0.68
1:C:286:ARG:NH1	1:C:286:ARG:HG2	2.08	0.68
1:D:409:SER:HB2	1:D:412:ILE:HD12	1.76	0.68
1:E:570:LEU:CB	1:E:590:MET:HE2	2.23	0.68
1:G:143:HIS:CE1	1:G:167:LEU:HB2	2.28	0.68
1:H:417:PRO:O	1:H:418:LYS:HG3	1.92	0.68
1:A:224:PRO:HG2	1:A:255:PHE:CE2	2.29	0.68
1:A:549:ARG:O	1:A:550:ASN:HB2	1.94	0.68
1:B:412:ILE:HG23	1:B:433:ILE:CD1	2.24	0.68
1:B:438:ARG:HG2	1:B:564:GLU:HG3	1.75	0.68
1:B:505:ILE:O	1:B:506:THR:O	2.11	0.68
1:D:419:ARG:N	1:D:420:PRO:HD3	2.04	0.68
1:D:494:LEU:HD12	1:D:514:TRP:CE3	2.22	0.68
1:F:62:ILE:HD12	1:F:94:LEU:HB2	1.74	0.68
1:F:417:PRO:O	1:F:418:LYS:HG3	1.93	0.68
1:H:394:LYS:HE2	1:H:401:ILE:HA	1.75	0.68
1:A:105:ARG:O	1:A:106:LYS:C	2.36	0.68
1:B:434:TRP:HZ3	1:B:568:ARG:HG3	1.59	0.68
1:C:409:SER:HB2	1:C:412:ILE:HD12	1.74	0.68
1:C:417:PRO:O	1:C:418:LYS:HG3	1.93	0.68
1:F:40:GLN:HB3	1:F:98:TYR:HD2	1.59	0.68
1:F:350:GLU:HG2	1:F:391:ASP:HB2	1.76	0.68
1:F:570:LEU:HB3	1:F:590:MET:HE3	1.75	0.68
1:D:286:ARG:HG2	1:D:286:ARG:NH1	2.08	0.68
1:D:479:LEU:HB3	1:D:640:GLU:OE2	1.94	0.68
1:D:643:VAL:O	1:D:644:VAL:HG23	1.94	0.68
1:F:434:TRP:HB3	1:F:571:TYR:HD1	1.51	0.68
1:G:16:GLU:HA	1:G:83:LEU:HD22	1.76	0.68
1:G:118:LYS:HG3	1:G:118:LYS:O	1.93	0.68
1:G:219:PHE:O	1:G:220:ARG:HG3	1.88	0.68
1:H:16:GLU:HA	1:H:83:LEU:HD22	1.74	0.68
1:H:115:CYS:CB	1:H:435:GLN:HG3	2.24	0.68
1:H:179:CYS:CB	1:H:181:GLU:CG	2.66	0.68
1:H:536:LYS:HB3	1:H:625:LEU:HD22	1.74	0.68
1:B:387:ILE:HD11	1:B:449:GLN:HG3	1.76	0.67
1:C:394:LYS:CG	1:C:613:SER:HB2	2.24	0.67
1:D:111:PHE:HZ	1:D:572:ARG:HG3	1.57	0.67
1:E:286:ARG:NH1	1:E:286:ARG:HG2	2.09	0.67
1:E:643:VAL:O	1:E:644:VAL:HG23	1.93	0.67
1:F:254:LYS:O	1:F:255:PHE:CD2	2.47	0.67
1:A:118:LYS:CG	1:A:265:LEU:HA	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:134:ARG:CA	1:A:300:PHE:HZ	2.06	0.67
1:A:318:VAL:O	1:A:320:GLY:N	2.27	0.67
1:B:254:LYS:O	1:B:255:PHE:CD2	2.46	0.67
1:D:219:PHE:O	1:D:220:ARG:HG3	1.82	0.67
1:G:118:LYS:HG2	1:G:264:HIS:O	1.95	0.67
1:G:230:GLN:C	1:G:232:HIS:N	2.44	0.67
1:H:571:TYR:CE2	1:H:590:MET:HG3	2.29	0.67
1:B:571:TYR:CE2	1:B:590:MET:HG3	2.29	0.67
1:C:654:LEU:HD22	1:D:654:LEU:CD2	2.25	0.67
1:D:496:LYS:O	1:D:499:GLU:HB2	1.93	0.67
1:G:318:VAL:O	1:G:320:GLY:N	2.28	0.67
1:H:286:ARG:NH1	1:H:286:ARG:HG2	2.09	0.67
1:H:475:GLU:CD	1:H:636:MET:HE1	2.20	0.67
1:A:643:VAL:O	1:A:644:VAL:HG23	1.94	0.67
1:B:18:LYS:HZ2	1:B:33:ILE:HG21	1.58	0.67
1:B:105:ARG:O	1:B:106:LYS:C	2.38	0.67
1:B:244:VAL:HG12	1:B:278:GLN:OE1	1.94	0.67
1:B:479:LEU:O	1:B:640:GLU:OE2	2.13	0.67
1:D:417:PRO:O	1:D:418:LYS:HG3	1.93	0.67
1:C:253:VAL:HB	1:C:255:PHE:HZ	1.58	0.67
1:C:283:TRP:O	1:C:284:HIS:HB2	1.94	0.67
1:F:505:ILE:O	1:F:506:THR:O	2.13	0.67
1:A:505:ILE:O	1:A:506:THR:O	2.12	0.67
1:B:409:SER:HB2	1:B:412:ILE:HD12	1.76	0.67
1:C:412:ILE:HG23	1:C:433:ILE:CD1	2.24	0.67
1:D:418:LYS:O	1:D:419:ARG:HB2	1.95	0.67
1:D:438:ARG:CG	1:D:564:GLU:HG3	2.25	0.67
1:E:350:GLU:HG2	1:E:391:ASP:HB2	1.76	0.67
1:F:503:PHE:H	1:F:505:ILE:HD11	1.59	0.67
1:G:62:ILE:HD12	1:G:94:LEU:HB2	1.76	0.67
1:G:71:PRO:O	1:G:72:ASN:HB2	1.94	0.67
1:G:179:CYS:CB	1:G:181:GLU:CG	2.67	0.67
1:G:419:ARG:N	1:G:420:PRO:HD3	2.03	0.67
1:A:105:ARG:O	1:A:108:LEU:N	2.28	0.67
1:D:105:ARG:O	1:D:106:LYS:C	2.38	0.67
1:F:143:HIS:CE1	1:F:167:LEU:HB2	2.29	0.67
1:G:260:PRO:HB2	1:G:273:LEU:HD13	1.77	0.67
1:H:322:VAL:HG12	1:H:323:HIS:N	2.10	0.67
1:H:455:MET:HE1	1:H:548:GLN:HA	1.76	0.67
1:H:549:ARG:O	1:H:550:ASN:HB2	1.95	0.67
1:E:412:ILE:HG23	1:E:433:ILE:HD12	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:422:THR:HG22	1:E:426:LEU:HD21	1.77	0.67
1:G:262:PRO:HB3	1:G:409:SER:OG	1.94	0.67
1:G:286:ARG:HA	1:G:290:THR:CG2	2.24	0.67
1:G:473:THR:HG22	1:G:633:MET:HG3	1.74	0.67
1:H:409:SER:HB2	1:H:412:ILE:HD12	1.74	0.67
1:H:419:ARG:HA	1:H:587:SER:OG	1.94	0.67
1:B:350:GLU:HG2	1:B:391:ASP:HB2	1.75	0.67
1:C:254:LYS:O	1:C:255:PHE:CD2	2.47	0.67
1:D:40:GLN:HB3	1:D:98:TYR:HD2	1.59	0.67
1:E:206:TRP:CD1	1:E:206:TRP:C	2.73	0.67
1:G:245:VAL:O	1:G:257:SER:O	2.13	0.67
1:G:265:LEU:CD2	1:G:269:LEU:HB3	2.25	0.67
1:B:260:PRO:HB2	1:B:273:LEU:HD13	1.78	0.67
1:B:501:MET:C	1:B:505:ILE:HD11	2.20	0.67
1:C:105:ARG:O	1:C:106:LYS:C	2.38	0.67
1:C:118:LYS:HG2	1:C:265:LEU:HA	1.77	0.67
1:D:143:HIS:CE1	1:D:167:LEU:HB2	2.30	0.67
1:D:263:ASN:HD21	1:D:265:LEU:CB	1.99	0.67
1:E:263:ASN:ND2	1:E:265:LEU:H	1.93	0.67
1:F:286:ARG:NH1	1:F:286:ARG:HG2	2.09	0.67
1:G:105:ARG:O	1:G:108:LEU:N	2.28	0.67
1:G:114:CYS:O	1:G:115:CYS:HB2	1.95	0.67
1:G:549:ARG:O	1:G:550:ASN:HB2	1.95	0.67
1:A:462:ASN:HD21	1:A:540:LEU:HB2	1.60	0.66
1:D:260:PRO:HB2	1:D:273:LEU:HD13	1.75	0.66
1:E:486:PHE:HZ	1:E:517:MET:HE2	1.58	0.66
1:A:143:HIS:CE1	1:A:167:LEU:HB2	2.30	0.66
1:C:422:THR:CB	1:C:585:GLY:C	2.67	0.66
1:C:658:LEU:HD12	1:D:658:LEU:HA	1.76	0.66
1:D:120:GLY:O	1:D:123:ARG:N	2.29	0.66
1:D:254:LYS:O	1:D:255:PHE:CD2	2.48	0.66
1:F:105:ARG:O	1:F:106:LYS:C	2.38	0.66
1:F:260:PRO:HB2	1:F:273:LEU:HD13	1.78	0.66
1:G:191:PRO:HG3	1:G:234:LYS:NZ	2.10	0.66
1:A:254:LYS:O	1:A:255:PHE:CD2	2.49	0.66
1:A:496:LYS:O	1:A:499:GLU:HB2	1.96	0.66
1:A:527:GLU:C	1:A:529:GLU:H	2.02	0.66
1:B:402:SER:O	1:B:403:LEU:HB2	1.95	0.66
1:C:496:LYS:HB2	1:D:655:TRP:CD1	2.25	0.66
1:D:224:PRO:HG2	1:D:255:PHE:CE2	2.30	0.66
1:E:462:ASN:ND2	1:E:540:LEU:HB2	2.09	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:549:ARG:O	1:E:550:ASN:HB2	1.93	0.66
1:E:651:GLN:HE22	1:F:492:ILE:CG2	2.04	0.66
1:G:424:THR:OG1	1:G:425:HIS:ND1	2.20	0.66
1:G:475:GLU:HG2	1:G:636:MET:HE3	1.73	0.66
1:G:609:TYR:O	1:G:612:LEU:HB3	1.95	0.66
1:B:143:HIS:CE1	1:B:167:LEU:HB2	2.30	0.66
1:B:316:ASN:O	1:B:388:PHE:O	2.13	0.66
1:C:263:ASN:ND2	1:C:265:LEU:H	1.94	0.66
1:C:505:ILE:O	1:C:506:THR:O	2.12	0.66
1:D:179:CYS:CB	1:D:181:GLU:CG	2.67	0.66
1:E:492:ILE:CG2	1:F:651:GLN:HE22	2.07	0.66
1:F:224:PRO:HG2	1:F:255:PHE:CE2	2.31	0.66
1:F:433:ILE:HB	1:F:571:TYR:CZ	2.29	0.66
1:G:254:LYS:O	1:G:255:PHE:CD2	2.48	0.66
1:H:118:LYS:NZ	1:H:123:ARG:HH22	1.94	0.66
1:A:114:CYS:O	1:A:115:CYS:HB2	1.95	0.66
1:B:118:LYS:NZ	1:B:123:ARG:HH22	1.93	0.66
1:C:26:PHE:CE2	1:C:181:GLU:OE1	2.46	0.66
1:C:115:CYS:HB2	1:C:435:GLN:HG3	1.77	0.66
1:C:208:PHE:HD2	1:C:211:LEU:HD23	1.61	0.66
1:C:514:TRP:O	1:C:518:GLU:N	2.28	0.66
1:D:549:ARG:O	1:D:550:ASN:HB2	1.94	0.66
1:B:626:SER:HB2	1:B:630:LYS:HE3	1.77	0.66
1:C:433:ILE:HB	1:C:571:TYR:OH	1.96	0.66
1:C:434:TRP:HZ3	1:C:568:ARG:HG3	1.60	0.66
1:E:118:LYS:CG	1:E:265:LEU:HA	2.26	0.66
1:E:418:LYS:O	1:E:419:ARG:HB2	1.96	0.66
1:F:286:ARG:HA	1:F:290:THR:CG2	2.24	0.66
1:F:416:ASP:CG	1:F:417:PRO:HD3	2.21	0.66
1:F:500:GLN:HB3	1:F:505:ILE:CG1	2.26	0.66
1:B:179:CYS:CB	1:B:181:GLU:CG	2.69	0.66
1:C:402:SER:O	1:C:403:LEU:HB2	1.96	0.66
1:D:422:THR:HB	1:D:585:GLY:HA3	1.75	0.66
1:D:517:MET:HG3	1:D:646:ARG:HH11	1.60	0.66
1:E:118:LYS:NZ	1:E:123:ARG:HH22	1.94	0.66
1:F:357:SER:CA	1:F:453:THR:HB	2.25	0.66
1:G:134:ARG:CA	1:G:300:PHE:HZ	2.09	0.66
1:G:253:VAL:HB	1:G:255:PHE:HZ	1.59	0.66
1:G:286:ARG:HG2	1:G:286:ARG:NH1	2.08	0.66
1:A:253:VAL:HB	1:A:255:PHE:HZ	1.60	0.66
1:C:193:LEU:O	1:C:196:GLN:OE1	2.13	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:418:LYS:O	1:C:419:ARG:HB2	1.94	0.66
1:C:529:GLU:HG3	1:C:633:MET:HE1	1.78	0.66
1:E:105:ARG:O	1:E:106:LYS:C	2.38	0.66
1:F:494:LEU:HD12	1:F:514:TRP:HE3	1.59	0.66
1:G:350:GLU:HG2	1:G:391:ASP:HB2	1.77	0.66
1:H:438:ARG:NH1	1:H:568:ARG:HH21	1.93	0.66
1:C:626:SER:HB2	1:C:630:LYS:HE3	1.78	0.66
1:E:179:CYS:CB	1:E:181:GLU:CG	2.68	0.66
1:A:40:GLN:HB3	1:A:98:TYR:HD2	1.60	0.66
1:C:373:ASP:C	1:C:374:CYS:SG	2.79	0.66
1:C:659:LYS:HG2	1:D:500:GLN:HE22	1.60	0.66
1:E:49:GLU:HA	1:E:55:ARG:HD3	1.78	0.66
1:E:422:THR:CB	1:E:585:GLY:C	2.69	0.66
1:F:549:ARG:O	1:F:550:ASN:HB2	1.94	0.66
1:H:224:PRO:HG3	1:H:428:ARG:HH22	1.61	0.66
1:B:245:VAL:O	1:B:257:SER:O	2.14	0.65
1:B:394:LYS:CD	1:B:401:ILE:HA	2.26	0.65
1:D:550:ASN:OD1	1:D:611:GLN:OE1	2.14	0.65
1:E:665:VAL:HG13	1:F:665:VAL:HG13	1.78	0.65
1:F:430:TRP:HB3	1:F:571:TYR:HD2	1.61	0.65
1:G:49:GLU:HA	1:G:55:ARG:HD3	1.78	0.65
1:G:473:THR:CG2	1:G:533:LEU:HD22	2.22	0.65
1:A:260:PRO:HG3	1:A:274:GLU:HG2	1.79	0.65
1:A:418:LYS:O	1:A:419:ARG:HB2	1.95	0.65
1:A:422:THR:HG22	1:A:426:LEU:HD21	1.78	0.65
1:A:654:LEU:CD2	1:B:654:LEU:HD22	2.19	0.65
1:B:71:PRO:O	1:B:72:ASN:HB2	1.96	0.65
1:B:540:LEU:CD2	1:B:621:LYS:HZ2	2.09	0.65
1:C:71:PRO:O	1:C:72:ASN:HB2	1.95	0.65
1:D:105:ARG:O	1:D:108:LEU:N	2.29	0.65
1:E:153:LEU:CD2	1:E:162:HIS:HD1	2.08	0.65
1:E:283:TRP:O	1:E:284:HIS:HB2	1.94	0.65
1:F:418:LYS:O	1:F:419:ARG:HB2	1.95	0.65
1:G:206:TRP:C	1:G:206:TRP:CD1	2.74	0.65
1:H:49:GLU:HA	1:H:55:ARG:HD3	1.78	0.65
1:A:503:PHE:CD1	1:B:666:ARG:HB2	2.31	0.65
1:A:654:LEU:HD23	1:B:654:LEU:HD21	1.75	0.65
1:B:479:LEU:CB	1:B:640:GLU:OE2	2.36	0.65
1:G:120:GLY:H	1:G:122:ILE:H	1.44	0.65
1:G:444:CYS:C	1:G:446:ARG:H	2.04	0.65
1:A:16:GLU:HG2	1:A:83:LEU:HD13	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:265:LEU:CD2	1:A:269:LEU:HB3	2.27	0.65
1:B:286:ARG:HG2	1:B:286:ARG:HH11	1.60	0.65
1:C:244:VAL:HG12	1:C:278:GLN:OE1	1.97	0.65
1:C:245:VAL:O	1:C:257:SER:O	2.14	0.65
1:D:265:LEU:CD2	1:D:269:LEU:HB3	2.26	0.65
1:E:341:GLN:OE1	1:E:347:PRO:HB3	1.96	0.65
1:F:116:GLY:HA2	1:F:217:THR:O	1.95	0.65
1:F:419:ARG:N	1:F:420:PRO:HD3	2.03	0.65
1:F:422:THR:HB	1:F:585:GLY:HA2	1.77	0.65
1:H:107:TYR:HE1	1:H:153:LEU:HB2	1.61	0.65
1:H:260:PRO:HG3	1:H:274:GLU:HG2	1.77	0.65
1:C:571:TYR:CZ	1:C:590:MET:SD	2.90	0.65
1:D:644:VAL:CA	1:D:647:GLN:HE21	2.08	0.65
1:E:198:LYS:C	1:E:200:THR:H	2.04	0.65
1:F:49:GLU:HA	1:F:55:ARG:HD3	1.78	0.65
1:G:387:ILE:HD12	1:G:450:GLY:HA2	1.79	0.65
1:G:438:ARG:HG2	1:G:564:GLU:CD	2.20	0.65
1:G:533:LEU:CD2	1:G:629:VAL:HG13	2.25	0.65
1:A:260:PRO:HB2	1:A:273:LEU:HD13	1.79	0.65
1:C:105:ARG:O	1:C:108:LEU:N	2.30	0.65
1:C:192:GLU:OE1	1:C:192:GLU:HA	1.96	0.65
1:C:503:PHE:O	1:C:505:ILE:HG13	1.97	0.65
1:E:412:ILE:HG23	1:E:433:ILE:CD1	2.26	0.65
1:E:486:PHE:CE1	1:E:647:GLN:HB3	2.31	0.65
1:E:505:ILE:O	1:E:506:THR:O	2.14	0.65
1:F:244:VAL:HG12	1:F:278:GLN:OE1	1.96	0.65
1:F:318:VAL:O	1:F:320:GLY:N	2.30	0.65
1:F:319:SER:OG	1:F:403:LEU:HB2	1.97	0.65
1:G:443:ASP:O	1:G:446:ARG:HB2	1.96	0.65
1:H:350:GLU:HG2	1:H:391:ASP:HB2	1.77	0.65
1:H:416:ASP:CG	1:H:417:PRO:HD3	2.22	0.65
1:A:350:GLU:HG2	1:A:391:ASP:HB2	1.78	0.65
1:B:476:CYS:CA	1:B:636:MET:SD	2.84	0.65
1:D:118:LYS:HG3	1:D:118:LYS:O	1.96	0.65
1:E:18:LYS:HZ2	1:E:33:ILE:HG21	1.60	0.65
1:E:143:HIS:CE1	1:E:167:LEU:HB2	2.30	0.65
1:F:114:CYS:O	1:F:115:CYS:HB2	1.95	0.65
1:G:571:TYR:CE2	1:G:590:MET:HG3	2.31	0.65
1:A:49:GLU:HA	1:A:55:ARG:HD3	1.79	0.65
1:A:434:TRP:HZ3	1:A:568:ARG:CG	2.09	0.65
1:C:193:LEU:HD22	1:C:231:TRP:CD1	2.32	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:253:VAL:HB	1:D:255:PHE:HZ	1.58	0.65
1:F:191:PRO:HG3	1:F:234:LYS:NZ	2.11	0.65
1:F:317:MET:HE3	1:F:609:TYR:CZ	2.32	0.65
1:G:118:LYS:NZ	1:G:123:ARG:HH22	1.94	0.65
1:H:71:PRO:O	1:H:72:ASN:HB2	1.95	0.65
1:H:451:GLN:CD	1:H:611:GLN:HE22	2.03	0.65
1:A:286:ARG:HG2	1:A:286:ARG:HH11	1.60	0.65
1:A:357:SER:HA	1:A:453:THR:HB	1.78	0.65
1:A:610:ASP:O	1:A:613:SER:HB3	1.96	0.65
1:B:224:PRO:HG2	1:B:255:PHE:CE2	2.32	0.65
1:B:422:THR:HB	1:B:585:GLY:HA3	1.78	0.65
1:B:514:TRP:O	1:B:518:GLU:N	2.29	0.65
1:B:549:ARG:O	1:B:550:ASN:HB2	1.96	0.65
1:C:318:VAL:O	1:C:320:GLY:N	2.29	0.65
1:C:434:TRP:HZ3	1:C:568:ARG:HA	1.60	0.65
1:D:441:LYS:HB2	1:D:560:LEU:HD21	1.78	0.65
1:G:224:PRO:HG2	1:G:255:PHE:CE2	2.31	0.65
1:H:230:GLN:C	1:H:232:HIS:N	2.44	0.65
1:H:283:TRP:O	1:H:284:HIS:HB2	1.95	0.65
1:H:418:LYS:O	1:H:419:ARG:HB2	1.95	0.65
1:A:478:GLN:HB2	1:B:478:GLN:HB2	1.77	0.65
1:B:475:GLU:HG2	1:B:476:CYS:N	2.12	0.65
1:D:119:GLU:CB	1:D:121:PRO:CD	2.75	0.65
1:D:610:ASP:O	1:D:613:SER:HB3	1.97	0.65
1:E:16:GLU:HG2	1:E:83:LEU:HD13	1.79	0.65
1:E:260:PRO:HB2	1:E:273:LEU:HD13	1.79	0.65
1:E:434:TRP:HB3	1:E:571:TYR:HD1	1.60	0.65
1:E:496:LYS:O	1:E:499:GLU:HB2	1.97	0.65
1:F:422:THR:HG22	1:F:426:LEU:HD21	1.78	0.65
1:H:193:LEU:O	1:H:196:GLN:OE1	2.14	0.65
1:A:193:LEU:HD22	1:A:231:TRP:CD1	2.32	0.64
1:A:417:PRO:O	1:A:418:LYS:HG3	1.96	0.64
1:A:533:LEU:CD2	1:A:629:VAL:HG11	2.21	0.64
1:C:49:GLU:HA	1:C:55:ARG:HD3	1.78	0.64
1:C:384:GLY:O	1:C:385:ASP:HB2	1.96	0.64
1:D:387:ILE:HG21	1:D:450:GLY:CA	2.28	0.64
1:D:476:CYS:HA	1:D:636:MET:SD	2.38	0.64
1:D:497:TYR:HE2	1:D:511:LEU:HD22	1.59	0.64
1:E:244:VAL:HG12	1:E:278:GLN:OE1	1.97	0.64
1:F:222:PHE:CG	1:F:255:PHE:HB3	2.32	0.64
1:H:402:SER:O	1:H:403:LEU:HB2	1.96	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:71:PRO:O	1:A:72:ASN:HB2	1.96	0.64
1:A:412:ILE:HG23	1:A:433:ILE:CD1	2.27	0.64
1:B:230:GLN:C	1:B:232:HIS:N	2.43	0.64
1:B:260:PRO:HG3	1:B:274:GLU:HG2	1.78	0.64
1:B:283:TRP:O	1:B:284:HIS:HB2	1.97	0.64
1:C:16:GLU:HG2	1:C:83:LEU:HD13	1.79	0.64
1:C:118:LYS:CG	1:C:265:LEU:HA	2.28	0.64
1:C:581:GLN:O	1:C:584:PRO:HD2	1.97	0.64
1:D:110:GLN:O	1:D:111:PHE:CB	2.37	0.64
1:D:318:VAL:O	1:D:320:GLY:N	2.30	0.64
1:E:654:LEU:HD12	1:F:655:TRP:CZ3	2.31	0.64
1:F:437:ILE:HG13	1:F:594:LEU:CD1	2.27	0.64
1:F:517:MET:HE1	1:F:647:GLN:OE1	1.96	0.64
1:G:118:LYS:HG2	1:G:265:LEU:HA	1.77	0.64
1:G:260:PRO:HG3	1:G:274:GLU:HG2	1.78	0.64
1:H:206:TRP:CD1	1:H:206:TRP:C	2.74	0.64
1:H:318:VAL:O	1:H:320:GLY:N	2.30	0.64
1:B:118:LYS:HG3	1:B:118:LYS:O	1.96	0.64
1:C:632:VAL:C	1:C:633:MET:SD	2.81	0.64
1:E:120:GLY:O	1:E:123:ARG:N	2.31	0.64
1:F:118:LYS:NZ	1:F:123:ARG:HH22	1.95	0.64
1:F:479:LEU:HD11	1:F:641:LYS:HG3	1.79	0.64
1:F:503:PHE:C	1:F:505:ILE:H	2.05	0.64
1:G:198:LYS:C	1:G:200:THR:H	2.05	0.64
1:G:581:GLN:O	1:G:584:PRO:HD2	1.98	0.64
1:A:514:TRP:O	1:A:518:GLU:N	2.30	0.64
1:E:118:LYS:HG2	1:E:265:LEU:HA	1.77	0.64
1:F:105:ARG:O	1:F:108:LEU:N	2.31	0.64
1:F:206:TRP:CD1	1:F:206:TRP:C	2.76	0.64
1:G:107:TYR:HE1	1:G:153:LEU:HB2	1.62	0.64
1:A:115:CYS:O	1:A:263:ASN:HA	1.98	0.64
1:A:455:MET:HE2	1:A:455:MET:O	1.96	0.64
1:B:246:TYR:CD1	1:B:258:VAL:CB	2.70	0.64
1:C:143:HIS:CE1	1:C:167:LEU:HB2	2.31	0.64
1:D:105:ARG:O	1:D:107:TYR:N	2.31	0.64
1:D:114:CYS:O	1:D:115:CYS:HB2	1.96	0.64
1:D:244:VAL:HG12	1:D:278:GLN:OE1	1.97	0.64
1:D:416:ASP:CG	1:D:417:PRO:HD3	2.22	0.64
1:D:632:VAL:C	1:D:633:MET:SD	2.81	0.64
1:F:253:VAL:HB	1:F:255:PHE:HZ	1.60	0.64
1:F:644:VAL:CA	1:F:647:GLN:HE21	2.10	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:244:VAL:HG12	1:G:278:GLN:OE1	1.97	0.64
1:H:434:TRP:HZ3	1:H:568:ARG:CA	2.10	0.64
1:H:437:ILE:HG22	1:H:564:GLU:HB2	1.78	0.64
1:A:70:HIS:CD2	1:A:71:PRO:O	2.51	0.64
1:C:224:PRO:HG2	1:C:255:PHE:CE2	2.33	0.64
1:C:341:GLN:OE1	1:C:347:PRO:HB3	1.97	0.64
1:C:529:GLU:HG3	1:C:633:MET:CE	2.27	0.64
1:D:49:GLU:HA	1:D:55:ARG:HD3	1.78	0.64
1:D:387:ILE:HD11	1:D:449:GLN:CG	2.28	0.64
1:D:387:ILE:HD12	1:D:450:GLY:N	2.12	0.64
1:F:402:SER:O	1:F:403:LEU:HB2	1.96	0.64
1:G:16:GLU:HG2	1:G:83:LEU:HD13	1.79	0.64
1:G:418:LYS:O	1:G:419:ARG:HB2	1.95	0.64
1:H:105:ARG:O	1:H:108:LEU:N	2.31	0.64
1:H:171:LYS:HA	1:H:177:GLU:HA	1.80	0.64
1:A:118:LYS:NZ	1:A:123:ARG:HH22	1.96	0.64
1:A:193:LEU:O	1:A:196:GLN:OE1	2.16	0.64
1:A:433:ILE:HB	1:A:571:TYR:OH	1.97	0.64
1:A:503:PHE:HE1	1:B:666:ARG:HG3	1.62	0.64
1:A:547:LEU:HD12	1:A:615:THR:HG22	1.77	0.64
1:B:418:LYS:O	1:B:419:ARG:HB2	1.95	0.64
1:B:443:ASP:O	1:B:446:ARG:HB2	1.97	0.64
1:D:16:GLU:HG2	1:D:83:LEU:HD13	1.78	0.64
1:E:665:VAL:HG21	1:F:665:VAL:HG22	1.78	0.64
1:H:222:PHE:CG	1:H:255:PHE:HB3	2.33	0.64
1:H:422:THR:HG22	1:H:426:LEU:HD21	1.80	0.64
1:A:244:VAL:HG12	1:A:278:GLN:OE1	1.96	0.64
1:A:386:LEU:H	1:A:386:LEU:HD12	1.63	0.64
1:B:107:TYR:HE1	1:B:153:LEU:HB2	1.63	0.64
1:E:455:MET:HE2	1:E:455:MET:O	1.97	0.64
1:G:200:THR:O	1:G:201:VAL:C	2.41	0.64
1:G:416:ASP:CG	1:G:417:PRO:HD3	2.23	0.64
1:B:384:GLY:O	1:B:385:ASP:HB2	1.97	0.64
1:B:387:ILE:CD1	1:B:450:GLY:CA	2.74	0.64
1:B:416:ASP:CG	1:B:417:PRO:HD3	2.23	0.64
1:B:455:MET:HE2	1:B:455:MET:O	1.97	0.64
1:C:286:ARG:HG2	1:C:286:ARG:HH11	1.62	0.64
1:C:485:PHE:CE2	1:D:485:PHE:CG	2.85	0.64
1:D:245:VAL:O	1:D:257:SER:O	2.16	0.64
1:D:394:LYS:HE3	1:D:609:TYR:C	2.22	0.64
1:E:245:VAL:O	1:E:257:SER:O	2.15	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:260:PRO:HG3	1:F:274:GLU:HG2	1.79	0.64
1:H:193:LEU:CD2	1:H:231:TRP:CD1	2.80	0.64
1:B:644:VAL:CA	1:B:647:GLN:HE21	2.09	0.64
1:C:119:GLU:CB	1:C:121:PRO:CD	2.76	0.64
1:C:260:PRO:HG3	1:C:274:GLU:HG2	1.78	0.64
1:C:315:MET:HE3	1:C:447:LEU:HD23	1.78	0.64
1:C:316:ASN:O	1:C:317:MET:HB2	1.98	0.64
1:D:111:PHE:CZ	1:D:572:ARG:HG3	2.33	0.64
1:D:350:GLU:HA	1:D:391:ASP:OD2	1.98	0.64
1:D:581:GLN:O	1:D:584:PRO:HD2	1.98	0.64
1:F:153:LEU:CD2	1:F:162:HIS:HD1	2.11	0.64
1:F:387:ILE:CD1	1:F:450:GLY:N	2.60	0.64
1:F:402:SER:HA	1:F:609:TYR:CG	2.33	0.64
1:G:334:GLN:HA	1:G:337:LYS:HB2	1.80	0.64
1:G:402:SER:O	1:G:403:LEU:HB2	1.98	0.64
1:B:49:GLU:HA	1:B:55:ARG:HD3	1.79	0.63
1:B:433:ILE:HB	1:B:571:TYR:OH	1.98	0.63
1:B:503:PHE:H	1:B:505:ILE:HD11	1.62	0.63
1:C:120:GLY:H	1:C:122:ILE:H	1.45	0.63
1:D:171:LYS:HA	1:D:177:GLU:HA	1.80	0.63
1:E:71:PRO:O	1:E:72:ASN:HB2	1.97	0.63
1:F:220:ARG:HH12	1:F:223:LEU:CD2	2.10	0.63
1:F:352:GLU:O	1:F:388:PHE:HA	1.99	0.63
1:F:626:SER:HB2	1:F:630:LYS:HE3	1.78	0.63
1:G:412:ILE:HG23	1:G:433:ILE:CD1	2.28	0.63
1:H:145:ASP:OD1	1:H:167:LEU:HD13	1.97	0.63
1:H:224:PRO:HG2	1:H:255:PHE:CE2	2.34	0.63
1:H:245:VAL:O	1:H:257:SER:O	2.16	0.63
1:B:16:GLU:HG2	1:B:83:LEU:HD13	1.79	0.63
1:B:408:GLU:O	1:B:409:SER:HB2	1.98	0.63
1:C:200:THR:O	1:C:201:VAL:C	2.41	0.63
1:D:193:LEU:O	1:D:196:GLN:OE1	2.16	0.63
1:E:105:ARG:O	1:E:108:LEU:N	2.30	0.63
1:E:193:LEU:O	1:E:196:GLN:OE1	2.16	0.63
1:E:473:THR:CG2	1:E:533:LEU:CD2	2.70	0.63
1:E:514:TRP:O	1:E:518:GLU:N	2.31	0.63
1:G:111:PHE:CZ	1:G:572:ARG:CG	2.70	0.63
1:G:153:LEU:CD2	1:G:162:HIS:HD1	2.11	0.63
1:H:70:HIS:CD2	1:H:71:PRO:O	2.52	0.63
1:H:422:THR:HB	1:H:585:GLY:C	2.22	0.63
1:A:145:ASP:OD1	1:A:167:LEU:HD13	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:107:TYR:HE1	1:C:153:LEU:HB2	1.63	0.63
1:C:573:ARG:HH22	1:D:573:ARG:NH1	1.95	0.63
1:D:70:HIS:CD2	1:D:71:PRO:O	2.51	0.63
1:D:246:TYR:CD1	1:D:258:VAL:CB	2.70	0.63
1:D:434:TRP:CE3	1:D:568:ARG:CA	2.68	0.63
1:E:416:ASP:CG	1:E:417:PRO:HD3	2.23	0.63
1:F:567:ALA:HA	1:F:590:MET:HE1	1.79	0.63
1:G:70:HIS:CD2	1:G:71:PRO:O	2.51	0.63
1:G:422:THR:HG22	1:G:426:LEU:HD21	1.80	0.63
1:A:105:ARG:O	1:A:107:TYR:N	2.31	0.63
1:B:70:HIS:CD2	1:B:71:PRO:O	2.52	0.63
1:B:120:GLY:HA2	1:B:123:ARG:H	1.63	0.63
1:C:362:ASN:C	1:C:364:ALA:H	2.07	0.63
1:C:416:ASP:CG	1:C:417:PRO:HD3	2.22	0.63
1:G:220:ARG:HH12	1:G:223:LEU:CD2	2.12	0.63
1:B:262:PRO:HB3	1:B:409:SER:HG	1.62	0.63
1:B:265:LEU:CD2	1:B:269:LEU:HB3	2.27	0.63
1:B:389:LEU:HD11	1:B:454:SER:OG	1.99	0.63
1:D:222:PHE:CG	1:D:255:PHE:HB3	2.34	0.63
1:D:352:GLU:O	1:D:388:PHE:HA	1.99	0.63
1:D:402:SER:O	1:D:403:LEU:HB2	1.99	0.63
1:D:402:SER:HA	1:D:609:TYR:CG	2.32	0.63
1:D:408:GLU:O	1:D:409:SER:HB2	1.98	0.63
1:D:434:TRP:HB3	1:D:571:TYR:CE1	2.32	0.63
1:E:433:ILE:HB	1:E:571:TYR:CZ	2.33	0.63
1:F:262:PRO:HB3	1:F:409:SER:HG	1.60	0.63
1:F:581:GLN:O	1:F:584:PRO:HD2	1.98	0.63
1:G:316:ASN:O	1:G:317:MET:HB2	1.96	0.63
1:A:626:SER:HB2	1:A:630:LYS:HE3	1.81	0.63
1:A:651:GLN:NE2	1:B:492:ILE:HG23	2.14	0.63
1:C:265:LEU:CD2	1:C:269:LEU:HB3	2.28	0.63
1:D:208:PHE:HD2	1:D:211:LEU:HD23	1.62	0.63
1:D:260:PRO:HG3	1:D:274:GLU:HG2	1.80	0.63
1:D:438:ARG:NH1	1:D:568:ARG:HH21	1.96	0.63
1:F:484:ASP:C	1:F:486:PHE:N	2.56	0.63
1:G:120:GLY:O	1:G:123:ARG:N	2.32	0.63
1:H:16:GLU:HG2	1:H:83:LEU:HD13	1.79	0.63
1:A:150:ASN:ND2	1:A:167:LEU:HD12	2.11	0.63
1:A:206:TRP:CD1	1:A:206:TRP:C	2.76	0.63
1:B:350:GLU:HA	1:B:391:ASP:OD2	1.98	0.63
1:C:527:GLU:O	1:C:529:GLU:N	2.30	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:71:PRO:O	1:D:72:ASN:HB2	1.98	0.63
1:E:208:PHE:HD2	1:E:211:LEU:HD23	1.63	0.63
1:E:318:VAL:O	1:E:320:GLY:N	2.31	0.63
1:E:581:GLN:O	1:E:584:PRO:HD2	1.98	0.63
1:F:286:ARG:HG2	1:F:286:ARG:HH11	1.64	0.63
1:H:114:CYS:O	1:H:115:CYS:HB2	1.97	0.63
1:H:244:VAL:HG12	1:H:278:GLN:OE1	1.99	0.63
1:H:387:ILE:HG21	1:H:450:GLY:CA	2.25	0.63
1:A:357:SER:CB	1:A:453:THR:HB	2.29	0.63
1:A:438:ARG:NH1	1:A:568:ARG:HH21	1.97	0.63
1:A:665:VAL:HG11	1:B:665:VAL:HG22	1.80	0.63
1:B:120:GLY:O	1:B:123:ARG:N	2.32	0.63
1:B:206:TRP:C	1:B:206:TRP:CD1	2.77	0.63
1:B:484:ASP:C	1:B:486:PHE:N	2.56	0.63
1:C:70:HIS:CD2	1:C:71:PRO:O	2.52	0.63
1:C:145:ASP:OD1	1:C:167:LEU:HD13	1.99	0.63
1:C:644:VAL:CA	1:C:647:GLN:HE21	2.10	0.63
1:C:666:ARG:HG3	1:D:503:PHE:HE1	1.64	0.63
1:E:626:SER:HB2	1:E:630:LYS:HE3	1.81	0.63
1:E:644:VAL:CA	1:E:647:GLN:HE21	2.11	0.63
1:F:71:PRO:O	1:F:72:ASN:HB2	1.98	0.63
1:F:118:LYS:HG3	1:F:118:LYS:O	1.99	0.63
1:G:434:TRP:HZ3	1:G:568:ARG:CA	2.11	0.63
1:A:416:ASP:CG	1:A:417:PRO:HD3	2.24	0.63
1:A:581:GLN:O	1:A:584:PRO:HD2	1.99	0.63
1:B:192:GLU:OE1	1:B:192:GLU:HA	1.99	0.63
1:B:430:TRP:HB3	1:B:571:TYR:CD2	2.30	0.63
1:C:350:GLU:HG2	1:C:391:ASP:HB2	1.79	0.63
1:D:107:TYR:HE1	1:D:153:LEU:HB2	1.64	0.63
1:D:286:ARG:HG2	1:D:286:ARG:HH11	1.64	0.63
1:E:345:GLY:O	1:E:347:PRO:HD3	1.99	0.63
1:F:265:LEU:CD2	1:F:269:LEU:HB3	2.28	0.63
1:F:319:SER:CB	1:F:403:LEU:HB2	2.29	0.63
1:G:134:ARG:HB2	1:G:300:PHE:HE1	1.62	0.63
1:A:419:ARG:HA	1:A:587:SER:OG	1.98	0.62
1:A:430:TRP:CE3	1:A:574:LEU:HD22	2.34	0.62
1:C:118:LYS:HG3	1:C:118:LYS:O	1.97	0.62
1:D:260:PRO:CB	1:D:273:LEU:HD13	2.30	0.62
1:E:222:PHE:CG	1:E:255:PHE:HB3	2.34	0.62
1:F:171:LYS:HA	1:F:177:GLU:HA	1.81	0.62
1:F:514:TRP:O	1:F:518:GLU:N	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:384:GLY:O	1:A:385:ASP:HB2	1.96	0.62
1:A:644:VAL:CA	1:A:647:GLN:HE21	2.10	0.62
1:E:70:HIS:CD2	1:E:71:PRO:O	2.52	0.62
1:E:386:LEU:HD12	1:E:386:LEU:H	1.63	0.62
1:E:517:MET:CE	1:E:647:GLN:OE1	2.47	0.62
1:G:263:ASN:ND2	1:G:265:LEU:H	1.97	0.62
1:H:316:ASN:O	1:H:317:MET:HB2	1.99	0.62
1:A:150:ASN:OD1	1:A:150:ASN:N	2.32	0.62
1:A:494:LEU:HD12	1:A:514:TRP:HE3	1.63	0.62
1:C:500:GLN:HB3	1:C:505:ILE:HG12	1.81	0.62
1:D:143:HIS:CD2	1:D:145:ASP:O	2.51	0.62
1:D:192:GLU:HA	1:D:192:GLU:OE1	1.98	0.62
1:E:350:GLU:HA	1:E:391:ASP:OD2	1.99	0.62
1:E:478:GLN:HA	1:F:478:GLN:HB2	1.81	0.62
1:F:70:HIS:CD2	1:F:71:PRO:O	2.52	0.62
1:G:30:LEU:HD13	1:G:32:TRP:HE1	1.65	0.62
1:G:610:ASP:O	1:G:613:SER:HB3	1.99	0.62
1:H:394:LYS:HG2	1:H:401:ILE:N	2.12	0.62
1:H:581:GLN:O	1:H:584:PRO:HD2	1.99	0.62
1:H:626:SER:HB2	1:H:630:LYS:HE3	1.79	0.62
1:C:260:PRO:CB	1:C:273:LEU:HD13	2.29	0.62
1:E:387:ILE:HD12	1:E:450:GLY:N	2.14	0.62
1:F:143:HIS:CD2	1:F:145:ASP:O	2.51	0.62
1:G:150:ASN:OD1	1:G:150:ASN:N	2.32	0.62
1:G:283:TRP:O	1:G:284:HIS:HB2	1.99	0.62
1:H:63:GLN:O	1:H:67:LYS:HB2	1.99	0.62
1:H:105:ARG:O	1:H:106:LYS:C	2.42	0.62
1:B:134:ARG:CA	1:B:300:PHE:CZ	2.80	0.62
1:C:419:ARG:NH1	1:C:588:ASN:HA	2.14	0.62
1:D:186:LEU:HD23	1:D:227:GLN:HG2	1.81	0.62
1:E:547:LEU:HD22	1:E:611:GLN:CG	2.28	0.62
1:F:447:LEU:HD12	1:F:605:VAL:CG2	2.28	0.62
1:G:17:MET:HA	1:G:33:ILE:O	2.00	0.62
1:G:362:ASN:C	1:G:364:ALA:H	2.06	0.62
1:G:387:ILE:HD13	1:G:450:GLY:HA2	1.79	0.62
1:G:419:ARG:HA	1:G:587:SER:OG	2.00	0.62
1:H:362:ASN:C	1:H:364:ALA:H	2.07	0.62
1:A:208:PHE:HD2	1:A:211:LEU:HD23	1.65	0.62
1:A:263:ASN:ND2	1:A:265:LEU:H	1.96	0.62
1:B:581:GLN:O	1:B:584:PRO:HD2	2.00	0.62
1:D:119:GLU:HB2	1:D:121:PRO:CD	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:362:ASN:C	1:D:364:ALA:H	2.07	0.62
1:E:107:TYR:HE1	1:E:153:LEU:HB2	1.64	0.62
1:F:192:GLU:OE1	1:F:192:GLU:HA	1.98	0.62
1:H:208:PHE:HD2	1:H:211:LEU:HD23	1.63	0.62
1:A:222:PHE:CG	1:A:255:PHE:HB3	2.35	0.62
1:B:222:PHE:CG	1:B:255:PHE:HB3	2.35	0.62
1:B:359:LEU:HA	1:B:460:ARG:HH12	1.64	0.62
1:D:386:LEU:H	1:D:386:LEU:HD12	1.62	0.62
1:E:286:ARG:HG2	1:E:286:ARG:HH11	1.64	0.62
1:F:16:GLU:HG2	1:F:83:LEU:HD13	1.80	0.62
1:F:150:ASN:ND2	1:F:167:LEU:HD12	2.14	0.62
1:G:103:ASP:HB3	1:G:106:LYS:HG3	1.81	0.62
1:G:563:LEU:HD21	1:G:596:LEU:HB2	1.81	0.62
1:H:455:MET:HE2	1:H:455:MET:O	2.00	0.62
1:B:276:TRP:CE3	1:B:277:LEU:HD23	2.34	0.62
1:C:484:ASP:C	1:C:486:PHE:N	2.56	0.62
1:D:190:ALA:HB2	1:D:206:TRP:CG	2.35	0.62
1:D:480:LYS:NZ	1:D:527:GLU:HB2	2.15	0.62
1:E:192:GLU:OE1	1:E:192:GLU:HA	2.00	0.62
1:F:134:ARG:CA	1:F:300:PHE:CZ	2.75	0.62
1:F:455:MET:HE2	1:F:455:MET:O	1.99	0.62
1:G:105:ARG:O	1:G:106:LYS:C	2.40	0.62
1:G:580:ASP:HA	1:G:582:ARG:NH1	2.15	0.62
1:A:200:THR:O	1:A:201:VAL:C	2.43	0.62
1:B:105:ARG:O	1:B:108:LEU:N	2.32	0.62
1:B:193:LEU:O	1:B:196:GLN:OE1	2.17	0.62
1:B:441:LYS:HB2	1:B:560:LEU:HD22	1.81	0.62
1:C:105:ARG:O	1:C:107:TYR:N	2.32	0.62
1:C:422:THR:HG22	1:C:426:LEU:HD21	1.81	0.62
1:E:402:SER:HA	1:E:609:TYR:CG	2.35	0.62
1:E:480:LYS:HZ2	1:E:525:GLY:C	2.08	0.62
1:E:632:VAL:C	1:E:633:MET:SD	2.83	0.62
1:F:30:LEU:HD13	1:F:32:TRP:HE1	1.65	0.62
1:F:368:THR:HA	1:F:371:VAL:CG2	2.30	0.62
1:H:153:LEU:CD2	1:H:162:HIS:HD1	2.12	0.62
1:A:426:LEU:HB2	1:A:574:LEU:HD21	1.82	0.62
1:A:580:ASP:HA	1:A:582:ARG:NH1	2.15	0.62
1:B:198:LYS:C	1:B:200:THR:H	2.08	0.62
1:B:318:VAL:O	1:B:320:GLY:N	2.32	0.62
1:D:480:LYS:CE	1:D:527:GLU:HB2	2.30	0.62
1:D:514:TRP:O	1:D:518:GLU:N	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:150:ASN:ND2	1:E:167:LEU:HD12	2.14	0.62
1:E:191:PRO:HG3	1:E:234:LYS:HZ2	1.63	0.62
1:F:105:ARG:O	1:F:107:TYR:N	2.33	0.62
1:G:386:LEU:H	1:G:386:LEU:HD12	1.62	0.62
1:H:72:ASN:O	1:H:163:LYS:HA	2.00	0.62
1:H:334:GLN:HA	1:H:337:LYS:HB2	1.82	0.62
1:A:107:TYR:HE1	1:A:153:LEU:HB2	1.63	0.61
1:A:179:CYS:CB	1:A:181:GLU:CG	2.67	0.61
1:A:192:GLU:HA	1:A:192:GLU:OE1	1.99	0.61
1:A:224:PRO:HG2	1:A:255:PHE:HE2	1.64	0.61
1:A:345:GLY:O	1:A:347:PRO:HD3	2.00	0.61
1:A:434:TRP:CZ3	1:A:568:ARG:HG3	2.31	0.61
1:A:434:TRP:HZ3	1:A:568:ARG:CA	2.09	0.61
1:B:143:HIS:CD2	1:B:145:ASP:O	2.53	0.61
1:D:118:LYS:NZ	1:D:123:ARG:HH22	1.96	0.61
1:G:150:ASN:ND2	1:G:167:LEU:HD12	2.13	0.61
1:H:17:MET:HA	1:H:33:ILE:O	2.00	0.61
1:H:103:ASP:HB3	1:H:106:LYS:HG3	1.82	0.61
1:H:118:LYS:HG3	1:H:118:LYS:O	1.99	0.61
1:A:571:TYR:CZ	1:A:590:MET:SD	2.93	0.61
1:A:651:GLN:HE22	1:B:492:ILE:HG23	1.65	0.61
1:B:72:ASN:O	1:B:163:LYS:HA	2.00	0.61
1:B:263:ASN:ND2	1:B:265:LEU:H	1.96	0.61
1:C:580:ASP:HA	1:C:582:ARG:NH1	2.15	0.61
1:D:263:ASN:ND2	1:D:265:LEU:H	1.98	0.61
1:F:208:PHE:HD2	1:F:211:LEU:HD23	1.64	0.61
1:F:362:ASN:C	1:F:364:ALA:H	2.08	0.61
1:H:263:ASN:ND2	1:H:265:LEU:H	1.98	0.61
1:H:386:LEU:H	1:H:386:LEU:HD12	1.64	0.61
1:A:153:LEU:CD2	1:A:162:HIS:HD1	2.14	0.61
1:A:362:ASN:C	1:A:364:ALA:H	2.09	0.61
1:A:434:TRP:HZ3	1:A:568:ARG:HA	1.54	0.61
1:B:171:LYS:HA	1:B:177:GLU:HA	1.82	0.61
1:C:441:LYS:HB2	1:C:560:LEU:CD2	2.29	0.61
1:C:660:ILE:HG23	1:C:661:ALA:N	2.15	0.61
1:D:150:ASN:OD1	1:D:150:ASN:N	2.33	0.61
1:E:116:GLY:HA2	1:E:217:THR:O	2.00	0.61
1:F:63:GLN:O	1:F:67:LYS:HB2	2.00	0.61
1:F:146:LEU:HA	1:F:150:ASN:HD21	1.65	0.61
1:G:570:LEU:CD2	1:G:590:MET:HE2	2.30	0.61
1:H:260:PRO:CB	1:H:273:LEU:HD13	2.29	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:17:MET:HA	1:A:33:ILE:O	2.00	0.61
1:A:143:HIS:CD2	1:A:145:ASP:O	2.52	0.61
1:A:350:GLU:HA	1:A:391:ASP:OD2	1.99	0.61
1:A:527:GLU:C	1:A:529:GLU:N	2.55	0.61
1:B:362:ASN:C	1:B:364:ALA:H	2.07	0.61
1:C:455:MET:HE2	1:C:455:MET:O	2.00	0.61
1:D:334:GLN:HA	1:D:337:LYS:HB2	1.81	0.61
1:E:105:ARG:O	1:E:107:TYR:N	2.33	0.61
1:E:150:ASN:OD1	1:E:150:ASN:N	2.34	0.61
1:E:224:PRO:HG2	1:E:255:PHE:CE2	2.36	0.61
1:H:286:ARG:HG2	1:H:286:ARG:HH11	1.64	0.61
1:H:408:GLU:O	1:H:409:SER:HB2	1.99	0.61
1:A:484:ASP:C	1:A:486:PHE:N	2.56	0.61
1:A:665:VAL:CG1	1:B:665:VAL:HG22	2.30	0.61
1:B:422:THR:HG22	1:B:426:LEU:HD21	1.81	0.61
1:B:441:LYS:HD2	1:B:561:ASP:OD1	2.01	0.61
1:C:386:LEU:H	1:C:386:LEU:HD12	1.65	0.61
1:D:283:TRP:O	1:D:284:HIS:HB2	2.01	0.61
1:F:345:GLY:O	1:F:347:PRO:HD3	2.00	0.61
1:F:386:LEU:H	1:F:386:LEU:HD12	1.64	0.61
1:F:660:ILE:HG23	1:F:661:ALA:N	2.15	0.61
1:G:145:ASP:OD1	1:G:167:LEU:HD13	2.01	0.61
1:G:193:LEU:O	1:G:196:GLN:OE1	2.18	0.61
1:G:408:GLU:O	1:G:409:SER:HB2	2.00	0.61
1:A:63:GLN:O	1:A:67:LYS:HB2	2.01	0.61
1:A:245:VAL:O	1:A:257:SER:O	2.18	0.61
1:A:334:GLN:HA	1:A:337:LYS:HB2	1.82	0.61
1:A:402:SER:O	1:A:403:LEU:HB2	1.99	0.61
1:B:208:PHE:HD2	1:B:211:LEU:HD23	1.65	0.61
1:C:191:PRO:HG3	1:C:234:LYS:NZ	2.16	0.61
1:C:373:ASP:CG	1:C:374:CYS:SG	2.83	0.61
1:C:408:GLU:O	1:C:409:SER:HB2	2.00	0.61
1:C:451:GLN:CD	1:C:611:GLN:NE2	2.59	0.61
1:D:384:GLY:O	1:D:385:ASP:HB2	1.99	0.61
1:E:105:ARG:HG2	1:E:109:ASN:HD21	1.66	0.61
1:E:271:GLY:HA2	1:E:275:ARG:HH21	1.66	0.61
1:G:222:PHE:CG	1:G:255:PHE:HB3	2.35	0.61
1:A:120:GLY:O	1:A:123:ARG:N	2.33	0.61
1:A:438:ARG:HG2	1:A:564:GLU:CG	2.30	0.61
1:A:492:ILE:HD13	1:B:651:GLN:HE21	1.66	0.61
1:A:658:LEU:HA	1:B:658:LEU:CD1	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:17:MET:HA	1:B:33:ILE:O	1.99	0.61
1:B:26:PHE:CE2	1:B:181:GLU:OE1	2.53	0.61
1:C:120:GLY:O	1:C:123:ARG:N	2.33	0.61
1:E:43:ILE:HA	1:E:94:LEU:O	2.00	0.61
1:E:118:LYS:HG3	1:E:118:LYS:O	2.00	0.61
1:E:362:ASN:C	1:E:364:ALA:H	2.09	0.61
1:E:462:ASN:ND2	1:E:540:LEU:CB	2.63	0.61
1:F:17:MET:HA	1:F:33:ILE:O	2.00	0.61
1:F:107:TYR:HE1	1:F:153:LEU:HB2	1.64	0.61
1:G:316:ASN:O	1:G:317:MET:CB	2.49	0.61
1:G:455:MET:HE2	1:G:455:MET:O	2.00	0.61
1:A:283:TRP:O	1:A:284:HIS:HB2	2.00	0.61
1:A:316:ASN:O	1:A:317:MET:HB2	1.99	0.61
1:B:153:LEU:CD2	1:B:162:HIS:HD1	2.12	0.61
1:C:30:LEU:HD13	1:C:32:TRP:HE1	1.66	0.61
1:C:72:ASN:O	1:C:163:LYS:HA	2.01	0.61
1:D:660:ILE:HG23	1:D:661:ALA:N	2.14	0.61
1:E:547:LEU:HD12	1:E:615:THR:CG2	2.04	0.61
1:H:359:LEU:HA	1:H:460:ARG:HH12	1.66	0.61
1:H:422:THR:HB	1:H:585:GLY:HA3	1.81	0.61
1:A:408:GLU:O	1:A:409:SER:HB2	2.01	0.61
1:B:200:THR:O	1:B:201:VAL:C	2.43	0.61
1:B:345:GLY:O	1:B:347:PRO:HD3	2.01	0.61
1:B:386:LEU:HD12	1:B:386:LEU:H	1.65	0.61
1:E:334:GLN:HA	1:E:337:LYS:HB2	1.83	0.61
1:E:500:GLN:CB	1:E:505:ILE:HG12	2.30	0.61
1:F:563:LEU:HD23	1:F:597:ALA:HB2	1.83	0.61
1:F:580:ASP:HA	1:F:582:ARG:NH1	2.16	0.61
1:A:357:SER:HB3	1:A:453:THR:CB	2.31	0.61
1:B:105:ARG:O	1:B:107:TYR:N	2.34	0.61
1:B:352:GLU:O	1:B:388:PHE:HA	2.00	0.61
1:B:434:TRP:HB3	1:B:571:TYR:CE1	2.36	0.61
1:B:570:LEU:HD23	1:B:590:MET:HG2	1.81	0.61
1:B:632:VAL:C	1:B:633:MET:SD	2.84	0.61
1:C:143:HIS:CD2	1:C:145:ASP:O	2.53	0.61
1:D:198:LYS:C	1:D:200:THR:H	2.08	0.61
1:E:17:MET:HA	1:E:33:ILE:O	2.01	0.61
1:E:384:GLY:O	1:E:385:ASP:HB2	2.00	0.61
1:E:402:SER:HA	1:E:609:TYR:CD1	2.36	0.61
1:E:480:LYS:NZ	1:E:525:GLY:C	2.59	0.61
1:F:437:ILE:HG13	1:F:594:LEU:HD12	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:105:ARG:HG2	1:G:109:ASN:HD21	1.66	0.61
1:H:120:GLY:HA2	1:H:123:ARG:HB2	1.83	0.61
1:H:192:GLU:OE1	1:H:192:GLU:HA	2.00	0.61
1:B:120:GLY:HA2	1:B:123:ARG:HB2	1.83	0.60
1:B:637:ARG:O	1:B:641:LYS:N	2.28	0.60
1:C:153:LEU:CD2	1:C:162:HIS:HD1	2.10	0.60
1:D:153:LEU:CD2	1:D:162:HIS:HD1	2.13	0.60
1:D:200:THR:O	1:D:201:VAL:C	2.42	0.60
1:D:387:ILE:HD12	1:D:450:GLY:HA2	1.82	0.60
1:E:119:GLU:CB	1:E:121:PRO:CD	2.80	0.60
1:E:408:GLU:O	1:E:409:SER:HB2	2.01	0.60
1:F:26:PHE:HE2	1:F:181:GLU:OE1	1.84	0.60
1:F:271:GLY:HA2	1:F:275:ARG:HH21	1.65	0.60
1:F:423:TYR:CD2	1:F:424:THR:HG23	2.35	0.60
1:F:434:TRP:CZ3	1:F:568:ARG:CA	2.77	0.60
1:G:409:SER:HB3	1:G:412:ILE:HD12	1.83	0.60
1:G:626:SER:HB2	1:G:630:LYS:HE3	1.80	0.60
1:H:143:HIS:CD2	1:H:145:ASP:O	2.54	0.60
1:C:651:GLN:HE22	1:D:492:ILE:CG2	1.98	0.60
1:C:654:LEU:HD11	1:D:655:TRP:HE3	1.64	0.60
1:D:145:ASP:OD1	1:D:167:LEU:HD13	2.00	0.60
1:D:345:GLY:O	1:D:347:PRO:HD3	2.00	0.60
1:D:626:SER:HB2	1:D:630:LYS:HE3	1.81	0.60
1:E:492:ILE:CG2	1:F:651:GLN:NE2	2.63	0.60
1:E:580:ASP:HA	1:E:582:ARG:NH1	2.16	0.60
1:F:145:ASP:OD1	1:F:167:LEU:HD13	2.01	0.60
1:G:260:PRO:CB	1:G:273:LEU:HD13	2.31	0.60
1:H:368:THR:HA	1:H:371:VAL:CG2	2.31	0.60
1:H:580:ASP:HA	1:H:582:ARG:NH1	2.16	0.60
1:A:171:LYS:HA	1:A:177:GLU:HA	1.83	0.60
1:A:500:GLN:HE22	1:B:659:LYS:HG2	1.65	0.60
1:B:220:ARG:HH12	1:B:223:LEU:CD2	2.14	0.60
1:C:333:LEU:HD11	1:C:353:LEU:HD13	1.83	0.60
1:D:434:TRP:HZ3	1:D:568:ARG:HG3	1.66	0.60
1:D:503:PHE:H	1:D:505:ILE:HD11	1.66	0.60
1:E:115:CYS:HB2	1:E:435:GLN:HG3	1.83	0.60
1:E:434:TRP:HE3	1:E:568:ARG:HA	1.62	0.60
1:F:120:GLY:O	1:F:123:ARG:N	2.35	0.60
1:F:120:GLY:HA2	1:F:123:ARG:H	1.67	0.60
1:G:570:LEU:HD23	1:G:590:MET:HE2	1.83	0.60
1:H:200:THR:O	1:H:201:VAL:C	2.44	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:570:LEU:HD23	1:A:590:MET:HE2	1.83	0.60
1:B:320:GLY:O	1:B:321:ARG:C	2.45	0.60
1:B:521:VAL:HA	1:B:524:CYS:HG	1.65	0.60
1:C:222:PHE:CG	1:C:255:PHE:HB3	2.36	0.60
1:D:220:ARG:HH12	1:D:223:LEU:CD2	2.14	0.60
1:E:117:LEU:O	1:E:119:GLU:HG2	2.00	0.60
1:E:462:ASN:HD21	1:E:540:LEU:CB	2.13	0.60
1:E:527:GLU:O	1:E:529:GLU:N	2.35	0.60
1:F:193:LEU:O	1:F:196:GLN:OE1	2.18	0.60
1:G:146:LEU:HA	1:G:150:ASN:HD21	1.67	0.60
1:H:18:LYS:HZ2	1:H:33:ILE:HG21	1.64	0.60
1:H:43:ILE:HA	1:H:94:LEU:O	2.01	0.60
1:A:72:ASN:O	1:A:163:LYS:HA	2.01	0.60
1:A:83:LEU:HD21	1:A:86:LEU:HD11	1.83	0.60
1:A:220:ARG:HH12	1:A:223:LEU:CD2	2.15	0.60
1:B:30:LEU:HD13	1:B:32:TRP:HE1	1.67	0.60
1:B:419:ARG:N	1:B:420:PRO:HD3	2.03	0.60
1:C:17:MET:HA	1:C:33:ILE:O	2.01	0.60
1:C:171:LYS:HA	1:C:177:GLU:HA	1.82	0.60
1:D:30:LEU:HD13	1:D:32:TRP:HE1	1.66	0.60
1:D:43:ILE:HA	1:D:94:LEU:O	2.01	0.60
1:D:146:LEU:HA	1:D:150:ASN:HD21	1.66	0.60
1:E:265:LEU:HD21	1:E:269:LEU:HB3	1.83	0.60
1:E:473:THR:CG2	1:E:533:LEU:HD22	2.26	0.60
1:F:110:GLN:O	1:F:111:PHE:CB	2.34	0.60
1:F:120:GLY:HA2	1:F:123:ARG:HB2	1.84	0.60
1:F:245:VAL:O	1:F:257:SER:O	2.19	0.60
1:F:384:GLY:O	1:F:385:ASP:HB2	2.01	0.60
1:F:441:LYS:HB2	1:F:560:LEU:CD2	2.32	0.60
1:F:527:GLU:O	1:F:529:GLU:N	2.35	0.60
1:H:387:ILE:CD1	1:H:450:GLY:N	2.64	0.60
1:B:334:GLN:HA	1:B:337:LYS:HB2	1.82	0.60
1:C:263:ASN:ND2	1:C:265:LEU:N	2.49	0.60
1:D:320:GLY:O	1:D:321:ARG:C	2.45	0.60
1:D:499:GLU:C	1:D:500:GLN:HE21	2.10	0.60
1:G:208:PHE:HD2	1:G:211:LEU:HD23	1.66	0.60
1:A:222:PHE:CZ	1:A:225:ASN:HB2	2.37	0.60
1:A:409:SER:HB3	1:A:412:ILE:HD12	1.82	0.60
1:B:50:LEU:H	1:B:55:ARG:HD3	1.67	0.60
1:D:224:PRO:HG2	1:D:255:PHE:HE2	1.66	0.60
1:D:455:MET:O	1:D:455:MET:HE2	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:30:LEU:HD13	1:E:32:TRP:HE1	1.66	0.60
1:E:143:HIS:CD2	1:E:145:ASP:O	2.52	0.60
1:E:145:ASP:OD1	1:E:167:LEU:HD13	2.01	0.60
1:E:644:VAL:O	1:E:644:VAL:HG12	2.02	0.60
1:F:333:LEU:HD11	1:F:353:LEU:HD13	1.82	0.60
1:G:68:LEU:HB3	1:G:135:TYR:HE2	1.66	0.60
1:H:352:GLU:O	1:H:388:PHE:HA	2.02	0.60
1:H:570:LEU:HD23	1:H:590:MET:HG2	1.82	0.60
1:B:503:PHE:O	1:B:505:ILE:HG13	2.02	0.60
1:C:63:GLN:O	1:C:67:LYS:HB2	2.02	0.60
1:C:150:ASN:OD1	1:C:150:ASN:N	2.31	0.60
1:D:387:ILE:CD1	1:D:450:GLY:N	2.65	0.60
1:D:580:ASP:HA	1:D:582:ARG:NH1	2.16	0.60
1:E:63:GLN:O	1:E:67:LYS:HB2	2.01	0.60
1:E:120:GLY:HA2	1:E:123:ARG:H	1.65	0.60
1:E:503:PHE:C	1:E:505:ILE:H	2.09	0.60
1:F:115:CYS:O	1:F:263:ASN:HA	2.01	0.60
1:F:493:ASP:HB3	1:F:514:TRP:CH2	2.36	0.60
1:F:587:SER:OG	1:F:588:ASN:N	2.34	0.60
1:A:419:ARG:N	1:A:420:PRO:HD3	2.04	0.60
1:A:632:VAL:C	1:A:633:MET:SD	2.85	0.60
1:C:246:TYR:CD1	1:C:258:VAL:CB	2.71	0.60
1:C:422:THR:CB	1:C:585:GLY:CA	2.69	0.60
1:C:497:TYR:HB2	1:D:655:TRP:CH2	2.37	0.60
1:C:502:GLU:HG3	1:D:666:ARG:HH11	1.64	0.60
1:D:206:TRP:CD1	1:D:206:TRP:C	2.78	0.60
1:E:200:THR:O	1:E:201:VAL:C	2.45	0.60
1:F:119:GLU:CB	1:F:121:PRO:CD	2.80	0.60
1:F:224:PRO:HG2	1:F:255:PHE:HE2	1.67	0.60
1:F:283:TRP:O	1:F:284:HIS:HB2	2.01	0.60
1:F:408:GLU:O	1:F:409:SER:HB2	2.01	0.60
1:G:105:ARG:O	1:G:107:TYR:N	2.35	0.60
1:H:182:PHE:CE1	1:H:194:LEU:HD22	2.36	0.60
1:H:220:ARG:HH12	1:H:223:LEU:CD2	2.14	0.60
1:H:271:GLY:HA2	1:H:275:ARG:HH21	1.65	0.60
1:A:373:ASP:C	1:A:374:CYS:SG	2.83	0.60
1:A:422:THR:HB	1:A:585:GLY:C	2.27	0.60
1:B:63:GLN:O	1:B:67:LYS:HB2	2.01	0.60
1:B:260:PRO:CB	1:B:273:LEU:HD13	2.32	0.60
1:D:17:MET:HA	1:D:33:ILE:O	2.01	0.60
1:D:63:GLN:O	1:D:67:LYS:HB2	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:103:ASP:HB3	1:D:106:LYS:HG3	1.84	0.60
1:D:316:ASN:O	1:D:317:MET:HB2	2.00	0.60
1:E:171:LYS:HA	1:E:177:GLU:HA	1.82	0.60
1:G:286:ARG:HG2	1:G:286:ARG:HH11	1.64	0.60
1:A:644:VAL:O	1:A:644:VAL:HG12	2.01	0.59
1:B:271:GLY:HA2	1:B:275:ARG:HH21	1.67	0.59
1:C:43:ILE:HA	1:C:94:LEU:O	2.02	0.59
1:C:473:THR:CG2	1:C:533:LEU:HD22	2.27	0.59
1:D:333:LEU:HD11	1:D:353:LEU:HD13	1.84	0.59
1:D:422:THR:CB	1:D:585:GLY:C	2.74	0.59
1:D:500:GLN:HB3	1:D:505:ILE:HG12	1.84	0.59
1:G:192:GLU:OE1	1:G:192:GLU:HA	2.02	0.59
1:G:271:GLY:HA2	1:G:275:ARG:HH21	1.67	0.59
1:G:352:GLU:O	1:G:388:PHE:HA	2.02	0.59
1:H:409:SER:HB3	1:H:412:ILE:HD12	1.84	0.59
1:H:423:TYR:CD2	1:H:424:THR:HG23	2.37	0.59
1:A:182:PHE:CE1	1:A:194:LEU:HD22	2.37	0.59
1:A:507:SER:C	1:A:509:LYS:H	2.10	0.59
1:B:105:ARG:HG2	1:B:109:ASN:HD21	1.66	0.59
1:B:434:TRP:HZ3	1:B:568:ARG:CB	2.15	0.59
1:C:119:GLU:HB2	1:C:121:PRO:CD	2.32	0.59
1:C:134:ARG:CA	1:C:300:PHE:CZ	2.76	0.59
1:C:150:ASN:ND2	1:C:167:LEU:HD12	2.13	0.59
1:C:496:LYS:CB	1:D:655:TRP:NE1	2.09	0.59
1:C:499:GLU:C	1:C:500:GLN:HE21	2.10	0.59
1:D:319:SER:O	1:D:321:ARG:N	2.35	0.59
1:E:219:PHE:O	1:E:220:ARG:HG3	1.88	0.59
1:E:222:PHE:CZ	1:E:225:ASN:HB2	2.38	0.59
1:F:260:PRO:CB	1:F:273:LEU:HD13	2.32	0.59
1:A:246:TYR:CD1	1:A:258:VAL:CB	2.70	0.59
1:B:103:ASP:HB3	1:B:106:LYS:HG3	1.85	0.59
1:B:150:ASN:OD1	1:B:150:ASN:N	2.35	0.59
1:B:150:ASN:ND2	1:B:167:LEU:HD12	2.15	0.59
1:B:423:TYR:CD2	1:B:424:THR:HG23	2.36	0.59
1:C:316:ASN:O	1:C:317:MET:CB	2.50	0.59
1:C:476:CYS:HB2	1:C:636:MET:SD	2.42	0.59
1:C:485:PHE:CE1	1:D:485:PHE:CD1	2.90	0.59
1:D:531:GLN:O	1:D:535:ASP:N	2.34	0.59
1:E:319:SER:CB	1:E:403:LEU:HB2	2.31	0.59
1:E:373:ASP:C	1:E:374:CYS:SG	2.85	0.59
1:E:472:MET:HG3	1:E:472:MET:O	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:320:GLY:O	1:F:321:ARG:C	2.44	0.59
1:G:276:TRP:CE3	1:G:277:LEU:HD23	2.37	0.59
1:G:394:LYS:HD2	1:G:613:SER:HB2	1.82	0.59
1:H:134:ARG:HD2	1:H:300:PHE:CE1	2.37	0.59
1:H:193:LEU:HD22	1:H:231:TRP:NE1	2.16	0.59
1:H:276:TRP:CE3	1:H:277:LEU:HD23	2.37	0.59
1:A:146:LEU:HA	1:A:150:ASN:HD21	1.67	0.59
1:A:276:TRP:CE3	1:A:277:LEU:HD23	2.37	0.59
1:A:531:GLN:O	1:A:535:ASP:N	2.35	0.59
1:B:146:LEU:HA	1:B:150:ASN:HD21	1.67	0.59
1:B:499:GLU:C	1:B:500:GLN:HE21	2.10	0.59
1:C:50:LEU:H	1:C:55:ARG:HD3	1.68	0.59
1:D:182:PHE:CE1	1:D:194:LEU:HD22	2.38	0.59
1:D:409:SER:HB3	1:D:412:ILE:HD12	1.84	0.59
1:D:433:ILE:CB	1:D:571:TYR:OH	2.49	0.59
1:E:50:LEU:H	1:E:55:ARG:HD3	1.68	0.59
1:G:171:LYS:HA	1:G:177:GLU:HA	1.83	0.59
1:G:350:GLU:HA	1:G:391:ASP:OD2	2.02	0.59
1:H:30:LEU:HD13	1:H:32:TRP:HE1	1.67	0.59
1:H:316:ASN:O	1:H:317:MET:CB	2.50	0.59
1:H:384:GLY:O	1:H:385:ASP:HB2	2.00	0.59
1:A:333:LEU:HD11	1:A:353:LEU:HD13	1.85	0.59
1:B:119:GLU:CB	1:B:121:PRO:CD	2.80	0.59
1:D:83:LEU:HD21	1:D:86:LEU:HD11	1.85	0.59
1:E:103:ASP:HB3	1:E:106:LYS:HG3	1.83	0.59
1:E:570:LEU:HD23	1:E:590:MET:HE2	1.84	0.59
1:E:570:LEU:HD23	1:E:590:MET:HG2	1.83	0.59
1:E:660:ILE:HG23	1:E:661:ALA:N	2.15	0.59
1:F:105:ARG:HG2	1:F:109:ASN:HD21	1.67	0.59
1:F:200:THR:O	1:F:201:VAL:C	2.44	0.59
1:F:319:SER:OG	1:F:403:LEU:CB	2.50	0.59
1:F:334:GLN:HA	1:F:337:LYS:HB2	1.84	0.59
1:F:387:ILE:HG21	1:F:450:GLY:CA	2.29	0.59
1:G:632:VAL:C	1:G:633:MET:SD	2.86	0.59
1:H:150:ASN:ND2	1:H:167:LEU:HD12	2.15	0.59
1:A:30:LEU:HD13	1:A:32:TRP:HE1	1.65	0.59
1:A:285:GLN:NE2	1:A:286:ARG:HH12	2.00	0.59
1:B:540:LEU:HD22	1:B:621:LYS:NZ	2.17	0.59
1:E:116:GLY:N	1:E:217:THR:O	2.36	0.59
1:E:497:TYR:O	1:E:497:TYR:HD2	1.85	0.59
1:F:632:VAL:C	1:F:633:MET:SD	2.86	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:63:GLN:O	1:G:67:LYS:HB2	2.02	0.59
1:G:120:GLY:HA2	1:G:123:ARG:HB2	1.85	0.59
1:H:265:LEU:HD21	1:H:269:LEU:HB3	1.85	0.59
1:A:43:ILE:HA	1:A:94:LEU:O	2.01	0.59
1:A:352:GLU:O	1:A:388:PHE:HA	2.03	0.59
1:A:423:TYR:CD2	1:A:424:THR:HG23	2.37	0.59
1:B:580:ASP:HA	1:B:582:ARG:NH1	2.17	0.59
1:C:348:GLU:H	1:C:348:GLU:CD	2.11	0.59
1:C:644:VAL:O	1:C:644:VAL:HG12	2.03	0.59
1:D:191:PRO:HG3	1:D:234:LYS:HZ2	1.67	0.59
1:D:433:ILE:CG2	1:D:571:TYR:OH	2.50	0.59
1:F:434:TRP:HZ3	1:F:568:ARG:HA	1.58	0.59
1:F:531:GLN:O	1:F:535:ASP:N	2.36	0.59
1:G:368:THR:HA	1:G:371:VAL:CG2	2.32	0.59
1:G:384:GLY:O	1:G:385:ASP:HB2	2.00	0.59
1:A:198:LYS:C	1:A:200:THR:H	2.10	0.59
1:A:368:THR:HA	1:A:371:VAL:CG2	2.32	0.59
1:A:497:TYR:O	1:A:497:TYR:HD2	1.85	0.59
1:B:409:SER:HB3	1:B:412:ILE:HD12	1.82	0.59
1:B:501:MET:CA	1:B:505:ILE:HD13	2.33	0.59
1:C:462:ASN:HD21	1:C:540:LEU:CB	2.13	0.59
1:D:319:SER:CB	1:D:403:LEU:HB2	2.32	0.59
1:G:434:TRP:HZ3	1:G:568:ARG:HA	1.57	0.59
1:B:182:PHE:CE1	1:B:194:LEU:HD22	2.37	0.59
1:C:249:LEU:O	1:C:250:THR:HG23	2.03	0.59
1:D:50:LEU:H	1:D:55:ARG:HD3	1.68	0.59
1:E:18:LYS:HZ2	1:E:33:ILE:HD12	1.67	0.59
1:E:402:SER:O	1:E:403:LEU:HB2	2.01	0.59
1:E:423:TYR:CD2	1:E:424:THR:HG23	2.38	0.59
1:E:507:SER:C	1:E:509:LYS:H	2.11	0.59
1:G:83:LEU:HD21	1:G:86:LEU:HD11	1.84	0.59
1:G:222:PHE:CZ	1:G:225:ASN:HB2	2.38	0.59
1:G:345:GLY:O	1:G:347:PRO:HD3	2.02	0.59
1:H:105:ARG:O	1:H:107:TYR:N	2.36	0.59
1:H:119:GLU:CB	1:H:121:PRO:CD	2.81	0.59
1:A:243:ILE:N	1:A:245:VAL:HG23	2.17	0.59
1:A:271:GLY:HA2	1:A:275:ARG:HH21	1.68	0.59
1:A:478:GLN:CG	1:A:479:LEU:N	2.66	0.59
1:B:145:ASP:OD1	1:B:167:LEU:HD13	2.02	0.59
1:B:500:GLN:O	1:B:505:ILE:HG21	2.03	0.59
1:D:521:VAL:HG13	1:D:643:VAL:HG12	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:83:LEU:HD21	1:E:86:LEU:HD11	1.85	0.59
1:E:89:ASN:C	1:E:91:LEU:H	2.11	0.59
1:E:105:ARG:HG3	1:E:105:ARG:HH11	1.68	0.59
1:E:182:PHE:CE1	1:E:194:LEU:HD22	2.38	0.59
1:F:50:LEU:H	1:F:55:ARG:HD3	1.68	0.59
1:G:333:LEU:HD11	1:G:353:LEU:HD13	1.84	0.59
1:A:26:PHE:CE2	1:A:181:GLU:CD	2.81	0.58
1:A:117:LEU:O	1:A:119:GLU:HG2	2.03	0.58
1:A:319:SER:O	1:A:321:ARG:N	2.34	0.58
1:A:660:ILE:HG23	1:A:661:ALA:N	2.18	0.58
1:B:333:LEU:HD11	1:B:353:LEU:HD13	1.84	0.58
1:B:394:LYS:HD3	1:B:401:ILE:HA	1.84	0.58
1:C:345:GLY:O	1:C:347:PRO:HD3	2.03	0.58
1:C:426:LEU:HB2	1:C:574:LEU:HD21	1.83	0.58
1:D:271:GLY:HA2	1:D:275:ARG:HH21	1.67	0.58
1:E:146:LEU:HA	1:E:150:ASN:HD21	1.67	0.58
1:E:233:GLY:C	1:E:235:VAL:H	2.12	0.58
1:E:373:ASP:CG	1:E:374:CYS:SG	2.85	0.58
1:E:655:TRP:CZ3	1:F:654:LEU:CD1	2.85	0.58
1:F:409:SER:HB3	1:F:412:ILE:HD12	1.85	0.58
1:F:521:VAL:CG1	1:F:643:VAL:HG12	2.31	0.58
1:G:246:TYR:CD1	1:G:258:VAL:CB	2.70	0.58
1:H:105:ARG:HG2	1:H:109:ASN:HD21	1.67	0.58
1:H:243:ILE:N	1:H:245:VAL:HG23	2.18	0.58
1:A:120:GLY:HA2	1:A:123:ARG:HB2	1.85	0.58
1:B:233:GLY:C	1:B:235:VAL:H	2.12	0.58
1:C:83:LEU:HD21	1:C:86:LEU:HD11	1.84	0.58
1:D:131:SER:O	1:D:134:ARG:HB3	2.03	0.58
1:E:352:GLU:O	1:E:388:PHE:HA	2.02	0.58
1:E:571:TYR:CE2	1:E:590:MET:HG3	2.38	0.58
1:F:43:ILE:HA	1:F:94:LEU:O	2.03	0.58
1:G:243:ILE:N	1:G:245:VAL:HG23	2.18	0.58
1:B:610:ASP:O	1:B:613:SER:HB3	2.03	0.58
1:H:120:GLY:O	1:H:123:ARG:N	2.36	0.58
1:H:212:ALA:O	1:H:213:PHE:C	2.45	0.58
1:B:83:LEU:HD21	1:B:86:LEU:HD11	1.85	0.58
1:B:521:VAL:HG13	1:B:643:VAL:HG11	1.83	0.58
1:C:89:ASN:C	1:C:91:LEU:H	2.11	0.58
1:C:222:PHE:CZ	1:C:225:ASN:HB2	2.39	0.58
1:C:277:LEU:C	1:C:279:CYS:H	2.11	0.58
1:C:352:GLU:O	1:C:388:PHE:HA	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:260:PRO:CG	1:E:274:GLU:HG2	2.33	0.58
1:F:263:ASN:ND2	1:F:265:LEU:H	2.01	0.58
1:G:531:GLN:O	1:G:535:ASP:N	2.36	0.58
1:A:504:GLY:N	1:B:662:CYS:SG	2.77	0.58
1:B:517:MET:HE3	1:B:646:ARG:HD3	1.86	0.58
1:C:423:TYR:CD2	1:C:424:THR:HG23	2.38	0.58
1:D:222:PHE:CZ	1:D:225:ASN:HB2	2.37	0.58
1:D:316:ASN:O	1:D:317:MET:CB	2.51	0.58
1:E:119:GLU:HB2	1:E:121:PRO:CD	2.34	0.58
1:E:419:ARG:N	1:E:420:PRO:HD3	2.04	0.58
1:F:480:LYS:CE	1:F:527:GLU:HB2	2.33	0.58
1:G:43:ILE:HA	1:G:94:LEU:O	2.02	0.58
1:H:246:TYR:CD1	1:H:258:VAL:CB	2.70	0.58
1:A:50:LEU:H	1:A:55:ARG:HD3	1.68	0.58
1:A:222:PHE:CD2	1:A:255:PHE:CD2	2.92	0.58
1:B:43:ILE:HA	1:B:94:LEU:O	2.03	0.58
1:B:183:VAL:HG12	1:B:184:GLY:N	2.19	0.58
1:B:387:ILE:HG21	1:B:450:GLY:CA	2.31	0.58
1:B:480:LYS:NZ	1:B:527:GLU:HB2	2.19	0.58
1:B:531:GLN:O	1:B:535:ASP:N	2.36	0.58
1:C:350:GLU:HA	1:C:391:ASP:OD2	2.03	0.58
1:D:387:ILE:CD1	1:D:449:GLN:HG3	2.32	0.58
1:E:131:SER:O	1:E:134:ARG:HB3	2.03	0.58
1:E:357:SER:HA	1:E:453:THR:HB	1.85	0.58
1:E:368:THR:HA	1:E:371:VAL:CG2	2.31	0.58
1:F:220:ARG:NH1	1:F:223:LEU:CD2	2.65	0.58
1:A:120:GLY:HA2	1:A:123:ARG:H	1.68	0.58
1:D:120:GLY:HA2	1:D:123:ARG:HB2	1.85	0.58
1:D:437:ILE:HG13	1:D:594:LEU:HD12	1.85	0.58
1:E:72:ASN:H	1:E:163:LYS:HE2	1.67	0.58
1:E:243:ILE:N	1:E:245:VAL:HG23	2.19	0.58
1:E:394:LYS:CG	1:E:613:SER:HB2	2.32	0.58
1:E:500:GLN:HB3	1:E:505:ILE:CG1	2.33	0.58
1:G:315:MET:HB3	1:G:387:ILE:HA	1.85	0.58
1:H:89:ASN:C	1:H:91:LEU:H	2.12	0.58
1:H:350:GLU:HA	1:H:391:ASP:OD2	2.03	0.58
1:B:89:ASN:C	1:B:91:LEU:H	2.12	0.58
1:B:434:TRP:CZ3	1:B:568:ARG:HG3	2.39	0.58
1:C:116:GLY:N	1:C:217:THR:O	2.36	0.58
1:C:496:LYS:C	1:D:655:TRP:HZ2	2.11	0.58
1:C:570:LEU:HD23	1:C:590:MET:HG2	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:587:SER:OG	1:C:588:ASN:N	2.31	0.58
1:E:263:ASN:ND2	1:E:265:LEU:N	2.51	0.58
1:E:654:LEU:HD21	1:F:654:LEU:HD23	1.86	0.58
1:E:659:LYS:HG2	1:F:500:GLN:HE22	1.68	0.58
1:F:249:LEU:HD23	1:F:252:ALA:CA	2.24	0.58
1:G:118:LYS:CG	1:G:265:LEU:HA	2.33	0.58
1:G:247:ASP:HB2	1:G:255:PHE:O	2.04	0.58
1:G:265:LEU:HD23	1:G:269:LEU:HB3	1.85	0.58
1:G:441:LYS:HB2	1:G:560:LEU:CD2	2.34	0.58
1:H:222:PHE:CZ	1:H:225:ASN:HB2	2.38	0.58
1:H:285:GLN:NE2	1:H:286:ARG:HH12	2.02	0.58
1:A:260:PRO:CB	1:A:273:LEU:HD13	2.33	0.58
1:B:191:PRO:HG3	1:B:234:LYS:NZ	2.19	0.58
1:B:570:LEU:HB3	1:B:590:MET:CE	2.34	0.58
1:B:656:ASN:C	1:B:656:ASN:OD1	2.46	0.58
1:D:276:TRP:CE3	1:D:277:LEU:HD23	2.39	0.58
1:E:220:ARG:HH12	1:E:223:LEU:CD2	2.17	0.58
1:E:249:LEU:O	1:E:250:THR:HG23	2.04	0.58
1:F:434:TRP:HZ3	1:F:568:ARG:CG	2.17	0.58
1:G:182:PHE:CE1	1:G:194:LEU:HD22	2.39	0.58
1:G:373:ASP:C	1:G:374:CYS:SG	2.87	0.58
1:H:281:LEU:O	1:H:282:MET:HE3	2.04	0.58
1:H:387:ILE:HD12	1:H:450:GLY:HA2	1.84	0.58
1:H:582:ARG:H	1:H:582:ARG:CD	2.17	0.58
1:A:580:ASP:HB3	1:D:579:ARG:HH22	1.69	0.58
1:B:373:ASP:C	1:B:374:CYS:SG	2.87	0.58
1:C:146:LEU:HA	1:C:150:ASN:HD21	1.69	0.58
1:C:387:ILE:HD12	1:C:450:GLY:HA2	1.84	0.58
1:C:507:SER:C	1:C:509:LYS:H	2.12	0.58
1:C:531:GLN:O	1:C:535:ASP:N	2.36	0.58
1:E:409:SER:HB3	1:E:412:ILE:HD12	1.85	0.58
1:F:276:TRP:CE3	1:F:277:LEU:HD23	2.38	0.58
1:F:433:ILE:CG2	1:F:571:TYR:OH	2.52	0.58
1:F:499:GLU:C	1:F:500:GLN:HE21	2.12	0.58
1:G:220:ARG:NH1	1:G:223:LEU:CD2	2.67	0.58
1:A:263:ASN:ND2	1:A:265:LEU:N	2.52	0.57
1:A:480:LYS:NZ	1:A:527:GLU:HB2	2.19	0.57
1:B:222:PHE:CZ	1:B:225:ASN:HB2	2.38	0.57
1:B:434:TRP:HZ3	1:B:568:ARG:CG	2.17	0.57
1:B:478:GLN:CG	1:B:479:LEU:N	2.66	0.57
1:C:220:ARG:HH12	1:C:223:LEU:CD2	2.16	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:409:SER:HB3	1:C:412:ILE:HD12	1.84	0.57
1:C:478:GLN:CG	1:C:479:LEU:N	2.67	0.57
1:D:476:CYS:HB2	1:D:636:MET:SD	2.43	0.57
1:E:527:GLU:HG2	1:E:530:VAL:HG13	1.86	0.57
1:F:222:PHE:CD2	1:F:255:PHE:CD2	2.91	0.57
1:G:119:GLU:CB	1:G:121:PRO:CD	2.82	0.57
1:H:146:LEU:HA	1:H:150:ASN:HD21	1.68	0.57
1:H:437:ILE:CG2	1:H:564:GLU:HB2	2.34	0.57
1:H:472:MET:HG3	1:H:472:MET:O	2.04	0.57
1:A:437:ILE:HG13	1:A:594:LEU:HD12	1.86	0.57
1:B:277:LEU:C	1:B:279:CYS:H	2.12	0.57
1:B:660:ILE:HG23	1:B:661:ALA:N	2.18	0.57
1:C:116:GLY:HA2	1:C:217:THR:O	2.04	0.57
1:C:118:LYS:HD3	1:C:265:LEU:HD12	1.85	0.57
1:D:213:PHE:O	1:D:216:ILE:N	2.37	0.57
1:D:233:GLY:C	1:D:235:VAL:H	2.11	0.57
1:D:434:TRP:HZ3	1:D:568:ARG:CG	2.16	0.57
1:E:426:LEU:HB2	1:E:574:LEU:HD21	1.85	0.57
1:F:89:ASN:C	1:F:91:LEU:H	2.11	0.57
1:F:317:MET:HE3	1:F:609:TYR:CE2	2.39	0.57
1:G:120:GLY:HA2	1:G:123:ARG:H	1.69	0.57
1:G:171:LYS:HD2	1:G:177:GLU:HG2	1.85	0.57
1:G:249:LEU:O	1:G:250:THR:HG23	2.05	0.57
1:H:265:LEU:HD23	1:H:269:LEU:HB3	1.85	0.57
1:H:447:LEU:HD12	1:H:605:VAL:HG22	1.85	0.57
1:A:499:GLU:C	1:A:500:GLN:HE21	2.12	0.57
1:B:115:CYS:CB	1:B:435:GLN:HG3	2.33	0.57
1:B:587:SER:OG	1:B:588:ASN:N	2.35	0.57
1:B:644:VAL:HG12	1:B:644:VAL:O	2.03	0.57
1:C:492:ILE:CD1	1:D:651:GLN:HE21	2.10	0.57
1:C:661:ALA:O	1:D:661:ALA:O	2.21	0.57
1:D:105:ARG:HH11	1:D:105:ARG:HG3	1.69	0.57
1:D:285:GLN:NE2	1:D:286:ARG:HH12	2.01	0.57
1:E:107:TYR:HD1	1:E:153:LEU:HD12	1.69	0.57
1:E:183:VAL:HG12	1:E:184:GLY:N	2.19	0.57
1:E:484:ASP:C	1:E:486:PHE:N	2.58	0.57
1:E:666:ARG:HH11	1:F:502:GLU:HG3	1.68	0.57
1:F:118:LYS:HD3	1:F:265:LEU:HD12	1.85	0.57
1:F:637:ARG:O	1:F:641:LYS:N	2.31	0.57
1:G:143:HIS:CD2	1:G:145:ASP:O	2.54	0.57
1:H:315:MET:HB3	1:H:387:ILE:HA	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:18:LYS:HZ2	1:A:33:ILE:HD12	1.69	0.57
1:A:30:LEU:HD13	1:A:32:TRP:NE1	2.19	0.57
1:A:105:ARG:HG2	1:A:109:ASN:HD21	1.67	0.57
1:A:316:ASN:O	1:A:317:MET:CB	2.51	0.57
1:A:466:SER:HB3	1:A:537:MET:HE1	1.85	0.57
1:A:651:GLN:NE2	1:B:492:ILE:CG2	2.67	0.57
1:B:315:MET:HB3	1:B:387:ILE:HA	1.85	0.57
1:B:478:GLN:HE21	1:B:479:LEU:HD23	1.69	0.57
1:C:105:ARG:HH11	1:C:105:ARG:HG3	1.68	0.57
1:C:198:LYS:C	1:C:200:THR:H	2.12	0.57
1:C:276:TRP:CE3	1:C:277:LEU:HD23	2.39	0.57
1:C:655:TRP:NE1	1:D:496:LYS:CB	2.45	0.57
1:C:666:ARG:HD2	1:D:503:PHE:CD1	2.39	0.57
1:D:115:CYS:SG	1:D:432:GLN:HA	2.45	0.57
1:D:120:GLY:HA2	1:D:123:ARG:H	1.70	0.57
1:D:423:TYR:CD2	1:D:424:THR:HG23	2.38	0.57
1:E:492:ILE:HG23	1:F:651:GLN:NE2	2.17	0.57
1:F:83:LEU:HD21	1:F:86:LEU:HD11	1.85	0.57
1:F:134:ARG:HD2	1:F:300:PHE:CE1	2.39	0.57
1:G:30:LEU:HD13	1:G:32:TRP:NE1	2.20	0.57
1:H:83:LEU:HD21	1:H:86:LEU:HD11	1.85	0.57
1:H:120:GLY:HA2	1:H:123:ARG:H	1.68	0.57
1:H:274:GLU:O	1:H:278:GLN:HB2	2.05	0.57
1:A:315:MET:HB3	1:A:387:ILE:HA	1.86	0.57
1:C:224:PRO:HG2	1:C:255:PHE:HE2	1.67	0.57
1:D:171:LYS:HD2	1:D:177:GLU:HG2	1.87	0.57
1:D:438:ARG:HG2	1:D:564:GLU:OE1	2.05	0.57
1:D:466:SER:HB3	1:D:537:MET:HE1	1.85	0.57
1:E:229:VAL:HG13	1:H:229:VAL:CG1	2.29	0.57
1:E:316:ASN:O	1:E:317:MET:HB2	2.04	0.57
1:E:320:GLY:O	1:E:321:ARG:C	2.47	0.57
1:E:348:GLU:H	1:E:348:GLU:CD	2.11	0.57
1:A:115:CYS:HB2	1:A:435:GLN:HG3	1.85	0.57
1:A:119:GLU:CB	1:A:121:PRO:CD	2.81	0.57
1:A:563:LEU:HD23	1:A:597:ALA:HB2	1.85	0.57
1:B:105:ARG:HH11	1:B:105:ARG:HG3	1.69	0.57
1:C:120:GLY:HA2	1:C:123:ARG:H	1.69	0.57
1:C:472:MET:O	1:C:472:MET:HG3	2.04	0.57
1:H:107:TYR:HA	1:H:110:GLN:HB2	1.86	0.57
1:A:89:ASN:C	1:A:91:LEU:H	2.12	0.57
1:A:119:GLU:HB2	1:A:121:PRO:CD	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:480:LYS:CE	1:B:527:GLU:HB2	2.35	0.57
1:B:507:SER:C	1:B:509:LYS:H	2.13	0.57
1:C:120:GLY:HA2	1:C:123:ARG:HB2	1.85	0.57
1:C:233:GLY:C	1:C:235:VAL:H	2.12	0.57
1:E:115:CYS:O	1:E:263:ASN:HA	2.05	0.57
1:E:473:THR:CG2	1:E:533:LEU:HD21	2.33	0.57
1:F:434:TRP:HZ3	1:F:568:ARG:CA	2.16	0.57
1:F:478:GLN:CG	1:F:479:LEU:N	2.67	0.57
1:G:117:LEU:O	1:G:119:GLU:HG2	2.04	0.57
1:A:277:LEU:C	1:A:279:CYS:H	2.13	0.57
1:C:319:SER:O	1:C:321:ARG:N	2.34	0.57
1:C:338:SER:OG	1:E:284:HIS:HE1	1.88	0.57
1:D:536:LYS:O	1:D:625:LEU:CD1	2.45	0.57
1:D:570:LEU:HD23	1:D:590:MET:CG	2.32	0.57
1:E:189:LEU:CG	1:E:190:ALA:N	2.64	0.57
1:E:262:PRO:HB3	1:E:409:SER:HG	1.69	0.57
1:E:434:TRP:HZ3	1:E:568:ARG:HG3	1.68	0.57
1:E:570:LEU:CD2	1:E:590:MET:HE2	2.35	0.57
1:F:350:GLU:HA	1:F:391:ASP:OD2	2.04	0.57
1:G:285:GLN:NE2	1:G:286:ARG:HH12	2.02	0.57
1:G:320:GLY:O	1:G:321:ARG:C	2.47	0.57
1:A:348:GLU:CD	1:A:348:GLU:H	2.13	0.57
1:B:319:SER:O	1:B:321:ARG:N	2.34	0.57
1:B:387:ILE:CD1	1:B:450:GLY:N	2.68	0.57
1:B:438:ARG:HG2	1:B:564:GLU:OE1	2.05	0.57
1:C:271:GLY:HA2	1:C:275:ARG:HH21	1.70	0.57
1:D:387:ILE:HD12	1:D:450:GLY:CA	2.35	0.57
1:D:478:GLN:CG	1:D:479:LEU:N	2.68	0.57
1:E:274:GLU:O	1:E:278:GLN:HB2	2.05	0.57
1:E:499:GLU:C	1:E:500:GLN:HE21	2.13	0.57
1:G:50:LEU:H	1:G:55:ARG:HD3	1.70	0.57
1:H:50:LEU:H	1:H:55:ARG:HD3	1.69	0.57
1:H:171:LYS:HD2	1:H:177:GLU:HG2	1.86	0.57
1:A:103:ASP:HB3	1:A:106:LYS:HG3	1.87	0.57
1:A:231:TRP:HE3	1:D:236:ARG:NH2	1.98	0.57
1:A:265:LEU:HD23	1:A:269:LEU:HB3	1.86	0.57
1:B:118:LYS:HG2	1:B:265:LEU:HA	1.87	0.57
1:B:285:GLN:NE2	1:B:286:ARG:HH12	2.03	0.57
1:B:490:ILE:HG23	1:B:490:ILE:O	2.04	0.57
1:B:540:LEU:CD2	1:B:621:LYS:HZ1	2.18	0.57
1:D:386:LEU:H	1:D:386:LEU:CD1	2.18	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:120:GLY:HA2	1:E:123:ARG:HB2	1.87	0.57
1:E:333:LEU:HD11	1:E:353:LEU:HD13	1.86	0.57
1:F:243:ILE:N	1:F:245:VAL:HG23	2.19	0.57
1:F:249:LEU:O	1:F:250:THR:HG23	2.05	0.57
1:F:517:MET:SD	1:F:650:ARG:HG3	2.45	0.57
1:G:108:LEU:HD21	1:G:215:CYS:SG	2.45	0.57
1:G:130:SER:O	1:G:300:PHE:HE1	1.88	0.57
1:H:131:SER:O	1:H:134:ARG:HB3	2.05	0.57
1:H:333:LEU:HD11	1:H:353:LEU:HD13	1.87	0.57
1:A:213:PHE:C	1:A:213:PHE:CD2	2.83	0.56
1:A:247:ASP:HB2	1:A:255:PHE:O	2.06	0.56
1:A:570:LEU:HD23	1:A:590:MET:CG	2.34	0.56
1:C:415:GLN:NE2	1:C:429:VAL:HG11	2.20	0.56
1:D:533:LEU:CD2	1:D:629:VAL:HG13	2.35	0.56
1:E:655:TRP:NE1	1:F:496:LYS:CB	2.37	0.56
1:F:434:TRP:CZ3	1:F:568:ARG:HG3	2.39	0.56
1:F:656:ASN:C	1:F:656:ASN:OD1	2.48	0.56
1:H:107:TYR:HD1	1:H:153:LEU:HD12	1.70	0.56
1:H:632:VAL:C	1:H:633:MET:SD	2.88	0.56
1:A:189:LEU:CG	1:A:190:ALA:N	2.64	0.56
1:A:249:LEU:HA	1:A:253:VAL:O	2.05	0.56
1:B:368:THR:HA	1:B:371:VAL:CG2	2.32	0.56
1:C:103:ASP:HB3	1:C:106:LYS:HG3	1.87	0.56
1:C:107:TYR:O	1:C:110:GLN:CB	2.53	0.56
1:C:111:PHE:HZ	1:C:572:ARG:CG	2.08	0.56
1:C:117:LEU:O	1:C:119:GLU:HG2	2.04	0.56
1:C:497:TYR:O	1:C:497:TYR:HD2	1.83	0.56
1:C:536:LYS:HB3	1:C:625:LEU:CD1	2.14	0.56
1:D:249:LEU:HD23	1:D:252:ALA:CA	2.24	0.56
1:E:281:LEU:O	1:E:282:MET:HE3	2.05	0.56
1:E:587:SER:OG	1:E:588:ASN:N	2.34	0.56
1:F:125:LEU:HD21	1:F:215:CYS:SG	2.45	0.56
1:F:182:PHE:CE1	1:F:194:LEU:HD22	2.40	0.56
1:F:213:PHE:O	1:F:216:ILE:N	2.38	0.56
1:F:490:ILE:O	1:F:490:ILE:HG23	2.05	0.56
1:G:249:LEU:HA	1:G:253:VAL:O	2.05	0.56
1:G:423:TYR:CD2	1:G:424:THR:HG23	2.40	0.56
1:A:373:ASP:CG	1:A:374:CYS:SG	2.88	0.56
1:A:540:LEU:HD11	1:A:622:ALA:HB2	1.86	0.56
1:B:224:PRO:HG2	1:B:255:PHE:HE2	1.69	0.56
1:C:105:ARG:HG2	1:C:109:ASN:HD21	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:107:TYR:HD1	1:C:153:LEU:HD12	1.70	0.56
1:C:183:VAL:HG12	1:C:184:GLY:N	2.20	0.56
1:C:222:PHE:CD2	1:C:224:PRO:O	2.59	0.56
1:C:243:ILE:N	1:C:245:VAL:HG23	2.20	0.56
1:D:30:LEU:HD13	1:D:32:TRP:NE1	2.21	0.56
1:D:105:ARG:HG2	1:D:109:ASN:HD21	1.69	0.56
1:D:198:LYS:HG2	1:D:284:HIS:HA	1.87	0.56
1:D:315:MET:HB3	1:D:387:ILE:HA	1.86	0.56
1:D:507:SER:C	1:D:509:LYS:H	2.14	0.56
1:E:260:PRO:CB	1:E:273:LEU:HD13	2.35	0.56
1:E:478:GLN:HE21	1:E:479:LEU:HD23	1.70	0.56
1:E:490:ILE:HG23	1:E:490:ILE:O	2.03	0.56
1:E:531:GLN:O	1:E:535:ASP:N	2.35	0.56
1:F:30:LEU:HD13	1:F:32:TRP:NE1	2.20	0.56
1:F:233:GLY:C	1:F:235:VAL:H	2.13	0.56
1:F:247:ASP:HB2	1:F:255:PHE:O	2.05	0.56
1:F:319:SER:O	1:F:321:ARG:N	2.35	0.56
1:F:422:THR:HB	1:F:585:GLY:HA3	1.84	0.56
1:F:472:MET:SD	1:F:633:MET:HB2	2.45	0.56
1:F:536:LYS:O	1:F:625:LEU:HD13	2.05	0.56
1:G:274:GLU:O	1:G:278:GLN:HB2	2.05	0.56
1:H:249:LEU:HD23	1:H:252:ALA:CA	2.27	0.56
1:H:587:SER:OG	1:H:588:ASN:N	2.35	0.56
1:B:18:LYS:HZ2	1:B:33:ILE:HD12	1.70	0.56
1:B:171:LYS:HD2	1:B:177:GLU:HG2	1.88	0.56
1:B:262:PRO:CB	1:B:409:SER:OG	2.45	0.56
1:B:451:GLN:NE2	1:B:608:ILE:O	2.38	0.56
1:B:472:MET:HG3	1:B:472:MET:O	2.05	0.56
1:C:222:PHE:CD2	1:C:255:PHE:CD2	2.93	0.56
1:C:430:TRP:CE3	1:C:574:LEU:HD22	2.40	0.56
1:C:433:ILE:CB	1:C:571:TYR:OH	2.53	0.56
1:C:582:ARG:H	1:C:582:ARG:CD	2.19	0.56
1:D:89:ASN:C	1:D:91:LEU:H	2.13	0.56
1:D:222:PHE:CD2	1:D:255:PHE:CD2	2.93	0.56
1:D:262:PRO:HB3	1:D:409:SER:HG	1.65	0.56
1:E:171:LYS:HD2	1:E:177:GLU:HG2	1.88	0.56
1:F:389:LEU:HD11	1:F:454:SER:OG	2.05	0.56
1:F:507:SER:C	1:F:509:LYS:H	2.13	0.56
1:G:89:ASN:C	1:G:91:LEU:H	2.12	0.56
1:G:224:PRO:HG2	1:G:255:PHE:HE2	1.68	0.56
1:A:249:LEU:HD23	1:A:252:ALA:CA	2.27	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:249:LEU:O	1:A:250:THR:HG23	2.05	0.56
1:A:438:ARG:HG2	1:A:564:GLU:HG3	1.86	0.56
1:B:107:TYR:HA	1:B:110:GLN:HB2	1.87	0.56
1:B:281:LEU:O	1:B:282:MET:HE3	2.04	0.56
1:C:107:TYR:HA	1:C:110:GLN:HB2	1.87	0.56
1:C:485:PHE:CE2	1:D:485:PHE:HB2	2.37	0.56
1:C:496:LYS:HB2	1:D:655:TRP:HE1	0.43	0.56
1:D:540:LEU:CD1	1:D:622:ALA:HB2	2.36	0.56
1:E:107:TYR:HA	1:E:110:GLN:HB2	1.88	0.56
1:F:348:GLU:CD	1:F:348:GLU:H	2.12	0.56
1:F:475:GLU:CG	1:F:636:MET:HE1	2.35	0.56
1:F:480:LYS:HZ1	1:F:527:GLU:HB2	1.70	0.56
1:H:531:GLN:O	1:H:535:ASP:N	2.35	0.56
1:A:26:PHE:HE2	1:A:181:GLU:CD	2.13	0.56
1:A:28:TYR:HD2	1:A:45:GLN:HE21	1.54	0.56
1:A:183:VAL:HG12	1:A:184:GLY:N	2.20	0.56
1:B:521:VAL:CG1	1:B:643:VAL:CG1	2.78	0.56
1:C:265:LEU:HD21	1:C:269:LEU:HB3	1.87	0.56
1:D:357:SER:HB3	1:D:453:THR:HB	1.86	0.56
1:E:30:LEU:HD13	1:E:32:TRP:NE1	2.20	0.56
1:E:62:ILE:HG23	1:E:94:LEU:HD13	1.87	0.56
1:E:521:VAL:HA	1:E:524:CYS:HG	1.67	0.56
1:F:119:GLU:HB2	1:F:121:PRO:CD	2.36	0.56
1:G:472:MET:CG	1:G:633:MET:HB2	2.35	0.56
1:G:473:THR:HG21	1:G:629:VAL:HG13	1.87	0.56
1:H:348:GLU:H	1:H:348:GLU:CD	2.13	0.56
1:A:171:LYS:HD2	1:A:177:GLU:HG2	1.86	0.56
1:A:320:GLY:O	1:A:321:ARG:C	2.48	0.56
1:B:119:GLU:HB2	1:B:121:PRO:CD	2.35	0.56
1:C:540:LEU:HD12	1:C:622:ALA:HB2	1.87	0.56
1:D:368:THR:HA	1:D:371:VAL:CG2	2.32	0.56
1:F:213:PHE:C	1:F:213:PHE:CD2	2.84	0.56
1:G:105:ARG:HH11	1:G:105:ARG:HG3	1.70	0.56
1:G:190:ALA:HB3	1:G:203:VAL:HG22	1.88	0.56
1:G:263:ASN:ND2	1:G:265:LEU:N	2.53	0.56
1:H:224:PRO:HG2	1:H:255:PHE:HE2	1.70	0.56
1:H:387:ILE:HD12	1:H:450:GLY:N	2.21	0.56
1:A:120:GLY:C	1:A:122:ILE:N	2.63	0.56
1:B:222:PHE:CD2	1:B:224:PRO:O	2.59	0.56
1:B:249:LEU:HD23	1:B:252:ALA:CA	2.28	0.56
1:B:348:GLU:H	1:B:348:GLU:CD	2.14	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:626:SER:OG	1:B:627:PRO:HD3	2.05	0.56
1:C:107:TYR:C	1:C:110:GLN:H	2.12	0.56
1:C:263:ASN:HD21	1:C:265:LEU:N	2.02	0.56
1:C:263:ASN:HD21	1:C:265:LEU:H	1.53	0.56
1:C:320:GLY:O	1:C:321:ARG:C	2.48	0.56
1:C:430:TRP:HB3	1:C:571:TYR:CD2	2.33	0.56
1:C:547:LEU:HD13	1:C:615:THR:HG23	1.82	0.56
1:D:120:GLY:C	1:D:122:ILE:N	2.63	0.56
1:D:503:PHE:O	1:D:505:ILE:HG13	2.06	0.56
1:E:276:TRP:CE3	1:E:277:LEU:HD23	2.40	0.56
1:F:144:ARG:HD2	1:F:171:LYS:CB	2.36	0.56
1:F:171:LYS:HD2	1:F:177:GLU:HG2	1.86	0.56
1:F:373:ASP:CG	1:F:374:CYS:SG	2.89	0.56
1:G:430:TRP:HB3	1:G:571:TYR:HD2	1.71	0.56
1:H:145:ASP:CG	1:H:167:LEU:HD13	2.31	0.56
1:B:362:ASN:O	1:B:364:ALA:N	2.39	0.56
1:B:429:VAL:HG12	1:B:430:TRP:HD1	1.70	0.56
1:C:626:SER:OG	1:C:627:PRO:HD3	2.06	0.56
1:D:274:GLU:O	1:D:278:GLN:HB2	2.06	0.56
1:D:626:SER:OG	1:D:627:PRO:HD3	2.06	0.56
1:E:315:MET:HB3	1:E:387:ILE:HA	1.88	0.56
1:F:107:TYR:HD1	1:F:153:LEU:HD12	1.70	0.56
1:F:107:TYR:C	1:F:110:GLN:H	2.13	0.56
1:F:131:SER:O	1:F:134:ARG:HB3	2.05	0.56
1:F:274:GLU:O	1:F:278:GLN:HB2	2.06	0.56
1:F:316:ASN:O	1:F:317:MET:HB2	2.06	0.56
1:G:18:LYS:HZ2	1:G:33:ILE:HG21	1.70	0.56
1:H:104:LEU:HB3	1:H:148:PRO:O	2.05	0.56
1:H:117:LEU:O	1:H:119:GLU:HG2	2.05	0.56
1:A:433:ILE:CB	1:A:571:TYR:OH	2.53	0.56
1:A:437:ILE:HG22	1:A:564:GLU:HB2	1.88	0.56
1:B:62:ILE:HG23	1:B:94:LEU:HD13	1.88	0.56
1:C:171:LYS:HD2	1:C:177:GLU:HG2	1.87	0.56
1:C:274:GLU:O	1:C:278:GLN:HB2	2.06	0.56
1:C:315:MET:HB3	1:C:387:ILE:HA	1.88	0.56
1:C:350:GLU:OE2	1:C:391:ASP:O	2.23	0.56
1:D:134:ARG:HB2	1:D:300:PHE:HE1	1.69	0.56
1:D:222:PHE:CD2	1:D:224:PRO:O	2.59	0.56
1:D:480:LYS:HE3	1:D:527:GLU:HB2	1.88	0.56
1:E:655:TRP:CD1	1:F:496:LYS:HB2	2.37	0.56
1:E:665:VAL:HG22	1:F:665:VAL:HG21	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:429:VAL:HG12	1:F:430:TRP:HD1	1.69	0.56
1:G:222:PHE:CD2	1:G:255:PHE:CD2	2.94	0.56
1:G:319:SER:O	1:G:321:ARG:N	2.35	0.56
1:G:359:LEU:CA	1:G:460:ARG:HH12	2.11	0.56
1:H:433:ILE:HG21	1:H:571:TYR:OH	2.05	0.56
1:A:116:GLY:N	1:A:217:THR:O	2.39	0.55
1:A:131:SER:O	1:A:134:ARG:HB3	2.06	0.55
1:A:429:VAL:HG12	1:A:430:TRP:HD1	1.72	0.55
1:A:547:LEU:CD1	1:A:615:THR:CG2	2.54	0.55
1:A:587:SER:OG	1:A:588:ASN:N	2.38	0.55
1:B:316:ASN:O	1:B:317:MET:HB2	2.05	0.55
1:B:660:ILE:C	1:B:662:CYS:N	2.65	0.55
1:C:485:PHE:CD2	1:D:485:PHE:CG	2.94	0.55
1:D:26:PHE:CE2	1:D:181:GLU:OE1	2.55	0.55
1:E:478:GLN:CG	1:E:479:LEU:N	2.69	0.55
1:F:517:MET:HG3	1:F:646:ARG:NH1	2.13	0.55
1:G:386:LEU:H	1:G:386:LEU:CD1	2.20	0.55
1:G:419:ARG:NH1	1:G:588:ASN:HA	2.21	0.55
1:H:220:ARG:CB	1:H:221:PRO:HD2	2.35	0.55
1:B:89:ASN:HB3	1:B:91:LEU:H	1.72	0.55
1:B:220:ARG:NH1	1:B:223:LEU:CD2	2.70	0.55
1:B:263:ASN:ND2	1:B:265:LEU:N	2.54	0.55
1:C:131:SER:O	1:C:134:ARG:HB3	2.06	0.55
1:C:262:PRO:HB3	1:C:409:SER:HG	1.69	0.55
1:C:334:GLN:HA	1:C:337:LYS:HB2	1.87	0.55
1:C:419:ARG:CA	1:C:587:SER:OG	2.51	0.55
1:D:183:VAL:HG12	1:D:184:GLY:N	2.21	0.55
1:D:220:ARG:CB	1:D:221:PRO:HD2	2.37	0.55
1:D:263:ASN:ND2	1:D:265:LEU:N	2.54	0.55
1:D:265:LEU:HD21	1:D:269:LEU:HB3	1.87	0.55
1:D:348:GLU:CD	1:D:348:GLU:H	2.14	0.55
1:E:576:GLU:OE2	1:F:573:ARG:NH2	2.40	0.55
1:F:582:ARG:H	1:F:582:ARG:CD	2.19	0.55
1:G:107:TYR:HD1	1:G:153:LEU:HD12	1.71	0.55
1:G:220:ARG:CB	1:G:221:PRO:HD2	2.37	0.55
1:H:222:PHE:CD2	1:H:224:PRO:O	2.60	0.55
1:A:116:GLY:HA2	1:A:217:THR:O	2.07	0.55
1:A:386:LEU:H	1:A:386:LEU:CD1	2.19	0.55
1:A:478:GLN:HE21	1:A:479:LEU:HD23	1.71	0.55
1:B:28:TYR:HD2	1:B:45:GLN:HE21	1.53	0.55
1:B:316:ASN:O	1:B:317:MET:CB	2.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:368:THR:HA	1:C:371:VAL:CG2	2.31	0.55
1:C:502:GLU:HG3	1:D:666:ARG:HH12	1.70	0.55
1:D:422:THR:HG21	1:D:586:ASP:C	2.30	0.55
1:D:517:MET:HG3	1:D:646:ARG:NH1	2.21	0.55
1:G:26:PHE:CE2	1:G:181:GLU:CD	2.84	0.55
1:G:429:VAL:HG12	1:G:430:TRP:HD1	1.69	0.55
1:G:570:LEU:HD23	1:G:590:MET:HG2	1.87	0.55
1:H:105:ARG:HG3	1:H:105:ARG:HH11	1.71	0.55
1:H:183:VAL:HG12	1:H:184:GLY:N	2.21	0.55
1:H:191:PRO:HG3	1:H:234:LYS:NZ	2.22	0.55
1:H:260:PRO:CG	1:H:274:GLU:HG2	2.36	0.55
1:H:320:GLY:O	1:H:321:ARG:C	2.49	0.55
1:A:233:GLY:C	1:A:235:VAL:H	2.14	0.55
1:A:236:ARG:NH2	1:D:231:TRP:HE3	1.98	0.55
1:B:274:GLU:O	1:B:278:GLN:HB2	2.06	0.55
1:C:249:LEU:HD23	1:C:252:ALA:CA	2.27	0.55
1:C:362:ASN:O	1:C:364:ALA:N	2.40	0.55
1:D:150:ASN:ND2	1:D:167:LEU:HD12	2.16	0.55
1:D:484:ASP:C	1:D:486:PHE:N	2.58	0.55
1:F:315:MET:HB3	1:F:387:ILE:HA	1.87	0.55
1:F:387:ILE:HG22	1:F:388:PHE:H	1.71	0.55
1:F:517:MET:HE3	1:F:647:GLN:OE1	2.05	0.55
1:H:30:LEU:HD13	1:H:32:TRP:NE1	2.22	0.55
1:A:107:TYR:C	1:A:110:GLN:H	2.14	0.55
1:A:120:GLY:N	1:A:122:ILE:H	2.05	0.55
1:C:18:LYS:HZ2	1:C:33:ILE:HD12	1.71	0.55
1:C:30:LEU:HD13	1:C:32:TRP:NE1	2.20	0.55
1:C:182:PHE:CE1	1:C:194:LEU:HD22	2.41	0.55
1:C:641:LYS:HB3	1:C:645:ARG:NH2	2.16	0.55
1:D:249:LEU:O	1:D:250:THR:HG23	2.07	0.55
1:E:187:GLN:CB	1:E:223:LEU:CD2	2.71	0.55
1:E:265:LEU:HD23	1:E:269:LEU:HB3	1.88	0.55
1:F:104:LEU:HB3	1:F:148:PRO:O	2.07	0.55
1:F:285:GLN:NE2	1:F:286:ARG:HH12	2.04	0.55
1:G:281:LEU:O	1:G:282:MET:HE3	2.06	0.55
1:G:433:ILE:HB	1:G:571:TYR:CZ	2.42	0.55
1:H:249:LEU:O	1:H:250:THR:HG23	2.06	0.55
1:H:430:TRP:CE3	1:H:574:LEU:HD22	2.42	0.55
1:A:33:ILE:HG22	1:A:34:HIS:C	2.31	0.55
1:A:134:ARG:CA	1:A:300:PHE:CZ	2.84	0.55
1:B:107:TYR:O	1:B:110:GLN:CB	2.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:144:ARG:HD2	1:B:171:LYS:CB	2.36	0.55
1:C:89:ASN:HB3	1:C:91:LEU:H	1.72	0.55
1:C:235:VAL:CB	1:C:243:ILE:HA	2.36	0.55
1:C:260:PRO:CG	1:C:274:GLU:HG2	2.37	0.55
1:C:478:GLN:HE21	1:C:479:LEU:HD23	1.71	0.55
1:C:656:ASN:C	1:C:656:ASN:OD1	2.48	0.55
1:D:243:ILE:N	1:D:245:VAL:HG23	2.22	0.55
1:F:472:MET:O	1:F:472:MET:HG3	2.07	0.55
1:F:478:GLN:HE21	1:F:479:LEU:HD23	1.72	0.55
1:G:107:TYR:HA	1:G:110:GLN:HB2	1.89	0.55
1:H:263:ASN:ND2	1:H:265:LEU:N	2.54	0.55
1:H:345:GLY:O	1:H:347:PRO:HD3	2.06	0.55
1:H:387:ILE:HD12	1:H:450:GLY:CA	2.37	0.55
1:A:62:ILE:HG23	1:A:94:LEU:HD13	1.89	0.55
1:A:145:ASP:CG	1:A:167:LEU:HD13	2.32	0.55
1:A:191:PRO:HG3	1:A:234:LYS:NZ	2.21	0.55
1:B:30:LEU:HD13	1:B:32:TRP:NE1	2.21	0.55
1:B:107:TYR:C	1:B:110:GLN:H	2.13	0.55
1:B:497:TYR:CE2	1:B:511:LEU:HD22	2.42	0.55
1:B:660:ILE:O	1:B:662:CYS:N	2.40	0.55
1:C:28:TYR:HD2	1:C:45:GLN:HE21	1.53	0.55
1:C:478:GLN:OE1	1:D:481:ALA:CB	2.55	0.55
1:C:490:ILE:HG23	1:C:490:ILE:O	2.07	0.55
1:C:633:MET:SD	1:C:633:MET:N	2.80	0.55
1:C:647:GLN:OE1	1:C:647:GLN:CA	2.55	0.55
1:D:157:PRO:HD2	1:D:161:ILE:HD11	1.89	0.55
1:D:443:ASP:O	1:D:446:ARG:HB2	2.05	0.55
1:D:478:GLN:HE21	1:D:479:LEU:HD23	1.72	0.55
1:D:656:ASN:C	1:D:656:ASN:OD1	2.49	0.55
1:E:89:ASN:HB3	1:E:91:LEU:H	1.72	0.55
1:E:107:TYR:O	1:E:110:GLN:CB	2.54	0.55
1:E:224:PRO:HG2	1:E:255:PHE:HE2	1.71	0.55
1:E:297:VAL:HB	1:E:301:GLN:H	1.72	0.55
1:F:222:PHE:CZ	1:F:225:ASN:HB2	2.40	0.55
1:F:644:VAL:O	1:F:644:VAL:HG12	2.07	0.55
1:H:233:GLY:C	1:H:235:VAL:H	2.14	0.55
1:H:247:ASP:HB2	1:H:255:PHE:O	2.07	0.55
1:H:449:GLN:OE1	1:H:449:GLN:HA	2.06	0.55
1:A:570:LEU:HB3	1:A:590:MET:HE3	1.87	0.55
1:B:120:GLY:N	1:B:122:ILE:H	2.05	0.55
1:B:131:SER:O	1:B:134:ARG:HB3	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:243:ILE:N	1:B:245:VAL:HG23	2.21	0.55
1:B:433:ILE:CG2	1:B:571:TYR:OH	2.55	0.55
1:E:285:GLN:NE2	1:E:286:ARG:HH12	2.05	0.55
1:E:386:LEU:H	1:E:386:LEU:CD1	2.20	0.55
1:E:626:SER:OG	1:E:627:PRO:HD3	2.07	0.55
1:F:103:ASP:HB3	1:F:106:LYS:HG3	1.89	0.55
1:F:120:GLY:C	1:F:122:ILE:N	2.65	0.55
1:G:104:LEU:HB3	1:G:148:PRO:O	2.07	0.55
1:H:28:TYR:HD2	1:H:45:GLN:HE21	1.54	0.55
1:A:100:GLU:H	1:A:154:GLN:HG3	1.72	0.55
1:A:100:GLU:N	1:A:154:GLN:HG3	2.21	0.55
1:A:220:ARG:CB	1:A:221:PRO:HD2	2.36	0.55
1:A:521:VAL:HA	1:A:524:CYS:HG	1.69	0.55
1:B:107:TYR:HD1	1:B:153:LEU:HD12	1.70	0.55
1:B:120:GLY:CA	1:B:123:ARG:H	2.19	0.55
1:B:157:PRO:HD2	1:B:161:ILE:HD11	1.88	0.55
1:C:651:GLN:NE2	1:D:492:ILE:HG21	2.20	0.55
1:D:362:ASN:O	1:D:364:ALA:N	2.40	0.55
1:D:448:LEU:HD23	1:D:608:ILE:HG12	1.88	0.55
1:E:430:TRP:CE3	1:E:574:LEU:HD22	2.42	0.55
1:F:107:TYR:HA	1:F:110:GLN:HB2	1.89	0.55
1:F:265:LEU:HD23	1:F:269:LEU:HB3	1.88	0.55
1:F:316:ASN:O	1:F:317:MET:CB	2.55	0.55
1:G:131:SER:O	1:G:134:ARG:HB3	2.07	0.55
1:G:144:ARG:HD2	1:G:171:LYS:CB	2.37	0.55
1:B:438:ARG:CG	1:B:564:GLU:HG3	2.35	0.55
1:D:265:LEU:HD23	1:D:269:LEU:HB3	1.87	0.55
1:D:281:LEU:O	1:D:282:MET:HE3	2.07	0.55
1:D:527:GLU:O	1:D:529:GLU:N	2.40	0.55
1:E:193:LEU:HD22	1:E:231:TRP:CD1	2.41	0.55
1:E:247:ASP:HB2	1:E:255:PHE:O	2.06	0.55
1:F:26:PHE:CE2	1:F:181:GLU:CD	2.85	0.55
1:F:28:TYR:HD2	1:F:45:GLN:HE21	1.54	0.55
1:F:219:PHE:O	1:F:220:ARG:HG3	1.85	0.55
1:F:373:ASP:C	1:F:374:CYS:SG	2.90	0.55
1:G:89:ASN:HB3	1:G:91:LEU:H	1.72	0.55
1:G:277:LEU:C	1:G:279:CYS:H	2.14	0.55
1:H:222:PHE:CD2	1:H:255:PHE:CD2	2.94	0.55
1:H:265:LEU:HD23	1:H:269:LEU:CB	2.37	0.55
1:H:426:LEU:HB2	1:H:574:LEU:HD21	1.88	0.55
1:H:429:VAL:HG12	1:H:430:TRP:HD1	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:281:LEU:O	1:A:282:MET:HE3	2.07	0.54
1:B:616:VAL:HG13	1:B:619:LYS:HD2	1.88	0.54
1:D:350:GLU:OE2	1:D:391:ASP:O	2.26	0.54
1:E:28:TYR:HD2	1:E:45:GLN:HE21	1.54	0.54
1:F:148:PRO:HD3	1:F:188:TYR:CZ	2.42	0.54
1:G:183:VAL:HG12	1:G:184:GLY:N	2.20	0.54
1:H:89:ASN:HB3	1:H:91:LEU:H	1.72	0.54
1:H:119:GLU:HB2	1:H:121:PRO:CD	2.36	0.54
1:H:386:LEU:H	1:H:386:LEU:CD1	2.20	0.54
1:H:564:GLU:OE2	1:H:568:ARG:NH2	2.41	0.54
1:A:235:VAL:CB	1:A:243:ILE:HA	2.37	0.54
1:B:249:LEU:O	1:B:250:THR:HG23	2.06	0.54
1:B:265:LEU:HD21	1:B:269:LEU:HB3	1.89	0.54
1:C:26:PHE:CE2	1:C:179:CYS:HB3	2.40	0.54
1:C:224:PRO:HG3	1:C:428:ARG:HH22	1.73	0.54
1:C:434:TRP:CZ3	1:C:568:ARG:CA	2.82	0.54
1:C:658:LEU:HA	1:D:658:LEU:HD12	1.90	0.54
1:C:666:ARG:CG	1:D:503:PHE:CE1	2.90	0.54
1:D:33:ILE:HG22	1:D:34:HIS:C	2.32	0.54
1:D:107:TYR:HD1	1:D:153:LEU:HD12	1.69	0.54
1:D:107:TYR:C	1:D:110:GLN:H	2.14	0.54
1:D:472:MET:HG3	1:D:472:MET:O	2.06	0.54
1:F:118:LYS:HG2	1:F:264:HIS:C	2.32	0.54
1:H:277:LEU:C	1:H:279:CYS:H	2.15	0.54
1:A:274:GLU:O	1:A:278:GLN:HB2	2.07	0.54
1:A:327:VAL:CG1	1:A:367:LEU:HB2	2.31	0.54
1:B:297:VAL:HB	1:B:301:GLN:H	1.72	0.54
1:C:157:PRO:HD2	1:C:161:ILE:HD11	1.90	0.54
1:C:660:ILE:O	1:C:662:CYS:N	2.40	0.54
1:D:220:ARG:NH1	1:D:223:LEU:CD2	2.69	0.54
1:D:514:TRP:O	1:D:518:GLU:HG3	2.06	0.54
1:D:587:SER:OG	1:D:588:ASN:N	2.36	0.54
1:E:107:TYR:C	1:E:110:GLN:H	2.14	0.54
1:E:148:PRO:HD3	1:E:188:TYR:CZ	2.42	0.54
1:E:263:ASN:HD21	1:E:265:LEU:N	2.05	0.54
1:E:449:GLN:OE1	1:E:449:GLN:HA	2.08	0.54
1:E:540:LEU:HD12	1:E:622:ALA:HB2	1.81	0.54
1:F:386:LEU:H	1:F:386:LEU:CD1	2.20	0.54
1:G:33:ILE:HG22	1:G:34:HIS:C	2.32	0.54
1:G:233:GLY:C	1:G:235:VAL:H	2.16	0.54
1:G:626:SER:OG	1:G:627:PRO:HD3	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:150:ASN:OD1	1:H:150:ASN:N	2.33	0.54
1:H:157:PRO:HD2	1:H:161:ILE:HD11	1.89	0.54
1:H:626:SER:OG	1:H:627:PRO:HD3	2.07	0.54
1:A:105:ARG:HH11	1:A:105:ARG:HG3	1.71	0.54
1:B:260:PRO:CG	1:B:274:GLU:HG2	2.37	0.54
1:C:637:ARG:O	1:C:641:LYS:HB2	2.08	0.54
1:D:536:LYS:HB3	1:D:625:LEU:CD2	2.37	0.54
1:E:222:PHE:CD2	1:E:224:PRO:O	2.61	0.54
1:E:494:LEU:HD21	1:E:518:GLU:OE2	2.06	0.54
1:E:536:LYS:HB3	1:E:625:LEU:CD1	2.15	0.54
1:F:246:TYR:CD1	1:F:258:VAL:CB	2.71	0.54
1:F:521:VAL:HG13	1:F:643:VAL:CG1	2.36	0.54
1:F:616:VAL:HG13	1:F:619:LYS:HD2	1.90	0.54
1:G:362:ASN:O	1:G:364:ALA:N	2.40	0.54
1:H:144:ARG:HD2	1:H:171:LYS:CB	2.38	0.54
1:H:449:GLN:NE2	1:H:453:THR:HG22	2.22	0.54
1:A:104:LEU:HB3	1:A:148:PRO:O	2.07	0.54
1:A:510:LEU:HD12	1:A:657:LEU:HD13	1.88	0.54
1:C:144:ARG:HD2	1:C:171:LYS:CB	2.38	0.54
1:C:497:TYR:HB2	1:D:655:TRP:HH2	1.72	0.54
1:D:315:MET:HE3	1:D:447:LEU:HD23	1.88	0.54
1:E:33:ILE:HG22	1:E:34:HIS:C	2.33	0.54
1:E:144:ARG:HD2	1:E:171:LYS:CB	2.38	0.54
1:F:89:ASN:HB3	1:F:91:LEU:H	1.73	0.54
1:F:107:TYR:O	1:F:110:GLN:CB	2.55	0.54
1:F:277:LEU:C	1:F:279:CYS:H	2.16	0.54
1:F:394:LYS:HE2	1:F:401:ILE:HA	1.88	0.54
1:G:265:LEU:HD21	1:G:269:LEU:HB3	1.88	0.54
1:G:348:GLU:CD	1:G:348:GLU:H	2.14	0.54
1:H:362:ASN:O	1:H:364:ALA:N	2.41	0.54
1:B:117:LEU:O	1:B:119:GLU:HG2	2.07	0.54
1:B:501:MET:CA	1:B:505:ILE:CD1	2.85	0.54
1:B:641:LYS:HB3	1:B:645:ARG:NH2	2.13	0.54
1:C:297:VAL:HB	1:C:301:GLN:H	1.72	0.54
1:C:386:LEU:H	1:C:386:LEU:CD1	2.21	0.54
1:C:419:ARG:N	1:C:420:PRO:HD3	2.04	0.54
1:D:104:LEU:HB3	1:D:148:PRO:O	2.08	0.54
1:D:426:LEU:HB2	1:D:574:LEU:HD21	1.89	0.54
1:D:429:VAL:HG12	1:D:430:TRP:HD1	1.72	0.54
1:D:490:ILE:HG23	1:D:490:ILE:O	2.06	0.54
1:E:120:GLY:C	1:E:122:ILE:N	2.65	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:33:ILE:HG22	1:F:34:HIS:C	2.32	0.54
1:F:566:GLN:HG2	1:F:593:LEU:HD11	1.90	0.54
1:F:641:LYS:HB3	1:F:645:ARG:NH2	2.15	0.54
1:G:28:TYR:HD2	1:G:45:GLN:HE21	1.54	0.54
1:G:119:GLU:HB2	1:G:121:PRO:CD	2.38	0.54
1:H:297:VAL:HB	1:H:301:GLN:H	1.73	0.54
1:A:68:LEU:HB3	1:A:135:TYR:HE2	1.72	0.54
1:A:433:ILE:HG21	1:A:571:TYR:OH	2.08	0.54
1:A:656:ASN:C	1:A:656:ASN:OD1	2.50	0.54
1:B:521:VAL:HG21	1:B:646:ARG:HD2	1.90	0.54
1:C:33:ILE:HG22	1:C:34:HIS:C	2.32	0.54
1:C:212:ALA:O	1:C:213:PHE:C	2.51	0.54
1:C:281:LEU:O	1:C:282:MET:HE3	2.07	0.54
1:C:419:ARG:HA	1:C:587:SER:HB3	1.90	0.54
1:C:429:VAL:O	1:C:433:ILE:HG12	2.08	0.54
1:D:117:LEU:O	1:D:119:GLU:HG2	2.07	0.54
1:D:430:TRP:CB	1:D:571:TYR:CD2	2.90	0.54
1:E:387:ILE:HD11	1:E:449:GLN:CB	2.37	0.54
1:G:327:VAL:CG1	1:G:367:LEU:HB2	2.31	0.54
1:H:62:ILE:HG23	1:H:94:LEU:HD13	1.89	0.54
1:H:458:LEU:CD1	1:H:544:SER:HB2	2.37	0.54
1:H:571:TYR:CE2	1:H:590:MET:CG	2.91	0.54
1:A:260:PRO:CG	1:A:274:GLU:HG2	2.38	0.54
1:C:148:PRO:HD3	1:C:188:TYR:CZ	2.42	0.54
1:D:570:LEU:HB3	1:D:590:MET:HE3	1.89	0.54
1:D:614:LYS:O	1:D:617:VAL:HB	2.07	0.54
1:G:71:PRO:O	1:G:72:ASN:CB	2.55	0.54
1:G:444:CYS:C	1:G:446:ARG:N	2.66	0.54
1:A:472:MET:HG3	1:A:472:MET:O	2.08	0.54
1:A:626:SER:OG	1:A:627:PRO:HD3	2.07	0.54
1:B:245:VAL:HG12	1:B:246:TYR:N	2.22	0.54
1:B:582:ARG:H	1:B:582:ARG:CD	2.20	0.54
1:C:71:PRO:O	1:C:72:ASN:CB	2.56	0.54
1:D:32:TRP:CD1	1:D:43:ILE:HD13	2.43	0.54
1:D:134:ARG:CA	1:D:300:PHE:HZ	2.17	0.54
1:D:144:ARG:HD2	1:D:171:LYS:CB	2.37	0.54
1:D:588:ASN:CG	1:D:589:ASP:N	2.62	0.54
1:F:115:CYS:HB2	1:F:435:GLN:HG3	1.89	0.54
1:F:183:VAL:HG12	1:F:184:GLY:N	2.23	0.54
1:F:263:ASN:ND2	1:F:265:LEU:N	2.56	0.54
1:F:447:LEU:HD12	1:F:605:VAL:HG22	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:588:ASN:CG	1:G:589:ASP:N	2.65	0.54
1:A:434:TRP:HZ3	1:A:568:ARG:CB	2.21	0.54
1:B:118:LYS:CG	1:B:265:LEU:HA	2.38	0.54
1:B:235:VAL:CB	1:B:243:ILE:HA	2.38	0.54
1:B:449:GLN:OE1	1:B:449:GLN:HA	2.07	0.54
1:B:614:LYS:O	1:B:617:VAL:HB	2.09	0.54
1:E:118:LYS:HD3	1:E:265:LEU:HD12	1.90	0.54
1:E:263:ASN:HD21	1:E:265:LEU:H	1.54	0.54
1:E:277:LEU:C	1:E:279:CYS:H	2.15	0.54
1:E:316:ASN:O	1:E:317:MET:CB	2.55	0.54
1:E:387:ILE:HG21	1:E:450:GLY:HA2	1.89	0.54
1:E:514:TRP:O	1:E:518:GLU:HG3	2.07	0.54
1:E:616:VAL:HG13	1:E:619:LYS:HD2	1.90	0.54
1:G:213:PHE:C	1:G:213:PHE:CD2	2.86	0.54
1:G:260:PRO:CG	1:G:274:GLU:HG2	2.38	0.54
1:G:263:ASN:HD21	1:G:265:LEU:N	2.06	0.54
1:G:430:TRP:CZ3	1:G:574:LEU:HD13	2.43	0.54
1:H:249:LEU:HA	1:H:253:VAL:O	2.07	0.54
1:B:357:SER:HB3	1:B:453:THR:HA	1.90	0.53
1:B:475:GLU:O	1:B:477:GLU:N	2.41	0.53
1:C:500:GLN:CB	1:C:505:ILE:HG12	2.38	0.53
1:D:190:ALA:HB2	1:D:206:TRP:CD1	2.43	0.53
1:E:157:PRO:HD2	1:E:161:ILE:HD11	1.90	0.53
1:E:319:SER:O	1:E:321:ARG:N	2.35	0.53
1:E:350:GLU:OE2	1:E:391:ASP:O	2.26	0.53
1:G:187:GLN:HB3	1:G:223:LEU:HD22	1.81	0.53
1:H:118:LYS:CG	1:H:265:LEU:HA	2.39	0.53
1:H:235:VAL:CB	1:H:243:ILE:HA	2.35	0.53
1:A:660:ILE:O	1:A:662:CYS:N	2.40	0.53
1:B:249:LEU:HA	1:B:253:VAL:O	2.08	0.53
1:C:646:ARG:HG3	1:C:647:GLN:CD	2.30	0.53
1:D:62:ILE:HG23	1:D:94:LEU:HD13	1.89	0.53
1:D:107:TYR:O	1:D:110:GLN:CB	2.57	0.53
1:D:500:GLN:CB	1:D:505:ILE:HG12	2.38	0.53
1:E:415:GLN:NE2	1:E:429:VAL:HG11	2.23	0.53
1:E:641:LYS:HB3	1:E:645:ARG:NH2	2.13	0.53
1:F:327:VAL:CG1	1:F:367:LEU:HB2	2.32	0.53
1:F:362:ASN:O	1:F:364:ALA:N	2.41	0.53
1:F:514:TRP:O	1:F:518:GLU:HG3	2.08	0.53
1:G:438:ARG:HG2	1:G:564:GLU:CG	2.38	0.53
1:G:449:GLN:NE2	1:G:453:THR:HG22	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:472:MET:HG3	1:G:472:MET:O	2.08	0.53
1:H:120:GLY:C	1:H:122:ILE:N	2.66	0.53
1:A:144:ARG:HD2	1:A:171:LYS:CB	2.38	0.53
1:A:582:ARG:H	1:A:582:ARG:CD	2.20	0.53
1:B:359:LEU:HA	1:B:460:ARG:NH1	2.23	0.53
1:B:480:LYS:HE3	1:B:527:GLU:HB2	1.89	0.53
1:B:649:LYS:HA	1:B:652:GLN:CB	2.39	0.53
1:C:62:ILE:HG23	1:C:94:LEU:HD13	1.89	0.53
1:C:145:ASP:CG	1:C:167:LEU:HD13	2.32	0.53
1:C:616:VAL:HG13	1:C:619:LYS:HD2	1.90	0.53
1:D:415:GLN:NE2	1:D:429:VAL:HG11	2.22	0.53
1:D:616:VAL:HG13	1:D:619:LYS:HD2	1.90	0.53
1:E:222:PHE:CD2	1:E:255:PHE:CD2	2.96	0.53
1:E:486:PHE:CZ	1:E:517:MET:HE2	2.42	0.53
1:E:582:ARG:H	1:E:582:ARG:CD	2.20	0.53
1:E:656:ASN:C	1:E:656:ASN:OD1	2.50	0.53
1:E:658:LEU:CD1	1:F:658:LEU:HD12	2.33	0.53
1:F:105:ARG:HH11	1:F:105:ARG:HG3	1.74	0.53
1:F:272:LYS:HG3	1:F:276:TRP:HB2	1.90	0.53
1:G:107:TYR:C	1:G:110:GLN:H	2.15	0.53
1:G:118:LYS:HB2	1:G:265:LEU:HD12	1.90	0.53
1:G:449:GLN:OE1	1:G:449:GLN:HA	2.07	0.53
1:A:89:ASN:HB3	1:A:91:LEU:HB2	1.91	0.53
1:A:107:TYR:O	1:A:110:GLN:CB	2.57	0.53
1:A:107:TYR:HA	1:A:110:GLN:HB2	1.90	0.53
1:A:119:GLU:HB2	1:A:121:PRO:HB2	1.90	0.53
1:A:245:VAL:HG12	1:A:246:TYR:N	2.22	0.53
1:A:490:ILE:O	1:A:490:ILE:HG23	2.08	0.53
1:B:120:GLY:C	1:B:122:ILE:N	2.64	0.53
1:B:220:ARG:CB	1:B:221:PRO:HD2	2.39	0.53
1:B:222:PHE:CD2	1:B:255:PHE:CD2	2.96	0.53
1:B:319:SER:C	1:B:321:ARG:N	2.66	0.53
1:B:422:THR:HB	1:B:585:GLY:C	2.34	0.53
1:C:104:LEU:HB3	1:C:148:PRO:O	2.09	0.53
1:D:68:LEU:HB3	1:D:135:TYR:HE2	1.73	0.53
1:D:644:VAL:O	1:D:644:VAL:HG12	2.08	0.53
1:E:118:LYS:NZ	1:E:123:ARG:HH12	2.06	0.53
1:E:145:ASP:CG	1:E:167:LEU:HD13	2.33	0.53
1:E:235:VAL:CB	1:E:243:ILE:HA	2.38	0.53
1:E:564:GLU:OE2	1:E:568:ARG:NH2	2.41	0.53
1:F:646:ARG:HG3	1:F:647:GLN:CD	2.32	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:120:GLY:C	1:G:122:ILE:N	2.66	0.53
1:G:145:ASP:CG	1:G:167:LEU:HD13	2.33	0.53
1:G:198:LYS:C	1:G:200:THR:N	2.66	0.53
1:H:319:SER:O	1:H:321:ARG:N	2.35	0.53
1:H:472:MET:SD	1:H:633:MET:CB	2.96	0.53
1:A:71:PRO:O	1:A:72:ASN:CB	2.57	0.53
1:A:89:ASN:HB3	1:A:91:LEU:H	1.72	0.53
1:A:654:LEU:HD23	1:A:654:LEU:C	2.33	0.53
1:B:494:LEU:CD1	1:B:514:TRP:CB	2.85	0.53
1:C:89:ASN:HB3	1:C:91:LEU:HB2	1.90	0.53
1:D:647:GLN:OE1	1:D:647:GLN:CA	2.57	0.53
1:E:265:LEU:HD23	1:E:269:LEU:CB	2.38	0.53
1:E:429:VAL:HG12	1:E:430:TRP:HD1	1.73	0.53
1:E:517:MET:HE3	1:E:647:GLN:OE1	2.07	0.53
1:F:32:TRP:CD1	1:F:43:ILE:HD13	2.43	0.53
1:F:157:PRO:HD2	1:F:161:ILE:HD11	1.89	0.53
1:F:226:TRP:CD1	1:F:227:GLN:HB3	2.44	0.53
1:F:260:PRO:CG	1:F:274:GLU:HG2	2.38	0.53
1:F:626:SER:OG	1:F:627:PRO:HD3	2.09	0.53
1:G:590:MET:HE1	1:G:593:LEU:HD12	1.90	0.53
1:H:118:LYS:HG2	1:H:265:LEU:HA	1.89	0.53
1:H:190:ALA:HB2	1:H:206:TRP:CG	2.44	0.53
1:A:265:LEU:HD21	1:A:269:LEU:HB3	1.90	0.53
1:A:297:VAL:HB	1:A:301:GLN:H	1.74	0.53
1:B:113:ASN:HA	1:B:116:GLY:O	2.09	0.53
1:B:226:TRP:CD1	1:B:227:GLN:HB3	2.44	0.53
1:B:263:ASN:HD21	1:B:265:LEU:H	1.56	0.53
1:D:115:CYS:HB2	1:D:435:GLN:HG3	1.90	0.53
1:D:125:LEU:HD21	1:D:215:CYS:SG	2.49	0.53
1:D:644:VAL:HA	1:D:647:GLN:NE2	2.18	0.53
1:E:362:ASN:O	1:E:364:ALA:N	2.42	0.53
1:E:511:LEU:HG	1:E:515:ARG:CZ	2.38	0.53
1:G:249:LEU:HD23	1:G:252:ALA:CA	2.27	0.53
1:G:387:ILE:HG22	1:G:388:PHE:H	1.72	0.53
1:G:564:GLU:OE2	1:G:568:ARG:NH2	2.41	0.53
1:H:32:TRP:CD1	1:H:43:ILE:HD13	2.43	0.53
1:H:107:TYR:C	1:H:110:GLN:H	2.15	0.53
1:A:157:PRO:HD2	1:A:161:ILE:HD11	1.90	0.53
1:B:213:PHE:C	1:B:213:PHE:CD2	2.86	0.53
1:B:229:VAL:CG1	1:C:229:VAL:HG13	2.32	0.53
1:C:308:SER:O	1:C:309:LEU:HB2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:402:SER:HA	1:C:609:TYR:CD1	2.43	0.53
1:C:466:SER:HB3	1:C:537:MET:HE1	1.90	0.53
1:D:28:TYR:HD2	1:D:45:GLN:HE21	1.54	0.53
1:D:308:SER:O	1:D:309:LEU:HB2	2.09	0.53
1:D:641:LYS:HB3	1:D:645:ARG:NH2	2.13	0.53
1:E:226:TRP:CD1	1:E:227:GLN:HB3	2.44	0.53
1:E:387:ILE:CD1	1:E:450:GLY:N	2.71	0.53
1:F:150:ASN:OD1	1:F:150:ASN:N	2.39	0.53
1:F:317:MET:CE	1:F:609:TYR:CZ	2.92	0.53
1:F:642:ILE:HG12	1:F:645:ARG:CZ	2.39	0.53
1:A:148:PRO:HD3	1:A:188:TYR:CZ	2.43	0.53
1:A:213:PHE:O	1:A:216:ILE:N	2.42	0.53
1:A:263:ASN:HD21	1:A:265:LEU:N	2.06	0.53
1:A:616:VAL:HG13	1:A:619:LYS:HD2	1.91	0.53
1:B:71:PRO:O	1:B:72:ASN:CB	2.57	0.53
1:B:145:ASP:CG	1:B:167:LEU:HD13	2.33	0.53
1:B:265:LEU:HD23	1:B:269:LEU:HB3	1.89	0.53
1:C:32:TRP:CD1	1:C:43:ILE:HD13	2.44	0.53
1:C:109:ASN:O	1:C:111:PHE:N	2.42	0.53
1:C:285:GLN:NE2	1:C:286:ARG:HH12	2.05	0.53
1:C:433:ILE:HG21	1:C:571:TYR:OH	2.08	0.53
1:C:449:GLN:O	1:C:450:GLY:C	2.51	0.53
1:D:189:LEU:CG	1:D:190:ALA:N	2.66	0.53
1:E:107:TYR:CE1	1:E:153:LEU:HD12	2.44	0.53
1:E:118:LYS:CB	1:E:264:HIS:O	2.57	0.53
1:E:249:LEU:HD23	1:E:252:ALA:CA	2.26	0.53
1:E:433:ILE:CG2	1:E:571:TYR:OH	2.56	0.53
1:E:493:ASP:HB3	1:E:514:TRP:CZ3	2.44	0.53
1:E:633:MET:SD	1:E:633:MET:N	2.82	0.53
1:E:653:GLU:HA	1:E:656:ASN:HB3	1.91	0.53
1:F:449:GLN:NE2	1:F:453:THR:HG22	2.24	0.53
1:F:614:LYS:O	1:F:617:VAL:HB	2.09	0.53
1:G:107:TYR:O	1:G:110:GLN:CB	2.56	0.53
1:G:116:GLY:N	1:G:217:THR:O	2.42	0.53
1:G:582:ARG:H	1:G:582:ARG:CD	2.18	0.53
1:H:107:TYR:O	1:H:110:GLN:CB	2.56	0.53
1:H:433:ILE:HB	1:H:571:TYR:OH	2.09	0.53
1:H:614:LYS:O	1:H:617:VAL:HB	2.09	0.53
1:A:362:ASN:O	1:A:364:ALA:N	2.42	0.53
1:B:32:TRP:CD1	1:B:43:ILE:HD13	2.44	0.53
1:C:522:GLU:C	1:C:523:LEU:HG	2.33	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:107:TYR:HA	1:D:110:GLN:HB2	1.90	0.53
1:D:394:LYS:HG3	1:D:613:SER:HB2	1.90	0.53
1:D:434:TRP:CZ3	1:D:568:ARG:HG3	2.44	0.53
1:E:104:LEU:HB3	1:E:148:PRO:O	2.09	0.53
1:E:116:GLY:CA	1:E:217:THR:O	2.57	0.53
1:E:319:SER:C	1:E:321:ARG:N	2.67	0.53
1:E:416:ASP:OD1	1:E:416:ASP:N	2.40	0.53
1:F:62:ILE:HG23	1:F:94:LEU:HD13	1.90	0.53
1:F:137:HIS:ND1	1:F:201:VAL:HG13	2.24	0.53
1:H:153:LEU:HD23	1:H:162:HIS:CB	2.39	0.53
1:H:373:ASP:C	1:H:374:CYS:SG	2.92	0.53
1:H:387:ILE:HG22	1:H:388:PHE:H	1.73	0.53
1:A:438:ARG:HG2	1:A:564:GLU:OE1	2.08	0.53
1:B:33:ILE:HG22	1:B:34:HIS:C	2.34	0.53
1:B:357:SER:CA	1:B:453:THR:HB	2.36	0.53
1:B:373:ASP:CG	1:B:374:CYS:SG	2.92	0.53
1:B:473:THR:CG2	1:B:533:LEU:HD22	2.31	0.53
1:C:449:GLN:HA	1:C:449:GLN:OE1	2.07	0.53
1:D:120:GLY:CA	1:D:123:ARG:H	2.22	0.53
1:D:260:PRO:CG	1:D:274:GLU:HG2	2.39	0.53
1:E:422:THR:HG21	1:E:586:ASP:C	2.34	0.53
1:E:430:TRP:HB3	1:E:571:TYR:CD2	2.39	0.53
1:F:119:GLU:HB2	1:F:121:PRO:HB2	1.91	0.53
1:F:146:LEU:HB3	1:F:207:SER:HB2	1.91	0.53
1:F:387:ILE:HD13	1:F:450:GLY:HA2	1.89	0.53
1:G:157:PRO:HD2	1:G:161:ILE:HD11	1.90	0.53
1:A:285:GLN:HE21	1:A:286:ARG:HH12	1.57	0.52
1:A:522:GLU:C	1:A:523:LEU:HG	2.33	0.52
1:B:654:LEU:C	1:B:654:LEU:HD23	2.34	0.52
1:D:148:PRO:HD3	1:D:188:TYR:CZ	2.44	0.52
1:D:212:ALA:O	1:D:213:PHE:C	2.52	0.52
1:D:536:LYS:HB3	1:D:625:LEU:HD22	1.90	0.52
1:E:123:ARG:HD2	1:E:374:CYS:SG	2.50	0.52
1:E:210:THR:O	1:E:211:LEU:C	2.52	0.52
1:E:220:ARG:NH1	1:E:223:LEU:CD2	2.71	0.52
1:E:245:VAL:HG12	1:E:246:TYR:N	2.20	0.52
1:E:581:GLN:O	1:E:582:ARG:C	2.53	0.52
1:E:642:ILE:HG12	1:E:645:ARG:NH1	2.24	0.52
1:F:72:ASN:H	1:F:163:LYS:HE2	1.73	0.52
1:F:449:GLN:OE1	1:F:449:GLN:HA	2.09	0.52
1:G:272:LYS:HG3	1:G:276:TRP:HB2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:641:LYS:HB3	1:A:645:ARG:NH2	2.12	0.52
1:B:109:ASN:O	1:B:111:PHE:N	2.42	0.52
1:C:485:PHE:CZ	1:D:485:PHE:CB	2.91	0.52
1:C:614:LYS:O	1:C:617:VAL:HB	2.10	0.52
1:D:26:PHE:CE2	1:D:179:CYS:HB3	2.41	0.52
1:D:210:THR:O	1:D:211:LEU:C	2.52	0.52
1:E:213:PHE:CD2	1:E:213:PHE:C	2.87	0.52
1:E:540:LEU:HD13	1:E:622:ALA:HB2	1.82	0.52
1:F:116:GLY:CA	1:F:217:THR:O	2.57	0.52
1:F:120:GLY:N	1:F:122:ILE:H	2.06	0.52
1:F:265:LEU:HD21	1:F:269:LEU:HB3	1.91	0.52
1:F:415:GLN:NE2	1:F:429:VAL:HG11	2.24	0.52
1:G:70:HIS:NE2	1:G:131:SER:O	2.43	0.52
1:G:213:PHE:O	1:G:216:ILE:N	2.42	0.52
1:H:313:SER:HA	1:H:324:THR:HA	1.90	0.52
1:A:308:SER:O	1:A:309:LEU:HB2	2.10	0.52
1:A:567:ALA:HA	1:A:590:MET:HE1	1.90	0.52
1:A:654:LEU:HD11	1:B:655:TRP:CE3	2.44	0.52
1:B:213:PHE:O	1:B:216:ILE:N	2.42	0.52
1:B:226:TRP:HD1	1:B:227:GLN:H	1.41	0.52
1:C:226:TRP:CD1	1:C:227:GLN:HB3	2.44	0.52
1:C:247:ASP:HB2	1:C:255:PHE:O	2.08	0.52
1:C:462:ASN:ND2	1:C:540:LEU:CB	2.71	0.52
1:C:581:GLN:O	1:C:582:ARG:C	2.52	0.52
1:D:89:ASN:HB3	1:D:91:LEU:H	1.74	0.52
1:D:449:GLN:O	1:D:450:GLY:C	2.53	0.52
1:D:633:MET:SD	1:D:633:MET:N	2.82	0.52
1:E:89:ASN:HB3	1:E:91:LEU:HB2	1.92	0.52
1:E:118:LYS:HG2	1:E:264:HIS:C	2.28	0.52
1:E:260:PRO:CD	1:E:274:GLU:HG2	2.39	0.52
1:F:145:ASP:CG	1:F:167:LEU:HD13	2.33	0.52
1:F:409:SER:HB2	1:F:412:ILE:CD1	2.39	0.52
1:G:533:LEU:HD23	1:G:629:VAL:HG13	1.91	0.52
1:H:33:ILE:HG22	1:H:34:HIS:C	2.34	0.52
1:B:153:LEU:HD23	1:B:162:HIS:CB	2.40	0.52
1:B:540:LEU:HD22	1:B:621:LYS:HZ1	1.74	0.52
1:B:642:ILE:HG12	1:B:645:ARG:CZ	2.40	0.52
1:C:165:ILE:HG12	1:C:166:ASP:H	1.74	0.52
1:C:213:PHE:O	1:C:216:ILE:N	2.41	0.52
1:C:480:LYS:NZ	1:C:525:GLY:C	2.67	0.52
1:D:89:ASN:HB3	1:D:91:LEU:HB2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:107:TYR:CE1	1:D:153:LEU:HD12	2.44	0.52
1:D:373:ASP:CG	1:D:374:CYS:SG	2.93	0.52
1:D:521:VAL:HG13	1:D:643:VAL:CG1	2.40	0.52
1:D:646:ARG:HG3	1:D:647:GLN:CD	2.33	0.52
1:E:145:ASP:OD2	1:E:167:LEU:HD13	2.09	0.52
1:E:469:LYS:HZ2	1:E:630:LYS:CE	2.23	0.52
1:E:529:GLU:HG3	1:E:633:MET:CE	2.39	0.52
1:F:308:SER:O	1:F:309:LEU:HB2	2.09	0.52
1:F:588:ASN:CG	1:F:589:ASP:N	2.66	0.52
1:F:647:GLN:OE1	1:F:647:GLN:CA	2.58	0.52
1:H:148:PRO:HD3	1:H:188:TYR:CZ	2.45	0.52
1:A:107:TYR:CE1	1:A:153:LEU:HD12	2.44	0.52
1:A:107:TYR:HD1	1:A:153:LEU:HD12	1.68	0.52
1:C:521:VAL:HA	1:C:524:CYS:HG	1.72	0.52
1:D:145:ASP:CG	1:D:167:LEU:HD13	2.34	0.52
1:D:660:ILE:O	1:D:662:CYS:N	2.42	0.52
1:E:120:GLY:CA	1:E:123:ARG:H	2.21	0.52
1:E:449:GLN:NE2	1:E:453:THR:HG22	2.25	0.52
1:F:180:THR:HG22	1:F:180:THR:O	2.10	0.52
1:F:222:PHE:CD2	1:F:224:PRO:O	2.63	0.52
1:F:426:LEU:HB3	1:F:430:TRP:CD1	2.45	0.52
1:F:486:PHE:HZ	1:F:517:MET:HE2	1.74	0.52
1:G:180:THR:O	1:G:180:THR:HG22	2.10	0.52
1:G:226:TRP:CD1	1:G:227:GLN:HB3	2.45	0.52
1:H:193:LEU:CB	1:H:196:GLN:HE22	2.22	0.52
1:H:434:TRP:HZ3	1:H:568:ARG:CB	2.22	0.52
1:A:32:TRP:CD1	1:A:43:ILE:HD13	2.44	0.52
1:A:221:PRO:O	1:A:222:PHE:HB3	2.09	0.52
1:A:387:ILE:HD11	1:A:449:GLN:CG	2.39	0.52
1:A:387:ILE:HG22	1:A:388:PHE:H	1.74	0.52
1:A:517:MET:CE	1:A:650:ARG:HG3	2.39	0.52
1:A:642:ILE:HG12	1:A:645:ARG:NH1	2.25	0.52
1:B:104:LEU:HB3	1:B:148:PRO:O	2.10	0.52
1:B:387:ILE:HG22	1:B:388:PHE:H	1.74	0.52
1:B:581:GLN:O	1:B:582:ARG:C	2.52	0.52
1:B:647:GLN:OE1	1:B:647:GLN:CA	2.57	0.52
1:C:409:SER:HB2	1:C:412:ILE:CD1	2.40	0.52
1:C:494:LEU:HD21	1:C:518:GLU:OE2	2.09	0.52
1:C:653:GLU:HA	1:C:656:ASN:HB3	1.90	0.52
1:D:109:ASN:O	1:D:111:PHE:N	2.43	0.52
1:D:213:PHE:C	1:D:213:PHE:CD2	2.88	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:438:ARG:HG2	1:F:564:GLU:CD	2.35	0.52
1:G:415:GLN:NE2	1:G:429:VAL:HG11	2.24	0.52
1:G:533:LEU:HD21	1:G:633:MET:HE3	1.91	0.52
1:H:71:PRO:O	1:H:72:ASN:CB	2.57	0.52
1:A:222:PHE:CD2	1:A:224:PRO:O	2.63	0.52
1:A:265:LEU:HD23	1:A:269:LEU:CB	2.40	0.52
1:B:133:LEU:O	1:B:134:ARG:C	2.53	0.52
1:B:145:ASP:OD2	1:B:167:LEU:HD13	2.09	0.52
1:C:107:TYR:CE1	1:C:153:LEU:HD12	2.44	0.52
1:C:272:LYS:HG2	1:C:273:LEU:CA	2.40	0.52
1:D:165:ILE:HG12	1:D:166:ASP:H	1.74	0.52
1:D:531:GLN:HA	1:D:534:VAL:HG12	1.91	0.52
1:E:220:ARG:CB	1:E:221:PRO:HD2	2.39	0.52
1:E:517:MET:HE1	1:E:647:GLN:OE1	2.09	0.52
1:F:117:LEU:O	1:F:119:GLU:HG2	2.10	0.52
1:F:153:LEU:HD23	1:F:162:HIS:CB	2.40	0.52
1:G:68:LEU:HB3	1:G:135:TYR:CE2	2.45	0.52
1:G:145:ASP:OD2	1:G:167:LEU:HD13	2.10	0.52
1:B:107:TYR:CE1	1:B:153:LEU:HD12	2.45	0.52
1:B:263:ASN:HD21	1:B:265:LEU:N	2.06	0.52
1:B:494:LEU:HD22	1:B:518:GLU:OE2	2.07	0.52
1:B:540:LEU:HD11	1:B:621:LYS:CB	2.39	0.52
1:C:245:VAL:HG12	1:C:246:TYR:N	2.20	0.52
1:C:319:SER:C	1:C:321:ARG:N	2.66	0.52
1:D:180:THR:O	1:D:180:THR:HG22	2.10	0.52
1:D:245:VAL:HG12	1:D:246:TYR:N	2.22	0.52
1:D:277:LEU:C	1:D:279:CYS:H	2.16	0.52
1:D:522:GLU:C	1:D:523:LEU:HG	2.35	0.52
1:H:373:ASP:CG	1:H:374:CYS:SG	2.93	0.52
1:H:394:LYS:CE	1:H:401:ILE:HA	2.40	0.52
1:H:409:SER:HB2	1:H:412:ILE:CD1	2.40	0.52
1:H:540:LEU:HD21	1:H:621:LYS:HB3	1.91	0.52
1:A:145:ASP:OD2	1:A:167:LEU:HD13	2.09	0.52
1:A:319:SER:C	1:A:321:ARG:N	2.65	0.52
1:A:373:ASP:OD1	1:A:374:CYS:N	2.43	0.52
1:A:437:ILE:HG13	1:A:594:LEU:CD1	2.39	0.52
1:C:118:LYS:NZ	1:C:123:ARG:HH12	2.08	0.52
1:E:165:ILE:HG12	1:E:166:ASP:H	1.75	0.52
1:E:249:LEU:HD23	1:E:253:VAL:H	1.75	0.52
1:E:322:VAL:HG21	1:E:446:ARG:NH1	2.24	0.52
1:F:444:CYS:O	1:F:446:ARG:N	2.41	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:571:TYR:CZ	1:F:590:MET:SD	3.03	0.52
1:G:32:TRP:CD1	1:G:43:ILE:HD13	2.45	0.52
1:G:437:ILE:HG22	1:G:564:GLU:HB2	1.92	0.52
1:H:145:ASP:OD2	1:H:167:LEU:HD13	2.10	0.52
1:A:429:VAL:O	1:A:433:ILE:HG12	2.10	0.52
1:B:415:GLN:NE2	1:B:429:VAL:HG11	2.25	0.52
1:C:514:TRP:O	1:C:518:GLU:HG3	2.10	0.52
1:C:531:GLN:HA	1:C:534:VAL:HG12	1.92	0.52
1:D:115:CYS:O	1:D:263:ASN:HA	2.09	0.52
1:D:221:PRO:O	1:D:222:PHE:HB3	2.09	0.52
1:E:534:VAL:HG13	1:E:535:ASP:N	2.25	0.52
1:F:120:GLY:CA	1:F:123:ARG:H	2.22	0.52
1:F:438:ARG:NH1	1:F:568:ARG:HH21	2.08	0.52
1:G:285:GLN:HE21	1:G:286:ARG:HH12	1.58	0.52
1:H:226:TRP:CD1	1:H:227:GLN:HB3	2.45	0.52
1:H:248:ASP:OD1	1:H:248:ASP:O	2.28	0.52
1:A:120:GLY:CA	1:A:123:ARG:H	2.23	0.51
1:A:165:ILE:HG12	1:A:166:ASP:H	1.75	0.51
1:A:527:GLU:HG2	1:A:530:VAL:HG13	1.92	0.51
1:A:642:ILE:HG12	1:A:645:ARG:CZ	2.40	0.51
1:A:653:GLU:HA	1:A:656:ASN:HB3	1.92	0.51
1:B:180:THR:O	1:B:180:THR:HG22	2.10	0.51
1:B:212:ALA:O	1:B:213:PHE:C	2.53	0.51
1:C:434:TRP:HZ3	1:C:568:ARG:CA	2.21	0.51
1:D:387:ILE:HG22	1:D:388:PHE:H	1.74	0.51
1:D:412:ILE:HG12	1:D:433:ILE:CD1	2.40	0.51
1:D:582:ARG:H	1:D:582:ARG:CD	2.19	0.51
1:E:115:CYS:SG	1:E:432:GLN:HA	2.50	0.51
1:F:117:LEU:O	1:F:122:ILE:HD11	2.09	0.51
1:F:245:VAL:HG12	1:F:246:TYR:N	2.22	0.51
1:F:426:LEU:HB2	1:F:574:LEU:HD21	1.90	0.51
1:G:62:ILE:HG23	1:G:94:LEU:HD13	1.92	0.51
1:G:433:ILE:CG2	1:G:571:TYR:OH	2.57	0.51
1:G:534:VAL:HG13	1:G:535:ASP:N	2.25	0.51
1:G:587:SER:OG	1:G:588:ASN:N	2.37	0.51
1:A:614:LYS:O	1:A:617:VAL:HB	2.10	0.51
1:B:588:ASN:CG	1:B:589:ASP:N	2.65	0.51
1:C:213:PHE:C	1:C:213:PHE:CD2	2.88	0.51
1:C:286:ARG:O	1:C:290:THR:HG21	2.10	0.51
1:C:373:ASP:OD1	1:C:374:CYS:N	2.42	0.51
1:C:580:ASP:HA	1:C:582:ARG:HH11	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:153:LEU:HD23	1:D:162:HIS:CB	2.40	0.51
1:E:71:PRO:O	1:E:72:ASN:CB	2.58	0.51
1:E:119:GLU:HB2	1:E:121:PRO:HB2	1.92	0.51
1:E:212:ALA:O	1:E:213:PHE:C	2.53	0.51
1:F:107:TYR:CE1	1:F:153:LEU:HD12	2.45	0.51
1:F:297:VAL:HB	1:F:301:GLN:H	1.75	0.51
1:F:654:LEU:HD23	1:F:654:LEU:C	2.35	0.51
1:G:153:LEU:HD23	1:G:162:HIS:CB	2.40	0.51
1:G:322:VAL:CG1	1:G:323:HIS:H	2.21	0.51
1:G:339:TRP:HA	1:G:342:GLN:CB	2.34	0.51
1:G:341:GLN:O	1:G:345:GLY:N	2.43	0.51
1:H:119:GLU:HB2	1:H:121:PRO:HB2	1.91	0.51
1:H:220:ARG:HB3	1:H:221:PRO:HD2	1.92	0.51
1:H:447:LEU:HD12	1:H:605:VAL:CG2	2.40	0.51
1:H:570:LEU:HD23	1:H:590:MET:HE2	1.93	0.51
1:A:409:SER:HB2	1:A:412:ILE:CD1	2.39	0.51
1:A:478:GLN:HG3	1:A:479:LEU:N	2.25	0.51
1:B:350:GLU:OE2	1:B:391:ASP:O	2.29	0.51
1:B:514:TRP:O	1:B:518:GLU:HG3	2.10	0.51
1:B:547:LEU:O	1:B:550:ASN:ND2	2.44	0.51
1:C:145:ASP:OD2	1:C:167:LEU:HD13	2.10	0.51
1:C:265:LEU:HD23	1:C:269:LEU:HB3	1.93	0.51
1:C:322:VAL:CG1	1:C:323:HIS:H	2.21	0.51
1:C:387:ILE:HG22	1:C:388:PHE:H	1.76	0.51
1:C:462:ASN:ND2	1:C:540:LEU:HB2	2.19	0.51
1:D:193:LEU:CB	1:D:196:GLN:HE22	2.23	0.51
1:D:224:PRO:HG3	1:D:428:ARG:HH22	1.75	0.51
1:D:235:VAL:CB	1:D:243:ILE:HA	2.37	0.51
1:D:402:SER:HA	1:D:609:TYR:CD1	2.45	0.51
1:D:642:ILE:HG12	1:D:645:ARG:CZ	2.40	0.51
1:E:272:LYS:HG2	1:E:273:LEU:CA	2.40	0.51
1:F:210:THR:O	1:F:211:LEU:C	2.53	0.51
1:F:570:LEU:HD23	1:F:590:MET:HE2	1.92	0.51
1:G:72:ASN:O	1:G:163:LYS:HA	2.11	0.51
1:G:134:ARG:CA	1:G:300:PHE:CZ	2.86	0.51
1:G:297:VAL:HB	1:G:301:GLN:H	1.75	0.51
1:A:113:ASN:HA	1:A:116:GLY:O	2.10	0.51
1:A:263:ASN:HD21	1:A:265:LEU:H	1.57	0.51
1:A:580:ASP:CB	1:D:579:ARG:NH2	2.71	0.51
1:B:89:ASN:HB3	1:B:91:LEU:HB2	1.92	0.51
1:B:285:GLN:HE21	1:B:286:ARG:HH12	1.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:285:GLN:HG2	1:B:285:GLN:O	2.11	0.51
1:B:327:VAL:CG1	1:B:367:LEU:HB2	2.34	0.51
1:B:442:GLU:HB3	1:B:446:ARG:HH21	1.75	0.51
1:B:444:CYS:C	1:B:446:ARG:N	2.63	0.51
1:B:646:ARG:HG3	1:B:647:GLN:CD	2.33	0.51
1:C:120:GLY:C	1:C:122:ILE:N	2.69	0.51
1:C:511:LEU:HG	1:C:515:ARG:CZ	2.40	0.51
1:D:263:ASN:HD21	1:D:265:LEU:N	2.07	0.51
1:D:297:VAL:HB	1:D:301:GLN:H	1.74	0.51
1:D:449:GLN:OE1	1:D:449:GLN:HA	2.09	0.51
1:E:357:SER:HB3	1:E:453:THR:HB	1.93	0.51
1:E:571:TYR:OH	1:E:590:MET:SD	2.69	0.51
1:E:642:ILE:HG12	1:E:645:ARG:CZ	2.40	0.51
1:F:119:GLU:HB3	1:F:121:PRO:CD	2.40	0.51
1:F:220:ARG:CB	1:F:221:PRO:HD2	2.41	0.51
1:F:281:LEU:O	1:F:282:MET:HE3	2.10	0.51
1:F:303:LEU:O	1:F:307:LEU:HB2	2.11	0.51
1:G:100:GLU:H	1:G:154:GLN:HG3	1.74	0.51
1:G:475:GLU:CG	1:G:636:MET:CE	2.57	0.51
1:H:191:PRO:HG3	1:H:234:LYS:HZ3	1.75	0.51
1:H:547:LEU:O	1:H:550:ASN:ND2	2.44	0.51
1:A:580:ASP:HA	1:A:582:ARG:HH11	1.75	0.51
1:B:386:LEU:H	1:B:386:LEU:CD1	2.22	0.51
1:B:550:ASN:HD21	1:B:611:GLN:HG3	1.74	0.51
1:B:642:ILE:HG12	1:B:645:ARG:NH1	2.25	0.51
1:C:134:ARG:HD2	1:C:300:PHE:CE1	2.45	0.51
1:C:249:LEU:HA	1:C:253:VAL:O	2.11	0.51
1:C:429:VAL:HG12	1:C:430:TRP:HD1	1.75	0.51
1:D:272:LYS:HG3	1:D:276:TRP:HB2	1.93	0.51
1:D:534:VAL:HG13	1:D:535:ASP:N	2.24	0.51
1:E:246:TYR:CD1	1:E:258:VAL:CB	2.72	0.51
1:E:249:LEU:HA	1:E:253:VAL:O	2.11	0.51
1:F:118:LYS:CD	1:F:265:LEU:HA	2.39	0.51
1:F:642:ILE:HG12	1:F:645:ARG:NH1	2.25	0.51
1:G:265:LEU:HD23	1:G:269:LEU:CB	2.40	0.51
1:G:581:GLN:O	1:G:582:ARG:C	2.53	0.51
1:H:534:VAL:HG13	1:H:535:ASP:N	2.26	0.51
1:B:107:TYR:O	1:B:110:GLN:HB2	2.11	0.51
1:C:547:LEU:HD22	1:C:611:GLN:HG2	1.93	0.51
1:D:191:PRO:HG3	1:D:234:LYS:HZ3	1.76	0.51
1:D:368:THR:O	1:D:368:THR:HG22	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:570:LEU:HD23	1:D:590:MET:CE	2.40	0.51
1:D:581:GLN:O	1:D:582:ARG:C	2.53	0.51
1:E:32:TRP:CD1	1:E:43:ILE:HD13	2.46	0.51
1:E:522:GLU:C	1:E:523:LEU:HG	2.35	0.51
1:F:107:TYR:O	1:F:110:GLN:HB2	2.11	0.51
1:F:145:ASP:OD2	1:F:167:LEU:HD13	2.11	0.51
1:G:120:GLY:CA	1:G:123:ARG:H	2.23	0.51
1:G:148:PRO:HD3	1:G:188:TYR:CZ	2.45	0.51
1:G:165:ILE:HG12	1:G:166:ASP:H	1.74	0.51
1:A:153:LEU:HD23	1:A:162:HIS:CB	2.40	0.51
1:A:350:GLU:OE2	1:A:391:ASP:O	2.28	0.51
1:A:357:SER:CA	1:A:453:THR:HB	2.41	0.51
1:A:415:GLN:NE2	1:A:429:VAL:HG11	2.26	0.51
1:A:449:GLN:NE2	1:A:453:THR:HG22	2.25	0.51
1:A:449:GLN:OE1	1:A:449:GLN:HA	2.10	0.51
1:A:531:GLN:O	1:A:535:ASP:HB3	2.11	0.51
1:D:247:ASP:HB2	1:D:255:PHE:O	2.11	0.51
1:D:426:LEU:HB3	1:D:430:TRP:CD1	2.46	0.51
1:D:500:GLN:C	1:D:505:ILE:HG12	2.36	0.51
1:F:521:VAL:HA	1:F:524:CYS:HG	1.72	0.51
1:F:564:GLU:OE2	1:F:568:ARG:NH2	2.44	0.51
1:G:245:VAL:HG12	1:G:246:TYR:N	2.22	0.51
1:G:429:VAL:O	1:G:433:ILE:HG12	2.10	0.51
1:G:434:TRP:HZ3	1:G:568:ARG:CB	2.24	0.51
1:A:119:GLU:HB2	1:A:121:PRO:CB	2.41	0.51
1:A:226:TRP:CD1	1:A:227:GLN:HB3	2.45	0.51
1:A:440:LEU:HD12	1:A:597:ALA:O	2.10	0.51
1:A:534:VAL:HG13	1:A:535:ASP:N	2.24	0.51
1:A:647:GLN:OE1	1:A:647:GLN:CA	2.58	0.51
1:B:148:PRO:HD3	1:B:188:TYR:CZ	2.45	0.51
1:B:286:ARG:O	1:B:290:THR:HG21	2.11	0.51
1:B:313:SER:HA	1:B:324:THR:HA	1.93	0.51
1:B:449:GLN:O	1:B:450:GLY:C	2.52	0.51
1:B:571:TYR:OH	1:B:590:MET:SD	2.64	0.51
1:C:503:PHE:C	1:C:505:ILE:H	2.17	0.51
1:C:511:LEU:HD21	1:C:515:ARG:NH2	2.26	0.51
1:D:341:GLN:O	1:D:345:GLY:N	2.44	0.51
1:D:373:ASP:C	1:D:374:CYS:SG	2.93	0.51
1:E:186:LEU:C	1:E:188:TYR:H	2.19	0.51
1:E:254:LYS:N	1:E:255:PHE:CE1	2.79	0.51
1:E:387:ILE:HG22	1:E:388:PHE:H	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:226:TRP:CG	1:F:227:GLN:N	2.59	0.51
1:F:322:VAL:CG1	1:F:323:HIS:H	2.20	0.51
1:F:534:VAL:HG13	1:F:535:ASP:N	2.25	0.51
1:G:100:GLU:N	1:G:154:GLN:HG3	2.26	0.51
1:G:222:PHE:CD2	1:G:224:PRO:O	2.63	0.51
1:H:570:LEU:CD2	1:H:590:MET:HE2	2.41	0.51
1:A:272:LYS:HG3	1:A:276:TRP:HB2	1.93	0.51
1:A:531:GLN:HA	1:A:534:VAL:HG12	1.92	0.51
1:A:581:GLN:O	1:A:582:ARG:C	2.54	0.51
1:B:479:LEU:HB3	1:B:640:GLU:CD	2.29	0.51
1:B:497:TYR:O	1:B:497:TYR:HD2	1.85	0.51
1:C:118:LYS:HG2	1:C:264:HIS:C	2.32	0.51
1:C:133:LEU:O	1:C:134:ARG:C	2.53	0.51
1:C:153:LEU:HD23	1:C:162:HIS:CB	2.40	0.51
1:D:249:LEU:HA	1:D:253:VAL:O	2.11	0.51
1:D:444:CYS:O	1:D:446:ARG:N	2.44	0.51
1:D:479:LEU:HD12	1:D:640:GLU:CB	2.40	0.51
1:D:588:ASN:OD1	1:D:589:ASP:N	2.44	0.51
1:D:642:ILE:HG12	1:D:645:ARG:NH1	2.25	0.51
1:E:409:SER:HB2	1:E:412:ILE:CD1	2.38	0.51
1:E:580:ASP:HA	1:E:582:ARG:HH11	1.76	0.51
1:E:647:GLN:OE1	1:E:647:GLN:CA	2.58	0.51
1:F:71:PRO:O	1:F:72:ASN:CB	2.58	0.51
1:F:429:VAL:O	1:F:433:ILE:HG12	2.10	0.51
1:F:522:GLU:C	1:F:523:LEU:HG	2.35	0.51
1:F:529:GLU:O	1:F:533:LEU:HG	2.10	0.51
1:G:119:GLU:HB2	1:G:121:PRO:HB2	1.93	0.51
1:G:387:ILE:CD1	1:G:450:GLY:CA	2.87	0.51
1:G:426:LEU:HB3	1:G:430:TRP:CD1	2.45	0.51
1:G:633:MET:SD	1:G:633:MET:N	2.84	0.51
1:H:165:ILE:HG12	1:H:166:ASP:H	1.76	0.51
1:H:440:LEU:HD12	1:H:597:ALA:O	2.11	0.51
1:H:547:LEU:HD13	1:H:615:THR:HG22	1.93	0.51
1:H:581:GLN:O	1:H:582:ARG:C	2.53	0.51
1:A:109:ASN:O	1:A:111:PHE:N	2.44	0.51
1:A:220:ARG:NH1	1:A:223:LEU:CD2	2.71	0.51
1:A:313:SER:HA	1:A:324:THR:HA	1.92	0.51
1:B:269:LEU:C	1:B:271:GLY:N	2.68	0.51
1:B:531:GLN:O	1:B:535:ASP:HB3	2.11	0.51
1:C:107:TYR:O	1:C:110:GLN:HB2	2.10	0.51
1:C:116:GLY:CA	1:C:217:THR:O	2.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:449:GLN:NE2	1:C:453:THR:HG22	2.26	0.51
1:C:534:VAL:HG13	1:C:535:ASP:N	2.25	0.51
1:D:189:LEU:HD12	1:D:207:SER:HB3	1.93	0.51
1:D:265:LEU:HD23	1:D:269:LEU:CB	2.41	0.51
1:E:107:TYR:O	1:E:110:GLN:HB2	2.10	0.51
1:E:646:ARG:HG3	1:E:647:GLN:CD	2.31	0.51
1:E:649:LYS:HA	1:E:652:GLN:HB2	1.92	0.51
1:F:226:TRP:HD1	1:F:227:GLN:N	2.04	0.51
1:F:368:THR:O	1:F:368:THR:HG22	2.11	0.51
1:F:581:GLN:O	1:F:582:ARG:C	2.53	0.51
1:G:89:ASN:HB3	1:G:91:LEU:HB2	1.92	0.51
1:G:409:SER:HB2	1:G:412:ILE:CD1	2.38	0.51
1:H:250:THR:C	1:H:251:GLY:O	2.54	0.51
1:A:18:LYS:NZ	1:A:33:ILE:HD12	2.27	0.50
1:A:588:ASN:OD1	1:A:589:ASP:N	2.43	0.50
1:B:409:SER:HB2	1:B:412:ILE:CD1	2.40	0.50
1:B:449:GLN:NE2	1:B:453:THR:HG22	2.26	0.50
1:C:303:LEU:O	1:C:307:LEU:HB2	2.11	0.50
1:C:437:ILE:HG22	1:C:564:GLU:HB2	1.92	0.50
1:C:666:ARG:HD2	1:D:503:PHE:HD1	1.75	0.50
1:D:226:TRP:CD1	1:D:227:GLN:HB3	2.45	0.50
1:F:350:GLU:OE2	1:F:391:ASP:O	2.29	0.50
1:G:121:PRO:HA	1:G:124:THR:OG1	2.11	0.50
1:H:89:ASN:HB3	1:H:91:LEU:HB2	1.93	0.50
1:H:308:SER:O	1:H:309:LEU:HB2	2.12	0.50
1:H:567:ALA:HA	1:H:590:MET:HE1	1.92	0.50
1:A:118:LYS:HD3	1:A:265:LEU:HD12	1.94	0.50
1:B:221:PRO:O	1:B:222:PHE:HB3	2.11	0.50
1:B:651:GLN:O	1:B:652:GLN:C	2.55	0.50
1:D:116:GLY:HA2	1:D:217:THR:O	2.12	0.50
1:D:117:LEU:O	1:D:122:ILE:HD11	2.11	0.50
1:D:285:GLN:HE21	1:D:286:ARG:HH12	1.57	0.50
1:D:476:CYS:CA	1:D:636:MET:SD	2.98	0.50
1:E:118:LYS:CD	1:E:265:LEU:HA	2.42	0.50
1:E:153:LEU:HD23	1:E:162:HIS:CB	2.40	0.50
1:E:213:PHE:O	1:E:216:ILE:N	2.43	0.50
1:E:480:LYS:NZ	1:E:527:GLU:HB2	2.27	0.50
1:F:60:LEU:HD21	1:F:175:GLN:HB3	1.91	0.50
1:F:361:LEU:HD11	1:F:386:LEU:HD23	1.94	0.50
1:G:26:PHE:HE2	1:G:181:GLU:CD	2.19	0.50
1:G:107:TYR:CE1	1:G:153:LEU:HD12	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:270:ALA:HB1	1:G:274:GLU:OE2	2.12	0.50
1:G:580:ASP:HA	1:G:582:ARG:HH11	1.75	0.50
1:H:260:PRO:CD	1:H:274:GLU:HG2	2.41	0.50
1:H:633:MET:SD	1:H:633:MET:N	2.84	0.50
1:A:547:LEU:O	1:A:550:ASN:ND2	2.45	0.50
1:A:655:TRP:CE3	1:B:654:LEU:HD12	2.35	0.50
1:B:110:GLN:O	1:B:111:PHE:CB	2.37	0.50
1:B:193:LEU:CB	1:B:196:GLN:HE22	2.23	0.50
1:B:441:LYS:HB2	1:B:560:LEU:HD21	1.93	0.50
1:B:522:GLU:C	1:B:523:LEU:HG	2.36	0.50
1:C:180:THR:HG22	1:C:180:THR:O	2.11	0.50
1:C:281:LEU:C	1:C:282:MET:HG2	2.36	0.50
1:D:317:MET:HE3	1:D:609:TYR:CZ	2.46	0.50
1:D:547:LEU:HD12	1:D:615:THR:HG22	1.93	0.50
1:E:180:THR:O	1:E:180:THR:HG22	2.12	0.50
1:E:494:LEU:CD2	1:E:518:GLU:OE2	2.59	0.50
1:G:193:LEU:HD22	1:G:231:TRP:CD1	2.47	0.50
1:G:212:ALA:O	1:G:213:PHE:C	2.54	0.50
1:G:263:ASN:HD21	1:G:265:LEU:H	1.57	0.50
1:G:531:GLN:O	1:G:535:ASP:HB3	2.12	0.50
1:H:213:PHE:O	1:H:216:ILE:N	2.45	0.50
1:H:303:LEU:O	1:H:307:LEU:HB2	2.10	0.50
1:H:394:LYS:HE2	1:H:401:ILE:CA	2.40	0.50
1:A:220:ARG:HB3	1:A:221:PRO:HD2	1.92	0.50
1:B:159:ARG:HD3	1:B:375:THR:HG21	1.93	0.50
1:B:272:LYS:HG3	1:B:276:TRP:HB2	1.93	0.50
1:B:419:ARG:HA	1:B:587:SER:OG	2.11	0.50
1:C:113:ASN:HA	1:C:116:GLY:O	2.12	0.50
1:C:119:GLU:HB2	1:C:121:PRO:HB2	1.93	0.50
1:C:285:GLN:O	1:C:285:GLN:HG2	2.12	0.50
1:C:368:THR:O	1:C:368:THR:HG22	2.10	0.50
1:C:473:THR:CG2	1:C:533:LEU:CD2	2.80	0.50
1:C:529:GLU:O	1:C:533:LEU:HG	2.11	0.50
1:C:564:GLU:OE2	1:C:568:ARG:NH2	2.43	0.50
1:D:119:GLU:HB2	1:D:121:PRO:HB2	1.94	0.50
1:D:134:ARG:HB2	1:D:300:PHE:CE1	2.46	0.50
1:D:444:CYS:C	1:D:446:ARG:N	2.66	0.50
1:D:529:GLU:HG3	1:D:633:MET:HE1	1.92	0.50
1:D:529:GLU:O	1:D:533:LEU:HG	2.12	0.50
1:F:221:PRO:O	1:F:222:PHE:HB3	2.11	0.50
1:F:235:VAL:CB	1:F:243:ILE:HA	2.38	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:497:TYR:O	1:F:497:TYR:HD2	1.91	0.50
1:G:26:PHE:HE2	1:G:181:GLU:OE1	1.95	0.50
1:G:529:GLU:O	1:G:533:LEU:HG	2.11	0.50
1:G:614:LYS:O	1:G:617:VAL:HB	2.11	0.50
1:H:133:LEU:O	1:H:134:ARG:C	2.54	0.50
1:H:226:TRP:HB3	1:H:229:VAL:CG2	2.42	0.50
1:H:359:LEU:HA	1:H:460:ARG:NH1	2.25	0.50
1:H:402:SER:HB3	1:H:609:TYR:HB2	1.94	0.50
1:H:434:TRP:CZ3	1:H:568:ARG:CG	2.82	0.50
1:H:609:TYR:O	1:H:612:LEU:HB3	2.12	0.50
1:A:447:LEU:HD13	1:A:609:TYR:HE1	1.75	0.50
1:A:449:GLN:O	1:A:450:GLY:C	2.54	0.50
1:B:500:GLN:CA	1:B:505:ILE:HG12	2.41	0.50
1:B:511:LEU:HG	1:B:515:ARG:CZ	2.42	0.50
1:B:547:LEU:HD11	1:B:614:LYS:HB3	1.81	0.50
1:C:260:PRO:CD	1:C:274:GLU:HG2	2.41	0.50
1:C:412:ILE:HG12	1:C:433:ILE:CD1	2.42	0.50
1:E:449:GLN:O	1:E:450:GLY:C	2.55	0.50
1:F:89:ASN:HB3	1:F:91:LEU:HB2	1.91	0.50
1:F:113:ASN:HA	1:F:116:GLY:O	2.12	0.50
1:F:412:ILE:HG12	1:F:433:ILE:CD1	2.41	0.50
1:F:437:ILE:CG1	1:F:594:LEU:HD12	2.41	0.50
1:G:616:VAL:HG13	1:G:619:LYS:HD2	1.93	0.50
1:H:107:TYR:CE1	1:H:153:LEU:HD12	2.45	0.50
1:H:254:LYS:N	1:H:255:PHE:CE1	2.80	0.50
1:H:415:GLN:NE2	1:H:429:VAL:HG11	2.26	0.50
1:A:118:LYS:NZ	1:A:123:ARG:HH12	2.10	0.50
1:A:186:LEU:C	1:A:188:TYR:H	2.19	0.50
1:A:479:LEU:HD11	1:A:641:LYS:HG3	1.92	0.50
1:A:514:TRP:O	1:A:518:GLU:HG3	2.11	0.50
1:C:485:PHE:CD1	1:D:485:PHE:CD1	3.00	0.50
1:D:107:TYR:O	1:D:110:GLN:HB2	2.12	0.50
1:D:222:PHE:CE2	1:D:224:PRO:O	2.64	0.50
1:E:285:GLN:HG2	1:E:285:GLN:O	2.12	0.50
1:F:109:ASN:O	1:F:111:PHE:N	2.45	0.50
1:F:660:ILE:O	1:F:662:CYS:N	2.45	0.50
1:G:308:SER:O	1:G:309:LEU:HB2	2.12	0.50
1:G:313:SER:HA	1:G:324:THR:HA	1.92	0.50
1:G:373:ASP:CG	1:G:374:CYS:SG	2.94	0.50
1:H:109:ASN:O	1:H:111:PHE:N	2.45	0.50
1:H:180:THR:HG22	1:H:180:THR:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:189:LEU:HD12	1:H:207:SER:HB3	1.94	0.50
1:B:487:ARG:HH21	1:B:522:GLU:HA	1.77	0.50
1:C:120:GLY:CA	1:C:123:ARG:H	2.24	0.50
1:C:265:LEU:HD23	1:C:269:LEU:CB	2.42	0.50
1:C:272:LYS:O	1:C:273:LEU:C	2.55	0.50
1:C:327:VAL:CG1	1:C:367:LEU:HB2	2.36	0.50
1:D:437:ILE:HG13	1:D:594:LEU:CD1	2.41	0.50
1:D:441:LYS:CB	1:D:560:LEU:HD21	2.42	0.50
1:D:564:GLU:OE2	1:D:568:ARG:NH2	2.44	0.50
1:E:134:ARG:HD2	1:E:300:PHE:CE1	2.46	0.50
1:F:26:PHE:CE2	1:F:179:CYS:HB3	2.47	0.50
1:F:72:ASN:O	1:F:163:LYS:HA	2.12	0.50
1:F:339:TRP:HA	1:F:342:GLN:CB	2.35	0.50
1:F:534:VAL:CG1	1:F:535:ASP:N	2.75	0.50
1:G:186:LEU:HD23	1:G:227:GLN:HG2	1.94	0.50
1:G:191:PRO:HG3	1:G:234:LYS:HZ3	1.75	0.50
1:A:133:LEU:O	1:A:134:ARG:C	2.54	0.50
1:A:212:ALA:O	1:A:213:PHE:C	2.55	0.50
1:A:286:ARG:O	1:A:290:THR:HG21	2.12	0.50
1:A:387:ILE:HD12	1:A:450:GLY:HA2	1.94	0.50
1:A:646:ARG:HG3	1:A:647:GLN:CD	2.32	0.50
1:B:247:ASP:HB2	1:B:255:PHE:O	2.11	0.50
1:B:265:LEU:HD23	1:B:269:LEU:CB	2.42	0.50
1:B:389:LEU:HD12	1:B:389:LEU:N	2.26	0.50
1:C:18:LYS:NZ	1:C:33:ILE:HD12	2.26	0.50
1:C:418:LYS:O	1:C:419:ARG:CB	2.60	0.50
1:C:459:LEU:CD1	1:C:548:GLN:HB3	2.41	0.50
1:C:547:LEU:O	1:C:550:ASN:ND2	2.44	0.50
1:C:649:LYS:HA	1:C:652:GLN:CB	2.41	0.50
1:D:429:VAL:O	1:D:433:ILE:HG12	2.11	0.50
1:D:479:LEU:C	1:D:640:GLU:OE2	2.55	0.50
1:D:493:ASP:HB3	1:D:514:TRP:CH2	2.47	0.50
1:E:272:LYS:HG3	1:E:276:TRP:HB2	1.94	0.50
1:F:216:ILE:HG21	1:F:273:LEU:HD12	1.94	0.50
1:F:531:GLN:HA	1:F:534:VAL:HG12	1.92	0.50
1:G:133:LEU:O	1:G:134:ARG:C	2.54	0.50
1:G:220:ARG:HB3	1:G:221:PRO:HD2	1.93	0.50
1:G:361:LEU:HD11	1:G:386:LEU:HD23	1.94	0.50
1:A:341:GLN:O	1:A:345:GLY:N	2.45	0.50
1:B:26:PHE:HZ	1:B:179:CYS:HB3	1.73	0.50
1:B:260:PRO:CD	1:B:274:GLU:HG2	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:361:LEU:HD11	1:C:386:LEU:HD23	1.94	0.50
1:D:71:PRO:O	1:D:72:ASN:CB	2.59	0.50
1:D:213:PHE:O	1:D:214:GLU:C	2.54	0.50
1:D:313:SER:HA	1:D:324:THR:HA	1.94	0.50
1:D:594:LEU:O	1:D:598:ILE:HG13	2.12	0.50
1:E:120:GLY:N	1:E:122:ILE:H	2.06	0.50
1:E:308:SER:O	1:E:309:LEU:HB2	2.10	0.50
1:E:426:LEU:HB3	1:E:430:TRP:CD1	2.47	0.50
1:E:534:VAL:CG1	1:E:535:ASP:N	2.75	0.50
1:G:300:PHE:O	1:G:301:GLN:C	2.55	0.50
1:G:368:THR:O	1:G:368:THR:HG22	2.11	0.50
1:G:547:LEU:O	1:G:550:ASN:ND2	2.44	0.50
1:H:272:LYS:HG3	1:H:276:TRP:HB2	1.93	0.50
1:H:390:PHE:HZ	1:H:612:LEU:HD11	1.77	0.50
1:A:269:LEU:HD22	1:A:272:LYS:HE3	1.94	0.49
1:A:534:VAL:CG1	1:A:535:ASP:N	2.74	0.49
1:B:484:ASP:C	1:B:486:PHE:H	2.20	0.49
1:C:115:CYS:O	1:C:263:ASN:HA	2.12	0.49
1:C:115:CYS:CB	1:C:435:GLN:HG3	2.42	0.49
1:C:313:SER:HA	1:C:324:THR:HA	1.92	0.49
1:C:573:ARG:HH12	1:D:573:ARG:CZ	2.15	0.49
1:D:113:ASN:HA	1:D:116:GLY:O	2.12	0.49
1:D:186:LEU:C	1:D:188:TYR:H	2.19	0.49
1:D:226:TRP:HB3	1:D:229:VAL:CG2	2.41	0.49
1:E:303:LEU:O	1:E:307:LEU:HB2	2.12	0.49
1:F:226:TRP:HB3	1:F:229:VAL:CG2	2.41	0.49
1:F:249:LEU:HD23	1:F:253:VAL:H	1.76	0.49
1:F:265:LEU:HD23	1:F:269:LEU:CB	2.42	0.49
1:F:341:GLN:O	1:F:345:GLY:N	2.45	0.49
1:F:449:GLN:O	1:F:450:GLY:C	2.54	0.49
1:F:642:ILE:C	1:F:644:VAL:H	2.20	0.49
1:G:286:ARG:O	1:G:290:THR:HG21	2.12	0.49
1:G:443:ASP:O	1:G:446:ARG:CB	2.59	0.49
1:G:534:VAL:CG1	1:G:535:ASP:N	2.75	0.49
1:H:272:LYS:HG2	1:H:273:LEU:CA	2.42	0.49
1:A:107:TYR:O	1:A:110:GLN:HB2	2.12	0.49
1:A:361:LEU:HD11	1:A:386:LEU:HD23	1.94	0.49
1:B:116:GLY:N	1:B:217:THR:O	2.45	0.49
1:B:165:ILE:HG12	1:B:166:ASP:H	1.78	0.49
1:B:300:PHE:O	1:B:301:GLN:C	2.55	0.49
1:B:303:LEU:O	1:B:307:LEU:HB2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:433:ILE:HG21	1:B:590:MET:O	2.11	0.49
1:B:534:VAL:HG13	1:B:535:ASP:N	2.25	0.49
1:B:570:LEU:CB	1:B:590:MET:HE2	2.41	0.49
1:C:115:CYS:SG	1:C:432:GLN:HA	2.52	0.49
1:C:117:LEU:O	1:C:122:ILE:HD11	2.12	0.49
1:C:119:GLU:HB3	1:C:121:PRO:CD	2.37	0.49
1:C:434:TRP:HZ3	1:C:568:ARG:CG	2.24	0.49
1:C:517:MET:SD	1:C:650:ARG:HG3	2.52	0.49
1:D:262:PRO:HB3	1:D:409:SER:CB	2.41	0.49
1:D:303:LEU:O	1:D:307:LEU:HB2	2.12	0.49
1:D:390:PHE:CZ	1:D:612:LEU:HD11	2.46	0.49
1:D:534:VAL:CG1	1:D:535:ASP:N	2.74	0.49
1:E:109:ASN:O	1:E:111:PHE:N	2.45	0.49
1:E:187:GLN:HB3	1:E:223:LEU:HD22	1.86	0.49
1:E:423:TYR:O	1:E:425:HIS:N	2.45	0.49
1:F:116:GLY:N	1:F:217:THR:O	2.44	0.49
1:F:394:LYS:CG	1:F:613:SER:HB2	2.42	0.49
1:F:402:SER:HA	1:F:609:TYR:CD1	2.47	0.49
1:G:190:ALA:HB2	1:G:206:TRP:CG	2.47	0.49
1:H:190:ALA:HB2	1:H:206:TRP:CD1	2.46	0.49
1:H:588:ASN:OD1	1:H:589:ASP:N	2.44	0.49
1:B:115:CYS:SG	1:B:432:GLN:HA	2.51	0.49
1:B:226:TRP:HB3	1:B:229:VAL:CG2	2.42	0.49
1:B:531:GLN:HA	1:B:534:VAL:HG12	1.93	0.49
1:B:588:ASN:OD1	1:B:589:ASP:N	2.44	0.49
1:C:583:THR:HB	1:C:584:PRO:CD	2.42	0.49
1:C:654:LEU:CD2	1:D:654:LEU:HD22	2.36	0.49
1:D:580:ASP:HA	1:D:582:ARG:HH11	1.76	0.49
1:E:118:LYS:CB	1:E:264:HIS:C	2.85	0.49
1:E:153:LEU:HD22	1:E:162:HIS:HD1	1.78	0.49
1:E:527:GLU:C	1:E:529:GLU:N	2.69	0.49
1:F:248:ASP:OD1	1:F:248:ASP:O	2.30	0.49
1:F:531:GLN:O	1:F:535:ASP:HB3	2.12	0.49
1:F:580:ASP:HA	1:F:582:ARG:HH11	1.76	0.49
1:G:107:TYR:O	1:G:110:GLN:HB2	2.12	0.49
1:G:109:ASN:O	1:G:111:PHE:N	2.45	0.49
1:G:125:LEU:CA	1:G:162:HIS:NE2	2.70	0.49
1:G:443:ASP:O	1:G:446:ARG:N	2.45	0.49
1:G:588:ASN:OD1	1:G:589:ASP:N	2.45	0.49
1:H:113:ASN:HA	1:H:116:GLY:O	2.12	0.49
1:A:368:THR:O	1:A:368:THR:HG22	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:426:LEU:HB3	1:A:430:TRP:CD1	2.47	0.49
1:A:441:LYS:HD2	1:A:561:ASP:OD1	2.13	0.49
1:A:573:ARG:HH22	1:B:572:ARG:HD3	1.77	0.49
1:B:130:SER:O	1:B:300:PHE:CE1	2.66	0.49
1:B:373:ASP:OD1	1:B:374:CYS:N	2.45	0.49
1:C:272:LYS:HG3	1:C:276:TRP:HB2	1.93	0.49
1:D:119:GLU:HB2	1:D:121:PRO:CB	2.43	0.49
1:D:285:GLN:O	1:D:285:GLN:HG2	2.12	0.49
1:D:394:LYS:CG	1:D:613:SER:HB2	2.42	0.49
1:E:118:LYS:HD3	1:E:265:LEU:HA	1.94	0.49
1:E:419:ARG:NH1	1:E:588:ASN:HA	2.27	0.49
1:E:531:GLN:HA	1:E:534:VAL:HG12	1.93	0.49
1:E:547:LEU:O	1:E:550:ASN:ND2	2.45	0.49
1:F:313:SER:HA	1:F:324:THR:HA	1.93	0.49
1:F:478:GLN:HG3	1:F:479:LEU:N	2.26	0.49
1:H:120:GLY:N	1:H:122:ILE:H	2.08	0.49
1:H:120:GLY:CA	1:H:123:ARG:H	2.25	0.49
1:H:583:THR:O	1:H:584:PRO:C	2.56	0.49
1:A:226:TRP:HB3	1:A:229:VAL:CG2	2.42	0.49
1:A:493:ASP:HB3	1:A:514:TRP:HH2	1.74	0.49
1:C:254:LYS:N	1:C:255:PHE:CE1	2.80	0.49
1:C:387:ILE:HD11	1:C:449:GLN:CG	2.42	0.49
1:C:426:LEU:HB3	1:C:430:TRP:CD1	2.47	0.49
1:D:72:ASN:O	1:D:163:LYS:HA	2.12	0.49
1:D:145:ASP:OD2	1:D:167:LEU:HD13	2.12	0.49
1:D:531:GLN:O	1:D:535:ASP:HB3	2.12	0.49
1:F:260:PRO:CD	1:F:274:GLU:HG2	2.43	0.49
1:G:116:GLY:CA	1:G:216:ILE:O	2.60	0.49
1:G:285:GLN:HG2	1:G:285:GLN:O	2.12	0.49
1:G:303:LEU:O	1:G:307:LEU:HB2	2.13	0.49
1:H:118:LYS:NZ	1:H:123:ARG:HH12	2.10	0.49
1:H:263:ASN:HD21	1:H:265:LEU:H	1.60	0.49
1:H:434:TRP:HE3	1:H:568:ARG:CA	2.08	0.49
1:H:531:GLN:HA	1:H:534:VAL:HG12	1.94	0.49
1:A:180:THR:O	1:A:180:THR:HG22	2.13	0.49
1:A:193:LEU:CB	1:A:196:GLN:HE22	2.24	0.49
1:A:270:ALA:HB1	1:A:274:GLU:OE2	2.13	0.49
1:A:303:LEU:O	1:A:307:LEU:HB2	2.12	0.49
1:A:564:GLU:OE2	1:A:568:ARG:NH2	2.45	0.49
1:A:633:MET:SD	1:A:633:MET:N	2.85	0.49
1:C:118:LYS:CB	1:C:264:HIS:O	2.59	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:220:ARG:CB	1:C:221:PRO:HD2	2.42	0.49
1:C:642:ILE:HG12	1:C:645:ARG:CZ	2.42	0.49
1:D:478:GLN:HG3	1:D:479:LEU:N	2.28	0.49
1:E:119:GLU:HB3	1:E:121:PRO:CD	2.42	0.49
1:E:216:ILE:HG21	1:E:273:LEU:CD1	2.43	0.49
1:E:281:LEU:C	1:E:282:MET:HG2	2.38	0.49
1:E:494:LEU:HD12	1:E:514:TRP:CE3	2.37	0.49
1:E:511:LEU:HD21	1:E:515:ARG:NH2	2.27	0.49
1:F:484:ASP:O	1:F:485:PHE:C	2.55	0.49
1:G:120:GLY:N	1:G:122:ILE:H	2.08	0.49
1:G:235:VAL:CB	1:G:243:ILE:HA	2.39	0.49
1:G:269:LEU:HD22	1:G:272:LYS:HE3	1.94	0.49
1:G:272:LYS:O	1:G:273:LEU:C	2.55	0.49
1:H:119:GLU:HB2	1:H:121:PRO:CB	2.43	0.49
1:H:412:ILE:HG12	1:H:433:ILE:CD1	2.42	0.49
1:A:246:TYR:HB2	1:A:256:SER:HB3	1.94	0.49
1:A:285:GLN:O	1:A:285:GLN:HG2	2.12	0.49
1:A:422:THR:CB	1:A:585:GLY:C	2.84	0.49
1:A:583:THR:HB	1:A:584:PRO:CD	2.43	0.49
1:B:72:ASN:O	1:B:164:ILE:HG22	2.13	0.49
1:B:189:LEU:HD12	1:B:207:SER:HB3	1.94	0.49
1:B:339:TRP:HA	1:B:342:GLN:CB	2.36	0.49
1:C:119:GLU:HB2	1:C:121:PRO:CB	2.43	0.49
1:C:342:GLN:NE2	1:E:284:HIS:NE2	2.59	0.49
1:C:478:GLN:HG3	1:C:479:LEU:N	2.27	0.49
1:C:484:ASP:C	1:C:486:PHE:H	2.20	0.49
1:C:655:TRP:CZ2	1:D:497:TYR:HB2	2.48	0.49
1:C:665:VAL:HG21	1:D:665:VAL:HG22	1.95	0.49
1:D:263:ASN:HD21	1:D:265:LEU:H	1.58	0.49
1:D:276:TRP:CZ2	1:D:280:MET:HG3	2.47	0.49
1:E:193:LEU:CB	1:E:196:GLN:HE22	2.25	0.49
1:E:550:ASN:OD1	1:E:611:GLN:OE1	2.30	0.49
1:E:654:LEU:HD23	1:E:654:LEU:C	2.38	0.49
1:F:118:LYS:HD3	1:F:265:LEU:HA	1.95	0.49
1:F:263:ASN:HD21	1:F:265:LEU:N	2.10	0.49
1:G:226:TRP:HB3	1:G:229:VAL:CG2	2.42	0.49
1:G:276:TRP:CZ2	1:G:280:MET:HG3	2.47	0.49
1:G:416:ASP:OD1	1:G:416:ASP:N	2.41	0.49
1:G:583:THR:HB	1:G:584:PRO:CD	2.43	0.49
1:H:213:PHE:C	1:H:213:PHE:CD2	2.90	0.49
1:H:245:VAL:HG12	1:H:246:TYR:N	2.24	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:269:LEU:HD22	1:H:272:LYS:HE3	1.95	0.49
1:H:272:LYS:O	1:H:273:LEU:C	2.55	0.49
1:H:285:GLN:HE21	1:H:286:ARG:HH12	1.58	0.49
1:H:423:TYR:O	1:H:425:HIS:N	2.45	0.49
1:A:322:VAL:CG1	1:A:323:HIS:H	2.21	0.49
1:A:571:TYR:CE2	1:A:590:MET:HG3	2.48	0.49
1:A:588:ASN:CG	1:A:589:ASP:N	2.63	0.49
1:A:662:CYS:SG	1:B:661:ALA:HB1	2.53	0.49
1:B:190:ALA:HB2	1:B:206:TRP:CG	2.48	0.49
1:C:153:LEU:HD22	1:C:162:HIS:HD1	1.78	0.49
1:C:484:ASP:O	1:C:485:PHE:C	2.55	0.49
1:C:643:VAL:O	1:C:644:VAL:CG2	2.59	0.49
1:C:655:TRP:CE3	1:D:654:LEU:HD12	2.47	0.49
1:C:665:VAL:CG2	1:D:665:VAL:HG22	2.43	0.49
1:D:654:LEU:HD23	1:D:654:LEU:C	2.38	0.49
1:E:18:LYS:NZ	1:E:33:ILE:HD12	2.27	0.49
1:E:146:LEU:HB3	1:E:207:SER:HB2	1.95	0.49
1:E:186:LEU:HD23	1:E:227:GLN:HG2	1.94	0.49
1:E:221:PRO:O	1:E:222:PHE:HB3	2.11	0.49
1:E:269:LEU:HD22	1:E:272:LYS:HE3	1.95	0.49
1:E:368:THR:HG22	1:E:368:THR:O	2.11	0.49
1:E:588:ASN:CG	1:E:589:ASP:N	2.66	0.49
1:F:486:PHE:CE1	1:F:647:GLN:HB3	2.48	0.49
1:F:566:GLN:HG2	1:F:593:LEU:CD1	2.42	0.49
1:G:594:LEU:O	1:G:598:ILE:HG13	2.13	0.49
1:H:249:LEU:HD23	1:H:253:VAL:H	1.77	0.49
1:H:390:PHE:CZ	1:H:612:LEU:HD11	2.48	0.49
1:A:269:LEU:C	1:A:271:GLY:N	2.68	0.49
1:A:492:ILE:HG23	1:B:651:GLN:HE22	1.77	0.49
1:C:118:LYS:HD3	1:C:265:LEU:HA	1.94	0.49
1:C:118:LYS:CD	1:C:265:LEU:HA	2.42	0.49
1:C:216:ILE:HG21	1:C:273:LEU:HD12	1.95	0.49
1:C:423:TYR:O	1:C:425:HIS:N	2.45	0.49
1:C:654:LEU:HD23	1:C:654:LEU:C	2.38	0.49
1:D:322:VAL:CG1	1:D:323:HIS:H	2.17	0.49
1:D:418:LYS:O	1:D:419:ARG:CB	2.61	0.49
1:D:497:TYR:O	1:D:497:TYR:HD2	1.85	0.49
1:E:660:ILE:O	1:E:662:CYS:N	2.45	0.49
1:F:493:ASP:HB3	1:F:514:TRP:CZ3	2.48	0.49
1:G:438:ARG:HH11	1:G:568:ARG:HH21	1.57	0.49
1:G:531:GLN:HA	1:G:534:VAL:HG12	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:263:ASN:HD21	1:H:265:LEU:N	2.09	0.49
1:B:222:PHE:HD2	1:B:224:PRO:HD2	1.78	0.49
1:B:341:GLN:O	1:B:345:GLY:N	2.45	0.49
1:B:434:TRP:CE3	1:B:568:ARG:CA	2.68	0.49
1:B:583:THR:HB	1:B:584:PRO:CD	2.43	0.49
1:B:644:VAL:HA	1:B:647:GLN:NE2	2.19	0.49
1:B:653:GLU:HA	1:B:656:ASN:HB3	1.95	0.49
1:C:534:VAL:CG1	1:C:535:ASP:N	2.75	0.49
1:E:270:ALA:HB1	1:E:274:GLU:OE2	2.13	0.49
1:E:469:LYS:NZ	1:E:630:LYS:HE2	2.28	0.49
1:E:529:GLU:O	1:E:533:LEU:HG	2.13	0.49
1:E:531:GLN:O	1:E:535:ASP:HB3	2.13	0.49
1:G:422:THR:HB	1:G:585:GLY:CA	2.42	0.49
1:B:308:SER:O	1:B:309:LEU:HB2	2.12	0.48
1:B:368:THR:HG22	1:B:368:THR:O	2.12	0.48
1:B:478:GLN:HG3	1:B:479:LEU:N	2.27	0.48
1:B:529:GLU:O	1:B:533:LEU:HG	2.12	0.48
1:B:534:VAL:CG1	1:B:535:ASP:N	2.75	0.48
1:B:642:ILE:C	1:B:644:VAL:H	2.21	0.48
1:C:42:ALA:HB3	1:C:96:MET:HB2	1.95	0.48
1:C:281:LEU:O	1:C:282:MET:HG2	2.12	0.48
1:C:284:HIS:NE2	1:E:342:GLN:CD	2.71	0.48
1:D:249:LEU:HD23	1:D:253:VAL:H	1.78	0.48
1:D:527:GLU:HG2	1:D:530:VAL:HG13	1.95	0.48
1:E:234:LYS:O	1:E:235:VAL:O	2.31	0.48
1:E:651:GLN:NE2	1:F:492:ILE:HG21	2.26	0.48
1:F:119:GLU:HB2	1:F:121:PRO:CB	2.43	0.48
1:F:249:LEU:HA	1:F:253:VAL:O	2.13	0.48
1:H:220:ARG:NH1	1:H:223:LEU:CD2	2.70	0.48
1:H:350:GLU:OE2	1:H:391:ASP:O	2.30	0.48
1:H:534:VAL:CG1	1:H:535:ASP:N	2.76	0.48
1:A:16:GLU:HG2	1:A:83:LEU:CD1	2.43	0.48
1:A:210:THR:O	1:A:211:LEU:C	2.57	0.48
1:A:441:LYS:HB2	1:A:560:LEU:HD22	1.93	0.48
1:B:18:LYS:NZ	1:B:33:ILE:HD12	2.27	0.48
1:C:120:GLY:N	1:C:122:ILE:H	2.11	0.48
1:C:387:ILE:HD12	1:C:450:GLY:CA	2.44	0.48
1:C:531:GLN:O	1:C:535:ASP:HB3	2.13	0.48
1:E:300:PHE:O	1:E:301:GLN:C	2.55	0.48
1:E:482:LYS:C	1:E:484:ASP:N	2.71	0.48
1:E:517:MET:SD	1:E:650:ARG:HG3	2.52	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:212:ALA:O	1:F:213:PHE:C	2.56	0.48
1:F:272:LYS:HG2	1:F:273:LEU:CA	2.41	0.48
1:F:300:PHE:O	1:F:301:GLN:C	2.56	0.48
1:G:113:ASN:HA	1:G:116:GLY:O	2.12	0.48
1:H:444:CYS:O	1:H:446:ARG:N	2.46	0.48
1:H:529:GLU:O	1:H:533:LEU:HG	2.12	0.48
1:A:191:PRO:HG3	1:A:234:LYS:HZ3	1.78	0.48
1:B:440:LEU:HD12	1:B:597:ALA:O	2.14	0.48
1:B:633:MET:SD	1:B:633:MET:N	2.86	0.48
1:C:220:ARG:NH1	1:C:223:LEU:CD2	2.71	0.48
1:C:226:TRP:CG	1:C:227:GLN:N	2.62	0.48
1:C:341:GLN:O	1:C:345:GLY:N	2.47	0.48
1:C:646:ARG:C	1:C:647:GLN:CD	2.80	0.48
1:E:198:LYS:C	1:E:200:THR:N	2.68	0.48
1:E:373:ASP:OD1	1:E:374:CYS:N	2.46	0.48
1:E:492:ILE:HG21	1:F:651:GLN:NE2	2.27	0.48
1:E:545:VAL:HA	1:E:548:GLN:HG2	1.95	0.48
1:E:654:LEU:HD23	1:F:654:LEU:HD21	1.85	0.48
1:G:216:ILE:HG21	1:G:273:LEU:HD12	1.96	0.48
1:G:359:LEU:CA	1:G:460:ARG:NH1	2.71	0.48
1:G:362:ASN:C	1:G:364:ALA:N	2.71	0.48
1:G:389:LEU:HD12	1:G:389:LEU:N	2.28	0.48
1:H:137:HIS:ND1	1:H:201:VAL:HG13	2.28	0.48
1:H:590:MET:HE1	1:H:593:LEU:HD12	1.94	0.48
1:A:430:TRP:HB3	1:A:571:TYR:CD2	2.40	0.48
1:B:118:LYS:NZ	1:B:123:ARG:HH12	2.11	0.48
1:B:270:ALA:HB1	1:B:274:GLU:OE2	2.13	0.48
1:B:517:MET:CE	1:B:650:ARG:HG3	2.43	0.48
1:C:30:LEU:HB2	1:C:43:ILE:HB	1.96	0.48
1:C:386:LEU:HD12	1:C:386:LEU:N	2.29	0.48
1:D:133:LEU:O	1:D:134:ARG:C	2.56	0.48
1:D:216:ILE:HG21	1:D:273:LEU:HD12	1.94	0.48
1:D:642:ILE:C	1:D:644:VAL:H	2.20	0.48
1:D:653:GLU:HA	1:D:656:ASN:HB3	1.95	0.48
1:E:119:GLU:HB2	1:E:121:PRO:CB	2.43	0.48
1:E:226:TRP:HB3	1:E:229:VAL:CG2	2.43	0.48
1:E:422:THR:HG22	1:E:426:LEU:HD11	1.96	0.48
1:E:583:THR:HB	1:E:584:PRO:CD	2.43	0.48
1:F:480:LYS:HZ2	1:F:527:GLU:HB2	1.75	0.48
1:G:116:GLY:HA3	1:G:216:ILE:O	2.14	0.48
1:G:402:SER:HB3	1:G:609:TYR:HB2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:472:MET:HG2	1:G:633:MET:CB	2.40	0.48
1:H:286:ARG:O	1:H:290:THR:HG21	2.13	0.48
1:A:418:LYS:HB3	1:A:420:PRO:HD3	1.95	0.48
1:A:451:GLN:CD	1:A:611:GLN:NE2	2.71	0.48
1:A:658:LEU:HA	1:B:658:LEU:HD12	1.95	0.48
1:B:144:ARG:HD2	1:B:171:LYS:HB3	1.95	0.48
1:B:437:ILE:HG22	1:B:564:GLU:HB2	1.96	0.48
1:B:580:ASP:HA	1:B:582:ARG:HH11	1.77	0.48
1:C:249:LEU:HD23	1:C:253:VAL:H	1.78	0.48
1:C:485:PHE:CD1	1:D:485:PHE:CE1	3.02	0.48
1:C:496:LYS:C	1:D:655:TRP:CZ2	2.91	0.48
1:C:647:GLN:OE1	1:C:647:GLN:HA	2.14	0.48
1:D:102:GLY:O	1:D:152:VAL:HA	2.14	0.48
1:D:409:SER:HB2	1:D:412:ILE:CD1	2.41	0.48
1:D:423:TYR:O	1:D:425:HIS:N	2.46	0.48
1:D:426:LEU:O	1:D:430:TRP:N	2.42	0.48
1:D:434:TRP:CZ3	1:D:568:ARG:CB	2.91	0.48
1:E:72:ASN:O	1:E:163:LYS:HA	2.14	0.48
1:E:313:SER:HA	1:E:324:THR:HA	1.94	0.48
1:F:269:LEU:C	1:F:271:GLY:N	2.71	0.48
1:F:285:GLN:HE21	1:F:286:ARG:HH12	1.60	0.48
1:F:418:LYS:HB3	1:F:420:PRO:HD3	1.95	0.48
1:F:484:ASP:C	1:F:486:PHE:H	2.20	0.48
1:G:449:GLN:O	1:G:450:GLY:C	2.56	0.48
1:H:281:LEU:C	1:H:282:MET:HG2	2.38	0.48
1:H:362:ASN:C	1:H:364:ALA:N	2.71	0.48
1:A:105:ARG:HG2	1:A:109:ASN:ND2	2.29	0.48
1:A:484:ASP:C	1:A:486:PHE:H	2.20	0.48
1:B:248:ASP:OD1	1:B:248:ASP:O	2.31	0.48
1:B:250:THR:C	1:B:251:GLY:O	2.54	0.48
1:B:276:TRP:CZ2	1:B:280:MET:HG3	2.49	0.48
1:B:511:LEU:HD21	1:B:515:ARG:NH2	2.29	0.48
1:B:540:LEU:CD2	1:B:621:LYS:CE	2.91	0.48
1:B:643:VAL:O	1:B:644:VAL:CG2	2.60	0.48
1:C:248:ASP:OD1	1:C:248:ASP:O	2.30	0.48
1:C:422:THR:OG1	1:C:585:GLY:C	2.56	0.48
1:D:220:ARG:HB3	1:D:221:PRO:HD2	1.95	0.48
1:D:361:LEU:HD11	1:D:386:LEU:HD23	1.96	0.48
1:D:394:LYS:HE3	1:D:609:TYR:O	2.14	0.48
1:E:130:SER:O	1:E:300:PHE:CE1	2.65	0.48
1:E:190:ALA:HB2	1:E:206:TRP:CG	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:655:TRP:CZ3	1:F:654:LEU:HD12	2.47	0.48
1:F:276:TRP:CZ2	1:F:280:MET:HG3	2.49	0.48
1:F:547:LEU:O	1:F:550:ASN:ND2	2.47	0.48
1:F:653:GLU:HA	1:F:656:ASN:HB3	1.94	0.48
1:G:18:LYS:NZ	1:G:33:ILE:HD12	2.27	0.48
1:G:118:LYS:CG	1:G:264:HIS:O	2.62	0.48
1:A:216:ILE:HG21	1:A:273:LEU:HD12	1.96	0.48
1:A:418:LYS:O	1:A:419:ARG:CB	2.61	0.48
1:B:272:LYS:O	1:B:273:LEU:C	2.56	0.48
1:B:276:TRP:CE3	1:B:277:LEU:CD2	2.96	0.48
1:B:426:LEU:HB3	1:B:430:TRP:CD1	2.49	0.48
1:B:448:LEU:HD23	1:B:608:ILE:HG12	1.95	0.48
1:C:221:PRO:O	1:C:222:PHE:HB3	2.12	0.48
1:C:387:ILE:HD12	1:C:450:GLY:N	2.28	0.48
1:C:438:ARG:HG2	1:C:564:GLU:CD	2.38	0.48
1:C:485:PHE:CE2	1:D:485:PHE:HB3	2.49	0.48
1:C:583:THR:O	1:C:584:PRO:C	2.57	0.48
1:D:430:TRP:C	1:D:571:TYR:CD2	2.92	0.48
1:D:494:LEU:HD21	1:D:518:GLU:OE2	2.14	0.48
1:E:42:ALA:HB3	1:E:96:MET:HB2	1.96	0.48
1:E:133:LEU:O	1:E:134:ARG:C	2.56	0.48
1:E:198:LYS:HG2	1:E:284:HIS:HA	1.96	0.48
1:E:220:ARG:HB3	1:E:221:PRO:HD2	1.95	0.48
1:E:322:VAL:HG21	1:E:446:ARG:HH12	1.78	0.48
1:E:418:LYS:O	1:E:419:ARG:CB	2.62	0.48
1:F:115:CYS:SG	1:F:432:GLN:HA	2.54	0.48
1:F:191:PRO:HG3	1:F:234:LYS:HZ3	1.77	0.48
1:F:435:GLN:O	1:F:439:ALA:N	2.46	0.48
1:F:637:ARG:O	1:F:641:LYS:HB2	2.12	0.48
1:G:272:LYS:HG2	1:G:273:LEU:CA	2.44	0.48
1:H:107:TYR:O	1:H:110:GLN:HB2	2.13	0.48
1:H:300:PHE:O	1:H:301:GLN:C	2.57	0.48
1:H:438:ARG:HH11	1:H:568:ARG:HH21	1.59	0.48
1:A:479:LEU:HD12	1:A:640:GLU:CB	2.26	0.48
1:A:655:TRP:CH2	1:B:497:TYR:HB2	2.48	0.48
1:B:269:LEU:HD22	1:B:272:LYS:HE3	1.96	0.48
1:B:650:ARG:HD3	1:B:650:ARG:HA	1.64	0.48
1:C:285:GLN:HE21	1:C:286:ARG:HH12	1.62	0.48
1:C:339:TRP:HA	1:C:342:GLN:CB	2.37	0.48
1:C:642:ILE:C	1:C:644:VAL:H	2.21	0.48
1:D:272:LYS:HG2	1:D:273:LEU:CA	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:500:GLN:HB3	1:D:505:ILE:CG1	2.44	0.48
1:D:503:PHE:C	1:D:505:ILE:H	2.21	0.48
1:D:547:LEU:O	1:D:550:ASN:ND2	2.46	0.48
1:E:569:ASP:HB3	1:E:573:ARG:HD3	1.95	0.48
1:E:614:LYS:O	1:E:617:VAL:HB	2.13	0.48
1:E:642:ILE:C	1:E:644:VAL:H	2.22	0.48
1:F:285:GLN:O	1:F:285:GLN:HG2	2.13	0.48
1:H:616:VAL:HG13	1:H:619:LYS:HD2	1.95	0.48
1:A:119:GLU:HB3	1:A:121:PRO:CD	2.44	0.48
1:A:513:ALA:HB1	1:A:650:ARG:NH1	2.26	0.48
1:A:536:LYS:HD3	1:A:625:LEU:HD22	1.95	0.48
1:B:433:ILE:CB	1:B:571:TYR:OH	2.61	0.48
1:B:480:LYS:HE2	1:B:640:GLU:OE1	2.13	0.48
1:B:501:MET:C	1:B:505:ILE:CD1	2.87	0.48
1:B:570:LEU:HD23	1:B:590:MET:HE2	1.95	0.48
1:C:486:PHE:HZ	1:C:517:MET:HE2	1.78	0.48
1:D:120:GLY:N	1:D:122:ILE:H	2.07	0.48
1:D:437:ILE:HG22	1:D:564:GLU:HB2	1.94	0.48
1:E:105:ARG:HG2	1:E:109:ASN:ND2	2.29	0.48
1:E:327:VAL:CG1	1:E:367:LEU:HB2	2.36	0.48
1:E:643:VAL:O	1:E:644:VAL:CG2	2.61	0.48
1:E:650:ARG:HD3	1:E:650:ARG:HA	1.63	0.48
1:E:654:LEU:HD11	1:F:655:TRP:HE3	1.60	0.48
1:F:118:LYS:NZ	1:F:123:ARG:HH12	2.10	0.48
1:F:473:THR:CG2	1:F:533:LEU:CD2	2.80	0.48
1:F:650:ARG:HD3	1:F:650:ARG:HA	1.66	0.48
1:H:84:GLN:HB3	1:H:85:LYS:H	1.50	0.48
1:H:437:ILE:HG22	1:H:564:GLU:CB	2.43	0.48
1:A:389:LEU:N	1:A:389:LEU:HD12	2.29	0.48
1:B:16:GLU:HG2	1:B:83:LEU:CD1	2.44	0.48
1:B:362:ASN:C	1:B:364:ALA:N	2.71	0.48
1:B:412:ILE:HG12	1:B:433:ILE:CD1	2.44	0.48
1:B:423:TYR:O	1:B:425:HIS:N	2.47	0.48
1:B:570:LEU:CD2	1:B:590:MET:HE2	2.44	0.48
1:C:500:GLN:HE22	1:D:659:LYS:HG2	1.78	0.48
1:C:594:LEU:O	1:C:598:ILE:HG13	2.14	0.48
1:D:124:THR:OG1	1:D:162:HIS:HE1	1.97	0.48
1:D:286:ARG:O	1:D:290:THR:HG21	2.13	0.48
1:D:300:PHE:O	1:D:301:GLN:C	2.57	0.48
1:E:125:LEU:HD21	1:E:215:CYS:SG	2.54	0.48
1:E:248:ASP:OD1	1:E:248:ASP:O	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:665:VAL:HG21	1:F:665:VAL:CG2	2.40	0.48
1:F:16:GLU:HG2	1:F:83:LEU:CD1	2.44	0.48
1:G:42:ALA:HB3	1:G:96:MET:HB2	1.96	0.48
1:G:386:LEU:HD12	1:G:386:LEU:N	2.27	0.48
1:H:426:LEU:HB3	1:H:430:TRP:CD1	2.49	0.48
1:A:249:LEU:HB3	1:A:250:THR:H	1.39	0.47
1:A:430:TRP:CZ3	1:A:574:LEU:HD13	2.49	0.47
1:B:191:PRO:HG3	1:B:234:LYS:HZ2	1.78	0.47
1:B:249:LEU:HD23	1:B:253:VAL:H	1.77	0.47
1:B:649:LYS:HA	1:B:652:GLN:HB2	1.94	0.47
1:C:105:ARG:HG3	1:C:105:ARG:NH1	2.29	0.47
1:C:651:GLN:O	1:C:652:GLN:C	2.57	0.47
1:C:658:LEU:HA	1:D:658:LEU:CD1	2.44	0.47
1:D:119:GLU:HB3	1:D:121:PRO:CD	2.39	0.47
1:E:315:MET:HE3	1:E:447:LEU:HD23	1.96	0.47
1:E:500:GLN:C	1:E:505:ILE:HG12	2.38	0.47
1:F:511:LEU:HG	1:F:515:ARG:CZ	2.43	0.47
1:H:130:SER:O	1:H:300:PHE:CE1	2.66	0.47
1:H:394:LYS:CD	1:H:401:ILE:HA	2.44	0.47
1:H:434:TRP:CB	1:H:571:TYR:CD1	2.80	0.47
1:H:449:GLN:O	1:H:450:GLY:C	2.57	0.47
1:A:260:PRO:CD	1:A:274:GLU:HG2	2.44	0.47
1:A:272:LYS:HG2	1:A:273:LEU:CA	2.44	0.47
1:A:386:LEU:HD12	1:A:386:LEU:N	2.28	0.47
1:A:423:TYR:O	1:A:425:HIS:N	2.47	0.47
1:A:529:GLU:O	1:A:533:LEU:HG	2.14	0.47
1:B:254:LYS:N	1:B:255:PHE:CE1	2.82	0.47
1:B:272:LYS:HG2	1:B:273:LEU:CA	2.43	0.47
1:B:402:SER:O	1:B:403:LEU:CB	2.61	0.47
1:B:545:VAL:HA	1:B:548:GLN:HG2	1.96	0.47
1:C:297:VAL:HG23	1:C:301:GLN:HE21	1.80	0.47
1:C:389:LEU:N	1:C:389:LEU:HD12	2.29	0.47
1:D:449:GLN:NE2	1:D:453:THR:HG22	2.29	0.47
1:E:530:VAL:CA	1:E:533:LEU:HD12	2.30	0.47
1:F:260:PRO:HB3	1:F:273:LEU:HD22	1.96	0.47
1:F:263:ASN:HD21	1:F:265:LEU:H	1.62	0.47
1:F:423:TYR:O	1:F:425:HIS:N	2.47	0.47
1:F:426:LEU:O	1:F:430:TRP:N	2.41	0.47
1:F:590:MET:HE1	1:F:593:LEU:HD12	1.96	0.47
1:H:18:LYS:NZ	1:H:33:ILE:HD12	2.26	0.47
1:H:341:GLN:O	1:H:345:GLY:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:571:TYR:OH	1:H:590:MET:SD	2.72	0.47
1:H:580:ASP:HA	1:H:582:ARG:HH11	1.76	0.47
1:H:583:THR:HB	1:H:584:PRO:CD	2.44	0.47
1:A:503:PHE:CE1	1:B:666:ARG:HG3	2.45	0.47
1:A:545:VAL:HA	1:A:548:GLN:HG2	1.96	0.47
1:B:222:PHE:CE2	1:B:224:PRO:O	2.67	0.47
1:B:435:GLN:O	1:B:439:ALA:N	2.46	0.47
1:C:563:LEU:HD23	1:C:597:ALA:HB2	1.96	0.47
1:D:171:LYS:O	1:D:171:LYS:CG	2.59	0.47
1:D:260:PRO:CD	1:D:274:GLU:HG2	2.44	0.47
1:D:272:LYS:O	1:D:273:LEU:C	2.57	0.47
1:D:451:GLN:NE2	1:D:608:ILE:O	2.47	0.47
1:D:501:MET:C	1:D:505:ILE:HD11	2.38	0.47
1:E:296:ASN:CG	1:E:297:VAL:N	2.72	0.47
1:E:322:VAL:CG1	1:E:323:HIS:H	2.21	0.47
1:E:469:LYS:NZ	1:E:630:LYS:CE	2.77	0.47
1:E:484:ASP:C	1:E:486:PHE:H	2.22	0.47
1:F:430:TRP:HZ2	1:F:586:ASP:O	1.97	0.47
1:F:511:LEU:HD21	1:F:515:ARG:NH2	2.29	0.47
1:G:248:ASP:OD1	1:G:248:ASP:O	2.32	0.47
1:G:390:PHE:N	1:G:390:PHE:CD1	2.83	0.47
1:G:430:TRP:O	1:G:431:GLY:C	2.57	0.47
1:G:545:VAL:HA	1:G:548:GLN:HG2	1.96	0.47
1:H:253:VAL:HB	1:H:255:PHE:CE1	2.50	0.47
1:H:418:LYS:HB3	1:H:420:PRO:HD3	1.95	0.47
1:H:429:VAL:O	1:H:433:ILE:HG12	2.13	0.47
1:H:430:TRP:HB3	1:H:571:TYR:CD2	2.42	0.47
1:H:533:LEU:CD2	1:H:633:MET:HE3	2.44	0.47
1:A:102:GLY:O	1:A:152:VAL:HA	2.14	0.47
1:A:116:GLY:CA	1:A:217:THR:O	2.62	0.47
1:A:198:LYS:C	1:A:200:THR:N	2.73	0.47
1:A:276:TRP:CZ2	1:A:280:MET:HG3	2.49	0.47
1:A:362:ASN:C	1:A:364:ALA:N	2.72	0.47
1:A:511:LEU:HG	1:A:515:ARG:CZ	2.44	0.47
1:B:105:ARG:HG2	1:B:109:ASN:ND2	2.30	0.47
1:B:119:GLU:HB2	1:B:121:PRO:HB2	1.95	0.47
1:B:125:LEU:CA	1:B:162:HIS:NE2	2.70	0.47
1:C:16:GLU:HG2	1:C:83:LEU:CD1	2.43	0.47
1:C:102:GLY:O	1:C:152:VAL:HA	2.14	0.47
1:C:186:LEU:C	1:C:188:TYR:H	2.23	0.47
1:C:247:ASP:HB3	1:C:248:ASP:H	1.51	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:362:ASN:C	1:C:364:ALA:N	2.71	0.47
1:C:441:LYS:HB2	1:C:560:LEU:HD22	1.96	0.47
1:C:642:ILE:HG12	1:C:645:ARG:NH1	2.29	0.47
1:D:418:LYS:HB3	1:D:420:PRO:HD3	1.97	0.47
1:D:530:VAL:CA	1:D:533:LEU:HD12	2.30	0.47
1:D:583:THR:HB	1:D:584:PRO:CD	2.44	0.47
1:E:281:LEU:O	1:E:282:MET:HG2	2.14	0.47
1:E:436:THR:O	1:E:440:LEU:HG	2.14	0.47
1:F:30:LEU:HB2	1:F:43:ILE:HB	1.95	0.47
1:F:165:ILE:HG12	1:F:166:ASP:H	1.78	0.47
1:F:229:VAL:CG1	1:G:229:VAL:HG13	2.27	0.47
1:F:389:LEU:CD2	1:F:612:LEU:HD21	2.45	0.47
1:F:475:GLU:CD	1:F:636:MET:HE1	2.40	0.47
1:G:189:LEU:HA	1:G:189:LEU:HD12	1.66	0.47
1:G:281:LEU:C	1:G:282:MET:HG2	2.40	0.47
1:H:412:ILE:O	1:H:415:GLN:HB2	2.15	0.47
1:H:438:ARG:HG2	1:H:564:GLU:OE1	2.14	0.47
1:A:117:LEU:O	1:A:122:ILE:HD11	2.14	0.47
1:B:30:LEU:HB2	1:B:43:ILE:HB	1.96	0.47
1:B:121:PRO:HA	1:B:124:THR:OG1	2.14	0.47
1:B:540:LEU:HD22	1:B:621:LYS:CE	2.44	0.47
1:C:222:PHE:CE2	1:C:224:PRO:O	2.66	0.47
1:C:402:SER:O	1:C:403:LEU:CB	2.62	0.47
1:C:410:VAL:O	1:C:411:SER:C	2.57	0.47
1:D:386:LEU:HD12	1:D:386:LEU:N	2.27	0.47
1:E:113:ASN:HA	1:E:116:GLY:O	2.13	0.47
1:E:362:ASN:C	1:E:364:ALA:N	2.72	0.47
1:E:588:ASN:OD1	1:E:589:ASP:N	2.47	0.47
1:F:451:GLN:CD	1:F:611:GLN:NE2	2.72	0.47
1:G:144:ARG:HD2	1:G:171:LYS:HB3	1.96	0.47
1:G:426:LEU:O	1:G:430:TRP:N	2.43	0.47
1:G:438:ARG:HG2	1:G:564:GLU:HG3	1.96	0.47
1:H:74:VAL:HG21	1:H:165:ILE:HA	1.96	0.47
1:H:222:PHE:CE2	1:H:224:PRO:O	2.67	0.47
1:H:339:TRP:HA	1:H:342:GLN:CB	2.36	0.47
1:A:189:LEU:HD12	1:A:207:SER:HB3	1.95	0.47
1:B:210:THR:O	1:B:211:LEU:C	2.58	0.47
1:B:220:ARG:HB3	1:B:221:PRO:HD2	1.97	0.47
1:B:357:SER:HB3	1:B:453:THR:HB	1.97	0.47
1:C:226:TRP:HB3	1:C:229:VAL:CG2	2.43	0.47
1:C:270:ALA:HB1	1:C:274:GLU:OE2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:583:THR:O	1:D:584:PRO:C	2.57	0.47
1:E:286:ARG:O	1:E:290:THR:HG21	2.14	0.47
1:E:297:VAL:HG23	1:E:301:GLN:HE21	1.79	0.47
1:E:309:LEU:C	1:E:310:LYS:HG3	2.39	0.47
1:E:429:VAL:O	1:E:433:ILE:HG12	2.15	0.47
1:F:144:ARG:HD2	1:F:171:LYS:HB3	1.95	0.47
1:G:438:ARG:HG2	1:G:564:GLU:OE1	2.15	0.47
1:G:583:THR:O	1:G:584:PRO:C	2.58	0.47
1:H:190:ALA:O	1:H:191:PRO:C	2.58	0.47
1:H:386:LEU:HD12	1:H:386:LEU:N	2.29	0.47
1:H:451:GLN:OE1	1:H:611:GLN:NE2	2.44	0.47
1:A:189:LEU:HD12	1:A:189:LEU:HA	1.65	0.47
1:A:300:PHE:O	1:A:301:GLN:C	2.56	0.47
1:A:583:THR:O	1:A:584:PRO:C	2.58	0.47
1:A:660:ILE:C	1:A:662:CYS:N	2.65	0.47
1:B:249:LEU:HB3	1:B:250:THR:H	1.38	0.47
1:B:322:VAL:CG1	1:B:323:HIS:H	2.22	0.47
1:B:410:VAL:O	1:B:411:SER:C	2.58	0.47
1:B:418:LYS:HB3	1:B:420:PRO:HD3	1.96	0.47
1:B:444:CYS:O	1:B:446:ARG:N	2.47	0.47
1:C:144:ARG:HD2	1:C:171:LYS:HB3	1.97	0.47
1:C:434:TRP:CZ3	1:C:568:ARG:HG3	2.46	0.47
1:C:494:LEU:CD2	1:C:518:GLU:OE2	2.63	0.47
1:C:659:LYS:CG	1:D:500:GLN:HE22	2.26	0.47
1:D:248:ASP:OD1	1:D:248:ASP:O	2.33	0.47
1:D:350:GLU:CG	1:D:391:ASP:HB2	2.44	0.47
1:D:484:ASP:O	1:D:485:PHE:C	2.58	0.47
1:D:647:GLN:OE1	1:D:647:GLN:HA	2.15	0.47
1:E:16:GLU:HG2	1:E:83:LEU:CD1	2.44	0.47
1:E:17:MET:HE1	1:E:80:PRO:HG2	1.97	0.47
1:E:30:LEU:HB2	1:E:43:ILE:HB	1.96	0.47
1:E:285:GLN:HE21	1:E:286:ARG:HH12	1.62	0.47
1:E:341:GLN:O	1:E:345:GLY:N	2.48	0.47
1:E:361:LEU:HD11	1:E:386:LEU:HD23	1.96	0.47
1:E:386:LEU:HD12	1:E:386:LEU:N	2.27	0.47
1:E:419:ARG:HA	1:E:587:SER:CB	2.45	0.47
1:F:373:ASP:OD1	1:F:374:CYS:N	2.47	0.47
1:F:583:THR:O	1:F:584:PRO:C	2.58	0.47
1:F:633:MET:SD	1:F:633:MET:N	2.87	0.47
1:G:72:ASN:O	1:G:164:ILE:HG22	2.15	0.47
1:G:153:LEU:HD23	1:G:162:HIS:HB3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:186:LEU:C	1:G:188:TYR:H	2.22	0.47
1:G:221:PRO:O	1:G:222:PHE:HB3	2.14	0.47
1:G:269:LEU:C	1:G:271:GLY:N	2.71	0.47
1:G:276:TRP:CE3	1:G:277:LEU:CD2	2.98	0.47
1:G:402:SER:O	1:G:403:LEU:CB	2.63	0.47
1:H:64:ILE:HG12	1:H:172:GLU:OE1	2.15	0.47
1:H:72:ASN:H	1:H:163:LYS:HE2	1.79	0.47
1:H:121:PRO:HA	1:H:124:THR:OG1	2.15	0.47
1:H:270:ALA:HB1	1:H:274:GLU:OE2	2.14	0.47
1:H:285:GLN:HG2	1:H:285:GLN:O	2.15	0.47
1:H:531:GLN:O	1:H:535:ASP:HB3	2.13	0.47
1:A:30:LEU:HB2	1:A:43:ILE:HB	1.96	0.47
1:A:115:CYS:SG	1:A:432:GLN:HA	2.54	0.47
1:A:249:LEU:HD23	1:A:253:VAL:H	1.80	0.47
1:B:117:LEU:O	1:B:122:ILE:HD11	2.15	0.47
1:C:297:VAL:HG23	1:C:301:GLN:NE2	2.30	0.47
1:C:430:TRP:O	1:C:431:GLY:C	2.58	0.47
1:C:500:GLN:HB3	1:C:505:ILE:CG1	2.44	0.47
1:D:373:ASP:OD1	1:D:374:CYS:N	2.48	0.47
1:D:447:LEU:HD13	1:D:609:TYR:HE1	1.80	0.47
1:E:418:LYS:HB3	1:E:420:PRO:HD3	1.96	0.47
1:E:660:ILE:C	1:E:662:CYS:N	2.68	0.47
1:F:186:LEU:C	1:F:188:TYR:H	2.22	0.47
1:F:193:LEU:CB	1:F:196:GLN:HE22	2.24	0.47
1:F:594:LEU:O	1:F:598:ILE:HG13	2.14	0.47
1:G:105:ARG:HG2	1:G:109:ASN:ND2	2.29	0.47
1:G:119:GLU:HB2	1:G:121:PRO:CB	2.45	0.47
1:G:210:THR:O	1:G:211:LEU:C	2.58	0.47
1:G:359:LEU:N	1:G:460:ARG:NH1	2.62	0.47
1:G:418:LYS:O	1:G:419:ARG:CB	2.62	0.47
1:H:189:LEU:HD12	1:H:189:LEU:HA	1.68	0.47
1:H:402:SER:O	1:H:403:LEU:CB	2.62	0.47
1:H:433:ILE:CB	1:H:571:TYR:OH	2.63	0.47
1:H:536:LYS:HB3	1:H:625:LEU:CD2	2.44	0.47
1:A:42:ALA:HB3	1:A:96:MET:HB2	1.96	0.47
1:A:115:CYS:CB	1:A:435:GLN:HG3	2.45	0.47
1:B:17:MET:HE1	1:B:80:PRO:HG2	1.97	0.47
1:B:486:PHE:CE1	1:B:647:GLN:HB3	2.50	0.47
1:B:564:GLU:OE2	1:B:568:ARG:NH2	2.47	0.47
1:C:130:SER:O	1:C:300:PHE:CE1	2.68	0.47
1:C:646:ARG:C	1:C:647:GLN:OE1	2.57	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:479:LEU:O	1:D:640:GLU:OE2	2.32	0.47
1:E:222:PHE:CE2	1:E:224:PRO:O	2.68	0.47
1:E:387:ILE:HD11	1:E:449:GLN:HB3	1.96	0.47
1:F:286:ARG:O	1:F:290:THR:HG21	2.14	0.47
1:F:588:ASN:OD1	1:F:589:ASP:N	2.47	0.47
1:G:373:ASP:OD1	1:G:374:CYS:N	2.48	0.47
1:H:198:LYS:C	1:H:200:THR:H	2.23	0.47
1:H:276:TRP:CZ2	1:H:280:MET:HG3	2.50	0.47
1:H:368:THR:HG22	1:H:368:THR:O	2.14	0.47
1:H:594:LEU:O	1:H:598:ILE:HG13	2.15	0.47
1:A:110:GLN:O	1:A:111:PHE:CB	2.36	0.47
1:A:216:ILE:HG21	1:A:273:LEU:CD1	2.45	0.47
1:A:319:SER:OG	1:A:403:LEU:HB2	2.14	0.47
1:A:422:THR:HG22	1:A:426:LEU:HD11	1.96	0.47
1:A:590:MET:HE1	1:A:593:LEU:HD12	1.96	0.47
1:A:642:ILE:C	1:A:644:VAL:H	2.22	0.47
1:B:102:GLY:O	1:B:152:VAL:HA	2.14	0.47
1:B:120:GLY:CA	1:B:123:ARG:HB2	2.44	0.47
1:C:213:PHE:O	1:C:214:GLU:C	2.58	0.47
1:C:269:LEU:C	1:C:271:GLY:N	2.68	0.47
1:C:300:PHE:O	1:C:301:GLN:C	2.55	0.47
1:C:644:VAL:HA	1:C:647:GLN:NE2	2.19	0.47
1:C:654:LEU:CD1	1:D:655:TRP:CZ3	2.98	0.47
1:D:545:VAL:HA	1:D:548:GLN:HG2	1.97	0.47
1:D:651:GLN:O	1:D:652:GLN:C	2.57	0.47
1:F:213:PHE:HD2	1:F:214:GLU:N	2.13	0.47
1:F:386:LEU:HD12	1:F:386:LEU:N	2.28	0.47
1:F:387:ILE:HD12	1:F:450:GLY:N	2.27	0.47
1:F:430:TRP:O	1:F:431:GLY:C	2.58	0.47
1:F:583:THR:HB	1:F:584:PRO:CD	2.44	0.47
1:G:30:LEU:HB2	1:G:43:ILE:HB	1.95	0.47
1:G:216:ILE:HG21	1:G:273:LEU:CD1	2.45	0.47
1:G:260:PRO:CD	1:G:274:GLU:HG2	2.45	0.47
1:G:387:ILE:HD12	1:G:450:GLY:CA	2.44	0.47
1:G:419:ARG:HA	1:G:587:SER:CB	2.45	0.47
1:G:423:TYR:O	1:G:425:HIS:N	2.48	0.47
1:G:449:GLN:NE2	1:G:453:THR:CG2	2.78	0.47
1:H:30:LEU:HB2	1:H:43:ILE:HB	1.97	0.47
1:H:276:TRP:CE3	1:H:277:LEU:CD2	2.98	0.47
1:H:418:LYS:O	1:H:419:ARG:CB	2.61	0.47
1:H:530:VAL:CA	1:H:533:LEU:HD12	2.31	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:390:PHE:N	1:A:390:PHE:CD1	2.83	0.46
1:A:651:GLN:O	1:A:652:GLN:C	2.57	0.46
1:B:118:LYS:HD3	1:B:265:LEU:HD12	1.98	0.46
1:B:119:GLU:HB2	1:B:121:PRO:CB	2.45	0.46
1:B:583:THR:O	1:B:584:PRO:C	2.58	0.46
1:C:517:MET:HE3	1:C:647:GLN:OE1	2.15	0.46
1:D:327:VAL:CG1	1:D:367:LEU:HB2	2.34	0.46
1:D:389:LEU:N	1:D:389:LEU:HD12	2.30	0.46
1:D:511:LEU:HG	1:D:515:ARG:CZ	2.45	0.46
1:E:291:ASP:HA	1:E:292:PRO:HD3	1.82	0.46
1:F:189:LEU:CG	1:F:190:ALA:N	2.66	0.46
1:F:272:LYS:O	1:F:273:LEU:C	2.58	0.46
1:F:296:ASN:ND2	1:F:302:ALA:HB2	2.30	0.46
1:F:402:SER:O	1:F:403:LEU:CB	2.62	0.46
1:F:430:TRP:CZ3	1:F:574:LEU:HD13	2.51	0.46
1:F:478:GLN:O	1:F:482:LYS:HB3	2.16	0.46
1:G:213:PHE:O	1:G:214:GLU:C	2.58	0.46
1:H:111:PHE:CE2	1:H:572:ARG:HG3	2.47	0.46
1:H:153:LEU:HD22	1:H:162:HIS:HD1	1.80	0.46
1:H:222:PHE:HD2	1:H:224:PRO:HD2	1.80	0.46
1:H:389:LEU:HD12	1:H:389:LEU:N	2.30	0.46
1:A:231:TRP:HZ3	1:D:232:HIS:NE2	2.14	0.46
1:A:394:LYS:HG3	1:A:613:SER:HB2	1.96	0.46
1:B:386:LEU:HD12	1:B:386:LEU:N	2.30	0.46
1:C:357:SER:CB	1:C:453:THR:HB	2.41	0.46
1:D:30:LEU:HB2	1:D:43:ILE:HB	1.97	0.46
1:D:118:LYS:HB3	1:D:264:HIS:CD2	2.50	0.46
1:D:144:ARG:HD2	1:D:171:LYS:HB3	1.97	0.46
1:D:390:PHE:N	1:D:390:PHE:CD1	2.84	0.46
1:E:125:LEU:CA	1:E:162:HIS:NE2	2.72	0.46
1:F:17:MET:HE1	1:F:80:PRO:HG2	1.96	0.46
1:F:130:SER:O	1:F:300:PHE:CE1	2.68	0.46
1:G:102:GLY:O	1:G:152:VAL:HA	2.16	0.46
1:G:189:LEU:HD12	1:G:207:SER:HB3	1.97	0.46
1:G:296:ASN:ND2	1:G:302:ALA:HB2	2.31	0.46
1:H:221:PRO:O	1:H:222:PHE:HB3	2.15	0.46
1:A:226:TRP:CG	1:A:227:GLN:N	2.65	0.46
1:A:447:LEU:HD13	1:A:609:TYR:CE1	2.50	0.46
1:A:540:LEU:HD12	1:A:622:ALA:HB2	1.93	0.46
1:A:643:VAL:O	1:A:644:VAL:CG2	2.62	0.46
1:A:646:ARG:C	1:A:647:GLN:CD	2.83	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:115:CYS:O	1:B:263:ASN:HA	2.15	0.46
1:B:390:PHE:N	1:B:390:PHE:CD1	2.83	0.46
1:B:430:TRP:O	1:B:431:GLY:C	2.58	0.46
1:B:434:TRP:O	1:B:435:GLN:C	2.55	0.46
1:B:467:LYS:HD3	1:B:467:LYS:HA	1.75	0.46
1:B:646:ARG:C	1:B:647:GLN:CD	2.83	0.46
1:C:109:ASN:O	1:C:110:GLN:C	2.58	0.46
1:D:422:THR:HG22	1:D:426:LEU:HD11	1.97	0.46
1:D:478:GLN:O	1:D:482:LYS:HB3	2.15	0.46
1:D:643:VAL:O	1:D:644:VAL:CG2	2.62	0.46
1:E:190:ALA:O	1:E:191:PRO:C	2.58	0.46
1:E:594:LEU:O	1:E:598:ILE:HG13	2.15	0.46
1:E:646:ARG:C	1:E:647:GLN:CD	2.83	0.46
1:F:133:LEU:O	1:F:134:ARG:C	2.57	0.46
1:F:390:PHE:N	1:F:390:PHE:CD1	2.83	0.46
1:F:416:ASP:OD1	1:F:416:ASP:N	2.39	0.46
1:G:281:LEU:O	1:G:282:MET:HG2	2.15	0.46
1:G:412:ILE:O	1:G:415:GLN:HB2	2.15	0.46
1:H:234:LYS:O	1:H:235:VAL:O	2.33	0.46
1:H:357:SER:HB3	1:H:453:THR:HA	1.97	0.46
1:A:118:LYS:CB	1:A:264:HIS:O	2.64	0.46
1:A:272:LYS:O	1:A:273:LEU:C	2.58	0.46
1:A:276:TRP:CE3	1:A:277:LEU:CD2	2.98	0.46
1:A:475:GLU:O	1:A:478:GLN:HG2	2.15	0.46
1:C:189:LEU:HD12	1:C:189:LEU:HA	1.67	0.46
1:C:418:LYS:HB3	1:C:420:PRO:HD3	1.97	0.46
1:C:545:VAL:HA	1:C:548:GLN:HG2	1.96	0.46
1:C:610:ASP:O	1:C:613:SER:HB3	2.15	0.46
1:D:146:LEU:HB3	1:D:207:SER:HB2	1.97	0.46
1:D:270:ALA:HB1	1:D:274:GLU:OE2	2.16	0.46
1:D:533:LEU:HD23	1:D:629:VAL:HG13	1.97	0.46
1:E:222:PHE:HD2	1:E:224:PRO:HD2	1.80	0.46
1:E:272:LYS:O	1:E:273:LEU:C	2.57	0.46
1:E:350:GLU:CG	1:E:391:ASP:HB2	2.45	0.46
1:E:412:ILE:O	1:E:415:GLN:HB2	2.16	0.46
1:E:666:ARG:HG3	1:F:503:PHE:HE1	1.81	0.46
1:F:102:GLY:O	1:F:152:VAL:HA	2.15	0.46
1:F:191:PRO:HG3	1:F:234:LYS:HZ2	1.79	0.46
1:F:216:ILE:HG21	1:F:273:LEU:CD1	2.46	0.46
1:F:412:ILE:O	1:F:415:GLN:HB2	2.16	0.46
1:G:249:LEU:HD23	1:G:253:VAL:H	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:42:ALA:HB3	1:H:96:MET:HB2	1.97	0.46
1:H:102:GLY:O	1:H:152:VAL:HA	2.15	0.46
1:H:144:ARG:HD2	1:H:171:LYS:HB3	1.96	0.46
1:H:571:TYR:CE2	1:H:590:MET:SD	3.07	0.46
1:A:118:LYS:CD	1:A:265:LEU:HA	2.45	0.46
1:A:410:VAL:O	1:A:411:SER:C	2.59	0.46
1:A:497:TYR:CE2	1:A:511:LEU:HD22	2.50	0.46
1:B:361:LEU:HD11	1:B:386:LEU:HD23	1.97	0.46
1:C:422:THR:HG22	1:C:426:LEU:HD11	1.97	0.46
1:C:438:ARG:HG2	1:C:564:GLU:HG3	1.98	0.46
1:C:506:THR:HG22	1:C:507:SER:H	1.81	0.46
1:D:55:ARG:HE	1:D:55:ARG:HB2	1.53	0.46
1:D:198:LYS:C	1:D:200:THR:N	2.74	0.46
1:D:506:THR:HG22	1:D:507:SER:H	1.80	0.46
1:D:569:ASP:HB3	1:D:573:ARG:HD3	1.98	0.46
1:E:144:ARG:HD2	1:E:171:LYS:HB3	1.97	0.46
1:E:216:ILE:HG21	1:E:273:LEU:HD12	1.96	0.46
1:E:527:GLU:C	1:E:529:GLU:H	2.23	0.46
1:E:547:LEU:CD1	1:E:615:THR:HG21	2.04	0.46
1:F:444:CYS:O	1:F:447:LEU:N	2.47	0.46
1:G:418:LYS:HB3	1:G:420:PRO:HD3	1.96	0.46
1:H:105:ARG:HG2	1:H:109:ASN:ND2	2.30	0.46
1:H:118:LYS:CB	1:H:264:HIS:O	2.63	0.46
1:H:119:GLU:HB3	1:H:121:PRO:CD	2.42	0.46
1:H:186:LEU:C	1:H:188:TYR:H	2.22	0.46
1:H:614:LYS:HD3	1:H:614:LYS:HA	1.80	0.46
1:A:250:THR:C	1:A:251:GLY:O	2.58	0.46
1:A:412:ILE:O	1:A:415:GLN:HB2	2.15	0.46
1:B:74:VAL:HG21	1:B:165:ILE:HA	1.98	0.46
1:B:105:ARG:HG3	1:B:105:ARG:NH1	2.31	0.46
1:B:153:LEU:HD22	1:B:162:HIS:HD1	1.81	0.46
1:C:137:HIS:ND1	1:C:201:VAL:HG13	2.31	0.46
1:C:226:TRP:HD1	1:C:227:GLN:N	2.03	0.46
1:C:235:VAL:CG1	1:C:243:ILE:N	2.71	0.46
1:C:412:ILE:O	1:C:415:GLN:HB2	2.16	0.46
1:C:588:ASN:OD1	1:C:589:ASP:N	2.48	0.46
1:D:16:GLU:HG2	1:D:83:LEU:CD1	2.43	0.46
1:D:187:GLN:HB3	1:D:223:LEU:HD22	1.79	0.46
1:D:430:TRP:O	1:D:431:GLY:C	2.59	0.46
1:D:434:TRP:O	1:D:435:GLN:C	2.56	0.46
1:E:222:PHE:HB3	1:E:255:PHE:HB3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:336:LEU:O	1:E:337:LYS:C	2.57	0.46
1:E:644:VAL:HA	1:E:647:GLN:NE2	2.20	0.46
1:F:213:PHE:O	1:F:214:GLU:C	2.58	0.46
1:F:220:ARG:HB3	1:F:221:PRO:HD2	1.97	0.46
1:F:438:ARG:HG2	1:F:564:GLU:HG3	1.98	0.46
1:F:449:GLN:NE2	1:F:453:THR:CG2	2.79	0.46
1:F:643:VAL:O	1:F:644:VAL:CG2	2.62	0.46
1:G:412:ILE:HG12	1:G:433:ILE:CD1	2.46	0.46
1:H:17:MET:HE1	1:H:80:PRO:HG2	1.97	0.46
1:H:208:PHE:O	1:H:211:LEU:HB3	2.15	0.46
1:H:281:LEU:O	1:H:282:MET:HG2	2.16	0.46
1:H:327:VAL:CG1	1:H:367:LEU:HB2	2.32	0.46
1:H:449:GLN:NE2	1:H:453:THR:CG2	2.78	0.46
1:A:430:TRP:O	1:A:431:GLY:C	2.59	0.46
1:B:16:GLU:C	1:B:17:MET:HG3	2.41	0.46
1:B:606:ILE:O	1:B:607:LEU:C	2.58	0.46
1:C:190:ALA:O	1:C:191:PRO:C	2.58	0.46
1:C:276:TRP:CE3	1:C:277:LEU:CD2	2.98	0.46
1:C:358:GLY:O	1:C:359:LEU:CB	2.60	0.46
1:C:422:THR:CB	1:C:585:GLY:HA3	2.40	0.46
1:C:527:GLU:C	1:C:529:GLU:H	2.24	0.46
1:D:408:GLU:OE2	1:D:408:GLU:HA	2.16	0.46
1:E:21:LEU:HD12	1:E:29:VAL:HG12	1.98	0.46
1:E:72:ASN:O	1:E:164:ILE:HG22	2.16	0.46
1:E:102:GLY:O	1:E:152:VAL:HA	2.15	0.46
1:E:265:LEU:CD2	1:E:269:LEU:CB	2.94	0.46
1:E:322:VAL:CG2	1:E:446:ARG:NH1	2.77	0.46
1:E:452:ARG:HD2	1:E:550:ASN:ND2	2.30	0.46
1:E:497:TYR:CD2	1:E:497:TYR:C	2.94	0.46
1:E:583:THR:O	1:E:584:PRO:C	2.58	0.46
1:E:647:GLN:OE1	1:E:647:GLN:HA	2.16	0.46
1:G:16:GLU:HG2	1:G:83:LEU:CD1	2.44	0.46
1:G:422:THR:HG22	1:G:426:LEU:HD11	1.97	0.46
1:H:74:VAL:CG2	1:H:165:ILE:HA	2.46	0.46
1:H:322:VAL:CG1	1:H:323:HIS:H	2.25	0.46
1:H:390:PHE:CD1	1:H:390:PHE:N	2.83	0.46
1:A:594:LEU:O	1:A:598:ILE:HG13	2.16	0.46
1:A:658:LEU:HD12	1:B:658:LEU:CD1	2.33	0.46
1:B:186:LEU:C	1:B:188:TYR:H	2.22	0.46
1:B:198:LYS:C	1:B:200:THR:N	2.73	0.46
1:B:418:LYS:O	1:B:419:ARG:CB	2.61	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:55:ARG:HE	1:C:55:ARG:HB2	1.54	0.46
1:C:193:LEU:CB	1:C:196:GLN:HE22	2.21	0.46
1:C:210:THR:O	1:C:211:LEU:C	2.59	0.46
1:C:216:ILE:HG21	1:C:273:LEU:CD1	2.46	0.46
1:C:480:LYS:HE3	1:C:527:GLU:CB	2.39	0.46
1:C:497:TYR:CA	1:D:655:TRP:HZ2	2.29	0.46
1:D:153:LEU:HD22	1:D:162:HIS:HD1	1.81	0.46
1:D:281:LEU:C	1:D:282:MET:HG2	2.41	0.46
1:D:362:ASN:C	1:D:364:ALA:N	2.71	0.46
1:D:412:ILE:O	1:D:415:GLN:HB2	2.15	0.46
1:E:478:GLN:HG3	1:E:479:LEU:N	2.30	0.46
1:E:533:LEU:CD2	1:E:629:VAL:CG1	2.88	0.46
1:F:193:LEU:CD2	1:F:231:TRP:CD1	2.97	0.46
1:F:564:GLU:HG2	1:F:564:GLU:O	2.15	0.46
1:F:647:GLN:OE1	1:F:647:GLN:HA	2.15	0.46
1:G:105:ARG:CZ	1:G:149:GLU:OE2	2.64	0.46
1:G:564:GLU:O	1:G:564:GLU:HG2	2.16	0.46
1:G:571:TYR:CE2	1:G:590:MET:CG	2.98	0.46
1:H:117:LEU:O	1:H:122:ILE:HD11	2.14	0.46
1:H:216:ILE:HG21	1:H:273:LEU:HD12	1.96	0.46
1:A:144:ARG:HD2	1:A:171:LYS:HB3	1.97	0.46
1:A:644:VAL:HA	1:A:647:GLN:NE2	2.20	0.46
1:B:540:LEU:HD21	1:B:621:LYS:HD2	1.97	0.46
1:B:647:GLN:OE1	1:B:647:GLN:HA	2.15	0.46
1:C:125:LEU:HD21	1:C:215:CYS:SG	2.56	0.46
1:C:467:LYS:HD3	1:C:467:LYS:HA	1.76	0.46
1:C:569:ASP:HB3	1:C:573:ARG:HD3	1.97	0.46
1:D:402:SER:O	1:D:403:LEU:CB	2.64	0.46
1:E:105:ARG:CZ	1:E:149:GLU:OE2	2.64	0.46
1:E:246:TYR:HB2	1:E:256:SER:HB3	1.98	0.46
1:E:572:ARG:HD3	1:F:573:ARG:HH22	1.80	0.46
1:F:433:ILE:HG23	1:F:594:LEU:HD22	1.97	0.46
1:F:447:LEU:HD12	1:F:605:VAL:HG21	1.98	0.46
1:G:81:ASP:HA	1:G:84:GLN:HE21	1.81	0.46
1:G:210:THR:N	1:G:281:LEU:HD11	2.31	0.46
1:G:359:LEU:H	1:G:460:ARG:NH1	2.14	0.46
1:G:475:GLU:OE2	1:G:637:ARG:CG	2.58	0.46
1:H:296:ASN:ND2	1:H:302:ALA:HB2	2.30	0.46
1:H:323:HIS:HB3	1:H:325:TYR:CE1	2.51	0.46
1:A:125:LEU:HD21	1:A:215:CYS:SG	2.56	0.46
1:A:480:LYS:HZ1	1:A:527:GLU:HB2	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:651:GLN:HE22	1:B:492:ILE:CG2	2.25	0.46
1:B:246:TYR:HB2	1:B:256:SER:HB3	1.98	0.46
1:C:269:LEU:HD22	1:C:272:LYS:HE3	1.97	0.46
1:C:573:ARG:NH1	1:D:573:ARG:NH2	2.10	0.46
1:D:125:LEU:CA	1:D:162:HIS:NE2	2.71	0.46
1:D:497:TYR:CD2	1:D:497:TYR:C	2.93	0.46
1:E:412:ILE:O	1:E:416:ASP:OD1	2.34	0.46
1:E:614:LYS:HA	1:E:614:LYS:HD3	1.81	0.46
1:E:662:CYS:SG	1:F:661:ALA:CB	2.97	0.46
1:F:16:GLU:C	1:F:17:MET:HG3	2.41	0.46
1:F:153:LEU:HD23	1:F:162:HIS:HB3	1.98	0.46
1:F:269:LEU:HD22	1:F:272:LYS:HE3	1.97	0.46
1:F:276:TRP:CE3	1:F:277:LEU:CD2	2.99	0.46
1:F:281:LEU:C	1:F:282:MET:HG2	2.41	0.46
1:G:323:HIS:HB3	1:G:325:TYR:CE1	2.51	0.46
1:G:563:LEU:HD23	1:G:597:ALA:HB2	1.97	0.46
1:H:16:GLU:HG2	1:H:83:LEU:CD1	2.44	0.46
1:H:216:ILE:HG21	1:H:273:LEU:CD1	2.45	0.46
1:A:281:LEU:C	1:A:282:MET:HG2	2.41	0.45
1:A:316:ASN:N	1:A:321:ARG:O	2.49	0.45
1:B:540:LEU:HD21	1:B:621:LYS:HZ2	1.80	0.45
1:C:105:ARG:HG2	1:C:109:ASN:ND2	2.31	0.45
1:C:246:TYR:HB2	1:C:256:SER:HB3	1.98	0.45
1:C:316:ASN:N	1:C:321:ARG:O	2.49	0.45
1:C:527:GLU:C	1:C:529:GLU:N	2.73	0.45
1:D:485:PHE:CD1	1:D:485:PHE:C	2.94	0.45
1:E:469:LYS:NZ	1:E:630:LYS:HD3	2.31	0.45
1:E:469:LYS:HD2	1:E:630:LYS:HG2	1.98	0.45
1:E:666:ARG:HG3	1:F:503:PHE:CE1	2.51	0.45
1:F:222:PHE:HB3	1:F:255:PHE:HB3	1.98	0.45
1:F:246:TYR:HB2	1:F:256:SER:HB3	1.98	0.45
1:F:419:ARG:NH1	1:F:588:ASN:HA	2.32	0.45
1:G:16:GLU:C	1:G:17:MET:HG3	2.41	0.45
1:H:72:ASN:O	1:H:164:ILE:HG22	2.16	0.45
1:H:361:LEU:HD11	1:H:386:LEU:HD23	1.98	0.45
1:A:140:ARG:NH2	1:A:174:ASP:OD2	2.50	0.45
1:A:247:ASP:HB3	1:A:248:ASP:H	1.49	0.45
1:A:336:LEU:O	1:A:337:LYS:C	2.59	0.45
1:B:42:ALA:HB3	1:B:96:MET:HB2	1.97	0.45
1:B:296:ASN:ND2	1:B:302:ALA:HB2	2.31	0.45
1:B:563:LEU:HD23	1:B:597:ALA:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:564:GLU:O	1:B:564:GLU:HG2	2.16	0.45
1:C:222:PHE:HD2	1:C:224:PRO:HD2	1.81	0.45
1:C:440:LEU:HD12	1:C:597:ALA:O	2.17	0.45
1:D:260:PRO:HB3	1:D:273:LEU:HD22	1.98	0.45
1:E:50:LEU:H	1:E:55:ARG:CD	2.29	0.45
1:E:118:LYS:HZ1	1:E:123:ARG:HH12	1.63	0.45
1:F:105:ARG:HG2	1:F:109:ASN:ND2	2.30	0.45
1:F:503:PHE:C	1:F:505:ILE:HG13	2.40	0.45
1:F:570:LEU:CB	1:F:590:MET:CE	2.75	0.45
1:G:193:LEU:CB	1:G:196:GLN:HE22	2.24	0.45
1:H:135:TYR:O	1:H:139:ASN:ND2	2.48	0.45
1:H:198:LYS:HG2	1:H:284:HIS:HA	1.98	0.45
1:H:569:ASP:HB3	1:H:573:ARG:HD3	1.97	0.45
1:A:248:ASP:OD1	1:A:248:ASP:O	2.34	0.45
1:A:560:LEU:HD12	1:A:601:PHE:HB2	1.98	0.45
1:B:81:ASP:HA	1:B:84:GLN:HE21	1.82	0.45
1:B:116:GLY:HA2	1:B:217:THR:O	2.17	0.45
1:B:350:GLU:CG	1:B:391:ASP:HB2	2.44	0.45
1:B:448:LEU:HB2	1:B:608:ILE:HD11	1.97	0.45
1:B:497:TYR:CD2	1:B:497:TYR:C	2.93	0.45
1:C:17:MET:HE1	1:C:80:PRO:HG2	1.99	0.45
1:C:102:GLY:O	1:C:103:ASP:C	2.60	0.45
1:C:225:ASN:OD1	1:C:229:VAL:HG12	2.15	0.45
1:C:250:THR:C	1:C:251:GLY:O	2.58	0.45
1:C:336:LEU:O	1:C:337:LYS:C	2.60	0.45
1:C:455:MET:HE1	1:C:548:GLN:N	2.31	0.45
1:D:120:GLY:C	1:D:123:ARG:H	2.25	0.45
1:D:235:VAL:CG1	1:D:243:ILE:N	2.71	0.45
1:D:416:ASP:HB3	1:D:591:VAL:HG13	1.98	0.45
1:D:646:ARG:C	1:D:647:GLN:CD	2.84	0.45
1:E:224:PRO:HG3	1:E:428:ARG:HH22	1.81	0.45
1:E:249:LEU:HB3	1:E:250:THR:H	1.39	0.45
1:E:250:THR:C	1:E:251:GLY:O	2.58	0.45
1:E:323:HIS:HB3	1:E:325:TYR:CE1	2.52	0.45
1:E:422:THR:HG22	1:E:426:LEU:CD2	2.46	0.45
1:E:497:TYR:CD2	1:E:511:LEU:HD22	2.48	0.45
1:E:651:GLN:O	1:E:652:GLN:C	2.59	0.45
1:F:120:GLY:CA	1:F:123:ARG:HB2	2.47	0.45
1:F:148:PRO:HD2	1:F:149:GLU:OE2	2.16	0.45
1:F:418:LYS:O	1:F:419:ARG:CB	2.61	0.45
1:F:646:ARG:C	1:F:647:GLN:CD	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:312:LEU:O	1:G:324:THR:HG23	2.17	0.45
1:H:210:THR:O	1:H:211:LEU:C	2.60	0.45
1:H:422:THR:HG22	1:H:426:LEU:HD11	1.98	0.45
1:A:222:PHE:CE2	1:A:224:PRO:O	2.70	0.45
1:A:402:SER:HB2	1:A:403:LEU:H	1.67	0.45
1:A:497:TYR:CD2	1:A:497:TYR:C	2.94	0.45
1:A:506:THR:HG22	1:A:507:SER:H	1.80	0.45
1:A:647:GLN:OE1	1:A:647:GLN:HA	2.16	0.45
1:A:665:VAL:HG22	1:B:665:VAL:HG21	1.97	0.45
1:B:102:GLY:O	1:B:103:ASP:C	2.60	0.45
1:B:322:VAL:CG1	1:B:323:HIS:N	2.76	0.45
1:B:416:ASP:OD1	1:B:416:ASP:N	2.39	0.45
1:B:426:LEU:O	1:B:430:TRP:N	2.45	0.45
1:B:443:ASP:O	1:B:446:ARG:CB	2.65	0.45
1:C:284:HIS:HE1	1:E:338:SER:OG	1.99	0.45
1:C:530:VAL:CA	1:C:533:LEU:HD12	2.30	0.45
1:C:571:TYR:CE2	1:C:590:MET:HG3	2.52	0.45
1:D:140:ARG:NH2	1:D:174:ASP:OD2	2.49	0.45
1:D:216:ILE:HG21	1:D:273:LEU:CD1	2.46	0.45
1:D:249:LEU:HB3	1:D:250:THR:H	1.37	0.45
1:D:250:THR:C	1:D:251:GLY:O	2.59	0.45
1:E:412:ILE:HG12	1:E:433:ILE:CD1	2.46	0.45
1:E:458:LEU:CD1	1:E:544:SER:HB3	2.47	0.45
1:F:135:TYR:O	1:F:139:ASN:ND2	2.47	0.45
1:F:412:ILE:O	1:F:416:ASP:OD1	2.34	0.45
1:F:433:ILE:HG21	1:F:571:TYR:OH	2.15	0.45
1:F:436:THR:O	1:F:440:LEU:HG	2.15	0.45
1:H:118:LYS:HD3	1:H:265:LEU:HD12	1.97	0.45
1:H:153:LEU:HD23	1:H:162:HIS:HB3	1.97	0.45
1:A:213:PHE:O	1:A:214:GLU:C	2.59	0.45
1:A:296:ASN:ND2	1:A:302:ALA:HB2	2.30	0.45
1:A:402:SER:HA	1:A:609:TYR:CG	2.51	0.45
1:A:412:ILE:HG12	1:A:433:ILE:CD1	2.45	0.45
1:A:484:ASP:O	1:A:485:PHE:C	2.57	0.45
1:D:42:ALA:HB3	1:D:96:MET:HB2	1.97	0.45
1:D:297:VAL:HG23	1:D:301:GLN:HE21	1.82	0.45
1:D:402:SER:HB3	1:D:609:TYR:HB2	1.99	0.45
1:D:580:ASP:CG	1:D:580:ASP:O	2.60	0.45
1:E:102:GLY:O	1:E:103:ASP:C	2.59	0.45
1:E:117:LEU:O	1:E:122:ILE:HD11	2.16	0.45
1:E:462:ASN:ND2	1:E:540:LEU:HB3	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:470:ASN:HD22	1:F:470:ASN:N	2.15	0.45
1:F:506:THR:HG22	1:F:507:SER:H	1.81	0.45
1:F:606:ILE:O	1:F:607:LEU:C	2.58	0.45
1:F:651:GLN:O	1:F:652:GLN:C	2.59	0.45
1:G:17:MET:HE1	1:G:80:PRO:HG2	1.98	0.45
1:G:190:ALA:O	1:G:191:PRO:C	2.59	0.45
1:G:350:GLU:OE2	1:G:391:ASP:O	2.33	0.45
1:G:475:GLU:CD	1:G:636:MET:HE1	2.39	0.45
1:G:569:ASP:HB3	1:G:573:ARG:HD3	1.98	0.45
1:H:81:ASP:HA	1:H:84:GLN:HE21	1.81	0.45
1:H:235:VAL:CG1	1:H:243:ILE:N	2.73	0.45
1:H:373:ASP:OD1	1:H:374:CYS:N	2.49	0.45
1:A:134:ARG:HD2	1:A:300:PHE:CE1	2.52	0.45
1:A:438:ARG:CG	1:A:564:GLU:HG3	2.46	0.45
1:A:482:LYS:C	1:A:484:ASP:N	2.74	0.45
1:B:102:GLY:CA	1:B:152:VAL:HG13	2.47	0.45
1:B:134:ARG:HD2	1:B:300:PHE:CE1	2.52	0.45
1:B:485:PHE:CD1	1:B:485:PHE:C	2.95	0.45
1:C:72:ASN:H	1:C:163:LYS:HE2	1.82	0.45
1:C:220:ARG:HB3	1:C:221:PRO:HD2	1.98	0.45
1:C:277:LEU:C	1:C:279:CYS:N	2.74	0.45
1:C:497:TYR:CD2	1:C:497:TYR:C	2.93	0.45
1:D:84:GLN:HB3	1:D:85:LYS:H	1.50	0.45
1:D:109:ASN:O	1:D:110:GLN:C	2.60	0.45
1:D:189:LEU:HD12	1:D:189:LEU:HA	1.63	0.45
1:D:276:TRP:CE3	1:D:277:LEU:CD2	3.00	0.45
1:D:475:GLU:O	1:D:478:GLN:HG2	2.17	0.45
1:E:103:ASP:O	1:E:105:ARG:N	2.50	0.45
1:E:115:CYS:CB	1:E:435:GLN:HG3	2.46	0.45
1:E:410:VAL:O	1:E:411:SER:C	2.59	0.45
1:E:482:LYS:C	1:E:484:ASP:H	2.23	0.45
1:F:153:LEU:HD22	1:F:162:HIS:HD1	1.81	0.45
1:F:270:ALA:HB1	1:F:274:GLU:OE2	2.16	0.45
1:F:545:VAL:HA	1:F:548:GLN:HG2	1.99	0.45
1:G:234:LYS:O	1:G:235:VAL:O	2.35	0.45
1:H:125:LEU:HD21	1:H:215:CYS:SG	2.56	0.45
1:H:297:VAL:HG23	1:H:301:GLN:NE2	2.32	0.45
1:A:105:ARG:CZ	1:A:149:GLU:OE2	2.65	0.45
1:A:130:SER:O	1:A:300:PHE:CE1	2.69	0.45
1:A:254:LYS:N	1:A:255:PHE:CE1	2.85	0.45
1:A:409:SER:CB	1:A:412:ILE:CD1	2.92	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:119:GLU:HB3	1:B:121:PRO:CD	2.41	0.45
1:B:297:VAL:HG23	1:B:301:GLN:HE21	1.82	0.45
1:B:408:GLU:OE2	1:B:408:GLU:HA	2.16	0.45
1:B:418:LYS:HB3	1:B:419:ARG:H	1.67	0.45
1:B:500:GLN:HB2	1:B:505:ILE:HG23	1.98	0.45
1:B:501:MET:HA	1:B:505:ILE:CD1	2.39	0.45
1:C:198:LYS:C	1:C:200:THR:N	2.75	0.45
1:C:654:LEU:HD22	1:D:654:LEU:HD21	1.74	0.45
1:D:260:PRO:HB2	1:D:273:LEU:CD1	2.45	0.45
1:F:103:ASP:O	1:F:105:ARG:N	2.50	0.45
1:G:297:VAL:HG23	1:G:301:GLN:HE21	1.81	0.45
1:H:26:PHE:CE2	1:H:181:GLU:CG	2.99	0.45
1:H:102:GLY:CA	1:H:152:VAL:HG13	2.47	0.45
1:H:426:LEU:O	1:H:430:TRP:N	2.43	0.45
1:A:16:GLU:C	1:A:17:MET:HG3	2.41	0.45
1:A:81:ASP:HA	1:A:84:GLN:HE21	1.82	0.45
1:B:21:LEU:HD12	1:B:29:VAL:HG12	1.99	0.45
1:B:276:TRP:HE3	1:B:277:LEU:HD23	1.81	0.45
1:B:281:LEU:C	1:B:282:MET:HG2	2.42	0.45
1:B:422:THR:HG22	1:B:426:LEU:HD11	1.98	0.45
1:B:430:TRP:CE3	1:B:574:LEU:HD22	2.50	0.45
1:B:470:ASN:HD22	1:B:470:ASN:N	2.14	0.45
1:B:528:ARG:HA	1:B:530:VAL:HG22	1.99	0.45
1:C:373:ASP:O	1:C:374:CYS:CB	2.65	0.45
1:D:16:GLU:C	1:D:17:MET:HG3	2.42	0.45
1:D:135:TYR:O	1:D:139:ASN:ND2	2.49	0.45
1:E:253:VAL:HB	1:E:255:PHE:CE1	2.52	0.45
1:E:276:TRP:CE3	1:E:277:LEU:CD2	3.00	0.45
1:E:276:TRP:CZ2	1:E:280:MET:HG3	2.52	0.45
1:E:297:VAL:HG23	1:E:301:GLN:NE2	2.31	0.45
1:E:455:MET:HE1	1:E:548:GLN:N	2.32	0.45
1:E:580:ASP:O	1:E:580:ASP:CG	2.60	0.45
1:G:111:PHE:HE2	1:G:572:ARG:HE	1.64	0.45
1:G:124:THR:O	1:G:127:SER:N	2.48	0.45
1:G:206:TRP:CD1	1:G:207:SER:N	2.85	0.45
1:H:21:LEU:HD12	1:H:29:VAL:HG12	1.99	0.45
1:H:297:VAL:HG23	1:H:301:GLN:HE21	1.81	0.45
1:A:118:LYS:HD3	1:A:265:LEU:HA	1.99	0.45
1:A:190:ALA:O	1:A:191:PRO:C	2.60	0.45
1:A:222:PHE:HB2	1:A:255:PHE:HD2	1.82	0.45
1:A:291:ASP:HA	1:A:292:PRO:HD3	1.83	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:402:SER:O	1:A:403:LEU:CB	2.64	0.45
1:A:566:GLN:HG2	1:A:593:LEU:HD11	1.99	0.45
1:B:153:LEU:HD23	1:B:162:HIS:HB3	1.98	0.45
1:B:277:LEU:C	1:B:279:CYS:N	2.74	0.45
1:B:429:VAL:O	1:B:433:ILE:HG12	2.17	0.45
1:B:569:ASP:HB3	1:B:573:ARG:HD3	1.99	0.45
1:C:222:PHE:HB3	1:C:255:PHE:HB3	1.99	0.45
1:C:254:LYS:C	1:C:255:PHE:CD1	2.95	0.45
1:C:485:PHE:CZ	1:D:485:PHE:CG	3.04	0.45
1:C:580:ASP:CG	1:C:580:ASP:O	2.60	0.45
1:C:660:ILE:C	1:C:662:CYS:N	2.65	0.45
1:D:120:GLY:CA	1:D:123:ARG:HB2	2.47	0.45
1:D:134:ARG:CA	1:D:300:PHE:CZ	2.97	0.45
1:D:246:TYR:HB2	1:D:256:SER:HB3	1.97	0.45
1:D:484:ASP:C	1:D:486:PHE:H	2.22	0.45
1:D:488:SER:O	1:D:492:ILE:HG22	2.17	0.45
1:E:661:ALA:CB	1:F:662:CYS:SG	2.99	0.45
1:F:42:ALA:HB3	1:F:96:MET:HB2	1.98	0.45
1:F:50:LEU:H	1:F:55:ARG:CD	2.30	0.45
1:F:222:PHE:CE2	1:F:224:PRO:O	2.70	0.45
1:F:443:ASP:O	1:F:446:ARG:N	2.50	0.45
1:G:84:GLN:HB3	1:G:85:LYS:H	1.51	0.45
1:G:137:HIS:ND1	1:G:201:VAL:HG13	2.32	0.45
1:G:580:ASP:O	1:G:580:ASP:CG	2.58	0.45
1:H:70:HIS:HB2	1:H:135:TYR:CD2	2.52	0.45
1:H:105:ARG:CZ	1:H:149:GLU:OE2	2.65	0.45
1:A:494:LEU:HD12	1:A:514:TRP:CE3	2.48	0.45
1:A:510:LEU:HB2	1:A:657:LEU:HD13	1.99	0.45
1:A:569:ASP:HB3	1:A:573:ARG:HD3	1.98	0.45
1:A:628:LYS:C	1:A:630:LYS:H	2.25	0.45
1:B:109:ASN:O	1:B:110:GLN:C	2.59	0.45
1:B:412:ILE:O	1:B:415:GLN:HB2	2.17	0.45
1:B:530:VAL:CA	1:B:533:LEU:HD12	2.32	0.45
1:C:21:LEU:HD12	1:C:29:VAL:HG12	1.99	0.45
1:D:422:THR:HG22	1:D:426:LEU:CD2	2.44	0.45
1:D:430:TRP:HA	1:D:571:TYR:CE2	2.52	0.45
1:D:521:VAL:HA	1:D:524:CYS:HG	1.75	0.45
1:E:124:THR:O	1:E:127:SER:N	2.50	0.45
1:E:478:GLN:O	1:E:482:LYS:HB3	2.15	0.45
1:E:494:LEU:HD13	1:E:514:TRP:HB3	1.99	0.45
1:E:665:VAL:HG22	1:F:665:VAL:CG1	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:121:PRO:HA	1:F:124:THR:OG1	2.17	0.45
1:F:198:LYS:C	1:F:200:THR:H	2.25	0.45
1:F:443:ASP:C	1:F:446:ARG:HB2	2.39	0.45
1:F:455:MET:HE3	1:F:455:MET:HB2	1.93	0.45
1:F:644:VAL:HA	1:F:647:GLN:NE2	2.20	0.45
1:G:18:LYS:HD2	1:G:33:ILE:HB	1.99	0.45
1:G:246:TYR:HB2	1:G:256:SER:HB3	1.99	0.45
1:H:410:VAL:O	1:H:411:SER:C	2.60	0.45
1:H:467:LYS:HD3	1:H:467:LYS:HA	1.74	0.45
1:A:213:PHE:HD2	1:A:214:GLU:N	2.15	0.44
1:B:105:ARG:CZ	1:B:149:GLU:OE2	2.66	0.44
1:B:233:GLY:O	1:B:235:VAL:N	2.50	0.44
1:B:323:HIS:HB3	1:B:325:TYR:CE1	2.52	0.44
1:B:436:THR:O	1:B:440:LEU:HG	2.17	0.44
1:C:18:LYS:HD2	1:C:33:ILE:HB	1.98	0.44
1:C:206:TRP:CD1	1:C:207:SER:N	2.85	0.44
1:C:296:ASN:CG	1:C:297:VAL:N	2.75	0.44
1:D:100:GLU:H	1:D:154:GLN:HG3	1.82	0.44
1:D:222:PHE:CE2	1:D:225:ASN:CB	2.89	0.44
1:D:435:GLN:O	1:D:439:ALA:N	2.50	0.44
1:E:269:LEU:C	1:E:271:GLY:N	2.70	0.44
1:E:573:ARG:HH12	1:F:573:ARG:HH12	1.65	0.44
1:E:606:ILE:O	1:E:607:LEU:C	2.61	0.44
1:F:81:ASP:HA	1:F:84:GLN:HE21	1.82	0.44
1:F:109:ASN:O	1:F:110:GLN:C	2.60	0.44
1:F:422:THR:HG22	1:F:426:LEU:HD11	1.98	0.44
1:G:249:LEU:HB3	1:G:250:THR:H	1.39	0.44
1:G:250:THR:C	1:G:251:GLY:O	2.60	0.44
1:H:409:SER:CB	1:H:412:ILE:CD1	2.93	0.44
1:H:419:ARG:HA	1:H:587:SER:CB	2.47	0.44
1:A:17:MET:HE1	1:A:80:PRO:HG2	1.99	0.44
1:B:234:LYS:O	1:B:235:VAL:O	2.35	0.44
1:C:272:LYS:HG2	1:C:273:LEU:HA	1.99	0.44
1:C:387:ILE:CD1	1:C:450:GLY:N	2.80	0.44
1:D:18:LYS:HD2	1:D:33:ILE:HB	1.99	0.44
1:D:296:ASN:ND2	1:D:302:ALA:HB2	2.32	0.44
1:E:189:LEU:HD12	1:E:207:SER:HB3	1.99	0.44
1:E:536:LYS:CG	1:E:625:LEU:HD13	2.47	0.44
1:E:564:GLU:O	1:E:564:GLU:HG2	2.18	0.44
1:F:193:LEU:HD22	1:F:231:TRP:NE1	2.32	0.44
1:F:291:ASP:HA	1:F:292:PRO:HD3	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:117:LEU:O	1:G:122:ILE:HD11	2.16	0.44
1:G:222:PHE:CE2	1:G:224:PRO:O	2.70	0.44
1:G:533:LEU:CD2	1:G:633:MET:HE3	2.46	0.44
1:H:16:GLU:C	1:H:17:MET:HG3	2.42	0.44
1:H:18:LYS:HD2	1:H:33:ILE:HB	1.99	0.44
1:H:105:ARG:HG3	1:H:105:ARG:NH1	2.33	0.44
1:H:222:PHE:HB3	1:H:255:PHE:HB3	1.99	0.44
1:A:26:PHE:HE2	1:A:181:GLU:OE1	2.00	0.44
1:B:434:TRP:CZ3	1:B:568:ARG:CB	2.97	0.44
1:B:567:ALA:HA	1:B:590:MET:HE1	1.99	0.44
1:C:153:LEU:HD23	1:C:162:HIS:HB3	2.00	0.44
1:C:234:LYS:O	1:C:235:VAL:O	2.35	0.44
1:C:361:LEU:HD23	1:C:361:LEU:HA	1.87	0.44
1:D:269:LEU:HD22	1:D:272:LYS:HE3	1.99	0.44
1:D:570:LEU:HD22	1:D:590:MET:HE2	1.96	0.44
1:E:254:LYS:C	1:E:255:PHE:CD1	2.95	0.44
1:E:316:ASN:N	1:E:321:ARG:O	2.50	0.44
1:E:492:ILE:HD13	1:F:651:GLN:NE2	2.22	0.44
1:E:665:VAL:CG2	1:F:665:VAL:HG21	2.45	0.44
1:F:389:LEU:N	1:F:389:LEU:HD12	2.32	0.44
1:F:503:PHE:C	1:F:505:ILE:N	2.74	0.44
1:F:530:VAL:CA	1:F:533:LEU:HD12	2.30	0.44
1:F:580:ASP:CG	1:F:580:ASP:O	2.60	0.44
1:G:260:PRO:HB2	1:G:273:LEU:CD1	2.47	0.44
1:A:102:GLY:CA	1:A:152:VAL:HG13	2.47	0.44
1:A:153:LEU:HD23	1:A:162:HIS:HB3	1.98	0.44
1:A:153:LEU:HD22	1:A:162:HIS:HD1	1.83	0.44
1:B:412:ILE:O	1:B:416:ASP:OD1	2.36	0.44
1:B:484:ASP:O	1:B:485:PHE:C	2.61	0.44
1:B:506:THR:HG22	1:B:507:SER:H	1.82	0.44
1:C:140:ARG:NH2	1:C:174:ASP:OD2	2.51	0.44
1:C:390:PHE:N	1:C:390:PHE:CD1	2.85	0.44
1:D:100:GLU:N	1:D:154:GLN:HG3	2.31	0.44
1:D:105:ARG:CZ	1:D:149:GLU:OE2	2.66	0.44
1:D:153:LEU:HD23	1:D:162:HIS:HB3	1.99	0.44
1:D:222:PHE:HD2	1:D:224:PRO:HD2	1.83	0.44
1:D:254:LYS:N	1:D:255:PHE:CE1	2.85	0.44
1:F:430:TRP:HB3	1:F:571:TYR:CD2	2.47	0.44
1:F:482:LYS:C	1:F:484:ASP:N	2.75	0.44
1:G:307:LEU:O	1:G:307:LEU:HD23	2.18	0.44
1:H:422:THR:HB	1:H:585:GLY:HA2	1.96	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:436:THR:O	1:H:440:LEU:HG	2.17	0.44
1:A:21:LEU:HD12	1:A:29:VAL:HG12	1.99	0.44
1:A:222:PHE:HB3	1:A:255:PHE:HB3	1.99	0.44
1:A:234:LYS:O	1:A:235:VAL:O	2.36	0.44
1:B:118:LYS:CG	1:B:118:LYS:O	2.64	0.44
1:C:426:LEU:O	1:C:430:TRP:N	2.43	0.44
1:D:81:ASP:HA	1:D:84:GLN:HE21	1.83	0.44
1:D:436:THR:O	1:D:440:LEU:HG	2.17	0.44
1:D:590:MET:HE1	1:D:593:LEU:HD12	2.00	0.44
1:E:16:GLU:C	1:E:17:MET:HG3	2.43	0.44
1:E:104:LEU:N	1:E:151:ILE:O	2.35	0.44
1:E:475:GLU:HG2	1:E:636:MET:HE1	2.00	0.44
1:E:484:ASP:O	1:E:485:PHE:C	2.58	0.44
1:F:18:LYS:HZ2	1:F:33:ILE:HG21	1.81	0.44
1:F:140:ARG:NH2	1:F:174:ASP:OD2	2.50	0.44
1:F:297:VAL:HG23	1:F:301:GLN:HE21	1.82	0.44
1:F:467:LYS:HA	1:F:467:LYS:HD3	1.75	0.44
1:G:105:ARG:HG3	1:G:105:ARG:NH1	2.33	0.44
1:G:120:GLY:CA	1:G:123:ARG:HB2	2.47	0.44
1:H:271:GLY:HA2	1:H:275:ARG:NH2	2.32	0.44
1:H:312:LEU:HA	1:H:312:LEU:HD23	1.53	0.44
1:H:316:ASN:O	1:H:317:MET:HG2	2.18	0.44
1:H:455:MET:HE3	1:H:455:MET:HB2	1.92	0.44
1:H:545:VAL:HA	1:H:548:GLN:HG2	1.98	0.44
1:A:148:PRO:HD2	1:A:149:GLU:OE2	2.18	0.44
1:A:190:ALA:HB2	1:A:206:TRP:CG	2.53	0.44
1:A:312:LEU:O	1:A:324:THR:HG23	2.18	0.44
1:A:579:ARG:HA	1:A:582:ARG:NH2	2.33	0.44
1:B:102:GLY:HA3	1:B:152:VAL:HG13	1.99	0.44
1:B:185:THR:CG2	1:B:187:GLN:CG	2.81	0.44
1:C:72:ASN:O	1:C:164:ILE:HG22	2.18	0.44
1:C:124:THR:O	1:C:127:SER:N	2.50	0.44
1:C:346:ILE:HG23	1:C:346:ILE:O	2.18	0.44
1:C:394:LYS:HE3	1:C:609:TYR:O	2.17	0.44
1:C:438:ARG:HG2	1:C:564:GLU:OE1	2.18	0.44
1:C:459:LEU:HD12	1:C:548:GLN:HB3	2.00	0.44
1:D:17:MET:HE1	1:D:80:PRO:HG2	1.98	0.44
1:D:253:VAL:HB	1:D:255:PHE:CE1	2.53	0.44
1:D:269:LEU:C	1:D:271:GLY:N	2.71	0.44
1:D:297:VAL:HG23	1:D:301:GLN:NE2	2.33	0.44
1:D:438:ARG:CG	1:D:564:GLU:CG	2.90	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:579:ARG:HA	1:D:582:ARG:NH2	2.33	0.44
1:F:21:LEU:HD12	1:F:29:VAL:HG12	1.99	0.44
1:F:187:GLN:CB	1:F:223:LEU:CD2	2.76	0.44
1:F:480:LYS:HE3	1:F:527:GLU:HB2	1.99	0.44
1:G:191:PRO:HG3	1:G:234:LYS:HZ2	1.80	0.44
1:G:254:LYS:N	1:G:255:PHE:CE1	2.86	0.44
1:G:260:PRO:HB3	1:G:273:LEU:HD22	1.99	0.44
1:H:412:ILE:HG12	1:H:433:ILE:HD13	1.99	0.44
1:A:118:LYS:CG	1:A:118:LYS:O	2.63	0.44
1:A:226:TRP:HD1	1:A:227:GLN:N	2.08	0.44
1:A:339:TRP:HA	1:A:342:GLN:CB	2.36	0.44
1:A:350:GLU:CG	1:A:391:ASP:HB2	2.47	0.44
1:B:124:THR:O	1:B:127:SER:N	2.51	0.44
1:B:437:ILE:HG13	1:B:594:LEU:HD12	1.99	0.44
1:C:120:GLY:CA	1:C:123:ARG:HB2	2.47	0.44
1:C:260:PRO:C	1:C:261:THR:HG1	2.26	0.44
1:C:493:ASP:HB3	1:C:514:TRP:CH2	2.52	0.44
1:C:547:LEU:HD22	1:C:611:GLN:CG	2.48	0.44
1:C:650:ARG:HA	1:C:650:ARG:HD3	1.70	0.44
1:C:651:GLN:HE21	1:D:492:ILE:CG2	2.23	0.44
1:E:189:LEU:HD12	1:E:189:LEU:HA	1.66	0.44
1:E:312:LEU:O	1:E:324:THR:HG23	2.17	0.44
1:E:449:GLN:NE2	1:E:453:THR:CG2	2.81	0.44
1:F:222:PHE:HD2	1:F:224:PRO:HD2	1.82	0.44
1:F:253:VAL:HB	1:F:255:PHE:CE1	2.53	0.44
1:F:497:TYR:CD2	1:F:497:TYR:C	2.96	0.44
1:F:569:ASP:HB3	1:F:573:ARG:HD3	1.98	0.44
1:G:312:LEU:HD23	1:G:312:LEU:HA	1.49	0.44
1:G:387:ILE:HD13	1:G:450:GLY:CA	2.47	0.44
1:H:73:VAL:HB	1:H:164:ILE:HG23	1.99	0.44
1:H:134:ARG:CB	1:H:300:PHE:CE1	2.91	0.44
1:H:387:ILE:CD1	1:H:450:GLY:HA2	2.47	0.44
1:H:580:ASP:CG	1:H:580:ASP:O	2.60	0.44
1:A:102:GLY:O	1:A:103:ASP:C	2.60	0.44
1:A:103:ASP:O	1:A:105:ARG:N	2.50	0.44
1:A:286:ARG:CG	1:A:286:ARG:HH11	2.30	0.44
1:A:485:PHE:C	1:A:485:PHE:CD1	2.94	0.44
1:A:511:LEU:HD21	1:A:515:ARG:NH2	2.32	0.44
1:A:632:VAL:HB	1:A:633:MET:HE2	1.99	0.44
1:B:73:VAL:HB	1:B:164:ILE:HG23	2.00	0.44
1:B:590:MET:HE1	1:B:593:LEU:HD12	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:121:PRO:HA	1:C:124:THR:OG1	2.18	0.44
1:C:249:LEU:HB3	1:C:250:THR:H	1.42	0.44
1:C:494:LEU:HD12	1:C:514:TRP:CE3	2.38	0.44
1:D:131:SER:C	1:D:134:ARG:HB3	2.43	0.44
1:D:222:PHE:HB3	1:D:255:PHE:HB3	1.99	0.44
1:D:412:ILE:HG12	1:D:433:ILE:HD13	1.99	0.44
1:E:81:ASP:HA	1:E:84:GLN:HE21	1.82	0.44
1:E:195:GLU:O	1:E:196:GLN:HB2	2.18	0.44
1:E:389:LEU:HD12	1:E:389:LEU:N	2.32	0.44
1:F:18:LYS:HD2	1:F:33:ILE:HB	2.00	0.44
1:F:486:PHE:HZ	1:F:517:MET:CE	2.30	0.44
1:G:222:PHE:HD2	1:G:224:PRO:HD2	1.83	0.44
1:H:143:HIS:NE2	1:H:167:LEU:HB2	2.33	0.44
1:H:319:SER:C	1:H:321:ARG:N	2.65	0.44
1:A:16:GLU:HB3	1:A:17:MET:H	1.71	0.44
1:A:18:LYS:HD2	1:A:33:ILE:HB	2.00	0.44
1:A:528:ARG:HA	1:A:530:VAL:HG22	2.00	0.44
1:A:580:ASP:O	1:A:580:ASP:CG	2.61	0.44
1:B:18:LYS:HD2	1:B:33:ILE:HB	2.00	0.44
1:B:297:VAL:HG23	1:B:301:GLN:NE2	2.33	0.44
1:B:479:LEU:HD12	1:B:640:GLU:CB	2.45	0.44
1:B:646:ARG:C	1:B:647:GLN:OE1	2.61	0.44
1:B:649:LYS:HA	1:B:652:GLN:HB3	2.00	0.44
1:C:195:GLU:O	1:C:196:GLN:HB2	2.18	0.44
1:C:590:MET:HE1	1:C:593:LEU:HD12	1.98	0.44
1:D:105:ARG:HG2	1:D:109:ASN:ND2	2.32	0.44
1:D:134:ARG:HD2	1:D:300:PHE:CE1	2.53	0.44
1:D:448:LEU:HB2	1:D:608:ILE:HD11	1.99	0.44
1:D:560:LEU:HD23	1:D:560:LEU:C	2.43	0.44
1:F:84:GLN:HB3	1:F:85:LYS:H	1.50	0.44
1:F:103:ASP:O	1:F:104:LEU:C	2.61	0.44
1:F:225:ASN:OD1	1:F:229:VAL:HG12	2.18	0.44
1:F:316:ASN:O	1:F:317:MET:HG2	2.18	0.44
1:G:103:ASP:O	1:G:105:ARG:N	2.51	0.44
1:G:222:PHE:HB3	1:G:255:PHE:HB3	2.00	0.44
1:H:68:LEU:HD11	1:H:141:ILE:HD12	1.98	0.44
1:H:102:GLY:O	1:H:103:ASP:C	2.61	0.44
1:H:120:GLY:CA	1:H:123:ARG:HB2	2.47	0.44
1:H:261:THR:HB	1:H:262:PRO:HD2	2.00	0.44
1:H:316:ASN:N	1:H:321:ARG:O	2.51	0.44
1:H:434:TRP:CZ3	1:H:568:ARG:CB	2.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:560:LEU:CD1	1:H:601:PHE:HB2	2.48	0.44
1:A:579:ARG:NH1	1:D:580:ASP:CG	2.76	0.43
1:A:607:LEU:HD23	1:A:607:LEU:HA	1.88	0.43
1:B:216:ILE:HG21	1:B:273:LEU:CD1	2.48	0.43
1:B:438:ARG:HH11	1:B:568:ARG:HH21	1.63	0.43
1:B:560:LEU:HD23	1:B:560:LEU:C	2.44	0.43
1:C:105:ARG:CZ	1:C:149:GLU:OE2	2.65	0.43
1:C:118:LYS:CG	1:C:118:LYS:O	2.65	0.43
1:C:118:LYS:CB	1:C:264:HIS:C	2.91	0.43
1:C:314:VAL:C	1:C:315:MET:O	2.57	0.43
1:C:323:HIS:HB3	1:C:325:TYR:CE1	2.53	0.43
1:C:333:LEU:O	1:C:336:LEU:N	2.51	0.43
1:D:323:HIS:HB3	1:D:325:TYR:CE1	2.52	0.43
1:D:339:TRP:HA	1:D:342:GLN:CB	2.38	0.43
1:E:628:LYS:C	1:E:630:LYS:H	2.26	0.43
1:F:297:VAL:HG23	1:F:301:GLN:NE2	2.33	0.43
1:F:434:TRP:HZ3	1:F:568:ARG:CB	2.30	0.43
1:F:438:ARG:HG2	1:F:564:GLU:CG	2.48	0.43
1:F:471:SER:C	1:F:473:THR:N	2.76	0.43
1:H:171:LYS:O	1:H:171:LYS:CG	2.60	0.43
1:H:233:GLY:O	1:H:235:VAL:N	2.52	0.43
1:H:422:THR:CB	1:H:585:GLY:C	2.91	0.43
1:H:430:TRP:O	1:H:431:GLY:C	2.61	0.43
1:A:105:ARG:HG3	1:A:105:ARG:NH1	2.33	0.43
1:A:462:ASN:HD21	1:A:540:LEU:CB	2.29	0.43
1:A:580:ASP:CG	1:D:579:ARG:NH2	2.75	0.43
1:B:84:GLN:HB3	1:B:85:LYS:H	1.50	0.43
1:B:216:ILE:HG21	1:B:273:LEU:HD12	1.99	0.43
1:B:571:TYR:CE2	1:B:590:MET:CG	3.00	0.43
1:C:81:ASP:HA	1:C:84:GLN:HE21	1.83	0.43
1:C:338:SER:OG	1:C:339:TRP:N	2.52	0.43
1:C:350:GLU:CG	1:C:391:ASP:HB2	2.48	0.43
1:C:480:LYS:HZ2	1:C:525:GLY:C	2.25	0.43
1:D:50:LEU:H	1:D:55:ARG:CD	2.30	0.43
1:D:57:ARG:NE	1:D:177:GLU:O	2.51	0.43
1:D:233:GLY:O	1:D:235:VAL:N	2.49	0.43
1:D:502:GLU:OE1	1:D:502:GLU:N	2.51	0.43
1:E:153:LEU:HD23	1:E:162:HIS:HB3	1.99	0.43
1:E:247:ASP:HB3	1:E:248:ASP:H	1.52	0.43
1:E:358:GLY:O	1:E:359:LEU:CB	2.60	0.43
1:F:441:LYS:HD2	1:F:561:ASP:OD1	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:143:HIS:NE2	1:G:167:LEU:HB2	2.34	0.43
1:G:144:ARG:HD2	1:G:171:LYS:HB2	2.00	0.43
1:G:297:VAL:HG23	1:G:301:GLN:NE2	2.33	0.43
1:G:430:TRP:CD2	1:G:574:LEU:HD22	2.53	0.43
1:H:212:ALA:O	1:H:215:CYS:N	2.51	0.43
1:H:470:ASN:HD22	1:H:470:ASN:N	2.16	0.43
1:A:102:GLY:HA3	1:A:152:VAL:HG13	1.99	0.43
1:A:121:PRO:HA	1:A:124:THR:OG1	2.19	0.43
1:A:260:PRO:HB3	1:A:273:LEU:HD22	2.00	0.43
1:A:296:ASN:CG	1:A:297:VAL:N	2.77	0.43
1:A:316:ASN:O	1:A:317:MET:HG2	2.18	0.43
1:B:74:VAL:CG2	1:B:165:ILE:HA	2.48	0.43
1:B:190:ALA:O	1:B:191:PRO:C	2.61	0.43
1:B:451:GLN:NE2	1:B:611:GLN:C	2.77	0.43
1:C:139:ASN:O	1:C:141:ILE:HG13	2.18	0.43
1:C:191:PRO:HG3	1:C:234:LYS:HZ3	1.82	0.43
1:C:276:TRP:CZ2	1:C:280:MET:HG3	2.53	0.43
1:C:422:THR:OG1	1:C:585:GLY:O	2.36	0.43
1:C:500:GLN:C	1:C:505:ILE:HG12	2.42	0.43
1:D:102:GLY:O	1:D:103:ASP:C	2.61	0.43
1:D:268:ILE:HD12	1:D:268:ILE:HA	1.86	0.43
1:D:394:LYS:HB2	1:D:613:SER:HB2	2.00	0.43
1:D:412:ILE:O	1:D:416:ASP:OD1	2.36	0.43
1:D:470:ASN:HD22	1:D:470:ASN:N	2.16	0.43
1:D:528:ARG:HA	1:D:530:VAL:HG22	2.00	0.43
1:E:117:LEU:O	1:E:117:LEU:HG	2.18	0.43
1:E:408:GLU:OE2	1:E:408:GLU:HA	2.18	0.43
1:F:18:LYS:HZ2	1:F:33:ILE:CD1	2.24	0.43
1:F:171:LYS:O	1:F:171:LYS:CG	2.60	0.43
1:F:485:PHE:C	1:F:485:PHE:CD1	2.96	0.43
1:G:470:ASN:HD22	1:G:470:ASN:N	2.16	0.43
1:H:408:GLU:OE2	1:H:408:GLU:HA	2.18	0.43
1:H:579:ARG:HA	1:H:582:ARG:NH2	2.33	0.43
1:A:109:ASN:O	1:A:110:GLN:C	2.61	0.43
1:A:222:PHE:HD2	1:A:224:PRO:HD2	1.83	0.43
1:A:276:TRP:HE3	1:A:277:LEU:HD23	1.83	0.43
1:A:435:GLN:O	1:A:439:ALA:N	2.50	0.43
1:A:470:ASN:HD22	1:A:470:ASN:N	2.16	0.43
1:A:646:ARG:C	1:A:647:GLN:OE1	2.61	0.43
1:B:19:GLU:HB3	1:B:20:ARG:H	1.66	0.43
1:B:503:PHE:C	1:B:505:ILE:H	2.26	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:493:ASP:C	1:C:495:GLU:H	2.27	0.43
1:C:655:TRP:HZ2	1:D:497:TYR:HB2	1.82	0.43
1:D:19:GLU:HB3	1:D:20:ARG:H	1.65	0.43
1:D:21:LEU:HD12	1:D:29:VAL:HG12	2.00	0.43
1:D:116:GLY:N	1:D:217:THR:O	2.50	0.43
1:D:226:TRP:HD1	1:D:227:GLN:N	2.06	0.43
1:D:281:LEU:O	1:D:282:MET:HG2	2.19	0.43
1:D:394:LYS:CB	1:D:613:SER:HB2	2.48	0.43
1:D:410:VAL:O	1:D:411:SER:C	2.61	0.43
1:D:646:ARG:C	1:D:647:GLN:OE1	2.61	0.43
1:E:55:ARG:HE	1:E:55:ARG:HB2	1.54	0.43
1:E:109:ASN:O	1:E:110:GLN:C	2.61	0.43
1:E:137:HIS:ND1	1:E:201:VAL:HG13	2.33	0.43
1:E:394:LYS:HE3	1:E:609:TYR:O	2.19	0.43
1:E:433:ILE:HB	1:E:571:TYR:OH	2.18	0.43
1:E:505:ILE:HG13	1:E:505:ILE:H	1.52	0.43
1:F:131:SER:C	1:F:134:ARG:HB3	2.44	0.43
1:F:281:LEU:O	1:F:282:MET:HG2	2.17	0.43
1:F:317:MET:HA	1:F:609:TYR:OH	2.19	0.43
1:F:660:ILE:C	1:F:662:CYS:N	2.68	0.43
1:G:412:ILE:O	1:G:416:ASP:OD1	2.36	0.43
1:G:414:LEU:O	1:G:418:LYS:HB2	2.19	0.43
1:G:533:LEU:O	1:G:537:MET:HG2	2.18	0.43
1:G:581:GLN:H	1:G:582:ARG:HD2	1.83	0.43
1:H:50:LEU:H	1:H:55:ARG:CD	2.31	0.43
1:H:146:LEU:HB3	1:H:207:SER:HB2	2.00	0.43
1:H:430:TRP:CB	1:H:571:TYR:HD2	2.29	0.43
1:H:455:MET:HE1	1:H:548:GLN:CA	2.47	0.43
1:A:281:LEU:O	1:A:282:MET:HG2	2.18	0.43
1:A:323:HIS:HB3	1:A:325:TYR:CE1	2.53	0.43
1:B:189:LEU:CG	1:B:190:ALA:N	2.65	0.43
1:B:253:VAL:HB	1:B:255:PHE:CE1	2.52	0.43
1:C:191:PRO:HG3	1:C:234:LYS:HZ2	1.83	0.43
1:C:478:GLN:O	1:C:482:LYS:HB3	2.19	0.43
1:C:486:PHE:HZ	1:C:517:MET:CE	2.31	0.43
1:C:654:LEU:HD22	1:D:654:LEU:HD22	2.00	0.43
1:D:172:GLU:O	1:D:173:LEU:C	2.62	0.43
1:D:346:ILE:HG23	1:D:346:ILE:O	2.18	0.43
1:D:480:LYS:NZ	1:D:640:GLU:OE1	2.49	0.43
1:D:511:LEU:HD21	1:D:515:ARG:NH2	2.34	0.43
1:D:533:LEU:O	1:D:537:MET:HG2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:581:GLN:H	1:D:582:ARG:HD2	1.84	0.43
1:E:144:ARG:HD2	1:E:171:LYS:HB2	2.01	0.43
1:E:319:SER:OG	1:E:403:LEU:HB3	2.17	0.43
1:E:490:ILE:O	1:E:490:ILE:CG2	2.67	0.43
1:F:125:LEU:HD12	1:F:129:ILE:HG12	2.00	0.43
1:G:346:ILE:HG23	1:G:346:ILE:O	2.18	0.43
1:H:246:TYR:CE1	1:H:258:VAL:HB	2.45	0.43
1:A:412:ILE:O	1:A:416:ASP:OD1	2.37	0.43
1:A:502:GLU:OE1	1:A:502:GLU:N	2.51	0.43
1:A:505:ILE:O	1:A:505:ILE:HG22	2.18	0.43
1:A:606:ILE:O	1:A:607:LEU:C	2.59	0.43
1:B:646:ARG:CG	1:B:647:GLN:NE2	2.54	0.43
1:C:16:GLU:C	1:C:17:MET:HG3	2.43	0.43
1:C:25:GLY:O	1:C:181:GLU:HG3	2.19	0.43
1:C:478:GLN:OE1	1:D:481:ALA:HB3	2.19	0.43
1:C:581:GLN:H	1:C:582:ARG:HD2	1.83	0.43
1:D:494:LEU:HD13	1:D:514:TRP:HB3	2.01	0.43
1:E:131:SER:C	1:E:134:ARG:HB3	2.43	0.43
1:E:208:PHE:O	1:E:211:LEU:HB3	2.19	0.43
1:E:312:LEU:HA	1:E:312:LEU:HD23	1.48	0.43
1:E:506:THR:HG22	1:E:507:SER:H	1.82	0.43
1:E:579:ARG:HA	1:E:582:ARG:NH2	2.34	0.43
1:F:412:ILE:HG12	1:F:433:ILE:HD13	2.01	0.43
1:F:607:LEU:HD23	1:F:607:LEU:HA	1.85	0.43
1:G:131:SER:C	1:G:134:ARG:HB3	2.44	0.43
1:H:110:GLN:O	1:H:111:PHE:CB	2.34	0.43
1:H:249:LEU:HB3	1:H:250:THR:H	1.35	0.43
1:H:437:ILE:HG13	1:H:594:LEU:HD12	2.01	0.43
1:B:296:ASN:CG	1:B:297:VAL:N	2.77	0.43
1:B:307:LEU:O	1:B:307:LEU:HD23	2.19	0.43
1:B:312:LEU:HA	1:B:312:LEU:HD23	1.50	0.43
1:B:658:LEU:C	1:B:660:ILE:H	2.27	0.43
1:C:148:PRO:HG3	1:C:188:TYR:OH	2.18	0.43
1:C:254:LYS:O	1:C:255:PHE:CG	2.72	0.43
1:C:505:ILE:HG13	1:C:505:ILE:H	1.56	0.43
1:C:607:LEU:HD23	1:C:607:LEU:HA	1.85	0.43
1:C:659:LYS:CD	1:D:500:GLN:HE22	2.32	0.43
1:D:261:THR:HB	1:D:262:PRO:HD2	2.01	0.43
1:E:233:GLY:O	1:E:235:VAL:N	2.49	0.43
1:E:319:SER:HB3	1:E:402:SER:O	2.19	0.43
1:E:571:TYR:CE2	1:E:590:MET:CG	3.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:422:THR:HG22	1:F:426:LEU:CD2	2.47	0.43
1:F:614:LYS:HA	1:F:614:LYS:HD3	1.75	0.43
1:G:277:LEU:C	1:G:279:CYS:N	2.76	0.43
1:A:233:GLY:O	1:A:235:VAL:N	2.51	0.43
1:A:467:LYS:HD3	1:A:467:LYS:HA	1.75	0.43
1:B:118:LYS:CB	1:B:264:HIS:O	2.66	0.43
1:C:110:GLN:HB3	1:C:113:ASN:ND2	2.34	0.43
1:C:296:ASN:ND2	1:C:302:ALA:HB2	2.34	0.43
1:C:408:GLU:OE2	1:C:408:GLU:HA	2.17	0.43
1:C:579:ARG:HA	1:C:582:ARG:NH2	2.34	0.43
1:C:655:TRP:CD1	1:D:496:LYS:CB	2.95	0.43
1:D:115:CYS:CB	1:D:435:GLN:HG3	2.48	0.43
1:D:208:PHE:O	1:D:211:LEU:HB3	2.19	0.43
1:D:226:TRP:CG	1:D:227:GLN:N	2.61	0.43
1:D:276:TRP:CE2	1:D:280:MET:HG3	2.54	0.43
1:E:103:ASP:O	1:E:104:LEU:C	2.61	0.43
1:E:185:THR:CG2	1:E:187:GLN:CG	2.80	0.43
1:E:206:TRP:CD1	1:E:207:SER:N	2.87	0.43
1:E:433:ILE:HG21	1:E:571:TYR:OH	2.19	0.43
1:E:571:TYR:CE2	1:E:590:MET:SD	3.11	0.43
1:F:206:TRP:CD1	1:F:207:SER:N	2.87	0.43
1:G:225:ASN:OD1	1:G:229:VAL:HG12	2.17	0.43
1:G:268:ILE:HD12	1:G:268:ILE:HA	1.92	0.43
1:H:102:GLY:HA3	1:H:152:VAL:HG13	2.00	0.43
1:A:50:LEU:H	1:A:55:ARG:CD	2.30	0.43
1:A:272:LYS:CG	1:A:273:LEU:N	2.68	0.43
1:B:190:ALA:HB2	1:B:206:TRP:CD1	2.54	0.43
1:B:222:PHE:HB3	1:B:255:PHE:HB3	2.00	0.43
1:B:482:LYS:C	1:B:484:ASP:N	2.76	0.43
1:B:594:LEU:O	1:B:598:ILE:HG13	2.19	0.43
1:C:102:GLY:CA	1:C:152:VAL:HG13	2.49	0.43
1:C:485:PHE:CD1	1:C:485:PHE:C	2.97	0.43
1:C:485:PHE:CG	1:D:485:PHE:CD2	3.06	0.43
1:D:102:GLY:CA	1:D:152:VAL:HG13	2.49	0.43
1:D:190:ALA:O	1:D:191:PRO:C	2.61	0.43
1:D:219:PHE:CE1	1:D:428:ARG:NE	2.87	0.43
1:D:567:ALA:O	1:D:571:TYR:HD1	2.02	0.43
1:D:606:ILE:O	1:D:607:LEU:C	2.61	0.43
1:E:339:TRP:HA	1:E:342:GLN:CB	2.36	0.43
1:E:387:ILE:HD12	1:E:450:GLY:HA2	2.01	0.43
1:E:390:PHE:N	1:E:390:PHE:CD1	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:435:GLN:O	1:E:439:ALA:N	2.51	0.43
1:E:524:CYS:SG	1:E:643:VAL:HG11	2.59	0.43
1:E:646:ARG:C	1:E:647:GLN:OE1	2.61	0.43
1:F:250:THR:C	1:F:251:GLY:O	2.61	0.43
1:F:361:LEU:HA	1:F:361:LEU:HD23	1.85	0.43
1:F:528:ARG:HA	1:F:530:VAL:HG22	2.01	0.43
1:F:579:ARG:HA	1:F:582:ARG:NH2	2.33	0.43
1:G:195:GLU:O	1:G:196:GLN:HB2	2.19	0.43
1:G:361:LEU:HD23	1:G:361:LEU:HA	1.85	0.43
1:G:455:MET:HE3	1:G:455:MET:HB2	1.92	0.43
1:H:307:LEU:HD23	1:H:307:LEU:O	2.18	0.43
1:H:416:ASP:OD1	1:H:416:ASP:N	2.39	0.43
1:A:120:GLY:CA	1:A:123:ARG:HB2	2.47	0.43
1:A:387:ILE:HD12	1:A:450:GLY:N	2.34	0.43
1:A:416:ASP:C	1:A:418:LYS:H	2.27	0.43
1:B:346:ILE:HG23	1:B:346:ILE:O	2.18	0.43
1:B:449:GLN:NE2	1:B:453:THR:CG2	2.82	0.43
1:C:68:LEU:HB3	1:C:135:TYR:HE2	1.83	0.43
1:C:171:LYS:O	1:C:171:LYS:CG	2.62	0.43
1:C:665:VAL:CG2	1:D:665:VAL:CG2	2.96	0.43
1:D:68:LEU:HB3	1:D:135:TYR:CE2	2.52	0.43
1:D:105:ARG:HG3	1:D:105:ARG:NH1	2.31	0.43
1:D:212:ALA:O	1:D:215:CYS:N	2.52	0.43
1:D:263:ASN:CG	1:D:264:HIS:N	2.76	0.43
1:E:296:ASN:ND2	1:E:302:ALA:HB2	2.33	0.43
1:E:563:LEU:CD2	1:E:596:LEU:HB2	2.36	0.43
1:F:312:LEU:HA	1:F:312:LEU:HD23	1.50	0.43
1:F:408:GLU:OE2	1:F:408:GLU:HA	2.19	0.43
1:G:140:ARG:NH2	1:G:174:ASP:OD2	2.51	0.43
1:G:153:LEU:HD22	1:G:162:HIS:HD1	1.81	0.43
1:G:433:ILE:HG21	1:G:571:TYR:OH	2.19	0.43
1:G:533:LEU:HD22	1:G:629:VAL:HG13	2.00	0.43
1:G:560:LEU:HD23	1:G:560:LEU:C	2.42	0.43
1:G:567:ALA:HA	1:G:590:MET:HE1	2.01	0.43
1:H:125:LEU:CA	1:H:162:HIS:NE2	2.70	0.43
1:H:272:LYS:HG2	1:H:273:LEU:HA	2.01	0.43
1:H:606:ILE:O	1:H:607:LEU:C	2.60	0.43
1:A:68:LEU:HB3	1:A:135:TYR:CE2	2.53	0.42
1:A:297:VAL:HG23	1:A:301:GLN:HE21	1.83	0.42
1:A:373:ASP:O	1:A:374:CYS:CB	2.67	0.42
1:A:387:ILE:CD1	1:A:449:GLN:HG3	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:441:LYS:HB2	1:A:560:LEU:HD21	1.97	0.42
1:B:103:ASP:O	1:B:105:ARG:N	2.52	0.42
1:B:131:SER:C	1:B:134:ARG:HB3	2.44	0.42
1:B:336:LEU:O	1:B:340:LEU:N	2.52	0.42
1:B:430:TRP:HZ2	1:B:586:ASP:O	2.00	0.42
1:B:579:ARG:HA	1:B:582:ARG:NH2	2.34	0.42
1:C:209:GLY:O	1:C:212:ALA:HB3	2.19	0.42
1:C:246:TYR:CE1	1:C:258:VAL:HB	2.44	0.42
1:D:144:ARG:HD2	1:D:171:LYS:HB2	2.00	0.42
1:D:521:VAL:CG1	1:D:643:VAL:HG12	2.49	0.42
1:D:632:VAL:O	1:D:633:MET:SD	2.77	0.42
1:E:18:LYS:HD2	1:E:33:ILE:HB	1.99	0.42
1:E:121:PRO:HA	1:E:124:THR:OG1	2.19	0.42
1:E:260:PRO:HB3	1:E:273:LEU:HD22	2.00	0.42
1:E:590:MET:HE1	1:E:593:LEU:HD12	2.00	0.42
1:F:26:PHE:HE2	1:F:181:GLU:CD	2.24	0.42
1:F:233:GLY:O	1:F:235:VAL:N	2.52	0.42
1:F:410:VAL:O	1:F:411:SER:C	2.61	0.42
1:G:410:VAL:O	1:G:411:SER:C	2.60	0.42
1:H:119:GLU:CB	1:H:121:PRO:HB2	2.49	0.42
1:H:131:SER:C	1:H:134:ARG:HB3	2.44	0.42
1:H:269:LEU:C	1:H:271:GLY:N	2.72	0.42
1:A:103:ASP:O	1:A:104:LEU:C	2.61	0.42
1:A:139:ASN:O	1:A:141:ILE:HG13	2.19	0.42
1:A:225:ASN:OD1	1:A:229:VAL:HG12	2.19	0.42
1:A:276:TRP:CE2	1:A:280:MET:HG3	2.54	0.42
1:A:449:GLN:NE2	1:A:453:THR:CG2	2.82	0.42
1:B:50:LEU:H	1:B:55:ARG:CD	2.29	0.42
1:B:222:PHE:HE2	1:B:225:ASN:HB2	1.71	0.42
1:B:281:LEU:O	1:B:282:MET:HG2	2.19	0.42
1:B:540:LEU:HD22	1:B:621:LYS:HE3	2.00	0.42
1:C:146:LEU:HB3	1:C:207:SER:HB2	2.00	0.42
1:C:316:ASN:O	1:C:317:MET:HG2	2.19	0.42
1:C:416:ASP:HB3	1:C:591:VAL:HG13	2.01	0.42
1:C:430:TRP:CB	1:C:571:TYR:CD2	3.02	0.42
1:C:436:THR:O	1:C:440:LEU:HG	2.19	0.42
1:C:452:ARG:HE	1:C:550:ASN:HD22	1.67	0.42
1:C:482:LYS:C	1:C:484:ASP:N	2.76	0.42
1:D:103:ASP:O	1:D:105:ARG:N	2.52	0.42
1:D:319:SER:OG	1:D:403:LEU:HB3	2.17	0.42
1:E:16:GLU:HB3	1:E:17:MET:H	1.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:124:THR:OG1	1:E:162:HIS:HE1	2.03	0.42
1:F:55:ARG:HE	1:F:55:ARG:HB2	1.52	0.42
1:F:105:ARG:CZ	1:F:149:GLU:OE2	2.67	0.42
1:G:408:GLU:OE2	1:G:408:GLU:HA	2.19	0.42
1:H:26:PHE:CE2	1:H:181:GLU:OE2	2.70	0.42
1:H:206:TRP:CD1	1:H:207:SER:N	2.88	0.42
1:H:277:LEU:C	1:H:279:CYS:N	2.77	0.42
1:H:434:TRP:O	1:H:435:GLN:C	2.60	0.42
1:A:119:GLU:CB	1:A:121:PRO:HB2	2.50	0.42
1:B:148:PRO:HD2	1:B:149:GLU:OE2	2.19	0.42
1:B:316:ASN:O	1:B:317:MET:HG2	2.18	0.42
1:B:438:ARG:HH12	1:B:568:ARG:HH21	1.66	0.42
1:B:545:VAL:HG13	1:B:548:GLN:NE2	2.35	0.42
1:C:131:SER:C	1:C:134:ARG:HB3	2.44	0.42
1:C:213:PHE:CE2	1:C:217:THR:OG1	2.69	0.42
1:C:233:GLY:O	1:C:235:VAL:N	2.52	0.42
1:C:425:HIS:C	1:C:426:LEU:HD23	2.45	0.42
1:C:501:MET:C	1:C:505:ILE:HD11	2.44	0.42
1:D:118:LYS:CG	1:D:118:LYS:O	2.65	0.42
1:D:125:LEU:HD12	1:D:129:ILE:HG12	2.01	0.42
1:E:494:LEU:CD1	1:E:514:TRP:HB3	2.50	0.42
1:E:529:GLU:HG3	1:E:633:MET:HE3	2.01	0.42
1:F:296:ASN:CG	1:F:297:VAL:N	2.75	0.42
1:F:346:ILE:HG23	1:F:346:ILE:O	2.19	0.42
1:G:19:GLU:HB3	1:G:20:ARG:H	1.66	0.42
1:G:70:HIS:HB3	1:G:73:VAL:CG1	2.49	0.42
1:G:110:GLN:HB3	1:G:113:ASN:ND2	2.33	0.42
1:G:118:LYS:NZ	1:G:123:ARG:HH12	2.17	0.42
1:G:245:VAL:O	1:G:257:SER:C	2.62	0.42
1:H:338:SER:OG	1:H:339:TRP:N	2.52	0.42
1:H:350:GLU:CG	1:H:391:ASP:HB2	2.47	0.42
1:H:628:LYS:C	1:H:630:LYS:H	2.28	0.42
1:A:124:THR:OG1	1:A:162:HIS:HE1	2.02	0.42
1:A:219:PHE:HB2	1:A:220:ARG:H	1.55	0.42
1:A:312:LEU:HA	1:A:312:LEU:HD23	1.50	0.42
1:A:358:GLY:O	1:A:359:LEU:CB	2.59	0.42
1:B:406:HIS:HA	1:B:407:PRO:HD2	1.83	0.42
1:B:438:ARG:CG	1:B:564:GLU:CG	2.95	0.42
1:C:50:LEU:H	1:C:55:ARG:CD	2.30	0.42
1:C:222:PHE:HE2	1:C:225:ASN:HB2	1.76	0.42
1:C:315:MET:SD	1:C:321:ARG:HA	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:412:ILE:HG12	1:C:433:ILE:HD13	2.01	0.42
1:C:434:TRP:O	1:C:435:GLN:C	2.59	0.42
1:C:449:GLN:NE2	1:C:453:THR:CG2	2.82	0.42
1:C:470:ASN:N	1:C:470:ASN:HD22	2.18	0.42
1:D:17:MET:CB	1:D:32:TRP:HB3	2.36	0.42
1:D:186:LEU:CD2	1:D:227:GLN:HG2	2.47	0.42
1:D:195:GLU:O	1:D:196:GLN:HB2	2.19	0.42
1:E:402:SER:O	1:E:403:LEU:CB	2.66	0.42
1:E:481:ALA:O	1:E:484:ASP:HB2	2.20	0.42
1:E:496:LYS:CB	1:F:655:TRP:NE1	2.39	0.42
1:F:25:GLY:O	1:F:181:GLU:HG3	2.19	0.42
1:F:110:GLN:HB3	1:F:113:ASN:ND2	2.34	0.42
1:F:118:LYS:CB	1:F:264:HIS:O	2.67	0.42
1:F:189:LEU:HD12	1:F:189:LEU:HA	1.69	0.42
1:F:247:ASP:HB3	1:F:248:ASP:H	1.51	0.42
1:F:317:MET:HE3	1:F:609:TYR:OH	2.20	0.42
1:F:323:HIS:HB3	1:F:325:TYR:CE1	2.55	0.42
1:F:433:ILE:HB	1:F:571:TYR:OH	2.19	0.42
1:F:437:ILE:HG22	1:F:564:GLU:HB2	2.00	0.42
1:G:125:LEU:HD12	1:G:129:ILE:HG12	2.01	0.42
1:G:271:GLY:HA2	1:G:275:ARG:NH2	2.34	0.42
1:G:319:SER:C	1:G:321:ARG:N	2.66	0.42
1:G:350:GLU:CG	1:G:391:ASP:HB2	2.48	0.42
1:H:246:TYR:HB2	1:H:256:SER:HB3	2.00	0.42
1:H:296:ASN:CG	1:H:297:VAL:N	2.75	0.42
1:H:528:ARG:HA	1:H:530:VAL:HG22	2.02	0.42
1:A:408:GLU:OE2	1:A:408:GLU:HA	2.18	0.42
1:A:436:THR:O	1:A:440:LEU:HG	2.20	0.42
1:A:482:LYS:C	1:A:484:ASP:H	2.26	0.42
1:B:244:VAL:HG22	1:B:282:MET:SD	2.60	0.42
1:B:336:LEU:O	1:B:337:LYS:C	2.63	0.42
1:B:447:LEU:HD12	1:B:605:VAL:CG2	2.49	0.42
1:B:471:SER:C	1:B:473:THR:N	2.76	0.42
1:B:479:LEU:HD11	1:B:641:LYS:HG3	2.00	0.42
1:C:60:LEU:HD21	1:C:175:GLN:HB3	2.01	0.42
1:C:412:ILE:O	1:C:416:ASP:OD1	2.38	0.42
1:C:452:ARG:HD2	1:C:550:ASN:ND2	2.35	0.42
1:C:528:ARG:HA	1:C:530:VAL:HG22	2.00	0.42
1:C:564:GLU:O	1:C:564:GLU:HG2	2.19	0.42
1:E:307:LEU:HD23	1:E:307:LEU:O	2.20	0.42
1:E:430:TRP:O	1:E:431:GLY:C	2.63	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:190:ALA:O	1:F:191:PRO:C	2.62	0.42
1:F:387:ILE:HD13	1:F:450:GLY:CA	2.46	0.42
1:F:402:SER:HB2	1:F:403:LEU:H	1.65	0.42
1:F:525:GLY:HA2	1:F:640:GLU:CG	2.49	0.42
1:F:628:LYS:C	1:F:630:LYS:H	2.27	0.42
1:F:629:VAL:O	1:F:629:VAL:HG12	2.19	0.42
1:G:50:LEU:H	1:G:55:ARG:CD	2.32	0.42
1:G:115:CYS:HB2	1:G:435:GLN:HG3	2.00	0.42
1:H:109:ASN:O	1:H:110:GLN:C	2.61	0.42
1:A:361:LEU:HD23	1:A:361:LEU:HA	1.86	0.42
1:A:661:ALA:HB1	1:B:662:CYS:SG	2.60	0.42
1:B:33:ILE:HD11	1:B:40:GLN:OE1	2.20	0.42
1:B:402:SER:HB2	1:B:403:LEU:H	1.65	0.42
1:B:533:LEU:O	1:B:537:MET:HG2	2.20	0.42
1:B:581:GLN:H	1:B:582:ARG:HD2	1.84	0.42
1:B:614:LYS:HD3	1:B:614:LYS:HA	1.80	0.42
1:C:486:PHE:O	1:C:486:PHE:CG	2.72	0.42
1:C:502:GLU:N	1:C:502:GLU:OE1	2.53	0.42
1:C:628:LYS:C	1:C:630:LYS:H	2.28	0.42
1:D:104:LEU:N	1:D:151:ILE:O	2.33	0.42
1:D:118:LYS:HG2	1:D:265:LEU:HA	2.02	0.42
1:D:153:LEU:CA	1:D:162:HIS:HB3	2.39	0.42
1:D:312:LEU:O	1:D:324:THR:HG23	2.20	0.42
1:D:571:TYR:CZ	1:D:590:MET:SD	3.12	0.42
1:E:333:LEU:O	1:E:336:LEU:N	2.53	0.42
1:E:503:PHE:C	1:E:505:ILE:HG13	2.45	0.42
1:F:118:LYS:CB	1:F:264:HIS:C	2.92	0.42
1:F:144:ARG:HD2	1:F:171:LYS:HB2	2.00	0.42
1:F:277:LEU:C	1:F:279:CYS:N	2.78	0.42
1:F:362:ASN:C	1:F:364:ALA:N	2.73	0.42
1:F:488:SER:O	1:F:492:ILE:HG22	2.20	0.42
1:G:316:ASN:O	1:G:317:MET:HG2	2.19	0.42
1:H:222:PHE:CE2	1:H:225:ASN:CB	2.90	0.42
1:H:315:MET:SD	1:H:321:ARG:HA	2.59	0.42
1:H:336:LEU:O	1:H:340:LEU:N	2.52	0.42
1:H:422:THR:HG21	1:H:586:ASP:C	2.45	0.42
1:H:438:ARG:HG2	1:H:564:GLU:CG	2.49	0.42
1:A:131:SER:C	1:A:134:ARG:HB3	2.44	0.42
1:A:434:TRP:O	1:A:435:GLN:C	2.61	0.42
1:B:125:LEU:HD21	1:B:215:CYS:SG	2.60	0.42
1:B:140:ARG:NH2	1:B:174:ASP:OD2	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:260:PRO:C	1:B:261:THR:OG1	2.61	0.42
1:C:103:ASP:O	1:C:105:ARG:N	2.53	0.42
1:C:418:LYS:HB3	1:C:419:ARG:H	1.67	0.42
1:D:33:ILE:HG22	1:D:35:GLN:HA	2.02	0.42
1:D:148:PRO:HD2	1:D:149:GLU:OE2	2.20	0.42
1:E:140:ARG:NH2	1:E:174:ASP:OD2	2.51	0.42
1:E:245:VAL:O	1:E:257:SER:C	2.63	0.42
1:E:455:MET:HE3	1:E:455:MET:HB2	1.92	0.42
1:E:502:GLU:OE1	1:E:502:GLU:N	2.53	0.42
1:E:629:VAL:O	1:E:629:VAL:HG12	2.20	0.42
1:F:119:GLU:CB	1:F:121:PRO:HB2	2.49	0.42
1:F:125:LEU:CA	1:F:162:HIS:NE2	2.71	0.42
1:F:139:ASN:O	1:F:141:ILE:HG13	2.19	0.42
1:F:190:ALA:HB2	1:F:206:TRP:CG	2.55	0.42
1:F:261:THR:HB	1:F:262:PRO:HD2	2.01	0.42
1:F:434:TRP:O	1:F:435:GLN:C	2.61	0.42
1:G:434:TRP:CZ3	1:G:568:ARG:CG	2.95	0.42
1:G:579:ARG:HA	1:G:582:ARG:NH2	2.34	0.42
1:H:225:ASN:OD1	1:H:229:VAL:HG12	2.20	0.42
1:H:361:LEU:HD23	1:H:361:LEU:HA	1.87	0.42
1:H:470:ASN:ND2	1:H:537:MET:HE2	2.35	0.42
1:A:33:ILE:HD11	1:A:40:GLN:OE1	2.20	0.42
1:A:33:ILE:HG22	1:A:35:GLN:HA	2.02	0.42
1:A:144:ARG:HD2	1:A:171:LYS:HB2	2.02	0.42
1:A:478:GLN:HA	1:B:478:GLN:OE1	2.20	0.42
1:A:488:SER:O	1:A:489:SER:C	2.62	0.42
1:B:478:GLN:O	1:B:482:LYS:HB3	2.20	0.42
1:B:580:ASP:O	1:B:580:ASP:CG	2.63	0.42
1:B:628:LYS:C	1:B:630:LYS:H	2.27	0.42
1:C:18:LYS:HG3	1:C:35:GLN:HG2	2.02	0.42
1:C:416:ASP:OD1	1:C:416:ASP:N	2.39	0.42
1:D:102:GLY:HA3	1:D:152:VAL:HG13	2.02	0.42
1:E:120:GLY:O	1:E:123:ARG:CA	2.68	0.42
1:E:134:ARG:CB	1:E:300:PHE:CE1	2.97	0.42
1:F:225:ASN:HB3	1:F:226:TRP:H	1.69	0.42
1:F:272:LYS:HG2	1:F:273:LEU:HA	2.02	0.42
1:F:312:LEU:O	1:F:324:THR:HG23	2.20	0.42
1:F:350:GLU:CG	1:F:391:ASP:HB2	2.46	0.42
1:F:646:ARG:C	1:F:647:GLN:OE1	2.63	0.42
1:G:102:GLY:O	1:G:103:ASP:C	2.62	0.42
1:G:139:ASN:O	1:G:141:ILE:HG13	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:189:LEU:CG	1:G:190:ALA:N	2.68	0.42
1:G:316:ASN:N	1:G:321:ARG:O	2.52	0.42
1:H:118:LYS:HZ2	1:H:123:ARG:HH12	1.67	0.42
1:H:262:PRO:HB3	1:H:409:SER:HG	1.82	0.42
1:H:273:LEU:O	1:H:276:TRP:N	2.53	0.42
1:H:581:GLN:H	1:H:582:ARG:HD2	1.85	0.42
1:B:312:LEU:O	1:B:324:THR:HG23	2.19	0.42
1:B:358:GLY:O	1:B:359:LEU:CB	2.63	0.42
1:C:33:ILE:HD11	1:C:40:GLN:OE1	2.20	0.42
1:C:125:LEU:CA	1:C:162:HIS:NE2	2.74	0.42
1:C:517:MET:CE	1:C:647:GLN:OE1	2.68	0.42
1:D:222:PHE:HB2	1:D:255:PHE:HD2	1.85	0.42
1:D:433:ILE:HG23	1:D:594:LEU:HD22	2.01	0.42
1:D:569:ASP:HA	1:D:572:ARG:HB3	2.02	0.42
1:D:650:ARG:HA	1:D:650:ARG:HD3	1.67	0.42
1:E:17:MET:CB	1:E:32:TRP:HB3	2.37	0.42
1:E:70:HIS:HB2	1:E:135:TYR:CD2	2.54	0.42
1:E:102:GLY:CA	1:E:152:VAL:HG13	2.49	0.42
1:E:235:VAL:CG1	1:E:243:ILE:N	2.74	0.42
1:E:272:LYS:HG2	1:E:273:LEU:HA	2.02	0.42
1:E:277:LEU:C	1:E:279:CYS:N	2.77	0.42
1:E:485:PHE:C	1:E:485:PHE:CD1	2.97	0.42
1:E:505:ILE:O	1:E:505:ILE:HG22	2.19	0.42
1:F:105:ARG:HG3	1:F:105:ARG:NH1	2.35	0.42
1:G:33:ILE:HD11	1:G:40:GLN:OE1	2.20	0.42
1:G:172:GLU:O	1:G:173:LEU:C	2.63	0.42
1:G:296:ASN:CG	1:G:297:VAL:N	2.77	0.42
1:G:406:HIS:HA	1:G:407:PRO:HD2	1.83	0.42
1:G:530:VAL:CA	1:G:533:LEU:HD12	2.32	0.42
1:G:614:LYS:HA	1:G:614:LYS:HD3	1.79	0.42
1:G:629:VAL:O	1:G:629:VAL:HG12	2.20	0.42
1:H:260:PRO:HB3	1:H:273:LEU:HD22	2.01	0.42
1:H:412:ILE:O	1:H:416:ASP:OD1	2.38	0.42
1:A:84:GLN:HB3	1:A:85:LYS:H	1.51	0.42
1:A:143:HIS:NE2	1:A:167:LEU:HB2	2.35	0.42
1:A:235:VAL:CG1	1:A:243:ILE:N	2.74	0.42
1:A:263:ASN:CG	1:A:264:HIS:N	2.78	0.42
1:A:426:LEU:O	1:A:430:TRP:N	2.46	0.42
1:B:269:LEU:HD22	1:B:272:LYS:HB3	2.02	0.42
1:B:500:GLN:HB3	1:B:505:ILE:HG13	2.00	0.42
1:B:503:PHE:N	1:B:505:ILE:HD11	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:517:MET:SD	1:B:650:ARG:HG3	2.60	0.42
1:C:74:VAL:HG21	1:C:165:ILE:HA	2.01	0.42
1:C:190:ALA:HB2	1:C:206:TRP:CG	2.55	0.42
1:C:307:LEU:HD23	1:C:307:LEU:O	2.20	0.42
1:C:438:ARG:HG2	1:C:564:GLU:CG	2.50	0.42
1:D:402:SER:HB2	1:D:403:LEU:H	1.65	0.42
1:E:110:GLN:HB3	1:E:113:ASN:ND2	2.34	0.42
1:E:172:GLU:O	1:E:173:LEU:C	2.63	0.42
1:F:124:THR:OG1	1:F:162:HIS:HE1	2.02	0.42
1:G:21:LEU:HD12	1:G:29:VAL:HG12	2.00	0.42
1:G:110:GLN:O	1:G:111:PHE:CB	2.37	0.42
1:G:146:LEU:C	1:G:147:LYS:HG2	2.45	0.42
1:G:253:VAL:HB	1:G:255:PHE:CE1	2.54	0.42
1:G:422:THR:HG22	1:G:426:LEU:CD2	2.49	0.42
1:G:528:ARG:HA	1:G:530:VAL:HG22	2.02	0.42
1:H:118:LYS:HZ1	1:H:123:ARG:HH22	1.68	0.42
1:A:503:PHE:HB3	1:B:662:CYS:SG	2.60	0.41
1:B:33:ILE:HG23	1:B:39:GLU:H	1.85	0.41
1:C:16:GLU:HB3	1:C:17:MET:H	1.68	0.41
1:C:273:LEU:O	1:C:276:TRP:N	2.53	0.41
1:C:484:ASP:OD1	1:C:487:ARG:NH1	2.53	0.41
1:C:527:GLU:HG2	1:C:530:VAL:HG13	2.02	0.41
1:C:545:VAL:HG13	1:C:548:GLN:NE2	2.35	0.41
1:D:139:ASN:O	1:D:141:ILE:HG13	2.20	0.41
1:D:213:PHE:HD2	1:D:214:GLU:N	2.18	0.41
1:D:467:LYS:HD3	1:D:467:LYS:HA	1.75	0.41
1:D:482:LYS:C	1:D:484:ASP:N	2.78	0.41
1:D:588:ASN:C	1:D:590:MET:H	2.28	0.41
1:D:628:LYS:C	1:D:630:LYS:H	2.28	0.41
1:E:346:ILE:O	1:E:346:ILE:HG23	2.20	0.41
1:E:434:TRP:O	1:E:435:GLN:C	2.63	0.41
1:F:416:ASP:C	1:F:418:LYS:H	2.28	0.41
1:G:18:LYS:HZ2	1:G:33:ILE:CD1	2.30	0.41
1:G:276:TRP:HE3	1:G:277:LEU:HD23	1.84	0.41
1:A:172:GLU:O	1:A:173:LEU:C	2.63	0.41
1:A:210:THR:O	1:A:213:PHE:N	2.53	0.41
1:A:222:PHE:CE2	1:A:225:ASN:CB	2.89	0.41
1:A:297:VAL:HG23	1:A:301:GLN:NE2	2.35	0.41
1:A:478:GLN:O	1:A:482:LYS:HB3	2.20	0.41
1:A:533:LEU:O	1:A:537:MET:HG2	2.20	0.41
1:A:566:GLN:HG2	1:A:593:LEU:CD1	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:665:VAL:CG2	1:B:665:VAL:HG21	2.49	0.41
1:B:114:CYS:O	1:B:115:CYS:CB	2.64	0.41
1:C:114:CYS:O	1:C:115:CYS:CB	2.64	0.41
1:C:144:ARG:HD2	1:C:171:LYS:HB2	2.01	0.41
1:C:533:LEU:O	1:C:537:MET:HG2	2.20	0.41
1:C:569:ASP:HA	1:C:572:ARG:HB3	2.02	0.41
1:D:262:PRO:HG2	1:D:432:GLN:HG2	2.03	0.41
1:D:336:LEU:O	1:D:337:LYS:C	2.63	0.41
1:E:102:GLY:HA3	1:E:152:VAL:HG13	2.02	0.41
1:E:409:SER:CB	1:E:412:ILE:CD1	2.93	0.41
1:E:485:PHE:CD2	1:F:485:PHE:CD2	3.08	0.41
1:E:565:GLU:O	1:E:568:ARG:HB3	2.20	0.41
1:E:665:VAL:HG11	1:F:664:LYS:O	2.20	0.41
1:F:18:LYS:HG3	1:F:35:GLN:HG2	2.03	0.41
1:F:26:PHE:CE2	1:F:181:GLU:OE1	2.68	0.41
1:F:102:GLY:O	1:F:103:ASP:C	2.62	0.41
1:F:165:ILE:O	1:F:167:LEU:N	2.48	0.41
1:F:222:PHE:HB2	1:F:255:PHE:HD2	1.85	0.41
1:F:254:LYS:N	1:F:255:PHE:CE1	2.87	0.41
1:F:352:GLU:OE1	1:F:619:LYS:NZ	2.32	0.41
1:G:185:THR:CG2	1:G:187:GLN:CG	2.80	0.41
1:G:213:PHE:HD2	1:G:214:GLU:N	2.18	0.41
1:H:124:THR:O	1:H:127:SER:N	2.52	0.41
1:H:148:PRO:HD2	1:H:149:GLU:OE2	2.20	0.41
1:H:222:PHE:HB2	1:H:255:PHE:HD2	1.84	0.41
1:A:104:LEU:N	1:A:151:ILE:O	2.33	0.41
1:A:124:THR:O	1:A:127:SER:N	2.53	0.41
1:A:268:ILE:HD12	1:A:268:ILE:HA	1.91	0.41
1:A:430:TRP:CB	1:A:571:TYR:HD2	2.27	0.41
1:B:172:GLU:O	1:B:173:LEU:C	2.62	0.41
1:B:193:LEU:O	1:B:194:LEU:C	2.63	0.41
1:B:195:GLU:O	1:B:196:GLN:HB2	2.20	0.41
1:C:245:VAL:O	1:C:257:SER:C	2.63	0.41
1:D:316:ASN:O	1:D:317:MET:HG2	2.21	0.41
1:D:494:LEU:CD1	1:D:514:TRP:HB3	2.50	0.41
1:D:563:LEU:HD21	1:D:596:LEU:HB2	2.02	0.41
1:E:33:ILE:HG22	1:E:35:GLN:HA	2.03	0.41
1:E:103:ASP:O	1:E:106:LYS:N	2.53	0.41
1:E:120:GLY:CA	1:E:123:ARG:HB2	2.48	0.41
1:E:222:PHE:CB	1:E:255:PHE:HB3	2.50	0.41
1:E:434:TRP:HZ3	1:E:568:ARG:HA	1.75	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:118:LYS:HG2	1:F:265:LEU:CA	2.46	0.41
1:F:502:GLU:N	1:F:502:GLU:OE1	2.53	0.41
1:F:517:MET:CG	1:F:646:ARG:HH11	2.18	0.41
1:G:42:ALA:C	1:G:43:ILE:HD12	2.46	0.41
1:G:109:ASN:O	1:G:110:GLN:C	2.62	0.41
1:H:291:ASP:HA	1:H:292:PRO:HD3	1.82	0.41
1:H:443:ASP:O	1:H:446:ARG:CB	2.62	0.41
1:A:315:MET:SD	1:A:321:ARG:HA	2.61	0.41
1:A:444:CYS:C	1:A:446:ARG:H	2.28	0.41
1:A:564:GLU:O	1:A:564:GLU:HG2	2.19	0.41
1:B:70:HIS:HB3	1:B:73:VAL:CG1	2.50	0.41
1:C:89:ASN:C	1:C:91:LEU:N	2.77	0.41
1:C:222:PHE:HB2	1:C:255:PHE:HD2	1.85	0.41
1:D:118:LYS:NZ	1:D:123:ARG:HH12	2.18	0.41
1:D:234:LYS:O	1:D:235:VAL:O	2.38	0.41
1:D:246:TYR:CE1	1:D:258:VAL:HB	2.46	0.41
1:D:414:LEU:O	1:D:418:LYS:HB2	2.20	0.41
1:E:470:ASN:HD22	1:E:470:ASN:N	2.18	0.41
1:E:560:LEU:HD23	1:E:560:LEU:C	2.46	0.41
1:E:581:GLN:H	1:E:582:ARG:HD2	1.86	0.41
1:F:102:GLY:CA	1:F:152:VAL:HG13	2.50	0.41
1:F:260:PRO:C	1:F:261:THR:HG1	2.28	0.41
1:F:268:ILE:HD12	1:F:268:ILE:HA	1.90	0.41
1:F:357:SER:CB	1:F:453:THR:HB	2.51	0.41
1:F:479:LEU:HB3	1:F:640:GLU:OE2	2.21	0.41
1:G:18:LYS:HG3	1:G:35:GLN:HG2	2.03	0.41
1:G:102:GLY:CA	1:G:152:VAL:HG13	2.51	0.41
1:H:189:LEU:CG	1:H:190:ALA:N	2.70	0.41
1:H:213:PHE:O	1:H:214:GLU:C	2.63	0.41
1:H:222:PHE:HE2	1:H:225:ASN:HB2	1.72	0.41
1:H:260:PRO:C	1:H:261:THR:HG1	2.28	0.41
1:A:110:GLN:HB3	1:A:113:ASN:ND2	2.35	0.41
1:A:118:LYS:CB	1:A:264:HIS:C	2.93	0.41
1:A:422:THR:HG22	1:A:426:LEU:CD2	2.47	0.41
1:A:493:ASP:C	1:A:495:GLU:H	2.27	0.41
1:A:547:LEU:HD22	1:A:611:GLN:HG2	2.01	0.41
1:B:254:LYS:C	1:B:255:PHE:CD1	2.99	0.41
1:B:428:ARG:HB2	1:B:429:VAL:H	1.69	0.41
1:C:416:ASP:C	1:C:418:LYS:H	2.29	0.41
1:C:536:LYS:CB	1:C:625:LEU:HD13	2.16	0.41
1:D:70:HIS:HB3	1:D:73:VAL:CG1	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:260:PRO:C	1:D:261:THR:OG1	2.64	0.41
1:D:614:LYS:HD3	1:D:614:LYS:HA	1.79	0.41
1:E:42:ALA:C	1:E:43:ILE:HD12	2.46	0.41
1:E:424:THR:HG1	1:E:425:HIS:HD1	1.54	0.41
1:E:501:MET:C	1:E:505:ILE:HD11	2.46	0.41
1:F:89:ASN:C	1:F:91:LEU:N	2.77	0.41
1:F:244:VAL:HG22	1:F:282:MET:SD	2.61	0.41
1:F:260:PRO:HB2	1:F:273:LEU:CD1	2.47	0.41
1:G:55:ARG:HE	1:G:55:ARG:HB2	1.54	0.41
1:G:226:TRP:HD1	1:G:227:GLN:N	2.10	0.41
1:G:632:VAL:HB	1:G:633:MET:HE2	2.02	0.41
1:H:32:TRP:HD1	1:H:43:ILE:HD13	1.85	0.41
1:H:33:ILE:HG22	1:H:35:GLN:HA	2.02	0.41
1:H:146:LEU:C	1:H:147:LYS:HG2	2.46	0.41
1:H:423:TYR:CE1	1:H:425:HIS:O	2.74	0.41
1:A:70:HIS:HB3	1:A:73:VAL:CG1	2.50	0.41
1:A:195:GLU:O	1:A:196:GLN:HB2	2.20	0.41
1:A:510:LEU:HD22	1:A:653:GLU:HB2	2.02	0.41
1:A:517:MET:HG3	1:A:646:ARG:HH11	1.85	0.41
1:A:581:GLN:H	1:A:582:ARG:HD2	1.84	0.41
1:B:120:GLY:O	1:B:123:ARG:CA	2.69	0.41
1:B:120:GLY:C	1:B:123:ARG:H	2.29	0.41
1:B:261:THR:HB	1:B:262:PRO:HD2	2.02	0.41
1:B:488:SER:O	1:B:492:ILE:HG22	2.20	0.41
1:C:346:ILE:HA	1:C:347:PRO:HD3	1.83	0.41
1:C:435:GLN:O	1:C:439:ALA:N	2.51	0.41
1:D:209:GLY:O	1:D:212:ALA:HB3	2.21	0.41
1:E:500:GLN:HE22	1:F:659:LYS:HG2	1.85	0.41
1:E:563:LEU:HD21	1:E:596:LEU:CB	2.35	0.41
1:F:33:ILE:HG22	1:F:35:GLN:HA	2.02	0.41
1:F:234:LYS:O	1:F:235:VAL:O	2.38	0.41
1:F:235:VAL:CG1	1:F:243:ILE:N	2.72	0.41
1:F:459:LEU:O	1:F:459:LEU:HD23	2.21	0.41
1:F:473:THR:HB	1:F:533:LEU:HD13	2.03	0.41
1:F:581:GLN:H	1:F:582:ARG:HD2	1.85	0.41
1:G:472:MET:CG	1:G:633:MET:CB	2.99	0.41
1:H:18:LYS:HG3	1:H:35:GLN:HG2	2.03	0.41
1:H:144:ARG:HD2	1:H:171:LYS:HB2	2.01	0.41
1:H:195:GLU:O	1:H:196:GLN:HB2	2.20	0.41
1:H:346:ILE:HG23	1:H:346:ILE:O	2.20	0.41
1:A:206:TRP:CD1	1:A:207:SER:N	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:307:LEU:O	1:A:307:LEU:HD23	2.21	0.41
1:A:437:ILE:CG1	1:A:594:LEU:HD12	2.50	0.41
1:A:658:LEU:CD1	1:B:658:LEU:HA	2.51	0.41
1:B:89:ASN:C	1:B:91:LEU:N	2.78	0.41
1:B:139:ASN:O	1:B:141:ILE:HG13	2.21	0.41
1:B:144:ARG:HD2	1:B:171:LYS:HB2	2.00	0.41
1:B:226:TRP:CG	1:B:227:GLN:N	2.62	0.41
1:B:265:LEU:HG	1:B:266:SER:H	1.86	0.41
1:C:119:GLU:CB	1:C:121:PRO:HB2	2.50	0.41
1:C:119:GLU:HB2	1:C:121:PRO:N	2.36	0.41
1:C:515:ARG:HA	1:C:518:GLU:OE2	2.20	0.41
1:C:539:ALA:O	1:C:543:ASP:HB2	2.20	0.41
1:D:18:LYS:HG3	1:D:35:GLN:HG2	2.02	0.41
1:D:222:PHE:HE2	1:D:225:ASN:HB2	1.72	0.41
1:D:449:GLN:NE2	1:D:453:THR:CG2	2.83	0.41
1:D:646:ARG:CG	1:D:647:GLN:NE2	2.54	0.41
1:E:33:ILE:HD11	1:E:40:GLN:OE1	2.20	0.41
1:E:387:ILE:HD12	1:E:450:GLY:CA	2.49	0.41
1:E:533:LEU:O	1:E:537:MET:HG2	2.20	0.41
1:E:569:ASP:HA	1:E:572:ARG:HB3	2.03	0.41
1:F:172:GLU:O	1:F:173:LEU:C	2.64	0.41
1:F:249:LEU:HB3	1:F:250:THR:H	1.38	0.41
1:F:533:LEU:O	1:F:537:MET:HG2	2.20	0.41
1:G:33:ILE:HG22	1:G:35:GLN:HA	2.02	0.41
1:G:103:ASP:O	1:G:104:LEU:C	2.63	0.41
1:G:336:LEU:O	1:G:337:LYS:C	2.63	0.41
1:B:412:ILE:HG12	1:B:433:ILE:HD13	2.03	0.41
1:B:455:MET:O	1:B:455:MET:CE	2.68	0.41
1:B:517:MET:HE3	1:B:646:ARG:CD	2.49	0.41
1:C:42:ALA:C	1:C:43:ILE:HD12	2.46	0.41
1:C:114:CYS:O	1:C:114:CYS:SG	2.79	0.41
1:C:189:LEU:HD12	1:C:207:SER:HB3	2.03	0.41
1:C:480:LYS:O	1:C:483:LEU:HB3	2.20	0.41
1:D:119:GLU:HB2	1:D:121:PRO:N	2.36	0.41
1:D:121:PRO:HA	1:D:124:THR:OG1	2.21	0.41
1:D:515:ARG:HA	1:D:518:GLU:OE2	2.19	0.41
1:D:540:LEU:HD13	1:D:622:ALA:HB2	2.03	0.41
1:E:105:ARG:HG3	1:E:105:ARG:NH1	2.31	0.41
1:E:139:ASN:O	1:E:141:ILE:HG13	2.21	0.41
1:F:222:PHE:CB	1:F:255:PHE:HB3	2.50	0.41
1:F:488:SER:O	1:F:489:SER:C	2.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:540:LEU:CD1	1:F:622:ALA:HB2	2.50	0.41
1:G:142:ILE:HG22	1:G:144:ARG:H	1.86	0.41
1:G:198:LYS:O	1:G:200:THR:N	2.42	0.41
1:G:606:ILE:O	1:G:607:LEU:C	2.63	0.41
1:H:25:GLY:HA2	1:H:169:TYR:OH	2.21	0.41
1:H:533:LEU:O	1:H:537:MET:HG2	2.20	0.41
1:H:564:GLU:HG2	1:H:564:GLU:O	2.20	0.41
1:H:610:ASP:O	1:H:613:SER:HB3	2.20	0.41
1:A:246:TYR:CE1	1:A:258:VAL:HB	2.45	0.41
1:A:471:SER:C	1:A:473:THR:N	2.79	0.41
1:A:560:LEU:C	1:A:560:LEU:HD23	2.46	0.41
1:B:55:ARG:HE	1:B:55:ARG:HB2	1.53	0.41
1:B:103:ASP:O	1:B:104:LEU:C	2.63	0.41
1:B:222:PHE:HB2	1:B:255:PHE:HD2	1.86	0.41
1:B:245:VAL:O	1:B:257:SER:C	2.63	0.41
1:B:285:GLN:O	1:B:285:GLN:CG	2.69	0.41
1:B:482:LYS:C	1:B:484:ASP:H	2.29	0.41
1:B:629:VAL:HG12	1:B:629:VAL:O	2.21	0.41
1:B:632:VAL:HB	1:B:633:MET:HE2	2.02	0.41
1:B:656:ASN:OD1	1:B:656:ASN:O	2.39	0.41
1:C:148:PRO:HD2	1:C:149:GLU:OE2	2.21	0.41
1:C:263:ASN:CG	1:C:264:HIS:N	2.79	0.41
1:C:387:ILE:HG21	1:C:450:GLY:HA2	2.03	0.41
1:C:437:ILE:HG12	1:C:597:ALA:HB3	2.03	0.41
1:C:493:ASP:C	1:C:495:GLU:N	2.79	0.41
1:C:560:LEU:HD23	1:C:560:LEU:C	2.45	0.41
1:C:654:LEU:HD12	1:D:655:TRP:CZ3	2.56	0.41
1:C:655:TRP:CZ3	1:D:654:LEU:HD12	2.56	0.41
1:D:72:ASN:O	1:D:164:ILE:HG22	2.21	0.41
1:D:118:LYS:CB	1:D:264:HIS:O	2.69	0.41
1:D:416:ASP:C	1:D:418:LYS:H	2.29	0.41
1:D:484:ASP:OD1	1:D:487:ARG:NH1	2.54	0.41
1:D:564:GLU:O	1:D:564:GLU:HG2	2.20	0.41
1:E:118:LYS:HB3	1:E:264:HIS:C	2.46	0.41
1:E:142:ILE:HG12	1:E:201:VAL:HA	2.02	0.41
1:E:193:LEU:O	1:E:194:LEU:C	2.64	0.41
1:E:260:PRO:HB2	1:E:273:LEU:CD1	2.50	0.41
1:E:268:ILE:HD12	1:E:268:ILE:HA	1.90	0.41
1:E:273:LEU:O	1:E:276:TRP:N	2.54	0.41
1:E:373:ASP:O	1:E:374:CYS:CB	2.67	0.41
1:E:459:LEU:HD23	1:E:459:LEU:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:471:SER:C	1:E:473:THR:N	2.78	0.41
1:E:486:PHE:O	1:E:486:PHE:CG	2.73	0.41
1:E:503:PHE:C	1:E:505:ILE:N	2.76	0.41
1:E:503:PHE:N	1:E:505:ILE:HD11	2.29	0.41
1:E:515:ARG:HA	1:E:518:GLU:OE2	2.21	0.41
1:E:527:GLU:HG2	1:E:530:VAL:CG1	2.50	0.41
1:E:528:ARG:HA	1:E:530:VAL:HG22	2.03	0.41
1:F:148:PRO:HG3	1:F:188:TYR:OH	2.21	0.41
1:F:276:TRP:HE3	1:F:277:LEU:HD23	1.85	0.41
1:F:475:GLU:HG2	1:F:636:MET:CE	2.45	0.41
1:F:500:GLN:C	1:F:505:ILE:HG12	2.46	0.41
1:F:579:ARG:NH2	1:G:580:ASP:HB3	2.36	0.41
1:G:118:LYS:HZ1	1:G:123:ARG:HH22	1.68	0.41
1:G:119:GLU:HB3	1:G:121:PRO:CD	2.43	0.41
1:G:273:LEU:O	1:G:276:TRP:N	2.54	0.41
1:G:276:TRP:CE2	1:G:280:MET:HG3	2.55	0.41
1:G:346:ILE:HA	1:G:347:PRO:HD3	1.84	0.41
1:G:567:ALA:O	1:G:571:TYR:CD1	2.74	0.41
1:G:628:LYS:C	1:G:630:LYS:H	2.29	0.41
1:H:107:TYR:CA	1:H:110:GLN:HB2	2.51	0.41
1:H:159:ARG:HD3	1:H:375:THR:HG21	2.03	0.41
1:H:169:TYR:CD2	1:H:169:TYR:N	2.89	0.41
1:H:425:HIS:C	1:H:426:LEU:HD23	2.45	0.41
1:H:591:VAL:O	1:H:592:ARG:C	2.64	0.41
1:A:148:PRO:HG3	1:A:188:TYR:OH	2.20	0.41
1:A:193:LEU:O	1:A:194:LEU:C	2.64	0.41
1:A:455:MET:O	1:A:455:MET:CE	2.65	0.41
1:B:125:LEU:HD12	1:B:129:ILE:HG12	2.02	0.41
1:B:254:LYS:C	1:B:255:PHE:CD2	2.97	0.41
1:B:373:ASP:O	1:B:374:CYS:CB	2.69	0.41
1:B:455:MET:HE3	1:B:455:MET:HB2	1.94	0.41
1:B:475:GLU:C	1:B:477:GLU:H	2.23	0.41
1:B:502:GLU:OE1	1:B:502:GLU:N	2.54	0.41
1:B:603:LYS:O	1:B:606:ILE:HG13	2.21	0.41
1:D:222:PHE:CB	1:D:255:PHE:HB3	2.51	0.41
1:D:346:ILE:HA	1:D:347:PRO:HD3	1.83	0.41
1:E:148:PRO:HD2	1:E:149:GLU:OE2	2.21	0.41
1:E:213:PHE:O	1:E:214:GLU:C	2.64	0.41
1:E:476:CYS:HB2	1:E:636:MET:SD	2.61	0.41
1:E:654:LEU:HD21	1:F:654:LEU:HD21	1.70	0.41
1:F:118:LYS:HZ2	1:F:123:ARG:HH12	1.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:210:THR:N	1:F:281:LEU:HD11	2.35	0.41
1:F:438:ARG:HG2	1:F:564:GLU:OE1	2.21	0.41
1:F:539:ALA:O	1:F:543:ASP:HB2	2.21	0.41
1:G:222:PHE:HB2	1:G:255:PHE:HD2	1.85	0.41
1:G:261:THR:HB	1:G:262:PRO:HD2	2.03	0.41
1:G:436:THR:O	1:G:440:LEU:HG	2.20	0.41
1:H:58:TRP:CZ3	1:H:62:ILE:HG13	2.57	0.41
1:H:140:ARG:NH2	1:H:174:ASP:OD2	2.52	0.41
1:H:276:TRP:CE2	1:H:280:MET:HG3	2.56	0.41
1:H:583:THR:O	1:H:585:GLY:N	2.54	0.41
1:A:150:ASN:ND2	1:A:167:LEU:CD1	2.82	0.40
1:A:277:LEU:C	1:A:279:CYS:N	2.75	0.40
1:B:260:PRO:HB2	1:B:273:LEU:CD1	2.49	0.40
1:B:505:ILE:O	1:B:505:ILE:HG22	2.22	0.40
1:C:186:LEU:HD23	1:C:227:GLN:HG2	2.03	0.40
1:C:208:PHE:O	1:C:211:LEU:HB3	2.22	0.40
1:C:357:SER:HB3	1:C:453:THR:CB	2.41	0.40
1:D:169:TYR:N	1:D:169:TYR:CD2	2.89	0.40
1:D:206:TRP:CD1	1:D:207:SER:N	2.89	0.40
1:E:50:LEU:N	1:E:55:ARG:HD3	2.35	0.40
1:E:467:LYS:HD3	1:E:467:LYS:HA	1.75	0.40
1:F:143:HIS:NE2	1:F:167:LEU:HB2	2.35	0.40
1:F:195:GLU:O	1:F:196:GLN:HB2	2.20	0.40
1:F:441:LYS:HB2	1:F:560:LEU:HD22	2.03	0.40
1:G:373:ASP:O	1:G:374:CYS:CB	2.68	0.40
1:H:68:LEU:HD11	1:H:141:ILE:CD1	2.51	0.40
1:H:172:GLU:O	1:H:173:LEU:C	2.63	0.40
1:H:437:ILE:HG12	1:H:597:ALA:HB3	2.03	0.40
1:H:449:GLN:O	1:H:453:THR:HG23	2.21	0.40
1:H:451:GLN:NE2	1:H:611:GLN:NE2	2.68	0.40
1:A:629:VAL:HG12	1:A:629:VAL:O	2.21	0.40
1:B:208:PHE:O	1:B:211:LEU:HB3	2.21	0.40
1:B:425:HIS:C	1:B:426:LEU:HD23	2.46	0.40
1:C:614:LYS:HD3	1:C:614:LYS:HA	1.80	0.40
1:D:269:LEU:HD23	1:D:269:LEU:HA	1.89	0.40
1:D:361:LEU:HD23	1:D:361:LEU:HA	1.85	0.40
1:D:493:ASP:C	1:D:495:GLU:H	2.29	0.40
1:D:567:ALA:O	1:D:571:TYR:CD1	2.74	0.40
1:D:658:LEU:C	1:D:660:ILE:H	2.29	0.40
1:E:336:LEU:O	1:E:340:LEU:N	2.54	0.40
1:E:428:ARG:HB2	1:E:429:VAL:H	1.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:545:VAL:HG13	1:E:548:GLN:NE2	2.36	0.40
1:F:33:ILE:HD11	1:F:40:GLN:OE1	2.21	0.40
1:F:497:TYR:CD2	1:F:511:LEU:HD22	2.50	0.40
1:G:212:ALA:O	1:G:215:CYS:N	2.55	0.40
1:G:423:TYR:CE1	1:G:425:HIS:O	2.74	0.40
1:G:571:TYR:OH	1:G:590:MET:SD	2.79	0.40
1:H:336:LEU:O	1:H:337:LYS:C	2.65	0.40
1:A:208:PHE:O	1:A:211:LEU:HB3	2.21	0.40
1:A:285:GLN:O	1:A:285:GLN:CG	2.69	0.40
1:A:438:ARG:HH11	1:A:568:ARG:HH21	1.67	0.40
1:A:449:GLN:O	1:A:453:THR:HG23	2.20	0.40
1:A:488:SER:O	1:A:492:ILE:HG22	2.21	0.40
1:B:276:TRP:CE2	1:B:280:MET:HG3	2.56	0.40
1:C:120:GLY:O	1:C:123:ARG:CA	2.69	0.40
1:C:135:TYR:O	1:C:139:ASN:ND2	2.52	0.40
1:C:434:TRP:HZ3	1:C:568:ARG:CB	2.35	0.40
1:C:441:LYS:HB2	1:C:560:LEU:HD21	2.02	0.40
1:C:481:ALA:O	1:C:484:ASP:HB2	2.22	0.40
1:C:485:PHE:CB	1:D:485:PHE:CE2	3.05	0.40
1:D:50:LEU:N	1:D:55:ARG:HD3	2.36	0.40
1:D:60:LEU:HD21	1:D:175:GLN:HB3	2.03	0.40
1:D:103:ASP:O	1:D:104:LEU:C	2.64	0.40
1:D:142:ILE:HG22	1:D:144:ARG:H	1.86	0.40
1:E:209:GLY:O	1:E:212:ALA:HB3	2.21	0.40
1:E:246:TYR:CE1	1:E:258:VAL:HB	2.44	0.40
1:E:316:ASN:O	1:E:317:MET:HG2	2.21	0.40
1:E:414:LEU:O	1:E:418:LYS:HB2	2.22	0.40
1:E:632:VAL:HB	1:E:633:MET:HE2	2.04	0.40
1:E:654:LEU:HD22	1:F:654:LEU:CD2	2.45	0.40
1:F:32:TRP:HD1	1:F:43:ILE:HD13	1.86	0.40
1:F:260:PRO:HB3	1:F:273:LEU:CD2	2.51	0.40
1:F:486:PHE:O	1:F:486:PHE:CG	2.75	0.40
1:G:105:ARG:NE	1:G:149:GLU:OE2	2.55	0.40
1:G:247:ASP:HB3	1:G:248:ASP:H	1.47	0.40
1:G:402:SER:HB2	1:G:403:LEU:H	1.66	0.40
1:G:409:SER:CB	1:G:412:ILE:CD1	2.92	0.40
1:G:416:ASP:C	1:G:418:LYS:H	2.29	0.40
1:G:434:TRP:O	1:G:435:GLN:C	2.62	0.40
1:H:254:LYS:C	1:H:255:PHE:CD1	2.98	0.40
1:A:120:GLY:C	1:A:123:ARG:H	2.29	0.40
1:A:588:ASN:C	1:A:590:MET:H	2.30	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:110:GLN:HB3	1:B:113:ASN:ND2	2.35	0.40
1:B:247:ASP:HB3	1:B:248:ASP:H	1.50	0.40
1:B:260:PRO:O	1:B:261:THR:OG1	2.37	0.40
1:B:316:ASN:N	1:B:321:ARG:O	2.54	0.40
1:B:484:ASP:OD1	1:B:487:ARG:NH1	2.54	0.40
1:C:28:TYR:HD2	1:C:45:GLN:NE2	2.19	0.40
1:C:32:TRP:HD1	1:C:43:ILE:HD13	1.86	0.40
1:C:103:ASP:O	1:C:104:LEU:C	2.64	0.40
1:C:172:GLU:O	1:C:173:LEU:C	2.63	0.40
1:C:273:LEU:HB3	1:C:274:GLU:H	1.73	0.40
1:C:312:LEU:O	1:C:324:THR:HG23	2.21	0.40
1:C:462:ASN:ND2	1:C:540:LEU:HB3	2.37	0.40
1:C:485:PHE:CG	1:D:485:PHE:CE2	3.09	0.40
1:C:632:VAL:O	1:C:633:MET:SD	2.79	0.40
1:D:143:HIS:NE2	1:D:167:LEU:HB2	2.36	0.40
1:D:296:ASN:CG	1:D:297:VAL:N	2.80	0.40
1:D:307:LEU:O	1:D:307:LEU:HD23	2.20	0.40
1:D:434:TRP:NE1	1:D:435:GLN:OE1	2.55	0.40
1:D:471:SER:C	1:D:473:THR:N	2.77	0.40
1:D:476:CYS:CB	1:D:636:MET:SD	3.09	0.40
1:E:321:ARG:NE	1:E:443:ASP:OD1	2.54	0.40
1:E:406:HIS:HA	1:E:407:PRO:HD2	1.84	0.40
1:E:426:LEU:O	1:E:430:TRP:N	2.45	0.40
1:E:449:GLN:O	1:E:453:THR:HG23	2.21	0.40
1:F:276:TRP:CE2	1:F:280:MET:HG3	2.56	0.40
1:F:481:ALA:O	1:F:484:ASP:HB2	2.22	0.40
1:F:490:ILE:O	1:F:490:ILE:CG2	2.68	0.40
1:F:569:ASP:HA	1:F:572:ARG:HB3	2.03	0.40
1:G:58:TRP:CZ3	1:G:62:ILE:HG13	2.57	0.40
1:G:565:GLU:O	1:G:568:ARG:HB3	2.22	0.40
1:G:567:ALA:O	1:G:571:TYR:HD1	2.03	0.40
1:G:569:ASP:HA	1:G:572:ARG:HB3	2.03	0.40
1:H:33:ILE:HD11	1:H:40:GLN:OE1	2.21	0.40
1:H:185:THR:CG2	1:H:187:GLN:CG	2.83	0.40
1:H:471:SER:C	1:H:473:THR:N	2.79	0.40
1:H:629:VAL:O	1:H:629:VAL:HG12	2.21	0.40
1:A:222:PHE:CZ	1:A:225:ASN:CB	3.04	0.40
1:A:346:ILE:HA	1:A:347:PRO:HD3	1.84	0.40
1:A:530:VAL:CA	1:A:533:LEU:HD12	2.32	0.40
1:A:565:GLU:O	1:A:568:ARG:HB3	2.20	0.40
1:B:28:TYR:HD2	1:B:45:GLN:NE2	2.19	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:104:LEU:N	1:B:151:ILE:O	2.33	0.40
1:B:135:TYR:O	1:B:139:ASN:ND2	2.51	0.40
1:B:272:LYS:HG2	1:B:273:LEU:HA	2.02	0.40
1:B:333:LEU:O	1:B:336:LEU:N	2.54	0.40
1:C:291:ASP:HA	1:C:292:PRO:HD3	1.82	0.40
1:D:33:ILE:HD11	1:D:40:GLN:OE1	2.21	0.40
1:D:70:HIS:NE2	1:D:131:SER:O	2.54	0.40
1:D:254:LYS:C	1:D:255:PHE:CD2	2.99	0.40
1:D:272:LYS:HG2	1:D:273:LEU:HA	2.03	0.40
1:F:114:CYS:O	1:F:114:CYS:SG	2.80	0.40
1:F:186:LEU:HD23	1:F:227:GLN:HG2	2.03	0.40
1:F:410:VAL:O	1:F:413:VAL:HG12	2.22	0.40
1:F:482:LYS:C	1:F:484:ASP:H	2.29	0.40
1:F:560:LEU:HD23	1:F:560:LEU:C	2.46	0.40
1:F:632:VAL:HB	1:F:633:MET:HE2	2.03	0.40
1:G:122:ILE:O	1:G:126:LEU:HB2	2.22	0.40
1:G:269:LEU:HD22	1:G:272:LYS:HB3	2.03	0.40
1:G:473:THR:HB	1:G:533:LEU:HD13	2.04	0.40
1:H:333:LEU:O	1:H:336:LEU:N	2.55	0.40
1:H:569:ASP:HA	1:H:572:ARG:HB3	2.03	0.40

All (6) 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:A:501:MET:SD	1:E:364:ALA:O[1_565]	1.61	0.59
1:E:515:ARG:NH1	1:H:394:LYS:NZ[1_465]	1.76	0.44
1:B:617:VAL:CG2	1:C:519:GLN:OE1[1_465]	1.96	0.24
1:A:522:GLU:OE1	1:C:295:PRO:CB[1_565]	2.01	0.19
1:A:522:GLU:OE1	1:C:295:PRO:CG[1_565]	2.04	0.16
1:B:394:LYS:NZ	1:C:515:ARG:NH1[1_465]	2.19	0.01

5.3 Torsion angles

5.3.1 Protein backbone

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all 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	610/676 (90%)	360 (59%)	145 (24%)	105 (17%)	0	2
1	B	610/676 (90%)	362 (59%)	143 (23%)	105 (17%)	0	2
1	C	610/676 (90%)	359 (59%)	147 (24%)	104 (17%)	0	2
1	D	610/676 (90%)	363 (60%)	143 (23%)	104 (17%)	0	2
1	E	610/676 (90%)	361 (59%)	147 (24%)	102 (17%)	0	2
1	F	610/676 (90%)	362 (59%)	144 (24%)	104 (17%)	0	2
1	G	527/676 (78%)	310 (59%)	126 (24%)	91 (17%)	0	1
1	H	527/676 (78%)	313 (59%)	121 (23%)	93 (18%)	0	1
All	All	4714/5408 (87%)	2790 (59%)	1116 (24%)	808 (17%)	0	2

All (808) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	101	GLY
1	A	106	LYS
1	A	110	GLN
1	A	111	PHE
1	A	166	ASP
1	A	171	LYS
1	A	183	VAL
1	A	187	GLN
1	A	191	PRO
1	A	195	GLU
1	A	202	THR
1	A	214	GLU
1	A	231	TRP
1	A	235	VAL
1	A	300	PHE
1	A	319	SER
1	A	330	ASN
1	A	350	GLU
1	A	359	LEU
1	A	372	ILE
1	A	403	LEU
1	A	419	ARG
1	A	420	PRO
1	A	424	THR

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Mol	Chain	Res	Type
1	A	506	THR
1	A	528	ARG
1	A	582	ARG
1	A	584	PRO
1	A	588	ASN
1	B	101	GLY
1	B	106	LYS
1	B	110	GLN
1	B	111	PHE
1	B	166	ASP
1	B	171	LYS
1	B	183	VAL
1	B	187	GLN
1	B	191	PRO
1	B	195	GLU
1	B	201	VAL
1	B	202	THR
1	B	231	TRP
1	B	235	VAL
1	B	300	PHE
1	B	319	SER
1	B	330	ASN
1	B	350	GLU
1	B	359	LEU
1	B	363	SER
1	B	372	ILE
1	B	403	LEU
1	B	419	ARG
1	B	420	PRO
1	B	424	THR
1	B	506	THR
1	B	528	ARG
1	B	582	ARG
1	B	584	PRO
1	B	661	ALA
1	C	101	GLY
1	C	106	LYS
1	C	110	GLN
1	C	111	PHE
1	C	166	ASP
1	C	171	LYS
1	C	183	VAL

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Mol	Chain	Res	Type
1	C	187	GLN
1	C	191	PRO
1	C	195	GLU
1	C	201	VAL
1	C	202	THR
1	C	231	TRP
1	C	235	VAL
1	C	273	LEU
1	C	300	PHE
1	C	319	SER
1	C	330	ASN
1	C	350	GLU
1	C	359	LEU
1	C	363	SER
1	C	372	ILE
1	C	403	LEU
1	C	419	ARG
1	C	420	PRO
1	C	424	THR
1	C	506	THR
1	C	528	ARG
1	C	582	ARG
1	C	584	PRO
1	C	661	ALA
1	D	101	GLY
1	D	106	LYS
1	D	110	GLN
1	D	111	PHE
1	D	166	ASP
1	D	171	LYS
1	D	183	VAL
1	D	187	GLN
1	D	191	PRO
1	D	195	GLU
1	D	201	VAL
1	D	202	THR
1	D	231	TRP
1	D	235	VAL
1	D	300	PHE
1	D	319	SER
1	D	330	ASN
1	D	350	GLU

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Mol	Chain	Res	Type
1	D	359	LEU
1	D	363	SER
1	D	372	ILE
1	D	386	LEU
1	D	403	LEU
1	D	419	ARG
1	D	420	PRO
1	D	424	THR
1	D	506	THR
1	D	582	ARG
1	D	584	PRO
1	D	661	ALA
1	E	101	GLY
1	E	106	LYS
1	E	110	GLN
1	E	111	PHE
1	E	166	ASP
1	E	171	LYS
1	E	183	VAL
1	E	187	GLN
1	E	191	PRO
1	E	195	GLU
1	E	202	THR
1	E	231	TRP
1	E	235	VAL
1	E	273	LEU
1	E	300	PHE
1	E	319	SER
1	E	330	ASN
1	E	350	GLU
1	E	359	LEU
1	E	372	ILE
1	E	403	LEU
1	E	419	ARG
1	E	420	PRO
1	E	424	THR
1	E	506	THR
1	E	582	ARG
1	E	584	PRO
1	E	661	ALA
1	F	101	GLY
1	F	106	LYS

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Mol	Chain	Res	Type
1	F	110	GLN
1	F	111	PHE
1	F	166	ASP
1	F	171	LYS
1	F	183	VAL
1	F	187	GLN
1	F	191	PRO
1	F	195	GLU
1	F	201	VAL
1	F	202	THR
1	F	214	GLU
1	F	231	TRP
1	F	235	VAL
1	F	273	LEU
1	F	300	PHE
1	F	319	SER
1	F	330	ASN
1	F	350	GLU
1	F	359	LEU
1	F	372	ILE
1	F	403	LEU
1	F	419	ARG
1	F	420	PRO
1	F	424	THR
1	F	506	THR
1	F	582	ARG
1	F	584	PRO
1	G	101	GLY
1	G	106	LYS
1	G	110	GLN
1	G	111	PHE
1	G	166	ASP
1	G	171	LYS
1	G	183	VAL
1	G	187	GLN
1	G	191	PRO
1	G	195	GLU
1	G	201	VAL
1	G	202	THR
1	G	231	TRP
1	G	235	VAL
1	G	273	LEU

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Mol	Chain	Res	Type
1	G	300	PHE
1	G	319	SER
1	G	330	ASN
1	G	350	GLU
1	G	359	LEU
1	G	363	SER
1	G	372	ILE
1	G	403	LEU
1	G	419	ARG
1	G	420	PRO
1	G	424	THR
1	G	582	ARG
1	G	584	PRO
1	H	101	GLY
1	H	106	LYS
1	H	110	GLN
1	H	111	PHE
1	H	166	ASP
1	H	171	LYS
1	H	183	VAL
1	H	187	GLN
1	H	191	PRO
1	H	195	GLU
1	H	201	VAL
1	H	202	THR
1	H	231	TRP
1	H	235	VAL
1	H	273	LEU
1	H	300	PHE
1	H	319	SER
1	H	330	ASN
1	H	350	GLU
1	H	359	LEU
1	H	372	ILE
1	H	403	LEU
1	H	419	ARG
1	H	420	PRO
1	H	424	THR
1	H	582	ARG
1	H	584	PRO
1	H	588	ASN
1	A	36	ASP

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Mol	Chain	Res	Type
1	A	74	VAL
1	A	103	ASP
1	A	134	ARG
1	A	179	CYS
1	A	184	GLY
1	A	189	LEU
1	A	201	VAL
1	A	222	PHE
1	A	250	THR
1	A	251	GLY
1	A	273	LEU
1	A	298	GLY
1	A	308	SER
1	A	317	MET
1	A	363	SER
1	A	371	VAL
1	A	374	CYS
1	A	385	ASP
1	A	386	LEU
1	A	503	PHE
1	A	661	ALA
1	B	36	ASP
1	B	74	VAL
1	B	103	ASP
1	B	134	ARG
1	B	160	LEU
1	B	179	CYS
1	B	184	GLY
1	B	189	LEU
1	B	214	GLU
1	B	222	PHE
1	B	250	THR
1	B	251	GLY
1	B	273	LEU
1	B	298	GLY
1	B	317	MET
1	B	320	GLY
1	B	321	ARG
1	B	371	VAL
1	B	374	CYS
1	B	385	ASP
1	B	386	LEU

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Mol	Chain	Res	Type
1	B	476	CYS
1	B	588	ASN
1	C	36	ASP
1	C	74	VAL
1	C	85	LYS
1	C	134	ARG
1	C	160	LEU
1	C	179	CYS
1	C	184	GLY
1	C	214	GLU
1	C	222	PHE
1	C	230	GLN
1	C	250	THR
1	C	251	GLY
1	C	298	GLY
1	C	308	SER
1	C	317	MET
1	C	371	VAL
1	C	374	CYS
1	C	385	ASP
1	C	386	LEU
1	C	427	ARG
1	C	588	ASN
1	C	643	VAL
1	D	36	ASP
1	D	74	VAL
1	D	103	ASP
1	D	134	ARG
1	D	160	LEU
1	D	179	CYS
1	D	184	GLY
1	D	189	LEU
1	D	213	PHE
1	D	214	GLU
1	D	222	PHE
1	D	250	THR
1	D	251	GLY
1	D	273	LEU
1	D	298	GLY
1	D	317	MET
1	D	320	GLY
1	D	321	ARG

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Mol	Chain	Res	Type
1	D	371	VAL
1	D	374	CYS
1	D	385	ASP
1	D	528	ARG
1	D	588	ASN
1	D	643	VAL
1	E	36	ASP
1	E	74	VAL
1	E	103	ASP
1	E	134	ARG
1	E	160	LEU
1	E	179	CYS
1	E	184	GLY
1	E	189	LEU
1	E	201	VAL
1	E	214	GLU
1	E	222	PHE
1	E	250	THR
1	E	251	GLY
1	E	298	GLY
1	E	308	SER
1	E	317	MET
1	E	320	GLY
1	E	363	SER
1	E	371	VAL
1	E	374	CYS
1	E	385	ASP
1	E	386	LEU
1	E	503	PHE
1	E	528	ARG
1	E	588	ASN
1	E	643	VAL
1	F	36	ASP
1	F	74	VAL
1	F	103	ASP
1	F	134	ARG
1	F	160	LEU
1	F	179	CYS
1	F	184	GLY
1	F	189	LEU
1	F	213	PHE
1	F	222	PHE

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Mol	Chain	Res	Type
1	F	250	THR
1	F	251	GLY
1	F	298	GLY
1	F	308	SER
1	F	317	MET
1	F	320	GLY
1	F	363	SER
1	F	371	VAL
1	F	374	CYS
1	F	385	ASP
1	F	386	LEU
1	F	503	PHE
1	F	588	ASN
1	F	643	VAL
1	F	661	ALA
1	G	36	ASP
1	G	74	VAL
1	G	103	ASP
1	G	134	ARG
1	G	160	LEU
1	G	179	CYS
1	G	184	GLY
1	G	189	LEU
1	G	214	GLU
1	G	222	PHE
1	G	230	GLN
1	G	250	THR
1	G	251	GLY
1	G	298	GLY
1	G	308	SER
1	G	317	MET
1	G	371	VAL
1	G	374	CYS
1	G	385	ASP
1	G	386	LEU
1	G	588	ASN
1	H	36	ASP
1	H	74	VAL
1	H	103	ASP
1	H	134	ARG
1	H	160	LEU
1	H	179	CYS

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Mol	Chain	Res	Type
1	H	184	GLY
1	H	189	LEU
1	H	222	PHE
1	H	230	GLN
1	H	250	THR
1	H	251	GLY
1	H	298	GLY
1	H	308	SER
1	H	317	MET
1	H	363	SER
1	H	371	VAL
1	H	374	CYS
1	H	385	ASP
1	H	386	LEU
1	A	48	GLN
1	A	49	GLU
1	A	85	LYS
1	A	105	ARG
1	A	115	CYS
1	A	160	LEU
1	A	194	LEU
1	A	213	PHE
1	A	218	GLY
1	A	230	GLN
1	A	234	LYS
1	A	320	GLY
1	A	321	ARG
1	A	333	LEU
1	A	348	GLU
1	A	364	ALA
1	A	409	SER
1	A	507	SER
1	A	508	GLU
1	A	530	VAL
1	A	550	ASN
1	A	583	THR
1	A	587	SER
1	A	597	ALA
1	A	643	VAL
1	B	48	GLN
1	B	49	GLU
1	B	85	LYS

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Mol	Chain	Res	Type
1	B	105	ARG
1	B	115	CYS
1	B	194	LEU
1	B	213	PHE
1	B	218	GLY
1	B	230	GLN
1	B	234	LYS
1	B	308	SER
1	B	333	LEU
1	B	348	GLU
1	B	364	ALA
1	B	409	SER
1	B	427	ARG
1	B	450	GLY
1	B	489	SER
1	B	507	SER
1	B	508	GLU
1	B	530	VAL
1	B	550	ASN
1	B	583	THR
1	B	587	SER
1	B	597	ALA
1	B	643	VAL
1	C	48	GLN
1	C	49	GLU
1	C	103	ASP
1	C	105	ARG
1	C	115	CYS
1	C	189	LEU
1	C	194	LEU
1	C	213	PHE
1	C	234	LYS
1	C	320	GLY
1	C	321	ARG
1	C	333	LEU
1	C	348	GLU
1	C	364	ALA
1	C	409	SER
1	C	450	GLY
1	C	483	LEU
1	C	489	SER
1	C	503	PHE

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Mol	Chain	Res	Type
1	C	508	GLU
1	C	530	VAL
1	C	550	ASN
1	C	583	THR
1	C	587	SER
1	C	597	ALA
1	D	48	GLN
1	D	49	GLU
1	D	85	LYS
1	D	105	ARG
1	D	115	CYS
1	D	194	LEU
1	D	230	GLN
1	D	234	LYS
1	D	308	SER
1	D	333	LEU
1	D	348	GLU
1	D	364	ALA
1	D	409	SER
1	D	450	GLY
1	D	483	LEU
1	D	503	PHE
1	D	508	GLU
1	D	530	VAL
1	D	550	ASN
1	D	583	THR
1	D	587	SER
1	D	597	ALA
1	E	48	GLN
1	E	49	GLU
1	E	85	LYS
1	E	115	CYS
1	E	194	LEU
1	E	213	PHE
1	E	230	GLN
1	E	234	LYS
1	E	321	ARG
1	E	333	LEU
1	E	348	GLU
1	E	364	ALA
1	E	409	SER
1	E	427	ARG

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Mol	Chain	Res	Type
1	E	483	LEU
1	E	507	SER
1	E	508	GLU
1	E	530	VAL
1	E	550	ASN
1	E	583	THR
1	E	587	SER
1	F	49	GLU
1	F	85	LYS
1	F	105	ARG
1	F	115	CYS
1	F	194	LEU
1	F	218	GLY
1	F	230	GLN
1	F	234	LYS
1	F	321	ARG
1	F	333	LEU
1	F	348	GLU
1	F	364	ALA
1	F	409	SER
1	F	489	SER
1	F	507	SER
1	F	508	GLU
1	F	528	ARG
1	F	530	VAL
1	F	550	ASN
1	F	583	THR
1	F	587	SER
1	G	48	GLN
1	G	49	GLU
1	G	85	LYS
1	G	194	LEU
1	G	213	PHE
1	G	218	GLY
1	G	234	LYS
1	G	320	GLY
1	G	321	ARG
1	G	333	LEU
1	G	348	GLU
1	G	409	SER
1	G	530	VAL
1	G	550	ASN

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Mol	Chain	Res	Type
1	G	583	THR
1	G	587	SER
1	G	597	ALA
1	H	48	GLN
1	H	49	GLU
1	H	85	LYS
1	H	105	ARG
1	H	115	CYS
1	H	194	LEU
1	H	214	GLU
1	H	234	LYS
1	H	320	GLY
1	H	321	ARG
1	H	333	LEU
1	H	348	GLU
1	H	364	ALA
1	H	409	SER
1	H	427	ARG
1	H	450	GLY
1	H	530	VAL
1	H	550	ASN
1	H	583	THR
1	H	587	SER
1	H	597	ALA
1	A	121	PRO
1	A	144	ARG
1	A	199	TYR
1	A	284	HIS
1	A	418	LYS
1	A	427	ARG
1	A	450	GLY
1	A	483	LEU
1	A	489	SER
1	A	549	ARG
1	A	629	VAL
1	B	121	PRO
1	B	144	ARG
1	B	199	TYR
1	B	284	HIS
1	B	309	LEU
1	B	418	LYS
1	B	503	PHE

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Mol	Chain	Res	Type
1	B	549	ARG
1	B	629	VAL
1	C	78	GLU
1	C	121	PRO
1	C	144	ARG
1	C	218	GLY
1	C	284	HIS
1	C	418	LYS
1	C	507	SER
1	C	549	ARG
1	C	629	VAL
1	D	121	PRO
1	D	144	ARG
1	D	218	GLY
1	D	418	LYS
1	D	427	ARG
1	D	489	SER
1	D	507	SER
1	D	549	ARG
1	D	629	VAL
1	D	644	VAL
1	E	105	ARG
1	E	121	PRO
1	E	144	ARG
1	E	218	GLY
1	E	418	LYS
1	E	450	GLY
1	E	489	SER
1	E	549	ARG
1	E	597	ALA
1	E	629	VAL
1	F	48	GLN
1	F	144	ARG
1	F	418	LYS
1	F	427	ARG
1	F	450	GLY
1	F	483	LEU
1	F	549	ARG
1	F	597	ALA
1	F	629	VAL
1	G	105	ARG
1	G	115	CYS

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Mol	Chain	Res	Type
1	G	121	PRO
1	G	144	ARG
1	G	364	ALA
1	G	418	LYS
1	G	427	ARG
1	G	549	ARG
1	G	629	VAL
1	H	121	PRO
1	H	144	ARG
1	H	213	PHE
1	H	218	GLY
1	H	284	HIS
1	H	309	LEU
1	H	418	LYS
1	H	549	ARG
1	H	629	VAL
1	A	72	ASN
1	A	78	GLU
1	A	220	ARG
1	A	227	GLN
1	A	261	THR
1	A	309	LEU
1	A	445	ALA
1	A	644	VAL
1	B	72	ASN
1	B	78	GLU
1	B	220	ARG
1	B	261	THR
1	B	388	PHE
1	B	483	LEU
1	B	644	VAL
1	C	72	ASN
1	C	220	ARG
1	C	261	THR
1	C	445	ALA
1	C	644	VAL
1	D	78	GLU
1	D	220	ARG
1	D	261	THR
1	D	284	HIS
1	D	309	LEU
1	D	388	PHE

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Mol	Chain	Res	Type
1	D	445	ALA
1	E	35	GLN
1	E	78	GLU
1	E	220	ARG
1	E	261	THR
1	E	284	HIS
1	E	644	VAL
1	F	78	GLU
1	F	121	PRO
1	F	199	TYR
1	F	220	ARG
1	F	261	THR
1	F	284	HIS
1	F	388	PHE
1	F	431	GLY
1	F	445	ALA
1	F	644	VAL
1	G	72	ASN
1	G	78	GLU
1	G	193	LEU
1	G	220	ARG
1	G	227	GLN
1	G	261	THR
1	G	284	HIS
1	G	309	LEU
1	G	450	GLY
1	H	78	GLU
1	H	220	ARG
1	H	261	THR
1	H	431	GLY
1	H	445	ALA
1	A	35	GLN
1	A	388	PHE
1	A	431	GLY
1	A	626	SER
1	A	665	VAL
1	B	227	GLN
1	B	431	GLY
1	B	577	ARG
1	B	626	SER
1	B	665	VAL
1	C	193	LEU

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Mol	Chain	Res	Type
1	C	199	TYR
1	C	227	GLN
1	C	388	PHE
1	C	431	GLY
1	C	577	ARG
1	C	626	SER
1	C	665	VAL
1	D	199	TYR
1	D	227	GLN
1	D	626	SER
1	D	665	VAL
1	E	72	ASN
1	E	431	GLY
1	E	445	ALA
1	E	577	ARG
1	E	626	SER
1	E	665	VAL
1	F	72	ASN
1	F	227	GLN
1	F	626	SER
1	F	665	VAL
1	G	388	PHE
1	G	577	ARG
1	H	72	ASN
1	H	199	TYR
1	A	407	PRO
1	A	577	ARG
1	D	407	PRO
1	D	431	GLY
1	F	577	ARG
1	G	407	PRO
1	G	431	GLY
1	G	626	SER
1	H	227	GLN
1	H	407	PRO
1	H	577	ARG
1	H	626	SER
1	B	165	ILE
1	B	407	PRO
1	C	407	PRO
1	D	165	ILE
1	D	577	ARG

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Mol	Chain	Res	Type
1	E	227	GLN
1	E	407	PRO
1	F	165	ILE
1	F	407	PRO
1	A	165	ILE
1	B	387	ILE
1	C	165	ILE
1	E	165	ILE
1	F	387	ILE
1	G	165	ILE
1	H	165	ILE
1	B	260	PRO
1	D	260	PRO
1	D	295	PRO
1	D	387	ILE
1	E	295	PRO
1	E	387	ILE
1	F	260	PRO
1	F	295	PRO
1	G	260	PRO
1	H	260	PRO
1	H	295	PRO
1	A	260	PRO
1	A	295	PRO
1	B	295	PRO
1	C	260	PRO
1	C	295	PRO
1	H	387	ILE

5.3.2 Protein sidechains ⓘ

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

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	563/609 (92%)	498 (88%)	65 (12%)	5	25
1	B	563/609 (92%)	497 (88%)	66 (12%)	5	25
1	C	563/609 (92%)	496 (88%)	67 (12%)	5	24

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	D	563/609 (92%)	498 (88%)	65 (12%)	5	25
1	E	563/609 (92%)	500 (89%)	63 (11%)	6	27
1	F	563/609 (92%)	498 (88%)	65 (12%)	5	25
1	G	488/609 (80%)	437 (90%)	51 (10%)	6	29
1	H	488/609 (80%)	436 (89%)	52 (11%)	6	28
All	All	4354/4872 (89%)	3860 (89%)	494 (11%)	5	26

All (494) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	16	GLU
1	A	51	SER
1	A	54	ASN
1	A	93	LEU
1	A	108	LEU
1	A	114	CYS
1	A	117	LEU
1	A	122	ILE
1	A	134	ARG
1	A	150	ASN
1	A	203	VAL
1	A	210	THR
1	A	211	LEU
1	A	216	ILE
1	A	244	VAL
1	A	248	ASP
1	A	258	VAL
1	A	263	ASN
1	A	265	LEU
1	A	266	SER
1	A	268	ILE
1	A	278	GLN
1	A	282	MET
1	A	301	GLN
1	A	313	SER
1	A	314	VAL
1	A	322	VAL
1	A	330	ASN
1	A	348	GLU
1	A	354	LEU

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Mol	Chain	Res	Type
1	A	357	SER
1	A	387	ILE
1	A	390	PHE
1	A	408	GLU
1	A	416	ASP
1	A	422	THR
1	A	424	THR
1	A	429	VAL
1	A	434	TRP
1	A	436	THR
1	A	444	CYS
1	A	448	LEU
1	A	453	THR
1	A	455	MET
1	A	459	LEU
1	A	479	LEU
1	A	490	ILE
1	A	494	LEU
1	A	497	TYR
1	A	505	ILE
1	A	517	MET
1	A	523	LEU
1	A	535	ASP
1	A	564	GLU
1	A	569	ASP
1	A	590	MET
1	A	606	ILE
1	A	612	LEU
1	A	616	VAL
1	A	624	GLU
1	A	642	ILE
1	A	648	GLU
1	A	654	LEU
1	A	659	LYS
1	A	662	CYS
1	B	16	GLU
1	B	51	SER
1	B	54	ASN
1	B	93	LEU
1	B	108	LEU
1	B	114	CYS
1	B	117	LEU

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Mol	Chain	Res	Type
1	B	122	ILE
1	B	134	ARG
1	B	150	ASN
1	B	203	VAL
1	B	210	THR
1	B	216	ILE
1	B	244	VAL
1	B	248	ASP
1	B	258	VAL
1	B	263	ASN
1	B	265	LEU
1	B	266	SER
1	B	268	ILE
1	B	278	GLN
1	B	282	MET
1	B	301	GLN
1	B	313	SER
1	B	314	VAL
1	B	322	VAL
1	B	330	ASN
1	B	348	GLU
1	B	354	LEU
1	B	357	SER
1	B	387	ILE
1	B	390	PHE
1	B	402	SER
1	B	408	GLU
1	B	416	ASP
1	B	422	THR
1	B	424	THR
1	B	429	VAL
1	B	434	TRP
1	B	436	THR
1	B	444	CYS
1	B	448	LEU
1	B	453	THR
1	B	455	MET
1	B	459	LEU
1	B	479	LEU
1	B	490	ILE
1	B	494	LEU
1	B	497	TYR

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Mol	Chain	Res	Type
1	B	505	ILE
1	B	517	MET
1	B	523	LEU
1	B	535	ASP
1	B	564	GLU
1	B	569	ASP
1	B	590	MET
1	B	606	ILE
1	B	612	LEU
1	B	616	VAL
1	B	624	GLU
1	B	642	ILE
1	B	648	GLU
1	B	654	LEU
1	B	656	ASN
1	B	659	LYS
1	B	662	CYS
1	C	16	GLU
1	C	51	SER
1	C	54	ASN
1	C	93	LEU
1	C	108	LEU
1	C	114	CYS
1	C	117	LEU
1	C	122	ILE
1	C	134	ARG
1	C	150	ASN
1	C	203	VAL
1	C	210	THR
1	C	211	LEU
1	C	216	ILE
1	C	244	VAL
1	C	248	ASP
1	C	258	VAL
1	C	263	ASN
1	C	265	LEU
1	C	266	SER
1	C	268	ILE
1	C	278	GLN
1	C	282	MET
1	C	301	GLN
1	C	313	SER

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Mol	Chain	Res	Type
1	C	314	VAL
1	C	322	VAL
1	C	330	ASN
1	C	348	GLU
1	C	354	LEU
1	C	357	SER
1	C	387	ILE
1	C	390	PHE
1	C	408	GLU
1	C	416	ASP
1	C	422	THR
1	C	424	THR
1	C	429	VAL
1	C	434	TRP
1	C	436	THR
1	C	444	CYS
1	C	448	LEU
1	C	453	THR
1	C	455	MET
1	C	459	LEU
1	C	479	LEU
1	C	490	ILE
1	C	494	LEU
1	C	497	TYR
1	C	505	ILE
1	C	517	MET
1	C	523	LEU
1	C	535	ASP
1	C	564	GLU
1	C	569	ASP
1	C	590	MET
1	C	606	ILE
1	C	610	ASP
1	C	612	LEU
1	C	616	VAL
1	C	624	GLU
1	C	642	ILE
1	C	648	GLU
1	C	654	LEU
1	C	656	ASN
1	C	659	LYS
1	C	662	CYS

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Mol	Chain	Res	Type
1	D	16	GLU
1	D	51	SER
1	D	54	ASN
1	D	93	LEU
1	D	108	LEU
1	D	114	CYS
1	D	117	LEU
1	D	122	ILE
1	D	134	ARG
1	D	150	ASN
1	D	191	PRO
1	D	203	VAL
1	D	210	THR
1	D	216	ILE
1	D	244	VAL
1	D	248	ASP
1	D	258	VAL
1	D	263	ASN
1	D	265	LEU
1	D	266	SER
1	D	268	ILE
1	D	278	GLN
1	D	282	MET
1	D	301	GLN
1	D	313	SER
1	D	314	VAL
1	D	330	ASN
1	D	348	GLU
1	D	354	LEU
1	D	357	SER
1	D	387	ILE
1	D	390	PHE
1	D	408	GLU
1	D	416	ASP
1	D	422	THR
1	D	424	THR
1	D	429	VAL
1	D	434	TRP
1	D	436	THR
1	D	444	CYS
1	D	448	LEU
1	D	453	THR

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Mol	Chain	Res	Type
1	D	455	MET
1	D	459	LEU
1	D	479	LEU
1	D	490	ILE
1	D	494	LEU
1	D	497	TYR
1	D	505	ILE
1	D	517	MET
1	D	523	LEU
1	D	535	ASP
1	D	564	GLU
1	D	569	ASP
1	D	590	MET
1	D	606	ILE
1	D	612	LEU
1	D	616	VAL
1	D	624	GLU
1	D	642	ILE
1	D	648	GLU
1	D	654	LEU
1	D	656	ASN
1	D	659	LYS
1	D	662	CYS
1	E	16	GLU
1	E	51	SER
1	E	54	ASN
1	E	93	LEU
1	E	108	LEU
1	E	114	CYS
1	E	117	LEU
1	E	122	ILE
1	E	134	ARG
1	E	150	ASN
1	E	203	VAL
1	E	210	THR
1	E	216	ILE
1	E	244	VAL
1	E	248	ASP
1	E	263	ASN
1	E	265	LEU
1	E	266	SER
1	E	268	ILE

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Mol	Chain	Res	Type
1	E	278	GLN
1	E	282	MET
1	E	301	GLN
1	E	313	SER
1	E	314	VAL
1	E	322	VAL
1	E	330	ASN
1	E	348	GLU
1	E	354	LEU
1	E	357	SER
1	E	387	ILE
1	E	390	PHE
1	E	408	GLU
1	E	416	ASP
1	E	422	THR
1	E	424	THR
1	E	429	VAL
1	E	434	TRP
1	E	436	THR
1	E	444	CYS
1	E	448	LEU
1	E	453	THR
1	E	455	MET
1	E	459	LEU
1	E	479	LEU
1	E	490	ILE
1	E	494	LEU
1	E	497	TYR
1	E	505	ILE
1	E	517	MET
1	E	535	ASP
1	E	564	GLU
1	E	569	ASP
1	E	590	MET
1	E	606	ILE
1	E	612	LEU
1	E	616	VAL
1	E	624	GLU
1	E	642	ILE
1	E	648	GLU
1	E	654	LEU
1	E	656	ASN

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Mol	Chain	Res	Type
1	E	659	LYS
1	E	662	CYS
1	F	16	GLU
1	F	51	SER
1	F	54	ASN
1	F	93	LEU
1	F	108	LEU
1	F	114	CYS
1	F	117	LEU
1	F	122	ILE
1	F	134	ARG
1	F	150	ASN
1	F	203	VAL
1	F	210	THR
1	F	216	ILE
1	F	244	VAL
1	F	248	ASP
1	F	258	VAL
1	F	263	ASN
1	F	265	LEU
1	F	266	SER
1	F	268	ILE
1	F	278	GLN
1	F	282	MET
1	F	301	GLN
1	F	313	SER
1	F	314	VAL
1	F	322	VAL
1	F	330	ASN
1	F	348	GLU
1	F	354	LEU
1	F	357	SER
1	F	387	ILE
1	F	390	PHE
1	F	408	GLU
1	F	416	ASP
1	F	422	THR
1	F	424	THR
1	F	429	VAL
1	F	434	TRP
1	F	436	THR
1	F	444	CYS

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Mol	Chain	Res	Type
1	F	448	LEU
1	F	453	THR
1	F	455	MET
1	F	459	LEU
1	F	479	LEU
1	F	490	ILE
1	F	494	LEU
1	F	497	TYR
1	F	505	ILE
1	F	517	MET
1	F	523	LEU
1	F	535	ASP
1	F	564	GLU
1	F	569	ASP
1	F	590	MET
1	F	606	ILE
1	F	612	LEU
1	F	616	VAL
1	F	624	GLU
1	F	642	ILE
1	F	648	GLU
1	F	654	LEU
1	F	656	ASN
1	F	659	LYS
1	F	662	CYS
1	G	16	GLU
1	G	51	SER
1	G	54	ASN
1	G	93	LEU
1	G	108	LEU
1	G	114	CYS
1	G	122	ILE
1	G	134	ARG
1	G	150	ASN
1	G	203	VAL
1	G	210	THR
1	G	216	ILE
1	G	244	VAL
1	G	248	ASP
1	G	258	VAL
1	G	263	ASN
1	G	265	LEU

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Mol	Chain	Res	Type
1	G	266	SER
1	G	268	ILE
1	G	278	GLN
1	G	282	MET
1	G	301	GLN
1	G	313	SER
1	G	314	VAL
1	G	322	VAL
1	G	330	ASN
1	G	348	GLU
1	G	354	LEU
1	G	357	SER
1	G	387	ILE
1	G	390	PHE
1	G	408	GLU
1	G	416	ASP
1	G	422	THR
1	G	424	THR
1	G	429	VAL
1	G	434	TRP
1	G	436	THR
1	G	444	CYS
1	G	448	LEU
1	G	453	THR
1	G	455	MET
1	G	459	LEU
1	G	535	ASP
1	G	564	GLU
1	G	569	ASP
1	G	590	MET
1	G	606	ILE
1	G	612	LEU
1	G	616	VAL
1	G	624	GLU
1	H	16	GLU
1	H	51	SER
1	H	54	ASN
1	H	93	LEU
1	H	108	LEU
1	H	114	CYS
1	H	117	LEU
1	H	122	ILE

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Mol	Chain	Res	Type
1	H	134	ARG
1	H	150	ASN
1	H	203	VAL
1	H	210	THR
1	H	216	ILE
1	H	244	VAL
1	H	248	ASP
1	H	258	VAL
1	H	263	ASN
1	H	265	LEU
1	H	266	SER
1	H	268	ILE
1	H	278	GLN
1	H	282	MET
1	H	301	GLN
1	H	313	SER
1	H	314	VAL
1	H	322	VAL
1	H	330	ASN
1	H	348	GLU
1	H	354	LEU
1	H	357	SER
1	H	387	ILE
1	H	390	PHE
1	H	402	SER
1	H	408	GLU
1	H	416	ASP
1	H	422	THR
1	H	424	THR
1	H	429	VAL
1	H	434	TRP
1	H	436	THR
1	H	444	CYS
1	H	448	LEU
1	H	453	THR
1	H	455	MET
1	H	535	ASP
1	H	564	GLU
1	H	569	ASP
1	H	590	MET
1	H	606	ILE
1	H	612	LEU

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Mol	Chain	Res	Type
1	H	616	VAL
1	H	624	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (153) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	35	GLN
1	A	70	HIS
1	A	109	ASN
1	A	143	HIS
1	A	196	GLN
1	A	230	GLN
1	A	263	ASN
1	A	264	HIS
1	A	294	ASN
1	A	301	GLN
1	A	332	ASN
1	A	355	GLN
1	A	362	ASN
1	A	365	GLN
1	A	449	GLN
1	A	478	GLN
1	A	500	GLN
1	A	611	GLN
1	A	647	GLN
1	A	651	GLN
1	B	35	GLN
1	B	70	HIS
1	B	109	ASN
1	B	143	HIS
1	B	196	GLN
1	B	230	GLN
1	B	263	ASN
1	B	264	HIS
1	B	294	ASN
1	B	301	GLN
1	B	362	ASN
1	B	365	GLN
1	B	432	GLN
1	B	449	GLN
1	B	451	GLN
1	B	470	ASN

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Mol	Chain	Res	Type
1	B	500	GLN
1	B	548	GLN
1	B	550	ASN
1	B	647	GLN
1	B	651	GLN
1	C	35	GLN
1	C	109	ASN
1	C	143	HIS
1	C	196	GLN
1	C	230	GLN
1	C	263	ASN
1	C	264	HIS
1	C	294	ASN
1	C	301	GLN
1	C	332	ASN
1	C	342	GLN
1	C	362	ASN
1	C	365	GLN
1	C	432	GLN
1	C	449	GLN
1	C	462	ASN
1	C	500	GLN
1	C	541	GLN
1	C	550	ASN
1	C	647	GLN
1	C	651	GLN
1	D	35	GLN
1	D	70	HIS
1	D	109	ASN
1	D	143	HIS
1	D	196	GLN
1	D	230	GLN
1	D	263	ASN
1	D	264	HIS
1	D	294	ASN
1	D	301	GLN
1	D	362	ASN
1	D	365	GLN
1	D	449	GLN
1	D	478	GLN
1	D	500	GLN
1	D	548	GLN

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Mol	Chain	Res	Type
1	D	550	ASN
1	D	647	GLN
1	D	651	GLN
1	E	35	GLN
1	E	70	HIS
1	E	109	ASN
1	E	143	HIS
1	E	196	GLN
1	E	230	GLN
1	E	263	ASN
1	E	264	HIS
1	E	294	ASN
1	E	301	GLN
1	E	342	GLN
1	E	355	GLN
1	E	362	ASN
1	E	365	GLN
1	E	449	GLN
1	E	462	ASN
1	E	478	GLN
1	E	500	GLN
1	E	541	GLN
1	E	611	GLN
1	E	647	GLN
1	E	651	GLN
1	F	35	GLN
1	F	109	ASN
1	F	143	HIS
1	F	175	GLN
1	F	196	GLN
1	F	230	GLN
1	F	263	ASN
1	F	264	HIS
1	F	294	ASN
1	F	301	GLN
1	F	332	ASN
1	F	362	ASN
1	F	365	GLN
1	F	449	GLN
1	F	478	GLN
1	F	500	GLN
1	F	548	GLN

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Mol	Chain	Res	Type
1	F	550	ASN
1	F	651	GLN
1	G	35	GLN
1	G	70	HIS
1	G	109	ASN
1	G	143	HIS
1	G	196	GLN
1	G	230	GLN
1	G	263	ASN
1	G	294	ASN
1	G	301	GLN
1	G	362	ASN
1	G	365	GLN
1	G	449	GLN
1	G	548	GLN
1	G	550	ASN
1	G	611	GLN
1	H	35	GLN
1	H	70	HIS
1	H	109	ASN
1	H	143	HIS
1	H	187	GLN
1	H	196	GLN
1	H	230	GLN
1	H	263	ASN
1	H	264	HIS
1	H	294	ASN
1	H	301	GLN
1	H	362	ASN
1	H	365	GLN
1	H	449	GLN
1	H	470	ASN
1	H	548	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ > 2		OWAB(Å ²)	Q < 0.9
1	A	622/676 (92%)	-0.26	5 (0%)	82 58	76, 189, 275, 337	0
1	B	622/676 (92%)	-0.23	1 (0%)	91 80	71, 191, 274, 336	0
1	C	622/676 (92%)	0.01	9 (1%)	73 46	58, 188, 275, 327	0
1	D	622/676 (92%)	-0.36	2 (0%)	90 75	85, 194, 278, 327	0
1	E	622/676 (92%)	-0.11	5 (0%)	82 58	74, 190, 274, 330	0
1	F	622/676 (92%)	-0.35	2 (0%)	90 75	93, 200, 283, 331	0
1	G	541/676 (80%)	-0.33	2 (0%)	88 70	96, 214, 302, 387	0
1	H	541/676 (80%)	-0.29	2 (0%)	88 70	79, 194, 293, 423	0
All	All	4814/5408 (89%)	-0.24	28 (0%)	85 64	58, 195, 283, 423	0

All (28) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	508	GLU	4.2
1	C	636	MET	3.8
1	C	648	GLU	3.8
1	H	544	SER	3.7
1	C	101	GLY	3.0
1	C	342	GLN	3.0
1	D	625	LEU	2.8
1	E	571	TYR	2.7
1	E	199	TYR	2.6
1	C	108	LEU	2.5
1	E	639	ASP	2.5
1	F	233	GLY	2.4
1	D	161	ILE	2.4
1	A	521	VAL	2.4
1	A	640	GLU	2.4
1	E	220	ARG	2.3

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Mol	Chain	Res	Type	RSRZ
1	C	625	LEU	2.2
1	A	301	GLN	2.2
1	B	435	GLN	2.2
1	E	284	HIS	2.2
1	H	221	PRO	2.1
1	G	563	LEU	2.1
1	A	583	THR	2.1
1	F	203	VAL	2.1
1	C	571	TYR	2.1
1	G	346	ILE	2.0
1	C	530	VAL	2.0
1	A	233	GLY	2.0

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

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

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

There are no ligands in this entry.

6.5 Other polymers [i](#)

There are no such residues in this entry.