



wwPDB EM Map/Model Validation Report ⓘ

Apr 10, 2016 – 01:51 PM BST

PDB ID : 3J7H
EMDB ID: : EMD-5995
Title : Structure of beta-galactosidase at 3.2-A resolution obtained by cryo-electron microscopy
Authors : Bartesaghi, A.; Matthies, D.; Banerjee, S.; Merk, A.; Subramaniam, S.
Deposited on : 2014-06-30
Resolution : 3.20 Å(reported)

This is a wwPDB EM Map/Model Validation Report for a publicly released PDB/EMDB entry.
For rigid body fitted models, validation errors reported here could stem from errors in the original structure(s) used in the fitting.
We welcome your comments at validation@mail.wwpdb.org
A user guide is available at
<http://wwpdb.org/validation/2016/EMValidationReportHelp>

MolProbity : 4.02b-467
Mogul : unknown
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : trunk27241

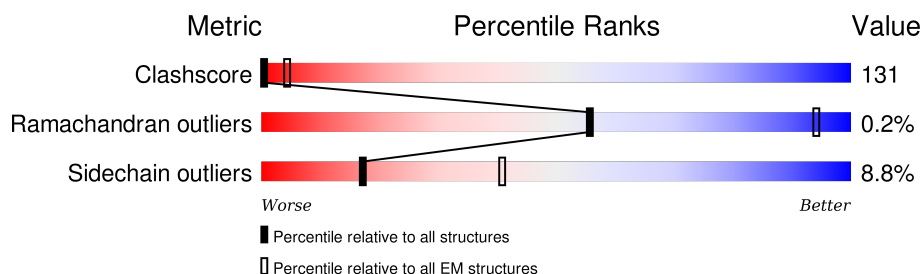
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.20 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	114402	924
Ramachandran outliers	111179	726
Sidechain outliers	111093	686

The table below summarises the geometric issues observed across the polymeric chains. The red, orange, yellow and green segments on the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. 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 $\leq 5\%$

Mol	Chain	Length	Quality of chain
1	A	1024	22% 71% 7%
1	B	1024	22% 71% 7%
1	C	1024	22% 71% 7%
1	D	1024	22% 71% 7%

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 32828 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Beta-galactosidase.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	1022	Total	C	N	O	S	0	0
			8206	5190	1452	1525	39		
1	B	1022	Total	C	N	O	S	0	0
			8206	5190	1452	1525	39		
1	C	1022	Total	C	N	O	S	0	0
			8206	5190	1452	1525	39		
1	D	1022	Total	C	N	O	S	0	0
			8206	5190	1452	1525	39		

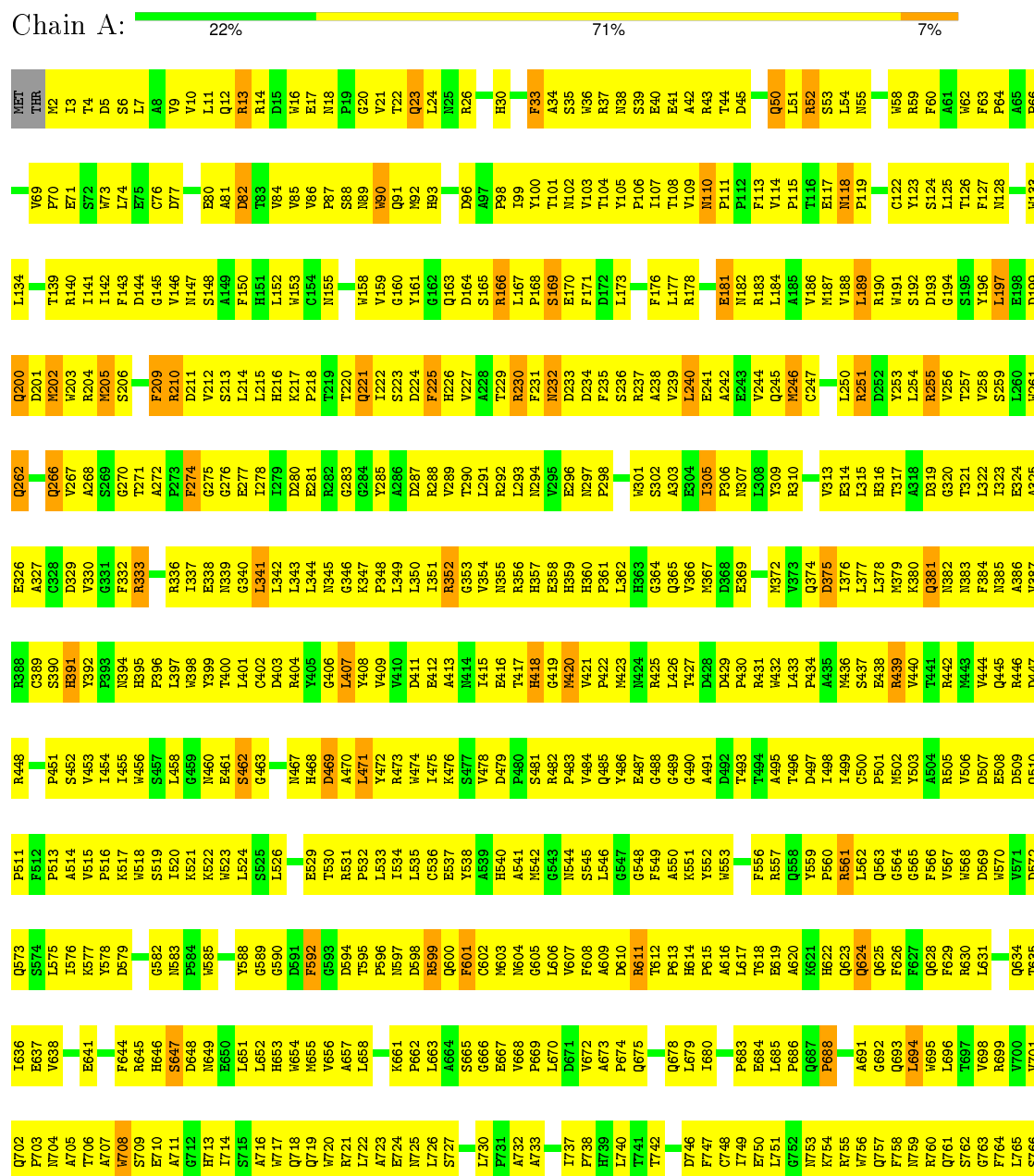
- Molecule 2 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		AltConf
2	B	1	Total	Mg	0
			1	1	
2	A	1	Total	Mg	0
			1	1	
2	D	1	Total	Mg	0
			1	1	
2	C	1	Total	Mg	0
			1	1	

3 Residue-property plots

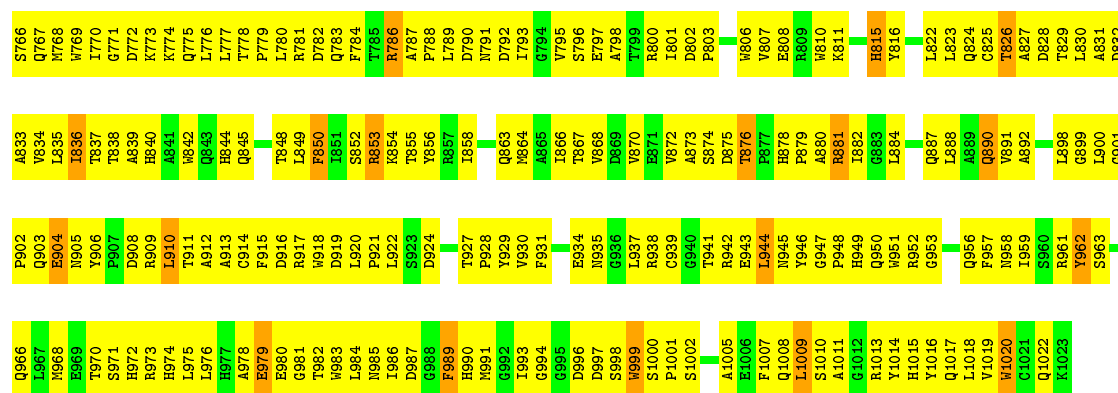
These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. Residues are color-coded according to the number of geometric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

- Molecule 1: Beta-galactosidase



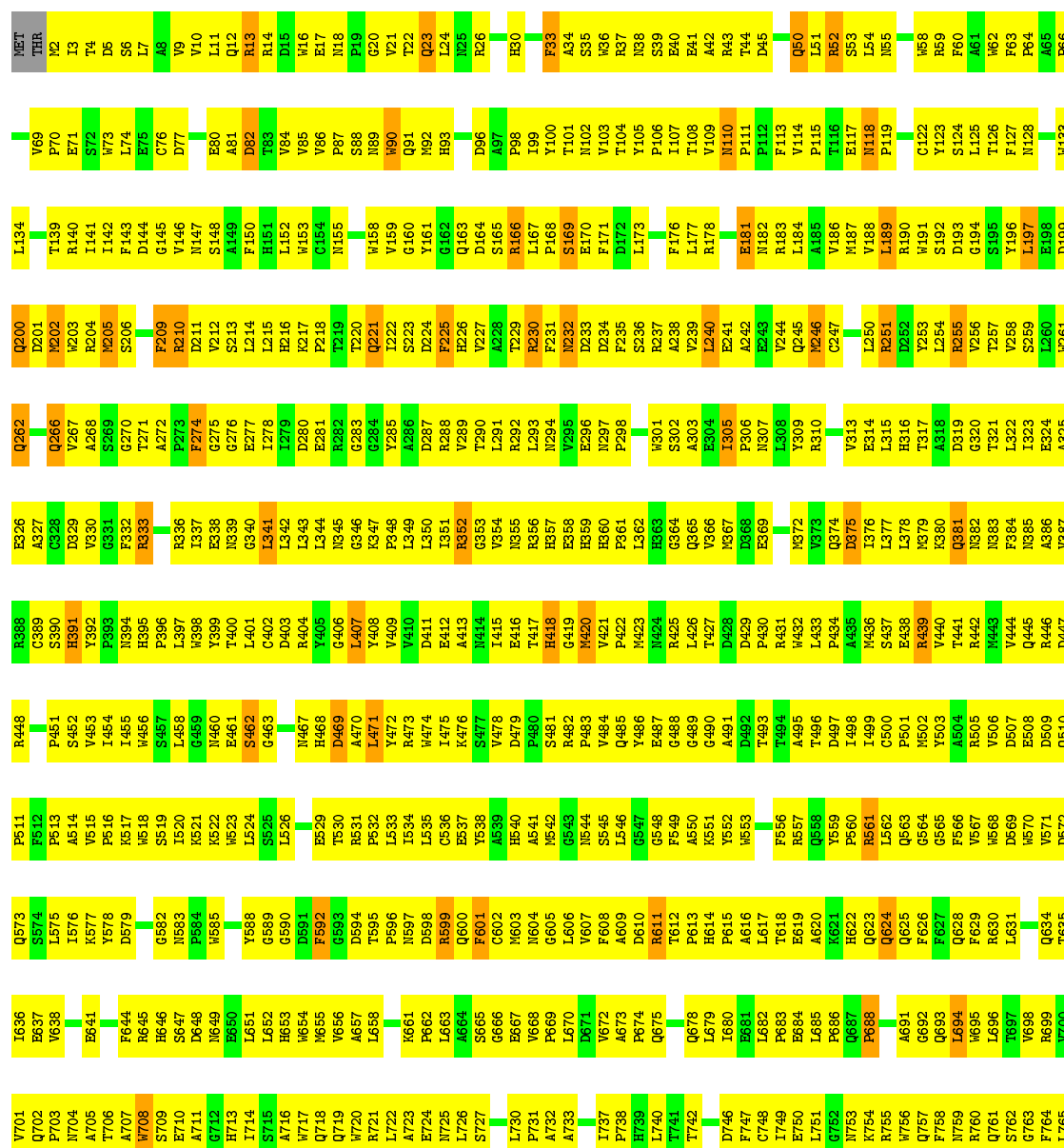






• Molecule 1: Beta-galactosidase

Chain D: 22% 71% 7%






4 Experimental information

Property	Value	Source
Reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	Depositor
Number of images	11726	Depositor
Resolution determination method	FSC 0.143	Depositor
CTF correction method	Individual frames of each movie were aligned by cross-correlation using the cumulative average of previously aligned frames as a reference to align the remaining frames. Parameters of the contrast transfer function for each micrograph were estimated from power spectra obtained using periodogram averaging with tiles of size 512x512 pixels extracted from all frames of each movie. These power spectra were then radially averaged and used to estimate the defocus for each image using frequencies in the 15.0-3.0 Angstrom range. CTF correction was done for each particle as implemented in FREALIGN's reconstruction protocol.	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	45	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	2500	Depositor
Magnification	105000	Depositor
Image detector	GATAN K2 (4k x 4k)	Depositor

5 Model quality

5.1 Standard geometry

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

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 >2	RMSZ	# Z >2
1	A	0.26	0/8448	0.47	2/11526 (0.0%)
1	B	0.26	1/8448 (0.0%)	0.47	2/11526 (0.0%)
1	C	0.26	0/8448	0.47	2/11526 (0.0%)
1	D	0.26	0/8448	0.47	2/11526 (0.0%)
All	All	0.26	1/33792 (0.0%)	0.47	8/46104 (0.0%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	306	PRO	N-CD	5.03	1.54	1.47

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	305	ILE	C-N-CD	5.72	140.41	128.40
1	C	305	ILE	C-N-CD	5.72	140.41	128.40
1	D	305	ILE	C-N-CD	5.71	140.39	128.40
1	B	305	ILE	C-N-CD	5.71	140.39	128.40
1	B	110	ASN	C-N-CD	5.11	139.14	128.40
1	A	110	ASN	C-N-CD	5.10	139.11	128.40
1	C	110	ASN	C-N-CD	5.10	139.11	128.40
1	D	110	ASN	C-N-CD	5.10	139.11	128.40

There are no chirality outliers.

There are no planarity outliers.

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	8206	0	7791	2164	0
1	B	8206	0	7791	2165	0
1	C	8206	0	7791	2156	0
1	D	8206	0	7791	2161	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
2	C	1	0	0	0	0
2	D	1	0	0	0	0
All	All	32828	0	31164	8379	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 131.

All (8379) 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:C:427:THR:HA	1:C:436:MET:CE	1.21	1.67
1:D:427:THR:HA	1:D:436:MET:CE	1.21	1.67
1:C:159:VAL:HG22	1:C:176:PHE:CE1	1.25	1.64
1:D:159:VAL:HG22	1:D:176:PHE:CE1	1.25	1.64
1:A:159:VAL:HG22	1:A:176:PHE:CE1	1.25	1.63
1:B:159:VAL:HG22	1:B:176:PHE:CE1	1.25	1.62
1:C:764:PHE:CE2	1:C:840:HIS:CE1	1.86	1.61
1:D:764:PHE:CE2	1:D:840:HIS:CE1	1.86	1.61
1:D:815:HIS:CE1	1:D:850:PHE:HZ	1.20	1.60
1:C:815:HIS:CE1	1:C:850:PHE:HZ	1.20	1.60
1:A:764:PHE:CE2	1:A:840:HIS:CE1	1.86	1.59
1:B:764:PHE:CE2	1:B:840:HIS:CE1	1.86	1.59
1:C:358:GLU:CG	1:C:367:MET:HE3	1.33	1.58
1:A:427:THR:HA	1:A:436:MET:CE	1.21	1.57
1:B:427:THR:HA	1:B:436:MET:CE	1.21	1.57
1:A:815:HIS:CE1	1:A:850:PHE:HZ	1.20	1.56
1:B:815:HIS:CE1	1:B:850:PHE:HZ	1.20	1.56
1:D:349:LEU:HD21	1:D:351:ILE:CD1	1.35	1.55
1:C:349:LEU:HD21	1:C:351:ILE:CD1	1.35	1.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:770:ILE:CG2	1:A:775:GLN:NE2	1.69	1.52
1:B:823:LEU:HD11	1:B:839:ALA:CB	1.38	1.52
1:A:823:LEU:HD11	1:A:839:ALA:CB	1.38	1.52
1:B:770:ILE:CG2	1:B:775:GLN:NE2	1.69	1.52
1:C:360:HIS:CD2	1:C:361:PRO:HD2	1.45	1.52
1:D:360:HIS:CD2	1:D:361:PRO:HD2	1.45	1.51
1:B:360:HIS:CD2	1:B:361:PRO:HD2	1.45	1.51
1:A:349:LEU:HD21	1:A:351:ILE:CD1	1.35	1.51
1:B:349:LEU:HD21	1:B:351:ILE:CD1	1.35	1.51
1:C:36:TRP:HE1	1:C:42:ALA:CB	1.22	1.51
1:D:654:TRP:CE2	1:D:666:GLY:HA3	1.45	1.51
1:D:36:TRP:HE1	1:D:42:ALA:CB	1.22	1.51
1:C:654:TRP:CE2	1:C:666:GLY:HA3	1.45	1.51
1:A:360:HIS:CD2	1:A:361:PRO:HD2	1.45	1.51
1:D:823:LEU:HD11	1:D:839:ALA:CB	1.38	1.49
1:C:823:LEU:HD11	1:C:839:ALA:CB	1.38	1.49
1:D:770:ILE:CG2	1:D:775:GLN:NE2	1.69	1.48
1:C:974:HIS:CE1	1:C:975:LEU:HD21	1.46	1.48
1:C:770:ILE:CG2	1:C:775:GLN:NE2	1.69	1.48
1:D:974:HIS:CE1	1:D:975:LEU:HD21	1.46	1.48
1:B:974:HIS:CE1	1:B:975:LEU:HD21	1.46	1.48
1:A:974:HIS:CE1	1:A:975:LEU:HD21	1.46	1.48
1:C:100:TYR:CZ	1:C:602:CYS:HB3	1.50	1.47
1:D:100:TYR:CZ	1:D:602:CYS:HB3	1.50	1.47
1:B:36:TRP:HE1	1:B:42:ALA:CB	1.22	1.47
1:A:36:TRP:HE1	1:A:42:ALA:CB	1.22	1.47
1:B:100:TYR:CZ	1:B:602:CYS:HB3	1.50	1.47
1:B:654:TRP:CE2	1:B:666:GLY:HA3	1.45	1.46
1:A:100:TYR:CZ	1:A:602:CYS:HB3	1.50	1.46
1:A:654:TRP:CE2	1:A:666:GLY:HA3	1.45	1.46
1:D:36:TRP:NE1	1:D:42:ALA:HB2	1.13	1.46
1:C:36:TRP:NE1	1:C:42:ALA:HB2	1.13	1.46
1:D:691:ALA:CB	1:D:727:SER:HB2	1.46	1.46
1:C:691:ALA:CB	1:C:727:SER:HB2	1.46	1.46
1:C:651:LEU:CD1	1:C:703:PRO:HG3	1.47	1.45
1:D:651:LEU:CD1	1:D:703:PRO:HG3	1.47	1.45
1:C:693:GLN:HE21	1:C:721:ARG:CG	1.29	1.45
1:D:229:THR:HG21	1:D:231:PHE:CZ	1.50	1.45
1:D:693:GLN:HE21	1:D:721:ARG:CG	1.29	1.44
1:C:229:THR:HG21	1:C:231:PHE:CZ	1.50	1.44
1:B:691:ALA:CB	1:B:727:SER:HB2	1.46	1.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:229:THR:HG21	1:A:231:PHE:CZ	1.50	1.44
1:B:229:THR:HG21	1:B:231:PHE:CZ	1.50	1.44
1:A:691:ALA:CB	1:A:727:SER:HB2	1.46	1.44
1:D:91:GLN:NE2	1:D:96:ASP:HB2	1.33	1.44
1:C:91:GLN:NE2	1:C:96:ASP:HB2	1.33	1.43
1:B:693:GLN:HE21	1:B:721:ARG:CG	1.29	1.43
1:D:693:GLN:NE2	1:D:721:ARG:CG	1.80	1.43
1:C:693:GLN:NE2	1:C:721:ARG:CG	1.80	1.43
1:A:693:GLN:HE21	1:A:721:ARG:CG	1.29	1.43
1:B:651:LEU:CD1	1:B:703:PRO:HG3	1.47	1.43
1:A:395:HIS:ND1	1:A:396:PRO:HD2	1.22	1.43
1:D:358:GLU:CG	1:D:367:MET:HE3	1.47	1.42
1:C:30:HIS:CD2	1:C:33:PHE:CZ	2.07	1.42
1:A:651:LEU:CD1	1:A:703:PRO:HG3	1.47	1.42
1:D:30:HIS:CD2	1:D:33:PHE:CZ	2.07	1.42
1:A:91:GLN:HE22	1:A:96:ASP:CB	1.31	1.42
1:B:91:GLN:HE22	1:B:96:ASP:CB	1.31	1.42
1:B:395:HIS:ND1	1:B:396:PRO:HD2	1.22	1.42
1:A:30:HIS:CD2	1:A:33:PHE:CZ	2.07	1.42
1:B:30:HIS:CD2	1:B:33:PHE:CZ	2.07	1.41
1:C:358:GLU:CG	1:C:367:MET:CE	1.96	1.41
1:D:358:GLU:CG	1:D:367:MET:CE	1.96	1.41
1:A:358:GLU:CG	1:A:367:MET:CE	1.96	1.41
1:B:358:GLU:CG	1:B:367:MET:CE	1.96	1.41
1:C:815:HIS:CE1	1:C:850:PHE:CZ	2.08	1.41
1:B:358:GLU:CG	1:B:367:MET:HE3	1.47	1.41
1:D:815:HIS:CE1	1:D:850:PHE:CZ	2.08	1.40
1:C:349:LEU:CD2	1:C:351:ILE:HG12	1.50	1.40
1:D:395:HIS:ND1	1:D:396:PRO:HD2	1.22	1.40
1:C:764:PHE:CD1	1:C:781:ARG:HG3	1.55	1.40
1:D:349:LEU:CD2	1:D:351:ILE:HG12	1.50	1.40
1:C:974:HIS:CE1	1:C:975:LEU:CD2	2.03	1.40
1:D:974:HIS:CE1	1:D:975:LEU:CD2	2.03	1.40
1:D:764:PHE:CD1	1:D:781:ARG:HG3	1.55	1.40
1:C:395:HIS:ND1	1:C:396:PRO:HD2	1.22	1.40
1:D:91:GLN:HE22	1:D:96:ASP:CB	1.31	1.40
1:A:764:PHE:CD1	1:A:781:ARG:HG3	1.55	1.40
1:B:764:PHE:CD1	1:B:781:ARG:HG3	1.54	1.40
1:C:91:GLN:HE22	1:C:96:ASP:CB	1.31	1.40
1:A:815:HIS:CE1	1:A:850:PHE:CZ	2.08	1.39
1:B:815:HIS:CE1	1:B:850:PHE:CZ	2.08	1.39

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:538:TYR:HE2	1:B:565:GLY:O	1.05	1.39
1:B:769:TRP:CH2	1:B:774:LYS:CG	2.05	1.39
1:A:974:HIS:CE1	1:A:975:LEU:CD2	2.03	1.39
1:A:769:TRP:CH2	1:A:774:LYS:CG	2.05	1.39
1:B:349:LEU:CD2	1:B:351:ILE:HG12	1.50	1.38
1:B:974:HIS:CE1	1:B:975:LEU:CD2	2.03	1.38
1:D:427:THR:CA	1:D:436:MET:HE1	1.52	1.38
1:A:349:LEU:CD2	1:A:351:ILE:HG12	1.50	1.38
1:A:36:TRP:NE1	1:A:42:ALA:HB2	1.13	1.38
1:A:693:GLN:NE2	1:A:721:ARG:CG	1.80	1.38
1:A:538:TYR:HE2	1:A:565:GLY:O	1.05	1.38
1:B:36:TRP:NE1	1:B:42:ALA:HB2	1.13	1.38
1:B:693:GLN:NE2	1:B:721:ARG:CG	1.80	1.38
1:C:769:TRP:CH2	1:C:774:LYS:CG	2.05	1.37
1:D:769:TRP:CH2	1:D:774:LYS:CG	2.05	1.37
1:A:742:THR:CG2	1:A:760:ARG:NH2	1.88	1.37
1:B:742:THR:CG2	1:B:760:ARG:NH2	1.88	1.37
1:A:91:GLN:NE2	1:A:96:ASP:HB2	1.33	1.37
1:C:427:THR:CA	1:C:436:MET:CE	2.02	1.37
1:B:91:GLN:NE2	1:B:96:ASP:HB2	1.33	1.37
1:D:427:THR:CA	1:D:436:MET:CE	2.02	1.36
1:A:747:PHE:CE2	1:A:827:ALA:HB2	1.60	1.36
1:B:747:PHE:CE2	1:B:827:ALA:HB2	1.60	1.36
1:A:73:TRP:CH2	1:A:122:CYS:HB3	1.61	1.36
1:B:73:TRP:CH2	1:B:122:CYS:HB3	1.61	1.36
1:C:742:THR:CG2	1:C:760:ARG:NH2	1.87	1.35
1:D:742:THR:CG2	1:D:760:ARG:NH2	1.88	1.35
1:B:427:THR:CA	1:B:436:MET:CE	2.02	1.35
1:D:16:TRP:O	1:D:193:ASP:HB3	1.20	1.35
1:C:16:TRP:O	1:C:193:ASP:HB3	1.20	1.35
1:A:427:THR:CA	1:A:436:MET:CE	2.02	1.35
1:A:874:SER:OG	1:B:724:GLU:HB2	1.25	1.35
1:B:769:TRP:CH2	1:B:774:LYS:HG3	1.62	1.35
1:A:769:TRP:CH2	1:A:774:LYS:HG3	1.62	1.35
1:D:764:PHE:CE2	1:D:840:HIS:ND1	1.92	1.35
1:D:747:PHE:CE2	1:D:827:ALA:HB2	1.60	1.35
1:D:205:MET:CE	1:D:365:GLN:HG2	1.57	1.35
1:C:205:MET:CE	1:C:365:GLN:HG2	1.57	1.35
1:C:764:PHE:CE2	1:C:840:HIS:ND1	1.92	1.34
1:C:747:PHE:CE2	1:C:827:ALA:HB2	1.60	1.34
1:D:73:TRP:CH2	1:D:122:CYS:HB3	1.61	1.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:724:GLU:HB2	1:B:874:SER:OG	1.25	1.34
1:C:538:TYR:HE2	1:C:565:GLY:O	1.05	1.34
1:C:73:TRP:CH2	1:C:122:CYS:HB3	1.61	1.34
1:B:205:MET:CE	1:B:365:GLN:HG2	1.57	1.34
1:C:336:ARG:NH1	1:C:338:GLU:CD	1.81	1.34
1:D:336:ARG:NH1	1:D:338:GLU:CD	1.82	1.34
1:C:550:ALA:HA	1:C:623:GLN:NE2	1.43	1.33
1:D:550:ALA:HA	1:D:623:GLN:NE2	1.43	1.33
1:D:764:PHE:HE2	1:D:840:HIS:ND1	1.24	1.33
1:A:205:MET:CE	1:A:365:GLN:HG2	1.57	1.33
1:D:538:TYR:HE2	1:D:565:GLY:O	1.05	1.33
1:C:764:PHE:HE2	1:C:840:HIS:ND1	1.24	1.33
1:B:16:TRP:O	1:B:193:ASP:HB3	1.20	1.33
1:A:427:THR:CB	1:A:436:MET:HE1	1.57	1.33
1:A:16:TRP:O	1:A:193:ASP:HB3	1.20	1.33
1:C:427:THR:CB	1:C:436:MET:HE1	1.57	1.33
1:C:758:PHE:CD1	1:C:765:LEU:HB3	1.64	1.33
1:D:758:PHE:CD1	1:D:765:LEU:HB3	1.64	1.33
1:C:768:MET:CE	1:C:1020:TRP:CZ3	2.10	1.32
1:D:768:MET:CE	1:D:1020:TRP:CZ3	2.10	1.32
1:D:427:THR:CB	1:D:436:MET:HE1	1.59	1.32
1:A:358:GLU:CG	1:A:367:MET:HE3	1.54	1.32
1:D:797:GLU:O	1:D:801:ILE:HD13	1.23	1.32
1:B:768:MET:CE	1:B:1020:TRP:CZ3	2.10	1.32
1:A:768:MET:CE	1:A:1020:TRP:CZ3	2.10	1.32
1:B:427:THR:CB	1:B:436:MET:HE1	1.58	1.32
1:D:823:LEU:CD1	1:D:839:ALA:HB3	1.60	1.32
1:C:823:LEU:CD1	1:C:839:ALA:HB3	1.60	1.32
1:C:797:GLU:O	1:C:801:ILE:HD13	1.23	1.32
1:D:336:ARG:CZ	1:D:338:GLU:OE1	1.76	1.31
1:B:336:ARG:CZ	1:B:338:GLU:OE1	1.76	1.31
1:A:758:PHE:CD1	1:A:765:LEU:HB3	1.64	1.31
1:B:427:THR:CA	1:B:436:MET:HE1	1.56	1.31
1:B:550:ALA:HA	1:B:623:GLN:NE2	1.43	1.31
1:B:758:PHE:CD1	1:B:765:LEU:HB3	1.64	1.31
1:C:336:ARG:CZ	1:C:338:GLU:OE1	1.76	1.31
1:A:336:ARG:CZ	1:A:338:GLU:OE1	1.76	1.31
1:A:550:ALA:HA	1:A:623:GLN:NE2	1.43	1.31
1:A:747:PHE:CE2	1:A:827:ALA:CB	2.14	1.31
1:B:747:PHE:CE2	1:B:827:ALA:CB	2.14	1.31
1:B:336:ARG:NH1	1:B:338:GLU:CD	1.81	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:336:ARG:NH1	1:A:338:GLU:CD	1.81	1.31
1:C:246:MET:HG2	1:C:274:PHE:CE2	1.65	1.31
1:D:246:MET:HG2	1:D:274:PHE:CE2	1.65	1.31
1:B:246:MET:HG2	1:B:274:PHE:CE2	1.65	1.31
1:A:246:MET:HG2	1:A:274:PHE:CE2	1.65	1.31
1:B:515:VAL:CG2	1:C:280:ASP:HB2	1.60	1.31
1:D:769:TRP:CH2	1:D:774:LYS:HG3	1.62	1.31
1:A:515:VAL:CG2	1:D:280:ASP:HB2	1.59	1.30
1:C:769:TRP:CH2	1:C:774:LYS:HG3	1.62	1.30
1:A:747:PHE:CE1	1:A:760:ARG:NE	2.00	1.30
1:B:747:PHE:CE1	1:B:760:ARG:NE	1.99	1.30
1:A:823:LEU:CD1	1:A:839:ALA:HB3	1.60	1.30
1:C:724:GLU:HB2	1:D:874:SER:OG	1.26	1.30
1:A:280:ASP:HB2	1:D:515:VAL:CG2	1.60	1.30
1:D:747:PHE:CE2	1:D:827:ALA:CB	2.14	1.30
1:B:764:PHE:CE2	1:B:840:HIS:ND1	1.92	1.30
1:B:823:LEU:CD1	1:B:839:ALA:HB3	1.60	1.30
1:D:111:PRO:HB3	1:D:196:TYR:CD2	1.67	1.30
1:A:111:PRO:HB3	1:A:196:TYR:CD2	1.67	1.30
1:C:747:PHE:CE2	1:C:827:ALA:CB	2.14	1.29
1:A:229:THR:CG2	1:A:231:PHE:CZ	2.13	1.29
1:C:111:PRO:HB3	1:C:196:TYR:CD2	1.67	1.29
1:B:111:PRO:HB3	1:B:196:TYR:CD2	1.67	1.29
1:A:764:PHE:HE2	1:A:840:HIS:ND1	1.24	1.29
1:A:764:PHE:CE2	1:A:840:HIS:ND1	1.92	1.29
1:B:764:PHE:HE2	1:B:840:HIS:ND1	1.24	1.29
1:C:229:THR:CG2	1:C:231:PHE:CZ	2.13	1.29
1:B:229:THR:CG2	1:B:231:PHE:CZ	2.13	1.29
1:B:280:ASP:HB2	1:C:515:VAL:CG2	1.61	1.29
1:C:874:SER:OG	1:D:724:GLU:HB2	1.26	1.29
1:C:229:THR:HG22	1:C:231:PHE:CE1	1.67	1.29
1:D:229:THR:CG2	1:D:231:PHE:CZ	2.13	1.29
1:D:229:THR:HG22	1:D:231:PHE:CE1	1.67	1.29
1:D:349:LEU:CD2	1:D:351:ILE:CG1	2.11	1.29
1:C:349:LEU:CD2	1:C:351:ILE:CG1	2.11	1.29
1:B:22:THR:O	1:B:163:GLN:HB2	1.12	1.29
1:B:100:TYR:CE2	1:B:602:CYS:HB3	1.67	1.28
1:A:22:THR:O	1:A:163:GLN:HB2	1.12	1.28
1:C:22:THR:O	1:C:163:GLN:HB2	1.12	1.28
1:C:100:TYR:CE2	1:C:602:CYS:HB3	1.67	1.28
1:D:100:TYR:CE2	1:D:602:CYS:HB3	1.67	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:100:TYR:CE2	1:A:602:CYS:HB3	1.67	1.28
1:B:768:MET:HE2	1:B:1020:TRP:CE3	1.66	1.28
1:A:427:THR:CA	1:A:436:MET:HE1	1.60	1.28
1:A:768:MET:HE1	1:A:1020:TRP:CE3	1.66	1.28
1:D:22:THR:O	1:D:163:GLN:HB2	1.12	1.28
1:C:246:MET:CG	1:C:274:PHE:HE2	1.46	1.28
1:D:747:PHE:CE1	1:D:760:ARG:NE	2.00	1.28
1:D:246:MET:CG	1:D:274:PHE:HE2	1.46	1.28
1:A:22:THR:O	1:A:163:GLN:CB	1.81	1.28
1:C:747:PHE:CE1	1:C:760:ARG:NE	2.00	1.27
1:B:22:THR:O	1:B:163:GLN:CB	1.81	1.27
1:C:747:PHE:HE2	1:C:827:ALA:CB	1.47	1.27
1:D:747:PHE:HE2	1:D:827:ALA:CB	1.48	1.27
1:B:902:PRO:O	1:B:938:ARG:NH2	1.67	1.27
1:A:902:PRO:O	1:A:938:ARG:NH2	1.67	1.27
1:B:349:LEU:CD2	1:B:351:ILE:CG1	2.11	1.27
1:A:349:LEU:CD2	1:A:351:ILE:CG1	2.11	1.27
1:B:246:MET:CG	1:B:274:PHE:HE2	1.46	1.27
1:A:246:MET:CG	1:A:274:PHE:HE2	1.46	1.27
1:B:797:GLU:O	1:B:801:ILE:HD13	1.23	1.27
1:D:503:TYR:CZ	1:D:537:GLU:OE1	1.87	1.27
1:A:37:ARG:NH1	1:A:218:PRO:HG3	1.49	1.27
1:B:503:TYR:CZ	1:B:537:GLU:OE1	1.87	1.27
1:C:503:TYR:CZ	1:C:537:GLU:OE1	1.87	1.27
1:B:37:ARG:NH1	1:B:218:PRO:HG3	1.49	1.27
1:A:797:GLU:O	1:A:801:ILE:HD13	1.23	1.27
1:A:229:THR:HG22	1:A:231:PHE:CE1	1.67	1.27
1:B:229:THR:HG22	1:B:231:PHE:CE1	1.67	1.27
1:C:902:PRO:O	1:C:938:ARG:NH2	1.67	1.27
1:C:22:THR:O	1:C:163:GLN:CB	1.81	1.26
1:D:22:THR:O	1:D:163:GLN:CB	1.81	1.26
1:A:503:TYR:CZ	1:A:537:GLU:OE1	1.87	1.26
1:D:902:PRO:O	1:D:938:ARG:NH2	1.67	1.26
1:A:693:GLN:NE2	1:A:721:ARG:HG2	0.93	1.26
1:B:693:GLN:NE2	1:B:721:ARG:HG2	0.93	1.26
1:B:390:SER:HB2	1:B:391:HIS:ND1	1.51	1.25
1:A:390:SER:HB2	1:A:391:HIS:ND1	1.51	1.25
1:B:892:ALA:HB3	1:B:946:TYR:CE1	1.70	1.25
1:D:37:ARG:NH1	1:D:218:PRO:HG3	1.49	1.25
1:C:892:ALA:HB3	1:C:946:TYR:CE1	1.70	1.25
1:A:892:ALA:HB3	1:A:946:TYR:CE1	1.70	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:159:VAL:CG2	1:C:176:PHE:CE1	2.20	1.25
1:D:159:VAL:CG2	1:D:176:PHE:CE1	2.20	1.25
1:D:693:GLN:NE2	1:D:721:ARG:HG2	0.94	1.25
1:C:768:MET:HE2	1:C:1020:TRP:CE3	1.70	1.25
1:C:37:ARG:NH1	1:C:218:PRO:HG3	1.49	1.25
1:C:693:GLN:NE2	1:C:721:ARG:HG2	0.94	1.25
1:D:768:MET:HE2	1:D:1020:TRP:CE3	1.70	1.25
1:D:892:ALA:HB3	1:D:946:TYR:CE1	1.70	1.25
1:A:427:THR:HG22	1:A:436:MET:CE	1.68	1.24
1:B:427:THR:HG22	1:B:436:MET:CE	1.68	1.24
1:C:427:THR:HG22	1:C:436:MET:CE	1.68	1.24
1:B:349:LEU:CD2	1:B:351:ILE:CD1	2.16	1.24
1:D:427:THR:HG22	1:D:436:MET:CE	1.68	1.23
1:B:159:VAL:CG2	1:B:176:PHE:CE1	2.20	1.23
1:A:349:LEU:CD2	1:A:351:ILE:CD1	2.16	1.23
1:A:159:VAL:CG2	1:A:176:PHE:CE1	2.20	1.23
1:D:651:LEU:CG	1:D:703:PRO:HG3	1.67	1.23
1:C:651:LEU:CG	1:C:703:PRO:HG3	1.67	1.23
1:D:59:ARG:NH1	1:D:81:ALA:O	1.71	1.23
1:D:390:SER:HB2	1:D:391:HIS:ND1	1.51	1.23
1:C:390:SER:HB2	1:C:391:HIS:ND1	1.51	1.23
1:C:59:ARG:NH1	1:C:81:ALA:O	1.70	1.23
1:D:349:LEU:CD2	1:D:351:ILE:CD1	2.16	1.22
1:C:705:ALA:HB2	1:C:711:ALA:N	1.55	1.22
1:D:705:ALA:HB2	1:D:711:ALA:N	1.55	1.22
1:B:747:PHE:HE2	1:B:827:ALA:CB	1.47	1.22
1:C:349:LEU:CD2	1:C:351:ILE:CD1	2.16	1.22
1:A:253:TYR:O	1:A:255:ARG:HD3	1.33	1.22
1:B:651:LEU:CG	1:B:703:PRO:HG3	1.67	1.22
1:A:651:LEU:CG	1:A:703:PRO:HG3	1.67	1.22
1:C:159:VAL:HG22	1:C:176:PHE:CD1	1.74	1.22
1:D:159:VAL:HG22	1:D:176:PHE:CD1	1.74	1.22
1:A:747:PHE:HE2	1:A:827:ALA:CB	1.47	1.22
1:B:253:TYR:O	1:B:255:ARG:HD3	1.33	1.22
1:D:789:LEU:O	1:D:792:ASP:OD1	1.57	1.22
1:C:789:LEU:O	1:C:792:ASP:OD1	1.57	1.22
1:C:427:THR:CG2	1:C:436:MET:HE1	1.69	1.21
1:A:159:VAL:HG22	1:A:176:PHE:CD1	1.74	1.21
1:B:159:VAL:HG22	1:B:176:PHE:CD1	1.74	1.21
1:A:395:HIS:ND1	1:A:396:PRO:CD	2.03	1.21
1:D:654:TRP:CZ2	1:D:666:GLY:HA3	1.75	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:654:TRP:CZ2	1:C:666:GLY:HA3	1.75	1.21
1:B:395:HIS:ND1	1:B:396:PRO:CD	2.03	1.21
1:D:395:HIS:ND1	1:D:396:PRO:CD	2.03	1.21
1:C:395:HIS:ND1	1:C:396:PRO:CD	2.03	1.21
1:B:556:PHE:CE1	1:B:564:GLY:HA2	1.74	1.21
1:A:556:PHE:CE1	1:A:564:GLY:HA2	1.74	1.21
1:C:769:TRP:CH2	1:C:774:LYS:HG2	1.72	1.21
1:C:253:TYR:O	1:C:255:ARG:HD3	1.33	1.20
1:D:90:TRP:HE1	1:D:91:GLN:NE2	1.38	1.20
1:C:403:ASP:OD1	1:C:452:SER:HB3	1.41	1.20
1:B:705:ALA:HB2	1:B:711:ALA:N	1.55	1.20
1:D:253:TYR:O	1:D:255:ARG:HD3	1.33	1.20
1:C:90:TRP:HE1	1:C:91:GLN:NE2	1.38	1.20
1:D:769:TRP:CH2	1:D:774:LYS:HG2	1.72	1.20
1:D:556:PHE:CE1	1:D:564:GLY:HA2	1.74	1.20
1:A:387:VAL:HG12	1:A:407:LEU:CD2	1.71	1.20
1:B:387:VAL:HG12	1:B:407:LEU:CD2	1.71	1.20
1:D:403:ASP:OD1	1:D:452:SER:HB3	1.41	1.20
1:A:705:ALA:HB2	1:A:711:ALA:N	1.55	1.20
1:C:556:PHE:CE1	1:C:564:GLY:HA2	1.74	1.20
1:C:538:TYR:CE2	1:C:565:GLY:O	1.95	1.20
1:D:538:TYR:CE2	1:D:565:GLY:O	1.95	1.20
1:B:654:TRP:CZ2	1:B:666:GLY:HA3	1.75	1.20
1:A:654:TRP:CZ2	1:A:666:GLY:HA3	1.75	1.20
1:B:90:TRP:HE1	1:B:91:GLN:NE2	1.38	1.19
1:D:387:VAL:HG12	1:D:407:LEU:CD2	1.71	1.19
1:C:387:VAL:HG12	1:C:407:LEU:CD2	1.71	1.19
1:D:418:HIS:CE1	1:D:461:GLU:OE1	1.96	1.19
1:C:418:HIS:CE1	1:C:461:GLU:OE1	1.96	1.19
1:A:90:TRP:HE1	1:A:91:GLN:NE2	1.38	1.19
1:A:59:ARG:NH1	1:A:81:ALA:O	1.71	1.19
1:B:538:TYR:CE2	1:B:565:GLY:O	1.95	1.19
1:A:770:ILE:HG21	1:A:775:GLN:NE2	1.37	1.19
1:D:823:LEU:CD1	1:D:839:ALA:CB	2.19	1.19
1:C:823:LEU:CD1	1:C:839:ALA:CB	2.19	1.19
1:B:59:ARG:NH1	1:B:81:ALA:O	1.71	1.19
1:A:538:TYR:CE2	1:A:565:GLY:O	1.95	1.19
1:D:577:LYS:HD3	1:D:585:TRP:CZ2	1.76	1.19
1:B:789:LEU:O	1:B:792:ASP:OD1	1.57	1.19
1:C:577:LYS:HD3	1:C:585:TRP:CZ2	1.76	1.19
1:B:770:ILE:HG21	1:B:775:GLN:NE2	1.37	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:358:GLU:HG2	1:B:367:MET:CE	1.63	1.19
1:A:789:LEU:O	1:A:792:ASP:OD1	1.57	1.19
1:A:577:LYS:HD3	1:A:585:TRP:CZ2	1.76	1.19
1:A:685:LEU:HD13	1:A:722:LEU:HD11	1.19	1.19
1:B:577:LYS:HD3	1:B:585:TRP:CZ2	1.76	1.19
1:C:167:LEU:CD1	1:C:442:ARG:HB3	1.72	1.18
1:A:390:SER:CB	1:A:391:HIS:ND1	2.07	1.18
1:A:418:HIS:CE1	1:A:461:GLU:OE1	1.96	1.18
1:B:390:SER:CB	1:B:391:HIS:ND1	2.07	1.18
1:A:358:GLU:HG2	1:A:367:MET:CE	1.63	1.18
1:D:167:LEU:CD1	1:D:442:ARG:HB3	1.72	1.18
1:A:375:ASP:OD1	1:A:570:TRP:NE1	1.75	1.18
1:B:685:LEU:HD13	1:B:722:LEU:HD11	1.19	1.18
1:B:418:HIS:CE1	1:B:461:GLU:OE1	1.96	1.18
1:B:390:SER:HB2	1:B:391:HIS:CE1	1.78	1.18
1:B:167:LEU:CD1	1:B:442:ARG:HB3	1.72	1.18
1:B:375:ASP:OD1	1:B:570:TRP:NE1	1.76	1.18
1:A:390:SER:HB2	1:A:391:HIS:CE1	1.78	1.18
1:A:769:TRP:CH2	1:A:774:LYS:HG2	1.72	1.18
1:A:167:LEU:CD1	1:A:442:ARG:HB3	1.72	1.18
1:A:429:ASP:OD1	1:A:430:PRO:HD2	1.44	1.17
1:B:429:ASP:OD1	1:B:430:PRO:HD2	1.44	1.17
1:B:403:ASP:OD1	1:B:452:SER:HB3	1.41	1.17
1:C:390:SER:HB2	1:C:391:HIS:CE1	1.78	1.17
1:B:769:TRP:CH2	1:B:774:LYS:HG2	1.72	1.17
1:C:770:ILE:HG21	1:C:775:GLN:NE2	1.37	1.17
1:A:403:ASP:OD1	1:A:452:SER:HB3	1.41	1.17
1:C:375:ASP:OD1	1:C:570:TRP:NE1	1.75	1.17
1:C:607:VAL:HG12	1:C:617:LEU:HD12	1.24	1.17
1:D:652:LEU:HD11	1:D:698:VAL:CG1	1.75	1.17
1:C:652:LEU:HD11	1:C:698:VAL:CG1	1.75	1.17
1:D:390:SER:HB2	1:D:391:HIS:CE1	1.78	1.17
1:D:390:SER:CB	1:D:391:HIS:ND1	2.07	1.17
1:D:375:ASP:OD1	1:D:570:TRP:NE1	1.75	1.17
1:D:908:ASP:HA	1:D:1007:PHE:CE1	1.80	1.17
1:C:390:SER:CB	1:C:391:HIS:ND1	2.07	1.17
1:C:908:ASP:HA	1:C:1007:PHE:CE1	1.80	1.17
1:D:770:ILE:HG21	1:D:775:GLN:NE2	1.37	1.16
1:D:626:PHE:O	1:D:641:GLU:HB2	1.43	1.16
1:C:626:PHE:O	1:C:641:GLU:HB2	1.43	1.16
1:A:427:THR:CG2	1:A:436:MET:HE1	1.75	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:111:PRO:HB3	1:D:196:TYR:CE2	1.80	1.16
1:C:111:PRO:HB3	1:C:196:TYR:CE2	1.80	1.16
1:D:540:HIS:NE2	1:D:604:ASN:OD1	1.78	1.16
1:D:607:VAL:HG12	1:D:617:LEU:HD12	1.24	1.16
1:C:764:PHE:CD2	1:C:840:HIS:CE1	2.34	1.16
1:D:764:PHE:CD2	1:D:840:HIS:CE1	2.34	1.16
1:A:823:LEU:CD1	1:A:839:ALA:CB	2.19	1.16
1:C:540:HIS:NE2	1:C:604:ASN:OD1	1.78	1.16
1:A:524:LEU:HD11	1:A:562:LEU:CD1	1.76	1.16
1:B:524:LEU:HD11	1:B:562:LEU:CD1	1.76	1.16
1:C:427:THR:CA	1:C:436:MET:HE1	1.66	1.16
1:B:823:LEU:CD1	1:B:839:ALA:CB	2.19	1.16
1:C:36:TRP:CZ2	1:C:42:ALA:HA	1.81	1.16
1:D:36:TRP:CZ2	1:D:42:ALA:HA	1.81	1.16
1:A:652:LEU:HD11	1:A:698:VAL:CG1	1.75	1.16
1:B:626:PHE:O	1:B:641:GLU:HB2	1.43	1.16
1:B:91:GLN:HG3	1:B:190:ARG:NH2	1.59	1.16
1:B:768:MET:CE	1:B:1020:TRP:CE3	2.27	1.16
1:C:589:GLY:CA	1:C:599:ARG:HA	1.76	1.16
1:D:626:PHE:CB	1:D:641:GLU:HB3	1.75	1.16
1:C:626:PHE:CB	1:C:641:GLU:HB3	1.75	1.16
1:A:626:PHE:O	1:A:641:GLU:HB2	1.43	1.16
1:D:360:HIS:HD2	1:D:361:PRO:CD	1.59	1.15
1:A:360:HIS:HD2	1:A:361:PRO:CD	1.59	1.15
1:C:824:GLN:NE2	1:C:825:CYS:CA	2.08	1.15
1:B:33:PHE:HB2	1:B:326:GLU:CD	1.66	1.15
1:B:652:LEU:HD11	1:B:698:VAL:CG1	1.75	1.15
1:C:106:PRO:CG	1:C:191:TRP:CH2	2.29	1.15
1:D:358:GLU:HG2	1:D:367:MET:CE	1.63	1.15
1:A:111:PRO:HB3	1:A:196:TYR:CE2	1.80	1.15
1:D:589:GLY:CA	1:D:599:ARG:HA	1.76	1.15
1:B:589:GLY:CA	1:B:599:ARG:HA	1.76	1.15
1:C:232:ASN:OD1	1:C:237:ARG:O	1.64	1.15
1:D:232:ASN:OD1	1:D:237:ARG:O	1.64	1.15
1:D:685:LEU:HD13	1:D:722:LEU:HD11	1.20	1.15
1:C:358:GLU:HG2	1:C:367:MET:CE	1.63	1.15
1:C:360:HIS:HD2	1:C:361:PRO:CD	1.59	1.15
1:B:360:HIS:HD2	1:B:361:PRO:CD	1.59	1.15
1:C:33:PHE:HB2	1:C:326:GLU:CD	1.67	1.15
1:D:824:GLN:NE2	1:D:825:CYS:CA	2.08	1.15
1:A:33:PHE:HB2	1:A:326:GLU:CD	1.67	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:106:PRO:CG	1:D:191:TRP:CH2	2.29	1.15
1:C:91:GLN:HG3	1:C:190:ARG:NH2	1.59	1.15
1:A:91:GLN:HG3	1:A:190:ARG:NH2	1.59	1.15
1:B:111:PRO:HB3	1:B:196:TYR:CE2	1.80	1.15
1:A:540:HIS:NE2	1:A:604:ASN:OD1	1.78	1.15
1:B:908:ASP:HA	1:B:1007:PHE:CE1	1.80	1.15
1:A:908:ASP:HA	1:A:1007:PHE:CE1	1.80	1.15
1:C:524:LEU:HD11	1:C:562:LEU:CD1	1.76	1.15
1:D:33:PHE:HB2	1:D:326:GLU:CD	1.67	1.15
1:D:91:GLN:HG3	1:D:190:ARG:NH2	1.59	1.15
1:C:768:MET:CE	1:C:1020:TRP:CE3	2.28	1.15
1:A:589:GLY:CA	1:A:599:ARG:HA	1.76	1.15
1:B:540:HIS:NE2	1:B:604:ASN:OD1	1.78	1.15
1:D:524:LEU:HD11	1:D:562:LEU:CD1	1.76	1.15
1:A:764:PHE:CD1	1:A:781:ARG:CG	2.30	1.15
1:B:764:PHE:CD1	1:B:781:ARG:CG	2.30	1.15
1:D:770:ILE:HG22	1:D:775:GLN:NE2	1.59	1.15
1:D:768:MET:CE	1:D:1020:TRP:CE3	2.28	1.15
1:A:626:PHE:CB	1:A:641:GLU:HB3	1.75	1.15
1:B:824:GLN:NE2	1:B:825:CYS:CA	2.08	1.15
1:A:824:GLN:NE2	1:A:825:CYS:CA	2.08	1.15
1:A:106:PRO:CG	1:A:191:TRP:CH2	2.29	1.15
1:B:106:PRO:CG	1:B:191:TRP:CH2	2.29	1.15
1:D:16:TRP:O	1:D:193:ASP:CB	1.95	1.15
1:C:16:TRP:O	1:C:193:ASP:CB	1.95	1.15
1:B:626:PHE:CB	1:B:641:GLU:HB3	1.75	1.15
1:C:524:LEU:HD11	1:C:562:LEU:HD12	1.21	1.15
1:C:685:LEU:HD13	1:C:722:LEU:HD11	1.19	1.15
1:C:389:CYS:CB	1:C:394:ASN:HD21	1.59	1.14
1:A:764:PHE:CD2	1:A:840:HIS:CE1	2.34	1.14
1:A:758:PHE:HE1	1:A:765:LEU:HD23	1.08	1.14
1:B:758:PHE:HE1	1:B:765:LEU:HD23	1.08	1.14
1:B:764:PHE:CD2	1:B:840:HIS:CE1	2.34	1.14
1:C:770:ILE:HG22	1:C:775:GLN:NE2	1.59	1.14
1:B:217:LYS:HD2	1:B:221:GLN:HG3	1.25	1.14
1:A:768:MET:CE	1:A:1020:TRP:CE3	2.28	1.14
1:D:524:LEU:HD11	1:D:562:LEU:HD12	1.21	1.14
1:D:389:CYS:CB	1:D:394:ASN:HD21	1.59	1.14
1:D:429:ASP:OD1	1:D:430:PRO:HD2	1.44	1.14
1:C:758:PHE:HE1	1:C:765:LEU:HD23	1.08	1.14
1:B:16:TRP:O	1:B:193:ASP:CB	1.95	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:16:TRP:O	1:A:193:ASP:CB	1.95	1.14
1:B:867:THR:HG22	1:B:1017:GLN:CD	1.68	1.14
1:A:867:THR:HG22	1:A:1017:GLN:CD	1.68	1.14
1:C:429:ASP:OD1	1:C:430:PRO:HD2	1.44	1.14
1:A:217:LYS:HD2	1:A:221:GLN:HG3	1.25	1.14
1:B:89:ASN:ND2	1:B:365:GLN:HB2	1.63	1.14
1:A:359:HIS:N	1:A:367:MET:HE1	1.63	1.14
1:C:764:PHE:CD1	1:C:781:ARG:CG	2.30	1.14
1:D:764:PHE:CD1	1:D:781:ARG:CG	2.30	1.14
1:B:36:TRP:CZ2	1:B:42:ALA:HA	1.81	1.14
1:A:89:ASN:ND2	1:A:365:GLN:HB2	1.63	1.14
1:C:556:PHE:CD1	1:C:564:GLY:HA2	1.83	1.14
1:D:556:PHE:CD1	1:D:564:GLY:HA2	1.83	1.14
1:C:217:LYS:HD2	1:C:221:GLN:HG3	1.25	1.13
1:D:217:LYS:HD2	1:D:221:GLN:HG3	1.25	1.13
1:A:36:TRP:CZ2	1:A:42:ALA:HA	1.81	1.13
1:D:758:PHE:HE1	1:D:765:LEU:HD23	1.08	1.13
1:B:389:CYS:CB	1:B:394:ASN:HD21	1.59	1.13
1:C:427:THR:CA	1:C:436:MET:HE3	1.71	1.13
1:A:89:ASN:HD21	1:A:365:GLN:CB	1.61	1.13
1:B:89:ASN:HD21	1:B:365:GLN:CB	1.61	1.13
1:B:229:THR:CG2	1:B:231:PHE:CE1	2.29	1.12
1:D:14:ARG:CD	1:D:17:GLU:HG3	1.78	1.12
1:A:14:ARG:CD	1:A:17:GLU:HG3	1.78	1.12
1:B:556:PHE:CD1	1:B:564:GLY:HA2	1.83	1.12
1:B:939:CYS:SG	1:B:956:GLN:HG2	1.88	1.12
1:A:939:CYS:SG	1:A:956:GLN:HG2	1.88	1.13
1:D:540:HIS:O	1:D:545:SER:HB3	1.49	1.12
1:C:540:HIS:O	1:C:545:SER:HB3	1.49	1.12
1:C:939:CYS:SG	1:C:956:GLN:HG2	1.88	1.12
1:D:939:CYS:SG	1:D:956:GLN:HG2	1.89	1.13
1:A:898:LEU:HD21	1:A:915:PHE:CZ	1.83	1.13
1:A:389:CYS:CB	1:A:394:ASN:HD21	1.59	1.13
1:D:898:LEU:HD21	1:D:915:PHE:CZ	1.83	1.13
1:D:891:VAL:CG1	1:D:961:ARG:HH21	1.62	1.12
1:C:898:LEU:HD21	1:C:915:PHE:CZ	1.83	1.12
1:B:898:LEU:HD21	1:B:915:PHE:CZ	1.83	1.12
1:A:229:THR:CG2	1:A:231:PHE:CE1	2.29	1.12
1:D:89:ASN:ND2	1:D:365:GLN:HB2	1.63	1.12
1:C:14:ARG:CD	1:C:17:GLU:HG3	1.78	1.12
1:C:89:ASN:ND2	1:C:365:GLN:HB2	1.63	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:556:PHE:CD1	1:A:564:GLY:HA2	1.83	1.12
1:C:891:VAL:CG1	1:C:961:ARG:HH21	1.62	1.12
1:A:764:PHE:CD2	1:A:840:HIS:HE1	1.66	1.12
1:B:764:PHE:CD2	1:B:840:HIS:HE1	1.66	1.12
1:C:33:PHE:CB	1:C:326:GLU:CD	2.17	1.12
1:B:33:PHE:CB	1:B:326:GLU:CD	2.17	1.12
1:A:33:PHE:CB	1:A:326:GLU:CD	2.17	1.12
1:B:14:ARG:CD	1:B:17:GLU:HG3	1.78	1.12
1:B:205:MET:HE1	1:B:365:GLN:HG2	1.12	1.12
1:A:358:GLU:CG	1:A:367:MET:HE2	1.67	1.12
1:D:395:HIS:CG	1:D:396:PRO:HD2	1.84	1.12
1:C:395:HIS:CG	1:C:396:PRO:HD2	1.84	1.12
1:D:237:ARG:HG2	1:D:296:GLU:HG3	1.30	1.12
1:C:867:THR:HG22	1:C:1017:GLN:CD	1.68	1.12
1:D:867:THR:HG22	1:D:1017:GLN:CD	1.68	1.12
1:B:427:THR:CG2	1:B:436:MET:CE	2.28	1.12
1:B:824:GLN:NE2	1:B:825:CYS:C	2.03	1.12
1:A:824:GLN:NE2	1:A:825:CYS:C	2.03	1.12
1:C:33:PHE:CB	1:C:326:GLU:OE2	1.98	1.12
1:D:33:PHE:CB	1:D:326:GLU:OE2	1.98	1.12
1:D:33:PHE:CB	1:D:326:GLU:CD	2.17	1.12
1:B:540:HIS:O	1:B:545:SER:HB3	1.49	1.12
1:A:540:HIS:O	1:A:545:SER:HB3	1.49	1.12
1:C:375:ASP:OD2	1:C:611:ARG:NH1	1.82	1.12
1:A:232:ASN:OD1	1:A:237:ARG:O	1.64	1.12
1:B:232:ASN:OD1	1:B:237:ARG:O	1.64	1.12
1:D:657:ALA:CA	1:D:662:PRO:HA	1.78	1.12
1:B:657:ALA:CA	1:B:662:PRO:HA	1.78	1.12
1:D:603:MET:HE3	1:D:930:VAL:HG21	1.20	1.12
1:D:375:ASP:OD2	1:D:611:ARG:NH1	1.82	1.12
1:C:764:PHE:CD2	1:C:840:HIS:HE1	1.66	1.11
1:D:824:GLN:NE2	1:D:825:CYS:C	2.03	1.11
1:B:246:MET:SD	1:B:250:LEU:HD23	1.89	1.11
1:C:657:ALA:CA	1:C:662:PRO:HA	1.78	1.11
1:A:723:ALA:HB1	1:B:875:ASP:OD2	1.49	1.11
1:A:550:ALA:CA	1:A:623:GLN:HE21	1.64	1.11
1:D:37:ARG:NH1	1:D:218:PRO:CG	2.12	1.11
1:C:237:ARG:HG2	1:C:296:GLU:HG3	1.30	1.11
1:A:875:ASP:OD2	1:B:723:ALA:HB1	1.49	1.11
1:D:246:MET:SD	1:D:250:LEU:HD23	1.89	1.11
1:C:824:GLN:NE2	1:C:825:CYS:C	2.03	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:246:MET:SD	1:A:250:LEU:HD23	1.89	1.11
1:A:657:ALA:CA	1:A:662:PRO:HA	1.78	1.11
1:B:550:ALA:CA	1:B:623:GLN:HE21	1.64	1.11
1:C:37:ARG:NH1	1:C:218:PRO:CG	2.12	1.11
1:A:375:ASP:OD2	1:A:611:ARG:NH1	1.82	1.11
1:B:375:ASP:OD2	1:B:611:ARG:NH1	1.82	1.11
1:B:146:VAL:O	1:B:165:SER:HA	1.50	1.11
1:D:764:PHE:CD2	1:D:840:HIS:HE1	1.66	1.11
1:C:246:MET:SD	1:C:250:LEU:HD23	1.89	1.11
1:D:246:MET:HE3	1:D:274:PHE:CE2	1.86	1.11
1:B:33:PHE:CB	1:B:326:GLU:OE2	1.98	1.11
1:A:33:PHE:CB	1:A:326:GLU:OE2	1.98	1.11
1:D:724:GLU:OE2	1:D:726:LEU:HD23	1.50	1.11
1:A:37:ARG:NH1	1:A:218:PRO:CG	2.12	1.11
1:B:37:ARG:NH1	1:B:218:PRO:CG	2.12	1.11
1:B:891:VAL:CG1	1:B:961:ARG:HH21	1.62	1.11
1:A:146:VAL:O	1:A:165:SER:HA	1.50	1.11
1:A:178:ARG:NH1	1:A:181:GLU:O	1.83	1.11
1:B:178:ARG:NH1	1:B:181:GLU:O	1.83	1.11
1:B:770:ILE:HG22	1:B:775:GLN:NE2	1.59	1.11
1:C:246:MET:HE3	1:C:274:PHE:CE2	1.86	1.11
1:C:724:GLU:OE2	1:C:726:LEU:HD23	1.50	1.11
1:C:651:LEU:HG	1:C:703:PRO:CG	1.80	1.11
1:C:205:MET:HE1	1:C:365:GLN:HG2	1.13	1.11
1:B:651:LEU:HG	1:B:703:PRO:CG	1.81	1.11
1:A:651:LEU:HG	1:A:703:PRO:CG	1.81	1.11
1:D:542:MET:O	1:D:790:ASP:OD2	1.68	1.11
1:C:542:MET:O	1:C:790:ASP:OD2	1.68	1.11
1:B:427:THR:CG2	1:B:436:MET:HE1	1.80	1.11
1:A:770:ILE:HG22	1:A:775:GLN:NE2	1.59	1.11
1:D:651:LEU:HG	1:D:703:PRO:CG	1.81	1.11
1:C:229:THR:CG2	1:C:231:PHE:CE1	2.29	1.11
1:D:89:ASN:HD21	1:D:365:GLN:CB	1.61	1.11
1:C:603:MET:HE3	1:C:930:VAL:HG21	1.21	1.11
1:A:891:VAL:CG1	1:A:961:ARG:HH21	1.62	1.11
1:A:524:LEU:HD11	1:A:562:LEU:HD12	1.21	1.11
1:B:524:LEU:HD11	1:B:562:LEU:HD12	1.21	1.11
1:D:440:VAL:HB	1:D:471:LEU:HD11	1.30	1.11
1:C:959:ILE:HD12	1:C:984:LEU:HD12	1.18	1.11
1:D:959:ILE:HD12	1:D:984:LEU:HD12	1.18	1.11
1:C:440:VAL:HB	1:C:471:LEU:HD11	1.30	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:427:THR:CG2	1:D:436:MET:CE	2.28	1.10
1:C:33:PHE:HB2	1:C:326:GLU:OE2	1.51	1.10
1:D:229:THR:CG2	1:D:231:PHE:CE1	2.29	1.10
1:A:723:ALA:CB	1:B:875:ASP:OD2	1.99	1.10
1:D:106:PRO:HG2	1:D:191:TRP:CH2	1.86	1.10
1:C:106:PRO:HG2	1:C:191:TRP:CH2	1.86	1.10
1:C:89:ASN:HD21	1:C:365:GLN:CB	1.61	1.10
1:A:395:HIS:CG	1:A:396:PRO:HD2	1.84	1.10
1:D:23:GLN:HG2	1:D:26:ARG:HE	1.15	1.10
1:C:23:GLN:HG2	1:C:26:ARG:HE	1.15	1.10
1:B:395:HIS:CG	1:B:396:PRO:HD2	1.84	1.10
1:B:336:ARG:NE	1:B:338:GLU:OE1	1.84	1.10
1:B:801:ILE:HG23	1:B:808:GLU:OE2	1.51	1.10
1:B:542:MET:O	1:B:790:ASP:OD2	1.68	1.10
1:A:875:ASP:OD2	1:B:723:ALA:CB	2.00	1.10
1:D:33:PHE:HB2	1:D:326:GLU:OE2	1.51	1.10
1:B:272:ALA:CB	1:B:291:LEU:HD21	1.82	1.10
1:C:7:LEU:HD22	1:C:71:GLU:HA	1.26	1.10
1:C:550:ALA:CA	1:C:623:GLN:HE21	1.64	1.10
1:A:801:ILE:HG23	1:A:808:GLU:OE2	1.51	1.10
1:A:542:MET:O	1:A:790:ASP:OD2	1.68	1.10
1:B:959:ILE:HD12	1:B:984:LEU:HD12	1.18	1.10
1:A:272:ALA:CB	1:A:291:LEU:HD21	1.82	1.10
1:D:550:ALA:CA	1:D:623:GLN:HE21	1.64	1.10
1:A:336:ARG:NE	1:A:338:GLU:OE1	1.84	1.10
1:A:959:ILE:HD12	1:A:984:LEU:HD12	1.18	1.10
1:C:14:ARG:HD3	1:C:17:GLU:HG3	1.28	1.10
1:A:205:MET:HE1	1:A:365:GLN:HG2	1.15	1.10
1:C:272:ALA:CB	1:C:291:LEU:HD21	1.82	1.10
1:C:146:VAL:O	1:C:165:SER:HA	1.50	1.10
1:C:148:SER:OG	1:C:192:SER:HB3	1.52	1.10
1:D:148:SER:OG	1:D:192:SER:HB3	1.52	1.10
1:D:427:THR:HG22	1:D:436:MET:HE2	1.28	1.09
1:C:758:PHE:CE1	1:C:765:LEU:HD23	1.87	1.09
1:D:758:PHE:CE1	1:D:765:LEU:HD23	1.87	1.09
1:D:14:ARG:HD3	1:D:17:GLU:HG3	1.27	1.09
1:D:205:MET:HE1	1:D:365:GLN:HG2	1.13	1.09
1:C:891:VAL:HG11	1:C:961:ARG:NH2	1.67	1.09
1:D:891:VAL:HG11	1:D:961:ARG:NH2	1.67	1.09
1:B:509:ASP:CB	1:B:518:TRP:HA	1.81	1.09
1:D:509:ASP:CB	1:D:518:TRP:HA	1.81	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:272:ALA:CB	1:D:291:LEU:HD21	1.82	1.09
1:C:509:ASP:CB	1:C:518:TRP:HA	1.81	1.09
1:C:723:ALA:CB	1:D:875:ASP:OD2	1.99	1.09
1:B:349:LEU:HD23	1:B:351:ILE:HG12	1.33	1.09
1:D:7:LEU:HD22	1:D:71:GLU:HA	1.26	1.09
1:A:14:ARG:HD3	1:A:17:GLU:HG3	1.27	1.09
1:A:358:GLU:C	1:A:367:MET:HE1	1.72	1.09
1:A:509:ASP:CB	1:A:518:TRP:HA	1.81	1.09
1:D:336:ARG:NE	1:D:338:GLU:OE1	1.84	1.09
1:A:607:VAL:HG12	1:A:617:LEU:HD12	1.24	1.09
1:B:146:VAL:O	1:B:165:SER:CA	2.00	1.09
1:A:146:VAL:O	1:A:165:SER:CA	2.00	1.09
1:D:146:VAL:O	1:D:165:SER:HA	1.50	1.09
1:C:875:ASP:OD2	1:D:723:ALA:CB	1.99	1.09
1:D:178:ARG:NH1	1:D:181:GLU:O	1.83	1.09
1:C:742:THR:HG21	1:C:760:ARG:NH2	1.66	1.09
1:A:349:LEU:HD23	1:A:351:ILE:HG12	1.33	1.09
1:B:106:PRO:HG2	1:B:191:TRP:CH2	1.86	1.09
1:C:336:ARG:NE	1:C:338:GLU:OE1	1.84	1.09
1:C:427:THR:CG2	1:C:436:MET:CE	2.28	1.09
1:C:178:ARG:NH1	1:C:181:GLU:O	1.83	1.09
1:D:742:THR:HG21	1:D:760:ARG:NH2	1.67	1.09
1:A:758:PHE:CE1	1:A:765:LEU:HD23	1.87	1.09
1:B:758:PHE:CE1	1:B:765:LEU:HD23	1.87	1.09
1:B:724:GLU:OE2	1:B:726:LEU:HD23	1.50	1.09
1:A:106:PRO:HG2	1:A:191:TRP:CH2	1.86	1.09
1:B:607:VAL:HG12	1:B:617:LEU:HD12	1.24	1.09
1:A:724:GLU:OE2	1:A:726:LEU:HD23	1.50	1.09
1:D:197:LEU:HD13	1:D:415:ILE:HG23	1.09	1.09
1:D:54:LEU:HD11	1:D:214:LEU:HD11	1.34	1.09
1:C:197:LEU:HD13	1:C:415:ILE:HG23	1.09	1.09
1:C:54:LEU:HD11	1:C:214:LEU:HD11	1.34	1.09
1:B:603:MET:HE3	1:B:930:VAL:HG21	1.13	1.09
1:A:863:GLN:OE1	1:A:1019:VAL:HG11	1.51	1.09
1:B:349:LEU:HD21	1:B:351:ILE:CG1	1.79	1.08
1:A:515:VAL:HG23	1:D:280:ASP:CB	1.83	1.08
1:B:14:ARG:HD3	1:B:17:GLU:HG3	1.28	1.08
1:B:515:VAL:HG23	1:C:280:ASP:CB	1.83	1.08
1:A:389:CYS:HB3	1:A:394:ASN:HD21	0.92	1.08
1:B:863:GLN:OE1	1:B:1019:VAL:HG11	1.51	1.08
1:A:764:PHE:CE1	1:A:781:ARG:CG	2.37	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:764:PHE:CE1	1:B:781:ARG:CG	2.37	1.08
1:A:349:LEU:HD21	1:A:351:ILE:CG1	1.79	1.08
1:B:389:CYS:HB3	1:B:394:ASN:HD21	0.92	1.08
1:A:9:VAL:CG1	1:D:9:VAL:CG1	2.31	1.08
1:D:349:LEU:HD21	1:D:351:ILE:HD11	1.35	1.08
1:D:657:ALA:HA	1:D:662:PRO:HA	1.09	1.08
1:B:657:ALA:HA	1:B:662:PRO:HA	1.09	1.08
1:D:105:TYR:OH	1:D:420:MET:HG2	1.53	1.08
1:A:603:MET:HE3	1:A:930:VAL:HG21	1.13	1.08
1:C:863:GLN:OE1	1:C:1019:VAL:HG11	1.51	1.08
1:D:863:GLN:OE1	1:D:1019:VAL:HG11	1.51	1.08
1:C:358:GLU:C	1:C:367:MET:CE	2.22	1.08
1:C:349:LEU:HD21	1:C:351:ILE:HD11	1.35	1.08
1:D:691:ALA:CB	1:D:727:SER:CB	2.31	1.08
1:C:657:ALA:HA	1:C:662:PRO:HA	1.09	1.08
1:A:657:ALA:HA	1:A:662:PRO:HA	1.09	1.08
1:D:358:GLU:C	1:D:367:MET:CE	2.22	1.08
1:B:359:HIS:N	1:B:367:MET:HE1	1.68	1.08
1:B:237:ARG:HG2	1:B:296:GLU:HG3	1.30	1.08
1:A:148:SER:OG	1:A:192:SER:HB3	1.52	1.08
1:B:9:VAL:CG1	1:C:9:VAL:CG1	2.31	1.08
1:C:691:ALA:CB	1:C:727:SER:CB	2.31	1.08
1:C:105:TYR:OH	1:C:420:MET:HG2	1.53	1.08
1:A:91:GLN:CG	1:A:190:ARG:NH2	2.17	1.08
1:C:801:ILE:HG23	1:C:808:GLU:OE2	1.51	1.08
1:A:891:VAL:HG11	1:A:961:ARG:NH2	1.67	1.08
1:A:237:ARG:HG2	1:A:296:GLU:HG3	1.30	1.08
1:B:148:SER:OG	1:B:192:SER:HB3	1.52	1.08
1:D:146:VAL:O	1:D:165:SER:CA	2.01	1.08
1:C:723:ALA:HB1	1:D:875:ASP:OD2	1.49	1.08
1:B:54:LEU:HD11	1:B:214:LEU:HD11	1.34	1.08
1:C:854:LYS:HD3	1:C:856:TYR:OH	1.54	1.08
1:C:246:MET:CG	1:C:274:PHE:CE2	2.30	1.07
1:A:390:SER:CB	1:A:391:HIS:HD1	1.66	1.07
1:A:7:LEU:HD22	1:A:71:GLU:HA	1.26	1.07
1:B:91:GLN:CG	1:B:190:ARG:NH2	2.17	1.07
1:B:390:SER:CB	1:B:391:HIS:HD1	1.66	1.07
1:D:801:ILE:HG23	1:D:808:GLU:OE2	1.51	1.07
1:B:550:ALA:CA	1:B:623:GLN:NE2	2.17	1.07
1:A:550:ALA:CA	1:A:623:GLN:NE2	2.17	1.07
1:B:891:VAL:HG11	1:B:961:ARG:NH2	1.67	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:146:VAL:O	1:C:165:SER:CA	2.00	1.07
1:C:875:ASP:OD2	1:D:723:ALA:HB1	1.49	1.07
1:A:54:LEU:HD11	1:A:214:LEU:HD11	1.34	1.07
1:D:854:LYS:HD3	1:D:856:TYR:OH	1.54	1.07
1:B:670:LEU:HD12	1:B:678:GLN:OE1	1.53	1.07
1:C:358:GLU:HG2	1:C:367:MET:HE2	1.23	1.07
1:B:427:THR:HG22	1:B:436:MET:HE2	1.34	1.07
1:D:246:MET:CG	1:D:274:PHE:CE2	2.30	1.07
1:C:824:GLN:NE2	1:C:825:CYS:N	2.02	1.07
1:B:33:PHE:HB2	1:B:326:GLU:OE2	1.51	1.07
1:D:146:VAL:O	1:D:165:SER:CB	2.02	1.07
1:A:670:LEU:HD12	1:A:678:GLN:OE1	1.53	1.07
1:A:427:THR:CG2	1:A:436:MET:CE	2.28	1.07
1:B:824:GLN:NE2	1:B:825:CYS:N	2.02	1.07
1:A:824:GLN:NE2	1:A:825:CYS:N	2.02	1.07
1:D:824:GLN:NE2	1:D:825:CYS:N	2.02	1.07
1:A:33:PHE:HB2	1:A:326:GLU:OE2	1.51	1.07
1:A:651:LEU:HD11	1:A:703:PRO:HG3	1.35	1.07
1:A:550:ALA:HA	1:A:623:GLN:HE21	0.97	1.07
1:B:607:VAL:CG1	1:B:617:LEU:HD12	1.84	1.07
1:C:146:VAL:O	1:C:165:SER:CB	2.02	1.07
1:C:764:PHE:CE1	1:C:781:ARG:CG	2.37	1.07
1:D:764:PHE:CE1	1:D:781:ARG:CG	2.37	1.07
1:D:658:LEU:N	1:D:661:LYS:O	1.87	1.07
1:D:60:PHE:O	1:D:81:ALA:HB1	1.55	1.07
1:D:390:SER:CB	1:D:391:HIS:HD1	1.66	1.07
1:C:60:PHE:O	1:C:81:ALA:HB1	1.55	1.07
1:B:651:LEU:HD11	1:B:703:PRO:HG3	1.35	1.07
1:D:170:GLU:N	1:D:170:GLU:OE1	1.88	1.07
1:C:170:GLU:OE1	1:C:170:GLU:N	1.88	1.07
1:A:607:VAL:CG1	1:A:617:LEU:HD12	1.84	1.07
1:A:440:VAL:HB	1:A:471:LEU:HD11	1.30	1.07
1:B:440:VAL:HB	1:B:471:LEU:HD11	1.29	1.07
1:A:3:ILE:HG22	1:A:9:VAL:HG21	1.11	1.07
1:D:349:LEU:HD23	1:D:351:ILE:HG12	1.33	1.07
1:C:658:LEU:N	1:C:661:LYS:O	1.87	1.07
1:A:658:LEU:N	1:A:661:LYS:O	1.87	1.07
1:D:91:GLN:CG	1:D:190:ARG:NH2	2.17	1.07
1:A:417:THR:CG2	1:A:420:MET:HG3	1.85	1.07
1:B:417:THR:CG2	1:B:420:MET:HG3	1.85	1.07
1:B:105:TYR:OH	1:B:420:MET:HG2	1.53	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:7:LEU:HD22	1:B:71:GLU:HA	1.26	1.07
1:A:358:GLU:C	1:A:367:MET:CE	2.22	1.07
1:B:358:GLU:C	1:B:367:MET:CE	2.22	1.07
1:C:550:ALA:CA	1:C:623:GLN:NE2	2.17	1.07
1:D:550:ALA:CA	1:D:623:GLN:NE2	2.17	1.07
1:B:550:ALA:HA	1:B:623:GLN:HE21	0.97	1.07
1:B:3:ILE:HG22	1:B:9:VAL:HG21	1.11	1.07
1:D:349:LEU:HD21	1:D:351:ILE:HD13	1.30	1.06
1:A:349:LEU:HD21	1:A:351:ILE:HD13	1.30	1.06
1:C:100:TYR:CZ	1:C:602:CYS:CB	2.37	1.06
1:D:100:TYR:CZ	1:D:602:CYS:CB	2.37	1.06
1:B:658:LEU:N	1:B:661:LYS:O	1.87	1.06
1:C:390:SER:CB	1:C:391:HIS:HD1	1.66	1.06
1:C:417:THR:CG2	1:C:420:MET:HG3	1.85	1.06
1:C:91:GLN:CG	1:C:190:ARG:NH2	2.17	1.06
1:B:908:ASP:HA	1:B:1007:PHE:CZ	1.91	1.06
1:A:908:ASP:HA	1:A:1007:PHE:CZ	1.91	1.06
1:D:474:TRP:CZ2	1:D:478:VAL:HG11	1.90	1.06
1:C:349:LEU:HD23	1:C:351:ILE:HG12	1.33	1.06
1:D:654:TRP:CE2	1:D:666:GLY:CA	2.39	1.06
1:C:654:TRP:CE2	1:C:666:GLY:CA	2.39	1.06
1:B:30:HIS:NE2	1:B:33:PHE:CZ	2.23	1.06
1:A:30:HIS:NE2	1:A:33:PHE:CZ	2.23	1.06
1:A:691:ALA:CB	1:A:727:SER:CB	2.31	1.06
1:D:417:THR:CG2	1:D:420:MET:HG3	1.85	1.06
1:B:281:GLU:OE2	1:C:423:MET:HE1	1.53	1.06
1:A:105:TYR:OH	1:A:420:MET:HG2	1.53	1.06
1:A:14:ARG:HD3	1:A:17:GLU:CG	1.86	1.06
1:D:395:HIS:CE1	1:D:396:PRO:HD2	1.90	1.06
1:C:395:HIS:CE1	1:C:396:PRO:HD2	1.90	1.06
1:D:607:VAL:CG1	1:D:617:LEU:HD12	1.84	1.06
1:C:670:LEU:HD12	1:C:678:GLN:OE1	1.53	1.06
1:B:474:TRP:CZ2	1:B:478:VAL:HG11	1.90	1.06
1:C:974:HIS:CE1	1:C:975:LEU:HD23	1.89	1.06
1:D:974:HIS:CE1	1:D:975:LEU:HD23	1.90	1.06
1:B:691:ALA:CB	1:B:727:SER:CB	2.31	1.06
1:D:359:HIS:N	1:D:367:MET:HE1	1.68	1.06
1:B:14:ARG:HD3	1:B:17:GLU:CG	1.86	1.06
1:B:891:VAL:CG1	1:B:961:ARG:NH2	2.19	1.06
1:A:891:VAL:CG1	1:A:961:ARG:NH2	2.19	1.06
1:C:607:VAL:CG1	1:C:617:LEU:HD12	1.84	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:146:VAL:O	1:A:165:SER:CB	2.02	1.06
1:D:3:ILE:HG22	1:D:9:VAL:HG21	1.11	1.06
1:D:670:LEU:HD12	1:D:678:GLN:OE1	1.53	1.06
1:C:474:TRP:CZ2	1:C:478:VAL:HG11	1.90	1.06
1:A:474:TRP:CZ2	1:A:478:VAL:HG11	1.90	1.06
1:C:349:LEU:HD21	1:C:351:ILE:HD13	1.30	1.06
1:B:349:LEU:HD21	1:B:351:ILE:HD13	1.30	1.06
1:D:824:GLN:HE21	1:D:825:CYS:N	1.54	1.06
1:C:824:GLN:HE21	1:C:825:CYS:N	1.54	1.06
1:B:246:MET:CE	1:B:274:PHE:CE2	2.38	1.06
1:A:280:ASP:CB	1:D:515:VAL:HG23	1.84	1.06
1:B:146:VAL:O	1:B:165:SER:CB	2.02	1.06
1:C:509:ASP:HB3	1:C:518:TRP:HA	1.37	1.06
1:C:30:HIS:NE2	1:C:33:PHE:CZ	2.23	1.06
1:C:30:HIS:NE2	1:C:33:PHE:CE1	2.24	1.06
1:D:30:HIS:NE2	1:D:33:PHE:CE1	2.24	1.06
1:D:30:HIS:NE2	1:D:33:PHE:CZ	2.23	1.06
1:A:246:MET:CE	1:A:274:PHE:CE2	2.38	1.06
1:B:280:ASP:CB	1:C:515:VAL:HG23	1.84	1.06
1:C:891:VAL:CG1	1:C:961:ARG:NH2	2.19	1.06
1:D:891:VAL:CG1	1:D:961:ARG:NH2	2.19	1.06
1:D:509:ASP:HB3	1:D:518:TRP:HA	1.37	1.06
1:D:963:SER:HB3	1:D:979:GLU:OE1	1.55	1.06
1:D:349:LEU:HD21	1:D:351:ILE:CG1	1.79	1.05
1:C:246:MET:CE	1:C:274:PHE:CE2	2.38	1.05
1:B:100:TYR:CZ	1:B:602:CYS:CB	2.37	1.05
1:A:100:TYR:CZ	1:A:602:CYS:CB	2.37	1.05
1:D:14:ARG:HD3	1:D:17:GLU:CG	1.86	1.05
1:C:14:ARG:HD3	1:C:17:GLU:CG	1.86	1.05
1:B:197:LEU:HD13	1:B:415:ILE:HG23	1.09	1.05
1:C:21:VAL:HG11	1:C:24:LEU:HD21	1.39	1.05
1:D:387:VAL:HG12	1:D:407:LEU:HD23	1.06	1.05
1:C:3:ILE:HG22	1:C:9:VAL:HG21	1.11	1.05
1:B:86:VAL:HG13	1:B:87:PRO:HA	1.38	1.05
1:C:963:SER:HB3	1:C:979:GLU:OE1	1.55	1.05
1:A:963:SER:HB3	1:A:979:GLU:OE1	1.55	1.05
1:A:854:LYS:HD3	1:A:856:TYR:OH	1.54	1.05
1:C:349:LEU:HD21	1:C:351:ILE:CG1	1.79	1.05
1:D:246:MET:CE	1:D:274:PHE:CE2	2.38	1.05
1:A:197:LEU:HD13	1:A:415:ILE:HG23	1.09	1.05
1:A:423:MET:HE1	1:D:281:GLU:OE2	1.55	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:423:MET:HE1	1:C:281:GLU:OE2	1.55	1.05
1:B:358:GLU:CG	1:B:367:MET:HE2	1.74	1.05
1:D:21:VAL:HG11	1:D:24:LEU:HD21	1.39	1.05
1:D:336:ARG:CZ	1:D:338:GLU:CD	2.22	1.05
1:B:336:ARG:NH1	1:B:338:GLU:OE2	1.88	1.05
1:A:86:VAL:HG13	1:A:87:PRO:HA	1.38	1.05
1:A:706:THR:HG21	1:A:708:TRP:NE1	1.71	1.05
1:B:706:THR:HG21	1:B:708:TRP:NE1	1.71	1.05
1:A:515:VAL:HG23	1:D:280:ASP:HB2	1.36	1.05
1:C:336:ARG:CZ	1:C:338:GLU:CD	2.22	1.05
1:C:387:VAL:HG12	1:C:407:LEU:HD23	1.06	1.05
1:B:963:SER:HB3	1:B:979:GLU:OE1	1.55	1.05
1:B:854:LYS:HD3	1:B:856:TYR:OH	1.54	1.05
1:A:823:LEU:HD21	1:A:839:ALA:HB1	1.34	1.05
1:D:358:GLU:C	1:D:367:MET:HE1	1.77	1.05
1:A:336:ARG:NH1	1:A:338:GLU:OE2	1.88	1.05
1:A:387:VAL:CG1	1:A:407:LEU:HD23	1.87	1.05
1:B:387:VAL:CG1	1:B:407:LEU:HD23	1.87	1.05
1:A:929:TYR:O	1:A:973:ARG:HB3	1.56	1.05
1:B:823:LEU:HD21	1:B:839:ALA:HB1	1.34	1.05
1:D:974:HIS:NE2	1:D:975:LEU:CD2	2.20	1.05
1:A:395:HIS:CE1	1:A:396:PRO:HD2	1.90	1.05
1:D:336:ARG:NH1	1:D:338:GLU:OE2	1.88	1.05
1:A:170:GLU:N	1:A:170:GLU:OE1	1.88	1.05
1:B:929:TYR:O	1:B:973:ARG:HB3	1.57	1.05
1:A:349:LEU:HD21	1:A:351:ILE:HD11	1.35	1.04
1:C:974:HIS:NE2	1:C:975:LEU:CD2	2.20	1.04
1:D:91:GLN:NE2	1:D:96:ASP:CB	2.01	1.04
1:C:91:GLN:NE2	1:C:96:ASP:CB	2.01	1.04
1:A:111:PRO:CB	1:A:196:TYR:CE2	2.40	1.04
1:B:515:VAL:HG23	1:C:280:ASP:HB2	1.36	1.04
1:B:395:HIS:CE1	1:B:396:PRO:HD2	1.90	1.04
1:B:111:PRO:CB	1:B:196:TYR:CE2	2.40	1.04
1:C:336:ARG:NH1	1:C:338:GLU:OE2	1.88	1.04
1:B:170:GLU:N	1:B:170:GLU:OE1	1.88	1.04
1:A:387:VAL:HG12	1:A:407:LEU:HD23	1.06	1.04
1:B:387:VAL:HG12	1:B:407:LEU:HD23	1.06	1.04
1:D:908:ASP:HA	1:D:1007:PHE:CZ	1.91	1.04
1:C:908:ASP:HA	1:C:1007:PHE:CZ	1.91	1.04
1:B:824:GLN:HE21	1:B:825:CYS:N	1.54	1.04
1:A:824:GLN:HE21	1:A:825:CYS:N	1.54	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:823:LEU:HD21	1:C:839:ALA:HB1	1.34	1.04
1:B:23:GLN:HG2	1:B:26:ARG:HE	1.15	1.04
1:C:37:ARG:HH12	1:C:218:PRO:CD	1.69	1.04
1:B:509:ASP:HB3	1:B:518:TRP:HA	1.37	1.04
1:B:349:LEU:HD21	1:B:351:ILE:HD11	1.35	1.04
1:D:823:LEU:HD21	1:D:839:ALA:HB1	1.34	1.04
1:A:30:HIS:NE2	1:A:33:PHE:CE1	2.24	1.04
1:A:654:TRP:CE2	1:A:666:GLY:CA	2.39	1.04
1:D:691:ALA:HB2	1:D:727:SER:CB	1.88	1.04
1:C:691:ALA:HB2	1:C:727:SER:CB	1.88	1.04
1:D:37:ARG:HH12	1:D:218:PRO:CD	1.69	1.04
1:B:30:HIS:NE2	1:B:33:PHE:CE1	2.24	1.04
1:B:654:TRP:CE2	1:B:666:GLY:CA	2.39	1.04
1:B:358:GLU:HG2	1:B:367:MET:HE2	1.06	1.04
1:A:23:GLN:HG2	1:A:26:ARG:HE	1.15	1.04
1:A:37:ARG:HH12	1:A:218:PRO:CD	1.69	1.04
1:B:37:ARG:HH12	1:B:218:PRO:CD	1.69	1.04
1:D:343:LEU:HD23	1:D:347:LYS:C	1.78	1.04
1:D:706:THR:HG21	1:D:708:TRP:NE1	1.71	1.04
1:B:833:ALA:HB1	1:B:858:ILE:O	1.58	1.04
1:A:833:ALA:HB1	1:A:858:ILE:O	1.58	1.04
1:C:824:GLN:HB2	1:D:730:LEU:CD1	1.88	1.04
1:A:509:ASP:HB3	1:A:518:TRP:HA	1.37	1.04
1:C:387:VAL:CG1	1:C:407:LEU:HD23	1.87	1.04
1:B:867:THR:CG2	1:B:1017:GLN:CD	2.26	1.04
1:A:867:THR:CG2	1:A:1017:GLN:CD	2.26	1.04
1:C:343:LEU:HD23	1:C:347:LYS:C	1.78	1.04
1:C:730:LEU:CD1	1:D:824:GLN:HB2	1.88	1.03
1:B:974:HIS:CE1	1:B:975:LEU:HD23	1.90	1.03
1:A:974:HIS:CE1	1:A:975:LEU:HD23	1.90	1.03
1:B:603:MET:HE3	1:B:930:VAL:CG2	1.87	1.03
1:C:768:MET:HE1	1:C:1020:TRP:CZ3	1.91	1.03
1:D:387:VAL:CG1	1:D:407:LEU:HD23	1.87	1.03
1:C:706:THR:HG21	1:C:708:TRP:NE1	1.71	1.03
1:A:63:PHE:CG	1:A:69:VAL:HG12	1.94	1.03
1:B:63:PHE:CG	1:B:69:VAL:HG12	1.94	1.03
1:D:63:PHE:CG	1:D:69:VAL:HG12	1.94	1.03
1:B:253:TYR:O	1:B:255:ARG:CD	2.07	1.03
1:A:253:TYR:O	1:A:255:ARG:CD	2.07	1.03
1:D:111:PRO:CB	1:D:196:TYR:CE2	2.40	1.03
1:C:111:PRO:CB	1:C:196:TYR:CE2	2.40	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:768:MET:HE1	1:D:1020:TRP:CZ3	1.91	1.03
1:B:336:ARG:CZ	1:B:338:GLU:CD	2.22	1.03
1:A:336:ARG:CZ	1:A:338:GLU:CD	2.22	1.03
1:C:37:ARG:O	1:C:322:LEU:HD11	1.59	1.03
1:C:63:PHE:CG	1:C:69:VAL:HG12	1.93	1.03
1:C:833:ALA:HB1	1:C:858:ILE:O	1.58	1.03
1:D:390:SER:CB	1:D:391:HIS:CE1	2.41	1.03
1:A:603:MET:HE3	1:A:930:VAL:CG2	1.87	1.03
1:B:358:GLU:C	1:B:367:MET:HE1	1.77	1.03
1:C:768:MET:SD	1:C:1020:TRP:CZ3	2.51	1.03
1:D:768:MET:SD	1:D:1020:TRP:CZ3	2.51	1.03
1:D:37:ARG:O	1:D:322:LEU:HD11	1.59	1.03
1:D:833:ALA:HB1	1:D:858:ILE:O	1.58	1.03
1:C:358:GLU:CA	1:C:367:MET:CE	2.37	1.03
1:B:974:HIS:NE2	1:B:975:LEU:CD2	2.20	1.03
1:C:390:SER:CB	1:C:391:HIS:CE1	2.41	1.03
1:D:358:GLU:CA	1:D:367:MET:CE	2.37	1.03
1:D:358:GLU:HG2	1:D:367:MET:HE2	1.06	1.03
1:D:389:CYS:HB3	1:D:394:ASN:HD21	0.92	1.03
1:C:867:THR:CG2	1:C:1017:GLN:CD	2.26	1.03
1:A:974:HIS:NE2	1:A:975:LEU:CD2	2.20	1.03
1:A:60:PHE:O	1:A:81:ALA:HB1	1.55	1.03
1:D:867:THR:CG2	1:D:1017:GLN:CD	2.26	1.03
1:A:343:LEU:HD23	1:A:347:LYS:C	1.78	1.03
1:B:343:LEU:HD23	1:B:347:LYS:C	1.78	1.03
1:D:427:THR:CG2	1:D:436:MET:HE1	1.86	1.02
1:C:651:LEU:HD11	1:C:703:PRO:HG3	1.35	1.02
1:B:91:GLN:NE2	1:B:96:ASP:CB	2.01	1.02
1:B:768:MET:SD	1:B:1020:TRP:CZ3	2.51	1.02
1:A:768:MET:SD	1:A:1020:TRP:CZ3	2.51	1.02
1:A:503:TYR:OH	1:A:537:GLU:OE1	1.76	1.02
1:C:389:CYS:HB3	1:C:394:ASN:HD21	0.92	1.02
1:D:929:TYR:O	1:D:973:ARG:HB3	1.56	1.02
1:A:742:THR:HG21	1:A:760:ARG:NH2	1.67	1.02
1:A:730:LEU:CD1	1:B:824:GLN:HB2	1.89	1.02
1:D:651:LEU:HD11	1:D:703:PRO:HG3	1.35	1.02
1:B:60:PHE:O	1:B:81:ALA:HB1	1.55	1.02
1:A:21:VAL:HG11	1:A:24:LEU:HD21	1.39	1.02
1:D:503:TYR:OH	1:D:537:GLU:OE1	1.76	1.02
1:B:503:TYR:OH	1:B:537:GLU:OE1	1.76	1.02
1:C:503:TYR:OH	1:C:537:GLU:OE1	1.76	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:929:TYR:O	1:C:973:ARG:HB3	1.56	1.02
1:C:358:GLU:HG3	1:C:367:MET:CE	1.71	1.02
1:A:824:GLN:HB2	1:B:730:LEU:CD1	1.89	1.02
1:D:358:GLU:HG3	1:D:367:MET:CE	1.71	1.02
1:A:358:GLU:CA	1:A:367:MET:CE	2.37	1.02
1:B:358:GLU:CA	1:B:367:MET:CE	2.37	1.02
1:B:21:VAL:HG11	1:B:24:LEU:HD21	1.39	1.02
1:C:237:ARG:HG2	1:C:296:GLU:CG	1.89	1.02
1:D:237:ARG:HG2	1:D:296:GLU:CG	1.89	1.02
1:D:472:TYR:OH	1:D:497:ASP:OD1	1.77	1.02
1:C:472:TYR:OH	1:C:497:ASP:OD1	1.77	1.02
1:A:765:LEU:O	1:A:765:LEU:HD12	1.59	1.02
1:B:765:LEU:O	1:B:765:LEU:HD12	1.59	1.02
1:B:36:TRP:NE1	1:B:42:ALA:CB	1.95	1.02
1:A:390:SER:CB	1:A:391:HIS:CE1	2.41	1.02
1:A:91:GLN:NE2	1:A:96:ASP:CB	2.01	1.02
1:B:390:SER:CB	1:B:391:HIS:CE1	2.41	1.02
1:B:167:LEU:HD13	1:B:442:ARG:HB3	1.41	1.02
1:A:237:ARG:HG2	1:A:296:GLU:CG	1.89	1.02
1:D:765:LEU:O	1:D:765:LEU:HD12	1.59	1.02
1:B:742:THR:HG21	1:B:760:ARG:NH2	1.67	1.02
1:D:823:LEU:HD11	1:D:839:ALA:HB3	1.02	1.02
1:C:823:LEU:HD11	1:C:839:ALA:HB3	1.02	1.02
1:A:246:MET:HE3	1:A:274:PHE:CE2	1.94	1.02
1:C:765:LEU:O	1:C:765:LEU:HD12	1.59	1.01
1:A:427:THR:HG22	1:A:436:MET:HE2	1.41	1.01
1:B:824:GLN:HE21	1:B:825:CYS:C	1.61	1.01
1:A:91:GLN:HE22	1:A:96:ASP:HB3	1.25	1.01
1:A:167:LEU:HD13	1:A:442:ARG:HB3	1.41	1.01
1:B:37:ARG:HH11	1:B:218:PRO:HG3	1.25	1.01
1:B:237:ARG:HG2	1:B:296:GLU:CG	1.89	1.01
1:A:824:GLN:HE21	1:A:825:CYS:C	1.61	1.01
1:A:36:TRP:NE1	1:A:42:ALA:CB	1.95	1.01
1:A:691:ALA:HB2	1:A:727:SER:CB	1.88	1.01
1:C:86:VAL:HG13	1:C:87:PRO:HA	1.38	1.01
1:B:651:LEU:HG	1:B:703:PRO:HG3	1.37	1.01
1:C:823:LEU:HD11	1:C:839:ALA:HB1	1.43	1.01
1:A:246:MET:CG	1:A:274:PHE:CE2	2.30	1.01
1:B:691:ALA:HB2	1:B:727:SER:CB	1.88	1.01
1:D:107:ILE:HD11	1:D:196:TYR:HE1	1.23	1.01
1:D:86:VAL:HG13	1:D:87:PRO:HA	1.38	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:91:GLN:HE22	1:B:96:ASP:HB3	1.25	1.01
1:A:387:VAL:CG1	1:A:407:LEU:CD2	2.38	1.01
1:B:3:ILE:CG2	1:B:9:VAL:HG21	1.90	1.01
1:D:36:TRP:NE1	1:D:42:ALA:CB	1.95	1.01
1:D:823:LEU:HD11	1:D:839:ALA:HB1	1.43	1.01
1:C:770:ILE:HG23	1:C:773:LYS:HB2	1.43	1.01
1:B:246:MET:CG	1:B:274:PHE:CE2	2.30	1.01
1:D:115:PRO:O	1:D:118:ASN:ND2	1.94	1.01
1:A:280:ASP:CB	1:D:515:VAL:CG2	2.39	1.01
1:C:107:ILE:HD11	1:C:196:TYR:HE1	1.23	1.01
1:C:115:PRO:O	1:C:118:ASN:ND2	1.94	1.01
1:B:106:PRO:HG3	1:B:191:TRP:HH2	1.22	1.01
1:A:37:ARG:HH11	1:A:218:PRO:HG3	1.25	1.01
1:B:387:VAL:CG1	1:B:407:LEU:CD2	2.38	1.01
1:A:3:ILE:CG2	1:A:9:VAL:HG21	1.90	1.01
1:A:830:LEU:HD22	1:B:828:ASP:OD2	1.59	1.01
1:A:730:LEU:HD11	1:B:824:GLN:HB2	1.02	1.01
1:A:730:LEU:HD11	1:B:824:GLN:CB	1.91	1.01
1:A:824:GLN:HB2	1:B:730:LEU:HD11	1.02	1.01
1:D:770:ILE:HG23	1:D:773:LYS:HB2	1.43	1.01
1:A:651:LEU:HG	1:A:703:PRO:HG3	1.37	1.01
1:D:797:GLU:O	1:D:801:ILE:CD1	2.09	1.01
1:C:797:GLU:O	1:C:801:ILE:CD1	2.09	1.01
1:A:37:ARG:O	1:A:322:LEU:HD11	1.59	1.01
1:A:828:ASP:OD2	1:B:830:LEU:HD22	1.59	1.00
1:A:824:GLN:CB	1:B:730:LEU:HD11	1.91	1.00
1:C:36:TRP:NE1	1:C:42:ALA:CB	1.95	1.00
1:C:253:TYR:O	1:C:255:ARG:CD	2.07	1.00
1:D:253:TYR:O	1:D:255:ARG:CD	2.07	1.00
1:B:280:ASP:CB	1:C:515:VAL:CG2	2.39	1.00
1:A:7:LEU:HD11	1:A:74:LEU:HD12	1.43	1.00
1:B:37:ARG:O	1:B:322:LEU:HD11	1.59	1.00
1:D:463:GLY:O	1:D:486:TYR:OH	1.79	1.00
1:D:3:ILE:CG2	1:D:9:VAL:HG21	1.90	1.00
1:C:3:ILE:CG2	1:C:9:VAL:HG21	1.90	1.00
1:B:823:LEU:HD11	1:B:839:ALA:HB1	1.43	1.00
1:C:824:GLN:HB2	1:D:730:LEU:HD11	1.01	1.00
1:B:281:GLU:HB3	1:C:515:VAL:HG21	1.42	1.00
1:A:106:PRO:HG3	1:A:191:TRP:HH2	1.22	1.00
1:A:107:ILE:HD11	1:A:196:TYR:HE1	1.23	1.00
1:B:7:LEU:HD11	1:B:74:LEU:HD12	1.44	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:77:ASP:N	1:D:183:ARG:HH12	1.59	1.00
1:C:77:ASP:N	1:C:183:ARG:HH12	1.59	1.00
1:D:37:ARG:NH1	1:D:218:PRO:HD3	1.77	1.00
1:C:37:ARG:NH1	1:C:218:PRO:HD3	1.77	1.00
1:C:387:VAL:CG1	1:C:407:LEU:CD2	2.38	1.00
1:A:898:LEU:HD21	1:A:915:PHE:HZ	1.18	1.00
1:C:463:GLY:O	1:C:486:TYR:OH	1.79	1.00
1:B:959:ILE:CD1	1:B:984:LEU:HD12	1.92	1.00
1:A:959:ILE:CD1	1:A:984:LEU:HD12	1.92	1.00
1:B:830:LEU:HB2	1:B:833:ALA:O	1.61	1.00
1:A:830:LEU:HB2	1:A:833:ALA:O	1.61	1.00
1:B:742:THR:HG21	1:B:760:ARG:HH22	1.20	1.00
1:A:823:LEU:HD11	1:A:839:ALA:HB1	1.43	1.00
1:C:730:LEU:HD11	1:D:824:GLN:HB2	1.01	1.00
1:B:246:MET:HE3	1:B:274:PHE:CE2	1.95	1.00
1:D:7:LEU:HD11	1:D:74:LEU:HD12	1.43	1.00
1:A:281:GLU:HB3	1:D:515:VAL:HG21	1.42	1.00
1:A:589:GLY:HA3	1:A:599:ARG:CA	1.92	1.00
1:C:937:LEU:HD11	1:C:956:GLN:HB3	1.43	1.00
1:D:937:LEU:HD11	1:D:956:GLN:HB3	1.43	1.00
1:C:37:ARG:HH11	1:C:218:PRO:HG3	1.25	1.00
1:D:387:VAL:CG1	1:D:407:LEU:CD2	2.38	1.00
1:A:472:TYR:OH	1:A:497:ASP:OD1	1.77	1.00
1:C:358:GLU:C	1:C:367:MET:HE2	1.79	1.00
1:D:360:HIS:CD2	1:D:361:PRO:CD	2.40	1.00
1:C:7:LEU:HD11	1:C:74:LEU:HD12	1.43	1.00
1:C:589:GLY:HA3	1:C:599:ARG:CA	1.92	1.00
1:B:589:GLY:HA3	1:B:599:ARG:CA	1.91	1.00
1:D:355:ASN:HD22	1:D:568:TRP:HE3	1.06	1.00
1:B:389:CYS:HB3	1:B:394:ASN:ND2	1.77	1.00
1:B:107:ILE:HD11	1:B:196:TYR:HE1	1.23	1.00
1:A:358:GLU:HG3	1:A:367:MET:CE	1.71	1.00
1:D:589:GLY:HA3	1:D:599:ARG:CA	1.92	1.00
1:B:472:TYR:OH	1:B:497:ASP:OD1	1.77	1.00
1:A:389:CYS:HB3	1:A:394:ASN:ND2	1.77	1.00
1:B:898:LEU:HD21	1:B:915:PHE:HZ	1.18	1.00
1:C:824:GLN:CB	1:D:730:LEU:HD11	1.90	1.00
1:C:730:LEU:HD11	1:D:824:GLN:CB	1.90	1.00
1:D:106:PRO:HG3	1:D:191:TRP:HH2	1.22	1.00
1:B:55:ASN:ND2	1:B:211:ASP:CG	2.15	1.00
1:A:742:THR:HG21	1:A:760:ARG:HH22	1.20	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:360:HIS:CD2	1:C:361:PRO:CD	2.40	0.99
1:A:55:ASN:ND2	1:A:211:ASP:CG	2.15	0.99
1:B:655:MET:HE3	1:B:699:ARG:NH1	1.77	0.99
1:B:358:GLU:HG3	1:B:367:MET:CE	1.71	0.99
1:B:958:ASN:OD1	1:B:985:ASN:HB2	1.63	0.99
1:A:958:ASN:OD1	1:A:985:ASN:HB2	1.62	0.99
1:C:828:ASP:OD2	1:D:830:LEU:HD22	1.60	0.99
1:B:77:ASP:N	1:B:183:ARG:HH12	1.59	0.99
1:D:37:ARG:HH11	1:D:218:PRO:HG3	1.25	0.99
1:A:9:VAL:HG11	1:D:9:VAL:CG1	1.92	0.99
1:A:37:ARG:NH1	1:A:218:PRO:HD3	1.77	0.99
1:C:355:ASN:HD22	1:C:568:TRP:HE3	1.06	0.99
1:C:959:ILE:CD1	1:C:984:LEU:HD12	1.92	0.99
1:B:823:LEU:HD11	1:B:839:ALA:HB3	1.02	0.99
1:C:106:PRO:HG3	1:C:191:TRP:HH2	1.22	0.99
1:A:106:PRO:HG3	1:A:191:TRP:CH2	1.95	0.99
1:B:115:PRO:O	1:B:118:ASN:ND2	1.94	0.99
1:B:106:PRO:HG3	1:B:191:TRP:CH2	1.95	0.99
1:B:37:ARG:NH1	1:B:218:PRO:HD3	1.77	0.99
1:D:959:ILE:CD1	1:D:984:LEU:HD12	1.92	0.99
1:C:830:LEU:HD22	1:D:828:ASP:OD2	1.60	0.99
1:B:742:THR:CG2	1:B:760:ARG:HH22	1.65	0.99
1:A:823:LEU:HD11	1:A:839:ALA:HB3	1.02	0.99
1:D:55:ASN:ND2	1:D:211:ASP:CG	2.15	0.99
1:C:55:ASN:ND2	1:C:211:ASP:CG	2.15	0.99
1:A:77:ASP:N	1:A:183:ARG:HH12	1.59	0.99
1:B:866:ILE:O	1:B:1017:GLN:HG3	1.63	0.99
1:A:866:ILE:O	1:A:1017:GLN:HG3	1.63	0.99
1:C:958:ASN:OD1	1:C:985:ASN:HB2	1.63	0.99
1:A:115:PRO:O	1:A:118:ASN:ND2	1.94	0.99
1:C:272:ALA:HB2	1:C:291:LEU:CD2	1.92	0.99
1:B:9:VAL:HG11	1:C:9:VAL:CG1	1.92	0.99
1:D:958:ASN:OD1	1:D:985:ASN:HB2	1.63	0.99
1:C:23:GLN:HG2	1:C:26:ARG:NE	1.76	0.99
1:A:23:GLN:HG2	1:A:26:ARG:NE	1.76	0.99
1:C:167:LEU:HD13	1:C:442:ARG:HB3	1.41	0.99
1:C:37:ARG:HH12	1:C:218:PRO:HD3	1.27	0.99
1:A:430:PRO:HG3	1:D:445:GLN:NE2	1.77	0.99
1:A:463:GLY:O	1:A:486:TYR:OH	1.79	0.99
1:D:272:ALA:HB2	1:D:291:LEU:CD2	1.92	0.99
1:B:23:GLN:HG2	1:B:26:ARG:NE	1.76	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:937:LEU:HD11	1:A:956:GLN:HB3	1.43	0.99
1:C:427:THR:HA	1:C:436:MET:HE1	1.31	0.99
1:D:742:THR:HG23	1:D:760:ARG:NH2	1.73	0.99
1:B:430:PRO:HG3	1:C:445:GLN:NE2	1.77	0.99
1:D:23:GLN:HG2	1:D:26:ARG:NE	1.76	0.98
1:B:797:GLU:O	1:B:801:ILE:CD1	2.09	0.98
1:C:389:CYS:CB	1:C:394:ASN:ND2	2.25	0.98
1:D:898:LEU:HD21	1:D:915:PHE:HZ	1.18	0.98
1:D:167:LEU:HD13	1:D:442:ARG:HB3	1.41	0.98
1:B:937:LEU:HD11	1:B:956:GLN:HB3	1.43	0.98
1:A:797:GLU:O	1:A:801:ILE:CD1	2.09	0.98
1:D:37:ARG:HH12	1:D:218:PRO:HD3	1.27	0.98
1:A:705:ALA:HB1	1:A:709:SER:O	1.63	0.98
1:B:463:GLY:O	1:B:486:TYR:OH	1.79	0.98
1:D:766:SER:O	1:D:776:LEU:HD11	1.63	0.98
1:B:22:THR:HG21	1:B:438:GLU:HG3	1.45	0.98
1:D:389:CYS:CB	1:D:394:ASN:ND2	2.26	0.98
1:C:742:THR:HG23	1:C:760:ARG:NH2	1.73	0.98
1:C:766:SER:O	1:C:776:LEU:HD11	1.63	0.98
1:A:766:SER:O	1:A:776:LEU:HD11	1.63	0.98
1:A:349:LEU:CD2	1:A:351:ILE:HD11	1.89	0.98
1:D:651:LEU:HG	1:D:703:PRO:HG3	1.37	0.98
1:B:768:MET:HE1	1:B:1020:TRP:CZ3	1.95	0.98
1:A:768:MET:HE3	1:A:1020:TRP:CZ3	1.95	0.98
1:B:705:ALA:HB1	1:B:709:SER:O	1.63	0.98
1:D:691:ALA:HA	1:D:725:ASN:HD22	1.28	0.98
1:D:390:SER:CA	1:D:391:HIS:HD1	1.76	0.98
1:A:22:THR:HG21	1:A:438:GLU:HG3	1.45	0.98
1:B:440:VAL:HG11	1:B:471:LEU:HD12	1.43	0.98
1:D:830:LEU:HB2	1:D:833:ALA:O	1.61	0.98
1:C:830:LEU:HB2	1:C:833:ALA:O	1.61	0.98
1:B:766:SER:O	1:B:776:LEU:HD11	1.63	0.98
1:A:390:SER:CA	1:A:391:HIS:HD1	1.76	0.98
1:A:515:VAL:HG21	1:D:281:GLU:HB3	1.40	0.98
1:B:390:SER:CA	1:B:391:HIS:HD1	1.76	0.98
1:A:606:LEU:O	1:A:614:HIS:HB2	1.64	0.98
1:A:445:GLN:NE2	1:D:430:PRO:HG3	1.77	0.98
1:A:770:ILE:HG23	1:A:773:LYS:HB2	1.43	0.98
1:B:349:LEU:CD2	1:B:351:ILE:HD11	1.89	0.98
1:B:272:ALA:HB2	1:B:291:LEU:CD2	1.92	0.98
1:A:281:GLU:OE2	1:D:423:MET:HE1	1.63	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:390:SER:CA	1:C:391:HIS:HD1	1.76	0.98
1:B:606:LEU:O	1:B:614:HIS:HB2	1.64	0.98
1:A:413:ALA:HB3	1:A:458:LEU:O	1.64	0.98
1:C:389:CYS:HB3	1:C:394:ASN:ND2	1.77	0.98
1:D:389:CYS:HB3	1:D:394:ASN:ND2	1.77	0.98
1:B:747:PHE:HE1	1:B:760:ARG:NE	1.49	0.98
1:A:272:ALA:HB2	1:A:291:LEU:CD2	1.92	0.98
1:C:59:ARG:HH12	1:C:81:ALA:C	1.66	0.98
1:A:59:ARG:HH12	1:A:81:ALA:C	1.66	0.98
1:B:59:ARG:HH12	1:B:81:ALA:C	1.66	0.98
1:B:413:ALA:HB3	1:B:458:LEU:O	1.64	0.98
1:B:445:GLN:NE2	1:C:430:PRO:HG3	1.77	0.98
1:C:898:LEU:HD21	1:C:915:PHE:HZ	1.18	0.98
1:A:742:THR:HG23	1:A:760:ARG:NH2	1.73	0.98
1:B:770:ILE:HG23	1:B:773:LYS:HB2	1.43	0.98
1:C:651:LEU:HG	1:C:703:PRO:HG3	1.37	0.98
1:A:440:VAL:HG11	1:A:471:LEU:HD12	1.43	0.98
1:A:747:PHE:HE1	1:A:760:ARG:NE	1.49	0.98
1:D:824:GLN:HE21	1:D:825:CYS:C	1.61	0.98
1:C:691:ALA:HA	1:C:725:ASN:HD22	1.28	0.98
1:D:59:ARG:HH12	1:D:81:ALA:C	1.66	0.98
1:C:7:LEU:HD11	1:C:74:LEU:CD1	1.93	0.98
1:D:358:GLU:CG	1:D:367:MET:HE2	1.74	0.98
1:D:606:LEU:O	1:D:614:HIS:HB2	1.64	0.98
1:C:606:LEU:O	1:C:614:HIS:HB2	1.64	0.98
1:D:440:VAL:HG11	1:D:471:LEU:HD12	1.43	0.98
1:A:515:VAL:CG2	1:D:280:ASP:CB	2.38	0.97
1:B:7:LEU:HD11	1:B:74:LEU:CD1	1.93	0.97
1:D:63:PHE:CE2	1:D:70:PRO:HD2	1.99	0.97
1:B:764:PHE:CE1	1:B:781:ARG:HG3	1.99	0.97
1:D:7:LEU:HD11	1:D:74:LEU:CD1	1.93	0.97
1:C:91:GLN:HE22	1:C:96:ASP:HB3	1.25	0.97
1:B:515:VAL:HG21	1:C:281:GLU:HB3	1.40	0.97
1:C:63:PHE:CE2	1:C:70:PRO:HD2	1.99	0.97
1:A:301:TRP:CD1	1:A:306:PRO:O	2.17	0.97
1:B:301:TRP:CD1	1:B:306:PRO:O	2.17	0.97
1:A:764:PHE:CE1	1:A:781:ARG:HG3	1.99	0.97
1:C:824:GLN:HE21	1:C:825:CYS:C	1.61	0.97
1:A:7:LEU:HD11	1:A:74:LEU:CD1	1.93	0.97
1:A:589:GLY:HA3	1:A:599:ARG:HA	0.98	0.97
1:C:440:VAL:HG11	1:C:471:LEU:HD12	1.43	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:515:VAL:CG2	1:C:280:ASP:CB	2.38	0.97
1:B:589:GLY:HA3	1:B:599:ARG:HA	0.98	0.97
1:D:91:GLN:HE22	1:D:96:ASP:HB3	1.25	0.97
1:A:358:GLU:HG2	1:A:367:MET:HE2	0.98	0.97
1:B:742:THR:HG23	1:B:760:ARG:NH2	1.73	0.97
1:B:9:VAL:CG1	1:C:9:VAL:HG11	1.92	0.97
1:A:758:PHE:CE1	1:A:765:LEU:CD2	2.48	0.97
1:B:758:PHE:CE1	1:B:765:LEU:CD2	2.48	0.97
1:D:91:GLN:HG3	1:D:190:ARG:HH22	1.26	0.97
1:D:866:ILE:O	1:D:1017:GLN:HG3	1.63	0.97
1:C:742:THR:HG21	1:C:760:ARG:HH22	1.20	0.97
1:C:764:PHE:HE2	1:C:840:HIS:HD1	1.00	0.97
1:C:106:PRO:HG3	1:C:191:TRP:CH2	1.95	0.97
1:C:91:GLN:HG3	1:C:190:ARG:HH22	1.26	0.97
1:C:866:ILE:O	1:C:1017:GLN:HG3	1.63	0.97
1:A:9:VAL:CG1	1:D:9:VAL:HG11	1.92	0.97
1:D:764:PHE:CE1	1:D:781:ARG:HG3	1.99	0.97
1:A:937:LEU:HD12	1:A:938:ARG:H	1.28	0.97
1:C:619:GLU:HG2	1:C:909:ARG:HG3	1.45	0.97
1:B:626:PHE:HB3	1:B:641:GLU:CB	1.95	0.97
1:A:626:PHE:HB3	1:A:641:GLU:CB	1.95	0.97
1:D:742:THR:HG21	1:D:760:ARG:HH22	1.20	0.97
1:D:589:GLY:HA3	1:D:599:ARG:HA	0.98	0.97
1:B:937:LEU:HD12	1:B:938:ARG:H	1.28	0.97
1:D:619:GLU:HG2	1:D:909:ARG:HG3	1.45	0.97
1:D:301:TRP:CD1	1:D:306:PRO:O	2.17	0.97
1:D:655:MET:HE3	1:D:699:ARG:NH1	1.79	0.97
1:C:764:PHE:CE1	1:C:781:ARG:HG3	1.99	0.96
1:C:589:GLY:HA3	1:C:599:ARG:HA	0.98	0.96
1:D:390:SER:C	1:D:391:HIS:HD1	1.68	0.96
1:A:651:LEU:CD1	1:A:703:PRO:CG	2.43	0.96
1:C:301:TRP:CD1	1:C:306:PRO:O	2.17	0.96
1:A:548:GLY:N	1:A:908:ASP:OD1	1.98	0.96
1:D:764:PHE:HE2	1:D:840:HIS:HD1	1.00	0.96
1:D:106:PRO:HG3	1:D:191:TRP:CH2	1.95	0.96
1:B:651:LEU:CD1	1:B:703:PRO:CG	2.43	0.96
1:B:548:GLY:N	1:B:908:ASP:OD1	1.98	0.96
1:D:413:ALA:HB3	1:D:458:LEU:O	1.64	0.96
1:C:390:SER:C	1:C:391:HIS:HD1	1.69	0.96
1:C:413:ALA:HB3	1:C:458:LEU:O	1.64	0.96
1:A:3:ILE:HG22	1:A:9:VAL:CG2	1.96	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3:ILE:HG22	1:D:9:VAL:CG2	1.96	0.96
1:C:3:ILE:HG22	1:C:9:VAL:CG2	1.96	0.96
1:B:63:PHE:CE2	1:B:70:PRO:HD2	1.99	0.96
1:A:427:THR:CA	1:A:436:MET:HE3	1.76	0.96
1:D:111:PRO:CA	1:D:196:TYR:CE2	2.48	0.96
1:D:626:PHE:HB3	1:D:641:GLU:CB	1.95	0.96
1:C:626:PHE:HB3	1:C:641:GLU:CB	1.94	0.96
1:B:3:ILE:HG22	1:B:9:VAL:CG2	1.96	0.96
1:A:63:PHE:CE2	1:A:70:PRO:HD2	1.99	0.96
1:C:111:PRO:CA	1:C:196:TYR:CE2	2.48	0.96
1:C:37:ARG:NH1	1:C:218:PRO:CD	2.28	0.96
1:D:705:ALA:HB1	1:D:709:SER:O	1.63	0.96
1:A:36:TRP:CE2	1:A:42:ALA:HA	2.01	0.96
1:D:77:ASP:N	1:D:183:ARG:NH1	2.14	0.96
1:C:77:ASP:N	1:C:183:ARG:NH1	2.14	0.96
1:C:548:GLY:N	1:C:908:ASP:OD1	1.98	0.96
1:C:626:PHE:HB3	1:C:641:GLU:HB3	0.98	0.96
1:B:389:CYS:CB	1:B:394:ASN:ND2	2.25	0.96
1:A:389:CYS:CB	1:A:394:ASN:ND2	2.26	0.96
1:C:758:PHE:CE1	1:C:765:LEU:CD2	2.48	0.96
1:B:36:TRP:CE2	1:B:42:ALA:HA	2.01	0.96
1:C:22:THR:HG21	1:C:438:GLU:HG3	1.45	0.96
1:B:102:ASN:OD1	1:B:201:ASP:OD2	1.83	0.96
1:A:390:SER:C	1:A:391:HIS:HD1	1.68	0.96
1:D:22:THR:HG21	1:D:438:GLU:HG3	1.45	0.96
1:A:102:ASN:OD1	1:A:201:ASP:OD2	1.83	0.96
1:D:37:ARG:NH1	1:D:218:PRO:CD	2.28	0.96
1:C:705:ALA:HB1	1:C:709:SER:O	1.63	0.96
1:D:548:GLY:N	1:D:908:ASP:OD1	1.98	0.96
1:D:626:PHE:HB3	1:D:641:GLU:HB3	0.98	0.96
1:C:758:PHE:CE1	1:C:765:LEU:HB3	2.01	0.95
1:D:758:PHE:CE1	1:D:765:LEU:HB3	2.01	0.95
1:D:498:ILE:HG22	1:D:532:PRO:HG2	1.46	0.95
1:D:758:PHE:CE1	1:D:765:LEU:CD2	2.48	0.95
1:B:390:SER:C	1:B:391:HIS:HD1	1.69	0.95
1:D:937:LEU:HD12	1:D:938:ARG:H	1.28	0.95
1:A:764:PHE:CE1	1:A:781:ARG:HG2	2.01	0.95
1:B:764:PHE:CE1	1:B:781:ARG:HG2	2.01	0.95
1:A:229:THR:HG21	1:A:231:PHE:HZ	1.17	0.95
1:B:200:GLN:O	1:B:202:MET:CE	2.15	0.95
1:C:769:TRP:HH2	1:C:774:LYS:HG3	1.17	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:685:LEU:CD1	1:A:722:LEU:HD11	1.96	0.95
1:D:229:THR:HG21	1:D:231:PHE:HZ	1.17	0.95
1:A:230:ARG:HH12	1:A:241:GLU:CD	1.70	0.95
1:B:230:ARG:HH12	1:B:241:GLU:CD	1.70	0.95
1:A:200:GLN:O	1:A:202:MET:CE	2.15	0.95
1:B:685:LEU:CD1	1:B:722:LEU:HD11	1.96	0.95
1:C:764:PHE:CE1	1:C:781:ARG:HG2	2.01	0.95
1:D:769:TRP:HH2	1:D:774:LYS:HG3	1.17	0.95
1:C:937:LEU:HD12	1:C:938:ARG:H	1.28	0.95
1:C:685:LEU:CD1	1:C:722:LEU:HD11	1.96	0.95
1:C:498:ILE:HG22	1:C:532:PRO:HG2	1.46	0.95
1:D:764:PHE:CE1	1:D:781:ARG:HG2	2.01	0.95
1:A:111:PRO:CA	1:A:196:TYR:CE2	2.48	0.95
1:B:111:PRO:CA	1:B:196:TYR:CE2	2.48	0.95
1:D:801:ILE:HG23	1:D:808:GLU:CD	1.86	0.95
1:C:801:ILE:HG23	1:C:808:GLU:CD	1.86	0.95
1:C:322:LEU:O	1:C:322:LEU:HD12	1.66	0.95
1:D:685:LEU:CD1	1:D:722:LEU:HD11	1.96	0.95
1:A:9:VAL:HG13	1:D:9:VAL:HG11	1.45	0.95
1:A:833:ALA:CB	1:A:858:ILE:O	2.14	0.95
1:D:36:TRP:CE2	1:D:42:ALA:HA	2.01	0.95
1:A:73:TRP:CH2	1:A:122:CYS:CB	2.49	0.95
1:A:619:GLU:HG2	1:A:909:ARG:HG3	1.45	0.95
1:D:322:LEU:O	1:D:322:LEU:HD12	1.66	0.95
1:B:631:LEU:HD12	1:B:635:THR:O	1.66	0.95
1:B:229:THR:HG21	1:B:231:PHE:HZ	1.17	0.95
1:B:73:TRP:CH2	1:B:122:CYS:CB	2.49	0.95
1:C:73:TRP:CZ2	1:C:122:CYS:HB3	2.02	0.95
1:A:9:VAL:HG11	1:D:9:VAL:HG13	1.45	0.95
1:B:9:VAL:HG13	1:C:9:VAL:HG11	1.45	0.95
1:B:833:ALA:CB	1:B:858:ILE:O	2.14	0.95
1:C:36:TRP:CE2	1:C:42:ALA:HA	2.01	0.95
1:C:229:THR:HG21	1:C:231:PHE:HZ	1.17	0.95
1:D:73:TRP:CZ2	1:D:122:CYS:HB3	2.02	0.95
1:B:619:GLU:HG2	1:B:909:ARG:HG3	1.44	0.95
1:C:762:SER:O	1:C:822:LEU:HD11	1.67	0.95
1:C:200:GLN:O	1:C:202:MET:CE	2.15	0.95
1:B:890:GLN:HE22	1:B:947:GLY:HA3	1.31	0.95
1:A:890:GLN:HE22	1:A:947:GLY:HA3	1.31	0.95
1:A:631:LEU:HD12	1:A:635:THR:O	1.66	0.95
1:D:762:SER:O	1:D:822:LEU:HD11	1.67	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:651:LEU:CD1	1:C:703:PRO:CG	2.43	0.94
1:D:197:LEU:CD1	1:D:415:ILE:HG23	1.96	0.94
1:C:102:ASN:OD1	1:C:201:ASP:OD2	1.83	0.94
1:D:631:LEU:HD12	1:D:635:THR:O	1.66	0.94
1:D:833:ALA:CB	1:D:858:ILE:O	2.14	0.94
1:D:747:PHE:HE2	1:D:827:ALA:HB3	1.32	0.94
1:A:280:ASP:HB2	1:D:515:VAL:HG23	1.38	0.94
1:D:200:GLN:O	1:D:202:MET:CE	2.15	0.94
1:D:102:ASN:OD1	1:D:201:ASP:OD2	1.83	0.94
1:A:937:LEU:HD12	1:A:938:ARG:N	1.82	0.94
1:C:631:LEU:HD12	1:C:635:THR:O	1.66	0.94
1:C:747:PHE:HE2	1:C:827:ALA:HB3	1.32	0.94
1:C:833:ALA:CB	1:C:858:ILE:O	2.14	0.94
1:B:824:GLN:HE21	1:B:825:CYS:CA	1.73	0.94
1:C:197:LEU:CD1	1:C:415:ILE:HG23	1.96	0.94
1:A:73:TRP:CZ2	1:A:122:CYS:HB3	2.02	0.94
1:B:937:LEU:HD12	1:B:938:ARG:N	1.82	0.94
1:A:626:PHE:HB3	1:A:641:GLU:HB3	0.98	0.94
1:B:9:VAL:HG11	1:C:9:VAL:HG13	1.45	0.94
1:C:742:THR:CG2	1:C:760:ARG:HH22	1.65	0.94
1:B:758:PHE:CE1	1:B:765:LEU:HB3	2.01	0.94
1:A:824:GLN:HE21	1:A:825:CYS:CA	1.73	0.94
1:D:651:LEU:CD1	1:D:703:PRO:CG	2.43	0.94
1:B:73:TRP:CZ2	1:B:122:CYS:HB3	2.02	0.94
1:B:77:ASP:N	1:B:183:ARG:NH1	2.14	0.94
1:B:626:PHE:HB3	1:B:641:GLU:HB3	0.98	0.94
1:A:758:PHE:CE1	1:A:765:LEU:HB3	2.01	0.94
1:C:824:GLN:HE21	1:C:825:CYS:CA	1.73	0.94
1:B:769:TRP:CZ2	1:B:774:LYS:HG2	2.03	0.94
1:A:769:TRP:CZ2	1:A:774:LYS:HG2	2.03	0.94
1:A:77:ASP:N	1:A:183:ARG:NH1	2.14	0.94
1:A:37:ARG:NH1	1:A:218:PRO:CD	2.28	0.94
1:C:230:ARG:HH12	1:C:241:GLU:CD	1.70	0.94
1:A:835:LEU:C	1:A:836:ILE:HD13	1.87	0.94
1:B:835:LEU:C	1:B:836:ILE:HD13	1.87	0.94
1:D:73:TRP:CH2	1:D:122:CYS:CB	2.49	0.94
1:C:73:TRP:CH2	1:C:122:CYS:CB	2.49	0.94
1:B:801:ILE:HG23	1:B:808:GLU:CD	1.86	0.94
1:B:37:ARG:NH1	1:B:218:PRO:CD	2.28	0.94
1:A:801:ILE:HG23	1:A:808:GLU:CD	1.86	0.94
1:D:230:ARG:HH12	1:D:241:GLU:CD	1.70	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:835:LEU:C	1:C:836:ILE:HD13	1.87	0.94
1:B:358:GLU:CA	1:B:367:MET:HE1	1.98	0.94
1:B:498:ILE:HG22	1:B:532:PRO:HG2	1.46	0.94
1:D:835:LEU:C	1:D:836:ILE:HD13	1.87	0.94
1:D:742:THR:CG2	1:D:760:ARG:HH22	1.65	0.94
1:D:824:GLN:HE21	1:D:825:CYS:CA	1.73	0.94
1:B:30:HIS:CD2	1:B:33:PHE:CE1	2.56	0.94
1:A:30:HIS:CD2	1:A:33:PHE:CE1	2.56	0.94
1:A:197:LEU:CD1	1:A:415:ILE:HG23	1.96	0.94
1:B:197:LEU:CD1	1:B:415:ILE:HG23	1.96	0.94
1:D:542:MET:C	1:D:790:ASP:OD2	2.05	0.94
1:A:322:LEU:O	1:A:322:LEU:HD12	1.66	0.94
1:C:542:MET:C	1:C:790:ASP:OD2	2.05	0.94
1:B:322:LEU:O	1:B:322:LEU:HD12	1.66	0.94
1:A:498:ILE:HG22	1:A:532:PRO:HG2	1.46	0.94
1:A:524:LEU:CD1	1:A:562:LEU:CD1	2.46	0.94
1:B:524:LEU:CD1	1:B:562:LEU:CD1	2.46	0.94
1:B:474:TRP:CZ3	1:B:478:VAL:HG21	2.03	0.94
1:A:474:TRP:CZ3	1:A:478:VAL:HG21	2.03	0.94
1:B:280:ASP:HB2	1:C:515:VAL:HG23	1.38	0.94
1:D:317:THR:O	1:D:320:GLY:HA3	1.67	0.94
1:A:762:SER:O	1:A:822:LEU:HD11	1.67	0.94
1:B:360:HIS:CD2	1:B:361:PRO:CD	2.40	0.94
1:C:111:PRO:HB3	1:C:196:TYR:HD2	1.29	0.94
1:A:358:GLU:CA	1:A:367:MET:HE1	1.98	0.94
1:D:474:TRP:CZ3	1:D:478:VAL:HG21	2.03	0.94
1:C:337:ILE:HD11	1:C:483:PRO:HB3	1.50	0.94
1:B:542:MET:C	1:B:790:ASP:OD2	2.05	0.93
1:A:542:MET:C	1:A:790:ASP:OD2	2.05	0.93
1:D:440:VAL:CB	1:D:471:LEU:HD11	1.98	0.93
1:B:317:THR:O	1:B:320:GLY:HA3	1.68	0.93
1:B:762:SER:O	1:B:822:LEU:HD11	1.67	0.93
1:C:890:GLN:HE22	1:C:947:GLY:HA3	1.31	0.93
1:C:440:VAL:CB	1:C:471:LEU:HD11	1.98	0.93
1:C:474:TRP:CZ3	1:C:478:VAL:HG21	2.03	0.93
1:C:317:THR:O	1:C:320:GLY:HA3	1.68	0.93
1:D:337:ILE:HD11	1:D:483:PRO:HB3	1.50	0.93
1:D:768:MET:HE1	1:D:1020:TRP:CH2	2.04	0.93
1:D:474:TRP:CE2	1:D:478:VAL:HG11	2.03	0.93
1:A:317:THR:O	1:A:320:GLY:HA3	1.68	0.93
1:C:427:THR:HG22	1:C:436:MET:HE2	1.49	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:111:PRO:HB3	1:D:196:TYR:HD2	1.29	0.93
1:C:768:MET:HE1	1:C:1020:TRP:CH2	2.04	0.93
1:C:474:TRP:CE2	1:C:478:VAL:HG11	2.03	0.93
1:C:952:ARG:HH21	1:C:952:ARG:HG3	1.34	0.93
1:D:952:ARG:HG3	1:D:952:ARG:HH21	1.34	0.93
1:A:360:HIS:CD2	1:A:361:PRO:CD	2.40	0.93
1:C:691:ALA:HB2	1:C:727:SER:HB2	0.94	0.93
1:D:358:GLU:CA	1:D:367:MET:HE1	1.98	0.93
1:A:460:ASN:ND2	1:A:461:GLU:HG3	1.83	0.93
1:B:500:CYS:HB2	1:B:536:CYS:SG	2.08	0.93
1:C:769:TRP:CZ2	1:C:774:LYS:HG2	2.03	0.93
1:C:500:CYS:HB2	1:C:536:CYS:SG	2.08	0.93
1:B:427:THR:CA	1:B:436:MET:HE3	1.81	0.93
1:A:500:CYS:HB2	1:A:536:CYS:SG	2.08	0.93
1:D:890:GLN:HE22	1:D:947:GLY:HA3	1.31	0.93
1:D:500:CYS:HB2	1:D:536:CYS:SG	2.08	0.93
1:A:337:ILE:HD11	1:A:483:PRO:HB3	1.50	0.93
1:D:691:ALA:HB2	1:D:727:SER:HB2	0.94	0.93
1:D:460:ASN:ND2	1:D:461:GLU:HG3	1.83	0.93
1:B:460:ASN:ND2	1:B:461:GLU:HG3	1.83	0.93
1:D:769:TRP:CZ2	1:D:774:LYS:HG2	2.03	0.93
1:A:141:ILE:HD13	1:A:143:PHE:CE1	2.04	0.93
1:C:359:HIS:N	1:C:367:MET:HE1	1.82	0.93
1:B:691:ALA:HA	1:B:725:ASN:HD22	1.28	0.93
1:A:691:ALA:HA	1:A:725:ASN:HD22	1.28	0.93
1:B:355:ASN:HD22	1:B:568:TRP:HE3	1.06	0.93
1:D:937:LEU:HD12	1:D:938:ARG:N	1.82	0.93
1:B:141:ILE:HD13	1:B:143:PHE:CE1	2.04	0.93
1:B:337:ILE:HD11	1:B:483:PRO:HB3	1.50	0.93
1:B:33:PHE:HB3	1:B:326:GLU:CD	1.90	0.93
1:C:657:ALA:HB2	1:C:662:PRO:HB3	1.51	0.93
1:C:460:ASN:ND2	1:C:461:GLU:HG3	1.83	0.93
1:B:769:TRP:HH2	1:B:774:LYS:HG3	1.17	0.93
1:D:317:THR:OG1	1:D:321:THR:N	2.02	0.93
1:A:33:PHE:HB3	1:A:326:GLU:CD	1.90	0.93
1:D:657:ALA:HB2	1:D:662:PRO:HB3	1.51	0.93
1:A:691:ALA:HB2	1:A:727:SER:HB2	0.94	0.93
1:C:90:TRP:NE1	1:C:91:GLN:NE2	2.16	0.93
1:D:802:ASP:O	1:D:808:GLU:HG3	1.69	0.93
1:C:802:ASP:O	1:C:808:GLU:HG3	1.69	0.93
1:B:802:ASP:O	1:B:808:GLU:HG3	1.69	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:802:ASP:O	1:A:808:GLU:HG3	1.69	0.93
1:A:355:ASN:HD22	1:A:568:TRP:HE3	1.06	0.93
1:B:317:THR:OG1	1:B:321:THR:N	2.02	0.93
1:C:317:THR:OG1	1:C:321:THR:N	2.02	0.93
1:A:317:THR:OG1	1:A:321:THR:N	2.02	0.93
1:D:141:ILE:HD13	1:D:143:PHE:CE1	2.04	0.93
1:C:141:ILE:HD13	1:C:143:PHE:CE1	2.04	0.93
1:D:90:TRP:NE1	1:D:91:GLN:NE2	2.16	0.92
1:B:747:PHE:HE2	1:B:827:ALA:HB3	1.32	0.92
1:B:691:ALA:HB2	1:B:727:SER:HB2	0.94	0.92
1:A:657:ALA:HB2	1:A:662:PRO:HB3	1.51	0.92
1:C:937:LEU:HD12	1:C:938:ARG:N	1.82	0.92
1:A:440:VAL:CB	1:A:471:LEU:CD1	2.48	0.92
1:B:440:VAL:CB	1:B:471:LEU:CD1	2.48	0.92
1:C:524:LEU:CD1	1:C:562:LEU:CD1	2.46	0.92
1:C:874:SER:HG	1:D:724:GLU:HB2	1.28	0.92
1:D:524:LEU:CD1	1:D:562:LEU:CD1	2.46	0.92
1:C:837:THR:HG23	1:C:855:THR:HG22	1.51	0.92
1:A:655:MET:HE3	1:A:699:ARG:NH1	1.84	0.92
1:A:747:PHE:HE2	1:A:827:ALA:HB3	1.32	0.92
1:B:657:ALA:HB2	1:B:662:PRO:HB3	1.51	0.92
1:D:837:THR:HG23	1:D:855:THR:HG22	1.51	0.92
1:D:159:VAL:CG2	1:D:176:PHE:CD1	2.49	0.92
1:D:10:VAL:HG11	1:D:153:TRP:HZ2	1.35	0.92
1:C:10:VAL:HG11	1:C:153:TRP:HZ2	1.35	0.92
1:A:769:TRP:HH2	1:A:774:LYS:HG3	1.17	0.92
1:D:343:LEU:CD2	1:D:347:LYS:C	2.38	0.92
1:C:724:GLU:HB2	1:D:874:SER:HG	1.30	0.92
1:B:418:HIS:ND1	1:B:461:GLU:OE1	2.02	0.92
1:C:389:CYS:SG	1:C:394:ASN:ND2	2.42	0.92
1:B:389:CYS:SG	1:B:394:ASN:ND2	2.42	0.92
1:A:389:CYS:SG	1:A:394:ASN:ND2	2.42	0.92
1:C:343:LEU:CD2	1:C:347:LYS:C	2.38	0.92
1:C:159:VAL:CG2	1:C:176:PHE:CD1	2.49	0.92
1:B:742:THR:CG2	1:B:760:ARG:HH21	1.81	0.92
1:C:349:LEU:CD2	1:C:351:ILE:HD11	1.90	0.92
1:D:89:ASN:HD21	1:D:365:GLN:HB2	0.77	0.92
1:C:89:ASN:HD21	1:C:365:GLN:HB2	0.77	0.92
1:A:440:VAL:CB	1:A:471:LEU:HD11	1.98	0.92
1:B:440:VAL:CB	1:B:471:LEU:HD11	1.98	0.92
1:A:837:THR:HG23	1:A:855:THR:HG22	1.51	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:418:HIS:ND1	1:A:461:GLU:OE1	2.02	0.92
1:D:41:GLU:HA	1:D:44:THR:OG1	1.69	0.92
1:C:874:SER:OG	1:D:724:GLU:CB	2.17	0.92
1:C:724:GLU:CB	1:D:874:SER:OG	2.17	0.92
1:B:10:VAL:HG11	1:B:153:TRP:HZ2	1.35	0.92
1:D:389:CYS:SG	1:D:394:ASN:ND2	2.42	0.92
1:B:837:THR:HG23	1:B:855:THR:HG22	1.51	0.92
1:A:742:THR:CG2	1:A:760:ARG:HH21	1.81	0.92
1:D:823:LEU:CD2	1:D:839:ALA:HB1	1.99	0.92
1:A:10:VAL:HG11	1:A:153:TRP:HZ2	1.35	0.92
1:A:91:GLN:HG3	1:A:190:ARG:HH22	1.26	0.92
1:B:939:CYS:SG	1:B:956:GLN:CG	2.58	0.92
1:A:939:CYS:SG	1:A:956:GLN:CG	2.58	0.92
1:C:41:GLU:HA	1:C:44:THR:OG1	1.69	0.92
1:B:333:ARG:HH11	1:B:333:ARG:HG2	1.34	0.92
1:C:33:PHE:HB3	1:C:326:GLU:CD	1.90	0.91
1:C:823:LEU:CD2	1:C:839:ALA:HB1	1.99	0.91
1:A:90:TRP:NE1	1:A:91:GLN:NE2	2.16	0.91
1:D:349:LEU:CD2	1:D:351:ILE:HD11	1.90	0.91
1:D:33:PHE:HB3	1:D:326:GLU:CD	1.90	0.91
1:A:723:ALA:HB1	1:B:875:ASP:CG	1.91	0.91
1:A:111:PRO:CD	1:A:196:TYR:HE2	1.83	0.91
1:A:634:GLN:OE1	1:A:684:GLU:OE1	1.88	0.91
1:C:634:GLN:OE1	1:C:684:GLU:OE1	1.88	0.91
1:A:875:ASP:CG	1:B:723:ALA:HB1	1.91	0.91
1:A:823:LEU:CD2	1:A:839:ALA:HB1	1.99	0.91
1:B:111:PRO:CD	1:B:196:TYR:HE2	1.83	0.91
1:C:891:VAL:HG13	1:C:961:ARG:HH21	1.34	0.91
1:B:634:GLN:OE1	1:B:684:GLU:OE1	1.88	0.91
1:D:634:GLN:OE1	1:D:684:GLU:OE1	1.88	0.91
1:A:474:TRP:CE2	1:A:478:VAL:HG11	2.03	0.91
1:B:343:LEU:CD2	1:B:347:LYS:C	2.38	0.91
1:A:333:ARG:HH11	1:A:333:ARG:HG2	1.34	0.91
1:C:427:THR:HG22	1:C:436:MET:HE1	1.34	0.91
1:A:159:VAL:CG2	1:A:176:PHE:HE1	1.73	0.91
1:A:815:HIS:HE1	1:A:850:PHE:CZ	1.66	0.91
1:B:823:LEU:CD2	1:B:839:ALA:HB1	1.99	0.91
1:C:111:PRO:CD	1:C:196:TYR:HE2	1.83	0.91
1:B:90:TRP:NE1	1:B:91:GLN:NE2	2.16	0.91
1:A:37:ARG:HH12	1:A:218:PRO:HD3	1.27	0.91
1:B:474:TRP:CE2	1:B:478:VAL:HG11	2.03	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:343:LEU:CD2	1:A:347:LYS:C	2.38	0.91
1:D:333:ARG:HH11	1:D:333:ARG:HG2	1.34	0.91
1:D:276:GLY:C	1:D:277:GLU:OE1	2.08	0.91
1:C:759:ASN:ND2	1:C:762:SER:HB3	1.86	0.91
1:D:759:ASN:ND2	1:D:762:SER:HB3	1.86	0.91
1:D:30:HIS:CD2	1:D:33:PHE:CE1	2.56	0.91
1:D:111:PRO:CD	1:D:196:TYR:HE2	1.83	0.91
1:B:281:GLU:OE2	1:C:423:MET:CE	2.19	0.91
1:A:89:ASN:HD21	1:A:365:GLN:HB2	0.77	0.91
1:B:91:GLN:HG3	1:B:190:ARG:HH22	1.26	0.91
1:B:891:VAL:HG13	1:B:961:ARG:HH21	1.34	0.91
1:D:891:VAL:HG13	1:D:961:ARG:HH21	1.34	0.91
1:B:952:ARG:HG3	1:B:952:ARG:HH21	1.34	0.91
1:C:256:VAL:HG21	1:C:274:PHE:HE1	1.36	0.91
1:A:874:SER:OG	1:B:724:GLU:CB	2.17	0.91
1:B:37:ARG:HH12	1:B:218:PRO:HD3	1.27	0.91
1:C:655:MET:HE3	1:C:699:ARG:NH1	1.86	0.91
1:C:276:GLY:C	1:C:277:GLU:OE1	2.08	0.91
1:C:30:HIS:CD2	1:C:33:PHE:CE1	2.56	0.91
1:D:256:VAL:HG21	1:D:274:PHE:HE1	1.35	0.91
1:A:724:GLU:CB	1:B:874:SER:OG	2.17	0.91
1:C:723:ALA:HB1	1:D:875:ASP:CG	1.90	0.91
1:C:875:ASP:CG	1:D:723:ALA:HB1	1.90	0.91
1:A:173:LEU:HB3	1:A:177:LEU:HD21	1.50	0.91
1:B:276:GLY:C	1:B:277:GLU:OE1	2.08	0.91
1:C:333:ARG:HH11	1:C:333:ARG:HG2	1.34	0.91
1:A:891:VAL:HG13	1:A:961:ARG:HH21	1.34	0.91
1:B:317:THR:HG1	1:B:321:THR:N	1.68	0.91
1:A:952:ARG:HH21	1:A:952:ARG:HG3	1.34	0.91
1:B:159:VAL:CG2	1:B:176:PHE:HE1	1.73	0.91
1:B:353:GLY:O	1:B:566:PHE:HA	1.70	0.91
1:A:281:GLU:OE2	1:D:423:MET:CE	2.19	0.91
1:C:90:TRP:HE1	1:C:91:GLN:HE21	0.91	0.91
1:B:89:ASN:HD21	1:B:365:GLN:HB2	0.77	0.91
1:A:358:GLU:HG3	1:A:367:MET:HE3	0.91	0.91
1:D:440:VAL:CB	1:D:471:LEU:CD1	2.48	0.91
1:C:440:VAL:CB	1:C:471:LEU:CD1	2.48	0.91
1:A:317:THR:HG1	1:A:321:THR:N	1.68	0.91
1:A:276:GLY:C	1:A:277:GLU:OE1	2.08	0.91
1:D:427:THR:CG2	1:D:436:MET:HE2	1.93	0.91
1:B:815:HIS:HE1	1:B:850:PHE:CZ	1.66	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:90:TRP:HE1	1:D:91:GLN:HE21	0.91	0.91
1:C:418:HIS:ND1	1:C:461:GLU:OE1	2.02	0.91
1:A:353:GLY:O	1:A:566:PHE:HA	1.70	0.90
1:C:651:LEU:CG	1:C:703:PRO:CG	2.45	0.90
1:D:418:HIS:ND1	1:D:461:GLU:OE1	2.02	0.90
1:C:939:CYS:SG	1:C:956:GLN:CG	2.58	0.90
1:C:867:THR:HG22	1:C:1017:GLN:OE1	1.69	0.90
1:B:173:LEU:HB3	1:B:177:LEU:HD21	1.50	0.90
1:A:41:GLU:HA	1:A:44:THR:OG1	1.69	0.90
1:C:173:LEU:HB3	1:C:177:LEU:HD21	1.50	0.90
1:B:41:GLU:HA	1:B:44:THR:OG1	1.69	0.90
1:D:651:LEU:CG	1:D:703:PRO:CG	2.45	0.90
1:A:200:GLN:O	1:A:202:MET:HE1	1.71	0.90
1:D:939:CYS:SG	1:D:956:GLN:CG	2.58	0.90
1:D:173:LEU:HB3	1:D:177:LEU:HD21	1.50	0.90
1:D:353:GLY:O	1:D:566:PHE:HA	1.71	0.90
1:D:503:TYR:HB3	1:D:997:ASP:OD1	1.71	0.90
1:D:37:ARG:HH12	1:D:218:PRO:CG	1.78	0.90
1:B:867:THR:HG22	1:B:1017:GLN:OE1	1.69	0.90
1:C:353:GLY:O	1:C:566:PHE:HA	1.71	0.90
1:A:7:LEU:CD1	1:A:74:LEU:HD12	2.02	0.90
1:B:418:HIS:CE1	1:B:461:GLU:CD	2.45	0.90
1:B:7:LEU:CD1	1:B:74:LEU:HD12	2.02	0.90
1:C:37:ARG:HH12	1:C:218:PRO:CG	1.78	0.90
1:D:867:THR:HG22	1:D:1017:GLN:OE1	1.69	0.90
1:B:764:PHE:HE2	1:B:840:HIS:HD1	1.00	0.90
1:B:823:LEU:HD12	1:B:824:GLN:N	1.85	0.90
1:C:823:LEU:HD12	1:C:824:GLN:N	1.85	0.90
1:D:54:LEU:HD11	1:D:214:LEU:CD1	2.02	0.90
1:C:54:LEU:HD11	1:C:214:LEU:CD1	2.02	0.90
1:A:111:PRO:HB3	1:A:196:TYR:HD2	1.29	0.90
1:A:418:HIS:CE1	1:A:461:GLU:CD	2.45	0.90
1:A:503:TYR:HB3	1:A:997:ASP:OD1	1.71	0.90
1:A:867:THR:HG22	1:A:1017:GLN:OE1	1.69	0.90
1:B:159:VAL:CG2	1:B:176:PHE:CD1	2.49	0.90
1:A:764:PHE:HE2	1:A:840:HIS:HD1	1.00	0.90
1:D:823:LEU:HD12	1:D:824:GLN:N	1.85	0.90
1:A:33:PHE:HB2	1:A:326:GLU:OE1	1.72	0.90
1:C:418:HIS:CE1	1:C:461:GLU:CD	2.45	0.90
1:C:503:TYR:HB3	1:C:997:ASP:OD1	1.71	0.90
1:B:37:ARG:HH12	1:B:218:PRO:CG	1.78	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:944:LEU:HD12	1:A:945:ASN:N	1.87	0.90
1:B:944:LEU:HD12	1:B:945:ASN:N	1.87	0.90
1:A:823:LEU:HD12	1:A:824:GLN:N	1.85	0.90
1:B:33:PHE:HB2	1:B:326:GLU:OE1	1.72	0.90
1:D:418:HIS:CE1	1:D:461:GLU:CD	2.45	0.90
1:C:197:LEU:HD13	1:C:415:ILE:CG2	2.00	0.90
1:B:200:GLN:O	1:B:202:MET:HE1	1.72	0.90
1:A:768:MET:HE3	1:A:1020:TRP:CH2	2.07	0.90
1:B:503:TYR:HB3	1:B:997:ASP:OD1	1.71	0.90
1:C:358:GLU:CA	1:C:367:MET:HE1	1.99	0.90
1:A:349:LEU:HD22	1:A:351:ILE:CG1	2.02	0.90
1:B:349:LEU:HD22	1:B:351:ILE:CG1	2.02	0.90
1:C:111:PRO:CB	1:C:196:TYR:HE2	1.83	0.90
1:B:768:MET:HE1	1:B:1020:TRP:CH2	2.07	0.90
1:A:159:VAL:CG2	1:A:176:PHE:CD1	2.49	0.90
1:C:974:HIS:HE1	1:C:975:LEU:HD21	1.34	0.90
1:D:197:LEU:HD13	1:D:415:ILE:CG2	2.00	0.90
1:A:197:LEU:O	1:A:416:GLU:O	1.89	0.90
1:B:111:PRO:HB3	1:B:196:TYR:HD2	1.29	0.90
1:B:197:LEU:O	1:B:416:GLU:O	1.89	0.90
1:B:921:PRO:HG2	1:B:924:ASP:CG	1.92	0.90
1:C:33:PHE:HB2	1:C:326:GLU:OE1	1.72	0.90
1:D:33:PHE:HB2	1:D:326:GLU:OE1	1.72	0.90
1:D:974:HIS:HE1	1:D:975:LEU:HD21	1.34	0.90
1:D:77:ASP:CA	1:D:183:ARG:HH12	1.85	0.90
1:C:77:ASP:CA	1:C:183:ARG:HH12	1.85	0.90
1:C:550:ALA:HA	1:C:623:GLN:HE21	0.97	0.90
1:A:921:PRO:HG2	1:A:924:ASP:CG	1.92	0.90
1:A:37:ARG:HH12	1:A:218:PRO:CG	1.78	0.89
1:C:937:LEU:HD23	1:C:990:HIS:CD2	2.07	0.89
1:B:236:SER:O	1:B:297:ASN:N	2.06	0.89
1:D:963:SER:CB	1:D:979:GLU:OE1	2.20	0.89
1:D:352:ARG:HH22	1:D:641:GLU:HG2	1.38	0.89
1:A:236:SER:O	1:A:297:ASN:N	2.05	0.89
1:C:963:SER:CB	1:C:979:GLU:OE1	2.20	0.89
1:A:770:ILE:CB	1:A:775:GLN:NE2	2.35	0.89
1:D:111:PRO:CB	1:D:196:TYR:HE2	1.83	0.89
1:D:550:ALA:CB	1:D:623:GLN:NE2	2.35	0.89
1:C:790:ASP:OD1	1:C:791:ASN:N	2.05	0.89
1:D:937:LEU:HD23	1:D:990:HIS:CD2	2.07	0.89
1:C:352:ARG:HH22	1:C:641:GLU:HG2	1.38	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:770:ILE:CB	1:B:775:GLN:NE2	2.35	0.89
1:A:90:TRP:HE1	1:A:91:GLN:HE21	0.91	0.89
1:C:550:ALA:CB	1:C:623:GLN:NE2	2.35	0.89
1:D:790:ASP:OD1	1:D:791:ASN:N	2.05	0.89
1:A:963:SER:CB	1:A:979:GLU:OE1	2.20	0.89
1:B:963:SER:CB	1:B:979:GLU:OE1	2.20	0.89
1:D:652:LEU:HD23	1:D:680:ILE:HD13	1.54	0.89
1:D:652:LEU:HD11	1:D:698:VAL:HG13	1.54	0.89
1:C:770:ILE:CB	1:C:775:GLN:NE2	2.35	0.89
1:B:256:VAL:HG21	1:B:274:PHE:HE1	1.36	0.89
1:A:197:LEU:HD13	1:A:415:ILE:CG2	2.00	0.89
1:B:197:LEU:HD13	1:B:415:ILE:CG2	2.00	0.89
1:B:423:MET:CE	1:C:281:GLU:OE2	2.20	0.89
1:A:77:ASP:CA	1:A:183:ARG:HH12	1.85	0.89
1:B:77:ASP:CA	1:B:183:ARG:HH12	1.85	0.89
1:B:853:ARG:HH11	1:B:853:ARG:HG3	1.37	0.89
1:C:747:PHE:HE1	1:C:760:ARG:NE	1.49	0.89
1:A:759:ASN:ND2	1:A:762:SER:HB3	1.86	0.89
1:C:652:LEU:HD23	1:C:680:ILE:HD13	1.54	0.89
1:D:657:ALA:HB1	1:D:661:LYS:C	1.93	0.89
1:C:657:ALA:HB1	1:C:661:LYS:C	1.93	0.89
1:A:420:MET:CE	1:A:425:ARG:HD2	2.02	0.89
1:A:460:ASN:HD21	1:A:461:GLU:HG3	1.36	0.89
1:B:90:TRP:HE1	1:B:91:GLN:HE21	0.91	0.89
1:C:652:LEU:HD11	1:C:698:VAL:HG13	1.54	0.89
1:D:770:ILE:CB	1:D:775:GLN:NE2	2.35	0.89
1:D:58:TRP:HE3	1:D:123:TYR:HB3	1.37	0.89
1:D:420:MET:CE	1:D:425:ARG:HD2	2.02	0.89
1:D:603:MET:HE3	1:D:930:VAL:CG2	2.02	0.89
1:C:420:MET:CE	1:C:425:ARG:HD2	2.02	0.89
1:B:460:ASN:HD21	1:B:461:GLU:HG3	1.36	0.89
1:A:853:ARG:HG3	1:A:853:ARG:HH11	1.37	0.89
1:A:657:ALA:HB1	1:A:661:LYS:C	1.93	0.89
1:D:7:LEU:CD1	1:D:74:LEU:HD12	2.02	0.89
1:A:423:MET:CE	1:D:281:GLU:OE2	2.20	0.89
1:B:420:MET:CE	1:B:425:ARG:HD2	2.02	0.89
1:D:550:ALA:HA	1:D:623:GLN:HE21	0.97	0.89
1:D:921:PRO:HG2	1:D:924:ASP:CG	1.92	0.89
1:D:747:PHE:HE1	1:D:760:ARG:NE	1.49	0.89
1:B:759:ASN:ND2	1:B:762:SER:HB3	1.86	0.89
1:C:358:GLU:C	1:C:367:MET:HE1	1.91	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:256:VAL:HG21	1:A:274:PHE:HE1	1.36	0.89
1:B:657:ALA:HB1	1:B:661:LYS:C	1.93	0.89
1:D:197:LEU:O	1:D:416:GLU:O	1.89	0.89
1:C:58:TRP:HE3	1:C:123:TYR:HB3	1.37	0.89
1:B:900:LEU:HB2	1:B:905:ASN:HD21	1.37	0.89
1:A:102:ASN:N	1:A:598:ASP:OD1	2.06	0.89
1:D:816:TYR:CE2	1:D:968:MET:HE1	2.08	0.89
1:D:427:THR:HA	1:D:436:MET:HE3	0.89	0.89
1:D:742:THR:CG2	1:D:760:ARG:HH21	1.81	0.89
1:C:197:LEU:O	1:C:416:GLU:O	1.89	0.89
1:C:7:LEU:CD1	1:C:74:LEU:HD12	2.02	0.89
1:B:54:LEU:HD11	1:B:214:LEU:CD1	2.01	0.89
1:A:54:LEU:HD11	1:A:214:LEU:CD1	2.02	0.89
1:C:816:TYR:CE2	1:C:968:MET:HE1	2.08	0.89
1:C:921:PRO:HG2	1:C:924:ASP:CG	1.92	0.89
1:A:900:LEU:HB2	1:A:905:ASN:HD21	1.37	0.88
1:B:102:ASN:N	1:B:598:ASP:OD1	2.06	0.88
1:B:790:ASP:OD1	1:B:791:ASN:N	2.05	0.88
1:A:693:GLN:CD	1:A:721:ARG:HG2	1.93	0.88
1:B:937:LEU:HD23	1:B:990:HIS:CD2	2.07	0.88
1:A:790:ASP:OD1	1:A:791:ASN:N	2.05	0.88
1:A:942:ARG:HH21	1:A:942:ARG:HG3	1.36	0.88
1:C:236:SER:O	1:C:297:ASN:N	2.05	0.88
1:B:221:GLN:HB2	1:B:324:GLU:OE2	1.73	0.88
1:B:693:GLN:CD	1:B:721:ARG:HG2	1.93	0.88
1:A:937:LEU:HD23	1:A:990:HIS:CD2	2.07	0.88
1:D:236:SER:O	1:D:297:ASN:N	2.05	0.88
1:C:853:ARG:HG3	1:C:853:ARG:HH11	1.37	0.88
1:D:60:PHE:HD1	1:D:123:TYR:CE1	1.92	0.88
1:C:60:PHE:HD1	1:C:123:TYR:CE1	1.92	0.88
1:B:111:PRO:CB	1:B:196:TYR:HE2	1.83	0.88
1:B:550:ALA:CB	1:B:623:GLN:NE2	2.35	0.88
1:A:550:ALA:CB	1:A:623:GLN:NE2	2.35	0.88
1:C:742:THR:CG2	1:C:760:ARG:HH21	1.81	0.88
1:B:824:GLN:NE2	1:B:826:THR:HG23	1.89	0.88
1:A:824:GLN:NE2	1:A:826:THR:HG23	1.88	0.88
1:B:694:LEU:HB3	1:B:722:LEU:HB2	1.56	0.88
1:C:694:LEU:HB3	1:C:722:LEU:HB2	1.56	0.88
1:B:942:ARG:HG3	1:B:942:ARG:HH21	1.36	0.88
1:A:816:TYR:CE2	1:A:968:MET:HE1	2.08	0.88
1:A:221:GLN:HB2	1:A:324:GLU:OE2	1.73	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:937:LEU:CD2	1:B:990:HIS:CD2	2.57	0.88
1:A:937:LEU:CD2	1:A:990:HIS:CD2	2.57	0.88
1:D:694:LEU:HB3	1:D:722:LEU:HB2	1.56	0.88
1:D:853:ARG:HH11	1:D:853:ARG:HG3	1.37	0.88
1:B:816:TYR:CE2	1:B:968:MET:HE1	2.08	0.88
1:A:111:PRO:CB	1:A:196:TYR:HE2	1.83	0.88
1:B:60:PHE:HD1	1:B:123:TYR:CE1	1.92	0.88
1:D:102:ASN:N	1:D:598:ASP:OD1	2.06	0.88
1:A:694:LEU:HB3	1:A:722:LEU:HB2	1.56	0.88
1:D:944:LEU:HD12	1:D:945:ASN:N	1.87	0.88
1:C:742:THR:HG23	1:C:760:ARG:HH21	1.33	0.88
1:D:358:GLU:C	1:D:367:MET:HE2	1.92	0.88
1:A:60:PHE:HD1	1:A:123:TYR:CE1	1.92	0.88
1:B:358:GLU:C	1:B:367:MET:HE2	1.92	0.88
1:C:102:ASN:N	1:C:598:ASP:OD1	2.06	0.88
1:C:937:LEU:CD2	1:C:990:HIS:CD2	2.57	0.88
1:D:937:LEU:CD2	1:D:990:HIS:CD2	2.57	0.88
1:D:719:GLN:OE1	1:D:914:CYS:HB2	1.74	0.88
1:C:166:ARG:HG3	1:C:392:TYR:HB2	1.56	0.88
1:D:349:LEU:HD22	1:D:351:ILE:CG1	2.02	0.88
1:C:36:TRP:CE2	1:C:42:ALA:HB2	2.09	0.88
1:D:221:GLN:HB2	1:D:324:GLU:OE2	1.73	0.88
1:D:36:TRP:CE2	1:D:42:ALA:HB2	2.09	0.88
1:C:603:MET:HE3	1:C:930:VAL:CG2	2.03	0.88
1:A:612:THR:HG23	1:A:613:PRO:HD2	1.56	0.88
1:C:719:GLN:OE1	1:C:914:CYS:HB2	1.74	0.88
1:C:944:LEU:HD12	1:C:945:ASN:N	1.87	0.88
1:B:771:GLY:HA3	1:B:772:ASP:HB2	1.56	0.88
1:A:771:GLY:HA3	1:A:772:ASP:HB2	1.56	0.88
1:A:427:THR:HG22	1:A:436:MET:HE1	1.42	0.87
1:C:824:GLN:NE2	1:C:826:THR:HG23	1.88	0.87
1:A:652:LEU:HD23	1:A:680:ILE:HD13	1.54	0.87
1:D:54:LEU:CG	1:D:214:LEU:CD1	2.53	0.87
1:D:460:ASN:HD21	1:D:461:GLU:HG3	1.36	0.87
1:C:54:LEU:CG	1:C:214:LEU:CD1	2.52	0.87
1:C:460:ASN:HD21	1:C:461:GLU:HG3	1.36	0.87
1:B:612:THR:HG23	1:B:613:PRO:HD2	1.56	0.87
1:D:272:ALA:CB	1:D:291:LEU:CD2	2.52	0.87
1:B:54:LEU:CG	1:B:214:LEU:CD1	2.52	0.87
1:A:54:LEU:CG	1:A:214:LEU:CD1	2.52	0.87
1:D:166:ARG:HG3	1:D:392:TYR:HB2	1.56	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:349:LEU:HD22	1:C:351:ILE:CG1	2.02	0.87
1:B:970:THR:OG1	1:B:976:LEU:CD2	2.22	0.87
1:A:719:GLN:OE1	1:A:914:CYS:HB2	1.74	0.87
1:C:272:ALA:CB	1:C:291:LEU:CD2	2.52	0.87
1:D:742:THR:HG23	1:D:760:ARG:HH21	1.33	0.87
1:D:824:GLN:NE2	1:D:826:THR:HG23	1.88	0.87
1:A:970:THR:OG1	1:A:976:LEU:CD2	2.22	0.87
1:B:652:LEU:HD23	1:B:680:ILE:HD13	1.54	0.87
1:C:221:GLN:HB2	1:C:324:GLU:OE2	1.73	0.87
1:D:693:GLN:CD	1:D:721:ARG:HG2	1.93	0.87
1:A:352:ARG:HH22	1:A:641:GLU:HG2	1.38	0.87
1:B:719:GLN:OE1	1:B:914:CYS:HB2	1.74	0.87
1:C:440:VAL:HG11	1:C:471:LEU:CD1	2.03	0.87
1:C:506:VAL:O	1:C:519:SER:HB2	1.74	0.87
1:A:652:LEU:HD11	1:A:698:VAL:HG13	1.54	0.87
1:A:509:ASP:HB2	1:A:518:TRP:HA	1.55	0.87
1:D:440:VAL:HG11	1:D:471:LEU:CD1	2.03	0.87
1:D:506:VAL:O	1:D:519:SER:HB2	1.74	0.87
1:A:742:THR:CG2	1:A:760:ARG:HH22	1.65	0.87
1:C:693:GLN:CD	1:C:721:ARG:HG2	1.93	0.87
1:C:200:GLN:O	1:C:202:MET:HE1	1.74	0.87
1:A:456:TRP:NE1	1:A:482:ARG:HD2	1.89	0.87
1:D:456:TRP:NE1	1:D:482:ARG:HD2	1.89	0.87
1:C:317:THR:HG1	1:C:321:THR:N	1.73	0.87
1:A:764:PHE:HE2	1:A:840:HIS:CE1	1.57	0.87
1:A:205:MET:CE	1:A:365:GLN:CG	2.50	0.87
1:D:900:LEU:HB2	1:D:905:ASN:HD21	1.37	0.87
1:B:456:TRP:NE1	1:B:482:ARG:HD2	1.89	0.87
1:B:352:ARG:HH22	1:B:641:GLU:HG2	1.38	0.87
1:C:456:TRP:NE1	1:C:482:ARG:HD2	1.89	0.87
1:B:506:VAL:O	1:B:519:SER:HB2	1.74	0.87
1:D:317:THR:HG1	1:D:321:THR:N	1.73	0.87
1:C:815:HIS:HE1	1:C:850:PHE:CZ	1.66	0.87
1:B:221:GLN:NE2	1:B:247:CYS:HB3	1.90	0.87
1:A:221:GLN:NE2	1:A:247:CYS:HB3	1.90	0.87
1:B:509:ASP:HB2	1:B:518:TRP:HA	1.55	0.87
1:B:652:LEU:HD11	1:B:698:VAL:HG13	1.54	0.87
1:D:200:GLN:O	1:D:202:MET:HE1	1.74	0.87
1:B:205:MET:CE	1:B:365:GLN:CG	2.50	0.87
1:B:556:PHE:CE1	1:B:564:GLY:CA	2.58	0.87
1:A:768:MET:HE1	1:A:1020:TRP:CZ3	1.90	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:506:VAL:O	1:A:519:SER:HB2	1.74	0.87
1:A:556:PHE:CE1	1:A:564:GLY:CA	2.58	0.87
1:C:900:LEU:HB2	1:C:905:ASN:HD21	1.37	0.87
1:A:440:VAL:HG11	1:A:471:LEU:CD1	2.03	0.87
1:A:742:THR:HG23	1:A:760:ARG:HH21	1.33	0.86
1:B:427:THR:CG2	1:B:436:MET:HE2	1.98	0.86
1:B:974:HIS:HE1	1:B:975:LEU:HD21	1.34	0.86
1:A:272:ALA:HB2	1:A:291:LEU:HD21	1.53	0.86
1:D:908:ASP:CA	1:D:1007:PHE:CE1	2.58	0.86
1:C:908:ASP:CA	1:C:1007:PHE:CE1	2.58	0.86
1:D:509:ASP:HB2	1:D:518:TRP:HA	1.55	0.86
1:B:742:THR:HG23	1:B:760:ARG:HH21	1.33	0.86
1:D:251:ARG:HB2	1:D:254:LEU:HD23	1.57	0.86
1:B:440:VAL:HG11	1:B:471:LEU:CD1	2.03	0.86
1:B:655:MET:CE	1:B:699:ARG:NH1	2.39	0.86
1:B:786:ARG:NE	1:B:880:ALA:HB1	1.90	0.86
1:D:815:HIS:HE1	1:D:850:PHE:CZ	1.66	0.86
1:C:251:ARG:HB2	1:C:254:LEU:HD23	1.57	0.86
1:A:970:THR:CB	1:A:976:LEU:HD21	2.05	0.86
1:D:556:PHE:CE1	1:D:564:GLY:CA	2.58	0.86
1:B:479:ASP:OD1	1:B:481:SER:OG	1.91	0.86
1:A:479:ASP:OD1	1:A:481:SER:OG	1.91	0.86
1:A:655:MET:CE	1:A:699:ARG:NH1	2.39	0.86
1:A:786:ARG:NE	1:A:880:ALA:HB1	1.90	0.86
1:A:433:LEU:HB2	1:A:467:ASN:ND2	1.90	0.86
1:D:970:THR:OG1	1:D:976:LEU:CD2	2.22	0.86
1:B:970:THR:CB	1:B:976:LEU:HD21	2.05	0.86
1:B:246:MET:SD	1:B:274:PHE:HE2	1.98	0.86
1:A:788:PRO:HA	1:A:792:ASP:OD2	1.75	0.86
1:C:942:ARG:HH21	1:C:942:ARG:HG3	1.36	0.86
1:D:479:ASP:OD1	1:D:481:SER:OG	1.91	0.86
1:B:36:TRP:CE2	1:B:42:ALA:HB2	2.09	0.86
1:A:246:MET:SD	1:A:274:PHE:HE2	1.98	0.86
1:B:272:ALA:HB2	1:B:291:LEU:HD21	1.53	0.86
1:B:768:MET:HE2	1:B:1020:TRP:CZ3	1.90	0.86
1:C:556:PHE:CE1	1:C:564:GLY:CA	2.58	0.86
1:C:509:ASP:HB2	1:C:518:TRP:HA	1.55	0.86
1:B:764:PHE:HE2	1:B:840:HIS:CE1	1.57	0.86
1:B:433:LEU:HB2	1:B:467:ASN:ND2	1.90	0.86
1:C:221:GLN:NE2	1:C:247:CYS:HB3	1.90	0.86
1:D:221:GLN:NE2	1:D:247:CYS:HB3	1.90	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:974:HIS:HE1	1:A:975:LEU:HD21	1.34	0.86
1:A:36:TRP:CE2	1:A:42:ALA:HB2	2.09	0.86
1:A:58:TRP:HE3	1:A:123:TYR:HB3	1.37	0.86
1:B:788:PRO:HA	1:B:792:ASP:OD2	1.75	0.86
1:D:942:ARG:HG3	1:D:942:ARG:HH21	1.36	0.86
1:C:246:MET:SD	1:C:274:PHE:HE2	1.98	0.86
1:D:36:TRP:NE1	1:D:42:ALA:CA	2.39	0.86
1:C:970:THR:OG1	1:C:976:LEU:CD2	2.22	0.86
1:C:572:ASP:CG	1:C:603:MET:HE2	1.95	0.86
1:B:534:ILE:HG12	1:B:563:GLN:HB2	1.58	0.86
1:D:891:VAL:HG11	1:D:961:ARG:HH22	1.39	0.86
1:C:440:VAL:HB	1:C:471:LEU:CD1	2.05	0.86
1:A:959:ILE:HD12	1:A:984:LEU:CD1	2.03	0.86
1:C:479:ASP:OD1	1:C:481:SER:OG	1.91	0.86
1:C:36:TRP:NE1	1:C:42:ALA:CA	2.39	0.86
1:A:99:ILE:HD13	1:A:106:PRO:CB	2.05	0.86
1:B:58:TRP:HE3	1:B:123:TYR:HB3	1.37	0.86
1:A:534:ILE:HG12	1:A:563:GLN:HB2	1.58	0.86
1:C:959:ILE:HD12	1:C:984:LEU:CD1	2.03	0.86
1:C:723:ALA:HB1	1:D:875:ASP:CB	2.06	0.86
1:C:875:ASP:CB	1:D:723:ALA:HB1	2.06	0.86
1:C:771:GLY:HA3	1:C:772:ASP:HB2	1.56	0.86
1:A:160:GLY:HA3	1:A:171:PHE:CE2	2.11	0.86
1:D:246:MET:SD	1:D:274:PHE:HE2	1.98	0.86
1:C:684:GLU:OE1	1:C:685:LEU:N	2.08	0.86
1:D:440:VAL:HB	1:D:471:LEU:CD1	2.05	0.86
1:D:343:LEU:HD23	1:D:347:LYS:O	1.76	0.86
1:A:63:PHE:CE2	1:A:70:PRO:CD	2.59	0.86
1:D:771:GLY:HA3	1:D:772:ASP:HB2	1.56	0.86
1:B:160:GLY:HA3	1:B:171:PHE:CE2	2.11	0.86
1:B:99:ILE:HD13	1:B:106:PRO:CB	2.05	0.86
1:C:788:PRO:HA	1:C:792:ASP:OD2	1.75	0.86
1:C:891:VAL:HG11	1:C:961:ARG:HH22	1.39	0.86
1:D:684:GLU:OE1	1:D:685:LEU:N	2.08	0.86
1:B:959:ILE:HD12	1:B:984:LEU:CD1	2.03	0.86
1:B:86:VAL:CG1	1:B:87:PRO:HA	2.06	0.86
1:C:343:LEU:HD23	1:C:347:LYS:O	1.76	0.86
1:A:63:PHE:CZ	1:A:70:PRO:HD2	2.10	0.86
1:D:788:PRO:HA	1:D:792:ASP:OD2	1.75	0.85
1:A:530:THR:C	1:A:561:ARG:HH21	1.78	0.85
1:B:530:THR:C	1:B:561:ARG:HH21	1.78	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:86:VAL:CG1	1:A:87:PRO:HA	2.06	0.85
1:B:63:PHE:CE2	1:B:70:PRO:CD	2.59	0.85
1:C:786:ARG:NE	1:C:880:ALA:HB1	1.90	0.85
1:B:166:ARG:HG3	1:B:392:TYR:HB2	1.56	0.85
1:A:166:ARG:HG3	1:A:392:TYR:HB2	1.56	0.85
1:D:786:ARG:NE	1:D:880:ALA:HB1	1.90	0.85
1:D:160:GLY:HA3	1:D:171:PHE:CE2	2.11	0.85
1:B:251:ARG:HB2	1:B:254:LEU:HD23	1.57	0.85
1:C:99:ILE:HD13	1:C:106:PRO:CB	2.05	0.85
1:B:684:GLU:OE1	1:B:685:LEU:N	2.08	0.85
1:D:959:ILE:HD12	1:D:984:LEU:CD1	2.03	0.85
1:D:970:THR:CB	1:D:976:LEU:HD21	2.05	0.85
1:D:58:TRP:CE3	1:D:123:TYR:HB3	2.12	0.85
1:D:99:ILE:HD13	1:D:106:PRO:CB	2.05	0.85
1:C:58:TRP:CE3	1:C:123:TYR:HB3	2.12	0.85
1:A:684:GLU:OE1	1:A:685:LEU:N	2.08	0.85
1:A:440:VAL:HB	1:A:471:LEU:CD1	2.05	0.85
1:B:63:PHE:CZ	1:B:70:PRO:HD2	2.10	0.85
1:A:343:LEU:HD23	1:A:347:LYS:O	1.76	0.85
1:C:160:GLY:HA3	1:C:171:PHE:CE2	2.11	0.85
1:C:36:TRP:CE2	1:C:42:ALA:CB	2.60	0.85
1:D:36:TRP:CE2	1:D:42:ALA:CB	2.60	0.85
1:A:251:ARG:HB2	1:A:254:LEU:HD23	1.57	0.85
1:D:358:GLU:HG3	1:D:367:MET:HE3	0.85	0.85
1:B:107:ILE:HD11	1:B:196:TYR:CE1	2.12	0.85
1:B:440:VAL:HB	1:B:471:LEU:CD1	2.05	0.85
1:B:343:LEU:HD23	1:B:347:LYS:O	1.76	0.85
1:C:970:THR:CB	1:C:976:LEU:HD21	2.05	0.85
1:B:169:SER:C	1:B:170:GLU:OE1	2.15	0.85
1:A:169:SER:C	1:A:170:GLU:OE1	2.15	0.85
1:C:612:THR:HG23	1:C:613:PRO:HD2	1.56	0.85
1:D:612:THR:HG23	1:D:613:PRO:HD2	1.56	0.85
1:C:530:THR:C	1:C:561:ARG:HH21	1.78	0.85
1:C:719:GLN:OE1	1:C:914:CYS:CB	2.25	0.85
1:D:505:ARG:O	1:D:519:SER:HA	1.76	0.85
1:B:173:LEU:O	1:B:177:LEU:HG	1.77	0.85
1:A:107:ILE:HD11	1:A:196:TYR:CE1	2.12	0.85
1:B:358:GLU:HG3	1:B:367:MET:HE3	0.85	0.85
1:C:378:LEU:O	1:C:382:ASN:ND2	2.10	0.85
1:D:378:LEU:O	1:D:382:ASN:ND2	2.10	0.85
1:A:908:ASP:CA	1:A:1007:PHE:CE1	2.58	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:530:THR:C	1:D:561:ARG:HH21	1.78	0.85
1:D:719:GLN:OE1	1:D:914:CYS:CB	2.25	0.85
1:C:505:ARG:O	1:C:519:SER:HA	1.76	0.85
1:C:655:MET:CE	1:C:699:ARG:NH1	2.39	0.85
1:A:173:LEU:O	1:A:177:LEU:HG	1.77	0.85
1:D:36:TRP:CE2	1:D:42:ALA:CA	2.60	0.85
1:C:534:ILE:HG12	1:C:563:GLN:HB2	1.58	0.85
1:D:534:ILE:HG12	1:D:563:GLN:HB2	1.58	0.85
1:B:908:ASP:CA	1:B:1007:PHE:CE1	2.58	0.85
1:D:63:PHE:CZ	1:D:70:PRO:HD2	2.10	0.85
1:C:63:PHE:CZ	1:C:70:PRO:HD2	2.10	0.85
1:D:433:LEU:HB2	1:D:467:ASN:ND2	1.90	0.85
1:D:217:LYS:CD	1:D:221:GLN:HG3	2.07	0.85
1:A:205:MET:HE2	1:A:365:GLN:HG2	1.56	0.85
1:B:378:LEU:O	1:B:382:ASN:ND2	2.10	0.85
1:A:719:GLN:OE1	1:A:914:CYS:CB	2.25	0.85
1:B:719:GLN:OE1	1:B:914:CYS:CB	2.25	0.85
1:D:655:MET:CE	1:D:699:ARG:NH1	2.39	0.85
1:C:433:LEU:HB2	1:C:467:ASN:ND2	1.90	0.85
1:C:217:LYS:CD	1:C:221:GLN:HG3	2.07	0.85
1:C:36:TRP:CE2	1:C:42:ALA:CA	2.60	0.85
1:B:657:ALA:HA	1:B:662:PRO:CA	2.03	0.85
1:D:572:ASP:CG	1:D:603:MET:HE2	1.96	0.85
1:A:378:LEU:O	1:A:382:ASN:ND2	2.10	0.85
1:D:221:GLN:HE22	1:D:247:CYS:HB3	1.41	0.85
1:D:86:VAL:CG1	1:D:87:PRO:HA	2.06	0.85
1:C:86:VAL:CG1	1:C:87:PRO:HA	2.06	0.85
1:D:63:PHE:CD1	1:D:69:VAL:HG12	2.12	0.85
1:C:63:PHE:CD1	1:C:69:VAL:HG12	2.12	0.85
1:B:427:THR:HA	1:B:436:MET:HE3	0.85	0.84
1:C:221:GLN:HE22	1:C:247:CYS:HB3	1.41	0.84
1:B:36:TRP:NE1	1:B:42:ALA:CA	2.39	0.84
1:B:272:ALA:HB3	1:B:291:LEU:HD21	1.59	0.84
1:C:63:PHE:CE2	1:C:70:PRO:CD	2.59	0.84
1:B:36:TRP:CE2	1:B:42:ALA:CA	2.60	0.84
1:A:36:TRP:CZ2	1:A:42:ALA:CA	2.60	0.84
1:A:36:TRP:NE1	1:A:42:ALA:CA	2.39	0.84
1:A:272:ALA:HB3	1:A:291:LEU:HD21	1.59	0.84
1:A:476:LYS:NZ	1:A:497:ASP:OD2	2.10	0.84
1:D:63:PHE:CE2	1:D:70:PRO:CD	2.59	0.84
1:C:173:LEU:O	1:C:177:LEU:HG	1.77	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:36:TRP:CZ2	1:B:42:ALA:CA	2.60	0.84
1:A:36:TRP:CE2	1:A:42:ALA:CA	2.60	0.84
1:A:723:ALA:HB1	1:B:875:ASP:CB	2.07	0.84
1:C:205:MET:HE2	1:C:365:GLN:HG2	1.60	0.84
1:B:476:LYS:NZ	1:B:497:ASP:OD2	2.10	0.84
1:A:874:SER:HG	1:B:724:GLU:HB2	1.04	0.84
1:B:23:GLN:NE2	1:B:23:GLN:O	2.11	0.84
1:A:23:GLN:NE2	1:A:23:GLN:O	2.11	0.84
1:B:336:ARG:HH11	1:B:338:GLU:CD	1.77	0.84
1:A:875:ASP:CB	1:B:723:ALA:HB1	2.07	0.84
1:D:173:LEU:O	1:D:177:LEU:HG	1.77	0.84
1:B:272:ALA:CB	1:B:291:LEU:CD2	2.52	0.84
1:A:336:ARG:HH11	1:A:338:GLU:CD	1.77	0.84
1:A:316:HIS:HA	1:A:322:LEU:HA	1.58	0.84
1:C:456:TRP:HE1	1:C:482:ARG:HD2	1.43	0.84
1:B:737:ILE:HD13	1:B:832:ASP:HA	1.58	0.84
1:D:141:ILE:HD13	1:D:143:PHE:CZ	2.13	0.84
1:C:141:ILE:HD13	1:C:143:PHE:CZ	2.13	0.84
1:B:802:ASP:OD1	1:B:803:PRO:HD2	1.77	0.84
1:A:802:ASP:OD1	1:A:803:PRO:HD2	1.77	0.84
1:B:891:VAL:HG11	1:B:961:ARG:HH22	1.39	0.84
1:D:456:TRP:HE1	1:D:482:ARG:HD2	1.43	0.84
1:C:476:LYS:NZ	1:C:497:ASP:OD2	2.10	0.84
1:D:427:THR:CA	1:D:436:MET:HE3	1.85	0.84
1:B:221:GLN:HE22	1:B:247:CYS:HB3	1.41	0.84
1:B:316:HIS:HA	1:B:322:LEU:HA	1.58	0.84
1:D:610:ASP:N	1:D:611:ARG:HA	1.92	0.84
1:A:737:ILE:HD13	1:A:832:ASP:HA	1.58	0.84
1:B:63:PHE:CD1	1:B:69:VAL:HG12	2.12	0.84
1:D:128:ASN:OD1	1:D:181:GLU:HB3	1.78	0.84
1:B:256:VAL:CG2	1:B:274:PHE:HE1	1.91	0.84
1:A:217:LYS:CD	1:A:221:GLN:HG3	2.07	0.84
1:A:221:GLN:HE22	1:A:247:CYS:HB3	1.41	0.84
1:A:256:VAL:CG2	1:A:274:PHE:HE1	1.91	0.84
1:A:272:ALA:CB	1:A:291:LEU:CD2	2.52	0.84
1:B:651:LEU:CG	1:B:703:PRO:CG	2.45	0.84
1:A:651:LEU:CG	1:A:703:PRO:CG	2.45	0.84
1:A:58:TRP:CE3	1:A:123:TYR:HB3	2.12	0.84
1:C:23:GLN:NE2	1:C:23:GLN:O	2.11	0.84
1:A:891:VAL:HG11	1:A:961:ARG:HH22	1.39	0.84
1:D:476:LYS:NZ	1:D:497:ASP:OD2	2.10	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:128:ASN:OD1	1:C:181:GLU:HB3	1.78	0.84
1:B:217:LYS:CD	1:B:221:GLN:HG3	2.07	0.84
1:B:36:TRP:CE2	1:B:42:ALA:CB	2.60	0.84
1:B:58:TRP:CE3	1:B:123:TYR:HB3	2.12	0.84
1:B:890:GLN:NE2	1:B:947:GLY:HA3	1.92	0.84
1:A:890:GLN:NE2	1:A:947:GLY:HA3	1.92	0.84
1:D:23:GLN:O	1:D:23:GLN:NE2	2.11	0.84
1:C:336:ARG:HH11	1:C:338:GLU:CD	1.77	0.84
1:D:336:ARG:HH11	1:D:338:GLU:CD	1.77	0.84
1:C:610:ASP:N	1:C:611:ARG:HA	1.92	0.84
1:D:737:ILE:HD13	1:D:832:ASP:HA	1.58	0.84
1:A:63:PHE:CD1	1:A:69:VAL:HG12	2.12	0.84
1:A:36:TRP:CE2	1:A:42:ALA:CB	2.60	0.84
1:D:205:MET:HE2	1:D:365:GLN:HG2	1.60	0.84
1:A:12:GLN:HE21	1:D:4:THR:HG23	1.43	0.84
1:A:505:ARG:O	1:A:519:SER:HA	1.76	0.84
1:C:890:GLN:NE2	1:C:947:GLY:HA3	1.92	0.84
1:A:608:PHE:O	1:A:611:ARG:CB	2.26	0.84
1:B:505:ARG:O	1:B:519:SER:HA	1.76	0.84
1:C:737:ILE:HD13	1:C:832:ASP:HA	1.58	0.84
1:A:141:ILE:HD13	1:A:143:PHE:CZ	2.13	0.84
1:D:919:ASP:O	1:D:920:LEU:HD23	1.78	0.84
1:C:919:ASP:O	1:C:920:LEU:HD23	1.78	0.84
1:D:399:TYR:HE1	1:D:446:ARG:HH11	1.25	0.84
1:A:159:VAL:HG22	1:A:176:PHE:HE1	1.02	0.83
1:B:159:VAL:HG22	1:B:176:PHE:HE1	1.02	0.83
1:C:316:HIS:HA	1:C:322:LEU:HA	1.58	0.83
1:A:610:ASP:N	1:A:611:ARG:HA	1.92	0.83
1:B:608:PHE:O	1:B:611:ARG:CB	2.26	0.83
1:B:141:ILE:HD13	1:B:143:PHE:CZ	2.13	0.83
1:D:890:GLN:NE2	1:D:947:GLY:HA3	1.92	0.83
1:B:615:PRO:HB2	1:B:904:GLU:OE2	1.78	0.83
1:D:316:HIS:HA	1:D:322:LEU:HA	1.58	0.83
1:B:610:ASP:N	1:B:611:ARG:HA	1.92	0.83
1:C:399:TYR:HE1	1:C:446:ARG:HH11	1.25	0.83
1:A:919:ASP:O	1:A:920:LEU:HD23	1.78	0.83
1:A:516:PRO:HB2	1:A:518:TRP:CZ2	2.14	0.83
1:C:169:SER:C	1:C:170:GLU:OE1	2.15	0.83
1:C:73:TRP:NE1	1:C:183:ARG:NH2	2.26	0.83
1:A:615:PRO:HB2	1:A:904:GLU:OE2	1.78	0.83
1:C:608:PHE:O	1:C:611:ARG:CB	2.26	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:516:PRO:HB2	1:B:518:TRP:CZ2	2.14	0.83
1:B:919:ASP:O	1:B:920:LEU:HD23	1.78	0.83
1:A:780:LEU:HD11	1:A:884:LEU:HD13	1.60	0.83
1:B:780:LEU:HD11	1:B:884:LEU:HD13	1.60	0.83
1:A:724:GLU:HB2	1:B:874:SER:HG	1.02	0.83
1:D:92:MET:HA	1:D:92:MET:HE3	1.59	0.83
1:B:556:PHE:CD1	1:B:564:GLY:CA	2.61	0.83
1:A:556:PHE:CD1	1:A:564:GLY:CA	2.61	0.83
1:D:73:TRP:NE1	1:D:183:ARG:NH2	2.26	0.83
1:D:608:PHE:O	1:D:611:ARG:CB	2.26	0.83
1:A:908:ASP:OD1	1:A:1007:PHE:HE1	1.61	0.83
1:A:128:ASN:OD1	1:A:181:GLU:HB3	1.78	0.83
1:C:140:ARG:HH21	1:C:217:LYS:HG3	1.44	0.83
1:C:92:MET:HA	1:C:92:MET:HE3	1.59	0.83
1:B:12:GLN:HE21	1:C:4:THR:HG23	1.44	0.83
1:D:169:SER:C	1:D:170:GLU:OE1	2.15	0.83
1:A:617:LEU:O	1:A:617:LEU:HD23	1.79	0.83
1:B:617:LEU:O	1:B:617:LEU:HD23	1.79	0.83
1:B:908:ASP:OD1	1:B:1007:PHE:HE1	1.61	0.83
1:A:747:PHE:CE2	1:A:827:ALA:HB3	2.09	0.83
1:C:256:VAL:CG2	1:C:274:PHE:HE1	1.91	0.83
1:D:140:ARG:HH21	1:D:217:LYS:HG3	1.44	0.83
1:D:256:VAL:CG2	1:D:274:PHE:HE1	1.91	0.83
1:D:107:ILE:HD11	1:D:196:TYR:CE1	2.12	0.83
1:A:111:PRO:CA	1:A:196:TYR:HE2	1.91	0.83
1:C:802:ASP:OD1	1:C:803:PRO:HD2	1.77	0.83
1:D:816:TYR:CE2	1:D:968:MET:CE	2.62	0.83
1:C:816:TYR:CE2	1:C:968:MET:CE	2.62	0.83
1:B:128:ASN:OD1	1:B:181:GLU:HB3	1.78	0.83
1:D:763:GLY:CA	1:D:822:LEU:HD21	2.08	0.83
1:B:37:ARG:HH12	1:B:218:PRO:HG3	1.37	0.83
1:D:816:TYR:HE2	1:D:968:MET:CE	1.91	0.83
1:C:816:TYR:HE2	1:C:968:MET:CE	1.92	0.83
1:D:159:VAL:HG22	1:D:176:PHE:HE1	1.02	0.83
1:C:763:GLY:CA	1:C:822:LEU:HD21	2.08	0.83
1:A:758:PHE:CD1	1:A:765:LEU:CB	2.58	0.83
1:B:823:LEU:CG	1:B:839:ALA:CB	2.57	0.83
1:A:823:LEU:CG	1:A:839:ALA:CB	2.57	0.83
1:C:30:HIS:HE2	1:C:33:PHE:HE1	1.23	0.83
1:C:107:ILE:HD11	1:C:196:TYR:CE1	2.12	0.83
1:B:440:VAL:HG21	1:B:471:LEU:HD12	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:34:ALA:HB3	1:A:36:TRP:CZ3	2.14	0.83
1:A:515:VAL:HG23	1:D:280:ASP:HB3	1.60	0.83
1:B:515:VAL:HG23	1:C:280:ASP:HB3	1.60	0.83
1:D:802:ASP:OD1	1:D:803:PRO:HD2	1.77	0.83
1:A:440:VAL:HG21	1:A:471:LEU:HD12	1.60	0.83
1:C:272:ALA:HB3	1:C:291:LEU:HD21	1.59	0.83
1:B:740:LEU:HD12	1:B:740:LEU:O	1.79	0.83
1:C:317:THR:N	1:C:321:THR:O	2.09	0.83
1:C:159:VAL:CG2	1:C:176:PHE:HE1	1.73	0.83
1:D:779:PRO:HG2	1:D:781:ARG:NH1	1.93	0.83
1:A:763:GLY:CA	1:A:822:LEU:HD21	2.08	0.83
1:B:747:PHE:CE2	1:B:827:ALA:HB3	2.09	0.83
1:B:353:GLY:O	1:B:567:VAL:N	2.12	0.83
1:C:36:TRP:CZ2	1:C:42:ALA:CA	2.60	0.83
1:D:36:TRP:CZ2	1:D:42:ALA:CA	2.60	0.83
1:C:970:THR:CB	1:C:976:LEU:CD2	2.57	0.83
1:D:970:THR:CB	1:D:976:LEU:CD2	2.57	0.83
1:D:91:GLN:CD	1:D:96:ASP:HB2	2.00	0.83
1:C:205:MET:CE	1:C:365:GLN:CG	2.50	0.83
1:C:91:GLN:CD	1:C:96:ASP:HB2	1.99	0.83
1:B:107:ILE:HD12	1:B:108:THR:O	1.79	0.83
1:A:358:GLU:C	1:A:367:MET:HE2	1.99	0.83
1:D:317:THR:N	1:D:321:THR:O	2.09	0.83
1:C:779:PRO:HG2	1:C:781:ARG:NH1	1.93	0.82
1:B:758:PHE:CD1	1:B:765:LEU:CB	2.58	0.82
1:B:763:GLY:CA	1:B:822:LEU:HD21	2.08	0.82
1:A:353:GLY:O	1:A:567:VAL:N	2.12	0.82
1:D:30:HIS:HE2	1:D:33:PHE:HE1	1.23	0.82
1:B:34:ALA:HB3	1:B:36:TRP:CZ3	2.14	0.82
1:A:30:HIS:HE2	1:A:33:PHE:HE1	1.23	0.82
1:A:107:ILE:HD12	1:A:108:THR:O	1.79	0.82
1:B:89:ASN:ND2	1:B:205:MET:HE2	1.93	0.82
1:A:740:LEU:HD12	1:A:740:LEU:O	1.79	0.82
1:A:816:TYR:CE2	1:A:968:MET:CE	2.62	0.82
1:B:816:TYR:HE2	1:B:968:MET:CE	1.91	0.82
1:B:816:TYR:CE2	1:B:968:MET:CE	2.62	0.82
1:A:795:VAL:CG1	1:A:800:ARG:HH22	1.91	0.82
1:C:159:VAL:HG22	1:C:176:PHE:HE1	1.02	0.82
1:D:34:ALA:HB3	1:D:36:TRP:CZ3	2.14	0.82
1:D:10:VAL:HG11	1:D:153:TRP:CZ2	2.13	0.82
1:D:768:MET:HE2	1:D:1020:TRP:CZ3	1.94	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:73:TRP:NE1	1:A:183:ARG:NH2	2.26	0.82
1:B:73:TRP:NE1	1:B:183:ARG:NH2	2.26	0.82
1:A:37:ARG:HH12	1:A:218:PRO:HG3	1.37	0.82
1:B:546:LEU:O	1:B:549:PHE:HB2	1.80	0.82
1:C:922:LEU:O	1:C:922:LEU:HD12	1.79	0.82
1:B:795:VAL:CG1	1:B:800:ARG:HH22	1.91	0.82
1:C:795:VAL:CG1	1:C:800:ARG:HH22	1.91	0.82
1:C:780:LEU:HD11	1:C:884:LEU:HD13	1.60	0.82
1:C:34:ALA:HB3	1:C:36:TRP:CZ3	2.14	0.82
1:D:205:MET:CE	1:D:365:GLN:CG	2.50	0.82
1:D:89:ASN:ND2	1:D:205:MET:HE2	1.93	0.82
1:D:358:GLU:CB	1:D:367:MET:CE	2.57	0.82
1:C:552:TYR:OH	1:C:996:ASP:OD2	1.97	0.82
1:D:615:PRO:HB2	1:D:904:GLU:OE2	1.78	0.82
1:A:546:LEU:O	1:A:549:PHE:HB2	1.80	0.82
1:D:922:LEU:O	1:D:922:LEU:HD12	1.79	0.82
1:D:272:ALA:HB3	1:D:291:LEU:HD21	1.59	0.82
1:D:777:LEU:CD1	1:D:980:GLU:OE2	2.27	0.82
1:C:777:LEU:CD1	1:C:980:GLU:OE2	2.27	0.82
1:A:777:LEU:CD1	1:A:980:GLU:OE2	2.27	0.82
1:A:816:TYR:HE2	1:A:968:MET:CE	1.91	0.82
1:B:399:TYR:HE1	1:B:446:ARG:HH11	1.25	0.82
1:D:795:VAL:CG1	1:D:800:ARG:HH22	1.91	0.82
1:C:358:GLU:CB	1:C:367:MET:CE	2.57	0.82
1:D:552:TYR:OH	1:D:996:ASP:OD2	1.97	0.82
1:B:626:PHE:C	1:B:641:GLU:HB2	1.99	0.82
1:B:777:LEU:CD1	1:B:980:GLU:OE2	2.27	0.82
1:D:780:LEU:HD11	1:D:884:LEU:HD13	1.60	0.82
1:C:768:MET:HE2	1:C:1020:TRP:CZ3	1.94	0.82
1:C:372:MET:O	1:C:376:ILE:HG13	1.80	0.82
1:A:626:PHE:C	1:A:641:GLU:HB2	1.99	0.82
1:A:399:TYR:HE1	1:A:446:ARG:HH11	1.25	0.82
1:C:746:ASP:OD2	1:C:757:GLN:HG2	1.80	0.82
1:D:746:ASP:OD2	1:D:757:GLN:HG2	1.80	0.82
1:C:358:GLU:HA	1:C:367:MET:HE1	1.59	0.82
1:B:30:HIS:HE2	1:B:33:PHE:HE1	1.23	0.82
1:C:10:VAL:HG11	1:C:153:TRP:CZ2	2.13	0.82
1:C:556:PHE:CD1	1:C:564:GLY:CA	2.61	0.82
1:D:556:PHE:CD1	1:D:564:GLY:CA	2.61	0.82
1:C:615:PRO:HB2	1:C:904:GLU:OE2	1.78	0.82
1:D:372:MET:O	1:D:376:ILE:HG13	1.80	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:159:VAL:CG2	1:D:176:PHE:HE1	1.73	0.82
1:A:155:ASN:ND2	1:A:176:PHE:O	2.13	0.82
1:B:155:ASN:ND2	1:B:176:PHE:O	2.13	0.82
1:B:823:LEU:HG	1:B:839:ALA:O	1.80	0.82
1:D:651:LEU:HD12	1:D:703:PRO:HG3	1.62	0.82
1:B:230:ARG:NH2	1:B:241:GLU:OE2	2.12	0.82
1:D:107:ILE:HD12	1:D:108:THR:O	1.79	0.82
1:C:617:LEU:O	1:C:617:LEU:HD23	1.79	0.82
1:D:516:PRO:HB2	1:D:518:TRP:CZ2	2.14	0.82
1:D:230:ARG:NH2	1:D:241:GLU:OE2	2.12	0.82
1:C:516:PRO:HB2	1:C:518:TRP:CZ2	2.14	0.82
1:A:823:LEU:HG	1:A:839:ALA:O	1.80	0.82
1:C:721:ARG:HH21	1:D:874:SER:HB2	1.45	0.82
1:C:651:LEU:HD12	1:C:703:PRO:HG3	1.62	0.82
1:C:107:ILE:HD12	1:C:108:THR:O	1.79	0.82
1:B:10:VAL:HG11	1:B:153:TRP:CZ2	2.13	0.82
1:D:203:TRP:HH2	1:D:589:GLY:O	1.63	0.82
1:D:617:LEU:HD23	1:D:617:LEU:O	1.79	0.82
1:C:626:PHE:C	1:C:641:GLU:HB2	1.99	0.82
1:C:230:ARG:NH2	1:C:241:GLU:OE2	2.12	0.82
1:D:777:LEU:HD11	1:D:980:GLU:OE2	1.80	0.82
1:C:777:LEU:HD11	1:C:980:GLU:OE2	1.80	0.82
1:C:427:THR:O	1:C:467:ASN:OD1	1.97	0.82
1:C:155:ASN:ND2	1:C:176:PHE:O	2.13	0.82
1:D:155:ASN:ND2	1:D:176:PHE:O	2.13	0.82
1:C:874:SER:HB2	1:D:721:ARG:HH21	1.45	0.82
1:A:230:ARG:NH2	1:A:241:GLU:OE2	2.12	0.82
1:C:203:TRP:HH2	1:C:589:GLY:O	1.63	0.82
1:A:440:VAL:CG1	1:A:471:LEU:HD12	2.10	0.82
1:B:440:VAL:CG1	1:B:471:LEU:HD12	2.10	0.82
1:D:427:THR:O	1:D:467:ASN:OD1	1.97	0.82
1:A:746:ASP:OD2	1:A:757:GLN:HG2	1.80	0.82
1:A:427:THR:CG2	1:A:436:MET:HE2	2.04	0.82
1:C:353:GLY:O	1:C:567:VAL:N	2.12	0.82
1:A:724:GLU:OE2	1:A:726:LEU:CD2	2.28	0.82
1:A:10:VAL:HG11	1:A:153:TRP:CZ2	2.13	0.82
1:D:626:PHE:C	1:D:641:GLU:HB2	1.99	0.82
1:B:746:ASP:OD2	1:B:757:GLN:HG2	1.80	0.81
1:A:427:THR:O	1:A:467:ASN:OD1	1.97	0.81
1:D:353:GLY:O	1:D:567:VAL:N	2.12	0.81
1:C:874:SER:H	1:D:724:GLU:CB	1.93	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:724:GLU:OE2	1:B:726:LEU:CD2	2.28	0.81
1:B:358:GLU:CB	1:B:367:MET:CE	2.57	0.81
1:A:922:LEU:HD12	1:A:922:LEU:O	1.79	0.81
1:D:908:ASP:OD1	1:D:1007:PHE:HE1	1.61	0.81
1:B:456:TRP:HE1	1:B:482:ARG:HD2	1.43	0.81
1:B:779:PRO:HG2	1:B:781:ARG:NH1	1.93	0.81
1:C:724:GLU:CB	1:D:874:SER:H	1.93	0.81
1:D:91:GLN:CG	1:D:190:ARG:HH21	1.92	0.81
1:C:89:ASN:ND2	1:C:205:MET:HE2	1.94	0.81
1:A:358:GLU:CB	1:A:367:MET:CE	2.57	0.81
1:B:905:ASN:HD22	1:B:913:ALA:CB	1.93	0.81
1:C:546:LEU:O	1:C:549:PHE:HB2	1.80	0.81
1:A:601:PHE:CZ	1:A:998:SER:HB3	2.15	0.81
1:B:922:LEU:O	1:B:922:LEU:HD12	1.79	0.81
1:C:908:ASP:OD1	1:C:1007:PHE:HE1	1.61	0.81
1:C:337:ILE:HD11	1:C:483:PRO:CB	2.10	0.81
1:D:337:ILE:HD11	1:D:483:PRO:CB	2.10	0.81
1:A:779:PRO:HG2	1:A:781:ARG:NH1	1.93	0.81
1:B:427:THR:O	1:B:467:ASN:OD1	1.97	0.81
1:C:246:MET:SD	1:C:250:LEU:CD2	2.68	0.81
1:D:246:MET:SD	1:D:250:LEU:CD2	2.68	0.81
1:A:970:THR:CB	1:A:976:LEU:CD2	2.57	0.81
1:B:246:MET:SD	1:B:250:LEU:CD2	2.68	0.81
1:C:657:ALA:HA	1:C:662:PRO:CA	2.03	0.81
1:C:7:LEU:CD1	1:C:74:LEU:CD1	2.58	0.81
1:C:91:GLN:CG	1:C:190:ARG:HH21	1.92	0.81
1:A:651:LEU:HD12	1:A:703:PRO:HG3	1.62	0.81
1:A:905:ASN:HD22	1:A:913:ALA:CB	1.93	0.81
1:D:546:LEU:O	1:D:549:PHE:HB2	1.80	0.81
1:B:601:PHE:CZ	1:B:998:SER:HB3	2.16	0.81
1:C:777:LEU:HD11	1:C:980:GLU:OE1	1.80	0.81
1:B:317:THR:N	1:B:321:THR:O	2.09	0.81
1:A:771:GLY:CA	1:A:772:ASP:HB2	2.10	0.81
1:B:970:THR:CB	1:B:976:LEU:CD2	2.57	0.81
1:A:246:MET:SD	1:A:250:LEU:CD2	2.68	0.81
1:D:7:LEU:CD1	1:D:74:LEU:CD1	2.58	0.81
1:A:91:GLN:CD	1:A:96:ASP:HB2	2.00	0.81
1:B:552:TYR:OH	1:B:996:ASP:OD2	1.97	0.81
1:A:552:TYR:OH	1:A:996:ASP:OD2	1.97	0.81
1:D:626:PHE:CA	1:D:641:GLU:CB	2.58	0.81
1:C:626:PHE:CA	1:C:641:GLU:CB	2.58	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:456:TRP:HE1	1:A:482:ARG:HD2	1.43	0.81
1:D:740:LEU:HD12	1:D:740:LEU:O	1.79	0.81
1:D:777:LEU:HD11	1:D:980:GLU:OE1	1.80	0.81
1:B:655:MET:HE3	1:B:699:ARG:HH12	1.41	0.81
1:A:317:THR:N	1:A:321:THR:O	2.09	0.81
1:B:771:GLY:CA	1:B:772:ASP:HB2	2.10	0.81
1:C:7:LEU:CD2	1:C:71:GLU:HA	2.09	0.81
1:A:417:THR:HG23	1:A:420:MET:HG3	1.62	0.81
1:B:417:THR:HG23	1:B:420:MET:HG3	1.62	0.81
1:A:167:LEU:HD11	1:A:442:ARG:HB3	1.61	0.81
1:C:487:GLU:HG3	1:C:502:MET:HE3	1.61	0.81
1:C:440:VAL:HG21	1:C:471:LEU:HD12	1.60	0.81
1:D:655:MET:HE3	1:D:699:ARG:HH12	1.43	0.81
1:D:771:GLY:CA	1:D:772:ASP:HB2	2.10	0.81
1:D:823:LEU:CG	1:D:839:ALA:CB	2.57	0.81
1:D:657:ALA:HA	1:D:662:PRO:CA	2.03	0.81
1:C:724:GLU:OE2	1:C:726:LEU:CD2	2.28	0.81
1:A:4:THR:HG23	1:D:12:GLN:HE21	1.44	0.81
1:D:7:LEU:CD2	1:D:71:GLU:HA	2.09	0.81
1:B:280:ASP:HB3	1:C:515:VAL:HG23	1.61	0.81
1:B:91:GLN:CD	1:B:96:ASP:HB2	2.00	0.81
1:B:626:PHE:CA	1:B:641:GLU:CB	2.58	0.81
1:A:626:PHE:CA	1:A:641:GLU:CB	2.58	0.81
1:C:440:VAL:CG1	1:C:471:LEU:HD12	2.10	0.81
1:C:771:GLY:CA	1:C:772:ASP:HB2	2.10	0.81
1:C:823:LEU:CG	1:C:839:ALA:CB	2.57	0.81
1:A:280:ASP:HB3	1:D:515:VAL:HG23	1.60	0.81
1:D:603:MET:CE	1:D:930:VAL:HG21	2.07	0.81
1:B:167:LEU:HD11	1:B:442:ARG:HB3	1.61	0.81
1:C:740:LEU:HD12	1:C:740:LEU:O	1.79	0.81
1:C:747:PHE:CE2	1:C:827:ALA:HB3	2.09	0.81
1:D:724:GLU:OE2	1:D:726:LEU:CD2	2.28	0.81
1:A:111:PRO:N	1:A:196:TYR:HE2	1.79	0.81
1:B:203:TRP:HH2	1:B:589:GLY:O	1.63	0.81
1:D:601:PHE:CZ	1:D:998:SER:HB3	2.15	0.81
1:A:203:TRP:HH2	1:A:589:GLY:O	1.63	0.81
1:C:301:TRP:HD1	1:C:306:PRO:O	1.63	0.81
1:D:898:LEU:CD2	1:D:915:PHE:CZ	2.63	0.81
1:D:440:VAL:CG1	1:D:471:LEU:HD12	2.10	0.81
1:D:440:VAL:HG21	1:D:471:LEU:HD12	1.60	0.81
1:C:786:ARG:CD	1:C:880:ALA:HB1	2.11	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:747:PHE:CE2	1:D:827:ALA:HB3	2.09	0.81
1:B:246:MET:HB3	1:B:274:PHE:CZ	2.16	0.81
1:A:246:MET:HB3	1:A:274:PHE:CZ	2.16	0.81
1:D:199:ASP:OD2	1:D:419:GLY:N	2.14	0.81
1:C:199:ASP:OD2	1:C:419:GLY:N	2.14	0.81
1:C:603:MET:CE	1:C:930:VAL:HG21	2.07	0.81
1:B:111:PRO:N	1:B:196:TYR:HE2	1.79	0.81
1:C:601:PHE:CZ	1:C:998:SER:HB3	2.15	0.81
1:C:608:PHE:O	1:C:611:ARG:HB2	1.81	0.81
1:D:608:PHE:O	1:D:611:ARG:HB2	1.81	0.81
1:C:898:LEU:CD2	1:C:915:PHE:CZ	2.63	0.81
1:A:337:ILE:HD11	1:A:483:PRO:CB	2.10	0.81
1:D:786:ARG:CD	1:D:880:ALA:HB1	2.11	0.81
1:D:433:LEU:CD1	1:D:467:ASN:HD22	1.94	0.81
1:C:884:LEU:HD12	1:C:884:LEU:O	1.81	0.81
1:A:509:ASP:HB3	1:A:518:TRP:CA	2.11	0.81
1:D:769:TRP:CZ3	1:D:774:LYS:CG	2.64	0.81
1:C:167:LEU:HD11	1:C:442:ARG:HB3	1.61	0.81
1:D:167:LEU:HD11	1:D:442:ARG:HB3	1.61	0.81
1:B:337:ILE:HD11	1:B:483:PRO:CB	2.10	0.81
1:C:433:LEU:CD1	1:C:467:ASN:HD22	1.94	0.80
1:D:884:LEU:HD12	1:D:884:LEU:O	1.82	0.80
1:D:823:LEU:HG	1:D:839:ALA:O	1.80	0.80
1:B:4:THR:HG23	1:C:12:GLN:HE21	1.44	0.80
1:C:769:TRP:CZ3	1:C:774:LYS:CG	2.64	0.80
1:D:301:TRP:HD1	1:D:306:PRO:O	1.63	0.80
1:D:974:HIS:NE2	1:D:975:LEU:HD21	1.92	0.80
1:A:874:SER:H	1:B:724:GLU:CB	1.94	0.80
1:B:748:CYS:SG	1:B:755:ARG:NH1	2.55	0.80
1:A:748:CYS:SG	1:A:755:ARG:NH1	2.55	0.80
1:D:608:PHE:N	1:D:612:THR:O	2.14	0.80
1:B:509:ASP:HB3	1:B:518:TRP:CA	2.11	0.80
1:C:246:MET:HB3	1:C:274:PHE:CZ	2.16	0.80
1:C:974:HIS:NE2	1:C:975:LEU:HD21	1.92	0.80
1:A:390:SER:OG	1:A:391:HIS:CE1	2.35	0.80
1:C:608:PHE:N	1:C:612:THR:O	2.14	0.80
1:D:509:ASP:HB3	1:D:518:TRP:CA	2.11	0.80
1:C:509:ASP:HB3	1:C:518:TRP:CA	2.11	0.80
1:A:887:GLN:OE1	1:A:983:TRP:CE2	2.34	0.80
1:B:657:ALA:HB2	1:B:662:PRO:CB	2.12	0.80
1:A:874:SER:HB2	1:B:721:ARG:HH21	1.44	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:657:ALA:HB2	1:A:662:PRO:CB	2.12	0.80
1:A:724:GLU:CB	1:B:874:SER:H	1.94	0.80
1:B:390:SER:OG	1:B:391:HIS:CE1	2.35	0.80
1:B:898:LEU:CD2	1:B:915:PHE:CZ	2.63	0.80
1:B:887:GLN:OE1	1:B:983:TRP:CE2	2.34	0.80
1:B:372:MET:O	1:B:376:ILE:HG13	1.80	0.80
1:D:246:MET:HB3	1:D:274:PHE:CZ	2.16	0.80
1:C:823:LEU:HG	1:C:839:ALA:O	1.80	0.80
1:A:721:ARG:HH21	1:B:874:SER:HB2	1.44	0.80
1:D:487:GLU:HG3	1:D:502:MET:HE3	1.63	0.80
1:B:433:LEU:CD1	1:B:467:ASN:HD22	1.94	0.80
1:A:349:LEU:HD22	1:A:351:ILE:HG12	1.57	0.80
1:B:205:MET:HE2	1:B:365:GLN:HG2	1.60	0.80
1:B:656:VAL:HG21	1:B:685:LEU:CD2	2.12	0.80
1:A:898:LEU:CD2	1:A:915:PHE:CZ	2.63	0.80
1:B:777:LEU:HD11	1:B:980:GLU:OE1	1.80	0.80
1:D:277:GLU:OE2	1:D:290:THR:HB	1.82	0.80
1:C:277:GLU:OE2	1:C:290:THR:HB	1.82	0.80
1:B:884:LEU:O	1:B:884:LEU:HD12	1.81	0.80
1:A:42:ALA:HB1	1:A:327:ALA:HB2	1.64	0.80
1:B:654:TRP:CD2	1:B:666:GLY:HA3	2.17	0.80
1:A:654:TRP:CD2	1:A:666:GLY:HA3	2.17	0.80
1:A:723:ALA:CB	1:B:875:ASP:CG	2.48	0.80
1:D:104:THR:HG22	1:D:105:TYR:O	1.82	0.80
1:D:54:LEU:HD12	1:D:212:VAL:HG12	1.64	0.80
1:C:104:THR:HG22	1:C:105:TYR:O	1.82	0.80
1:A:572:ASP:HA	1:A:603:MET:O	1.82	0.80
1:A:92:MET:HE3	1:A:92:MET:HA	1.63	0.80
1:B:572:ASP:HA	1:B:603:MET:O	1.82	0.80
1:A:608:PHE:O	1:A:611:ARG:HB2	1.81	0.80
1:A:372:MET:O	1:A:376:ILE:HG13	1.80	0.80
1:A:884:LEU:HD12	1:A:884:LEU:O	1.82	0.80
1:C:42:ALA:HB1	1:C:327:ALA:HB2	1.64	0.80
1:B:42:ALA:HB1	1:B:327:ALA:HB2	1.64	0.80
1:A:654:TRP:CZ2	1:A:666:GLY:CA	2.63	0.80
1:D:657:ALA:HB2	1:D:662:PRO:CB	2.12	0.80
1:D:573:GLN:H	1:D:603:MET:HA	1.47	0.80
1:A:7:LEU:CD1	1:A:74:LEU:CD1	2.58	0.80
1:A:656:VAL:HG21	1:A:685:LEU:CD2	2.12	0.80
1:A:777:LEU:HD11	1:A:980:GLU:OE1	1.80	0.80
1:A:433:LEU:CD1	1:A:467:ASN:HD22	1.94	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:42:ALA:HB1	1:D:327:ALA:HB2	1.64	0.80
1:C:657:ALA:HB2	1:C:662:PRO:CB	2.12	0.80
1:C:54:LEU:HD12	1:C:212:VAL:HG12	1.64	0.80
1:C:573:GLN:H	1:C:603:MET:HA	1.47	0.80
1:B:769:TRP:CZ3	1:B:774:LYS:CG	2.64	0.80
1:D:905:ASN:HD22	1:D:913:ALA:CB	1.93	0.80
1:A:608:PHE:N	1:A:612:THR:O	2.14	0.80
1:A:875:ASP:CG	1:B:723:ALA:CB	2.48	0.80
1:D:887:GLN:OE1	1:D:983:TRP:CE2	2.34	0.80
1:C:887:GLN:OE1	1:C:983:TRP:CE2	2.34	0.80
1:A:140:ARG:HH21	1:A:217:LYS:HG3	1.44	0.80
1:B:654:TRP:CZ2	1:B:666:GLY:CA	2.63	0.80
1:A:106:PRO:HG2	1:A:191:TRP:CZ3	2.17	0.80
1:B:106:PRO:HG2	1:B:191:TRP:CZ3	2.17	0.80
1:B:199:ASP:OD2	1:B:419:GLY:N	2.14	0.80
1:B:7:LEU:CD1	1:B:74:LEU:CD1	2.58	0.80
1:A:769:TRP:CZ3	1:A:774:LYS:CG	2.64	0.80
1:D:102:ASN:O	1:D:201:ASP:HB3	1.81	0.80
1:C:905:ASN:HD22	1:C:913:ALA:CB	1.93	0.80
1:B:608:PHE:O	1:B:611:ARG:HB2	1.82	0.80
1:A:777:LEU:HD11	1:A:980:GLU:CD	2.02	0.80
1:B:277:GLU:OE2	1:B:290:THR:HB	1.82	0.80
1:A:277:GLU:OE2	1:A:290:THR:HB	1.82	0.80
1:A:427:THR:HA	1:A:436:MET:HE3	0.80	0.79
1:B:140:ARG:HH21	1:B:217:LYS:HG3	1.44	0.79
1:D:111:PRO:N	1:D:196:TYR:HE2	1.79	0.79
1:C:106:PRO:HG2	1:C:191:TRP:CZ3	2.16	0.79
1:A:199:ASP:OD2	1:A:419:GLY:N	2.14	0.79
1:D:341:LEU:HD22	1:D:563:GLN:NE2	1.97	0.79
1:C:599:ARG:CG	1:C:600:GLN:H	1.94	0.79
1:B:608:PHE:N	1:B:612:THR:O	2.14	0.79
1:B:629:PHE:CD2	1:B:638:VAL:HG22	2.18	0.79
1:D:224:ASP:OD2	1:D:226:HIS:NE2	2.15	0.79
1:D:657:ALA:CB	1:D:662:PRO:CA	2.60	0.79
1:D:106:PRO:HG2	1:D:191:TRP:CZ3	2.16	0.79
1:D:54:LEU:CD1	1:D:214:LEU:HD11	2.10	0.79
1:C:111:PRO:N	1:C:196:TYR:HE2	1.79	0.79
1:C:54:LEU:HG	1:C:214:LEU:CD1	2.11	0.79
1:C:102:ASN:O	1:C:201:ASP:HB3	1.81	0.79
1:A:237:ARG:CG	1:A:296:GLU:HG3	2.11	0.79
1:B:237:ARG:CG	1:B:296:GLU:HG3	2.11	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:54:LEU:CD1	1:A:214:LEU:HD11	2.10	0.79
1:B:786:ARG:CD	1:B:880:ALA:HB1	2.11	0.79
1:A:786:ARG:CD	1:A:880:ALA:HB1	2.11	0.79
1:A:629:PHE:CD2	1:A:638:VAL:HG22	2.18	0.79
1:C:224:ASP:OD2	1:C:226:HIS:NE2	2.15	0.79
1:D:652:LEU:CD2	1:D:680:ILE:HD13	2.12	0.79
1:B:652:LEU:CD2	1:B:680:ILE:HD13	2.12	0.79
1:C:657:ALA:CB	1:C:662:PRO:CA	2.61	0.79
1:D:390:SER:OG	1:D:391:HIS:CE1	2.35	0.79
1:D:54:LEU:HG	1:D:214:LEU:CD1	2.11	0.79
1:C:54:LEU:CD1	1:C:214:LEU:HD11	2.10	0.79
1:B:91:GLN:CG	1:B:190:ARG:HH21	1.92	0.79
1:B:110:ASN:N	1:B:196:TYR:OH	2.15	0.79
1:B:205:MET:HE1	1:B:365:GLN:CG	2.05	0.79
1:B:341:LEU:HD22	1:B:563:GLN:NE2	1.97	0.79
1:C:341:LEU:HD22	1:C:563:GLN:NE2	1.97	0.79
1:D:599:ARG:CG	1:D:600:GLN:H	1.94	0.79
1:B:54:LEU:CD1	1:B:214:LEU:HD11	2.10	0.79
1:B:777:LEU:HD11	1:B:980:GLU:CD	2.02	0.79
1:A:652:LEU:CD2	1:A:680:ILE:HD13	2.12	0.79
1:A:657:ALA:CB	1:A:662:PRO:HA	2.13	0.79
1:A:110:ASN:N	1:A:196:TYR:OH	2.15	0.79
1:A:573:GLN:H	1:A:603:MET:HA	1.47	0.79
1:A:341:LEU:HD22	1:A:563:GLN:NE2	1.97	0.79
1:B:54:LEU:CD1	1:B:214:LEU:CD1	2.61	0.79
1:A:54:LEU:CD1	1:A:214:LEU:CD1	2.61	0.79
1:C:777:LEU:HD11	1:C:980:GLU:CD	2.02	0.79
1:C:652:LEU:CD2	1:C:680:ILE:HD13	2.12	0.79
1:B:657:ALA:CB	1:B:662:PRO:HA	2.13	0.79
1:D:54:LEU:CD1	1:D:214:LEU:CD1	2.61	0.79
1:B:573:GLN:H	1:B:603:MET:HA	1.47	0.79
1:B:92:MET:HE3	1:B:92:MET:HA	1.64	0.79
1:A:440:VAL:CG1	1:A:471:LEU:CD1	2.60	0.79
1:B:440:VAL:CG1	1:B:471:LEU:CD1	2.60	0.79
1:D:777:LEU:HD11	1:D:980:GLU:CD	2.02	0.79
1:B:30:HIS:CD2	1:B:33:PHE:HZ	2.00	0.79
1:C:54:LEU:CD1	1:C:214:LEU:CD1	2.61	0.79
1:C:390:SER:OG	1:C:391:HIS:CE1	2.35	0.79
1:C:417:THR:HG23	1:C:420:MET:HG3	1.62	0.79
1:B:54:LEU:HD12	1:B:212:VAL:HG12	1.64	0.79
1:B:54:LEU:HG	1:B:214:LEU:CD1	2.11	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:54:LEU:HG	1:A:214:LEU:CD1	2.11	0.79
1:D:657:ALA:CB	1:D:662:PRO:HA	2.13	0.79
1:D:417:THR:HG23	1:D:420:MET:HG3	1.62	0.79
1:B:102:ASN:O	1:B:201:ASP:HB3	1.81	0.79
1:A:54:LEU:HD12	1:A:212:VAL:HG12	1.64	0.79
1:D:63:PHE:CD2	1:D:69:VAL:HA	2.17	0.79
1:D:629:PHE:CD2	1:D:638:VAL:HG22	2.18	0.79
1:C:629:PHE:CD2	1:C:638:VAL:HG22	2.18	0.79
1:A:30:HIS:CD2	1:A:33:PHE:HZ	2.00	0.79
1:A:91:GLN:CG	1:A:190:ARG:HH21	1.92	0.79
1:A:7:LEU:CD2	1:A:71:GLU:HA	2.09	0.79
1:B:104:THR:HG22	1:B:105:TYR:O	1.82	0.79
1:B:7:LEU:CD2	1:B:71:GLU:HA	2.09	0.79
1:B:599:ARG:CG	1:B:600:GLN:H	1.94	0.79
1:A:102:ASN:O	1:A:201:ASP:HB3	1.81	0.79
1:A:599:ARG:CG	1:A:600:GLN:H	1.94	0.79
1:C:63:PHE:CD2	1:C:69:VAL:HA	2.17	0.79
1:C:657:ALA:CB	1:C:662:PRO:HA	2.13	0.79
1:A:101:THR:HG21	1:A:104:THR:O	1.83	0.79
1:A:417:THR:HG21	1:A:420:MET:HG3	1.65	0.79
1:A:63:PHE:CD2	1:A:69:VAL:HA	2.17	0.79
1:A:770:ILE:O	1:A:773:LYS:N	2.16	0.79
1:C:572:ASP:HA	1:C:603:MET:O	1.82	0.79
1:A:104:THR:HG22	1:A:105:TYR:O	1.82	0.79
1:B:101:THR:HG21	1:B:104:THR:O	1.83	0.79
1:B:417:THR:HG21	1:B:420:MET:HG3	1.65	0.79
1:B:102:ASN:HB3	1:B:598:ASP:OD1	1.83	0.79
1:B:503:TYR:CE2	1:B:537:GLU:OE1	2.35	0.79
1:D:37:ARG:HH12	1:D:218:PRO:HG3	1.37	0.79
1:C:656:VAL:HG21	1:C:685:LEU:CD2	2.12	0.79
1:D:440:VAL:CG1	1:D:471:LEU:CD1	2.60	0.79
1:C:440:VAL:CG1	1:C:471:LEU:CD1	2.60	0.79
1:A:854:LYS:CD	1:A:856:TYR:OH	2.31	0.79
1:B:854:LYS:CD	1:B:856:TYR:OH	2.31	0.79
1:B:63:PHE:CD2	1:B:69:VAL:HA	2.17	0.79
1:B:906:TYR:OH	1:B:934:GLU:OE2	2.00	0.79
1:C:99:ILE:HD13	1:C:106:PRO:HB2	1.64	0.78
1:C:748:CYS:SG	1:C:755:ARG:NH1	2.55	0.78
1:A:22:THR:C	1:A:163:GLN:HB2	2.04	0.78
1:A:503:TYR:CE2	1:A:537:GLU:OE1	2.35	0.78
1:D:656:VAL:HG21	1:D:685:LEU:CD2	2.12	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:723:ALA:CB	1:D:875:ASP:CG	2.48	0.78
1:B:777:LEU:HD11	1:B:980:GLU:OE2	1.80	0.78
1:A:906:TYR:OH	1:A:934:GLU:OE2	2.00	0.78
1:B:770:ILE:O	1:B:773:LYS:N	2.16	0.78
1:D:101:THR:HG21	1:D:104:THR:O	1.83	0.78
1:D:748:CYS:SG	1:D:755:ARG:NH1	2.55	0.78
1:A:102:ASN:HB3	1:A:598:ASP:OD1	1.83	0.78
1:A:777:LEU:HD11	1:A:980:GLU:OE2	1.80	0.78
1:D:99:ILE:HD13	1:D:106:PRO:HB2	1.64	0.78
1:D:572:ASP:HA	1:D:603:MET:O	1.82	0.78
1:C:101:THR:HG21	1:C:104:THR:O	1.83	0.78
1:D:22:THR:C	1:D:163:GLN:HB2	2.04	0.78
1:A:577:LYS:HD3	1:A:585:TRP:CH2	2.18	0.78
1:A:657:ALA:HA	1:A:662:PRO:CA	2.03	0.78
1:C:22:THR:C	1:C:163:GLN:HB2	2.04	0.78
1:D:577:LYS:HD3	1:D:585:TRP:CH2	2.18	0.78
1:C:577:LYS:HD3	1:C:585:TRP:CH2	2.18	0.78
1:B:577:LYS:HD3	1:B:585:TRP:CH2	2.18	0.78
1:C:875:ASP:CG	1:D:723:ALA:CB	2.48	0.78
1:D:654:TRP:CD2	1:D:666:GLY:HA3	2.17	0.78
1:C:654:TRP:CD2	1:C:666:GLY:HA3	2.17	0.78
1:B:657:ALA:CB	1:B:662:PRO:CA	2.61	0.78
1:A:723:ALA:HB2	1:B:875:ASP:OD2	1.84	0.78
1:A:438:GLU:O	1:A:442:ARG:HB2	1.84	0.78
1:D:503:TYR:CE2	1:D:537:GLU:OE1	2.35	0.78
1:C:403:ASP:OD1	1:C:452:SER:CB	2.30	0.78
1:D:403:ASP:OD1	1:D:452:SER:CB	2.30	0.78
1:D:854:LYS:CD	1:D:856:TYR:OH	2.32	0.78
1:A:916:ASP:OD1	1:A:917:ARG:N	2.17	0.78
1:B:916:ASP:OD1	1:B:917:ARG:N	2.17	0.78
1:A:657:ALA:CB	1:A:662:PRO:CA	2.61	0.78
1:C:110:ASN:N	1:C:196:TYR:OH	2.15	0.78
1:B:438:GLU:O	1:B:442:ARG:HB2	1.84	0.78
1:C:503:TYR:CE2	1:C:537:GLU:OE1	2.35	0.78
1:C:854:LYS:CD	1:C:856:TYR:OH	2.31	0.78
1:C:37:ARG:HH12	1:C:218:PRO:HG3	1.37	0.78
1:B:830:LEU:N	1:B:833:ALA:O	2.17	0.78
1:D:110:ASN:N	1:D:196:TYR:OH	2.15	0.78
1:B:768:MET:CE	1:B:1020:TRP:CH2	2.66	0.78
1:A:830:LEU:N	1:A:833:ALA:O	2.17	0.78
1:C:30:HIS:HD2	1:C:33:PHE:CZ	1.98	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:88:SER:OG	1:D:93:HIS:HE1	1.67	0.78
1:C:88:SER:OG	1:C:93:HIS:HE1	1.67	0.78
1:D:358:GLU:HA	1:D:367:MET:HE1	1.65	0.78
1:A:768:MET:CE	1:A:1020:TRP:CH2	2.66	0.78
1:C:438:GLU:O	1:C:442:ARG:HB2	1.84	0.78
1:D:438:GLU:O	1:D:442:ARG:HB2	1.84	0.78
1:C:823:LEU:HG	1:C:839:ALA:C	2.04	0.78
1:B:251:ARG:HH11	1:B:251:ARG:HG3	1.48	0.78
1:A:875:ASP:OD2	1:B:723:ALA:HB2	1.84	0.78
1:C:916:ASP:OD1	1:C:917:ARG:N	2.17	0.78
1:D:916:ASP:OD1	1:D:917:ARG:N	2.17	0.78
1:B:823:LEU:HG	1:B:839:ALA:C	2.04	0.77
1:D:823:LEU:HG	1:D:839:ALA:C	2.04	0.77
1:B:100:TYR:CE2	1:B:602:CYS:CB	2.61	0.77
1:B:301:TRP:HD1	1:B:306:PRO:O	1.63	0.77
1:A:251:ARG:HG3	1:A:251:ARG:HH11	1.48	0.77
1:B:768:MET:HE1	1:B:1020:TRP:CE3	2.16	0.77
1:A:306:PRO:HG2	1:A:404:ARG:O	1.84	0.77
1:A:823:LEU:CD1	1:A:839:ALA:HB1	2.05	0.77
1:C:256:VAL:HG22	1:C:315:LEU:HD13	1.66	0.77
1:D:256:VAL:HG22	1:D:315:LEU:HD13	1.66	0.77
1:D:111:PRO:CB	1:D:196:TYR:CD2	2.60	0.77
1:B:99:ILE:HD13	1:B:106:PRO:HB2	1.64	0.77
1:B:306:PRO:HG2	1:B:404:ARG:O	1.84	0.77
1:D:30:HIS:HD2	1:D:33:PHE:CZ	1.98	0.77
1:A:100:TYR:CE2	1:A:602:CYS:CB	2.61	0.77
1:A:89:ASN:ND2	1:A:205:MET:HE2	1.99	0.77
1:A:768:MET:HE3	1:A:1020:TRP:CE3	2.16	0.77
1:C:102:ASN:HB3	1:C:598:ASP:OD1	1.83	0.77
1:A:301:TRP:HD1	1:A:306:PRO:O	1.63	0.77
1:C:906:TYR:OH	1:C:934:GLU:OE2	2.00	0.77
1:A:217:LYS:HD2	1:A:221:GLN:CG	2.13	0.77
1:D:102:ASN:HB3	1:D:598:ASP:OD1	1.83	0.77
1:C:944:LEU:HD22	1:C:957:PHE:CG	2.20	0.77
1:D:944:LEU:HD22	1:D:957:PHE:CG	2.19	0.77
1:D:906:TYR:OH	1:D:934:GLU:OE2	2.00	0.77
1:D:770:ILE:O	1:D:773:LYS:N	2.16	0.77
1:C:770:ILE:O	1:C:773:LYS:N	2.16	0.77
1:A:99:ILE:HD13	1:A:106:PRO:HB2	1.64	0.77
1:C:705:ALA:HB2	1:C:710:GLU:C	2.05	0.77
1:D:705:ALA:HB2	1:D:710:GLU:C	2.05	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:579:ASP:OD2	1:C:583:ASN:OD1	2.03	0.77
1:C:433:LEU:HB2	1:C:467:ASN:HD21	1.49	0.77
1:D:654:TRP:CZ2	1:D:666:GLY:CA	2.63	0.77
1:C:970:THR:HG21	1:C:976:LEU:HD23	1.65	0.77
1:C:783:GLN:HE21	1:C:881:ARG:HD2	1.48	0.77
1:D:579:ASP:OD2	1:D:583:ASN:OD1	2.03	0.77
1:C:429:ASP:OD1	1:C:430:PRO:CD	2.31	0.77
1:C:427:THR:HG21	1:C:468:HIS:CE1	2.20	0.77
1:C:358:GLU:HG3	1:C:367:MET:HE3	0.77	0.77
1:B:823:LEU:CD1	1:B:839:ALA:HB1	2.06	0.77
1:A:823:LEU:HG	1:A:839:ALA:C	2.04	0.77
1:B:970:THR:HB	1:B:976:LEU:HD21	1.67	0.77
1:B:256:VAL:HG22	1:B:315:LEU:HD13	1.66	0.77
1:C:417:THR:HG21	1:C:420:MET:HG3	1.65	0.77
1:A:651:LEU:HD11	1:A:703:PRO:CG	2.12	0.77
1:D:429:ASP:OD1	1:D:430:PRO:CD	2.31	0.77
1:D:427:THR:HG22	1:D:436:MET:HE1	1.54	0.77
1:D:427:THR:HG21	1:D:468:HIS:CE1	2.20	0.77
1:C:654:TRP:CZ2	1:C:666:GLY:CA	2.63	0.77
1:D:970:THR:HG21	1:D:976:LEU:HD23	1.65	0.77
1:A:970:THR:HG21	1:A:976:LEU:HD23	1.65	0.77
1:A:970:THR:HB	1:A:976:LEU:HD21	1.67	0.77
1:D:60:PHE:CD1	1:D:123:TYR:CE1	2.73	0.77
1:C:60:PHE:CD1	1:C:123:TYR:CE1	2.73	0.77
1:D:783:GLN:HE21	1:D:881:ARG:HD2	1.48	0.77
1:D:306:PRO:HG2	1:D:404:ARG:O	1.84	0.77
1:A:440:VAL:HG21	1:A:471:LEU:CD1	2.15	0.77
1:B:440:VAL:HG21	1:B:471:LEU:CD1	2.15	0.77
1:C:272:ALA:HB2	1:C:291:LEU:HD21	1.53	0.77
1:B:944:LEU:HD22	1:B:957:PHE:CG	2.19	0.77
1:D:746:ASP:OD1	1:D:747:PHE:N	2.18	0.77
1:D:349:LEU:HD22	1:D:351:ILE:HG12	1.57	0.77
1:D:251:ARG:HH11	1:D:251:ARG:HG3	1.48	0.77
1:A:256:VAL:HG22	1:A:315:LEU:HD13	1.66	0.77
1:D:417:THR:HG21	1:D:420:MET:HG3	1.65	0.77
1:B:651:LEU:HD11	1:B:703:PRO:CG	2.12	0.77
1:A:944:LEU:HD22	1:A:957:PHE:CG	2.19	0.77
1:D:433:LEU:HB2	1:D:467:ASN:HD21	1.49	0.76
1:C:746:ASP:OD1	1:C:747:PHE:N	2.18	0.76
1:C:970:THR:HB	1:C:976:LEU:HD21	1.66	0.76
1:B:970:THR:HG21	1:B:976:LEU:HD23	1.65	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:651:LEU:HD11	1:D:703:PRO:CG	2.12	0.76
1:D:205:MET:HE1	1:D:365:GLN:CG	2.05	0.76
1:C:205:MET:HE1	1:C:365:GLN:CG	2.06	0.76
1:A:875:ASP:HB2	1:B:723:ALA:HB1	1.67	0.76
1:D:901:GLY:HA3	1:D:918:TRP:NE1	2.00	0.76
1:C:251:ARG:HH11	1:C:251:ARG:HG3	1.48	0.76
1:D:970:THR:HB	1:D:976:LEU:HD21	1.67	0.76
1:C:651:LEU:HD11	1:C:703:PRO:CG	2.12	0.76
1:A:723:ALA:HB1	1:B:875:ASP:HB2	1.67	0.76
1:A:900:LEU:HG	1:A:939:CYS:O	1.84	0.76
1:C:306:PRO:HG2	1:C:404:ARG:O	1.84	0.76
1:C:901:GLY:HA3	1:C:918:TRP:NE1	2.00	0.76
1:C:349:LEU:HD22	1:C:351:ILE:HG12	1.57	0.76
1:C:970:THR:HG21	1:C:976:LEU:CD2	2.15	0.76
1:A:60:PHE:CD1	1:A:123:TYR:CE1	2.73	0.76
1:C:900:LEU:HG	1:C:939:CYS:O	1.84	0.76
1:D:900:LEU:HG	1:D:939:CYS:O	1.84	0.76
1:D:440:VAL:HG21	1:D:471:LEU:CD1	2.15	0.76
1:B:637:GLU:HG3	1:B:679:LEU:CD2	2.15	0.76
1:D:706:THR:CG2	1:D:708:TRP:NE1	2.49	0.76
1:C:706:THR:CG2	1:C:708:TRP:NE1	2.49	0.76
1:A:603:MET:CE	1:A:930:VAL:HG21	2.07	0.76
1:B:60:PHE:CD1	1:B:123:TYR:CE1	2.73	0.76
1:B:603:MET:CE	1:B:930:VAL:HG21	2.07	0.76
1:B:900:LEU:HG	1:B:939:CYS:O	1.84	0.76
1:B:619:GLU:HA	1:B:912:ALA:HB2	1.67	0.76
1:C:440:VAL:HG21	1:C:471:LEU:CD1	2.15	0.76
1:A:233:ASP:OD2	1:C:233:ASP:OD2	2.02	0.76
1:D:970:THR:HG21	1:D:976:LEU:CD2	2.15	0.76
1:A:224:ASP:OD2	1:A:226:HIS:NE2	2.15	0.76
1:B:88:SER:OG	1:B:93:HIS:HE1	1.67	0.76
1:A:783:GLN:HE21	1:A:881:ARG:HD2	1.48	0.76
1:C:237:ARG:CG	1:C:296:GLU:HG3	2.11	0.76
1:D:237:ARG:CG	1:D:296:GLU:HG3	2.11	0.76
1:A:637:GLU:HG3	1:A:679:LEU:CD2	2.15	0.76
1:A:306:PRO:CG	1:A:404:ARG:O	2.34	0.76
1:B:306:PRO:CG	1:B:404:ARG:O	2.34	0.76
1:B:746:ASP:OD1	1:B:747:PHE:N	2.18	0.76
1:A:619:GLU:HA	1:A:912:ALA:HB2	1.67	0.76
1:C:875:ASP:OD2	1:D:723:ALA:HB2	1.83	0.76
1:A:737:ILE:CD1	1:A:831:ALA:O	2.34	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:737:ILE:CD1	1:B:831:ALA:O	2.34	0.76
1:B:233:ASP:OD2	1:D:233:ASP:OD2	2.02	0.76
1:C:746:ASP:OD1	1:C:758:PHE:O	2.04	0.76
1:D:830:LEU:N	1:D:833:ALA:O	2.17	0.76
1:D:746:ASP:OD1	1:D:758:PHE:O	2.04	0.76
1:B:974:HIS:NE2	1:B:975:LEU:HD23	1.95	0.76
1:B:224:ASP:OD2	1:B:226:HIS:NE2	2.15	0.76
1:A:88:SER:OG	1:A:93:HIS:HE1	1.67	0.76
1:A:705:ALA:HB2	1:A:710:GLU:C	2.05	0.76
1:A:746:ASP:OD1	1:A:747:PHE:N	2.18	0.76
1:B:970:THR:HG21	1:B:976:LEU:CD2	2.15	0.76
1:A:970:THR:HG21	1:A:976:LEU:CD2	2.15	0.76
1:A:974:HIS:NE2	1:A:975:LEU:HD23	1.95	0.76
1:D:54:LEU:HD21	1:D:214:LEU:CD1	2.16	0.76
1:B:358:GLU:HA	1:B:367:MET:HE1	1.66	0.76
1:C:768:MET:CE	1:C:1020:TRP:CH2	2.66	0.76
1:B:783:GLN:HE21	1:B:881:ARG:HD2	1.48	0.76
1:B:705:ALA:HB2	1:B:710:GLU:C	2.05	0.76
1:C:830:LEU:N	1:C:833:ALA:O	2.17	0.76
1:A:427:THR:HG21	1:A:468:HIS:CE1	2.20	0.76
1:D:111:PRO:CA	1:D:196:TYR:HE2	1.91	0.76
1:C:54:LEU:HD21	1:C:214:LEU:CD1	2.16	0.76
1:A:656:VAL:HG21	1:A:685:LEU:HD22	1.67	0.76
1:C:723:ALA:HB2	1:D:875:ASP:OD2	1.83	0.76
1:B:54:LEU:HD21	1:B:214:LEU:CD1	2.16	0.76
1:B:234:ASP:O	1:B:235:PHE:HB2	1.86	0.76
1:A:901:GLY:HA3	1:A:918:TRP:NE1	2.00	0.76
1:B:901:GLY:HA3	1:B:918:TRP:NE1	2.00	0.76
1:C:251:ARG:O	1:C:254:LEU:HG	1.86	0.76
1:C:769:TRP:CZ3	1:C:774:LYS:HG3	2.20	0.76
1:D:768:MET:CE	1:D:1020:TRP:CH2	2.66	0.76
1:C:37:ARG:HH21	1:C:50:GLN:HG2	1.50	0.76
1:B:454:ILE:HG13	1:B:455:ILE:HG13	1.67	0.76
1:C:875:ASP:HB2	1:D:723:ALA:HB1	1.66	0.76
1:A:54:LEU:HD21	1:A:214:LEU:CD1	2.16	0.76
1:C:637:GLU:HG3	1:C:679:LEU:CD2	2.15	0.76
1:B:655:MET:CE	1:B:699:ARG:HH12	1.99	0.76
1:B:427:THR:HG21	1:B:468:HIS:CE1	2.20	0.75
1:D:769:TRP:CZ3	1:D:774:LYS:HG3	2.20	0.75
1:C:541:ALA:HA	1:C:545:SER:CB	2.17	0.75
1:B:656:VAL:HG21	1:B:685:LEU:HD22	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:655:MET:CE	1:A:699:ARG:HH12	1.99	0.75
1:A:234:ASP:O	1:A:235:PHE:HB2	1.86	0.75
1:D:987:ASP:OD2	1:D:989:PHE:O	2.04	0.75
1:A:433:LEU:HD13	1:A:467:ASN:HD22	1.51	0.75
1:B:433:LEU:HD13	1:B:467:ASN:HD22	1.51	0.75
1:B:974:HIS:CD2	1:B:975:LEU:HD23	2.21	0.75
1:A:974:HIS:CD2	1:A:975:LEU:HD23	2.21	0.75
1:B:272:ALA:HB2	1:B:291:LEU:HD23	1.68	0.75
1:D:106:PRO:CG	1:D:191:TRP:HH2	1.81	0.75
1:B:996:ASP:H	1:B:1002:SER:HB2	1.52	0.75
1:D:541:ALA:HA	1:D:545:SER:CB	2.17	0.75
1:B:694:LEU:HB3	1:B:722:LEU:CB	2.15	0.75
1:D:626:PHE:O	1:D:641:GLU:CB	2.32	0.75
1:C:626:PHE:O	1:C:641:GLU:CB	2.32	0.75
1:A:454:ILE:HG13	1:A:455:ILE:HG13	1.67	0.75
1:C:694:LEU:HB3	1:C:722:LEU:CB	2.15	0.75
1:C:723:ALA:HB1	1:D:875:ASP:HB2	1.66	0.75
1:C:737:ILE:CD1	1:C:831:ALA:O	2.34	0.75
1:D:737:ILE:CD1	1:D:831:ALA:O	2.34	0.75
1:C:987:ASP:OD2	1:C:989:PHE:O	2.04	0.75
1:D:251:ARG:O	1:D:254:LEU:HG	1.86	0.75
1:C:974:HIS:CD2	1:C:975:LEU:HD23	2.21	0.75
1:B:30:HIS:HD2	1:B:33:PHE:CZ	1.98	0.75
1:A:272:ALA:HB2	1:A:291:LEU:HD23	1.68	0.75
1:D:59:ARG:CZ	1:D:81:ALA:O	2.34	0.75
1:C:111:PRO:CA	1:C:196:TYR:HE2	1.91	0.75
1:C:59:ARG:CZ	1:C:81:ALA:O	2.34	0.75
1:A:417:THR:CG2	1:A:420:MET:CG	2.64	0.75
1:B:421:VAL:O	1:B:425:ARG:NH2	2.19	0.75
1:A:996:ASP:H	1:A:1002:SER:HB2	1.52	0.75
1:D:619:GLU:HA	1:D:912:ALA:HB2	1.67	0.75
1:D:37:ARG:HH21	1:D:50:GLN:HG2	1.51	0.75
1:C:306:PRO:CG	1:C:404:ARG:O	2.34	0.75
1:D:306:PRO:CG	1:D:404:ARG:O	2.34	0.75
1:A:694:LEU:HB3	1:A:722:LEU:CB	2.15	0.75
1:A:898:LEU:HD22	1:A:942:ARG:HB2	1.68	0.75
1:B:898:LEU:HD22	1:B:942:ARG:HB2	1.68	0.75
1:D:637:GLU:HG3	1:D:679:LEU:CD2	2.15	0.75
1:A:433:LEU:HB2	1:A:467:ASN:HD21	1.49	0.75
1:D:91:GLN:CD	1:D:190:ARG:NH2	2.40	0.75
1:C:91:GLN:CD	1:C:190:ARG:NH2	2.40	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:417:THR:CG2	1:B:420:MET:CG	2.64	0.75
1:C:619:GLU:HA	1:C:912:ALA:HB2	1.67	0.75
1:B:579:ASP:OD2	1:B:583:ASN:OD1	2.03	0.75
1:D:694:LEU:HB3	1:D:722:LEU:CB	2.15	0.75
1:D:272:ALA:HB2	1:D:291:LEU:HD23	1.68	0.75
1:C:823:LEU:CG	1:C:839:ALA:HB1	2.17	0.75
1:D:974:HIS:CD2	1:D:975:LEU:HD23	2.21	0.75
1:A:30:HIS:HD2	1:A:33:PHE:CZ	1.98	0.75
1:A:421:VAL:O	1:A:425:ARG:NH2	2.19	0.75
1:B:418:HIS:HE1	1:B:461:GLU:CD	1.90	0.75
1:B:22:THR:C	1:B:163:GLN:HB2	2.04	0.75
1:A:579:ASP:OD2	1:A:583:ASN:OD1	2.03	0.75
1:D:898:LEU:HD22	1:D:942:ARG:HB2	1.68	0.75
1:C:898:LEU:HD22	1:C:942:ARG:HB2	1.68	0.75
1:B:987:ASP:OD2	1:B:989:PHE:O	2.04	0.75
1:C:758:PHE:CD1	1:C:765:LEU:CB	2.58	0.75
1:D:823:LEU:CG	1:D:839:ALA:HB1	2.17	0.75
1:D:341:LEU:HD21	1:D:560:PRO:O	1.86	0.75
1:C:272:ALA:HB2	1:C:291:LEU:HD23	1.68	0.75
1:A:987:ASP:OD2	1:A:989:PHE:O	2.04	0.75
1:A:254:LEU:C	1:A:255:ARG:HD3	2.07	0.75
1:C:106:PRO:CG	1:C:191:TRP:HH2	1.81	0.75
1:A:341:LEU:HD21	1:A:560:PRO:O	1.86	0.75
1:C:767:GLN:OE1	1:C:768:MET:N	2.20	0.75
1:C:341:LEU:HD21	1:C:560:PRO:O	1.86	0.75
1:B:37:ARG:HH21	1:B:50:GLN:HG2	1.50	0.75
1:B:430:PRO:HG3	1:C:445:GLN:HE22	1.52	0.75
1:D:454:ILE:HG13	1:D:455:ILE:HG13	1.67	0.75
1:C:454:ILE:HG13	1:C:455:ILE:HG13	1.67	0.75
1:C:786:ARG:HD3	1:C:880:ALA:CB	2.17	0.75
1:A:178:ARG:NH2	1:A:182:ASN:HA	2.02	0.75
1:B:178:ARG:NH2	1:B:182:ASN:HA	2.02	0.75
1:B:433:LEU:HB2	1:B:467:ASN:HD21	1.49	0.75
1:D:254:LEU:C	1:D:255:ARG:HD3	2.07	0.75
1:B:254:LEU:C	1:B:255:ARG:HD3	2.07	0.75
1:A:280:ASP:HB2	1:D:515:VAL:HG22	1.68	0.75
1:D:105:TYR:OH	1:D:420:MET:CG	2.35	0.75
1:B:91:GLN:CD	1:B:190:ARG:NH2	2.40	0.75
1:B:341:LEU:HD21	1:B:560:PRO:O	1.86	0.75
1:D:767:GLN:OE1	1:D:768:MET:N	2.20	0.75
1:D:786:ARG:HD3	1:D:880:ALA:CB	2.17	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:254:LEU:C	1:C:255:ARG:HD3	2.07	0.75
1:B:256:VAL:CG2	1:B:274:PHE:CE1	2.70	0.75
1:A:251:ARG:O	1:A:254:LEU:HG	1.86	0.75
1:B:280:ASP:HB2	1:C:515:VAL:HG22	1.68	0.75
1:A:418:HIS:HE1	1:A:461:GLU:CD	1.90	0.75
1:A:541:ALA:HA	1:A:545:SER:CB	2.17	0.75
1:A:430:PRO:HG3	1:D:445:GLN:HE22	1.52	0.75
1:C:234:ASP:O	1:C:235:PHE:HB2	1.86	0.75
1:D:758:PHE:CD1	1:D:765:LEU:CB	2.58	0.74
1:A:746:ASP:OD1	1:A:758:PHE:O	2.04	0.74
1:A:256:VAL:CG2	1:A:274:PHE:CE1	2.70	0.74
1:A:91:GLN:CD	1:A:190:ARG:NH2	2.40	0.74
1:B:59:ARG:CZ	1:B:81:ALA:O	2.34	0.74
1:B:541:ALA:HA	1:B:545:SER:CB	2.17	0.74
1:B:375:ASP:O	1:B:379:MET:HG3	1.87	0.74
1:D:929:TYR:O	1:D:973:ARG:CB	2.35	0.74
1:A:1009:LEU:N	1:A:1009:LEU:HD23	2.02	0.74
1:D:234:ASP:O	1:D:235:PHE:HB2	1.86	0.74
1:B:746:ASP:OD1	1:B:758:PHE:O	2.04	0.74
1:B:251:ARG:O	1:B:254:LEU:HG	1.86	0.74
1:D:421:VAL:O	1:D:425:ARG:NH2	2.19	0.74
1:C:421:VAL:O	1:C:425:ARG:NH2	2.19	0.74
1:A:59:ARG:CZ	1:A:81:ALA:O	2.34	0.74
1:D:541:ALA:HA	1:D:545:SER:HB2	1.69	0.74
1:A:37:ARG:HH21	1:A:50:GLN:HG2	1.51	0.74
1:A:541:ALA:HA	1:A:545:SER:HB2	1.69	0.74
1:A:541:ALA:CB	1:A:606:LEU:HD12	2.18	0.74
1:A:375:ASP:O	1:A:379:MET:HG3	1.87	0.74
1:D:656:VAL:HG21	1:D:685:LEU:HD22	1.67	0.74
1:B:189:LEU:HD23	1:B:189:LEU:N	2.02	0.74
1:C:929:TYR:O	1:C:973:ARG:CB	2.35	0.74
1:B:1009:LEU:HD23	1:B:1009:LEU:N	2.02	0.74
1:B:541:ALA:HA	1:B:545:SER:HB2	1.69	0.74
1:B:541:ALA:CB	1:B:606:LEU:HD12	2.18	0.74
1:C:541:ALA:HA	1:C:545:SER:HB2	1.69	0.74
1:A:788:PRO:CA	1:A:792:ASP:OD2	2.35	0.74
1:A:626:PHE:CA	1:A:641:GLU:HB3	2.17	0.74
1:C:656:VAL:HG21	1:C:685:LEU:HD22	1.67	0.74
1:B:706:THR:CG2	1:B:708:TRP:NE1	2.49	0.74
1:D:256:VAL:CG2	1:D:274:PHE:CE1	2.70	0.74
1:A:99:ILE:HD13	1:A:106:PRO:HB3	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:788:PRO:CA	1:B:792:ASP:OD2	2.35	0.74
1:B:626:PHE:CA	1:B:641:GLU:HB3	2.18	0.74
1:A:189:LEU:N	1:A:189:LEU:HD23	2.02	0.74
1:C:256:VAL:CG2	1:C:274:PHE:CE1	2.70	0.74
1:C:100:TYR:OH	1:C:602:CYS:HA	1.88	0.74
1:D:100:TYR:CE2	1:D:602:CYS:CB	2.61	0.74
1:B:99:ILE:HD13	1:B:106:PRO:HB3	1.69	0.74
1:A:706:THR:CG2	1:A:708:TRP:NE1	2.49	0.74
1:C:655:MET:CE	1:C:699:ARG:HH12	1.99	0.74
1:D:178:ARG:NH2	1:D:182:ASN:HA	2.02	0.74
1:C:359:HIS:N	1:C:367:MET:CE	2.45	0.74
1:D:100:TYR:OH	1:D:602:CYS:HA	1.88	0.74
1:A:101:THR:CG2	1:A:104:THR:O	2.35	0.74
1:B:101:THR:CG2	1:B:104:THR:O	2.35	0.74
1:D:545:SER:O	1:D:546:LEU:HB2	1.88	0.74
1:C:545:SER:O	1:C:546:LEU:HB2	1.88	0.74
1:A:694:LEU:CB	1:A:722:LEU:HB2	2.18	0.74
1:B:694:LEU:CB	1:B:722:LEU:HB2	2.18	0.74
1:D:694:LEU:CB	1:D:722:LEU:HB2	2.18	0.74
1:C:694:LEU:CB	1:C:722:LEU:HB2	2.18	0.74
1:A:2:MET:SD	1:A:3:ILE:O	2.45	0.74
1:A:810:TRP:CH2	1:A:880:ALA:HB2	2.22	0.74
1:B:823:LEU:CG	1:B:839:ALA:HB1	2.17	0.74
1:C:100:TYR:CE2	1:C:602:CYS:CB	2.61	0.74
1:C:788:PRO:CA	1:C:792:ASP:OD2	2.35	0.74
1:A:612:THR:CG2	1:A:613:PRO:HD2	2.17	0.74
1:B:2:MET:SD	1:B:3:ILE:O	2.45	0.74
1:A:816:TYR:HE2	1:A:968:MET:HE1	1.47	0.74
1:B:786:ARG:HD3	1:B:880:ALA:HB1	1.68	0.74
1:B:810:TRP:CH2	1:B:880:ALA:HB2	2.23	0.74
1:C:178:ARG:NH2	1:C:182:ASN:HA	2.02	0.74
1:D:742:THR:HG22	1:D:760:ARG:NH2	2.02	0.74
1:A:823:LEU:CG	1:A:839:ALA:HB1	2.17	0.74
1:D:788:PRO:CA	1:D:792:ASP:OD2	2.35	0.74
1:A:445:GLN:HE22	1:D:430:PRO:HG3	1.53	0.74
1:D:188:VAL:C	1:D:189:LEU:HD23	2.08	0.74
1:B:372:MET:CE	1:B:397:LEU:HD23	2.18	0.74
1:C:952:ARG:NH2	1:C:952:ARG:HG3	2.02	0.74
1:D:952:ARG:HG3	1:D:952:ARG:NH2	2.02	0.74
1:C:742:THR:HG22	1:C:760:ARG:NH2	2.02	0.74
1:D:101:THR:CG2	1:D:104:THR:O	2.35	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:359:HIS:N	1:D:367:MET:CE	2.45	0.74
1:A:515:VAL:HG22	1:D:280:ASP:HB2	1.66	0.74
1:A:748:CYS:C	1:A:749:ILE:HD12	2.08	0.74
1:B:503:TYR:CD1	1:B:999:TRP:HZ2	2.05	0.74
1:B:612:THR:CG2	1:B:613:PRO:HD2	2.18	0.74
1:B:445:GLN:HE22	1:C:430:PRO:HG3	1.53	0.74
1:A:372:MET:CE	1:A:397:LEU:HD23	2.18	0.74
1:B:816:TYR:HE2	1:B:968:MET:HE1	1.47	0.74
1:C:810:TRP:CH2	1:C:880:ALA:HB2	2.22	0.74
1:D:433:LEU:HD13	1:D:467:ASN:HD22	1.51	0.74
1:C:101:THR:CG2	1:C:104:THR:O	2.35	0.74
1:A:105:TYR:OH	1:A:420:MET:CG	2.35	0.74
1:B:111:PRO:CA	1:B:196:TYR:HE2	1.91	0.74
1:C:768:MET:HE1	1:C:1020:TRP:CE3	2.11	0.74
1:C:769:TRP:CZ3	1:C:774:LYS:N	2.43	0.74
1:D:748:CYS:C	1:D:749:ILE:HD12	2.08	0.74
1:A:503:TYR:CD1	1:A:999:TRP:HZ2	2.06	0.74
1:D:2:MET:SD	1:D:3:ILE:O	2.45	0.74
1:B:786:ARG:HD3	1:B:880:ALA:CB	2.17	0.74
1:A:786:ARG:HD3	1:A:880:ALA:CB	2.17	0.74
1:A:786:ARG:HD3	1:A:880:ALA:HB1	1.69	0.74
1:D:810:TRP:CH2	1:D:880:ALA:HB2	2.22	0.74
1:B:882:ILE:O	1:B:987:ASP:OD1	2.06	0.74
1:C:758:PHE:HD1	1:C:765:LEU:HB3	1.48	0.73
1:C:417:THR:CG2	1:C:420:MET:CG	2.64	0.73
1:B:105:TYR:OH	1:B:420:MET:CG	2.35	0.73
1:A:358:GLU:HA	1:A:367:MET:HE1	1.69	0.73
1:B:748:CYS:C	1:B:749:ILE:HD12	2.08	0.73
1:C:102:ASN:HA	1:C:201:ASP:HB2	1.69	0.73
1:B:102:ASN:HA	1:B:201:ASP:HB2	1.69	0.73
1:D:541:ALA:CB	1:D:606:LEU:HD12	2.17	0.73
1:D:387:VAL:CG1	1:D:407:LEU:HD21	2.18	0.73
1:C:387:VAL:CG1	1:C:407:LEU:HD21	2.18	0.73
1:C:786:ARG:HD3	1:C:880:ALA:HB1	1.68	0.73
1:D:786:ARG:HD3	1:D:880:ALA:HB1	1.69	0.73
1:D:882:ILE:O	1:D:987:ASP:OD1	2.06	0.73
1:C:882:ILE:O	1:C:987:ASP:OD1	2.06	0.73
1:C:433:LEU:HD13	1:C:467:ASN:HD22	1.51	0.73
1:D:217:LYS:HD2	1:D:221:GLN:CG	2.13	0.73
1:D:17:GLU:CD	1:D:114:VAL:HG22	2.09	0.73
1:D:17:GLU:OE2	1:D:114:VAL:HG22	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:769:TRP:CZ3	1:D:774:LYS:N	2.43	0.73
1:C:372:MET:CE	1:C:397:LEU:HD23	2.18	0.73
1:D:372:MET:CE	1:D:397:LEU:HD23	2.18	0.73
1:C:188:VAL:C	1:C:189:LEU:HD23	2.08	0.73
1:C:2:MET:SD	1:C:3:ILE:O	2.45	0.73
1:A:882:ILE:O	1:A:987:ASP:OD1	2.06	0.73
1:A:590:GLY:H	1:A:597:ASN:HB2	1.53	0.73
1:D:30:HIS:CD2	1:D:33:PHE:CE2	2.76	0.73
1:D:417:THR:CG2	1:D:420:MET:CG	2.64	0.73
1:C:17:GLU:CD	1:C:114:VAL:HG22	2.09	0.73
1:B:651:LEU:HD12	1:B:703:PRO:HG3	1.62	0.73
1:B:515:VAL:HG22	1:C:280:ASP:HB2	1.67	0.73
1:C:748:CYS:C	1:C:749:ILE:HD12	2.08	0.73
1:D:102:ASN:HA	1:D:201:ASP:HB2	1.69	0.73
1:B:545:SER:O	1:B:546:LEU:HB2	1.88	0.73
1:C:355:ASN:ND2	1:C:568:TRP:HE3	1.83	0.73
1:C:541:ALA:CB	1:C:606:LEU:HD12	2.18	0.73
1:D:521:LYS:HG2	1:D:559:TYR:CZ	2.24	0.73
1:C:521:LYS:HG2	1:C:559:TYR:CZ	2.24	0.73
1:B:590:GLY:H	1:B:597:ASN:HB2	1.53	0.73
1:B:1022:GLN:NE2	1:B:1022:GLN:HA	2.03	0.73
1:A:1022:GLN:HA	1:A:1022:GLN:NE2	2.03	0.73
1:C:427:THR:HA	1:C:436:MET:HE3	0.75	0.73
1:A:776:LEU:HD12	1:A:776:LEU:O	1.88	0.73
1:C:217:LYS:HD2	1:C:221:GLN:CG	2.13	0.73
1:C:30:HIS:CD2	1:C:33:PHE:CE2	2.76	0.73
1:D:92:MET:CE	1:D:92:MET:HA	2.18	0.73
1:C:17:GLU:OE2	1:C:114:VAL:HG22	1.88	0.73
1:C:92:MET:HA	1:C:92:MET:CE	2.18	0.73
1:A:111:PRO:N	1:A:196:TYR:CE2	2.56	0.73
1:B:769:TRP:CZ3	1:B:774:LYS:CA	2.71	0.73
1:D:768:MET:HE1	1:D:1020:TRP:CE3	2.11	0.73
1:D:996:ASP:H	1:D:1002:SER:HB2	1.52	0.73
1:A:102:ASN:HA	1:A:201:ASP:HB2	1.69	0.73
1:A:545:SER:O	1:A:546:LEU:HB2	1.88	0.73
1:C:427:THR:CG2	1:C:436:MET:HE2	2.11	0.73
1:D:99:ILE:HD13	1:D:106:PRO:HB3	1.69	0.73
1:A:17:GLU:CD	1:A:114:VAL:HG22	2.09	0.73
1:B:17:GLU:CD	1:B:114:VAL:HG22	2.09	0.73
1:B:111:PRO:N	1:B:196:TYR:CE2	2.56	0.73
1:A:769:TRP:CZ3	1:A:774:LYS:CA	2.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:769:TRP:CZ3	1:C:774:LYS:CA	2.71	0.73
1:D:769:TRP:CZ3	1:D:774:LYS:CA	2.71	0.73
1:D:503:TYR:CD1	1:D:999:TRP:HZ2	2.05	0.73
1:C:503:TYR:CD1	1:C:999:TRP:HZ2	2.06	0.73
1:B:570:TRP:O	1:B:607:VAL:HG22	1.89	0.73
1:D:612:THR:CG2	1:D:613:PRO:HD2	2.18	0.73
1:D:444:VAL:O	1:D:448:ARG:HB3	1.89	0.73
1:C:655:MET:HE3	1:C:699:ARG:HH12	1.52	0.73
1:C:1022:GLN:HA	1:C:1022:GLN:NE2	2.03	0.73
1:D:1022:GLN:HA	1:D:1022:GLN:NE2	2.03	0.73
1:B:776:LEU:HD12	1:B:776:LEU:O	1.88	0.73
1:B:30:HIS:CD2	1:B:33:PHE:CE2	2.76	0.73
1:D:17:GLU:OE2	1:D:114:VAL:CG2	2.37	0.73
1:A:767:GLN:OE1	1:A:768:MET:N	2.20	0.73
1:C:996:ASP:H	1:C:1002:SER:HB2	1.52	0.73
1:C:619:GLU:HG2	1:C:909:ARG:CG	2.18	0.73
1:A:570:TRP:O	1:A:607:VAL:HG22	1.89	0.73
1:C:612:THR:CG2	1:C:613:PRO:HD2	2.18	0.73
1:B:188:VAL:C	1:B:189:LEU:HD23	2.08	0.73
1:A:188:VAL:C	1:A:189:LEU:HD23	2.08	0.73
1:C:444:VAL:O	1:C:448:ARG:HB3	1.89	0.73
1:D:655:MET:CE	1:D:699:ARG:HH12	1.99	0.73
1:D:901:GLY:HA3	1:D:918:TRP:CD1	2.24	0.73
1:C:901:GLY:HA3	1:C:918:TRP:CD1	2.24	0.73
1:C:590:GLY:H	1:C:597:ASN:HB2	1.53	0.73
1:D:590:GLY:H	1:D:597:ASN:HB2	1.53	0.73
1:D:758:PHE:HD1	1:D:765:LEU:HB3	1.48	0.73
1:A:30:HIS:CD2	1:A:33:PHE:CE2	2.76	0.73
1:D:418:HIS:HE1	1:D:461:GLU:CD	1.90	0.73
1:C:17:GLU:OE2	1:C:114:VAL:CG2	2.37	0.73
1:B:515:VAL:HG21	1:C:280:ASP:HB2	1.67	0.73
1:D:355:ASN:ND2	1:D:568:TRP:HE3	1.83	0.73
1:D:619:GLU:HG2	1:D:909:ARG:CG	2.19	0.73
1:A:387:VAL:CG1	1:A:407:LEU:HD21	2.18	0.73
1:B:387:VAL:CG1	1:B:407:LEU:HD21	2.18	0.73
1:C:375:ASP:O	1:C:379:MET:HG3	1.87	0.73
1:D:375:ASP:O	1:D:379:MET:HG3	1.87	0.73
1:C:626:PHE:CA	1:C:641:GLU:HB3	2.17	0.73
1:D:498:ILE:CG2	1:D:532:PRO:HG2	2.19	0.73
1:C:498:ILE:CG2	1:C:532:PRO:HG2	2.19	0.73
1:C:99:ILE:HD13	1:C:106:PRO:HB3	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:17:GLU:OE2	1:B:114:VAL:HG22	1.88	0.73
1:B:767:GLN:OE1	1:B:768:MET:N	2.20	0.73
1:D:626:PHE:CA	1:D:641:GLU:HB3	2.17	0.73
1:B:408:TYR:HB3	1:B:454:ILE:HD13	1.71	0.73
1:B:901:GLY:HA3	1:B:918:TRP:CD1	2.24	0.73
1:B:100:TYR:OH	1:B:602:CYS:HA	1.88	0.73
1:A:17:GLU:OE2	1:A:114:VAL:HG22	1.88	0.73
1:A:521:LYS:HG2	1:A:559:TYR:CZ	2.24	0.73
1:A:408:TYR:HB3	1:A:454:ILE:HD13	1.71	0.73
1:B:521:LYS:HG2	1:B:559:TYR:CZ	2.24	0.73
1:C:337:ILE:HD11	1:C:483:PRO:CG	2.19	0.73
1:D:337:ILE:HD11	1:D:483:PRO:CG	2.19	0.73
1:B:337:ILE:HD11	1:B:483:PRO:CG	2.19	0.73
1:A:901:GLY:HA3	1:A:918:TRP:CD1	2.24	0.73
1:B:878:HIS:CE1	1:B:1010:SER:HB3	2.24	0.73
1:A:878:HIS:CE1	1:A:1010:SER:HB3	2.24	0.73
1:C:776:LEU:O	1:C:776:LEU:HD12	1.88	0.73
1:B:217:LYS:HD2	1:B:221:GLN:CG	2.13	0.73
1:D:541:ALA:HB2	1:D:606:LEU:HD12	1.71	0.73
1:B:429:ASP:OD1	1:B:430:PRO:CD	2.31	0.73
1:C:1009:LEU:N	1:C:1009:LEU:HD23	2.02	0.73
1:A:515:VAL:HG21	1:D:280:ASP:HB2	1.67	0.72
1:B:92:MET:CE	1:B:92:MET:HA	2.18	0.72
1:C:552:TYR:O	1:C:556:PHE:CD2	2.42	0.72
1:D:552:TYR:O	1:D:556:PHE:CD2	2.42	0.72
1:C:541:ALA:HB2	1:C:606:LEU:HD12	1.71	0.72
1:A:429:ASP:OD1	1:A:430:PRO:CD	2.31	0.72
1:A:337:ILE:HD11	1:A:483:PRO:CG	2.19	0.72
1:D:776:LEU:O	1:D:776:LEU:HD12	1.88	0.72
1:A:100:TYR:OH	1:A:602:CYS:HA	1.88	0.72
1:A:654:TRP:O	1:A:666:GLY:N	2.18	0.72
1:C:418:HIS:HE1	1:C:461:GLU:CD	1.90	0.72
1:B:487:GLU:HG3	1:B:502:MET:HE3	1.71	0.72
1:A:487:GLU:HG3	1:A:502:MET:HE3	1.71	0.72
1:D:570:TRP:O	1:D:607:VAL:HG22	1.89	0.72
1:D:1009:LEU:N	1:D:1009:LEU:HD23	2.02	0.72
1:C:570:TRP:O	1:C:607:VAL:HG22	1.89	0.72
1:A:530:THR:CA	1:A:561:ARG:NH2	2.53	0.72
1:A:941:THR:HG21	1:A:957:PHE:HE2	1.54	0.72
1:B:349:LEU:HD22	1:B:351:ILE:HG12	1.57	0.72
1:B:654:TRP:O	1:B:666:GLY:N	2.18	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:85:VAL:O	1:C:88:SER:HB3	1.89	0.72
1:A:92:MET:CE	1:A:92:MET:HA	2.18	0.72
1:B:552:TYR:O	1:B:556:PHE:CD2	2.42	0.72
1:A:552:TYR:O	1:A:556:PHE:CD2	2.42	0.72
1:B:619:GLU:HG2	1:B:909:ARG:CG	2.18	0.72
1:B:530:THR:CA	1:B:561:ARG:NH2	2.53	0.72
1:D:530:THR:CA	1:D:561:ARG:NH2	2.53	0.72
1:C:844:HIS:CD2	1:C:845:GLN:HG2	2.25	0.72
1:D:825:CYS:O	1:D:826:THR:HG22	1.90	0.72
1:C:825:CYS:O	1:C:826:THR:HG22	1.90	0.72
1:A:769:TRP:CZ3	1:A:774:LYS:HG3	2.20	0.72
1:A:167:LEU:CD1	1:A:442:ARG:CB	2.62	0.72
1:C:530:THR:CA	1:C:561:ARG:NH2	2.53	0.72
1:D:333:ARG:HG2	1:D:333:ARG:NH1	2.04	0.72
1:B:941:THR:HG21	1:B:957:PHE:HE2	1.54	0.72
1:D:844:HIS:CD2	1:D:845:GLN:HG2	2.25	0.72
1:C:878:HIS:CE1	1:C:1010:SER:HB3	2.24	0.72
1:A:844:HIS:CD2	1:A:845:GLN:HG2	2.25	0.72
1:D:85:VAL:O	1:D:88:SER:HB3	1.90	0.72
1:A:85:VAL:O	1:A:88:SER:HB3	1.90	0.72
1:B:769:TRP:CZ3	1:B:774:LYS:HG3	2.20	0.72
1:A:355:ASN:ND2	1:A:568:TRP:HE3	1.83	0.72
1:A:619:GLU:HG2	1:A:909:ARG:CG	2.18	0.72
1:C:382:ASN:OD1	1:C:617:LEU:HD21	1.89	0.72
1:C:40:GLU:O	1:C:44:THR:HG23	1.90	0.72
1:C:333:ARG:HG2	1:C:333:ARG:NH1	2.04	0.72
1:B:844:HIS:CD2	1:B:845:GLN:HG2	2.25	0.72
1:D:878:HIS:CE1	1:D:1010:SER:HB3	2.24	0.72
1:B:85:VAL:O	1:B:88:SER:HB3	1.90	0.72
1:A:359:HIS:N	1:A:367:MET:CE	2.45	0.72
1:B:890:GLN:NE2	1:B:948:PRO:HD2	2.05	0.72
1:A:22:THR:O	1:A:163:GLN:HB3	1.88	0.72
1:D:382:ASN:OD1	1:D:617:LEU:HD21	1.88	0.72
1:D:189:LEU:HD23	1:D:189:LEU:N	2.02	0.72
1:A:54:LEU:HG	1:A:214:LEU:HD13	1.71	0.72
1:D:40:GLU:O	1:D:44:THR:HG23	1.90	0.72
1:D:636:ILE:HG22	1:D:680:ILE:O	1.89	0.72
1:C:636:ILE:HG22	1:C:680:ILE:O	1.88	0.72
1:B:225:PHE:CD1	1:B:313:VAL:HG21	2.25	0.72
1:A:17:GLU:OE2	1:A:114:VAL:CG2	2.37	0.72
1:A:890:GLN:NE2	1:A:948:PRO:HD2	2.05	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:167:LEU:CD1	1:B:442:ARG:CB	2.62	0.72
1:D:387:VAL:HG11	1:D:407:LEU:HD21	1.71	0.72
1:C:836:ILE:HD13	1:C:836:ILE:N	2.03	0.72
1:D:836:ILE:HD13	1:D:836:ILE:N	2.03	0.72
1:C:941:THR:HG21	1:C:957:PHE:HE2	1.54	0.72
1:D:629:PHE:HB3	1:D:720:TRP:HH2	1.55	0.72
1:A:225:PHE:CD1	1:A:313:VAL:HG21	2.25	0.72
1:B:17:GLU:OE2	1:B:114:VAL:CG2	2.37	0.72
1:B:22:THR:O	1:B:163:GLN:HB3	1.88	0.72
1:A:382:ASN:OD1	1:A:617:LEU:HD21	1.89	0.72
1:B:444:VAL:O	1:B:448:ARG:HB3	1.89	0.72
1:B:54:LEU:HG	1:B:214:LEU:HD13	1.71	0.72
1:A:40:GLU:O	1:A:44:THR:HG23	1.90	0.72
1:A:542:MET:O	1:A:545:SER:OG	2.08	0.72
1:C:189:LEU:HD23	1:C:189:LEU:N	2.02	0.72
1:D:941:THR:HG21	1:D:957:PHE:HE2	1.54	0.72
1:C:629:PHE:HB3	1:C:720:TRP:HH2	1.55	0.72
1:B:830:LEU:CB	1:B:833:ALA:O	2.36	0.71
1:C:974:HIS:NE2	1:C:975:LEU:HD23	1.95	0.71
1:A:636:ILE:HG22	1:A:680:ILE:O	1.89	0.71
1:C:873:ALA:CB	1:D:724:GLU:OE1	2.38	0.71
1:C:724:GLU:OE1	1:D:873:ALA:CB	2.38	0.71
1:A:874:SER:H	1:B:724:GLU:HB3	1.55	0.71
1:A:724:GLU:HB3	1:B:874:SER:H	1.55	0.71
1:B:359:HIS:N	1:B:367:MET:CE	2.45	0.71
1:B:542:MET:O	1:B:545:SER:OG	2.08	0.71
1:B:355:ASN:ND2	1:B:568:TRP:HE3	1.83	0.71
1:C:387:VAL:HG11	1:C:407:LEU:HD21	1.71	0.71
1:B:382:ASN:OD1	1:B:617:LEU:HD21	1.89	0.71
1:A:444:VAL:O	1:A:448:ARG:HB3	1.89	0.71
1:B:530:THR:HA	1:B:561:ARG:NH2	2.05	0.71
1:B:54:LEU:CD2	1:B:214:LEU:HD13	2.20	0.71
1:B:40:GLU:O	1:B:44:THR:HG23	1.90	0.71
1:D:629:PHE:HB3	1:D:720:TRP:CH2	2.25	0.71
1:C:629:PHE:HB3	1:C:720:TRP:CH2	2.25	0.71
1:B:636:ILE:HG22	1:B:680:ILE:O	1.89	0.71
1:A:358:GLU:HA	1:A:367:MET:CE	2.18	0.71
1:C:890:GLN:NE2	1:C:948:PRO:HD2	2.05	0.71
1:D:890:GLN:NE2	1:D:948:PRO:HD2	2.05	0.71
1:D:542:MET:O	1:D:545:SER:OG	2.08	0.71
1:C:542:MET:O	1:C:545:SER:OG	2.08	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:530:THR:HA	1:A:561:ARG:NH2	2.05	0.71
1:A:54:LEU:CD2	1:A:214:LEU:HD13	2.20	0.71
1:A:929:TYR:O	1:A:973:ARG:CB	2.35	0.71
1:A:830:LEU:CB	1:A:833:ALA:O	2.36	0.71
1:D:974:HIS:NE2	1:D:975:LEU:HD23	1.95	0.71
1:D:54:LEU:CD2	1:D:214:LEU:HD13	2.20	0.71
1:C:54:LEU:CD2	1:C:214:LEU:HD13	2.20	0.71
1:B:769:TRP:CZ3	1:B:774:LYS:N	2.43	0.71
1:B:619:GLU:CG	1:B:909:ARG:HG3	2.21	0.71
1:A:619:GLU:CG	1:A:909:ARG:HG3	2.21	0.71
1:A:616:ALA:HA	1:A:909:ARG:HH11	1.55	0.71
1:B:961:ARG:HE	1:B:982:THR:HG22	1.55	0.71
1:A:961:ARG:HE	1:A:982:THR:HG22	1.55	0.71
1:C:530:THR:HA	1:C:561:ARG:NH2	2.05	0.71
1:D:530:THR:HA	1:D:561:ARG:NH2	2.05	0.71
1:B:629:PHE:HB3	1:B:720:TRP:HH2	1.55	0.71
1:C:22:THR:O	1:C:163:GLN:HB3	1.88	0.71
1:B:616:ALA:HA	1:B:909:ARG:HH11	1.55	0.71
1:A:599:ARG:HG3	1:A:600:GLN:HG2	1.72	0.71
1:C:178:ARG:HG3	1:C:178:ARG:HH11	1.56	0.71
1:C:778:THR:CG2	1:C:779:PRO:HD2	2.20	0.71
1:A:724:GLU:CB	1:B:874:SER:HG	1.93	0.71
1:D:111:PRO:N	1:D:196:TYR:CE2	2.56	0.71
1:C:111:PRO:N	1:C:196:TYR:CE2	2.57	0.71
1:B:599:ARG:HG3	1:B:600:GLN:HG2	1.72	0.71
1:B:403:ASP:OD1	1:B:452:SER:CB	2.30	0.71
1:B:929:TYR:O	1:B:973:ARG:CB	2.35	0.71
1:A:629:PHE:HB3	1:A:720:TRP:HH2	1.55	0.71
1:D:178:ARG:HG3	1:D:178:ARG:HH11	1.56	0.71
1:D:225:PHE:CD1	1:D:313:VAL:HG21	2.25	0.71
1:B:358:GLU:HA	1:B:367:MET:CE	2.18	0.71
1:A:769:TRP:CZ3	1:A:774:LYS:N	2.43	0.71
1:B:387:VAL:HG11	1:B:407:LEU:HD21	1.71	0.71
1:D:778:THR:CG2	1:D:779:PRO:HD2	2.20	0.71
1:A:778:THR:CG2	1:A:779:PRO:HD2	2.20	0.71
1:B:770:ILE:HG23	1:B:773:LYS:CB	2.20	0.71
1:C:225:PHE:CD1	1:C:313:VAL:HG21	2.25	0.71
1:A:515:VAL:HG21	1:D:281:GLU:CB	2.20	0.71
1:D:599:ARG:NE	1:D:797:GLU:OE2	2.24	0.71
1:D:22:THR:O	1:D:163:GLN:HB3	1.88	0.71
1:B:102:ASN:CB	1:B:598:ASP:OD1	2.39	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:619:GLU:CG	1:C:909:ARG:HG3	2.21	0.71
1:A:102:ASN:CB	1:A:598:ASP:OD1	2.39	0.71
1:A:403:ASP:OD1	1:A:452:SER:CB	2.30	0.71
1:D:408:TYR:HB3	1:D:454:ILE:HD13	1.71	0.71
1:C:408:TYR:HB3	1:C:454:ILE:HD13	1.71	0.71
1:B:952:ARG:NH2	1:B:952:ARG:HG3	2.02	0.71
1:D:906:TYR:CD2	1:D:993:ILE:CG2	2.74	0.71
1:B:742:THR:HG22	1:B:760:ARG:NH2	2.02	0.71
1:B:778:THR:CG2	1:B:779:PRO:HD2	2.20	0.71
1:A:770:ILE:HG23	1:A:773:LYS:CB	2.20	0.71
1:B:657:ALA:HB2	1:B:662:PRO:CA	2.21	0.71
1:A:657:ALA:HB2	1:A:662:PRO:CA	2.21	0.71
1:A:724:GLU:OE1	1:B:873:ALA:CB	2.38	0.71
1:A:205:MET:HE3	1:A:365:GLN:H	1.56	0.71
1:C:599:ARG:NE	1:C:797:GLU:OE2	2.24	0.71
1:B:22:THR:HG21	1:B:438:GLU:CG	2.19	0.71
1:C:867:THR:HG22	1:C:1017:GLN:CG	2.21	0.71
1:D:867:THR:HG22	1:D:1017:GLN:CG	2.21	0.71
1:B:906:TYR:CD2	1:B:993:ILE:CG2	2.74	0.71
1:C:906:TYR:CD2	1:C:993:ILE:CG2	2.74	0.71
1:A:275:GLY:HA2	1:A:288:ARG:O	1.91	0.71
1:B:515:VAL:HG21	1:C:281:GLU:CB	2.20	0.71
1:D:619:GLU:CG	1:D:909:ARG:HG3	2.21	0.71
1:A:952:ARG:HG3	1:A:952:ARG:NH2	2.02	0.71
1:C:816:TYR:HE2	1:C:968:MET:HE1	1.47	0.71
1:A:906:TYR:CD2	1:A:993:ILE:CG2	2.74	0.71
1:B:629:PHE:HB3	1:B:720:TRP:CH2	2.25	0.71
1:A:629:PHE:HB3	1:A:720:TRP:CH2	2.25	0.71
1:A:742:THR:HG22	1:A:760:ARG:NH2	2.02	0.71
1:B:275:GLY:HA2	1:B:288:ARG:O	1.91	0.71
1:C:874:SER:H	1:D:724:GLU:HB3	1.54	0.71
1:C:724:GLU:HB3	1:D:874:SER:H	1.54	0.71
1:A:873:ALA:CB	1:B:724:GLU:OE1	2.38	0.71
1:A:205:MET:HE1	1:A:365:GLN:CG	2.09	0.71
1:A:538:TYR:HE2	1:A:565:GLY:C	1.92	0.71
1:D:538:TYR:HE2	1:D:565:GLY:C	1.92	0.71
1:C:798:ALA:HA	1:C:801:ILE:HD11	1.73	0.71
1:A:22:THR:HG21	1:A:438:GLU:CG	2.19	0.71
1:A:387:VAL:HG11	1:A:407:LEU:HD21	1.71	0.71
1:A:382:ASN:O	1:A:383:ASN:HB2	1.91	0.71
1:B:382:ASN:O	1:B:383:ASN:HB2	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:908:ASP:CB	1:B:1007:PHE:CE1	2.74	0.71
1:A:908:ASP:CB	1:A:1007:PHE:CE1	2.74	0.71
1:B:693:GLN:NE2	1:B:721:ARG:CD	2.54	0.70
1:A:693:GLN:NE2	1:A:721:ARG:CD	2.54	0.70
1:B:538:TYR:HE2	1:B:565:GLY:C	1.92	0.70
1:D:798:ALA:HA	1:D:801:ILE:HD11	1.73	0.70
1:B:867:THR:HG22	1:B:1017:GLN:CG	2.21	0.70
1:A:148:SER:HG	1:A:192:SER:HB3	1.52	0.70
1:D:472:TYR:CE1	1:D:495:ALA:O	2.43	0.70
1:C:472:TYR:CE1	1:C:495:ALA:O	2.43	0.70
1:A:824:GLN:HE22	1:A:825:CYS:C	1.93	0.70
1:C:949:HIS:ND1	1:C:1020:TRP:CH2	2.59	0.70
1:C:538:TYR:HE2	1:C:565:GLY:C	1.92	0.70
1:B:542:MET:SD	1:B:790:ASP:HB2	2.32	0.70
1:B:541:ALA:HB2	1:B:606:LEU:HD12	1.71	0.70
1:A:542:MET:SD	1:A:790:ASP:HB2	2.32	0.70
1:A:472:TYR:CE1	1:A:495:ALA:O	2.43	0.70
1:C:530:THR:C	1:C:561:ARG:NH2	2.44	0.70
1:B:867:THR:CG2	1:B:1017:GLN:OE1	2.37	0.70
1:A:867:THR:CG2	1:A:1017:GLN:OE1	2.37	0.70
1:A:867:THR:HG22	1:A:1017:GLN:CG	2.21	0.70
1:B:148:SER:HG	1:B:192:SER:HB3	1.53	0.70
1:A:655:MET:HE3	1:A:699:ARG:HH12	1.49	0.70
1:D:830:LEU:CB	1:D:833:ALA:O	2.36	0.70
1:D:222:ILE:HG21	1:D:244:VAL:HG11	1.72	0.70
1:A:572:ASP:CG	1:A:603:MET:HE2	2.12	0.70
1:B:572:ASP:CG	1:B:603:MET:HE2	2.12	0.70
1:D:949:HIS:ND1	1:D:1020:TRP:CH2	2.59	0.70
1:B:472:TYR:CE1	1:B:495:ALA:O	2.43	0.70
1:D:530:THR:C	1:D:561:ARG:NH2	2.44	0.70
1:B:706:THR:HG22	1:B:707:ALA:N	2.06	0.70
1:C:830:LEU:CB	1:C:833:ALA:O	2.36	0.70
1:D:657:ALA:HB2	1:D:662:PRO:CA	2.21	0.70
1:B:949:HIS:ND1	1:B:1020:TRP:CH2	2.59	0.70
1:C:616:ALA:HA	1:C:909:ARG:HH11	1.55	0.70
1:D:816:TYR:HE2	1:D:968:MET:HE1	1.47	0.70
1:D:262:GLN:HB2	1:D:309:TYR:CD2	2.27	0.70
1:D:764:PHE:HD1	1:D:781:ARG:HG3	1.50	0.70
1:B:825:CYS:O	1:B:826:THR:HG22	1.90	0.70
1:A:825:CYS:O	1:A:826:THR:HG22	1.90	0.70
1:C:222:ILE:HG21	1:C:244:VAL:HG11	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:222:ILE:HG21	1:B:244:VAL:HG11	1.72	0.70
1:D:17:GLU:OE1	1:D:113:PHE:HA	1.91	0.70
1:A:420:MET:O	1:A:423:MET:HA	1.92	0.70
1:C:102:ASN:CB	1:C:598:ASP:OD1	2.39	0.70
1:A:541:ALA:HB2	1:A:606:LEU:HD12	1.71	0.70
1:D:382:ASN:O	1:D:383:ASN:HB2	1.91	0.70
1:B:498:ILE:CG2	1:B:532:PRO:HG2	2.19	0.70
1:A:706:THR:HG22	1:A:707:ALA:N	2.06	0.70
1:C:262:GLN:HB2	1:C:309:TYR:CD2	2.27	0.70
1:C:275:GLY:HA2	1:C:288:ARG:O	1.91	0.70
1:D:124:SER:HA	1:D:184:LEU:O	1.91	0.70
1:C:17:GLU:OE1	1:C:113:PHE:HA	1.91	0.70
1:C:124:SER:HA	1:C:184:LEU:O	1.91	0.70
1:B:420:MET:O	1:B:423:MET:HA	1.92	0.70
1:A:949:HIS:ND1	1:A:1020:TRP:CH2	2.59	0.70
1:B:193:ASP:OD1	1:B:194:GLY:N	2.24	0.70
1:A:193:ASP:OD1	1:A:194:GLY:N	2.24	0.70
1:A:568:TRP:NE1	1:A:604:ASN:OD1	2.24	0.70
1:C:382:ASN:O	1:C:383:ASN:HB2	1.91	0.70
1:D:148:SER:HG	1:D:192:SER:HB3	1.54	0.70
1:A:836:ILE:N	1:A:836:ILE:HD13	2.03	0.70
1:B:706:THR:HG21	1:B:708:TRP:HE1	1.55	0.70
1:A:178:ARG:HH11	1:A:178:ARG:HG3	1.56	0.70
1:A:758:PHE:HD1	1:A:765:LEU:HB3	1.48	0.70
1:D:221:GLN:NE2	1:D:221:GLN:O	2.25	0.70
1:D:275:GLY:HA2	1:D:288:ARG:O	1.91	0.70
1:D:100:TYR:OH	1:D:602:CYS:CA	2.39	0.70
1:A:222:ILE:HG21	1:A:244:VAL:HG11	1.72	0.70
1:C:657:ALA:HB2	1:C:662:PRO:CA	2.21	0.70
1:D:102:ASN:CB	1:D:598:ASP:OD1	2.39	0.70
1:A:440:VAL:CG2	1:A:471:LEU:CD1	2.70	0.70
1:A:498:ILE:CG2	1:A:532:PRO:HG2	2.19	0.70
1:C:764:PHE:HD1	1:C:781:ARG:HG3	1.50	0.70
1:B:758:PHE:HD1	1:B:765:LEU:HB3	1.48	0.70
1:B:824:GLN:HE22	1:B:825:CYS:C	1.93	0.70
1:C:221:GLN:O	1:C:221:GLN:NE2	2.25	0.70
1:A:124:SER:HA	1:A:184:LEU:O	1.91	0.70
1:A:73:TRP:CZ3	1:A:122:CYS:SG	2.85	0.70
1:D:616:ALA:HA	1:D:909:ARG:HH11	1.55	0.70
1:B:568:TRP:NE1	1:B:604:ASN:OD1	2.24	0.70
1:B:440:VAL:CG2	1:B:471:LEU:CD1	2.70	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:706:THR:HG21	1:A:708:TRP:HE1	1.55	0.70
1:B:836:ILE:HD13	1:B:836:ILE:N	2.04	0.70
1:B:333:ARG:NH1	1:B:333:ARG:HG2	2.04	0.70
1:C:100:TYR:OH	1:C:602:CYS:CA	2.39	0.70
1:A:12:GLN:HA	1:A:13:ARG:C	2.12	0.70
1:B:124:SER:HA	1:B:184:LEU:O	1.91	0.70
1:B:73:TRP:CZ3	1:B:122:CYS:SG	2.85	0.70
1:A:333:ARG:NH1	1:A:333:ARG:HG2	2.04	0.70
1:B:178:ARG:HH11	1:B:178:ARG:HG3	1.56	0.70
1:D:255:ARG:NH1	1:D:255:ARG:HG3	2.07	0.70
1:A:91:GLN:CG	1:A:190:ARG:HH22	1.91	0.70
1:B:106:PRO:CG	1:B:191:TRP:HH2	1.81	0.70
1:D:568:TRP:NE1	1:D:604:ASN:OD1	2.24	0.70
1:A:379:MET:O	1:A:384:PHE:HB2	1.92	0.70
1:C:498:ILE:HD12	1:C:498:ILE:O	1.92	0.70
1:B:337:ILE:CD1	1:B:483:PRO:HG3	2.22	0.70
1:B:262:GLN:HB2	1:B:309:TYR:CD2	2.27	0.70
1:A:262:GLN:HB2	1:A:309:TYR:CD2	2.27	0.70
1:C:255:ARG:HG3	1:C:255:ARG:NH1	2.07	0.69
1:A:200:GLN:HG3	1:A:416:GLU:HB3	1.74	0.69
1:D:599:ARG:HG3	1:D:600:GLN:HG2	1.72	0.69
1:C:568:TRP:NE1	1:C:604:ASN:OD1	2.24	0.69
1:D:908:ASP:CB	1:D:1007:PHE:CE1	2.74	0.69
1:B:626:PHE:O	1:B:641:GLU:CB	2.32	0.69
1:A:337:ILE:CD1	1:A:483:PRO:HG3	2.22	0.69
1:D:399:TYR:CE1	1:D:447:ASP:OD2	2.45	0.69
1:C:399:TYR:CE1	1:C:447:ASP:OD2	2.45	0.69
1:D:636:ILE:CG2	1:D:680:ILE:HB	2.22	0.69
1:A:691:ALA:HB3	1:A:727:SER:HB2	1.68	0.69
1:B:12:GLN:HA	1:B:13:ARG:C	2.12	0.69
1:B:205:MET:HE3	1:B:365:GLN:H	1.58	0.69
1:B:200:GLN:HG3	1:B:416:GLU:HB3	1.74	0.69
1:D:21:VAL:CG1	1:D:24:LEU:HD21	2.20	0.69
1:C:21:VAL:CG1	1:C:24:LEU:HD21	2.20	0.69
1:D:73:TRP:CZ3	1:D:122:CYS:SG	2.85	0.69
1:B:599:ARG:NE	1:B:797:GLU:OE2	2.24	0.69
1:D:961:ARG:HE	1:D:982:THR:HG22	1.55	0.69
1:B:379:MET:O	1:B:384:PHE:HB2	1.92	0.69
1:D:379:MET:O	1:D:384:PHE:HB2	1.92	0.69
1:C:908:ASP:CB	1:C:1007:PHE:CE1	2.74	0.69
1:D:498:ILE:O	1:D:498:ILE:HD12	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:636:ILE:CG2	1:C:680:ILE:HB	2.22	0.69
1:A:17:GLU:OE1	1:A:113:PHE:HA	1.91	0.69
1:B:106:PRO:CG	1:B:191:TRP:CZ3	2.76	0.69
1:C:599:ARG:HG3	1:C:600:GLN:HG2	1.73	0.69
1:C:961:ARG:HE	1:C:982:THR:HG22	1.55	0.69
1:C:440:VAL:CG2	1:C:471:LEU:CD1	2.70	0.69
1:C:337:ILE:CD1	1:C:483:PRO:HG3	2.22	0.69
1:D:337:ILE:CD1	1:D:483:PRO:HG3	2.22	0.69
1:A:941:THR:HG21	1:A:957:PHE:CE2	2.28	0.69
1:B:941:THR:HG21	1:B:957:PHE:CE2	2.28	0.69
1:A:673:ALA:HB1	1:A:674:PRO:HD2	1.75	0.69
1:B:673:ALA:HB1	1:B:674:PRO:HD2	1.75	0.69
1:C:636:ILE:CD1	1:C:698:VAL:HG21	2.23	0.69
1:B:652:LEU:HD11	1:B:698:VAL:HG12	1.74	0.69
1:A:636:ILE:CG2	1:A:680:ILE:HB	2.22	0.69
1:D:54:LEU:HG	1:D:214:LEU:HD13	1.71	0.69
1:D:51:LEU:HD12	1:D:52:ARG:H	1.56	0.69
1:A:106:PRO:CG	1:A:191:TRP:CZ3	2.76	0.69
1:B:91:GLN:CG	1:B:190:ARG:HH22	1.91	0.69
1:C:73:TRP:CZ3	1:C:122:CYS:SG	2.85	0.69
1:C:542:MET:SD	1:C:790:ASP:HB2	2.32	0.69
1:A:599:ARG:NE	1:A:797:GLU:OE2	2.24	0.69
1:A:146:VAL:O	1:A:165:SER:HB3	1.92	0.69
1:D:440:VAL:CG2	1:D:471:LEU:CD1	2.70	0.69
1:B:399:TYR:CE1	1:B:447:ASP:OD2	2.45	0.69
1:A:427:THR:HB	1:A:436:MET:HE1	1.71	0.69
1:D:636:ILE:CD1	1:D:698:VAL:HG21	2.23	0.69
1:B:100:TYR:OH	1:B:602:CYS:CA	2.39	0.69
1:A:100:TYR:OH	1:A:602:CYS:CA	2.39	0.69
1:A:652:LEU:HD11	1:A:698:VAL:HG12	1.74	0.69
1:C:54:LEU:HG	1:C:214:LEU:HD13	1.71	0.69
1:C:51:LEU:HD12	1:C:52:ARG:H	1.56	0.69
1:B:17:GLU:OE1	1:B:113:PHE:HA	1.91	0.69
1:C:379:MET:O	1:C:384:PHE:HB2	1.92	0.69
1:A:530:THR:C	1:A:561:ARG:NH2	2.44	0.69
1:B:530:THR:C	1:B:561:ARG:NH2	2.44	0.69
1:A:626:PHE:O	1:A:641:GLU:CB	2.32	0.69
1:B:146:VAL:O	1:B:165:SER:HB3	1.92	0.69
1:C:672:VAL:HG22	1:C:678:GLN:HB2	1.75	0.69
1:A:399:TYR:CE1	1:A:447:ASP:OD2	2.45	0.69
1:A:353:GLY:HA2	1:A:386:ALA:O	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:353:GLY:HA2	1:B:386:ALA:O	1.93	0.69
1:B:971:SER:OG	1:B:972:HIS:ND1	1.95	0.69
1:B:636:ILE:CG2	1:B:680:ILE:HB	2.22	0.69
1:A:111:PRO:CD	1:A:196:TYR:CE2	2.73	0.69
1:A:106:PRO:CG	1:A:191:TRP:HH2	1.81	0.69
1:D:193:ASP:OD1	1:D:194:GLY:N	2.24	0.69
1:C:193:ASP:OD1	1:C:194:GLY:N	2.24	0.69
1:D:542:MET:SD	1:D:790:ASP:HB2	2.32	0.69
1:B:55:ASN:ND2	1:B:211:ASP:OD1	2.24	0.69
1:A:55:ASN:ND2	1:A:211:ASP:OD1	2.24	0.69
1:C:747:PHE:CE1	1:C:760:ARG:CZ	2.76	0.69
1:A:874:SER:HG	1:B:724:GLU:CB	1.96	0.69
1:B:691:ALA:HB3	1:B:727:SER:HB2	1.68	0.69
1:C:54:LEU:CG	1:C:214:LEU:HD13	2.22	0.69
1:B:111:PRO:CD	1:B:196:TYR:CE2	2.73	0.69
1:D:22:THR:HG21	1:D:438:GLU:CG	2.19	0.69
1:C:148:SER:HG	1:C:192:SER:HB3	1.55	0.69
1:B:474:TRP:CH2	1:B:478:VAL:HG11	2.27	0.69
1:D:672:VAL:HG22	1:D:678:GLN:HB2	1.75	0.69
1:C:98:PRO:O	1:C:594:ASP:OD1	2.11	0.69
1:D:98:PRO:O	1:D:594:ASP:OD1	2.11	0.69
1:D:747:PHE:CE1	1:D:760:ARG:CZ	2.76	0.69
1:A:747:PHE:CE1	1:A:760:ARG:CZ	2.76	0.69
1:B:747:PHE:CE1	1:B:760:ARG:CZ	2.76	0.69
1:D:54:LEU:CG	1:D:214:LEU:HD13	2.22	0.69
1:D:358:GLU:HA	1:D:367:MET:CE	2.18	0.69
1:C:589:GLY:CA	1:C:599:ARG:CA	2.62	0.69
1:C:22:THR:HG21	1:C:438:GLU:CG	2.20	0.69
1:B:498:ILE:O	1:B:498:ILE:HD12	1.92	0.69
1:B:51:LEU:HD12	1:B:52:ARG:H	1.56	0.69
1:A:474:TRP:CH2	1:A:478:VAL:HG11	2.27	0.69
1:D:706:THR:HG22	1:D:707:ALA:N	2.06	0.69
1:B:853:ARG:NH1	1:B:853:ARG:HG3	2.08	0.69
1:A:853:ARG:NH1	1:A:853:ARG:HG3	2.08	0.69
1:D:693:GLN:NE2	1:D:721:ARG:CB	2.56	0.69
1:D:420:MET:O	1:D:423:MET:HA	1.92	0.69
1:D:91:GLN:CD	1:D:96:ASP:CB	2.59	0.69
1:C:750:GLU:CG	1:C:755:ARG:CD	2.71	0.69
1:D:578:TYR:CD2	1:D:582:GLY:O	2.46	0.69
1:C:578:TYR:CD2	1:C:582:GLY:O	2.46	0.69
1:A:498:ILE:O	1:A:498:ILE:HD12	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:440:VAL:CB	1:B:471:LEU:HD12	2.23	0.69
1:A:908:ASP:CG	1:A:1007:PHE:HE1	1.96	0.69
1:B:898:LEU:C	1:B:898:LEU:HD23	2.14	0.69
1:C:706:THR:HG22	1:C:707:ALA:N	2.06	0.69
1:D:764:PHE:HD1	1:D:781:ARG:CG	2.05	0.69
1:D:770:ILE:HG23	1:D:773:LYS:CB	2.20	0.69
1:C:693:GLN:NE2	1:C:721:ARG:CB	2.56	0.69
1:C:693:GLN:NE2	1:C:721:ARG:CD	2.54	0.69
1:D:55:ASN:ND2	1:D:211:ASP:OD1	2.24	0.69
1:C:420:MET:O	1:C:423:MET:HA	1.91	0.69
1:D:750:GLU:CG	1:D:755:ARG:CD	2.71	0.69
1:A:798:ALA:HA	1:A:801:ILE:HD11	1.73	0.69
1:B:908:ASP:CG	1:B:1007:PHE:HE1	1.96	0.69
1:A:898:LEU:HD23	1:A:898:LEU:C	2.14	0.69
1:C:472:TYR:CD1	1:C:495:ALA:O	2.46	0.69
1:A:51:LEU:HD12	1:A:52:ARG:H	1.56	0.69
1:D:706:THR:HG21	1:D:708:TRP:HE1	1.55	0.69
1:A:337:ILE:HD12	1:A:483:PRO:HG3	1.75	0.69
1:B:337:ILE:HD12	1:B:483:PRO:HG3	1.75	0.69
1:C:764:PHE:HE2	1:C:840:HIS:CE1	1.57	0.68
1:A:764:PHE:HE1	1:A:781:ARG:HG2	1.59	0.68
1:B:255:ARG:HH11	1:B:255:ARG:HG3	1.58	0.68
1:A:255:ARG:HH11	1:A:255:ARG:HG3	1.58	0.68
1:C:724:GLU:HB3	1:D:874:SER:N	2.08	0.68
1:C:91:GLN:CD	1:C:96:ASP:CB	2.59	0.68
1:A:7:LEU:HD22	1:A:71:GLU:CA	2.16	0.68
1:D:788:PRO:CB	1:D:793:ILE:HD11	2.23	0.68
1:C:788:PRO:CB	1:C:793:ILE:HD11	2.23	0.68
1:B:798:ALA:HA	1:B:801:ILE:HD11	1.73	0.68
1:A:440:VAL:CB	1:A:471:LEU:HD12	2.23	0.68
1:B:440:VAL:CG2	1:B:471:LEU:HD12	2.22	0.68
1:D:472:TYR:CD1	1:D:495:ALA:O	2.46	0.68
1:C:673:ALA:HB1	1:C:674:PRO:HD2	1.75	0.68
1:C:764:PHE:HD1	1:C:781:ARG:CG	2.05	0.68
1:B:764:PHE:HE1	1:B:781:ARG:HG2	1.59	0.68
1:B:762:SER:C	1:B:822:LEU:HD11	2.12	0.68
1:C:353:GLY:HA2	1:C:386:ALA:O	1.93	0.68
1:A:971:SER:OG	1:A:972:HIS:ND1	1.95	0.68
1:B:652:LEU:CD2	1:B:680:ILE:CD1	2.72	0.68
1:C:874:SER:N	1:D:724:GLU:HB3	2.08	0.68
1:D:693:GLN:NE2	1:D:721:ARG:CD	2.54	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:205:MET:HE3	1:C:365:GLN:H	1.57	0.68
1:C:55:ASN:ND2	1:C:211:ASP:OD1	2.24	0.68
1:C:395:HIS:CE1	1:C:396:PRO:CD	2.67	0.68
1:D:589:GLY:CA	1:D:599:ARG:CA	2.62	0.68
1:A:788:PRO:CB	1:A:793:ILE:HD11	2.23	0.68
1:D:705:ALA:HB2	1:D:711:ALA:H	1.54	0.68
1:A:440:VAL:CG2	1:A:471:LEU:HD12	2.22	0.68
1:A:626:PHE:CA	1:A:641:GLU:HB2	2.23	0.68
1:D:440:VAL:CG2	1:D:471:LEU:HD12	2.22	0.68
1:C:474:TRP:CH2	1:C:478:VAL:HG11	2.27	0.68
1:A:838:THR:OG1	1:A:854:LYS:HG2	1.93	0.68
1:C:221:GLN:HE21	1:C:221:GLN:C	1.96	0.68
1:C:770:ILE:HG23	1:C:773:LYS:CB	2.20	0.68
1:A:652:LEU:CD2	1:A:680:ILE:CD1	2.72	0.68
1:D:12:GLN:HA	1:D:13:ARG:C	2.12	0.68
1:C:12:GLN:HA	1:C:13:ARG:C	2.12	0.68
1:A:23:GLN:HG3	1:A:26:ARG:HH21	1.58	0.68
1:B:788:PRO:CB	1:B:793:ILE:HD11	2.23	0.68
1:B:578:TYR:CD2	1:B:582:GLY:O	2.46	0.68
1:C:908:ASP:CG	1:C:1007:PHE:HE1	1.96	0.68
1:B:626:PHE:CA	1:B:641:GLU:HB2	2.23	0.68
1:C:440:VAL:CG2	1:C:471:LEU:HD12	2.22	0.68
1:C:706:THR:HG21	1:C:708:TRP:HE1	1.55	0.68
1:D:673:ALA:HB1	1:D:674:PRO:HD2	1.75	0.68
1:A:776:LEU:HD13	1:A:778:THR:O	1.94	0.68
1:A:762:SER:C	1:A:822:LEU:HD11	2.12	0.68
1:B:776:LEU:HD13	1:B:778:THR:O	1.94	0.68
1:D:353:GLY:HA2	1:D:386:ALA:O	1.93	0.68
1:B:91:GLN:CD	1:B:96:ASP:CB	2.59	0.68
1:A:578:TYR:CD2	1:A:582:GLY:O	2.46	0.68
1:D:908:ASP:CG	1:D:1007:PHE:HE1	1.96	0.68
1:D:898:LEU:C	1:D:898:LEU:HD23	2.14	0.68
1:D:474:TRP:CH2	1:D:478:VAL:HG11	2.27	0.68
1:A:740:LEU:HD21	1:A:829:THR:OG1	1.93	0.68
1:B:838:THR:OG1	1:B:854:LYS:HG2	1.93	0.68
1:D:764:PHE:CZ	1:D:840:HIS:ND1	2.59	0.68
1:D:221:GLN:HE21	1:D:221:GLN:C	1.96	0.68
1:A:255:ARG:NH1	1:A:255:ARG:HG3	2.07	0.68
1:A:636:ILE:CD1	1:A:698:VAL:HG21	2.23	0.68
1:A:874:SER:N	1:B:724:GLU:HB3	2.09	0.68
1:C:105:TYR:OH	1:C:420:MET:CG	2.35	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:7:LEU:HD22	1:B:71:GLU:CA	2.16	0.68
1:D:395:HIS:CE1	1:D:396:PRO:CD	2.67	0.68
1:B:23:GLN:HG3	1:B:26:ARG:HH21	1.58	0.68
1:D:601:PHE:CZ	1:D:998:SER:CB	2.76	0.68
1:B:892:ALA:HB3	1:B:946:TYR:HE1	1.50	0.68
1:A:892:ALA:HB3	1:A:946:TYR:HE1	1.50	0.68
1:C:626:PHE:CA	1:C:641:GLU:HB2	2.23	0.68
1:C:898:LEU:C	1:C:898:LEU:HD23	2.14	0.68
1:A:221:GLN:NE2	1:A:221:GLN:O	2.25	0.68
1:A:258:VAL:HG23	1:A:291:LEU:HD12	1.75	0.68
1:B:258:VAL:HG23	1:B:291:LEU:HD12	1.75	0.68
1:A:724:GLU:HB3	1:B:874:SER:N	2.09	0.68
1:D:106:PRO:CG	1:D:191:TRP:CZ3	2.76	0.68
1:C:91:GLN:CG	1:C:190:ARG:HH22	1.91	0.68
1:A:125:LEU:HD13	1:A:125:LEU:C	2.14	0.68
1:A:91:GLN:CD	1:A:96:ASP:CB	2.59	0.68
1:B:125:LEU:HD13	1:B:125:LEU:C	2.14	0.68
1:A:167:LEU:HD13	1:A:442:ARG:CB	2.21	0.68
1:C:601:PHE:CZ	1:C:998:SER:CB	2.76	0.68
1:C:705:ALA:HB2	1:C:711:ALA:H	1.54	0.68
1:A:472:TYR:CD1	1:A:495:ALA:O	2.46	0.68
1:B:672:VAL:HG22	1:B:678:GLN:HB2	1.74	0.68
1:A:672:VAL:HG22	1:A:678:GLN:HB2	1.74	0.68
1:B:740:LEU:HD21	1:B:829:THR:OG1	1.93	0.68
1:D:276:GLY:CA	1:D:277:GLU:OE1	2.42	0.68
1:C:276:GLY:CA	1:C:277:GLU:OE1	2.42	0.68
1:A:98:PRO:O	1:A:594:ASP:OD1	2.11	0.68
1:D:762:SER:C	1:D:822:LEU:HD11	2.12	0.68
1:B:140:ARG:NH2	1:B:217:LYS:HE2	2.09	0.68
1:B:255:ARG:NH1	1:B:255:ARG:HG3	2.07	0.68
1:A:280:ASP:HB2	1:D:515:VAL:HG21	1.67	0.68
1:D:205:MET:HE3	1:D:365:GLN:H	1.57	0.68
1:C:106:PRO:CG	1:C:191:TRP:CZ3	2.76	0.68
1:B:73:TRP:CD1	1:B:183:ARG:NH2	2.62	0.68
1:B:167:LEU:HD13	1:B:442:ARG:CB	2.21	0.68
1:D:626:PHE:CA	1:D:641:GLU:HB2	2.23	0.68
1:C:853:ARG:NH1	1:C:853:ARG:HG3	2.08	0.68
1:C:762:SER:C	1:C:822:LEU:HD11	2.12	0.68
1:C:764:PHE:CZ	1:C:840:HIS:ND1	2.60	0.68
1:D:823:LEU:CD1	1:D:839:ALA:HB1	2.05	0.68
1:B:221:GLN:NE2	1:B:221:GLN:O	2.25	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:140:ARG:NH2	1:A:217:LYS:HE2	2.09	0.68
1:B:636:ILE:CD1	1:B:698:VAL:HG21	2.23	0.68
1:D:152:LEU:HD11	1:D:184:LEU:HD11	1.76	0.68
1:C:111:PRO:CD	1:C:196:TYR:CE2	2.73	0.68
1:C:152:LEU:HD11	1:C:184:LEU:HD11	1.76	0.68
1:C:200:GLN:HG3	1:C:416:GLU:HB3	1.74	0.68
1:A:412:GLU:OE2	1:A:460:ASN:HB2	1.94	0.68
1:B:412:GLU:OE2	1:B:460:ASN:HB2	1.94	0.68
1:A:73:TRP:CD1	1:A:183:ARG:NH2	2.62	0.68
1:C:892:ALA:HB3	1:C:946:TYR:HE1	1.50	0.68
1:A:520:ILE:CG2	1:A:562:LEU:HD21	2.24	0.68
1:B:472:TYR:CD1	1:B:495:ALA:O	2.46	0.68
1:B:520:ILE:CG2	1:B:562:LEU:HD21	2.24	0.68
1:D:942:ARG:HG3	1:D:942:ARG:NH2	2.07	0.68
1:B:54:LEU:CG	1:B:214:LEU:HD13	2.22	0.68
1:D:337:ILE:HD12	1:D:483:PRO:HG3	1.76	0.68
1:D:141:ILE:CD1	1:D:143:PHE:CZ	2.77	0.68
1:C:141:ILE:CD1	1:C:143:PHE:CZ	2.77	0.68
1:D:853:ARG:HG3	1:D:853:ARG:NH1	2.08	0.68
1:B:98:PRO:O	1:B:594:ASP:OD1	2.11	0.68
1:D:764:PHE:HE2	1:D:840:HIS:CE1	1.57	0.68
1:D:776:LEU:HD13	1:D:778:THR:O	1.94	0.68
1:C:823:LEU:CD1	1:C:839:ALA:HB1	2.05	0.68
1:D:200:GLN:HG3	1:D:416:GLU:HB3	1.74	0.68
1:A:996:ASP:N	1:A:1002:SER:CB	2.57	0.68
1:C:942:ARG:NH2	1:C:942:ARG:HG3	2.07	0.68
1:A:54:LEU:CG	1:A:214:LEU:HD13	2.22	0.68
1:D:838:THR:OG1	1:D:854:LYS:HG2	1.93	0.68
1:C:337:ILE:HD12	1:C:483:PRO:HG3	1.76	0.68
1:C:776:LEU:HD13	1:C:778:THR:O	1.94	0.68
1:A:974:HIS:ND1	1:A:975:LEU:HD23	2.09	0.68
1:D:91:GLN:CG	1:D:190:ARG:HH22	1.91	0.68
1:D:54:LEU:CD2	1:D:214:LEU:CD1	2.72	0.68
1:C:54:LEU:CD2	1:C:214:LEU:CD1	2.72	0.68
1:C:167:LEU:CD1	1:C:442:ARG:CB	2.62	0.68
1:C:751:LEU:C	1:C:751:LEU:HD23	2.14	0.68
1:D:751:LEU:C	1:D:751:LEU:HD23	2.14	0.68
1:D:433:LEU:CB	1:D:467:ASN:ND2	2.57	0.67
1:D:815:HIS:ND1	1:D:850:PHE:HZ	1.86	0.67
1:D:140:ARG:NH2	1:D:217:LYS:HE2	2.09	0.67
1:C:974:HIS:ND1	1:C:975:LEU:HD23	2.09	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:974:HIS:ND1	1:D:975:LEU:HD23	2.09	0.67
1:B:974:HIS:ND1	1:B:975:LEU:HD23	2.09	0.67
1:B:221:GLN:HE21	1:B:221:GLN:C	1.96	0.67
1:A:221:GLN:HE21	1:A:221:GLN:C	1.96	0.67
1:D:111:PRO:CD	1:D:196:TYR:CE2	2.73	0.67
1:B:996:ASP:N	1:B:1002:SER:CB	2.57	0.67
1:B:749:ILE:HD12	1:B:749:ILE:N	2.09	0.67
1:D:749:ILE:N	1:D:749:ILE:HD12	2.09	0.67
1:D:203:TRP:CD2	1:D:575:LEU:HD11	2.30	0.67
1:D:167:LEU:CD1	1:D:442:ARG:CB	2.62	0.67
1:B:601:PHE:CZ	1:B:998:SER:CB	2.76	0.67
1:D:892:ALA:HB3	1:D:946:TYR:HE1	1.50	0.67
1:C:941:THR:HG21	1:C:957:PHE:CE2	2.28	0.67
1:C:473:ARG:HD3	1:C:473:ARG:O	1.94	0.67
1:C:433:LEU:CB	1:C:467:ASN:ND2	2.57	0.67
1:C:140:ARG:NH2	1:C:217:LYS:HE2	2.09	0.67
1:A:749:ILE:HD12	1:A:749:ILE:N	2.09	0.67
1:C:749:ILE:N	1:C:749:ILE:HD12	2.09	0.67
1:C:203:TRP:CD2	1:C:575:LEU:HD11	2.30	0.67
1:C:167:LEU:HD13	1:C:442:ARG:CB	2.21	0.67
1:D:540:HIS:CD2	1:D:568:TRP:HD1	2.13	0.67
1:C:540:HIS:CD2	1:C:568:TRP:HD1	2.13	0.67
1:A:601:PHE:CZ	1:A:998:SER:CB	2.76	0.67
1:D:900:LEU:HB3	1:D:913:ALA:HB1	1.77	0.67
1:D:520:ILE:CG2	1:D:562:LEU:HD21	2.24	0.67
1:B:54:LEU:CD2	1:B:214:LEU:CD1	2.72	0.67
1:C:838:THR:OG1	1:C:854:LYS:HG2	1.93	0.67
1:A:54:LEU:CD2	1:A:214:LEU:CD1	2.72	0.67
1:D:740:LEU:HD21	1:D:829:THR:OG1	1.93	0.67
1:C:637:GLU:HG3	1:C:679:LEU:HD22	1.75	0.67
1:D:637:GLU:HG3	1:D:679:LEU:HD22	1.75	0.67
1:D:941:THR:HG21	1:D:957:PHE:CE2	2.28	0.67
1:A:141:ILE:CD1	1:A:143:PHE:CZ	2.77	0.67
1:C:246:MET:CB	1:C:274:PHE:CE2	2.78	0.67
1:D:255:ARG:HH11	1:D:255:ARG:HG3	1.58	0.67
1:D:246:MET:CB	1:D:274:PHE:CE2	2.78	0.67
1:B:974:HIS:CG	1:B:975:LEU:HD23	2.29	0.67
1:A:974:HIS:CG	1:A:975:LEU:HD23	2.29	0.67
1:A:750:GLU:CG	1:A:755:ARG:CD	2.71	0.67
1:D:996:ASP:N	1:D:1002:SER:CB	2.57	0.67
1:C:900:LEU:HB3	1:C:913:ALA:HB1	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:520:ILE:CG2	1:C:562:LEU:HD21	2.24	0.67
1:D:258:VAL:HG23	1:D:291:LEU:HD12	1.75	0.67
1:B:51:LEU:HD12	1:B:52:ARG:N	2.10	0.67
1:A:51:LEU:HD12	1:A:52:ARG:N	2.10	0.67
1:D:473:ARG:HD3	1:D:473:ARG:O	1.94	0.67
1:B:427:THR:HB	1:B:436:MET:HE1	1.71	0.67
1:A:770:ILE:HB	1:A:775:GLN:NE2	2.08	0.67
1:B:770:ILE:HB	1:B:775:GLN:NE2	2.08	0.67
1:D:30:HIS:CD2	1:D:33:PHE:HZ	2.00	0.67
1:D:770:ILE:HB	1:D:775:GLN:NE2	2.08	0.67
1:B:390:SER:CA	1:B:391:HIS:ND1	2.51	0.67
1:B:750:GLU:CG	1:B:755:ARG:CD	2.71	0.67
1:C:740:LEU:HD21	1:C:829:THR:OG1	1.93	0.67
1:B:141:ILE:CD1	1:B:143:PHE:CZ	2.77	0.67
1:B:473:ARG:HA	1:B:473:ARG:NE	2.10	0.67
1:B:473:ARG:HD3	1:B:473:ARG:O	1.94	0.67
1:A:473:ARG:NE	1:A:473:ARG:HA	2.10	0.67
1:C:815:HIS:ND1	1:C:850:PHE:HZ	1.86	0.67
1:B:778:THR:HG22	1:B:779:PRO:HD2	1.76	0.67
1:C:255:ARG:HG3	1:C:255:ARG:HH11	1.58	0.67
1:C:770:ILE:HB	1:C:775:GLN:NE2	2.08	0.67
1:C:996:ASP:N	1:C:1002:SER:CB	2.57	0.67
1:A:23:GLN:O	1:A:24:LEU:HD23	1.95	0.67
1:D:167:LEU:HD13	1:D:442:ARG:CB	2.21	0.67
1:C:258:VAL:HG23	1:C:291:LEU:HD12	1.75	0.67
1:A:795:VAL:HG11	1:A:800:ARG:HH22	1.59	0.67
1:B:795:VAL:HG11	1:B:800:ARG:HH22	1.59	0.67
1:B:701:VAL:HG22	1:B:714:ILE:HG12	1.76	0.67
1:B:178:ARG:HG2	1:B:182:ASN:OD1	1.95	0.67
1:C:764:PHE:HE1	1:C:781:ARG:HG2	1.59	0.67
1:D:33:PHE:HB3	1:D:326:GLU:OE2	1.89	0.67
1:D:412:GLU:OE2	1:D:460:ASN:HB2	1.94	0.67
1:B:280:ASP:HB2	1:C:515:VAL:HG21	1.67	0.67
1:A:341:LEU:HD22	1:A:563:GLN:HE21	1.60	0.67
1:C:23:GLN:HG3	1:C:26:ARG:HH21	1.58	0.67
1:B:23:GLN:O	1:B:24:LEU:HD23	1.95	0.67
1:A:900:LEU:HB3	1:A:913:ALA:HB1	1.77	0.67
1:A:589:GLY:CA	1:A:599:ARG:CA	2.62	0.67
1:B:626:PHE:HA	1:B:641:GLU:CB	2.24	0.67
1:A:626:PHE:HA	1:A:641:GLU:CB	2.24	0.67
1:A:950:GLN:HG2	1:A:952:ARG:HH22	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:473:ARG:HD3	1:A:473:ARG:O	1.94	0.67
1:A:701:VAL:HG22	1:A:714:ILE:HG12	1.76	0.67
1:A:778:THR:HG22	1:A:779:PRO:HD2	1.76	0.67
1:C:30:HIS:CD2	1:C:33:PHE:HZ	2.00	0.67
1:D:654:TRP:O	1:D:666:GLY:N	2.18	0.67
1:C:652:LEU:CD2	1:C:680:ILE:CD1	2.72	0.67
1:C:974:HIS:CG	1:C:975:LEU:HD23	2.29	0.67
1:C:412:GLU:OE2	1:C:460:ASN:HB2	1.94	0.67
1:A:390:SER:CA	1:A:391:HIS:ND1	2.51	0.67
1:B:341:LEU:HD22	1:B:563:GLN:HE21	1.60	0.67
1:C:768:MET:SD	1:C:1020:TRP:CH2	2.88	0.67
1:D:768:MET:SD	1:D:1020:TRP:CH2	2.88	0.67
1:D:23:GLN:HG3	1:D:26:ARG:HH21	1.58	0.67
1:B:900:LEU:HB3	1:B:913:ALA:HB1	1.77	0.67
1:D:2:MET:CE	1:D:3:ILE:O	2.43	0.67
1:C:2:MET:CE	1:C:3:ILE:O	2.43	0.67
1:B:950:GLN:HG2	1:B:952:ARG:HH22	1.60	0.67
1:C:557:ARG:CZ	1:C:628:GLN:NE2	2.58	0.67
1:D:557:ARG:CZ	1:D:628:GLN:NE2	2.58	0.67
1:A:178:ARG:HG2	1:A:182:ASN:OD1	1.95	0.67
1:C:778:THR:HG22	1:C:779:PRO:HD2	1.76	0.67
1:D:652:LEU:CD2	1:D:680:ILE:CD1	2.72	0.67
1:D:974:HIS:CG	1:D:975:LEU:HD23	2.29	0.67
1:A:60:PHE:HB2	1:A:84:VAL:HG22	1.77	0.67
1:A:601:PHE:CE1	1:A:998:SER:HB3	2.30	0.67
1:D:764:PHE:HE1	1:D:781:ARG:HG2	1.59	0.67
1:C:358:GLU:HA	1:C:367:MET:CE	2.18	0.67
1:A:433:LEU:CB	1:A:467:ASN:ND2	2.57	0.67
1:C:654:TRP:O	1:C:666:GLY:N	2.18	0.67
1:C:874:SER:CB	1:D:724:GLU:HB2	2.24	0.67
1:B:693:GLN:NE2	1:B:721:ARG:CB	2.56	0.67
1:A:874:SER:CB	1:B:724:GLU:HB2	2.25	0.67
1:A:693:GLN:NE2	1:A:721:ARG:CB	2.56	0.67
1:A:724:GLU:HB2	1:B:874:SER:CB	2.25	0.67
1:C:51:LEU:HD12	1:C:52:ARG:N	2.10	0.67
1:D:73:TRP:O	1:D:76:CYS:O	2.13	0.67
1:C:73:TRP:O	1:C:76:CYS:O	2.13	0.67
1:B:203:TRP:CD2	1:B:575:LEU:HD11	2.30	0.67
1:B:589:GLY:CA	1:B:599:ARG:CA	2.62	0.67
1:C:685:LEU:HD13	1:C:722:LEU:CD1	2.12	0.67
1:D:670:LEU:CD1	1:D:678:GLN:OE1	2.38	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:557:ARG:CZ	1:A:628:GLN:NE2	2.58	0.67
1:B:557:ARG:CZ	1:B:628:GLN:NE2	2.58	0.67
1:D:178:ARG:HG2	1:D:182:ASN:OD1	1.95	0.67
1:B:433:LEU:CB	1:B:467:ASN:ND2	2.57	0.67
1:C:33:PHE:HB3	1:C:326:GLU:OE2	1.89	0.67
1:D:51:LEU:HD12	1:D:52:ARG:N	2.10	0.67
1:C:89:ASN:HD22	1:C:205:MET:CE	2.08	0.67
1:B:60:PHE:HB2	1:B:84:VAL:HG22	1.77	0.67
1:A:768:MET:SD	1:A:1020:TRP:CH2	2.88	0.67
1:A:996:ASP:N	1:A:1002:SER:HB2	2.09	0.67
1:C:996:ASP:N	1:C:1002:SER:HB2	2.09	0.67
1:D:996:ASP:N	1:D:1002:SER:HB2	2.09	0.67
1:B:540:HIS:CD2	1:B:568:TRP:HD1	2.13	0.67
1:B:601:PHE:CE1	1:B:998:SER:HB3	2.30	0.67
1:A:203:TRP:CD2	1:A:575:LEU:HD11	2.30	0.67
1:A:540:HIS:CD2	1:A:568:TRP:HD1	2.13	0.67
1:D:626:PHE:HA	1:D:641:GLU:CB	2.24	0.67
1:D:685:LEU:HD13	1:D:722:LEU:CD1	2.12	0.67
1:A:751:LEU:C	1:A:751:LEU:HD23	2.14	0.67
1:D:377:LEU:HD22	1:D:708:TRP:HA	1.77	0.67
1:C:377:LEU:HD22	1:C:708:TRP:HA	1.77	0.67
1:A:276:GLY:CA	1:A:277:GLU:OE1	2.42	0.67
1:C:178:ARG:HG2	1:C:182:ASN:OD1	1.95	0.66
1:D:778:THR:HG22	1:D:779:PRO:HD2	1.76	0.66
1:C:724:GLU:HB2	1:D:874:SER:CB	2.24	0.66
1:D:89:ASN:HD22	1:D:205:MET:CE	2.09	0.66
1:B:996:ASP:N	1:B:1002:SER:HB2	2.09	0.66
1:B:768:MET:SD	1:B:1020:TRP:CH2	2.88	0.66
1:D:900:LEU:HB2	1:D:905:ASN:ND2	2.09	0.66
1:D:440:VAL:CB	1:D:471:LEU:HD12	2.23	0.66
1:D:146:VAL:O	1:D:165:SER:HB3	1.92	0.66
1:A:2:MET:CE	1:A:3:ILE:O	2.43	0.66
1:C:670:LEU:CD1	1:C:678:GLN:OE1	2.38	0.66
1:B:276:GLY:CA	1:B:277:GLU:OE1	2.42	0.66
1:B:35:SER:HB3	1:B:215:LEU:HD11	1.76	0.66
1:A:35:SER:HB3	1:A:215:LEU:HD11	1.76	0.66
1:D:33:PHE:CB	1:D:326:GLU:OE1	2.38	0.66
1:D:125:LEU:C	1:D:125:LEU:HD13	2.14	0.66
1:B:152:LEU:HD11	1:B:184:LEU:HD11	1.76	0.66
1:B:21:VAL:CG1	1:B:24:LEU:HD21	2.20	0.66
1:C:900:LEU:HB2	1:C:905:ASN:ND2	2.09	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:705:ALA:HB2	1:B:711:ALA:H	1.54	0.66
1:C:440:VAL:CB	1:C:471:LEU:HD12	2.23	0.66
1:C:292:ARG:C	1:C:293:LEU:HD12	2.16	0.66
1:D:292:ARG:C	1:D:293:LEU:HD12	2.16	0.66
1:B:2:MET:CE	1:B:3:ILE:O	2.43	0.66
1:B:670:LEU:CD1	1:B:678:GLN:OE1	2.38	0.66
1:D:795:VAL:HG11	1:D:800:ARG:HH22	1.59	0.66
1:A:987:ASP:OD1	1:A:989:PHE:O	2.13	0.66
1:B:246:MET:CB	1:B:274:PHE:CE2	2.78	0.66
1:D:418:HIS:HE1	1:D:461:GLU:OE1	1.70	0.66
1:C:125:LEU:HD13	1:C:125:LEU:C	2.14	0.66
1:C:418:HIS:HE1	1:C:461:GLU:OE1	1.70	0.66
1:A:152:LEU:HD11	1:A:184:LEU:HD11	1.76	0.66
1:A:111:PRO:CB	1:A:196:TYR:CD2	2.60	0.66
1:C:890:GLN:NE2	1:C:948:PRO:CD	2.58	0.66
1:D:23:GLN:O	1:D:24:LEU:HD23	1.95	0.66
1:A:21:VAL:CG1	1:A:24:LEU:HD21	2.20	0.66
1:C:626:PHE:HA	1:C:641:GLU:CB	2.24	0.66
1:C:146:VAL:O	1:C:165:SER:HB3	1.92	0.66
1:C:795:VAL:HG11	1:C:800:ARG:HH22	1.59	0.66
1:B:987:ASP:OD1	1:B:989:PHE:O	2.13	0.66
1:C:33:PHE:CB	1:C:326:GLU:OE1	2.38	0.66
1:A:246:MET:CB	1:A:274:PHE:CE2	2.78	0.66
1:B:111:PRO:CB	1:B:196:TYR:CD2	2.60	0.66
1:D:890:GLN:NE2	1:D:948:PRO:CD	2.58	0.66
1:C:23:GLN:O	1:C:24:LEU:HD23	1.95	0.66
1:D:203:TRP:CH2	1:D:589:GLY:O	2.47	0.66
1:A:685:LEU:HD13	1:A:722:LEU:CD1	2.12	0.66
1:C:737:ILE:CD1	1:C:832:ASP:HA	2.25	0.66
1:B:751:LEU:HD23	1:B:751:LEU:C	2.14	0.66
1:C:358:GLU:CG	1:C:367:MET:HE2	1.89	0.66
1:A:36:TRP:O	1:A:325:ALA:HB3	1.96	0.66
1:C:873:ALA:HA	1:D:724:GLU:OE1	1.95	0.66
1:C:724:GLU:OE1	1:D:873:ALA:HA	1.95	0.66
1:B:890:GLN:NE2	1:B:948:PRO:CD	2.58	0.66
1:A:890:GLN:NE2	1:A:948:PRO:CD	2.58	0.66
1:C:203:TRP:CH2	1:C:589:GLY:O	2.47	0.66
1:B:203:TRP:CH2	1:B:589:GLY:O	2.47	0.66
1:A:203:TRP:CH2	1:A:589:GLY:O	2.47	0.66
1:D:737:ILE:CD1	1:D:832:ASP:HA	2.25	0.66
1:A:670:LEU:CD1	1:A:678:GLN:OE1	2.38	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:470:ALA:HB2	1:C:474:TRP:HB2	1.77	0.66
1:B:369:GLU:HA	1:B:372:MET:HE3	1.78	0.66
1:D:764:PHE:HD1	1:D:781:ARG:CD	2.09	0.66
1:D:824:GLN:NE2	1:D:825:CYS:HA	2.10	0.66
1:A:971:SER:HG	1:A:972:HIS:CE1	2.09	0.66
1:B:224:ASP:OD1	1:B:225:PHE:N	2.29	0.66
1:B:36:TRP:O	1:B:325:ALA:HB3	1.96	0.66
1:A:873:ALA:HA	1:B:724:GLU:OE1	1.96	0.66
1:D:738:PRO:HB2	1:D:834:VAL:HG23	1.76	0.66
1:B:637:GLU:HG3	1:B:679:LEU:HD22	1.75	0.66
1:A:470:ALA:HB2	1:D:474:TRP:HB2	1.77	0.66
1:B:786:ARG:HE	1:B:880:ALA:HB1	1.60	0.66
1:A:786:ARG:HE	1:A:880:ALA:HB1	1.60	0.66
1:B:628:GLN:HA	1:B:628:GLN:OE1	1.96	0.66
1:C:501:PRO:HB3	1:C:523:TRP:CZ3	2.31	0.66
1:C:764:PHE:HD1	1:C:781:ARG:CD	2.09	0.66
1:A:764:PHE:CZ	1:A:840:HIS:ND1	2.59	0.66
1:B:971:SER:HG	1:B:972:HIS:CE1	2.09	0.66
1:A:224:ASP:OD1	1:A:225:PHE:N	2.29	0.66
1:A:292:ARG:C	1:A:293:LEU:HD12	2.16	0.66
1:A:241:GLU:HB3	1:A:292:ARG:HG2	1.77	0.66
1:B:241:GLU:HB3	1:B:292:ARG:HG2	1.77	0.66
1:B:292:ARG:C	1:B:293:LEU:HD12	2.16	0.66
1:A:724:GLU:OE1	1:B:873:ALA:HA	1.96	0.66
1:C:89:ASN:ND2	1:C:205:MET:CE	2.59	0.66
1:B:111:PRO:HA	1:B:196:TYR:CE2	2.31	0.66
1:B:89:ASN:ND2	1:B:205:MET:CE	2.59	0.66
1:C:601:PHE:CE1	1:C:998:SER:HB3	2.30	0.66
1:C:37:ARG:CZ	1:C:218:PRO:HD3	2.25	0.66
1:A:705:ALA:HB2	1:A:711:ALA:H	1.54	0.66
1:D:987:ASP:OD1	1:D:989:PHE:O	2.13	0.66
1:D:501:PRO:HB3	1:D:523:TRP:CZ3	2.31	0.66
1:B:764:PHE:HD1	1:B:781:ARG:CD	2.09	0.66
1:D:824:GLN:HE22	1:D:825:CYS:C	1.93	0.66
1:C:824:GLN:NE2	1:C:825:CYS:HA	2.10	0.66
1:C:824:GLN:HE22	1:C:825:CYS:C	1.93	0.66
1:D:209:PHE:O	1:D:366:VAL:HG22	1.96	0.66
1:D:89:ASN:ND2	1:D:205:MET:CE	2.59	0.66
1:C:7:LEU:HD22	1:C:71:GLU:CA	2.16	0.66
1:C:60:PHE:HB2	1:C:84:VAL:HG22	1.77	0.66
1:A:111:PRO:HA	1:A:196:TYR:CE2	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:89:ASN:ND2	1:A:205:MET:CE	2.59	0.66
1:D:601:PHE:CE1	1:D:998:SER:HB3	2.30	0.66
1:B:685:LEU:HD13	1:B:722:LEU:CD1	2.12	0.66
1:A:637:GLU:HG3	1:A:679:LEU:HD22	1.76	0.66
1:D:950:GLN:HG2	1:D:952:ARG:HH22	1.60	0.66
1:C:41:GLU:CA	1:C:44:THR:OG1	2.44	0.66
1:A:810:TRP:CZ2	1:A:880:ALA:HB2	2.31	0.66
1:A:786:ARG:HG3	1:A:934:GLU:HG2	1.77	0.66
1:C:987:ASP:OD1	1:C:989:PHE:O	2.13	0.66
1:A:628:GLN:HA	1:A:628:GLN:OE1	1.96	0.66
1:C:764:PHE:CD1	1:C:781:ARG:CD	2.79	0.66
1:D:764:PHE:CD1	1:D:781:ARG:CD	2.79	0.66
1:A:764:PHE:HD1	1:A:781:ARG:CD	2.09	0.66
1:B:764:PHE:CZ	1:B:840:HIS:ND1	2.60	0.66
1:C:36:TRP:O	1:C:325:ALA:HB3	1.96	0.66
1:D:60:PHE:HB2	1:D:84:VAL:HG22	1.77	0.66
1:D:7:LEU:HD22	1:D:71:GLU:CA	2.16	0.66
1:C:209:PHE:O	1:C:366:VAL:HG22	1.96	0.66
1:C:750:GLU:HG3	1:C:755:ARG:HD2	1.77	0.66
1:B:73:TRP:O	1:B:76:CYS:O	2.13	0.66
1:C:73:TRP:CD1	1:C:183:ARG:NH2	2.62	0.66
1:A:619:GLU:OE1	1:A:912:ALA:HB2	1.96	0.66
1:D:37:ARG:CZ	1:D:218:PRO:HD3	2.25	0.66
1:D:369:GLU:HG2	1:D:397:LEU:HD21	1.77	0.66
1:C:738:PRO:HB2	1:C:834:VAL:HG23	1.76	0.66
1:A:474:TRP:HB2	1:D:470:ALA:HB2	1.78	0.66
1:C:950:GLN:HG2	1:C:952:ARG:HH22	1.60	0.66
1:B:810:TRP:CZ2	1:B:880:ALA:HB2	2.31	0.66
1:D:701:VAL:HG22	1:D:714:ILE:HG12	1.76	0.66
1:C:128:ASN:OD1	1:C:181:GLU:CB	2.44	0.66
1:D:128:ASN:OD1	1:D:181:GLU:CB	2.44	0.66
1:A:764:PHE:CD1	1:A:781:ARG:CD	2.79	0.66
1:B:764:PHE:CD1	1:B:781:ARG:CD	2.79	0.66
1:D:33:PHE:CE2	1:D:217:LYS:NZ	2.64	0.66
1:D:36:TRP:O	1:D:325:ALA:HB3	1.96	0.66
1:B:33:PHE:CE2	1:B:217:LYS:NZ	2.64	0.66
1:A:33:PHE:CE2	1:A:217:LYS:NZ	2.64	0.66
1:B:755:ARG:O	1:B:769:TRP:HB2	1.96	0.66
1:A:755:ARG:O	1:A:769:TRP:HB2	1.96	0.66
1:A:73:TRP:O	1:A:76:CYS:O	2.13	0.66
1:B:619:GLU:OE1	1:B:912:ALA:HB2	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:738:PRO:HB2	1:A:834:VAL:HG23	1.76	0.66
1:B:738:PRO:HB2	1:B:834:VAL:HG23	1.76	0.66
1:C:473:ARG:NE	1:C:473:ARG:HA	2.10	0.66
1:D:473:ARG:HA	1:D:473:ARG:NE	2.10	0.66
1:A:128:ASN:OD1	1:A:181:GLU:CB	2.44	0.65
1:C:33:PHE:CE2	1:C:217:LYS:NZ	2.64	0.65
1:D:395:HIS:CE1	1:D:396:PRO:HG2	2.31	0.65
1:B:900:LEU:HB2	1:B:905:ASN:ND2	2.09	0.65
1:D:619:GLU:OE1	1:D:912:ALA:HB2	1.96	0.65
1:C:619:GLU:OE1	1:C:912:ALA:HB2	1.96	0.65
1:D:37:ARG:O	1:D:322:LEU:CD1	2.40	0.65
1:C:37:ARG:O	1:C:322:LEU:CD1	2.40	0.65
1:C:723:ALA:CB	1:D:875:ASP:HB2	2.26	0.65
1:C:875:ASP:HB2	1:D:723:ALA:CB	2.26	0.65
1:A:377:LEU:HD22	1:A:708:TRP:HA	1.78	0.65
1:B:377:LEU:HD22	1:B:708:TRP:HA	1.78	0.65
1:B:786:ARG:HG3	1:B:934:GLU:HG2	1.77	0.65
1:B:906:TYR:CE2	1:B:934:GLU:OE2	2.50	0.65
1:A:906:TYR:CE2	1:A:934:GLU:OE2	2.49	0.65
1:A:674:PRO:O	1:A:675:GLN:HB2	1.96	0.65
1:B:674:PRO:O	1:B:675:GLN:HB2	1.96	0.65
1:B:128:ASN:OD1	1:B:181:GLU:CB	2.44	0.65
1:B:33:PHE:CB	1:B:326:GLU:OE1	2.38	0.65
1:D:724:GLU:OE2	1:D:725:ASN:O	2.15	0.65
1:C:724:GLU:OE2	1:C:725:ASN:O	2.15	0.65
1:C:395:HIS:CE1	1:C:396:PRO:HG2	2.30	0.65
1:D:750:GLU:HG3	1:D:755:ARG:HD2	1.77	0.65
1:D:73:TRP:CD1	1:D:183:ARG:NH2	2.62	0.65
1:D:550:ALA:CB	1:D:623:GLN:HE22	2.09	0.65
1:B:601:PHE:HZ	1:B:998:SER:HB3	1.60	0.65
1:B:474:TRP:HB2	1:C:470:ALA:HB2	1.78	0.65
1:C:674:PRO:O	1:C:675:GLN:HB2	1.96	0.65
1:C:701:VAL:HG22	1:C:714:ILE:HG12	1.76	0.65
1:C:433:LEU:HD13	1:C:467:ASN:ND2	2.11	0.65
1:D:433:LEU:HD13	1:D:467:ASN:ND2	2.11	0.65
1:A:433:LEU:HD13	1:A:467:ASN:ND2	2.11	0.65
1:D:353:GLY:O	1:D:566:PHE:CA	2.44	0.65
1:C:353:GLY:O	1:C:566:PHE:CA	2.44	0.65
1:C:691:ALA:HB3	1:C:727:SER:HB2	1.68	0.65
1:A:89:ASN:HD22	1:A:205:MET:CE	2.08	0.65
1:B:395:HIS:CE1	1:B:396:PRO:HG2	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:755:ARG:O	1:D:769:TRP:HB2	1.96	0.65
1:D:355:ASN:HD21	1:D:537:GLU:HG2	1.62	0.65
1:C:355:ASN:HD21	1:C:537:GLU:HG2	1.62	0.65
1:C:369:GLU:HA	1:C:372:MET:HE3	1.78	0.65
1:C:369:GLU:HG2	1:C:397:LEU:HD21	1.77	0.65
1:A:407:LEU:H	1:A:407:LEU:CD1	2.09	0.65
1:B:407:LEU:CD1	1:B:407:LEU:H	2.09	0.65
1:D:369:GLU:HA	1:D:372:MET:HE3	1.78	0.65
1:D:407:LEU:CD1	1:D:407:LEU:H	2.09	0.65
1:C:407:LEU:CD1	1:C:407:LEU:H	2.09	0.65
1:D:276:GLY:HA3	1:D:277:GLU:OE1	1.97	0.65
1:C:276:GLY:HA3	1:C:277:GLU:OE1	1.97	0.65
1:D:674:PRO:O	1:D:675:GLN:HB2	1.96	0.65
1:B:433:LEU:HD13	1:B:467:ASN:ND2	2.11	0.65
1:B:353:GLY:O	1:B:566:PHE:CA	2.44	0.65
1:C:824:GLN:HE22	1:C:826:THR:HG23	1.61	0.65
1:A:395:HIS:CE1	1:A:396:PRO:HG2	2.31	0.65
1:A:105:TYR:HH	1:A:420:MET:HG2	1.60	0.65
1:C:755:ARG:O	1:C:769:TRP:HB2	1.96	0.65
1:C:550:ALA:CB	1:C:623:GLN:HE22	2.09	0.65
1:B:22:THR:C	1:B:163:GLN:CB	2.63	0.65
1:A:900:LEU:HB2	1:A:905:ASN:ND2	2.09	0.65
1:B:37:ARG:O	1:B:322:LEU:CD1	2.40	0.65
1:A:601:PHE:HZ	1:A:998:SER:HB3	1.60	0.65
1:A:54:LEU:HD21	1:A:214:LEU:HD13	1.77	0.65
1:A:369:GLU:HA	1:A:372:MET:HE3	1.79	0.65
1:A:35:SER:CB	1:A:215:LEU:HD11	2.27	0.65
1:A:501:PRO:HB3	1:A:523:TRP:CZ3	2.31	0.65
1:A:824:GLN:NE2	1:A:826:THR:CG2	2.60	0.65
1:D:254:LEU:C	1:D:255:ARG:CD	2.65	0.65
1:B:36:TRP:CZ2	1:B:42:ALA:CB	2.79	0.65
1:A:253:TYR:C	1:A:255:ARG:HD3	2.17	0.65
1:A:33:PHE:CB	1:A:326:GLU:OE1	2.38	0.65
1:B:724:GLU:OE2	1:B:725:ASN:O	2.15	0.65
1:B:89:ASN:HD22	1:B:205:MET:CE	2.08	0.65
1:A:37:ARG:O	1:A:322:LEU:CD1	2.40	0.65
1:B:355:ASN:O	1:B:569:ASP:OD1	2.14	0.65
1:C:241:GLU:HB3	1:C:292:ARG:HG2	1.77	0.65
1:D:241:GLU:HB3	1:D:292:ARG:HG2	1.77	0.65
1:C:723:ALA:CA	1:D:875:ASP:HB2	2.26	0.65
1:B:54:LEU:HD21	1:B:214:LEU:HD13	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:35:SER:CB	1:B:215:LEU:HD11	2.27	0.65
1:C:35:SER:HB3	1:C:215:LEU:HD11	1.76	0.65
1:D:35:SER:HB3	1:D:215:LEU:HD11	1.76	0.65
1:B:824:GLN:NE2	1:B:826:THR:CG2	2.60	0.65
1:A:353:GLY:O	1:A:566:PHE:CA	2.44	0.65
1:D:824:GLN:HE22	1:D:826:THR:HG23	1.61	0.65
1:B:253:TYR:C	1:B:255:ARG:HD3	2.17	0.65
1:A:36:TRP:CZ2	1:A:42:ALA:CB	2.79	0.65
1:D:691:ALA:HB3	1:D:727:SER:HB2	1.68	0.65
1:A:750:GLU:HG3	1:A:755:ARG:HD2	1.77	0.65
1:A:22:THR:C	1:A:163:GLN:CB	2.63	0.65
1:A:355:ASN:O	1:A:569:ASP:OD1	2.14	0.65
1:B:942:ARG:HG3	1:B:942:ARG:NH2	2.08	0.65
1:C:875:ASP:HB2	1:D:723:ALA:CA	2.26	0.65
1:C:906:TYR:CE2	1:C:934:GLU:OE2	2.49	0.65
1:B:501:PRO:HB3	1:B:523:TRP:CZ3	2.31	0.65
1:C:254:LEU:C	1:C:255:ARG:CD	2.65	0.65
1:A:724:GLU:OE2	1:A:725:ASN:O	2.15	0.65
1:D:420:MET:SD	1:D:426:LEU:HG	2.37	0.65
1:C:420:MET:SD	1:C:426:LEU:HG	2.37	0.65
1:A:420:MET:SD	1:A:426:LEU:HG	2.37	0.65
1:B:750:GLU:HG3	1:B:755:ARG:HD2	1.77	0.65
1:A:509:ASP:OD1	1:A:522:LYS:HD3	1.96	0.65
1:B:550:ALA:CB	1:B:623:GLN:HE22	2.09	0.65
1:A:37:ARG:CZ	1:A:218:PRO:HD3	2.25	0.65
1:B:615:PRO:CB	1:B:904:GLU:OE2	2.45	0.65
1:B:37:ARG:CZ	1:B:218:PRO:HD3	2.25	0.65
1:A:942:ARG:NH2	1:A:942:ARG:HG3	2.07	0.65
1:B:509:ASP:OD1	1:B:522:LYS:HD3	1.96	0.65
1:D:810:TRP:CZ2	1:D:880:ALA:HB2	2.31	0.65
1:A:395:HIS:CE1	1:A:396:PRO:CD	2.67	0.65
1:B:420:MET:SD	1:B:426:LEU:HG	2.37	0.65
1:D:355:ASN:O	1:D:569:ASP:OD1	2.14	0.65
1:A:615:PRO:CB	1:A:904:GLU:OE2	2.45	0.65
1:B:670:LEU:HD11	1:B:672:VAL:CG2	2.27	0.65
1:A:369:GLU:HG2	1:A:397:LEU:HD21	1.77	0.65
1:A:276:GLY:HA3	1:A:277:GLU:OE1	1.97	0.65
1:C:786:ARG:HG3	1:C:934:GLU:HG2	1.77	0.65
1:D:786:ARG:HG3	1:D:934:GLU:HG2	1.77	0.65
1:D:906:TYR:CE2	1:D:934:GLU:OE2	2.50	0.65
1:D:35:SER:CB	1:D:215:LEU:HD11	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:815:HIS:HE1	1:A:850:PHE:CE2	2.14	0.65
1:B:815:HIS:HE1	1:B:850:PHE:CE2	2.14	0.65
1:C:224:ASP:OD1	1:C:225:PHE:N	2.29	0.65
1:D:603:MET:CE	1:D:930:VAL:CG2	2.73	0.65
1:D:55:ASN:OD1	1:D:87:PRO:HD3	1.97	0.65
1:C:54:LEU:HD21	1:C:214:LEU:HD13	1.77	0.65
1:A:209:PHE:O	1:A:366:VAL:HG22	1.96	0.65
1:A:550:ALA:CB	1:A:623:GLN:HE22	2.09	0.65
1:C:355:ASN:O	1:C:569:ASP:OD1	2.14	0.65
1:D:898:LEU:HD23	1:D:898:LEU:O	1.97	0.65
1:C:898:LEU:O	1:C:898:LEU:HD23	1.97	0.65
1:D:867:THR:CG2	1:D:1017:GLN:OE1	2.37	0.65
1:A:55:ASN:OD1	1:A:87:PRO:HD3	1.97	0.65
1:A:670:LEU:HD11	1:A:672:VAL:CG2	2.27	0.65
1:B:276:GLY:HA3	1:B:277:GLU:OE1	1.97	0.65
1:C:810:TRP:CZ2	1:C:880:ALA:HB2	2.31	0.65
1:C:824:GLN:NE2	1:C:826:THR:CG2	2.60	0.65
1:C:603:MET:CE	1:C:930:VAL:CG2	2.73	0.65
1:C:55:ASN:OD1	1:C:87:PRO:HD3	1.97	0.65
1:B:540:HIS:CD2	1:B:568:TRP:CD1	2.85	0.65
1:A:540:HIS:CD2	1:A:568:TRP:CD1	2.85	0.65
1:C:629:PHE:HD2	1:C:638:VAL:HG22	1.62	0.65
1:C:628:GLN:OE1	1:C:628:GLN:HA	1.96	0.65
1:C:35:SER:CB	1:C:215:LEU:HD11	2.27	0.65
1:A:164:ASP:OD1	1:A:439:ARG:HG3	1.97	0.65
1:B:164:ASP:OD1	1:B:439:ARG:HG3	1.97	0.65
1:D:224:ASP:OD1	1:D:225:PHE:N	2.29	0.64
1:D:824:GLN:NE2	1:D:826:THR:CG2	2.60	0.64
1:D:54:LEU:HD21	1:D:214:LEU:HD13	1.77	0.64
1:B:209:PHE:O	1:B:366:VAL:HG22	1.96	0.64
1:B:755:ARG:HB2	1:B:769:TRP:CB	2.27	0.64
1:C:350:LEU:HD23	1:C:641:GLU:OE2	1.97	0.64
1:B:55:ASN:OD1	1:B:87:PRO:HD3	1.97	0.64
1:B:369:GLU:HG2	1:B:397:LEU:HD21	1.77	0.64
1:D:257:THR:OG1	1:D:271:THR:HG23	1.97	0.64
1:A:254:LEU:C	1:A:255:ARG:CD	2.65	0.64
1:B:395:HIS:CE1	1:B:396:PRO:CD	2.67	0.64
1:A:755:ARG:HB2	1:A:769:TRP:CB	2.27	0.64
1:A:500:CYS:HA	1:A:534:ILE:O	1.97	0.64
1:D:615:PRO:HB3	1:D:904:GLU:HG3	1.80	0.64
1:D:350:LEU:HD23	1:D:641:GLU:OE2	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:867:THR:CG2	1:C:1017:GLN:OE1	2.37	0.64
1:D:509:ASP:OD1	1:D:522:LYS:HD3	1.96	0.64
1:C:509:ASP:OD1	1:C:522:LYS:HD3	1.96	0.64
1:D:629:PHE:HD2	1:D:638:VAL:HG22	1.62	0.64
1:D:628:GLN:OE1	1:D:628:GLN:HA	1.96	0.64
1:C:257:THR:OG1	1:C:271:THR:HG23	1.98	0.64
1:C:34:ALA:CB	1:C:36:TRP:CZ3	2.80	0.64
1:D:34:ALA:CB	1:D:36:TRP:CZ3	2.80	0.64
1:B:254:LEU:C	1:B:255:ARG:CD	2.65	0.64
1:A:417:THR:HG23	1:A:420:MET:CG	2.27	0.64
1:B:417:THR:HG23	1:B:420:MET:CG	2.27	0.64
1:B:500:CYS:HA	1:B:534:ILE:O	1.97	0.64
1:D:755:ARG:HB2	1:D:769:TRP:CB	2.27	0.64
1:B:599:ARG:HG2	1:B:600:GLN:H	1.62	0.64
1:C:615:PRO:HB3	1:C:904:GLU:HG3	1.80	0.64
1:A:355:ASN:HD21	1:A:537:GLU:HG2	1.62	0.64
1:B:350:LEU:HD23	1:B:641:GLU:OE2	1.97	0.64
1:B:629:PHE:HD2	1:B:638:VAL:HG22	1.62	0.64
1:B:159:VAL:CB	1:B:176:PHE:HE1	2.10	0.64
1:C:755:ARG:HB2	1:C:769:TRP:CB	2.27	0.64
1:C:599:ARG:HG2	1:C:600:GLN:H	1.62	0.64
1:C:615:PRO:O	1:C:618:THR:HG22	1.98	0.64
1:A:599:ARG:HG2	1:A:600:GLN:H	1.62	0.64
1:D:908:ASP:CG	1:D:1007:PHE:CE1	2.71	0.64
1:C:908:ASP:CG	1:C:1007:PHE:CE1	2.71	0.64
1:A:350:LEU:HD23	1:A:641:GLU:OE2	1.97	0.64
1:C:337:ILE:CD1	1:C:483:PRO:HB3	2.27	0.64
1:D:337:ILE:CD1	1:D:483:PRO:HB3	2.27	0.64
1:B:993:ILE:HG13	1:B:994:GLY:O	1.98	0.64
1:A:629:PHE:HD2	1:A:638:VAL:HG22	1.62	0.64
1:C:693:GLN:HE21	1:C:721:ARG:CB	2.08	0.64
1:D:540:HIS:CD2	1:D:568:TRP:CD1	2.85	0.64
1:D:615:PRO:O	1:D:618:THR:HG22	1.98	0.64
1:B:355:ASN:HD21	1:B:537:GLU:HG2	1.62	0.64
1:D:485:GLN:OE1	1:D:498:ILE:HD11	1.98	0.64
1:C:485:GLN:OE1	1:C:498:ILE:HD11	1.98	0.64
1:A:737:ILE:CD1	1:A:832:ASP:HA	2.25	0.64
1:B:737:ILE:CD1	1:B:832:ASP:HA	2.25	0.64
1:A:993:ILE:HG13	1:A:994:GLY:O	1.98	0.64
1:A:159:VAL:CB	1:A:176:PHE:HE1	2.10	0.64
1:D:775:GLN:HA	1:D:775:GLN:OE1	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:775:GLN:HA	1:C:775:GLN:OE1	1.98	0.64
1:A:723:ALA:CB	1:B:875:ASP:HB2	2.27	0.64
1:D:601:PHE:CE1	1:D:998:SER:CB	2.81	0.64
1:C:540:HIS:CD2	1:C:568:TRP:CD1	2.85	0.64
1:C:601:PHE:CE1	1:C:998:SER:CB	2.81	0.64
1:A:801:ILE:CG2	1:A:808:GLU:CD	2.64	0.64
1:A:146:VAL:O	1:A:165:SER:HB2	1.97	0.64
1:A:970:THR:CG2	1:A:976:LEU:CD2	2.76	0.64
1:D:599:ARG:HG2	1:D:600:GLN:H	1.62	0.64
1:B:801:ILE:CG2	1:B:808:GLU:CD	2.64	0.64
1:A:352:ARG:NH2	1:A:641:GLU:HG2	2.12	0.64
1:B:908:ASP:CG	1:B:1007:PHE:CE1	2.71	0.64
1:A:908:ASP:CG	1:A:1007:PHE:CE1	2.71	0.64
1:C:670:LEU:HD11	1:C:672:VAL:CG2	2.27	0.64
1:C:993:ILE:HG13	1:C:994:GLY:O	1.98	0.64
1:C:164:ASP:OD1	1:C:439:ARG:HG3	1.97	0.64
1:C:970:THR:CG2	1:C:976:LEU:CD2	2.76	0.64
1:A:281:GLU:CB	1:D:515:VAL:HG21	2.22	0.64
1:D:54:LEU:HD21	1:D:214:LEU:HD11	1.80	0.64
1:C:54:LEU:HD21	1:C:214:LEU:HD11	1.80	0.64
1:D:500:CYS:HA	1:D:534:ILE:O	1.97	0.64
1:B:615:PRO:O	1:B:618:THR:HG22	1.98	0.64
1:B:440:VAL:HG11	1:B:458:LEU:CD2	2.28	0.64
1:B:146:VAL:O	1:B:165:SER:HB2	1.97	0.64
1:C:293:LEU:HD12	1:C:293:LEU:N	2.13	0.64
1:D:993:ILE:HG13	1:D:994:GLY:O	1.98	0.64
1:D:164:ASP:OD1	1:D:439:ARG:HG3	1.97	0.64
1:C:36:TRP:CZ2	1:C:42:ALA:CB	2.79	0.64
1:D:970:THR:CG2	1:D:976:LEU:CD2	2.76	0.64
1:B:970:THR:CG2	1:B:976:LEU:CD2	2.76	0.64
1:B:281:GLU:CB	1:C:515:VAL:HG21	2.22	0.64
1:B:601:PHE:CE1	1:B:998:SER:CB	2.81	0.64
1:B:352:ARG:NH2	1:B:641:GLU:HG2	2.12	0.64
1:A:875:ASP:HB2	1:B:723:ALA:CB	2.27	0.64
1:D:440:VAL:HG11	1:D:458:LEU:CD2	2.28	0.64
1:C:440:VAL:HG11	1:C:458:LEU:CD2	2.28	0.64
1:D:293:LEU:HD12	1:D:293:LEU:N	2.13	0.64
1:D:795:VAL:HG12	1:D:800:ARG:HH22	1.63	0.64
1:B:987:ASP:CG	1:B:989:PHE:O	2.36	0.64
1:A:987:ASP:CG	1:A:989:PHE:O	2.36	0.64
1:D:36:TRP:CZ2	1:D:42:ALA:CB	2.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:824:GLN:HE22	1:C:825:CYS:CA	2.10	0.64
1:B:293:LEU:HD12	1:B:293:LEU:N	2.13	0.64
1:D:114:VAL:HB	1:D:115:PRO:HD2	1.78	0.64
1:A:615:PRO:O	1:A:618:THR:HG22	1.98	0.64
1:A:601:PHE:CE1	1:A:998:SER:CB	2.81	0.64
1:A:705:ALA:CB	1:A:709:SER:O	2.45	0.64
1:A:440:VAL:HG11	1:A:458:LEU:CD2	2.28	0.64
1:D:670:LEU:HD11	1:D:672:VAL:CG2	2.27	0.64
1:C:795:VAL:HG12	1:C:800:ARG:HH22	1.63	0.64
1:A:257:THR:OG1	1:A:271:THR:HG23	1.97	0.64
1:C:159:VAL:CB	1:C:176:PHE:HE1	2.10	0.63
1:D:159:VAL:CB	1:D:176:PHE:HE1	2.10	0.63
1:A:293:LEU:N	1:A:293:LEU:HD12	2.13	0.63
1:A:723:ALA:CA	1:B:875:ASP:HB2	2.27	0.63
1:C:114:VAL:HB	1:C:115:PRO:HD2	1.78	0.63
1:C:341:LEU:HD22	1:C:563:GLN:HE21	1.60	0.63
1:C:500:CYS:HA	1:C:534:ILE:O	1.97	0.63
1:B:705:ALA:CB	1:B:709:SER:O	2.45	0.63
1:A:343:LEU:HD22	1:A:347:LYS:N	2.13	0.63
1:B:343:LEU:HD22	1:B:347:LYS:N	2.13	0.63
1:B:906:TYR:CG	1:B:993:ILE:CG2	2.82	0.63
1:B:257:THR:OG1	1:B:271:THR:HG23	1.97	0.63
1:C:427:THR:HB	1:C:436:MET:HE1	1.72	0.63
1:A:766:SER:HA	1:A:779:PRO:HB3	1.80	0.63
1:D:824:GLN:HE22	1:D:825:CYS:CA	2.10	0.63
1:B:275:GLY:CA	1:B:288:ARG:O	2.47	0.63
1:A:275:GLY:CA	1:A:288:ARG:O	2.47	0.63
1:A:898:LEU:O	1:A:898:LEU:HD23	1.97	0.63
1:A:875:ASP:HB2	1:B:723:ALA:CA	2.27	0.63
1:D:887:GLN:OE1	1:D:983:TRP:NE1	2.31	0.63
1:A:906:TYR:CG	1:A:993:ILE:CG2	2.82	0.63
1:B:766:SER:HA	1:B:779:PRO:HB3	1.80	0.63
1:B:34:ALA:CB	1:B:36:TRP:CZ3	2.80	0.63
1:A:34:ALA:CB	1:A:36:TRP:CZ3	2.80	0.63
1:C:657:ALA:CA	1:C:661:LYS:O	2.46	0.63
1:D:390:SER:CA	1:D:391:HIS:ND1	2.51	0.63
1:D:91:GLN:HG3	1:D:190:ARG:HH21	1.51	0.63
1:B:114:VAL:HB	1:B:115:PRO:HD2	1.78	0.63
1:B:898:LEU:O	1:B:898:LEU:HD23	1.97	0.63
1:D:440:VAL:CG1	1:D:475:ILE:HD11	2.29	0.63
1:C:440:VAL:CG1	1:C:475:ILE:HD11	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:834:VAL:HG12	1:D:836:ILE:HD11	1.80	0.63
1:C:887:GLN:OE1	1:C:983:TRP:NE1	2.31	0.63
1:A:337:ILE:CD1	1:A:483:PRO:HB3	2.27	0.63
1:A:903:GLN:HA	1:A:903:GLN:OE1	1.99	0.63
1:B:903:GLN:HA	1:B:903:GLN:OE1	1.99	0.63
1:B:824:GLN:NE2	1:B:825:CYS:HA	2.10	0.63
1:A:824:GLN:NE2	1:A:825:CYS:HA	2.10	0.63
1:C:246:MET:SD	1:C:274:PHE:CE2	2.83	0.63
1:C:275:GLY:CA	1:C:288:ARG:O	2.47	0.63
1:D:246:MET:SD	1:D:274:PHE:CE2	2.83	0.63
1:C:390:SER:CA	1:C:391:HIS:ND1	2.51	0.63
1:A:114:VAL:HB	1:A:115:PRO:HD2	1.78	0.63
1:D:341:LEU:HD22	1:D:563:GLN:HE21	1.60	0.63
1:B:788:PRO:HB2	1:B:793:ILE:HD11	1.81	0.63
1:D:615:PRO:CB	1:D:904:GLU:OE2	2.45	0.63
1:A:788:PRO:HB2	1:A:793:ILE:HD11	1.81	0.63
1:A:485:GLN:OE1	1:A:498:ILE:HD11	1.98	0.63
1:B:485:GLN:OE1	1:B:498:ILE:HD11	1.98	0.63
1:C:834:VAL:HG12	1:C:836:ILE:HD11	1.80	0.63
1:C:854:LYS:HD3	1:C:856:TYR:HH	1.62	0.63
1:D:854:LYS:HD3	1:D:856:TYR:HH	1.62	0.63
1:B:41:GLU:CA	1:B:44:THR:OG1	2.44	0.63
1:D:275:GLY:CA	1:D:288:ARG:O	2.47	0.63
1:D:657:ALA:CA	1:D:661:LYS:O	2.46	0.63
1:A:657:ALA:CA	1:A:661:LYS:O	2.46	0.63
1:B:601:PHE:O	1:B:604:ASN:ND2	2.31	0.63
1:B:615:PRO:HB3	1:B:904:GLU:HG3	1.80	0.63
1:C:601:PHE:O	1:C:604:ASN:ND2	2.31	0.63
1:C:615:PRO:CB	1:C:904:GLU:OE2	2.45	0.63
1:A:615:PRO:HB3	1:A:904:GLU:HG3	1.80	0.63
1:D:146:VAL:O	1:D:165:SER:HB2	1.97	0.63
1:A:63:PHE:CE2	1:A:70:PRO:HD3	2.33	0.63
1:B:337:ILE:CD1	1:B:483:PRO:HB3	2.27	0.63
1:D:971:SER:OG	1:D:972:HIS:ND1	1.95	0.63
1:B:657:ALA:CA	1:B:661:LYS:O	2.46	0.63
1:D:107:ILE:CG2	1:D:191:TRP:CD2	2.82	0.63
1:B:21:VAL:HG11	1:B:24:LEU:CD2	2.24	0.63
1:A:601:PHE:O	1:A:604:ASN:ND2	2.31	0.63
1:D:939:CYS:HG	1:D:956:GLN:HG2	1.61	0.63
1:A:520:ILE:HG22	1:A:562:LEU:HD21	1.81	0.63
1:B:63:PHE:CE2	1:B:70:PRO:HD3	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:41:GLU:CA	1:A:44:THR:OG1	2.44	0.63
1:C:766:SER:O	1:C:776:LEU:CD1	2.45	0.63
1:D:106:PRO:HD3	1:D:204:ARG:NH1	2.14	0.63
1:C:106:PRO:HD3	1:C:204:ARG:NH1	2.14	0.63
1:A:783:GLN:NE2	1:A:881:ARG:HD2	2.14	0.63
1:D:601:PHE:O	1:D:604:ASN:ND2	2.31	0.63
1:B:520:ILE:HG22	1:B:562:LEU:HD21	1.81	0.63
1:C:867:THR:HG23	1:C:1017:GLN:CD	2.19	0.63
1:B:54:LEU:HD21	1:B:214:LEU:HD11	1.80	0.63
1:C:178:ARG:H	1:C:182:ASN:HD21	1.45	0.63
1:C:107:ILE:CG2	1:C:191:TRP:CD2	2.82	0.63
1:A:21:VAL:HG11	1:A:24:LEU:CD2	2.24	0.63
1:B:783:GLN:NE2	1:B:881:ARG:HD2	2.14	0.63
1:D:541:ALA:HB2	1:D:606:LEU:CD1	2.29	0.63
1:B:867:THR:HG23	1:B:1017:GLN:NE2	2.14	0.63
1:D:867:THR:HG23	1:D:1017:GLN:CD	2.19	0.63
1:C:146:VAL:O	1:C:165:SER:HB2	1.97	0.63
1:A:54:LEU:HD21	1:A:214:LEU:HD11	1.80	0.63
1:B:899:GLY:HA3	1:B:941:THR:HG22	1.80	0.63
1:D:766:SER:O	1:D:776:LEU:CD1	2.45	0.63
1:D:654:TRP:CD1	1:D:666:GLY:O	2.52	0.63
1:C:654:TRP:CD1	1:C:666:GLY:O	2.52	0.63
1:C:196:TYR:HB3	1:C:426:LEU:HD11	1.81	0.63
1:C:91:GLN:HG3	1:C:190:ARG:HH21	1.51	0.63
1:A:190:ARG:HA	1:A:206:SER:HB2	1.81	0.63
1:B:107:ILE:CG2	1:B:191:TRP:CD2	2.82	0.63
1:B:190:ARG:HA	1:B:206:SER:HB2	1.81	0.63
1:C:541:ALA:HB2	1:C:606:LEU:CD1	2.29	0.63
1:D:942:ARG:O	1:D:953:GLY:O	2.17	0.63
1:C:942:ARG:O	1:C:953:GLY:O	2.17	0.63
1:A:887:GLN:OE1	1:A:983:TRP:NE1	2.31	0.63
1:B:887:GLN:OE1	1:B:983:TRP:NE1	2.31	0.63
1:C:815:HIS:HE1	1:C:850:PHE:CE2	2.14	0.62
1:A:107:ILE:CG2	1:A:191:TRP:CD2	2.82	0.62
1:A:12:GLN:NE2	1:D:4:THR:HG23	2.14	0.62
1:A:867:THR:HG23	1:A:1017:GLN:NE2	2.14	0.62
1:A:899:GLY:HA3	1:A:941:THR:HG22	1.80	0.62
1:C:906:TYR:CG	1:C:993:ILE:CG2	2.82	0.62
1:B:668:VAL:HG13	1:B:669:PRO:HD2	1.81	0.62
1:D:903:GLN:OE1	1:D:903:GLN:HA	1.99	0.62
1:C:903:GLN:HA	1:C:903:GLN:OE1	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:971:SER:OG	1:C:972:HIS:ND1	1.95	0.62
1:D:196:TYR:HB3	1:D:426:LEU:HD11	1.81	0.62
1:D:358:GLU:CB	1:D:367:MET:HE3	2.24	0.62
1:B:767:GLN:NE2	1:B:774:LYS:HB3	2.14	0.62
1:A:767:GLN:NE2	1:A:774:LYS:HB3	2.14	0.62
1:C:767:GLN:NE2	1:C:774:LYS:HB3	2.14	0.62
1:D:382:ASN:CG	1:D:617:LEU:HD21	2.20	0.62
1:D:520:ILE:HG22	1:D:562:LEU:HD21	1.81	0.62
1:D:906:TYR:CG	1:D:993:ILE:CG2	2.82	0.62
1:A:668:VAL:HG13	1:A:669:PRO:HD2	1.81	0.62
1:D:178:ARG:H	1:D:182:ASN:HD21	1.45	0.62
1:D:417:THR:HG23	1:D:420:MET:CG	2.27	0.62
1:C:417:THR:HG23	1:C:420:MET:CG	2.27	0.62
1:A:750:GLU:CG	1:A:755:ARG:HD2	2.29	0.62
1:C:382:ASN:CG	1:C:617:LEU:HD21	2.20	0.62
1:C:343:LEU:HD22	1:C:347:LYS:N	2.13	0.62
1:C:63:PHE:CE2	1:C:70:PRO:HD3	2.33	0.62
1:D:815:HIS:HE1	1:D:850:PHE:CE2	2.14	0.62
1:B:775:GLN:HA	1:B:775:GLN:OE1	1.98	0.62
1:B:251:ARG:HG3	1:B:253:TYR:CE2	2.35	0.62
1:B:654:TRP:CD1	1:B:666:GLY:O	2.52	0.62
1:C:111:PRO:HA	1:C:196:TYR:CE2	2.31	0.62
1:B:750:GLU:CG	1:B:755:ARG:HD2	2.29	0.62
1:D:750:GLU:HG3	1:D:755:ARG:CD	2.30	0.62
1:D:767:GLN:NE2	1:D:774:LYS:HB3	2.15	0.62
1:C:996:ASP:H	1:C:1002:SER:CB	2.12	0.62
1:D:996:ASP:H	1:D:1002:SER:CB	2.12	0.62
1:D:961:ARG:HB3	1:D:978:ALA:HB1	1.81	0.62
1:D:786:ARG:HE	1:D:880:ALA:HB1	1.60	0.62
1:D:987:ASP:CG	1:D:989:PHE:O	2.36	0.62
1:B:1015:HIS:HD2	1:B:1016:TYR:N	1.98	0.62
1:A:178:ARG:H	1:A:182:ASN:HD21	1.45	0.62
1:D:970:THR:CG2	1:D:976:LEU:HD23	2.29	0.62
1:B:33:PHE:HB3	1:B:326:GLU:OE2	1.89	0.62
1:A:251:ARG:HG3	1:A:253:TYR:CE2	2.35	0.62
1:A:253:TYR:O	1:A:255:ARG:NE	2.32	0.62
1:A:654:TRP:CD1	1:A:666:GLY:O	2.52	0.62
1:A:106:PRO:HD3	1:A:204:ARG:NH1	2.14	0.62
1:B:12:GLN:NE2	1:C:4:THR:HG23	2.14	0.62
1:A:768:MET:SD	1:A:1020:TRP:HZ3	2.20	0.62
1:C:750:GLU:CG	1:C:755:ARG:HD2	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:750:GLU:HG3	1:C:755:ARG:CD	2.30	0.62
1:C:961:ARG:HB3	1:C:978:ALA:HB1	1.81	0.62
1:A:382:ASN:CG	1:A:617:LEU:HD21	2.20	0.62
1:B:382:ASN:CG	1:B:617:LEU:HD21	2.20	0.62
1:C:520:ILE:HG22	1:C:562:LEU:HD21	1.81	0.62
1:D:343:LEU:HD22	1:D:347:LYS:N	2.13	0.62
1:C:987:ASP:CG	1:C:989:PHE:O	2.36	0.62
1:A:775:GLN:OE1	1:A:775:GLN:HA	1.98	0.62
1:C:970:THR:CG2	1:C:976:LEU:HD23	2.29	0.62
1:B:253:TYR:O	1:B:255:ARG:NE	2.32	0.62
1:D:111:PRO:HA	1:D:196:TYR:CE2	2.31	0.62
1:D:211:ASP:OD1	1:D:212:VAL:N	2.33	0.62
1:C:211:ASP:OD1	1:C:212:VAL:N	2.33	0.62
1:B:106:PRO:HD3	1:B:204:ARG:NH1	2.14	0.62
1:B:768:MET:SD	1:B:1020:TRP:HZ3	2.20	0.62
1:A:518:TRP:CE3	1:A:522:LYS:HE2	2.35	0.62
1:B:942:ARG:O	1:B:953:GLY:O	2.17	0.62
1:D:867:THR:HG23	1:D:1017:GLN:NE2	2.14	0.62
1:B:518:TRP:CE3	1:B:522:LYS:HE2	2.35	0.62
1:A:401:LEU:HD23	1:A:404:ARG:NH2	2.15	0.62
1:B:401:LEU:HD23	1:B:404:ARG:NH2	2.15	0.62
1:C:795:VAL:O	1:C:795:VAL:HG12	1.99	0.62
1:D:795:VAL:O	1:D:795:VAL:HG12	1.99	0.62
1:A:1015:HIS:HD2	1:A:1016:TYR:N	1.98	0.62
1:C:360:HIS:O	1:C:364:GLY:N	2.33	0.62
1:D:360:HIS:O	1:D:364:GLY:N	2.33	0.62
1:B:420:MET:HE1	1:B:425:ARG:HD2	1.82	0.62
1:B:418:HIS:HE1	1:B:461:GLU:OE1	1.70	0.62
1:D:750:GLU:CG	1:D:755:ARG:HD2	2.29	0.62
1:D:808:GLU:OE1	1:D:808:GLU:HA	1.99	0.62
1:A:541:ALA:HB2	1:A:606:LEU:CD1	2.29	0.62
1:C:50:GLN:HE21	1:C:50:GLN:H	1.45	0.62
1:A:942:ARG:O	1:A:953:GLY:O	2.17	0.62
1:D:63:PHE:CE2	1:D:70:PRO:HD3	2.33	0.62
1:C:134:LEU:N	1:C:134:LEU:HD23	2.15	0.62
1:D:134:LEU:HD23	1:D:134:LEU:N	2.15	0.62
1:A:33:PHE:HB3	1:A:326:GLU:OE2	1.89	0.62
1:D:55:ASN:HD21	1:D:211:ASP:CG	2.02	0.62
1:A:420:MET:HE1	1:A:425:ARG:HD2	1.82	0.62
1:B:196:TYR:HB3	1:B:426:LEU:HD11	1.81	0.62
1:C:808:GLU:OE1	1:C:808:GLU:HA	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:541:ALA:HB2	1:B:606:LEU:CD1	2.29	0.62
1:C:401:LEU:HD23	1:C:404:ARG:NH2	2.15	0.62
1:D:401:LEU:HD23	1:D:404:ARG:NH2	2.15	0.62
1:C:867:THR:HG23	1:C:1017:GLN:NE2	2.14	0.62
1:D:899:GLY:HA3	1:D:941:THR:HG22	1.80	0.62
1:C:786:ARG:HE	1:C:880:ALA:HB1	1.60	0.62
1:A:649:ASN:HD22	1:A:704:ASN:HD21	1.48	0.62
1:B:178:ARG:H	1:B:182:ASN:HD21	1.45	0.62
1:B:693:GLN:HE21	1:B:721:ARG:CB	2.08	0.62
1:C:55:ASN:HD21	1:C:211:ASP:CG	2.02	0.62
1:C:420:MET:HE1	1:C:425:ARG:HD2	1.81	0.62
1:A:196:TYR:HB3	1:A:426:LEU:HD11	1.81	0.62
1:B:7:LEU:HA	1:B:10:VAL:HG12	1.82	0.62
1:D:50:GLN:HE21	1:D:50:GLN:H	1.45	0.62
1:A:211:ASP:OD1	1:A:212:VAL:N	2.33	0.62
1:B:134:LEU:HD23	1:B:134:LEU:N	2.15	0.62
1:A:651:LEU:HG	1:A:703:PRO:CD	2.30	0.62
1:A:418:HIS:HE1	1:A:461:GLU:OE1	1.70	0.62
1:C:768:MET:HE1	1:C:1020:TRP:CZ2	2.34	0.62
1:D:768:MET:HE1	1:D:1020:TRP:CZ2	2.34	0.62
1:B:440:VAL:CG1	1:B:475:ILE:HD11	2.29	0.62
1:B:211:ASP:OD1	1:B:212:VAL:N	2.33	0.62
1:A:474:TRP:CH2	1:A:478:VAL:HG21	2.35	0.62
1:C:668:VAL:HG13	1:C:669:PRO:HD2	1.81	0.62
1:B:649:ASN:HD22	1:B:704:ASN:HD21	1.48	0.62
1:D:251:ARG:HG3	1:D:253:TYR:CE2	2.35	0.61
1:A:256:VAL:HG23	1:A:274:PHE:CE1	2.35	0.61
1:A:7:LEU:HA	1:A:10:VAL:HG12	1.82	0.61
1:A:50:GLN:H	1:A:50:GLN:HE21	1.45	0.61
1:A:440:VAL:CG1	1:A:475:ILE:HD11	2.29	0.61
1:C:737:ILE:HD12	1:C:738:PRO:HD2	1.82	0.61
1:D:737:ILE:HD12	1:D:738:PRO:HD2	1.82	0.61
1:B:706:THR:HG21	1:B:708:TRP:CE2	2.35	0.61
1:B:305:ILE:HG21	1:B:307:ASN:OD1	2.00	0.61
1:D:668:VAL:HG13	1:D:669:PRO:HD2	1.81	0.61
1:A:305:ILE:HG21	1:A:307:ASN:OD1	2.00	0.61
1:A:134:LEU:HD23	1:A:134:LEU:N	2.15	0.61
1:A:760:ARG:O	1:A:822:LEU:HD22	2.00	0.61
1:B:760:ARG:O	1:B:822:LEU:HD22	2.00	0.61
1:C:251:ARG:HG3	1:C:253:TYR:CE2	2.35	0.61
1:C:651:LEU:HG	1:C:703:PRO:CD	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:651:LEU:HG	1:D:703:PRO:CD	2.30	0.61
1:A:693:GLN:HE21	1:A:721:ARG:CB	2.08	0.61
1:B:651:LEU:HG	1:B:703:PRO:CD	2.30	0.61
1:D:601:PHE:HZ	1:D:998:SER:HB3	1.60	0.61
1:B:50:GLN:HE21	1:B:50:GLN:H	1.45	0.61
1:B:961:ARG:HB3	1:B:978:ALA:HB1	1.81	0.61
1:D:518:TRP:CE3	1:D:522:LYS:HE2	2.35	0.61
1:B:474:TRP:CH2	1:B:478:VAL:HG21	2.35	0.61
1:A:706:THR:HG21	1:A:708:TRP:CE2	2.36	0.61
1:C:899:GLY:HA3	1:C:941:THR:HG22	1.80	0.61
1:D:906:TYR:HH	1:D:934:GLU:CD	2.04	0.61
1:A:795:VAL:HG12	1:A:795:VAL:O	1.99	0.61
1:D:629:PHE:CE2	1:D:638:VAL:HG22	2.35	0.61
1:C:1015:HIS:HD2	1:C:1016:TYR:N	1.98	0.61
1:D:1015:HIS:HD2	1:D:1016:TYR:N	1.98	0.61
1:A:1000:SER:HB2	1:A:1001:PRO:HD2	1.82	0.61
1:B:1000:SER:HB2	1:B:1001:PRO:HD2	1.82	0.61
1:B:256:VAL:HG23	1:B:274:PHE:CE1	2.35	0.61
1:C:190:ARG:HA	1:C:206:SER:HB2	1.81	0.61
1:C:788:PRO:HB2	1:C:793:ILE:HD11	1.81	0.61
1:D:783:GLN:NE2	1:D:881:ARG:HD2	2.14	0.61
1:B:656:VAL:HG21	1:B:685:LEU:HD21	1.83	0.61
1:D:352:ARG:NH2	1:D:641:GLU:HG2	2.12	0.61
1:C:518:TRP:CE3	1:C:522:LYS:HE2	2.35	0.61
1:A:834:VAL:HG12	1:A:836:ILE:HD11	1.80	0.61
1:B:834:VAL:HG12	1:B:836:ILE:HD11	1.80	0.61
1:C:629:PHE:CE2	1:C:638:VAL:HG22	2.35	0.61
1:C:490:GLY:O	1:C:491:ALA:HB3	2.01	0.61
1:D:490:GLY:O	1:D:491:ALA:HB3	2.01	0.61
1:B:824:GLN:HE22	1:B:826:THR:HG23	1.61	0.61
1:A:360:HIS:O	1:A:364:GLY:N	2.33	0.61
1:D:190:ARG:HA	1:D:206:SER:HB2	1.81	0.61
1:D:22:THR:C	1:D:163:GLN:CB	2.63	0.61
1:C:601:PHE:HZ	1:C:998:SER:HB3	1.60	0.61
1:A:961:ARG:HB3	1:A:978:ALA:HB1	1.81	0.61
1:A:63:PHE:CE2	1:A:69:VAL:HA	2.35	0.61
1:B:63:PHE:CE2	1:B:69:VAL:HA	2.35	0.61
1:C:906:TYR:HH	1:C:934:GLU:CD	2.04	0.61
1:A:795:VAL:CG1	1:A:800:ARG:NH2	2.64	0.61
1:B:795:VAL:HG12	1:B:795:VAL:O	1.99	0.61
1:D:766:SER:HA	1:D:779:PRO:HB3	1.80	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:824:GLN:HE22	1:A:826:THR:HG23	1.61	0.61
1:B:360:HIS:O	1:B:364:GLY:N	2.33	0.61
1:D:254:LEU:O	1:D:254:LEU:HD12	2.01	0.61
1:D:788:PRO:HB2	1:D:793:ILE:HD11	1.81	0.61
1:D:544:ASN:HB2	1:D:789:LEU:HD22	1.83	0.61
1:C:544:ASN:HB2	1:C:789:LEU:HD22	1.83	0.61
1:C:783:GLN:NE2	1:C:881:ARG:HD2	2.14	0.61
1:A:656:VAL:HG21	1:A:685:LEU:HD21	1.83	0.61
1:B:578:TYR:HD2	1:B:582:GLY:O	1.83	0.61
1:C:303:ALA:HA	1:C:406:GLY:O	2.01	0.61
1:B:622:HIS:HB2	1:B:717:TRP:CZ2	2.35	0.61
1:B:795:VAL:CG1	1:B:800:ARG:NH2	2.64	0.61
1:C:759:ASN:HD22	1:C:762:SER:HB3	1.66	0.61
1:D:760:ARG:O	1:D:822:LEU:HD22	2.00	0.61
1:D:759:ASN:HD22	1:D:762:SER:HB3	1.66	0.61
1:A:815:HIS:ND1	1:A:850:PHE:HZ	1.86	0.61
1:A:750:GLU:HG3	1:A:755:ARG:CD	2.30	0.61
1:D:303:ALA:HA	1:D:406:GLY:O	2.01	0.61
1:B:737:ILE:HD12	1:B:738:PRO:HD2	1.82	0.61
1:D:63:PHE:CE2	1:D:69:VAL:HA	2.35	0.61
1:A:622:HIS:HB2	1:A:717:TRP:CZ2	2.35	0.61
1:A:944:LEU:HD22	1:A:957:PHE:CD1	2.35	0.61
1:B:944:LEU:HD22	1:B:957:PHE:CD1	2.35	0.61
1:B:795:VAL:HG12	1:B:800:ARG:HH22	1.63	0.61
1:C:760:ARG:O	1:C:822:LEU:HD22	2.00	0.61
1:C:766:SER:HA	1:C:779:PRO:HB3	1.80	0.61
1:C:254:LEU:HD12	1:C:254:LEU:O	2.01	0.61
1:C:255:ARG:CG	1:C:255:ARG:HH11	2.14	0.61
1:D:255:ARG:HH11	1:D:255:ARG:CG	2.14	0.61
1:D:253:TYR:C	1:D:255:ARG:HD3	2.17	0.61
1:D:256:VAL:HG23	1:D:274:PHE:CE1	2.34	0.61
1:C:874:SER:CB	1:D:721:ARG:HH21	2.13	0.61
1:C:721:ARG:HH21	1:D:874:SER:CB	2.13	0.61
1:A:721:ARG:HH21	1:B:874:SER:CB	2.12	0.61
1:D:59:ARG:HH11	1:D:59:ARG:HG3	1.65	0.61
1:D:88:SER:OG	1:D:93:HIS:CE1	2.52	0.61
1:B:750:GLU:HG3	1:B:755:ARG:CD	2.30	0.61
1:D:801:ILE:CG2	1:D:808:GLU:CD	2.64	0.61
1:C:22:THR:C	1:C:163:GLN:CB	2.63	0.61
1:D:22:THR:HA	1:D:163:GLN:HG2	1.83	0.61
1:A:578:TYR:HD2	1:A:582:GLY:O	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:626:PHE:CB	1:C:641:GLU:CB	2.62	0.61
1:C:352:ARG:NH2	1:C:641:GLU:HG2	2.12	0.61
1:A:737:ILE:HD12	1:A:738:PRO:HD2	1.82	0.61
1:C:63:PHE:CE2	1:C:69:VAL:HA	2.35	0.61
1:B:629:PHE:CE2	1:B:638:VAL:HG22	2.35	0.61
1:D:427:THR:HB	1:D:436:MET:HE1	1.72	0.61
1:B:849:LEU:HB3	1:B:850:PHE:CE1	2.35	0.61
1:C:253:TYR:C	1:C:255:ARG:HD3	2.17	0.61
1:B:246:MET:HG3	1:B:246:MET:O	2.01	0.61
1:A:222:ILE:O	1:A:222:ILE:HG13	2.00	0.61
1:A:246:MET:HG3	1:A:246:MET:O	2.01	0.61
1:A:874:SER:CB	1:B:721:ARG:HH21	2.13	0.61
1:C:111:PRO:HD3	1:C:196:TYR:HE2	1.65	0.61
1:B:91:GLN:HG3	1:B:190:ARG:HH21	1.51	0.61
1:C:801:ILE:CG2	1:C:808:GLU:CD	2.64	0.61
1:C:22:THR:HA	1:C:163:GLN:HG2	1.83	0.61
1:A:808:GLU:HA	1:A:808:GLU:OE1	1.99	0.61
1:A:474:TRP:CE2	1:A:478:VAL:CG1	2.82	0.61
1:A:63:PHE:CB	1:A:69:VAL:HG12	2.30	0.61
1:B:63:PHE:CB	1:B:69:VAL:HG12	2.30	0.61
1:A:629:PHE:CE2	1:A:638:VAL:HG22	2.35	0.61
1:C:305:ILE:HG21	1:C:307:ASN:OD1	2.00	0.61
1:D:760:ARG:O	1:D:822:LEU:CD2	2.49	0.61
1:A:760:ARG:O	1:A:822:LEU:CD2	2.49	0.61
1:B:760:ARG:O	1:B:822:LEU:CD2	2.49	0.61
1:A:849:LEU:HB3	1:A:850:PHE:CE1	2.35	0.61
1:C:253:TYR:O	1:C:255:ARG:NE	2.32	0.61
1:C:256:VAL:HG23	1:C:274:PHE:CE1	2.35	0.61
1:D:823:LEU:HD12	1:D:824:GLN:HB3	1.82	0.61
1:A:4:THR:HG23	1:D:12:GLN:NE2	2.15	0.61
1:C:59:ARG:HH11	1:C:59:ARG:HG3	1.65	0.61
1:C:88:SER:OG	1:C:93:HIS:CE1	2.52	0.61
1:A:59:ARG:HH11	1:A:59:ARG:HG3	1.65	0.61
1:B:808:GLU:OE1	1:B:808:GLU:HA	1.99	0.61
1:B:616:ALA:HA	1:B:909:ARG:NH1	2.16	0.61
1:A:616:ALA:HA	1:A:909:ARG:NH1	2.16	0.61
1:B:634:GLN:OE1	1:B:684:GLU:CD	2.39	0.61
1:C:634:GLN:OE1	1:C:684:GLU:CD	2.39	0.61
1:D:474:TRP:CH2	1:D:478:VAL:HG21	2.35	0.61
1:B:474:TRP:CE2	1:B:478:VAL:CG1	2.82	0.61
1:C:474:TRP:CH2	1:C:478:VAL:HG21	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:63:PHE:CB	1:C:69:VAL:HG12	2.30	0.61
1:A:795:VAL:HG12	1:A:800:ARG:HH22	1.63	0.61
1:D:305:ILE:HG21	1:D:307:ASN:OD1	2.00	0.61
1:C:760:ARG:O	1:C:822:LEU:CD2	2.49	0.61
1:C:849:LEU:HB3	1:C:850:PHE:CE1	2.35	0.61
1:A:823:LEU:HD12	1:A:824:GLN:HB3	1.82	0.61
1:C:251:ARG:HH11	1:C:251:ARG:CG	2.14	0.61
1:D:652:LEU:HD11	1:D:698:VAL:HG12	1.74	0.61
1:D:251:ARG:HH11	1:D:251:ARG:CG	2.14	0.61
1:D:253:TYR:O	1:D:255:ARG:NE	2.32	0.61
1:B:222:ILE:HG13	1:B:222:ILE:O	2.00	0.61
1:D:111:PRO:HD3	1:D:196:TYR:HE2	1.65	0.61
1:D:420:MET:HE1	1:D:425:ARG:HD2	1.82	0.61
1:B:59:ARG:HH11	1:B:59:ARG:HG3	1.65	0.61
1:B:395:HIS:CE1	1:B:396:PRO:CG	2.83	0.61
1:A:769:TRP:CZ3	1:A:774:LYS:HA	2.36	0.61
1:C:769:TRP:CZ3	1:C:774:LYS:HA	2.36	0.61
1:D:769:TRP:CZ3	1:D:774:LYS:HA	2.36	0.61
1:B:22:THR:HA	1:B:163:GLN:HG2	1.83	0.61
1:A:22:THR:HA	1:A:163:GLN:HG2	1.83	0.61
1:A:544:ASN:HB2	1:A:789:LEU:HD22	1.83	0.61
1:C:578:TYR:HD2	1:C:582:GLY:O	1.83	0.61
1:A:634:GLN:OE1	1:A:684:GLU:CD	2.39	0.61
1:D:626:PHE:CB	1:D:641:GLU:CB	2.62	0.61
1:D:1000:SER:HB2	1:D:1001:PRO:HD2	1.82	0.61
1:C:1000:SER:HB2	1:C:1001:PRO:HD2	1.82	0.61
1:B:815:HIS:ND1	1:B:850:PHE:HZ	1.86	0.60
1:C:823:LEU:HD12	1:C:824:GLN:HB3	1.82	0.60
1:A:246:MET:SD	1:A:274:PHE:CE2	2.83	0.60
1:D:390:SER:C	1:D:391:HIS:ND1	2.50	0.60
1:C:103:VAL:O	1:C:199:ASP:OD2	2.19	0.60
1:C:390:SER:C	1:C:391:HIS:ND1	2.50	0.60
1:A:395:HIS:CE1	1:A:396:PRO:CG	2.83	0.60
1:D:395:HIS:CE1	1:D:396:PRO:CG	2.83	0.60
1:D:578:TYR:HD2	1:D:582:GLY:O	1.83	0.60
1:D:634:GLN:OE1	1:D:684:GLU:CD	2.39	0.60
1:D:63:PHE:CB	1:D:69:VAL:HG12	2.30	0.60
1:D:944:LEU:HD22	1:D:957:PHE:CD1	2.35	0.60
1:A:718:GLN:OE1	1:A:718:GLN:HA	2.01	0.60
1:D:849:LEU:HB3	1:D:850:PHE:CE1	2.35	0.60
1:B:823:LEU:HD12	1:B:824:GLN:HB3	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:254:LEU:O	1:B:254:LEU:HD12	2.01	0.60
1:D:103:VAL:O	1:D:199:ASP:OD2	2.19	0.60
1:B:4:THR:HG23	1:C:12:GLN:NE2	2.15	0.60
1:A:103:VAL:O	1:A:199:ASP:OD2	2.19	0.60
1:B:103:VAL:O	1:B:199:ASP:OD2	2.19	0.60
1:C:395:HIS:CE1	1:C:396:PRO:CG	2.83	0.60
1:B:769:TRP:CZ3	1:B:774:LYS:HA	2.36	0.60
1:C:336:ARG:HH11	1:C:338:GLU:CG	2.15	0.60
1:B:544:ASN:HB2	1:B:789:LEU:HD22	1.83	0.60
1:A:617:LEU:C	1:A:617:LEU:HD23	2.22	0.60
1:B:617:LEU:HD23	1:B:617:LEU:C	2.22	0.60
1:B:649:ASN:O	1:B:649:ASN:OD1	2.18	0.60
1:A:433:LEU:HB3	1:A:434:PRO:HD3	1.82	0.60
1:B:970:THR:CG2	1:B:976:LEU:HD23	2.29	0.60
1:A:254:LEU:HD12	1:A:254:LEU:O	2.01	0.60
1:A:91:GLN:HG3	1:A:190:ARG:HH21	1.51	0.60
1:C:18:ASN:ND2	1:C:21:VAL:H	1.99	0.60
1:D:336:ARG:HH11	1:D:338:GLU:CG	2.15	0.60
1:A:18:ASN:ND2	1:A:21:VAL:H	1.99	0.60
1:D:694:LEU:HD22	1:D:722:LEU:HD12	1.84	0.60
1:C:694:LEU:HD22	1:C:722:LEU:HD12	1.83	0.60
1:C:944:LEU:HD22	1:C:957:PHE:CD1	2.35	0.60
1:D:41:GLU:CA	1:D:44:THR:OG1	2.44	0.60
1:B:446:ARG:NE	1:B:447:ASP:OD1	2.27	0.60
1:B:718:GLN:HA	1:B:718:GLN:OE1	2.00	0.60
1:C:439:ARG:CG	1:C:439:ARG:HH11	2.14	0.60
1:D:439:ARG:CG	1:D:439:ARG:HH11	2.14	0.60
1:A:649:ASN:OD1	1:A:649:ASN:O	2.18	0.60
1:B:433:LEU:HB3	1:B:434:PRO:HD3	1.82	0.60
1:B:540:HIS:O	1:B:545:SER:CB	2.40	0.60
1:D:622:HIS:HB2	1:D:717:TRP:CZ2	2.35	0.60
1:C:433:LEU:HB3	1:C:434:PRO:HD3	1.82	0.60
1:C:222:ILE:HG13	1:C:222:ILE:O	2.00	0.60
1:D:222:ILE:O	1:D:222:ILE:HG13	2.00	0.60
1:C:652:LEU:HD11	1:C:698:VAL:HG12	1.74	0.60
1:A:970:THR:CG2	1:A:976:LEU:HD23	2.29	0.60
1:C:7:LEU:HA	1:C:10:VAL:HG12	1.82	0.60
1:A:768:MET:HE3	1:A:1020:TRP:CZ2	2.36	0.60
1:D:18:ASN:ND2	1:D:21:VAL:H	1.99	0.60
1:B:18:ASN:ND2	1:B:21:VAL:H	1.99	0.60
1:A:336:ARG:HH11	1:A:338:GLU:CG	2.15	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:622:HIS:HB2	1:C:717:TRP:CZ2	2.35	0.60
1:C:795:VAL:CG1	1:C:800:ARG:NH2	2.63	0.60
1:B:439:ARG:CG	1:B:439:ARG:HH11	2.14	0.60
1:D:178:ARG:CG	1:D:178:ARG:HH11	2.14	0.60
1:C:358:GLU:CB	1:C:367:MET:HE3	2.18	0.60
1:D:420:MET:HE2	1:D:425:ARG:HD2	1.84	0.60
1:D:7:LEU:HA	1:D:10:VAL:HG12	1.82	0.60
1:B:768:MET:HE1	1:B:1020:TRP:CZ2	2.36	0.60
1:C:750:GLU:HG2	1:C:755:ARG:HD3	1.83	0.60
1:D:750:GLU:HG2	1:D:755:ARG:HD3	1.83	0.60
1:D:550:ALA:CB	1:D:623:GLN:HE21	2.09	0.60
1:D:538:TYR:CE2	1:D:565:GLY:C	2.72	0.60
1:B:336:ARG:HH11	1:B:338:GLU:CG	2.15	0.60
1:D:616:ALA:HA	1:D:909:ARG:NH1	2.16	0.60
1:C:616:ALA:HA	1:C:909:ARG:NH1	2.16	0.60
1:D:656:VAL:HG21	1:D:685:LEU:HD21	1.83	0.60
1:C:656:VAL:HG21	1:C:685:LEU:HD21	1.83	0.60
1:A:446:ARG:NE	1:A:447:ASP:OD1	2.27	0.60
1:A:901:GLY:CA	1:A:918:TRP:NE1	2.65	0.60
1:D:433:LEU:HB3	1:D:434:PRO:HD3	1.82	0.60
1:B:246:MET:SD	1:B:274:PHE:CE2	2.83	0.60
1:D:691:ALA:HB1	1:D:727:SER:CB	2.29	0.60
1:B:657:ALA:HB1	1:B:661:LYS:O	2.01	0.60
1:A:111:PRO:HD3	1:A:196:TYR:HE2	1.65	0.60
1:B:111:PRO:HD3	1:B:196:TYR:HE2	1.65	0.60
1:C:538:TYR:CE2	1:C:565:GLY:C	2.72	0.60
1:A:540:HIS:O	1:A:545:SER:CB	2.40	0.60
1:B:694:LEU:HD22	1:B:722:LEU:HD12	1.83	0.60
1:A:737:ILE:HD13	1:A:831:ALA:O	2.01	0.60
1:B:737:ILE:HD13	1:B:831:ALA:O	2.01	0.60
1:C:795:VAL:HG12	1:C:800:ARG:NH2	2.17	0.60
1:D:795:VAL:HG12	1:D:800:ARG:NH2	2.17	0.60
1:D:795:VAL:CG1	1:D:800:ARG:NH2	2.64	0.60
1:D:718:GLN:OE1	1:D:718:GLN:HA	2.01	0.60
1:B:901:GLY:CA	1:B:918:TRP:NE1	2.65	0.60
1:A:439:ARG:CG	1:A:439:ARG:HH11	2.14	0.60
1:A:490:GLY:O	1:A:491:ALA:HB3	2.01	0.60
1:B:490:GLY:O	1:B:491:ALA:HB3	2.01	0.60
1:C:178:ARG:CG	1:C:178:ARG:HH11	2.14	0.60
1:B:178:ARG:HH11	1:B:178:ARG:CG	2.14	0.60
1:D:14:ARG:HD2	1:D:17:GLU:HG3	1.78	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:515:VAL:O	1:A:515:VAL:HG12	2.02	0.60
1:B:750:GLU:HG2	1:B:755:ARG:HD3	1.83	0.60
1:C:550:ALA:CB	1:C:623:GLN:HE21	2.09	0.60
1:C:705:ALA:CB	1:C:709:SER:O	2.45	0.60
1:B:352:ARG:HB3	1:B:553:TRP:CZ2	2.37	0.60
1:A:352:ARG:HB3	1:A:553:TRP:CZ2	2.37	0.60
1:B:867:THR:CG2	1:B:1017:GLN:NE2	2.64	0.60
1:A:867:THR:CG2	1:A:1017:GLN:NE2	2.64	0.60
1:B:55:ASN:HD21	1:B:211:ASP:CG	2.02	0.60
1:C:737:ILE:HD13	1:C:831:ALA:O	2.01	0.60
1:D:737:ILE:HD13	1:D:831:ALA:O	2.01	0.60
1:C:718:GLN:HA	1:C:718:GLN:OE1	2.01	0.60
1:A:657:ALA:HB1	1:A:661:LYS:O	2.01	0.60
1:A:750:GLU:HG2	1:A:755:ARG:HD3	1.83	0.60
1:A:802:ASP:OD1	1:A:803:PRO:CD	2.50	0.60
1:B:961:ARG:CD	1:B:981:GLY:O	2.50	0.60
1:D:617:LEU:HD23	1:D:617:LEU:C	2.22	0.60
1:A:55:ASN:HD21	1:A:211:ASP:CG	2.02	0.60
1:A:178:ARG:HH11	1:A:178:ARG:CG	2.14	0.60
1:C:691:ALA:HB1	1:C:727:SER:CB	2.29	0.60
1:D:873:ALA:O	1:D:876:THR:HG22	2.02	0.60
1:D:515:VAL:O	1:D:515:VAL:HG12	2.02	0.60
1:C:14:ARG:HD2	1:C:17:GLU:HG3	1.79	0.60
1:C:515:VAL:HG12	1:C:515:VAL:O	2.02	0.60
1:B:515:VAL:O	1:B:515:VAL:HG12	2.02	0.60
1:B:802:ASP:OD1	1:B:803:PRO:CD	2.50	0.60
1:A:961:ARG:CD	1:A:981:GLY:O	2.50	0.60
1:D:705:ALA:CB	1:D:709:SER:O	2.45	0.60
1:A:694:LEU:HD22	1:A:722:LEU:HD12	1.84	0.60
1:C:617:LEU:C	1:C:617:LEU:HD23	2.22	0.60
1:A:303:ALA:HA	1:A:406:GLY:O	2.01	0.60
1:C:655:MET:HE1	1:C:699:ARG:NH1	2.14	0.60
1:C:873:ALA:O	1:C:876:THR:HG22	2.03	0.59
1:D:657:ALA:HB1	1:D:661:LYS:O	2.01	0.59
1:C:420:MET:HE2	1:C:425:ARG:HD2	1.84	0.59
1:C:102:ASN:HA	1:C:201:ASP:CB	2.32	0.59
1:B:102:ASN:HA	1:B:201:ASP:CB	2.32	0.59
1:B:503:TYR:CE2	1:B:537:GLU:HB2	2.37	0.59
1:B:303:ALA:HA	1:B:406:GLY:O	2.01	0.59
1:C:706:THR:HG21	1:C:708:TRP:CE2	2.35	0.59
1:B:173:LEU:HB3	1:B:177:LEU:CD2	2.29	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:974:HIS:NE2	1:B:975:LEU:HD21	1.92	0.59
1:B:221:GLN:HE21	1:B:221:GLN:H	1.50	0.59
1:C:657:ALA:HB1	1:C:661:LYS:O	2.01	0.59
1:A:205:MET:HE2	1:A:365:GLN:CG	2.25	0.59
1:B:88:SER:OG	1:B:93:HIS:CE1	2.52	0.59
1:A:359:HIS:H	1:A:367:MET:HE1	1.63	0.59
1:D:102:ASN:HA	1:D:201:ASP:CB	2.32	0.59
1:A:503:TYR:CE2	1:A:537:GLU:HB2	2.37	0.59
1:D:232:ASN:OD1	1:D:237:ARG:C	2.40	0.59
1:D:472:TYR:CZ	1:D:497:ASP:OD1	2.55	0.59
1:C:472:TYR:CZ	1:C:497:ASP:OD1	2.55	0.59
1:D:473:ARG:HE	1:D:473:ARG:HA	1.67	0.59
1:C:758:PHE:CE1	1:C:765:LEU:CB	2.82	0.59
1:D:758:PHE:CE1	1:D:765:LEU:CB	2.82	0.59
1:D:747:PHE:CD2	1:D:827:ALA:HB2	2.31	0.59
1:B:747:PHE:CD2	1:B:827:ALA:HB2	2.31	0.59
1:A:221:GLN:HE21	1:A:221:GLN:H	1.50	0.59
1:A:255:ARG:HH11	1:A:255:ARG:CG	2.14	0.59
1:B:100:TYR:OH	1:B:602:CYS:HB3	1.99	0.59
1:A:723:ALA:CB	1:B:875:ASP:CB	2.80	0.59
1:A:420:MET:HE2	1:A:425:ARG:HD2	1.84	0.59
1:B:420:MET:HE2	1:B:425:ARG:HD2	1.84	0.59
1:D:534:ILE:HG23	1:D:564:GLY:O	2.02	0.59
1:C:503:TYR:CE2	1:C:537:GLU:HB2	2.37	0.59
1:A:102:ASN:HA	1:A:201:ASP:CB	2.32	0.59
1:D:626:PHE:C	1:D:641:GLU:CB	2.70	0.59
1:C:626:PHE:C	1:C:641:GLU:CB	2.70	0.59
1:C:232:ASN:OD1	1:C:237:ARG:C	2.40	0.59
1:D:867:THR:CG2	1:D:1017:GLN:NE2	2.64	0.59
1:D:706:THR:HG21	1:D:708:TRP:CE2	2.35	0.59
1:A:173:LEU:HB3	1:A:177:LEU:CD2	2.29	0.59
1:A:906:TYR:HH	1:A:934:GLU:CD	2.05	0.59
1:C:473:ARG:HE	1:C:473:ARG:HA	1.67	0.59
1:C:139:THR:OG1	1:C:216:HIS:HD2	1.85	0.59
1:D:139:THR:OG1	1:D:216:HIS:HD2	1.85	0.59
1:D:649:ASN:O	1:D:649:ASN:OD1	2.18	0.59
1:A:974:HIS:NE2	1:A:975:LEU:HD21	1.92	0.59
1:D:99:ILE:CD1	1:D:106:PRO:CB	2.80	0.59
1:A:88:SER:OG	1:A:93:HIS:CE1	2.52	0.59
1:B:939:CYS:HA	1:B:956:GLN:HG3	1.83	0.59
1:A:472:TYR:CZ	1:A:497:ASP:OD1	2.55	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:867:THR:CG2	1:C:1017:GLN:NE2	2.64	0.59
1:B:906:TYR:HH	1:B:934:GLU:CD	2.05	0.59
1:C:649:ASN:HD22	1:C:704:ASN:HD21	1.48	0.59
1:D:645:ARG:HG2	1:D:646:HIS:O	2.02	0.59
1:C:747:PHE:CD2	1:C:827:ALA:HB2	2.31	0.59
1:B:255:ARG:HH11	1:B:255:ARG:CG	2.14	0.59
1:C:99:ILE:CD1	1:C:106:PRO:CB	2.80	0.59
1:A:538:TYR:CE2	1:A:565:GLY:C	2.72	0.59
1:C:534:ILE:HG23	1:C:564:GLY:O	2.02	0.59
1:A:939:CYS:HA	1:A:956:GLN:HG3	1.83	0.59
1:D:503:TYR:CE2	1:D:537:GLU:HB2	2.37	0.59
1:C:939:CYS:HA	1:C:956:GLN:HG3	1.83	0.59
1:C:961:ARG:CD	1:C:981:GLY:O	2.50	0.59
1:D:369:GLU:HG2	1:D:397:LEU:CD2	2.32	0.59
1:B:472:TYR:CZ	1:B:497:ASP:OD1	2.55	0.59
1:A:875:ASP:CB	1:B:723:ALA:CB	2.80	0.59
1:C:399:TYR:HE1	1:C:446:ARG:NH1	1.98	0.59
1:C:649:ASN:OD1	1:C:649:ASN:O	2.18	0.59
1:B:220:THR:O	1:B:323:ILE:HG21	2.03	0.59
1:B:645:ARG:HG2	1:B:646:HIS:O	2.02	0.59
1:A:220:THR:O	1:A:323:ILE:HG21	2.03	0.59
1:D:654:TRP:CD2	1:D:666:GLY:CA	2.83	0.59
1:A:100:TYR:OH	1:A:602:CYS:HB3	1.99	0.59
1:D:358:GLU:OE2	1:D:367:MET:HB2	2.02	0.59
1:B:538:TYR:CE2	1:B:565:GLY:C	2.72	0.59
1:D:939:CYS:HA	1:D:956:GLN:HG3	1.83	0.59
1:D:961:ARG:CD	1:D:981:GLY:O	2.50	0.59
1:C:369:GLU:HG2	1:C:397:LEU:CD2	2.32	0.59
1:C:509:ASP:HB3	1:C:519:SER:N	2.17	0.59
1:D:901:GLY:CA	1:D:918:TRP:NE1	2.65	0.59
1:C:901:GLY:CA	1:C:918:TRP:NE1	2.65	0.59
1:D:649:ASN:HD22	1:D:704:ASN:HD21	1.48	0.59
1:C:645:ARG:HG2	1:C:646:HIS:O	2.02	0.59
1:A:645:ARG:HG2	1:A:646:HIS:O	2.02	0.59
1:A:747:PHE:CD2	1:A:827:ALA:HB2	2.31	0.59
1:C:358:GLU:OE2	1:C:367:MET:HB2	2.02	0.59
1:C:246:MET:O	1:C:246:MET:HG3	2.01	0.59
1:A:873:ALA:O	1:A:876:THR:HG22	2.02	0.59
1:B:873:ALA:O	1:B:876:THR:HG22	2.02	0.59
1:A:572:ASP:OD2	1:A:603:MET:HE1	2.01	0.59
1:B:572:ASP:OD2	1:B:603:MET:HE1	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:783:GLN:NE2	1:B:881:ARG:NE	2.51	0.59
1:D:509:ASP:HB3	1:D:519:SER:N	2.17	0.59
1:D:399:TYR:HE1	1:D:446:ARG:NH1	1.98	0.59
1:B:473:ARG:HE	1:B:473:ARG:HA	1.67	0.59
1:A:473:ARG:HE	1:A:473:ARG:HA	1.67	0.59
1:D:592:PHE:H	1:D:592:PHE:HD1	1.47	0.59
1:D:246:MET:HB3	1:D:274:PHE:HZ	1.64	0.59
1:D:246:MET:HG3	1:D:246:MET:O	2.01	0.59
1:C:654:TRP:CD2	1:C:666:GLY:CA	2.83	0.59
1:D:770:ILE:CG2	1:D:773:LYS:HB2	2.27	0.59
1:C:770:ILE:CG2	1:C:773:LYS:HB2	2.27	0.59
1:A:251:ARG:CG	1:A:251:ARG:HH11	2.14	0.59
1:B:691:ALA:HB1	1:B:727:SER:CB	2.29	0.59
1:D:111:PRO:HD3	1:D:196:TYR:CE2	2.37	0.59
1:B:105:TYR:CD1	1:B:109:VAL:HG22	2.37	0.59
1:A:783:GLN:NE2	1:A:881:ARG:NE	2.51	0.59
1:B:487:GLU:HG3	1:B:502:MET:CE	2.32	0.59
1:A:148:SER:OG	1:A:192:SER:CB	2.42	0.59
1:D:303:ALA:HB2	1:D:408:TYR:CZ	2.37	0.59
1:B:630:ARG:NH2	1:B:637:GLU:OE1	2.35	0.59
1:B:139:THR:OG1	1:B:216:HIS:HD2	1.85	0.59
1:D:221:GLN:HE21	1:D:221:GLN:H	1.50	0.59
1:A:691:ALA:HB1	1:A:727:SER:CB	2.29	0.59
1:C:111:PRO:HD3	1:C:196:TYR:CE2	2.37	0.59
1:D:169:SER:CA	1:D:170:GLU:OE1	2.50	0.59
1:A:169:SER:CA	1:A:170:GLU:OE1	2.50	0.59
1:C:201:ASP:O	1:C:201:ASP:OD1	2.21	0.59
1:A:487:GLU:HG3	1:A:502:MET:CE	2.32	0.59
1:C:352:ARG:HB3	1:C:553:TRP:CZ2	2.37	0.59
1:A:630:ARG:NH2	1:A:637:GLU:OE1	2.36	0.59
1:B:473:ARG:CG	1:C:469:ASP:O	2.51	0.59
1:C:221:GLN:HE21	1:C:221:GLN:H	1.50	0.59
1:B:251:ARG:HH11	1:B:251:ARG:CG	2.14	0.59
1:A:105:TYR:CD1	1:A:109:VAL:HG22	2.37	0.59
1:B:358:GLU:OE2	1:B:367:MET:HB2	2.02	0.59
1:B:534:ILE:HG23	1:B:564:GLY:O	2.02	0.59
1:A:534:ILE:HG23	1:A:564:GLY:O	2.02	0.59
1:C:169:SER:CA	1:C:170:GLU:OE1	2.50	0.59
1:B:169:SER:CA	1:B:170:GLU:OE1	2.50	0.59
1:D:201:ASP:O	1:D:201:ASP:OD1	2.21	0.59
1:B:598:ASP:O	1:B:599:ARG:HG2	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:598:ASP:O	1:A:599:ARG:HG2	2.02	0.59
1:D:352:ARG:HB3	1:D:553:TRP:CZ2	2.37	0.59
1:A:626:PHE:C	1:A:641:GLU:CB	2.70	0.59
1:C:303:ALA:HB2	1:C:408:TYR:CZ	2.38	0.59
1:A:400:THR:HG22	1:A:404:ARG:NH1	2.18	0.59
1:A:473:ARG:CG	1:D:469:ASP:O	2.51	0.59
1:A:139:THR:OG1	1:A:216:HIS:HD2	1.85	0.59
1:C:850:PHE:HE2	1:C:879:PRO:HB3	1.68	0.58
1:A:99:ILE:CD1	1:A:106:PRO:HB3	2.32	0.58
1:A:358:GLU:OE2	1:A:367:MET:HB2	2.02	0.58
1:B:626:PHE:C	1:B:641:GLU:CB	2.70	0.58
1:B:147:ASN:OD1	1:B:148:SER:N	2.36	0.58
1:A:63:PHE:HE2	1:A:70:PRO:HD3	1.67	0.58
1:B:400:THR:HG22	1:B:404:ARG:NH1	2.18	0.58
1:A:655:MET:HE1	1:A:699:ARG:NH1	2.17	0.58
1:A:795:VAL:HG12	1:A:800:ARG:NH2	2.17	0.58
1:B:795:VAL:HG12	1:B:800:ARG:NH2	2.17	0.58
1:B:592:PHE:H	1:B:592:PHE:HD1	1.47	0.58
1:D:850:PHE:HE2	1:D:879:PRO:HB3	1.68	0.58
1:B:850:PHE:HE2	1:B:879:PRO:HB3	1.68	0.58
1:C:246:MET:HB3	1:C:274:PHE:HZ	1.64	0.58
1:B:99:ILE:CD1	1:B:106:PRO:HB3	2.32	0.58
1:B:358:GLU:CB	1:B:367:MET:HE3	2.24	0.58
1:A:540:HIS:HD2	1:A:568:TRP:HD1	1.51	0.58
1:A:147:ASN:OD1	1:A:148:SER:N	2.36	0.58
1:C:630:ARG:NH2	1:C:637:GLU:OE1	2.35	0.58
1:A:816:TYR:HE2	1:A:968:MET:HE3	1.68	0.58
1:D:1009:LEU:HA	1:D:1014:TYR:OH	2.03	0.58
1:C:592:PHE:HD1	1:C:592:PHE:H	1.47	0.58
1:A:850:PHE:HE2	1:A:879:PRO:HB3	1.68	0.58
1:A:652:LEU:HD11	1:A:698:VAL:HG11	1.81	0.58
1:C:105:TYR:CD1	1:C:109:VAL:HG22	2.37	0.58
1:A:7:LEU:N	1:A:7:LEU:HD12	2.18	0.58
1:D:768:MET:HE1	1:D:1020:TRP:CD2	2.38	0.58
1:D:598:ASP:O	1:D:599:ARG:HG2	2.02	0.58
1:C:599:ARG:CG	1:C:600:GLN:N	2.66	0.58
1:D:656:VAL:HG22	1:D:696:LEU:HD13	1.85	0.58
1:B:509:ASP:HB3	1:B:519:SER:N	2.17	0.58
1:C:838:THR:OG1	1:C:854:LYS:CG	2.52	0.58
1:D:838:THR:OG1	1:D:854:LYS:CG	2.51	0.58
1:A:369:GLU:HG2	1:A:397:LEU:CD2	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:337:ILE:CD1	1:C:483:PRO:CG	2.80	0.58
1:D:337:ILE:CD1	1:D:483:PRO:CG	2.80	0.58
1:B:816:TYR:HE2	1:B:968:MET:HE3	1.68	0.58
1:C:1009:LEU:HA	1:C:1014:TYR:OH	2.04	0.58
1:C:226:HIS:O	1:C:242:ALA:HA	2.04	0.58
1:D:105:TYR:CD1	1:D:109:VAL:HG22	2.37	0.58
1:D:7:LEU:HD12	1:D:7:LEU:N	2.18	0.58
1:A:7:LEU:O	1:A:10:VAL:HG12	2.03	0.58
1:A:509:ASP:HB3	1:A:519:SER:N	2.17	0.58
1:C:768:MET:HE1	1:C:1020:TRP:CD2	2.39	0.58
1:D:21:VAL:HG11	1:D:24:LEU:CD2	2.24	0.58
1:D:599:ARG:CG	1:D:600:GLN:N	2.66	0.58
1:B:63:PHE:HE2	1:B:70:PRO:HD3	1.67	0.58
1:D:220:THR:O	1:D:323:ILE:HG21	2.03	0.58
1:A:592:PHE:H	1:A:592:PHE:HD1	1.47	0.58
1:D:226:HIS:O	1:D:242:ALA:HA	2.04	0.58
1:B:226:HIS:O	1:B:242:ALA:HA	2.04	0.58
1:A:724:GLU:CB	1:B:874:SER:N	2.66	0.58
1:C:7:LEU:N	1:C:7:LEU:HD12	2.18	0.58
1:C:7:LEU:O	1:C:10:VAL:HG12	2.03	0.58
1:C:99:ILE:CD1	1:C:106:PRO:HB3	2.32	0.58
1:B:7:LEU:N	1:B:7:LEU:HD12	2.18	0.58
1:B:7:LEU:O	1:B:10:VAL:HG12	2.03	0.58
1:A:556:PHE:HE1	1:A:565:GLY:H	1.51	0.58
1:C:598:ASP:O	1:C:599:ARG:HG2	2.02	0.58
1:A:905:ASN:HD22	1:A:913:ALA:HB2	1.68	0.58
1:D:615:PRO:HB3	1:D:904:GLU:CG	2.34	0.58
1:C:615:PRO:HB3	1:C:904:GLU:CG	2.34	0.58
1:A:303:ALA:HB2	1:A:408:TYR:CZ	2.38	0.58
1:C:656:VAL:HG22	1:C:696:LEU:HD13	1.85	0.58
1:A:445:GLN:HE21	1:D:430:PRO:HG3	1.65	0.58
1:D:148:SER:OG	1:D:192:SER:CB	2.42	0.58
1:C:737:ILE:CD1	1:C:832:ASP:C	2.72	0.58
1:D:630:ARG:NH2	1:D:637:GLU:OE1	2.36	0.58
1:A:737:ILE:CD1	1:A:832:ASP:C	2.72	0.58
1:B:737:ILE:CD1	1:B:832:ASP:C	2.72	0.58
1:B:369:GLU:HG2	1:B:397:LEU:CD2	2.32	0.58
1:C:491:ALA:O	1:C:499:ILE:HG23	2.03	0.58
1:D:491:ALA:O	1:D:499:ILE:HG23	2.03	0.58
1:C:220:THR:O	1:C:323:ILE:HG21	2.03	0.58
1:C:221:GLN:CA	1:C:221:GLN:HE21	2.16	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:226:HIS:O	1:A:242:ALA:HA	2.04	0.58
1:B:652:LEU:HD11	1:B:698:VAL:HG11	1.81	0.58
1:A:874:SER:N	1:B:724:GLU:CB	2.66	0.58
1:A:395:HIS:CG	1:A:396:PRO:CD	2.73	0.58
1:B:395:HIS:CG	1:B:396:PRO:CD	2.73	0.58
1:B:550:ALA:CB	1:B:623:GLN:HE21	2.09	0.58
1:C:401:LEU:HD23	1:C:404:ARG:HH21	1.69	0.58
1:D:401:LEU:HD23	1:D:404:ARG:HH21	1.69	0.58
1:D:737:ILE:CD1	1:D:832:ASP:C	2.72	0.58
1:D:1009:LEU:HB3	1:D:1014:TYR:OH	2.04	0.58
1:C:1009:LEU:HB3	1:C:1014:TYR:OH	2.04	0.58
1:D:7:LEU:O	1:D:10:VAL:HG12	2.03	0.58
1:D:99:ILE:CD1	1:D:106:PRO:HB3	2.32	0.58
1:B:603:MET:CE	1:B:930:VAL:CG2	2.73	0.58
1:B:556:PHE:HE1	1:B:565:GLY:H	1.51	0.58
1:C:21:VAL:HG11	1:C:24:LEU:CD2	2.24	0.58
1:B:905:ASN:HD22	1:B:913:ALA:HB2	1.68	0.58
1:D:783:GLN:NE2	1:D:881:ARG:NE	2.51	0.58
1:B:303:ALA:HB2	1:B:408:TYR:CZ	2.38	0.58
1:C:230:ARG:NH1	1:C:241:GLU:CD	2.51	0.58
1:C:147:ASN:OD1	1:C:148:SER:N	2.36	0.58
1:D:147:ASN:OD1	1:D:148:SER:N	2.36	0.58
1:D:230:ARG:NH1	1:D:241:GLU:CD	2.51	0.58
1:D:816:TYR:HE2	1:D:968:MET:HE3	1.68	0.58
1:C:842:TRP:HZ3	1:C:852:SER:HB3	1.68	0.58
1:C:245:GLN:HG2	1:C:288:ARG:HG2	1.85	0.58
1:D:221:GLN:HE21	1:D:221:GLN:CA	2.16	0.58
1:D:254:LEU:HD13	1:D:315:LEU:HD11	1.85	0.58
1:D:52:ARG:O	1:D:213:SER:HB3	2.04	0.58
1:C:52:ARG:O	1:C:213:SER:HB3	2.04	0.58
1:A:91:GLN:NE2	1:A:96:ASP:HB3	1.96	0.58
1:C:395:HIS:CG	1:C:396:PRO:CD	2.73	0.58
1:B:201:ASP:O	1:B:201:ASP:OD1	2.21	0.58
1:B:546:LEU:HD22	1:B:616:ALA:HB1	1.86	0.58
1:A:201:ASP:OD1	1:A:201:ASP:O	2.21	0.58
1:C:783:GLN:NE2	1:C:881:ARG:NE	2.51	0.58
1:A:546:LEU:HD22	1:A:616:ALA:HB1	1.86	0.58
1:D:842:TRP:HZ3	1:D:852:SER:HB3	1.68	0.58
1:A:401:LEU:HD23	1:A:404:ARG:HH21	1.69	0.58
1:D:173:LEU:HB3	1:D:177:LEU:CD2	2.29	0.58
1:C:901:GLY:HA3	1:C:918:TRP:CE2	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1009:LEU:HA	1:A:1014:TYR:OH	2.04	0.58
1:C:35:SER:OG	1:C:216:HIS:O	2.18	0.58
1:D:693:GLN:HE21	1:D:721:ARG:CB	2.08	0.58
1:D:358:GLU:CB	1:D:367:MET:HE2	2.32	0.58
1:D:395:HIS:CG	1:D:396:PRO:CD	2.73	0.58
1:C:755:ARG:HB2	1:C:769:TRP:HB2	1.86	0.58
1:B:445:GLN:HE21	1:C:430:PRO:HG3	1.65	0.58
1:B:401:LEU:HD23	1:B:404:ARG:HH21	1.69	0.58
1:D:901:GLY:HA3	1:D:918:TRP:CE2	2.39	0.58
1:B:830:LEU:CA	1:B:833:ALA:O	2.52	0.58
1:B:823:LEU:HD12	1:B:824:GLN:CB	2.34	0.58
1:A:823:LEU:HD12	1:A:824:GLN:CB	2.34	0.58
1:D:245:GLN:HG2	1:D:288:ARG:HG2	1.85	0.58
1:A:99:ILE:CD1	1:A:106:PRO:CB	2.80	0.58
1:D:755:ARG:HB2	1:D:769:TRP:HB2	1.86	0.58
1:A:550:ALA:CB	1:A:623:GLN:HE21	2.09	0.58
1:D:540:HIS:HD2	1:D:568:TRP:HD1	1.51	0.58
1:A:807:VAL:O	1:A:811:LYS:HG2	2.03	0.58
1:B:656:VAL:HG22	1:B:696:LEU:HD13	1.85	0.58
1:D:524:LEU:HD13	1:D:561:ARG:HB3	1.86	0.58
1:C:148:SER:OG	1:C:192:SER:CB	2.42	0.58
1:B:1009:LEU:HA	1:B:1014:TYR:OH	2.04	0.58
1:B:842:TRP:HZ3	1:B:852:SER:HB3	1.68	0.58
1:A:830:LEU:CA	1:A:833:ALA:O	2.52	0.57
1:B:747:PHE:CD1	1:B:760:ARG:NE	2.53	0.57
1:C:254:LEU:HD13	1:C:315:LEU:HD11	1.85	0.57
1:A:603:MET:CE	1:A:930:VAL:CG2	2.73	0.57
1:B:99:ILE:CD1	1:B:106:PRO:CB	2.80	0.57
1:B:755:ARG:HB2	1:B:769:TRP:HB2	1.86	0.57
1:B:807:VAL:O	1:B:811:LYS:HG2	2.03	0.57
1:C:540:HIS:HD2	1:C:568:TRP:HD1	1.51	0.57
1:C:400:THR:HG22	1:C:404:ARG:NH1	2.18	0.57
1:A:656:VAL:HG22	1:A:696:LEU:HD13	1.85	0.57
1:A:608:PHE:HB2	1:A:612:THR:H	1.69	0.57
1:D:608:PHE:HB2	1:D:612:THR:H	1.69	0.57
1:C:524:LEU:HD13	1:C:561:ARG:HB3	1.86	0.57
1:C:875:ASP:CB	1:D:723:ALA:CB	2.79	0.57
1:C:63:PHE:HE2	1:C:70:PRO:HD3	1.67	0.57
1:C:173:LEU:HB3	1:C:177:LEU:CD2	2.29	0.57
1:B:491:ALA:O	1:B:499:ILE:HG23	2.03	0.57
1:A:842:TRP:HZ3	1:A:852:SER:HB3	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:546:LEU:HD22	1:C:616:ALA:HB1	1.86	0.57
1:B:946:TYR:HH	1:B:982:THR:HG21	1.68	0.57
1:D:400:THR:HG22	1:D:404:ARG:NH1	2.18	0.57
1:B:608:PHE:HB2	1:B:612:THR:H	1.69	0.57
1:C:608:PHE:HB2	1:C:612:THR:H	1.69	0.57
1:C:723:ALA:CB	1:D:875:ASP:CB	2.79	0.57
1:A:737:ILE:CD1	1:A:832:ASP:CA	2.83	0.57
1:B:737:ILE:CD1	1:B:832:ASP:CA	2.83	0.57
1:D:63:PHE:HE2	1:D:70:PRO:HD3	1.67	0.57
1:B:337:ILE:CD1	1:B:483:PRO:CG	2.80	0.57
1:B:469:ASP:O	1:C:473:ARG:CG	2.52	0.57
1:A:469:ASP:O	1:D:473:ARG:CG	2.51	0.57
1:B:758:PHE:HA	1:B:765:LEU:HA	1.87	0.57
1:B:245:GLN:HG2	1:B:288:ARG:HG2	1.85	0.57
1:B:245:GLN:OE1	1:B:288:ARG:CZ	2.53	0.57
1:A:245:GLN:OE1	1:A:288:ARG:CZ	2.53	0.57
1:C:556:PHE:HE1	1:C:565:GLY:H	1.51	0.57
1:D:556:PHE:HE1	1:D:565:GLY:H	1.51	0.57
1:D:546:LEU:HD22	1:D:616:ALA:HB1	1.86	0.57
1:D:41:GLU:O	1:D:45:ASP:N	2.35	0.57
1:B:41:GLU:O	1:B:45:ASP:N	2.35	0.57
1:B:901:GLY:HA3	1:B:918:TRP:CE2	2.39	0.57
1:C:164:ASP:OD1	1:C:439:ARG:NH1	2.37	0.57
1:A:491:ALA:O	1:A:499:ILE:HG23	2.03	0.57
1:C:246:MET:CE	1:C:274:PHE:HE2	1.97	0.57
1:D:246:MET:CE	1:D:274:PHE:HE2	1.97	0.57
1:A:245:GLN:HG2	1:A:288:ARG:HG2	1.85	0.57
1:D:540:HIS:O	1:D:545:SER:CB	2.40	0.57
1:A:838:THR:OG1	1:A:854:LYS:CG	2.51	0.57
1:A:337:ILE:CD1	1:A:483:PRO:CG	2.80	0.57
1:C:41:GLU:O	1:C:45:ASP:N	2.35	0.57
1:B:1009:LEU:HB3	1:B:1014:TYR:OH	2.04	0.57
1:A:1009:LEU:HB3	1:A:1014:TYR:OH	2.04	0.57
1:D:164:ASP:OD1	1:D:439:ARG:NH1	2.37	0.57
1:B:592:PHE:CD1	1:B:592:PHE:N	2.73	0.57
1:A:592:PHE:N	1:A:592:PHE:CD1	2.73	0.57
1:A:758:PHE:HA	1:A:765:LEU:HA	1.87	0.57
1:A:824:GLN:HE22	1:A:825:CYS:CA	2.10	0.57
1:C:253:TYR:CD1	1:C:254:LEU:N	2.73	0.57
1:B:221:GLN:HE21	1:B:221:GLN:CA	2.16	0.57
1:B:246:MET:HE2	1:B:274:PHE:CE2	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:221:GLN:HE21	1:A:221:GLN:CA	2.16	0.57
1:B:91:GLN:NE2	1:B:96:ASP:HB3	1.97	0.57
1:D:23:GLN:H	1:D:23:GLN:HE21	1.52	0.57
1:C:23:GLN:H	1:C:23:GLN:HE21	1.52	0.57
1:B:615:PRO:HB3	1:B:904:GLU:CG	2.34	0.57
1:A:440:VAL:HG11	1:A:458:LEU:HD22	1.87	0.57
1:B:524:LEU:HD13	1:B:561:ARG:HB3	1.86	0.57
1:B:867:THR:HG23	1:B:1017:GLN:CD	2.19	0.57
1:B:52:ARG:O	1:B:213:SER:HB3	2.04	0.57
1:A:52:ARG:O	1:A:213:SER:HB3	2.04	0.57
1:D:277:GLU:O	1:D:278:ILE:HG22	2.05	0.57
1:C:277:GLU:O	1:C:278:ILE:HG22	2.05	0.57
1:A:41:GLU:O	1:A:45:ASP:N	2.35	0.57
1:A:901:GLY:HA3	1:A:918:TRP:CE2	2.39	0.57
1:C:305:ILE:CG2	1:C:307:ASN:OD1	2.53	0.57
1:D:758:PHE:HA	1:D:765:LEU:HA	1.87	0.57
1:A:747:PHE:CD1	1:A:760:ARG:NE	2.53	0.57
1:B:824:GLN:HE22	1:B:825:CYS:CA	2.10	0.57
1:C:245:GLN:OE1	1:C:288:ARG:CZ	2.53	0.57
1:D:245:GLN:OE1	1:D:288:ARG:CZ	2.53	0.57
1:D:253:TYR:CD1	1:D:254:LEU:N	2.73	0.57
1:B:254:LEU:HD13	1:B:315:LEU:HD11	1.85	0.57
1:B:111:PRO:HD3	1:B:196:TYR:CE2	2.37	0.57
1:C:534:ILE:CG1	1:C:563:GLN:HB2	2.32	0.57
1:A:615:PRO:HB3	1:A:904:GLU:CG	2.34	0.57
1:A:524:LEU:HD13	1:A:561:ARG:HB3	1.86	0.57
1:B:440:VAL:HG11	1:B:458:LEU:HD22	1.87	0.57
1:B:737:ILE:HD11	1:B:831:ALA:O	2.04	0.57
1:B:838:THR:OG1	1:B:854:LYS:CG	2.52	0.57
1:A:590:GLY:N	1:A:597:ASN:HB2	2.20	0.57
1:B:590:GLY:N	1:B:597:ASN:HB2	2.20	0.57
1:D:305:ILE:CG2	1:D:307:ASN:OD1	2.53	0.57
1:B:155:ASN:OD1	1:B:182:ASN:HB3	2.05	0.57
1:A:111:PRO:HD3	1:A:196:TYR:CE2	2.37	0.57
1:D:487:GLU:HG3	1:D:502:MET:CE	2.32	0.57
1:D:486:TYR:H	1:D:496:THR:CB	2.18	0.57
1:D:474:TRP:CE2	1:D:478:VAL:CG1	2.82	0.57
1:A:737:ILE:HD11	1:A:831:ALA:O	2.04	0.57
1:B:943:GLU:OE1	1:B:950:GLN:NE2	2.38	0.57
1:B:277:GLU:O	1:B:278:ILE:HG22	2.05	0.57
1:A:943:GLU:OE1	1:A:950:GLN:NE2	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:758:PHE:HA	1:C:765:LEU:HA	1.87	0.57
1:D:654:TRP:CZ2	1:D:683:PRO:HD2	2.40	0.57
1:C:654:TRP:CZ2	1:C:683:PRO:HD2	2.40	0.57
1:B:253:TYR:CD1	1:B:254:LEU:N	2.73	0.57
1:A:254:LEU:HD13	1:A:315:LEU:HD11	1.85	0.57
1:A:652:LEU:CD1	1:A:698:VAL:HG13	2.33	0.57
1:C:200:GLN:O	1:C:202:MET:HE2	2.02	0.57
1:D:807:VAL:O	1:D:811:LYS:HG2	2.03	0.57
1:B:540:HIS:HD2	1:B:568:TRP:HD1	1.51	0.57
1:C:487:GLU:HG3	1:C:502:MET:CE	2.32	0.57
1:C:540:HIS:O	1:C:545:SER:CB	2.40	0.57
1:B:961:ARG:HD3	1:B:981:GLY:O	2.04	0.57
1:A:961:ARG:HD3	1:A:981:GLY:O	2.04	0.57
1:A:486:TYR:H	1:A:496:THR:HB	1.70	0.57
1:A:867:THR:HG23	1:A:1017:GLN:CD	2.19	0.57
1:C:486:TYR:H	1:C:496:THR:CB	2.18	0.57
1:C:474:TRP:CE2	1:C:478:VAL:CG1	2.82	0.57
1:A:277:GLU:O	1:A:278:ILE:HG22	2.05	0.57
1:B:944:LEU:HD12	1:B:944:LEU:C	2.25	0.57
1:C:590:GLY:N	1:C:597:ASN:HB2	2.20	0.57
1:D:592:PHE:N	1:D:592:PHE:CD1	2.73	0.57
1:C:592:PHE:CD1	1:C:592:PHE:N	2.73	0.57
1:A:155:ASN:OD1	1:A:182:ASN:HB3	2.05	0.57
1:C:823:LEU:HD12	1:C:824:GLN:CB	2.34	0.57
1:A:253:TYR:CD1	1:A:254:LEU:N	2.73	0.57
1:B:652:LEU:CD1	1:B:698:VAL:HG13	2.33	0.57
1:C:125:LEU:HD11	1:C:127:PHE:HB3	1.86	0.57
1:D:23:GLN:HG3	1:D:26:ARG:NH2	2.20	0.57
1:C:23:GLN:HG3	1:C:26:ARG:NH2	2.20	0.57
1:C:807:VAL:O	1:C:811:LYS:HG2	2.03	0.57
1:A:944:LEU:C	1:A:944:LEU:HD12	2.25	0.57
1:D:590:GLY:N	1:D:597:ASN:HB2	2.20	0.57
1:C:155:ASN:OD1	1:C:182:ASN:HB3	2.05	0.57
1:D:155:ASN:OD1	1:D:182:ASN:HB3	2.05	0.57
1:B:779:PRO:HG2	1:B:781:ARG:HH11	1.69	0.57
1:D:125:LEU:HD11	1:D:127:PHE:HB3	1.86	0.57
1:A:599:ARG:CG	1:A:600:GLN:N	2.66	0.57
1:C:961:ARG:HD3	1:C:981:GLY:O	2.04	0.57
1:A:382:ASN:OD1	1:A:617:LEU:CD2	2.53	0.57
1:B:382:ASN:OD1	1:B:617:LEU:CD2	2.53	0.57
1:B:486:TYR:H	1:B:496:THR:HB	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:737:ILE:CD1	1:C:832:ASP:CA	2.82	0.57
1:B:277:GLU:O	1:B:278:ILE:CG2	2.53	0.57
1:B:164:ASP:OD1	1:B:439:ARG:NH1	2.37	0.57
1:B:145:GLY:N	1:B:210:ARG:HB3	2.20	0.57
1:C:145:GLY:HA3	1:C:210:ARG:HD2	1.87	0.57
1:C:145:GLY:N	1:C:210:ARG:HB3	2.20	0.57
1:A:145:GLY:N	1:A:210:ARG:HB3	2.20	0.57
1:D:145:GLY:N	1:D:210:ARG:HB3	2.20	0.57
1:D:145:GLY:HA3	1:D:210:ARG:HD2	1.87	0.57
1:B:850:PHE:CD1	1:B:850:PHE:N	2.73	0.56
1:D:823:LEU:HD12	1:D:824:GLN:CB	2.34	0.56
1:C:117:GLU:C	1:C:118:ASN:HD22	2.09	0.56
1:B:200:GLN:O	1:B:202:MET:HE2	2.05	0.56
1:A:755:ARG:HB2	1:A:769:TRP:HB2	1.86	0.56
1:C:550:ALA:HB1	1:C:623:GLN:HE22	1.70	0.56
1:B:599:ARG:CG	1:B:600:GLN:N	2.66	0.56
1:A:498:ILE:HG22	1:A:532:PRO:CG	2.29	0.56
1:D:737:ILE:CD1	1:D:832:ASP:CA	2.83	0.56
1:A:277:GLU:O	1:A:278:ILE:CG2	2.53	0.56
1:B:305:ILE:CG2	1:B:307:ASN:OD1	2.53	0.56
1:C:830:LEU:CA	1:C:833:ALA:O	2.52	0.56
1:A:850:PHE:N	1:A:850:PHE:CD1	2.73	0.56
1:D:970:THR:OG1	1:D:976:LEU:HD23	2.05	0.56
1:B:654:TRP:CZ2	1:B:683:PRO:HD2	2.40	0.56
1:A:654:TRP:CZ2	1:A:683:PRO:HD2	2.40	0.56
1:D:200:GLN:O	1:D:202:MET:HE2	2.02	0.56
1:B:105:TYR:HH	1:B:420:MET:HG2	1.68	0.56
1:A:358:GLU:CB	1:A:367:MET:HE2	2.29	0.56
1:D:550:ALA:HB1	1:D:623:GLN:HE22	1.70	0.56
1:C:939:CYS:HG	1:C:956:GLN:HG2	1.68	0.56
1:B:456:TRP:CD1	1:B:482:ARG:HB2	2.40	0.56
1:A:232:ASN:OD1	1:A:237:ARG:C	2.40	0.56
1:B:232:ASN:OD1	1:B:237:ARG:C	2.40	0.56
1:D:1022:GLN:HE21	1:D:1022:GLN:HA	1.70	0.56
1:A:164:ASP:OD1	1:A:439:ARG:NH1	2.37	0.56
1:A:305:ILE:CG2	1:A:307:ASN:OD1	2.53	0.56
1:D:830:LEU:CA	1:D:833:ALA:O	2.52	0.56
1:D:849:LEU:CB	1:D:850:PHE:CE1	2.88	0.56
1:C:849:LEU:CB	1:C:850:PHE:CE1	2.88	0.56
1:A:779:PRO:HG2	1:A:781:ARG:HH11	1.69	0.56
1:C:30:HIS:NE2	1:C:33:PHE:HZ	1.96	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:221:GLN:N	1:C:221:GLN:HE21	2.03	0.56
1:C:246:MET:CG	1:C:250:LEU:CD2	2.84	0.56
1:D:246:MET:CG	1:D:250:LEU:CD2	2.84	0.56
1:C:970:THR:OG1	1:C:976:LEU:HD23	2.05	0.56
1:B:246:MET:HB3	1:B:274:PHE:HZ	1.64	0.56
1:D:105:TYR:CE2	1:D:199:ASP:HB2	2.40	0.56
1:D:117:GLU:C	1:D:118:ASN:HD22	2.09	0.56
1:D:200:GLN:N	1:D:416:GLU:HG2	2.21	0.56
1:D:80:GLU:OE2	1:D:81:ALA:HA	2.05	0.56
1:C:105:TYR:CE2	1:C:199:ASP:HB2	2.40	0.56
1:D:359:HIS:H	1:D:367:MET:HE1	1.65	0.56
1:B:23:GLN:H	1:B:23:GLN:HE21	1.52	0.56
1:A:23:GLN:H	1:A:23:GLN:HE21	1.52	0.56
1:C:802:ASP:OD1	1:C:803:PRO:CD	2.50	0.56
1:D:961:ARG:HD3	1:D:981:GLY:O	2.04	0.56
1:A:456:TRP:CD1	1:A:482:ARG:HB2	2.40	0.56
1:A:486:TYR:H	1:A:496:THR:CB	2.18	0.56
1:C:486:TYR:H	1:C:496:THR:HB	1.70	0.56
1:D:277:GLU:O	1:D:278:ILE:CG2	2.53	0.56
1:C:277:GLU:O	1:C:278:ILE:CG2	2.53	0.56
1:B:993:ILE:HG13	1:B:994:GLY:N	2.19	0.56
1:D:1009:LEU:CA	1:D:1014:TYR:OH	2.53	0.56
1:B:1009:LEU:CA	1:B:1014:TYR:OH	2.53	0.56
1:A:1009:LEU:CA	1:A:1014:TYR:OH	2.53	0.56
1:B:1022:GLN:HE21	1:B:1022:GLN:HA	1.70	0.56
1:A:1022:GLN:HE21	1:A:1022:GLN:HA	1.70	0.56
1:C:1022:GLN:HE21	1:C:1022:GLN:HA	1.70	0.56
1:A:473:ARG:HG2	1:D:469:ASP:O	2.05	0.56
1:D:221:GLN:HE21	1:D:221:GLN:N	2.03	0.56
1:D:30:HIS:NE2	1:D:33:PHE:HZ	1.96	0.56
1:D:205:MET:HE3	1:D:365:GLN:N	2.20	0.56
1:C:200:GLN:N	1:C:416:GLU:HG2	2.21	0.56
1:B:550:ALA:HB1	1:B:623:GLN:HE22	1.71	0.56
1:A:550:ALA:HB1	1:A:623:GLN:HE22	1.70	0.56
1:C:615:PRO:HG3	1:C:927:THR:HG21	1.88	0.56
1:C:905:ASN:HD22	1:C:913:ALA:HB2	1.68	0.56
1:B:498:ILE:HG22	1:B:532:PRO:CG	2.29	0.56
1:D:440:VAL:HG11	1:D:458:LEU:HD22	1.87	0.56
1:D:486:TYR:H	1:D:496:THR:HB	1.70	0.56
1:C:440:VAL:HG11	1:C:458:LEU:HD22	1.87	0.56
1:C:1009:LEU:CA	1:C:1014:TYR:OH	2.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:473:ARG:HG2	1:C:469:ASP:O	2.05	0.56
1:B:246:MET:CG	1:B:250:LEU:CD2	2.84	0.56
1:A:246:MET:HB3	1:A:274:PHE:HZ	1.64	0.56
1:C:107:ILE:CD1	1:C:196:TYR:HE1	2.10	0.56
1:C:80:GLU:OE2	1:C:81:ALA:HA	2.05	0.56
1:A:89:ASN:HD22	1:A:205:MET:HE3	1.69	0.56
1:B:200:GLN:N	1:B:416:GLU:HG2	2.21	0.56
1:D:615:PRO:HG3	1:D:927:THR:HG21	1.88	0.56
1:B:891:VAL:CG2	1:B:961:ARG:NH2	2.69	0.56
1:A:891:VAL:CG2	1:A:961:ARG:NH2	2.69	0.56
1:B:486:TYR:H	1:B:496:THR:CB	2.18	0.56
1:D:737:ILE:HD11	1:D:831:ALA:O	2.04	0.56
1:D:943:GLU:OE1	1:D:950:GLN:NE2	2.37	0.56
1:A:993:ILE:HG13	1:A:994:GLY:N	2.19	0.56
1:A:178:ARG:H	1:A:182:ASN:ND2	2.04	0.56
1:B:178:ARG:H	1:B:182:ASN:ND2	2.04	0.56
1:A:759:ASN:HD22	1:A:762:SER:HB3	1.66	0.56
1:B:759:ASN:HD22	1:B:762:SER:HB3	1.66	0.56
1:A:246:MET:CG	1:A:250:LEU:CD2	2.84	0.56
1:C:205:MET:HE3	1:C:365:GLN:N	2.20	0.56
1:A:125:LEU:HD11	1:A:127:PHE:HB3	1.86	0.56
1:A:200:GLN:N	1:A:416:GLU:HG2	2.21	0.56
1:D:802:ASP:OD1	1:D:803:PRO:CD	2.50	0.56
1:B:354:VAL:HG11	1:B:379:MET:HE2	1.87	0.56
1:C:343:LEU:HD22	1:C:346:GLY:C	2.26	0.56
1:C:943:GLU:OE1	1:C:950:GLN:NE2	2.37	0.56
1:C:868:VAL:HB	1:C:1016:TYR:CE2	2.41	0.56
1:D:868:VAL:HB	1:D:1016:TYR:CE2	2.41	0.56
1:D:850:PHE:CD1	1:D:850:PHE:N	2.73	0.56
1:C:850:PHE:CD1	1:C:850:PHE:N	2.73	0.56
1:B:221:GLN:NE2	1:B:221:GLN:H	2.04	0.56
1:A:246:MET:HE2	1:A:274:PHE:CE2	2.36	0.56
1:C:111:PRO:CB	1:C:196:TYR:CD2	2.60	0.56
1:B:125:LEU:HD11	1:B:127:PHE:HB3	1.86	0.56
1:B:390:SER:C	1:B:391:HIS:ND1	2.50	0.56
1:B:359:HIS:H	1:B:367:MET:HE1	1.65	0.56
1:D:905:ASN:HD22	1:D:913:ALA:HB2	1.68	0.56
1:B:699:ARG:HA	1:B:717:TRP:HA	1.88	0.56
1:A:699:ARG:HA	1:A:717:TRP:HA	1.88	0.56
1:D:446:ARG:NE	1:D:447:ASP:OD1	2.27	0.56
1:A:469:ASP:O	1:D:473:ARG:HG2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:427:THR:CB	1:B:436:MET:CE	2.44	0.56
1:A:849:LEU:CB	1:A:850:PHE:CE1	2.88	0.56
1:B:849:LEU:CB	1:B:850:PHE:CE1	2.88	0.56
1:A:221:GLN:NE2	1:A:221:GLN:H	2.04	0.56
1:A:105:TYR:CE2	1:A:199:ASP:HB2	2.40	0.56
1:A:190:ARG:HA	1:A:206:SER:CB	2.36	0.56
1:A:390:SER:C	1:A:391:HIS:ND1	2.50	0.56
1:C:382:ASN:OD1	1:C:617:LEU:CD2	2.53	0.56
1:B:297:ASN:N	1:B:298:PRO:CD	2.68	0.56
1:B:147:ASN:HA	1:B:165:SER:HB3	1.88	0.56
1:D:456:TRP:CD1	1:D:482:ARG:HB2	2.40	0.56
1:C:456:TRP:CD1	1:C:482:ARG:HB2	2.40	0.56
1:C:147:ASN:HA	1:C:165:SER:HB3	1.88	0.56
1:C:737:ILE:HD11	1:C:831:ALA:O	2.04	0.56
1:A:706:THR:CG2	1:A:707:ALA:N	2.69	0.56
1:B:706:THR:CG2	1:B:707:ALA:N	2.69	0.56
1:C:1013:ARG:HB2	1:C:1013:ARG:CZ	2.36	0.56
1:D:1013:ARG:CZ	1:D:1013:ARG:HB2	2.36	0.56
1:A:849:LEU:HB2	1:A:850:PHE:CD1	2.41	0.56
1:B:849:LEU:HB2	1:B:850:PHE:CD1	2.41	0.56
1:A:256:VAL:HG21	1:A:274:PHE:CE1	2.27	0.56
1:D:62:TRP:NE1	1:D:96:ASP:OD2	2.38	0.56
1:B:105:TYR:CE2	1:B:199:ASP:HB2	2.40	0.56
1:B:190:ARG:HA	1:B:206:SER:CB	2.36	0.56
1:D:382:ASN:OD1	1:D:617:LEU:CD2	2.53	0.56
1:A:147:ASN:HA	1:A:165:SER:HB3	1.88	0.56
1:D:147:ASN:HA	1:D:165:SER:HB3	1.88	0.56
1:D:343:LEU:HD22	1:D:346:GLY:C	2.25	0.56
1:C:950:GLN:HG2	1:C:952:ARG:NH2	2.21	0.56
1:D:950:GLN:HG2	1:D:952:ARG:NH2	2.21	0.56
1:C:993:ILE:HG13	1:C:994:GLY:N	2.19	0.56
1:C:446:ARG:NE	1:C:447:ASP:OD1	2.27	0.56
1:B:469:ASP:O	1:C:473:ARG:HG2	2.06	0.56
1:C:221:GLN:NE2	1:C:221:GLN:H	2.04	0.56
1:D:221:GLN:NE2	1:D:221:GLN:H	2.04	0.56
1:C:190:ARG:HA	1:C:206:SER:CB	2.36	0.56
1:C:62:TRP:NE1	1:C:96:ASP:OD2	2.38	0.56
1:A:942:ARG:HH21	1:A:942:ARG:CG	2.14	0.56
1:A:297:ASN:N	1:A:298:PRO:CD	2.68	0.56
1:B:86:VAL:CG1	1:B:87:PRO:CA	2.82	0.56
1:A:86:VAL:CG1	1:A:87:PRO:CA	2.82	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:343:LEU:HD22	1:B:346:GLY:C	2.26	0.56
1:D:993:ILE:HG13	1:D:994:GLY:N	2.19	0.56
1:D:625:GLN:HB2	1:D:716:ALA:HB2	1.88	0.56
1:D:190:ARG:HA	1:D:206:SER:CB	2.36	0.55
1:C:86:VAL:CG1	1:C:87:PRO:CA	2.82	0.55
1:A:23:GLN:HG3	1:A:26:ARG:NH2	2.20	0.55
1:D:939:CYS:SG	1:D:956:GLN:HG3	2.46	0.55
1:D:376:ILE:HG12	1:D:398:TRP:CH2	2.41	0.55
1:A:577:LYS:HB3	1:A:585:TRP:CE2	2.41	0.55
1:D:343:LEU:CD2	1:D:347:LYS:N	2.69	0.55
1:C:343:LEU:CD2	1:C:347:LYS:N	2.69	0.55
1:B:333:ARG:NE	1:B:451:PRO:O	2.29	0.55
1:C:297:ASN:N	1:C:298:PRO:CD	2.68	0.55
1:D:297:ASN:N	1:D:298:PRO:CD	2.68	0.55
1:C:906:TYR:CZ	1:C:934:GLU:OE2	2.59	0.55
1:D:747:PHE:CD1	1:D:760:ARG:NE	2.53	0.55
1:C:349:LEU:HD22	1:C:351:ILE:HD11	1.84	0.55
1:B:221:GLN:HE21	1:B:221:GLN:N	2.03	0.55
1:D:724:GLU:OE2	1:D:725:ASN:C	2.45	0.55
1:C:724:GLU:OE2	1:C:725:ASN:C	2.45	0.55
1:B:724:GLU:OE2	1:B:725:ASN:C	2.45	0.55
1:A:62:TRP:NE1	1:A:96:ASP:OD2	2.38	0.55
1:B:14:ARG:HD3	1:B:17:GLU:CB	2.37	0.55
1:B:62:TRP:NE1	1:B:96:ASP:OD2	2.38	0.55
1:B:23:GLN:HG3	1:B:26:ARG:NH2	2.20	0.55
1:C:939:CYS:SG	1:C:956:GLN:HG3	2.46	0.55
1:B:577:LYS:HB3	1:B:585:TRP:CE2	2.41	0.55
1:D:608:PHE:O	1:D:611:ARG:HB3	2.05	0.55
1:B:942:ARG:HH21	1:B:942:ARG:CG	2.14	0.55
1:A:343:LEU:HD22	1:A:346:GLY:C	2.26	0.55
1:D:277:GLU:C	1:D:278:ILE:HG22	2.27	0.55
1:C:277:GLU:C	1:C:278:ILE:HG22	2.27	0.55
1:D:906:TYR:CZ	1:D:934:GLU:OE2	2.59	0.55
1:C:625:GLN:HB2	1:C:716:ALA:HB2	1.89	0.55
1:C:256:VAL:CG2	1:C:315:LEU:HD13	2.35	0.55
1:D:970:THR:OG1	1:D:976:LEU:HD22	2.05	0.55
1:B:970:THR:OG1	1:B:976:LEU:HD22	2.05	0.55
1:D:100:TYR:OH	1:D:602:CYS:HB3	1.99	0.55
1:A:221:GLN:HE21	1:A:221:GLN:N	2.03	0.55
1:A:30:HIS:NE2	1:A:33:PHE:HZ	1.96	0.55
1:A:258:VAL:N	1:A:270:GLY:O	2.31	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:724:GLU:OE2	1:A:725:ASN:C	2.45	0.55
1:D:86:VAL:CG1	1:D:87:PRO:CA	2.82	0.55
1:C:89:ASN:OD1	1:C:209:PHE:HB3	2.07	0.55
1:A:14:ARG:HD3	1:A:17:GLU:CB	2.37	0.55
1:B:891:VAL:CG2	1:B:961:ARG:HH21	2.18	0.55
1:C:891:VAL:CG2	1:C:961:ARG:NH2	2.69	0.55
1:D:891:VAL:CG2	1:D:961:ARG:NH2	2.69	0.55
1:C:376:ILE:HG12	1:C:398:TRP:CH2	2.42	0.55
1:A:607:VAL:CG1	1:A:617:LEU:CD1	2.73	0.55
1:C:608:PHE:O	1:C:611:ARG:HB3	2.05	0.55
1:C:609:ALA:C	1:C:611:ARG:HB3	2.27	0.55
1:C:719:GLN:OE1	1:C:914:CYS:CA	2.55	0.55
1:B:277:GLU:C	1:B:278:ILE:HG22	2.27	0.55
1:A:277:GLU:C	1:A:278:ILE:HG22	2.27	0.55
1:C:144:ASP:HB2	1:C:210:ARG:HB3	1.88	0.55
1:A:513:PRO:O	1:A:514:ALA:HB3	2.07	0.55
1:B:513:PRO:O	1:B:514:ALA:HB3	2.07	0.55
1:B:256:VAL:HG21	1:B:274:PHE:CE1	2.27	0.55
1:D:657:ALA:CB	1:D:661:LYS:C	2.72	0.55
1:D:89:ASN:OD1	1:D:209:PHE:HB3	2.07	0.55
1:A:80:GLU:OE2	1:A:81:ALA:HA	2.05	0.55
1:B:89:ASN:OD1	1:B:209:PHE:HB3	2.07	0.55
1:C:788:PRO:HB2	1:C:793:ILE:CD1	2.36	0.55
1:B:599:ARG:HG2	1:B:600:GLN:N	2.22	0.55
1:B:788:PRO:HB2	1:B:793:ILE:CD1	2.37	0.55
1:A:599:ARG:HG2	1:A:600:GLN:N	2.22	0.55
1:A:788:PRO:HB2	1:A:793:ILE:CD1	2.37	0.55
1:A:891:VAL:CG2	1:A:961:ARG:HH21	2.18	0.55
1:D:609:ALA:C	1:D:611:ARG:HB3	2.27	0.55
1:D:719:GLN:OE1	1:D:914:CYS:CA	2.55	0.55
1:D:6:SER:OG	1:D:9:VAL:HG23	2.06	0.55
1:B:6:SER:OG	1:B:9:VAL:HG23	2.06	0.55
1:D:144:ASP:HB2	1:D:210:ARG:HB3	1.88	0.55
1:A:427:THR:CB	1:A:436:MET:CE	2.44	0.55
1:D:256:VAL:CG2	1:D:315:LEU:HD13	2.35	0.55
1:D:33:PHE:O	1:D:34:ALA:HB3	2.07	0.55
1:C:970:THR:OG1	1:C:976:LEU:HD22	2.05	0.55
1:A:970:THR:OG1	1:A:976:LEU:HD22	2.05	0.55
1:A:33:PHE:O	1:A:34:ALA:HB3	2.07	0.55
1:A:117:GLU:C	1:A:118:ASN:HD22	2.09	0.55
1:A:89:ASN:OD1	1:A:209:PHE:HB3	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:117:GLU:C	1:B:118:ASN:HD22	2.09	0.55
1:D:788:PRO:HB2	1:D:793:ILE:CD1	2.37	0.55
1:A:939:CYS:SG	1:A:956:GLN:HG3	2.46	0.55
1:D:577:LYS:HB3	1:D:585:TRP:CE2	2.41	0.55
1:C:577:LYS:HB3	1:C:585:TRP:CE2	2.41	0.55
1:B:607:VAL:CG1	1:B:617:LEU:CD1	2.73	0.55
1:B:352:ARG:HD2	1:B:352:ARG:N	2.22	0.55
1:A:352:ARG:N	1:A:352:ARG:HD2	2.22	0.55
1:C:719:GLN:HE22	1:C:915:PHE:H	1.55	0.55
1:C:6:SER:OG	1:C:9:VAL:HG23	2.06	0.55
1:A:333:ARG:NE	1:A:451:PRO:O	2.30	0.55
1:A:906:TYR:CZ	1:A:934:GLU:OE2	2.59	0.55
1:B:868:VAL:HB	1:B:1016:TYR:CE2	2.41	0.55
1:A:868:VAL:HB	1:A:1016:TYR:CE2	2.41	0.55
1:A:758:PHE:CE1	1:A:765:LEU:CB	2.82	0.55
1:B:758:PHE:CE1	1:B:765:LEU:CB	2.82	0.55
1:D:349:LEU:HD22	1:D:351:ILE:HD11	1.84	0.55
1:C:33:PHE:O	1:C:34:ALA:HB3	2.07	0.55
1:B:33:PHE:O	1:B:34:ALA:HB3	2.07	0.55
1:B:534:ILE:CG1	1:B:563:GLN:HB2	2.32	0.55
1:B:939:CYS:SG	1:B:956:GLN:HG3	2.46	0.55
1:C:891:VAL:CG2	1:C:961:ARG:HH21	2.18	0.55
1:D:891:VAL:CG2	1:D:961:ARG:HH21	2.18	0.55
1:A:385:ASN:O	1:A:407:LEU:HB2	2.06	0.55
1:D:385:ASN:O	1:D:407:LEU:HB2	2.06	0.55
1:A:343:LEU:CD2	1:A:347:LYS:N	2.69	0.55
1:B:343:LEU:CD2	1:B:347:LYS:N	2.69	0.55
1:B:989:PHE:CE1	1:B:1014:TYR:HD2	2.25	0.55
1:A:989:PHE:CE1	1:A:1014:TYR:HD2	2.25	0.55
1:A:648:ASP:OD1	1:A:649:ASN:N	2.39	0.55
1:B:145:GLY:HA3	1:B:210:ARG:HD2	1.87	0.55
1:C:747:PHE:CD1	1:C:760:ARG:NE	2.53	0.55
1:A:823:LEU:CG	1:A:839:ALA:HB3	2.25	0.55
1:D:36:TRP:HZ2	1:D:327:ALA:HB3	1.71	0.55
1:A:654:TRP:CD2	1:A:666:GLY:CA	2.83	0.55
1:C:60:PHE:CD1	1:C:123:TYR:CZ	2.95	0.55
1:A:205:MET:HE3	1:A:365:GLN:N	2.21	0.55
1:A:90:TRP:CD1	1:A:91:GLN:N	2.75	0.55
1:B:80:GLU:OE2	1:B:81:ALA:HA	2.05	0.55
1:B:90:TRP:CD1	1:B:91:GLN:N	2.75	0.55
1:A:615:PRO:HG3	1:A:927:THR:HG21	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:385:ASN:O	1:B:407:LEU:HB2	2.06	0.55
1:D:719:GLN:HE22	1:D:915:PHE:H	1.55	0.55
1:A:6:SER:OG	1:A:9:VAL:HG23	2.06	0.55
1:D:699:ARG:HA	1:D:717:TRP:HA	1.88	0.55
1:C:699:ARG:HA	1:C:717:TRP:HA	1.88	0.55
1:B:906:TYR:CZ	1:B:934:GLU:OE2	2.59	0.55
1:C:989:PHE:CE1	1:C:1014:TYR:HD2	2.25	0.55
1:B:648:ASP:OD1	1:B:649:ASN:N	2.39	0.55
1:A:145:GLY:HA3	1:A:210:ARG:HD2	1.87	0.55
1:A:828:ASP:CG	1:B:830:LEU:HD22	2.27	0.55
1:A:830:LEU:HD22	1:B:828:ASP:CG	2.27	0.55
1:C:36:TRP:HZ2	1:C:327:ALA:HB3	1.71	0.55
1:C:100:TYR:OH	1:C:602:CYS:HB3	1.99	0.55
1:B:30:HIS:NE2	1:B:33:PHE:HZ	1.96	0.55
1:D:60:PHE:CD1	1:D:123:TYR:CZ	2.95	0.55
1:C:385:ASN:O	1:C:407:LEU:HB2	2.06	0.55
1:A:354:VAL:HG11	1:A:379:MET:HE2	1.88	0.55
1:A:609:ALA:C	1:A:611:ARG:HB3	2.27	0.55
1:B:609:ALA:C	1:B:611:ARG:HB3	2.27	0.55
1:C:352:ARG:HD2	1:C:352:ARG:N	2.22	0.55
1:D:333:ARG:NE	1:D:451:PRO:O	2.30	0.55
1:C:333:ARG:NE	1:C:451:PRO:O	2.30	0.55
1:D:989:PHE:CE1	1:D:1014:TYR:HD2	2.25	0.55
1:B:144:ASP:HB2	1:B:210:ARG:HB3	1.88	0.55
1:A:625:GLN:HB2	1:A:716:ALA:HB2	1.89	0.55
1:C:849:LEU:HB2	1:C:850:PHE:CD1	2.41	0.55
1:C:246:MET:HB3	1:C:274:PHE:CE2	2.41	0.55
1:A:34:ALA:HB3	1:A:36:TRP:CE3	2.42	0.55
1:B:654:TRP:CD2	1:B:666:GLY:CA	2.83	0.55
1:C:657:ALA:CB	1:C:661:LYS:C	2.72	0.55
1:C:90:TRP:CD1	1:C:91:GLN:N	2.75	0.55
1:B:205:MET:HE3	1:B:365:GLN:N	2.20	0.55
1:C:599:ARG:HG2	1:C:600:GLN:N	2.22	0.55
1:B:615:PRO:HG3	1:B:927:THR:HG21	1.88	0.55
1:A:891:VAL:HG13	1:A:961:ARG:NH2	2.04	0.55
1:D:352:ARG:N	1:D:352:ARG:HD2	2.22	0.55
1:C:458:LEU:HD11	1:C:472:TYR:HA	1.89	0.55
1:C:297:ASN:N	1:C:298:PRO:HD3	2.22	0.55
1:D:849:LEU:HB2	1:D:850:PHE:CD1	2.41	0.55
1:A:824:GLN:HE21	1:A:825:CYS:H	1.48	0.55
1:D:246:MET:HB3	1:D:274:PHE:CE2	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:34:ALA:HB3	1:B:36:TRP:CE3	2.42	0.55
1:D:691:ALA:HA	1:D:725:ASN:ND2	2.10	0.55
1:C:873:ALA:CA	1:D:724:GLU:OE1	2.55	0.55
1:C:724:GLU:OE1	1:D:873:ALA:CA	2.55	0.55
1:D:90:TRP:CD1	1:D:91:GLN:N	2.75	0.55
1:B:7:LEU:CD1	1:B:74:LEU:HD11	2.36	0.55
1:A:534:ILE:CG1	1:A:563:GLN:HB2	2.32	0.55
1:D:599:ARG:HG2	1:D:600:GLN:N	2.22	0.55
1:A:458:LEU:HD11	1:A:472:TYR:HA	1.89	0.55
1:B:458:LEU:HD11	1:B:472:TYR:HA	1.89	0.55
1:C:706:THR:CG2	1:C:707:ALA:N	2.69	0.55
1:D:297:ASN:N	1:D:298:PRO:HD3	2.22	0.55
1:C:1015:HIS:CD2	1:C:1016:TYR:N	2.75	0.55
1:D:1015:HIS:CD2	1:D:1016:TYR:N	2.75	0.55
1:A:144:ASP:HB2	1:A:210:ARG:HB3	1.88	0.55
1:B:625:GLN:HB2	1:B:716:ALA:HB2	1.89	0.55
1:A:910:LEU:HD12	1:A:910:LEU:C	2.27	0.55
1:B:764:PHE:HB3	1:B:780:LEU:O	2.07	0.54
1:B:823:LEU:CG	1:B:839:ALA:HB3	2.25	0.54
1:D:142:ILE:HG23	1:D:170:GLU:HG3	1.89	0.54
1:C:142:ILE:HG23	1:C:170:GLU:HG3	1.89	0.54
1:A:569:ASP:HB3	1:A:604:ASN:O	2.07	0.54
1:B:706:THR:HG22	1:B:707:ALA:H	1.70	0.54
1:D:706:THR:CG2	1:D:707:ALA:N	2.69	0.54
1:D:784:PHE:HE2	1:D:870:VAL:HG11	1.72	0.54
1:D:513:PRO:O	1:D:514:ALA:HB3	2.07	0.54
1:B:910:LEU:C	1:B:910:LEU:HD12	2.27	0.54
1:A:764:PHE:HB3	1:A:780:LEU:O	2.08	0.54
1:C:34:ALA:HB3	1:C:36:TRP:CE3	2.42	0.54
1:D:34:ALA:HB3	1:D:36:TRP:CE3	2.42	0.54
1:C:417:THR:O	1:C:417:THR:HG22	2.07	0.54
1:A:7:LEU:CD1	1:A:74:LEU:HD11	2.36	0.54
1:B:14:ARG:HD2	1:B:17:GLU:HG3	1.78	0.54
1:A:486:TYR:CZ	1:A:488:GLY:HA3	2.42	0.54
1:B:486:TYR:CZ	1:B:488:GLY:HA3	2.42	0.54
1:D:458:LEU:HD11	1:D:472:TYR:HA	1.89	0.54
1:C:486:TYR:CZ	1:C:488:GLY:HA3	2.42	0.54
1:A:706:THR:CG2	1:A:708:TRP:CD1	2.91	0.54
1:A:706:THR:HG22	1:A:707:ALA:H	1.70	0.54
1:B:706:THR:CG2	1:B:708:TRP:CD1	2.91	0.54
1:C:784:PHE:HE2	1:C:870:VAL:HG11	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:648:ASP:OD1	1:D:649:ASN:N	2.39	0.54
1:C:648:ASP:OD1	1:C:649:ASN:N	2.39	0.54
1:B:824:GLN:HE21	1:B:825:CYS:H	1.48	0.54
1:D:417:THR:HG22	1:D:417:THR:O	2.07	0.54
1:D:52:ARG:HB2	1:D:133:TRP:HH2	1.72	0.54
1:C:52:ARG:HB2	1:C:133:TRP:HH2	1.72	0.54
1:D:569:ASP:HB3	1:D:604:ASN:O	2.07	0.54
1:B:569:ASP:HB3	1:B:604:ASN:O	2.07	0.54
1:D:608:PHE:HB2	1:D:612:THR:HB	1.88	0.54
1:A:719:GLN:OE1	1:A:914:CYS:CA	2.55	0.54
1:B:719:GLN:OE1	1:B:914:CYS:CA	2.55	0.54
1:D:486:TYR:CZ	1:D:488:GLY:HA3	2.43	0.54
1:C:455:ILE:HG22	1:C:456:TRP:N	2.22	0.54
1:C:963:SER:HB3	1:C:983:TRP:NE1	2.22	0.54
1:B:1009:LEU:CB	1:B:1014:TYR:OH	2.55	0.54
1:C:513:PRO:O	1:C:514:ALA:HB3	2.07	0.54
1:B:36:TRP:HZ2	1:B:327:ALA:HB3	1.71	0.54
1:A:36:TRP:HZ2	1:A:327:ALA:HB3	1.71	0.54
1:B:100:TYR:OH	1:B:602:CYS:CB	2.55	0.54
1:D:197:LEU:HD23	1:D:432:TRP:CZ3	2.43	0.54
1:A:14:ARG:HD2	1:A:17:GLU:HG3	1.78	0.54
1:B:60:PHE:CD1	1:B:123:TYR:CZ	2.95	0.54
1:A:316:HIS:CA	1:A:322:LEU:HA	2.36	0.54
1:B:316:HIS:CA	1:B:322:LEU:HA	2.36	0.54
1:B:891:VAL:HG13	1:B:961:ARG:NH2	2.04	0.54
1:D:963:SER:HB3	1:D:983:TRP:NE1	2.22	0.54
1:A:376:ILE:HG12	1:A:398:TRP:CH2	2.42	0.54
1:B:950:GLN:HG2	1:B:952:ARG:NH2	2.21	0.54
1:B:784:PHE:HE2	1:B:870:VAL:HG11	1.72	0.54
1:A:1009:LEU:CB	1:A:1014:TYR:OH	2.55	0.54
1:A:784:PHE:HE2	1:A:870:VAL:HG11	1.72	0.54
1:C:178:ARG:H	1:C:182:ASN:ND2	2.04	0.54
1:D:178:ARG:H	1:D:182:ASN:ND2	2.04	0.54
1:D:779:PRO:HG2	1:D:781:ARG:HH11	1.69	0.54
1:A:766:SER:O	1:A:776:LEU:CD1	2.45	0.54
1:B:360:HIS:O	1:B:364:GLY:CA	2.56	0.54
1:A:360:HIS:O	1:A:364:GLY:CA	2.56	0.54
1:B:222:ILE:HA	1:B:246:MET:HA	1.89	0.54
1:B:222:ILE:HG21	1:B:244:VAL:CG1	2.38	0.54
1:A:222:ILE:HA	1:A:246:MET:HA	1.89	0.54
1:A:100:TYR:OH	1:A:602:CYS:CB	2.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:724:GLU:OE1	1:D:873:ALA:HB1	2.08	0.54
1:A:873:ALA:CA	1:B:724:GLU:OE1	2.56	0.54
1:C:197:LEU:HD23	1:C:432:TRP:CZ3	2.43	0.54
1:A:60:PHE:CD1	1:A:123:TYR:CZ	2.95	0.54
1:B:768:MET:HE1	1:B:1020:TRP:CD2	2.42	0.54
1:D:16:TRP:O	1:D:193:ASP:N	2.40	0.54
1:B:16:TRP:O	1:B:193:ASP:N	2.40	0.54
1:A:16:TRP:O	1:A:193:ASP:N	2.40	0.54
1:D:601:PHE:HZ	1:D:998:SER:CB	2.20	0.54
1:C:569:ASP:HB3	1:C:604:ASN:O	2.07	0.54
1:C:608:PHE:HB2	1:C:612:THR:HB	1.88	0.54
1:C:694:LEU:CB	1:C:722:LEU:CB	2.83	0.54
1:D:455:ILE:HG22	1:D:456:TRP:N	2.23	0.54
1:A:950:GLN:HG2	1:A:952:ARG:NH2	2.21	0.54
1:A:399:TYR:HE1	1:A:446:ARG:NH1	1.98	0.54
1:C:82:ASP:N	1:C:82:ASP:OD1	2.41	0.54
1:D:82:ASP:N	1:D:82:ASP:OD1	2.41	0.54
1:C:652:LEU:CD1	1:C:698:VAL:HG13	2.33	0.54
1:A:222:ILE:HG21	1:A:244:VAL:CG1	2.38	0.54
1:C:873:ALA:HB1	1:D:724:GLU:OE1	2.08	0.54
1:C:691:ALA:HA	1:C:725:ASN:ND2	2.10	0.54
1:A:724:GLU:OE1	1:B:873:ALA:CA	2.56	0.54
1:C:14:ARG:HD3	1:C:17:GLU:CB	2.37	0.54
1:A:358:GLU:CB	1:A:367:MET:HE3	2.26	0.54
1:A:768:MET:HE3	1:A:1020:TRP:CD2	2.42	0.54
1:B:142:ILE:HG23	1:B:170:GLU:HG3	1.89	0.54
1:B:63:PHE:HE2	1:B:70:PRO:CD	2.18	0.54
1:A:343:LEU:CD2	1:A:347:LYS:CA	2.86	0.54
1:B:376:ILE:HG12	1:B:398:TRP:CH2	2.42	0.54
1:D:160:GLY:HA3	1:D:171:PHE:CD2	2.43	0.54
1:C:1009:LEU:CB	1:C:1014:TYR:OH	2.55	0.54
1:B:256:VAL:HG22	1:B:315:LEU:CD1	2.38	0.54
1:B:33:PHE:CD2	1:B:217:LYS:NZ	2.76	0.54
1:D:14:ARG:HD3	1:D:17:GLU:CB	2.37	0.54
1:A:142:ILE:HG23	1:A:170:GLU:HG3	1.89	0.54
1:C:601:PHE:HZ	1:C:998:SER:CB	2.20	0.54
1:D:407:LEU:HD13	1:D:407:LEU:N	2.23	0.54
1:C:407:LEU:N	1:C:407:LEU:HD13	2.23	0.54
1:B:343:LEU:CD2	1:B:347:LYS:CA	2.86	0.54
1:A:160:GLY:HA3	1:A:171:PHE:CD2	2.43	0.54
1:B:160:GLY:HA3	1:B:171:PHE:CD2	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:160:GLY:HA3	1:C:171:PHE:CD2	2.43	0.54
1:D:1009:LEU:CB	1:D:1014:TYR:OH	2.55	0.54
1:D:910:LEU:HD12	1:D:910:LEU:C	2.27	0.54
1:A:256:VAL:HG22	1:A:315:LEU:CD1	2.38	0.54
1:A:33:PHE:CD2	1:A:217:LYS:NZ	2.76	0.54
1:A:417:THR:HG22	1:A:417:THR:O	2.07	0.54
1:C:16:TRP:O	1:C:193:ASP:N	2.40	0.54
1:A:489:GLY:HA3	1:A:493:THR:CG2	2.38	0.54
1:D:694:LEU:CB	1:D:722:LEU:CB	2.83	0.54
1:B:52:ARG:HB2	1:B:133:TRP:HH2	1.72	0.54
1:A:963:SER:HB3	1:A:983:TRP:NE1	2.22	0.54
1:D:706:THR:HG22	1:D:707:ALA:H	1.71	0.54
1:A:63:PHE:HE2	1:A:70:PRO:CD	2.18	0.54
1:D:944:LEU:HD12	1:D:944:LEU:C	2.25	0.54
1:C:779:PRO:HG2	1:C:781:ARG:HH11	1.69	0.54
1:D:764:PHE:HB3	1:D:780:LEU:O	2.07	0.54
1:C:360:HIS:O	1:C:364:GLY:CA	2.56	0.54
1:D:652:LEU:CD1	1:D:698:VAL:HG13	2.33	0.54
1:C:652:LEU:CD1	1:C:698:VAL:CG1	2.69	0.54
1:C:100:TYR:OH	1:C:602:CYS:CB	2.55	0.54
1:D:100:TYR:OH	1:D:602:CYS:CB	2.55	0.54
1:C:693:GLN:HE22	1:C:721:ARG:CG	2.09	0.54
1:D:91:GLN:NE2	1:D:96:ASP:HB3	1.96	0.54
1:A:105:TYR:OH	1:A:417:THR:HG23	2.08	0.54
1:B:105:TYR:OH	1:B:417:THR:HG23	2.08	0.54
1:D:788:PRO:CG	1:D:793:ILE:HD11	2.38	0.54
1:A:608:PHE:HB2	1:A:612:THR:HB	1.88	0.54
1:D:887:GLN:NE2	1:D:980:GLU:O	2.41	0.54
1:C:887:GLN:NE2	1:C:980:GLU:O	2.41	0.54
1:B:929:TYR:HB3	1:B:931:PHE:O	2.07	0.54
1:D:343:LEU:CD2	1:D:347:LYS:CA	2.86	0.54
1:D:706:THR:CG2	1:D:708:TRP:CD1	2.91	0.54
1:C:343:LEU:CD2	1:C:347:LYS:CA	2.86	0.54
1:C:910:LEU:HD12	1:C:910:LEU:C	2.27	0.54
1:C:764:PHE:HB3	1:C:780:LEU:O	2.08	0.54
1:C:828:ASP:CG	1:D:830:LEU:HD22	2.27	0.54
1:B:766:SER:O	1:B:776:LEU:CD1	2.45	0.54
1:D:360:HIS:O	1:D:364:GLY:CA	2.56	0.54
1:C:222:ILE:HA	1:C:246:MET:HA	1.89	0.54
1:C:33:PHE:CZ	1:C:217:LYS:NZ	2.76	0.54
1:D:33:PHE:CZ	1:D:217:LYS:NZ	2.76	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:691:ALA:HA	1:B:725:ASN:ND2	2.10	0.54
1:D:59:ARG:NH2	1:D:81:ALA:O	2.41	0.54
1:C:59:ARG:NH2	1:C:81:ALA:O	2.41	0.54
1:B:205:MET:HE2	1:B:365:GLN:CG	2.29	0.54
1:B:417:THR:HG22	1:B:417:THR:O	2.07	0.54
1:B:489:GLY:HA3	1:B:493:THR:CG2	2.38	0.54
1:C:656:VAL:CG2	1:C:696:LEU:HD13	2.38	0.54
1:B:297:ASN:N	1:B:298:PRO:HD3	2.22	0.54
1:A:52:ARG:HB2	1:A:133:TRP:HH2	1.72	0.54
1:B:963:SER:HB3	1:B:983:TRP:NE1	2.22	0.54
1:C:706:THR:HG22	1:C:707:ALA:H	1.70	0.54
1:B:399:TYR:HE1	1:B:446:ARG:NH1	1.98	0.54
1:A:1015:HIS:CD2	1:A:1016:TYR:N	2.75	0.54
1:D:33:PHE:CD2	1:D:217:LYS:NZ	2.76	0.53
1:C:636:ILE:HG23	1:C:680:ILE:HB	1.90	0.53
1:B:657:ALA:CB	1:B:661:LYS:C	2.72	0.53
1:D:73:TRP:HE1	1:D:183:ARG:HH22	1.55	0.53
1:A:316:HIS:HB3	1:A:322:LEU:HB3	1.90	0.53
1:B:316:HIS:HB3	1:B:322:LEU:HB3	1.90	0.53
1:D:783:GLN:NE2	1:D:881:ARG:CD	2.71	0.53
1:B:407:LEU:CD1	1:B:407:LEU:N	2.71	0.53
1:B:608:PHE:HB2	1:B:612:THR:HB	1.88	0.53
1:A:455:ILE:HG22	1:A:456:TRP:N	2.22	0.53
1:A:458:LEU:HD11	1:A:472:TYR:CA	2.39	0.53
1:B:458:LEU:HD11	1:B:472:TYR:CA	2.39	0.53
1:D:656:VAL:CG2	1:D:696:LEU:HD13	2.38	0.53
1:A:297:ASN:N	1:A:298:PRO:HD3	2.22	0.53
1:A:887:GLN:NE2	1:A:980:GLU:O	2.41	0.53
1:B:887:GLN:NE2	1:B:980:GLU:O	2.41	0.53
1:A:929:TYR:HB3	1:A:931:PHE:O	2.07	0.53
1:C:706:THR:CG2	1:C:708:TRP:CD1	2.91	0.53
1:C:66:PRO:O	1:C:69:VAL:HG22	2.08	0.53
1:C:944:LEU:C	1:C:944:LEU:HD12	2.25	0.53
1:C:830:LEU:HD22	1:D:828:ASP:CG	2.27	0.53
1:C:33:PHE:CD2	1:C:217:LYS:NZ	2.76	0.53
1:D:636:ILE:HG23	1:D:680:ILE:HB	1.90	0.53
1:D:222:ILE:HA	1:D:246:MET:HA	1.89	0.53
1:D:823:LEU:HD12	1:D:839:ALA:HB3	1.80	0.53
1:D:693:GLN:HE22	1:D:721:ARG:CG	2.09	0.53
1:C:91:GLN:NE2	1:C:96:ASP:HB3	1.97	0.53
1:C:768:MET:SD	1:C:1020:TRP:HZ3	2.20	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:768:MET:SD	1:D:1020:TRP:HZ3	2.20	0.53
1:D:534:ILE:CG1	1:D:563:GLN:HB2	2.32	0.53
1:D:448:ARG:O	1:D:482:ARG:NH2	2.42	0.53
1:C:448:ARG:O	1:C:482:ARG:NH2	2.42	0.53
1:C:498:ILE:HG22	1:C:532:PRO:CG	2.29	0.53
1:D:66:PRO:O	1:D:69:VAL:HG22	2.07	0.53
1:C:929:TYR:HB3	1:C:931:PHE:O	2.07	0.53
1:B:44:THR:O	1:B:45:ASP:HB3	2.08	0.53
1:B:771:GLY:HA3	1:B:772:ASP:CB	2.29	0.53
1:C:1018:LEU:N	1:C:1018:LEU:HD23	2.23	0.53
1:D:1018:LEU:N	1:D:1018:LEU:HD23	2.23	0.53
1:A:1013:ARG:HB2	1:A:1013:ARG:CZ	2.36	0.53
1:C:823:LEU:HD12	1:C:839:ALA:HB3	1.80	0.53
1:A:970:THR:OG1	1:A:976:LEU:HD23	2.05	0.53
1:A:500:CYS:HB2	1:A:536:CYS:HG	1.72	0.53
1:C:73:TRP:HE1	1:C:183:ARG:HH22	1.55	0.53
1:C:783:GLN:NE2	1:C:881:ARG:CD	2.72	0.53
1:A:407:LEU:N	1:A:407:LEU:CD1	2.71	0.53
1:B:656:VAL:CG2	1:B:696:LEU:HD13	2.39	0.53
1:B:455:ILE:HG22	1:B:456:TRP:N	2.22	0.53
1:A:66:PRO:O	1:A:69:VAL:HG22	2.08	0.53
1:D:929:TYR:HB3	1:D:931:PHE:O	2.07	0.53
1:C:44:THR:O	1:C:45:ASP:HB3	2.08	0.53
1:C:906:TYR:CG	1:C:993:ILE:HG21	2.44	0.53
1:D:906:TYR:CG	1:D:993:ILE:HG21	2.44	0.53
1:B:765:LEU:O	1:B:765:LEU:CD1	2.47	0.53
1:D:652:LEU:CD1	1:D:698:VAL:CG1	2.69	0.53
1:B:970:THR:OG1	1:B:976:LEU:HD23	2.05	0.53
1:A:691:ALA:HA	1:A:725:ASN:ND2	2.10	0.53
1:C:788:PRO:CG	1:C:793:ILE:HD11	2.38	0.53
1:A:407:LEU:N	1:A:407:LEU:HD13	2.23	0.53
1:B:407:LEU:HD13	1:B:407:LEU:N	2.23	0.53
1:A:656:VAL:CG2	1:A:696:LEU:HD13	2.38	0.53
1:A:548:GLY:N	1:A:908:ASP:CG	2.61	0.53
1:A:719:GLN:HE22	1:A:915:PHE:H	1.55	0.53
1:B:719:GLN:HE22	1:B:915:PHE:HB3	1.73	0.53
1:D:489:GLY:HA3	1:D:493:THR:CG2	2.38	0.53
1:B:66:PRO:O	1:B:69:VAL:HG22	2.07	0.53
1:D:317:THR:C	1:D:320:GLY:HA3	2.29	0.53
1:D:44:THR:O	1:D:45:ASP:HB3	2.08	0.53
1:A:44:THR:O	1:A:45:ASP:HB3	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1013:ARG:CZ	1:B:1013:ARG:HB2	2.36	0.53
1:A:765:LEU:O	1:A:765:LEU:CD1	2.47	0.53
1:D:654:TRP:HB3	1:D:698:VAL:HG22	1.91	0.53
1:A:241:GLU:HA	1:A:291:LEU:O	2.08	0.53
1:B:241:GLU:HA	1:B:291:LEU:O	2.08	0.53
1:B:651:LEU:HG	1:B:703:PRO:HG2	1.85	0.53
1:C:489:GLY:HA3	1:C:493:THR:CG2	2.38	0.53
1:B:622:HIS:CD2	1:B:911:THR:HG22	2.44	0.53
1:C:317:THR:C	1:C:320:GLY:HA3	2.29	0.53
1:A:622:HIS:CD2	1:A:911:THR:HG22	2.44	0.53
1:A:771:GLY:HA3	1:A:772:ASP:CB	2.29	0.53
1:A:770:ILE:CG2	1:A:773:LYS:HB2	2.27	0.53
1:C:654:TRP:HB3	1:C:698:VAL:HG22	1.91	0.53
1:A:33:PHE:CA	1:A:326:GLU:OE2	2.57	0.53
1:A:657:ALA:CB	1:A:661:LYS:C	2.72	0.53
1:B:59:ARG:NH2	1:B:81:ALA:O	2.41	0.53
1:B:358:GLU:CB	1:B:367:MET:HE2	2.31	0.53
1:D:909:ARG:O	1:D:909:ARG:HG2	2.08	0.53
1:A:788:PRO:CG	1:A:793:ILE:HD11	2.38	0.53
1:D:548:GLY:N	1:D:908:ASP:CG	2.61	0.53
1:B:548:GLY:N	1:B:908:ASP:CG	2.61	0.53
1:A:719:GLN:HE22	1:A:915:PHE:HB3	1.73	0.53
1:B:719:GLN:HE22	1:B:915:PHE:H	1.55	0.53
1:D:498:ILE:HG22	1:D:532:PRO:CG	2.29	0.53
1:C:458:LEU:HD11	1:C:472:TYR:CA	2.38	0.53
1:D:706:THR:HG22	1:D:708:TRP:CD1	2.44	0.53
1:C:706:THR:HG22	1:C:708:TRP:CD1	2.44	0.53
1:B:343:LEU:CD2	1:B:348:PRO:N	2.72	0.53
1:C:816:TYR:HE2	1:C:968:MET:HE3	1.68	0.53
1:B:753:ASN:OD1	1:B:754:LYS:N	2.42	0.53
1:B:830:LEU:HB2	1:B:833:ALA:C	2.28	0.53
1:B:33:PHE:CA	1:B:326:GLU:OE2	2.57	0.53
1:A:873:ALA:HB1	1:B:724:GLU:OE1	2.08	0.53
1:B:230:ARG:NH1	1:B:241:GLU:CD	2.51	0.53
1:A:724:GLU:OE1	1:B:873:ALA:HB1	2.08	0.53
1:A:651:LEU:HG	1:A:703:PRO:HG2	1.85	0.53
1:B:197:LEU:HD23	1:B:432:TRP:CZ3	2.43	0.53
1:C:909:ARG:O	1:C:909:ARG:HG2	2.08	0.53
1:C:548:GLY:N	1:C:908:ASP:CG	2.61	0.53
1:A:719:GLN:NE2	1:A:915:PHE:H	2.07	0.53
1:B:719:GLN:NE2	1:B:915:PHE:H	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:458:LEU:HD11	1:D:472:TYR:CA	2.39	0.53
1:A:343:LEU:CD2	1:A:348:PRO:N	2.72	0.53
1:B:906:TYR:CG	1:B:993:ILE:HG21	2.44	0.53
1:C:786:ARG:HD3	1:C:880:ALA:HB3	1.91	0.53
1:A:753:ASN:OD1	1:A:754:LYS:N	2.42	0.53
1:D:830:LEU:HB2	1:D:833:ALA:C	2.28	0.53
1:D:222:ILE:HG21	1:D:244:VAL:CG1	2.38	0.53
1:A:33:PHE:CZ	1:A:217:LYS:NZ	2.76	0.53
1:A:197:LEU:HD23	1:A:432:TRP:CZ3	2.43	0.53
1:A:59:ARG:NH2	1:A:81:ALA:O	2.41	0.53
1:B:788:PRO:CG	1:B:793:ILE:HD11	2.38	0.53
1:C:719:GLN:HE22	1:C:915:PHE:HB3	1.73	0.53
1:D:241:GLU:HA	1:D:291:LEU:O	2.08	0.53
1:D:3:ILE:CG2	1:D:9:VAL:CG2	2.72	0.53
1:A:906:TYR:CG	1:A:993:ILE:HG21	2.44	0.53
1:D:786:ARG:HD3	1:D:880:ALA:HB3	1.91	0.53
1:A:1018:LEU:HD23	1:A:1018:LEU:N	2.23	0.53
1:A:830:LEU:HB2	1:A:833:ALA:C	2.28	0.53
1:A:824:GLN:NE2	1:A:825:CYS:O	2.33	0.53
1:C:222:ILE:HG21	1:C:244:VAL:CG1	2.38	0.53
1:D:217:LYS:HD3	1:D:324:GLU:OE1	2.09	0.53
1:A:230:ARG:NH1	1:A:241:GLU:CD	2.51	0.53
1:A:7:LEU:HD12	1:A:74:LEU:HD12	1.90	0.53
1:B:7:LEU:HD12	1:B:74:LEU:HD12	1.90	0.53
1:C:946:TYR:HH	1:C:982:THR:HG21	1.74	0.53
1:D:946:TYR:HH	1:D:982:THR:HG21	1.74	0.53
1:C:407:LEU:N	1:C:407:LEU:CD1	2.71	0.53
1:D:719:GLN:HE22	1:D:915:PHE:HB3	1.73	0.53
1:D:258:VAL:N	1:D:270:GLY:O	2.31	0.53
1:C:622:HIS:CD2	1:C:911:THR:HG22	2.44	0.53
1:A:825:CYS:O	1:A:826:THR:CG2	2.57	0.53
1:C:217:LYS:HD3	1:C:324:GLU:OE1	2.09	0.53
1:B:33:PHE:CZ	1:B:217:LYS:NZ	2.76	0.53
1:A:256:VAL:CG2	1:A:315:LEU:HD13	2.35	0.53
1:D:390:SER:OG	1:D:391:HIS:HE1	1.87	0.53
1:D:572:ASP:OD2	1:D:603:MET:CE	2.57	0.53
1:A:92:MET:CA	1:A:92:MET:CE	2.86	0.53
1:B:73:TRP:HE1	1:B:183:ARG:HH22	1.55	0.53
1:D:407:LEU:CD1	1:D:407:LEU:N	2.71	0.53
1:A:608:PHE:O	1:A:611:ARG:HB3	2.05	0.53
1:A:448:ARG:O	1:A:482:ARG:NH2	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:448:ARG:O	1:B:482:ARG:NH2	2.42	0.53
1:C:241:GLU:HA	1:C:291:LEU:O	2.08	0.53
1:C:3:ILE:CG2	1:C:9:VAL:CG2	2.72	0.53
1:B:55:ASN:HD21	1:B:211:ASP:CB	2.22	0.53
1:D:622:HIS:CD2	1:D:911:THR:HG22	2.44	0.53
1:B:1018:LEU:HD23	1:B:1018:LEU:N	2.23	0.53
1:A:758:PHE:CE1	1:A:765:LEU:HD22	2.40	0.52
1:B:758:PHE:CE1	1:B:765:LEU:HD22	2.40	0.52
1:B:825:CYS:O	1:B:826:THR:CG2	2.57	0.52
1:B:770:ILE:CG2	1:B:773:LYS:HB2	2.27	0.52
1:B:970:THR:CG2	1:B:976:LEU:HD21	2.38	0.52
1:A:970:THR:CG2	1:A:976:LEU:HD21	2.38	0.52
1:B:256:VAL:CG2	1:B:315:LEU:HD13	2.35	0.52
1:C:572:ASP:OD2	1:C:603:MET:CE	2.57	0.52
1:B:50:GLN:H	1:B:50:GLN:NE2	2.06	0.52
1:D:316:HIS:HB3	1:D:322:LEU:HB3	1.90	0.52
1:C:719:GLN:NE2	1:C:915:PHE:H	2.07	0.52
1:B:1015:HIS:CD2	1:B:1016:TYR:N	2.75	0.52
1:A:595:THR:OG1	1:A:596:PRO:HA	2.09	0.52
1:C:128:ASN:OD1	1:C:181:GLU:CA	2.57	0.52
1:D:128:ASN:OD1	1:D:181:GLU:CA	2.57	0.52
1:C:830:LEU:HB2	1:C:833:ALA:C	2.28	0.52
1:B:763:GLY:HA2	1:B:822:LEU:HD21	1.89	0.52
1:B:824:GLN:NE2	1:B:825:CYS:O	2.33	0.52
1:C:33:PHE:CA	1:C:326:GLU:OE2	2.57	0.52
1:C:36:TRP:CZ2	1:C:327:ALA:HB3	2.44	0.52
1:D:55:ASN:HD21	1:D:211:ASP:CB	2.22	0.52
1:D:88:SER:CB	1:D:93:HIS:HE1	2.22	0.52
1:C:88:SER:CB	1:C:93:HIS:HE1	2.22	0.52
1:A:89:ASN:ND2	1:A:365:GLN:CB	2.44	0.52
1:B:92:MET:CA	1:B:92:MET:CE	2.86	0.52
1:A:783:GLN:NE2	1:A:881:ARG:CD	2.71	0.52
1:A:50:GLN:H	1:A:50:GLN:NE2	2.06	0.52
1:C:316:HIS:HB3	1:C:322:LEU:HB3	1.90	0.52
1:B:608:PHE:O	1:B:611:ARG:HB3	2.05	0.52
1:C:612:THR:CG2	1:C:613:PRO:CD	2.87	0.52
1:D:719:GLN:NE2	1:D:915:PHE:H	2.07	0.52
1:C:258:VAL:N	1:C:270:GLY:O	2.30	0.52
1:A:55:ASN:HD21	1:A:211:ASP:CB	2.22	0.52
1:A:317:THR:C	1:A:320:GLY:HA3	2.29	0.52
1:B:906:TYR:HE2	1:B:934:GLU:OE2	1.93	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:906:TYR:HE2	1:A:934:GLU:OE2	1.93	0.52
1:D:302:SER:O	1:D:305:ILE:O	2.28	0.52
1:B:507:ASP:OD2	1:B:551:LYS:HD3	2.09	0.52
1:A:507:ASP:OD2	1:A:551:LYS:HD3	2.09	0.52
1:C:256:VAL:HG22	1:C:315:LEU:CD1	2.38	0.52
1:D:256:VAL:HG22	1:D:315:LEU:CD1	2.38	0.52
1:D:33:PHE:CA	1:D:326:GLU:OE2	2.57	0.52
1:D:36:TRP:CZ2	1:D:327:ALA:HB3	2.44	0.52
1:A:217:LYS:HD3	1:A:324:GLU:OE1	2.09	0.52
1:D:692:GLY:O	1:D:725:ASN:HB3	2.09	0.52
1:C:692:GLY:O	1:C:725:ASN:HB3	2.09	0.52
1:A:73:TRP:HE1	1:A:183:ARG:HH22	1.55	0.52
1:B:783:GLN:NE2	1:B:881:ARG:CD	2.72	0.52
1:B:909:ARG:HG2	1:B:909:ARG:O	2.08	0.52
1:A:909:ARG:HG2	1:A:909:ARG:O	2.08	0.52
1:C:50:GLN:NE2	1:C:50:GLN:H	2.06	0.52
1:D:612:THR:CG2	1:D:613:PRO:CD	2.87	0.52
1:A:237:ARG:HA	1:A:296:GLU:HA	1.91	0.52
1:B:706:THR:HG22	1:B:708:TRP:CD1	2.44	0.52
1:B:317:THR:C	1:B:320:GLY:HA3	2.29	0.52
1:D:816:TYR:CE2	1:D:968:MET:HE3	2.44	0.52
1:C:816:TYR:CE2	1:C:968:MET:HE3	2.44	0.52
1:C:302:SER:O	1:C:305:ILE:O	2.28	0.52
1:D:145:GLY:N	1:D:210:ARG:CB	2.73	0.52
1:C:345:ASN:HB2	1:C:644:PHE:CZ	2.45	0.52
1:D:345:ASN:HB2	1:D:644:PHE:CZ	2.45	0.52
1:A:36:TRP:CZ2	1:A:327:ALA:HB3	2.44	0.52
1:B:692:GLY:O	1:B:725:ASN:HB3	2.09	0.52
1:A:692:GLY:O	1:A:725:ASN:HB3	2.09	0.52
1:C:390:SER:OG	1:C:391:HIS:HE1	1.87	0.52
1:C:55:ASN:HD21	1:C:211:ASP:CB	2.22	0.52
1:B:996:ASP:H	1:B:1002:SER:CB	2.12	0.52
1:D:50:GLN:NE2	1:D:50:GLN:H	2.06	0.52
1:C:705:ALA:CB	1:C:710:GLU:C	2.78	0.52
1:D:705:ALA:CB	1:D:710:GLU:C	2.78	0.52
1:A:626:PHE:HA	1:A:641:GLU:HB2	1.91	0.52
1:B:237:ARG:HA	1:B:296:GLU:HA	1.91	0.52
1:A:706:THR:HG22	1:A:708:TRP:CD1	2.44	0.52
1:A:63:PHE:HB2	1:A:69:VAL:HG12	1.92	0.52
1:B:63:PHE:HB2	1:B:69:VAL:HG12	1.92	0.52
1:B:319:ASP:N	1:B:320:GLY:CA	2.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:319:ASP:N	1:A:320:GLY:CA	2.73	0.52
1:C:145:GLY:N	1:C:210:ARG:CB	2.73	0.52
1:B:595:THR:OG1	1:B:596:PRO:HA	2.10	0.52
1:D:261:TRP:HA	1:D:266:GLN:HA	1.92	0.52
1:A:763:GLY:HA2	1:A:822:LEU:HD21	1.89	0.52
1:B:217:LYS:HD3	1:B:324:GLU:OE1	2.09	0.52
1:B:36:TRP:CZ2	1:B:327:ALA:HB3	2.44	0.52
1:B:258:VAL:N	1:B:270:GLY:O	2.31	0.52
1:C:89:ASN:ND2	1:C:365:GLN:CB	2.44	0.52
1:A:88:SER:CB	1:A:93:HIS:HE1	2.22	0.52
1:B:88:SER:CB	1:B:93:HIS:HE1	2.22	0.52
1:C:352:ARG:CD	1:C:352:ARG:N	2.73	0.52
1:C:293:LEU:CD1	1:C:293:LEU:N	2.73	0.52
1:A:474:TRP:CZ3	1:A:478:VAL:CG2	2.87	0.52
1:D:377:LEU:O	1:D:381:GLN:HB2	2.10	0.52
1:C:261:TRP:HA	1:C:266:GLN:HA	1.92	0.52
1:C:758:PHE:CE1	1:C:765:LEU:HD22	2.40	0.52
1:A:636:ILE:HG23	1:A:680:ILE:HB	1.90	0.52
1:D:105:TYR:OH	1:D:417:THR:HG23	2.08	0.52
1:D:603:MET:SD	1:D:930:VAL:HG11	2.50	0.52
1:C:105:TYR:OH	1:C:417:THR:HG23	2.08	0.52
1:C:89:ASN:HD22	1:C:205:MET:HE3	1.75	0.52
1:C:603:MET:SD	1:C:930:VAL:HG11	2.50	0.52
1:A:391:HIS:N	1:A:391:HIS:HD1	2.08	0.52
1:B:391:HIS:HD1	1:B:391:HIS:N	2.08	0.52
1:D:352:ARG:CD	1:D:352:ARG:N	2.73	0.52
1:B:626:PHE:HA	1:B:641:GLU:HB2	1.91	0.52
1:B:148:SER:OG	1:B:192:SER:CB	2.42	0.52
1:B:474:TRP:CZ3	1:B:478:VAL:CG2	2.87	0.52
1:C:343:LEU:CD2	1:C:348:PRO:N	2.72	0.52
1:C:377:LEU:O	1:C:381:GLN:HB2	2.10	0.52
1:D:63:PHE:HB2	1:D:69:VAL:HG12	1.92	0.52
1:C:63:PHE:HB2	1:C:69:VAL:HG12	1.92	0.52
1:C:507:ASP:OD2	1:C:551:LYS:HD3	2.09	0.52
1:B:345:ASN:HB2	1:B:644:PHE:CZ	2.45	0.52
1:D:507:ASP:OD2	1:D:551:LYS:HD3	2.09	0.52
1:B:636:ILE:HG23	1:B:680:ILE:HB	1.90	0.52
1:B:654:TRP:HB3	1:B:698:VAL:HG22	1.91	0.52
1:D:7:LEU:CD1	1:D:74:LEU:HD11	2.36	0.52
1:C:89:ASN:ND2	1:C:365:GLN:H	2.08	0.52
1:A:383:ASN:HB3	1:A:624:GLN:HB3	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:383:ASN:HB3	1:C:624:GLN:HB3	1.90	0.52
1:D:383:ASN:HB3	1:D:624:GLN:HB3	1.90	0.52
1:C:237:ARG:HA	1:C:296:GLU:HA	1.91	0.52
1:A:147:ASN:O	1:A:188:VAL:CG1	2.58	0.52
1:D:293:LEU:N	1:D:293:LEU:CD1	2.73	0.52
1:D:343:LEU:CD2	1:D:348:PRO:N	2.72	0.52
1:A:302:SER:O	1:A:305:ILE:O	2.28	0.52
1:A:345:ASN:HB2	1:A:644:PHE:CZ	2.45	0.52
1:B:657:ALA:HB1	1:B:662:PRO:N	2.25	0.52
1:D:89:ASN:ND2	1:D:365:GLN:H	2.08	0.52
1:B:89:ASN:ND2	1:B:365:GLN:CB	2.44	0.52
1:D:237:ARG:HA	1:D:296:GLU:HA	1.91	0.52
1:B:147:ASN:O	1:B:188:VAL:CG1	2.58	0.52
1:C:147:ASN:O	1:C:188:VAL:CG1	2.58	0.52
1:D:147:ASN:O	1:D:188:VAL:CG1	2.58	0.52
1:C:509:ASP:HB2	1:C:517:LYS:O	2.10	0.52
1:A:377:LEU:O	1:A:381:GLN:HB2	2.10	0.52
1:A:653:HIS:HE1	1:A:655:MET:HB3	1.75	0.52
1:B:302:SER:O	1:B:305:ILE:O	2.28	0.52
1:B:145:GLY:N	1:B:210:ARG:CB	2.73	0.52
1:A:145:GLY:N	1:A:210:ARG:CB	2.73	0.52
1:C:753:ASN:OD1	1:C:754:LYS:N	2.42	0.52
1:D:178:ARG:NH1	1:D:178:ARG:CG	2.73	0.52
1:D:758:PHE:CE1	1:D:765:LEU:HD22	2.40	0.52
1:A:654:TRP:HB3	1:A:698:VAL:HG22	1.91	0.52
1:D:657:ALA:HB1	1:D:662:PRO:N	2.25	0.52
1:C:657:ALA:HB1	1:C:662:PRO:N	2.25	0.52
1:A:657:ALA:HB1	1:A:662:PRO:N	2.25	0.52
1:C:7:LEU:CD1	1:C:74:LEU:HD11	2.36	0.52
1:B:125:LEU:O	1:B:184:LEU:N	2.43	0.52
1:B:383:ASN:HB3	1:B:624:GLN:HB3	1.90	0.52
1:A:430:PRO:CG	1:D:445:GLN:HE22	2.21	0.52
1:D:509:ASP:HB2	1:D:517:LYS:O	2.10	0.52
1:B:377:LEU:O	1:B:381:GLN:HB2	2.10	0.52
1:D:753:ASN:OD1	1:D:754:LYS:N	2.42	0.52
1:A:82:ASP:N	1:A:82:ASP:OD1	2.41	0.52
1:C:178:ARG:CG	1:C:178:ARG:NH1	2.73	0.52
1:D:970:THR:CG2	1:D:976:LEU:HD21	2.38	0.52
1:D:7:LEU:CD1	1:D:7:LEU:N	2.73	0.52
1:C:105:TYR:HD1	1:C:109:VAL:HG22	1.75	0.52
1:C:7:LEU:N	1:C:7:LEU:CD1	2.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:125:LEU:O	1:A:184:LEU:N	2.43	0.52
1:B:17:GLU:OE2	1:B:114:VAL:HG23	2.08	0.52
1:B:420:MET:O	1:B:423:MET:CA	2.58	0.52
1:A:996:ASP:H	1:A:1002:SER:CB	2.12	0.52
1:B:430:PRO:CG	1:C:445:GLN:HE22	2.21	0.52
1:D:458:LEU:HD21	1:D:475:ILE:CD1	2.40	0.52
1:C:458:LEU:HD21	1:C:475:ILE:CD1	2.40	0.52
1:C:147:ASN:O	1:C:188:VAL:HG12	2.10	0.52
1:D:147:ASN:O	1:D:188:VAL:HG12	2.10	0.52
1:B:653:HIS:HE1	1:B:655:MET:HB3	1.75	0.52
1:D:806:TRP:HZ2	1:D:1008:GLN:OE1	1.93	0.52
1:B:1005:ALA:HA	1:B:1008:GLN:HE21	1.75	0.52
1:C:806:TRP:HZ2	1:C:1008:GLN:OE1	1.93	0.52
1:D:105:TYR:HD1	1:D:109:VAL:HG22	1.75	0.51
1:D:89:ASN:ND2	1:D:365:GLN:CB	2.44	0.51
1:A:420:MET:O	1:A:423:MET:CA	2.58	0.51
1:D:792:ASP:OD1	1:D:793:ILE:N	2.44	0.51
1:C:792:ASP:OD1	1:C:793:ILE:N	2.44	0.51
1:A:797:GLU:C	1:A:801:ILE:HD13	2.20	0.51
1:A:615:PRO:CG	1:A:927:THR:HG21	2.41	0.51
1:B:705:ALA:CB	1:B:710:GLU:C	2.78	0.51
1:A:705:ALA:CB	1:A:710:GLU:C	2.78	0.51
1:B:908:ASP:OD1	1:B:1007:PHE:CE1	2.53	0.51
1:D:440:VAL:CG2	1:D:471:LEU:HD11	2.38	0.51
1:C:473:ARG:CA	1:C:473:ARG:NE	2.73	0.51
1:A:1005:ALA:HA	1:A:1008:GLN:HE21	1.75	0.51
1:B:82:ASP:OD1	1:B:82:ASP:N	2.41	0.51
1:D:763:GLY:N	1:D:822:LEU:HD21	2.25	0.51
1:C:89:ASN:O	1:C:92:MET:HB2	2.11	0.51
1:A:202:MET:CE	1:A:202:MET:N	2.73	0.51
1:A:7:LEU:CD1	1:A:7:LEU:N	2.73	0.51
1:B:202:MET:N	1:B:202:MET:CE	2.73	0.51
1:B:497:ASP:O	1:B:531:ARG:HD2	2.10	0.51
1:A:908:ASP:OD1	1:A:1007:PHE:CE1	2.53	0.51
1:D:478:VAL:HG23	1:D:479:ASP:N	2.25	0.51
1:D:655:MET:HE1	1:D:699:ARG:NH1	2.22	0.51
1:C:1005:ALA:HA	1:C:1008:GLN:HE21	1.75	0.51
1:B:962:TYR:CD1	1:B:962:TYR:N	2.78	0.51
1:C:763:GLY:N	1:C:822:LEU:HD21	2.25	0.51
1:A:763:GLY:N	1:A:822:LEU:HD21	2.25	0.51
1:C:970:THR:CG2	1:C:976:LEU:HD21	2.38	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:251:ARG:H	1:A:254:LEU:HD21	1.76	0.51
1:D:202:MET:N	1:D:202:MET:CE	2.73	0.51
1:D:89:ASN:O	1:D:92:MET:HB2	2.11	0.51
1:C:11:LEU:O	1:C:14:ARG:HA	2.11	0.51
1:A:17:GLU:OE2	1:A:114:VAL:HG23	2.08	0.51
1:A:89:ASN:ND2	1:A:365:GLN:H	2.08	0.51
1:B:572:ASP:OD2	1:B:603:MET:CE	2.57	0.51
1:B:7:LEU:N	1:B:7:LEU:CD1	2.73	0.51
1:A:506:VAL:CG1	1:A:521:LYS:HD2	2.40	0.51
1:C:756:TRP:NE1	1:C:864:MET:CE	2.74	0.51
1:B:615:PRO:CG	1:B:927:THR:HG21	2.41	0.51
1:A:694:LEU:CB	1:A:722:LEU:CB	2.83	0.51
1:A:497:ASP:O	1:A:531:ARG:HD2	2.10	0.51
1:B:352:ARG:CD	1:B:352:ARG:N	2.73	0.51
1:C:440:VAL:CG2	1:C:471:LEU:HD11	2.38	0.51
1:B:506:VAL:CG1	1:B:521:LYS:HD2	2.40	0.51
1:C:478:VAL:HG23	1:C:479:ASP:N	2.25	0.51
1:A:962:TYR:CD1	1:A:962:TYR:N	2.78	0.51
1:B:763:GLY:N	1:B:822:LEU:HD21	2.25	0.51
1:B:251:ARG:H	1:B:254:LEU:HD21	1.76	0.51
1:D:11:LEU:O	1:D:14:ARG:HA	2.11	0.51
1:C:202:MET:N	1:C:202:MET:CE	2.73	0.51
1:A:572:ASP:OD2	1:A:603:MET:CE	2.57	0.51
1:A:603:MET:SD	1:A:930:VAL:HG11	2.50	0.51
1:B:89:ASN:ND2	1:B:365:GLN:H	2.08	0.51
1:D:500:CYS:HB2	1:D:536:CYS:HG	1.70	0.51
1:A:620:ALA:O	1:A:624:GLN:HB2	2.11	0.51
1:B:620:ALA:O	1:B:624:GLN:HB2	2.11	0.51
1:A:458:LEU:HD21	1:A:475:ILE:CD1	2.40	0.51
1:A:352:ARG:N	1:A:352:ARG:CD	2.73	0.51
1:B:516:PRO:CB	1:B:518:TRP:CZ2	2.91	0.51
1:C:506:VAL:CG1	1:C:521:LYS:HD2	2.40	0.51
1:D:439:ARG:CG	1:D:439:ARG:NH1	2.73	0.51
1:D:1005:ALA:HA	1:D:1008:GLN:HE21	1.75	0.51
1:A:128:ASN:OD1	1:A:181:GLU:CA	2.57	0.51
1:B:128:ASN:OD1	1:B:181:GLU:CA	2.57	0.51
1:C:825:CYS:O	1:C:826:THR:CG2	2.57	0.51
1:B:246:MET:HB3	1:B:274:PHE:CE2	2.41	0.51
1:D:657:ALA:CB	1:D:662:PRO:N	2.74	0.51
1:D:59:ARG:NH1	1:D:59:ARG:HG3	2.26	0.51
1:A:91:GLN:OE1	1:A:96:ASP:CB	2.57	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:603:MET:SD	1:B:930:VAL:HG11	2.50	0.51
1:A:509:ASP:HB3	1:A:519:SER:H	1.76	0.51
1:A:516:PRO:CB	1:A:518:TRP:CZ2	2.91	0.51
1:D:749:ILE:N	1:D:749:ILE:CD1	2.73	0.51
1:D:756:TRP:NE1	1:D:864:MET:CE	2.74	0.51
1:B:694:LEU:CB	1:B:722:LEU:CB	2.83	0.51
1:A:409:VAL:O	1:A:453:VAL:HA	2.11	0.51
1:B:458:LEU:HD21	1:B:475:ILE:CD1	2.40	0.51
1:B:509:ASP:HB3	1:B:519:SER:H	1.76	0.51
1:B:509:ASP:HB2	1:B:517:LYS:O	2.10	0.51
1:D:506:VAL:CG1	1:D:521:LYS:HD2	2.40	0.51
1:C:319:ASP:N	1:C:320:GLY:CA	2.73	0.51
1:D:906:TYR:CD2	1:D:993:ILE:HG22	2.45	0.51
1:D:510:GLN:OE1	1:D:510:GLN:N	2.43	0.51
1:D:825:CYS:O	1:D:826:THR:CG2	2.57	0.51
1:C:825:CYS:C	1:C:826:THR:CG2	2.79	0.51
1:C:657:ALA:CB	1:C:662:PRO:N	2.74	0.51
1:C:59:ARG:NH1	1:C:59:ARG:HG3	2.26	0.51
1:A:509:ASP:HB2	1:A:517:LYS:O	2.10	0.51
1:C:769:TRP:CE3	1:C:774:LYS:HA	2.46	0.51
1:B:792:ASP:OD1	1:B:793:ILE:N	2.44	0.51
1:B:797:GLU:C	1:B:801:ILE:HD13	2.20	0.51
1:A:792:ASP:OD1	1:A:793:ILE:N	2.44	0.51
1:A:541:ALA:HB1	1:A:606:LEU:HD12	1.93	0.51
1:C:578:TYR:CE2	1:C:582:GLY:O	2.64	0.51
1:C:354:VAL:HG11	1:C:379:MET:HE2	1.92	0.51
1:D:354:VAL:HG11	1:D:379:MET:HE2	1.92	0.51
1:B:409:VAL:O	1:B:453:VAL:HA	2.11	0.51
1:A:445:GLN:HE22	1:D:430:PRO:CG	2.21	0.51
1:A:474:TRP:HB2	1:D:470:ALA:CB	2.41	0.51
1:D:319:ASP:N	1:D:320:GLY:CA	2.73	0.51
1:C:906:TYR:CD2	1:C:993:ILE:HG22	2.45	0.51
1:C:439:ARG:NH1	1:C:439:ARG:CG	2.73	0.51
1:C:510:GLN:OE1	1:C:510:GLN:N	2.43	0.51
1:D:246:MET:CB	1:D:274:PHE:CZ	2.91	0.51
1:D:825:CYS:C	1:D:826:THR:CG2	2.79	0.51
1:A:246:MET:HB3	1:A:274:PHE:CE2	2.41	0.51
1:A:873:ALA:O	1:A:876:THR:CG2	2.59	0.51
1:B:657:ALA:CB	1:B:662:PRO:N	2.74	0.51
1:A:657:ALA:CB	1:A:662:PRO:N	2.74	0.51
1:B:873:ALA:O	1:B:876:THR:CG2	2.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:91:GLN:CD	1:C:190:ARG:HH22	2.10	0.51
1:A:152:LEU:HD13	1:A:186:VAL:HG22	1.92	0.51
1:B:13:ARG:H	1:B:13:ARG:HD3	1.75	0.51
1:C:749:ILE:CD1	1:C:749:ILE:N	2.73	0.51
1:D:769:TRP:CE3	1:D:774:LYS:HA	2.46	0.51
1:B:541:ALA:HB1	1:B:606:LEU:HD12	1.93	0.51
1:A:946:TYR:OH	1:A:982:THR:HG21	2.10	0.51
1:D:946:TYR:OH	1:D:982:THR:HG21	2.10	0.51
1:D:578:TYR:CE2	1:D:582:GLY:O	2.64	0.51
1:A:578:TYR:CE2	1:A:582:GLY:O	2.64	0.51
1:C:620:ALA:O	1:C:624:GLN:HB2	2.11	0.51
1:D:620:ALA:O	1:D:624:GLN:HB2	2.11	0.51
1:B:631:LEU:CD1	1:B:635:THR:O	2.51	0.51
1:B:510:GLN:N	1:B:510:GLN:OE1	2.43	0.51
1:A:770:ILE:CG2	1:A:773:LYS:CB	2.88	0.51
1:C:823:LEU:CG	1:C:839:ALA:HB3	2.25	0.51
1:C:92:MET:CA	1:C:92:MET:CE	2.86	0.51
1:A:13:ARG:H	1:A:13:ARG:HD3	1.75	0.51
1:B:152:LEU:HD13	1:B:186:VAL:HG22	1.92	0.51
1:B:91:GLN:OE1	1:B:96:ASP:CB	2.57	0.51
1:B:749:ILE:CD1	1:B:749:ILE:N	2.73	0.51
1:D:793:ILE:O	1:D:796:SER:HB3	2.11	0.51
1:C:793:ILE:O	1:C:796:SER:HB3	2.11	0.51
1:B:578:TYR:CE2	1:B:582:GLY:O	2.64	0.51
1:B:445:GLN:HE22	1:C:430:PRO:CG	2.21	0.51
1:C:409:VAL:O	1:C:453:VAL:HA	2.11	0.51
1:B:655:MET:HE1	1:B:699:ARG:NH1	2.24	0.51
1:A:631:LEU:CD1	1:A:635:THR:O	2.51	0.51
1:C:595:THR:OG1	1:C:596:PRO:HA	2.09	0.51
1:A:763:GLY:HA3	1:A:822:LEU:HD21	1.93	0.51
1:B:823:LEU:HD12	1:B:823:LEU:C	2.32	0.51
1:C:251:ARG:H	1:C:254:LEU:HD21	1.76	0.51
1:D:251:ARG:H	1:D:254:LEU:HD21	1.76	0.51
1:A:293:LEU:N	1:A:293:LEU:CD1	2.73	0.51
1:B:293:LEU:CD1	1:B:293:LEU:N	2.73	0.51
1:C:152:LEU:HD13	1:C:186:VAL:HG22	1.92	0.51
1:B:769:TRP:CE3	1:B:774:LYS:HA	2.46	0.51
1:A:749:ILE:N	1:A:749:ILE:CD1	2.73	0.51
1:A:769:TRP:CE3	1:A:774:LYS:HA	2.46	0.51
1:A:756:TRP:NE1	1:A:864:MET:CE	2.74	0.51
1:D:23:GLN:HB2	1:D:161:TYR:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:23:GLN:HB2	1:C:161:TYR:O	2.11	0.51
1:D:615:PRO:CG	1:D:927:THR:HG21	2.41	0.51
1:C:615:PRO:CG	1:C:927:THR:HG21	2.40	0.51
1:B:37:ARG:NH2	1:B:50:GLN:HG2	2.23	0.51
1:B:946:TYR:OH	1:B:982:THR:HG21	2.10	0.51
1:C:946:TYR:OH	1:C:982:THR:HG21	2.10	0.51
1:D:409:VAL:O	1:D:453:VAL:HA	2.11	0.51
1:B:474:TRP:HB2	1:C:470:ALA:CB	2.41	0.51
1:A:870:VAL:HG21	1:A:882:ILE:HG21	1.92	0.51
1:D:595:THR:OG1	1:D:596:PRO:HA	2.10	0.51
1:A:510:GLN:OE1	1:A:510:GLN:N	2.43	0.51
1:B:763:GLY:HA3	1:B:822:LEU:HD21	1.93	0.51
1:A:823:LEU:HD12	1:A:823:LEU:C	2.32	0.51
1:B:770:ILE:CG2	1:B:773:LYS:CB	2.88	0.51
1:A:36:TRP:HE1	1:A:42:ALA:HB2	0.38	0.51
1:D:152:LEU:HD13	1:D:186:VAL:HG22	1.92	0.51
1:D:91:GLN:CD	1:D:190:ARG:HH22	2.10	0.51
1:D:92:MET:CE	1:D:92:MET:CA	2.86	0.51
1:C:91:GLN:OE1	1:C:96:ASP:CB	2.57	0.51
1:B:756:TRP:NE1	1:B:864:MET:CE	2.74	0.51
1:C:376:ILE:CG1	1:C:398:TRP:CZ3	2.94	0.51
1:D:376:ILE:CG1	1:D:398:TRP:CZ3	2.94	0.51
1:A:478:VAL:HG23	1:A:479:ASP:N	2.25	0.51
1:A:706:THR:CG2	1:A:707:ALA:H	2.24	0.51
1:B:706:THR:CG2	1:B:707:ALA:H	2.24	0.51
1:A:372:MET:HE3	1:A:397:LEU:HD23	1.90	0.51
1:B:880:ALA:O	1:B:991:MET:CB	2.59	0.51
1:D:987:ASP:OD1	1:D:989:PHE:N	2.44	0.51
1:B:870:VAL:HG21	1:B:882:ILE:HG21	1.92	0.51
1:A:261:TRP:HA	1:A:266:GLN:HA	1.92	0.51
1:D:251:ARG:NH1	1:D:251:ARG:CG	2.73	0.50
1:B:36:TRP:HE1	1:B:42:ALA:HB2	0.38	0.50
1:C:892:ALA:CB	1:C:946:TYR:CE1	2.66	0.50
1:D:892:ALA:CB	1:D:946:TYR:CE1	2.66	0.50
1:C:608:PHE:HZ	1:C:928:PRO:O	1.94	0.50
1:D:608:PHE:HZ	1:D:928:PRO:O	1.94	0.50
1:D:456:TRP:NE1	1:D:482:ARG:CD	2.70	0.50
1:B:55:ASN:HD22	1:B:211:ASP:CG	2.08	0.50
1:A:55:ASN:HD22	1:A:211:ASP:CG	2.08	0.50
1:A:376:ILE:CG1	1:A:398:TRP:CZ3	2.94	0.50
1:B:376:ILE:CG1	1:B:398:TRP:CZ3	2.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:880:ALA:O	1:A:991:MET:CB	2.59	0.50
1:D:870:VAL:HG21	1:D:882:ILE:HG21	1.92	0.50
1:C:870:VAL:HG21	1:C:882:ILE:HG21	1.92	0.50
1:C:987:ASP:OD1	1:C:989:PHE:N	2.44	0.50
1:A:35:SER:OG	1:A:216:HIS:O	2.18	0.50
1:C:763:GLY:O	1:C:840:HIS:CE1	2.64	0.50
1:C:251:ARG:NH1	1:C:251:ARG:CG	2.73	0.50
1:D:89:ASN:HD22	1:D:205:MET:HE3	1.76	0.50
1:D:91:GLN:OE1	1:D:96:ASP:CB	2.57	0.50
1:C:17:GLU:OE2	1:C:114:VAL:HG23	2.08	0.50
1:A:77:ASP:CB	1:A:183:ARG:HH12	2.24	0.50
1:C:942:ARG:NH2	1:C:942:ARG:CG	2.73	0.50
1:C:456:TRP:NE1	1:C:482:ARG:CD	2.70	0.50
1:B:478:VAL:HG23	1:B:479:ASP:N	2.25	0.50
1:A:369:GLU:HA	1:A:372:MET:CE	2.40	0.50
1:C:653:HIS:HE1	1:C:655:MET:HB3	1.75	0.50
1:B:261:TRP:HA	1:B:266:GLN:HA	1.92	0.50
1:C:433:LEU:CB	1:C:467:ASN:HD22	2.23	0.50
1:D:746:ASP:OD2	1:D:757:GLN:NE2	2.45	0.50
1:D:763:GLY:O	1:D:840:HIS:CE1	2.64	0.50
1:A:763:GLY:O	1:A:840:HIS:CE1	2.64	0.50
1:D:823:LEU:CG	1:D:839:ALA:HB3	2.25	0.50
1:D:17:GLU:OE2	1:D:114:VAL:HG23	2.08	0.50
1:D:125:LEU:O	1:D:184:LEU:N	2.43	0.50
1:A:89:ASN:O	1:A:92:MET:HB2	2.11	0.50
1:D:541:ALA:HB1	1:D:606:LEU:HD12	1.93	0.50
1:A:37:ARG:NH2	1:A:50:GLN:HG2	2.23	0.50
1:B:355:ASN:ND2	1:B:537:GLU:HG2	2.26	0.50
1:C:541:ALA:HB1	1:C:606:LEU:HD12	1.93	0.50
1:D:316:HIS:CA	1:D:322:LEU:HA	2.36	0.50
1:A:608:PHE:HZ	1:A:928:PRO:O	1.94	0.50
1:A:678:GLN:C	1:A:679:LEU:HD23	2.32	0.50
1:B:369:GLU:HA	1:B:372:MET:CE	2.40	0.50
1:D:278:ILE:HG12	1:D:278:ILE:O	2.12	0.50
1:C:278:ILE:HG12	1:C:278:ILE:O	2.12	0.50
1:C:1009:LEU:H	1:C:1009:LEU:HD23	1.74	0.50
1:C:746:ASP:OD2	1:C:757:GLN:NE2	2.45	0.50
1:B:763:GLY:O	1:B:840:HIS:CE1	2.64	0.50
1:D:971:SER:HG	1:D:972:HIS:CE1	2.13	0.50
1:B:36:TRP:HZ2	1:B:327:ALA:CB	2.25	0.50
1:A:36:TRP:HZ2	1:A:327:ALA:CB	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:873:ALA:O	1:D:876:THR:CG2	2.59	0.50
1:D:13:ARG:H	1:D:13:ARG:HD3	1.75	0.50
1:C:13:ARG:HD3	1:C:13:ARG:H	1.75	0.50
1:C:125:LEU:O	1:C:184:LEU:N	2.43	0.50
1:A:91:GLN:CD	1:A:190:ARG:HH22	2.10	0.50
1:B:89:ASN:O	1:B:92:MET:HB2	2.11	0.50
1:B:77:ASP:CB	1:B:183:ARG:HH12	2.24	0.50
1:A:355:ASN:ND2	1:A:537:GLU:HG2	2.26	0.50
1:B:608:PHE:HZ	1:B:928:PRO:O	1.94	0.50
1:C:607:VAL:CG1	1:C:617:LEU:CD1	2.73	0.50
1:D:942:ARG:NH2	1:D:942:ARG:CG	2.73	0.50
1:D:516:PRO:CB	1:D:518:TRP:CZ2	2.91	0.50
1:B:678:GLN:C	1:B:679:LEU:HD23	2.32	0.50
1:B:906:TYR:CD2	1:B:993:ILE:HG22	2.45	0.50
1:C:1011:ALA:HB3	1:C:1014:TYR:CE1	2.47	0.50
1:B:1011:ALA:HB3	1:B:1014:TYR:CE1	2.47	0.50
1:B:987:ASP:OD1	1:B:989:PHE:N	2.44	0.50
1:D:962:TYR:N	1:D:962:TYR:CD1	2.78	0.50
1:D:433:LEU:CB	1:D:467:ASN:HD22	2.23	0.50
1:B:746:ASP:OD2	1:B:757:GLN:NE2	2.45	0.50
1:A:33:PHE:CD1	1:A:33:PHE:N	2.73	0.50
1:C:205:MET:HE2	1:C:365:GLN:CG	2.28	0.50
1:B:23:GLN:CG	1:B:26:ARG:NH2	2.75	0.50
1:A:23:GLN:CG	1:A:26:ARG:NH2	2.75	0.50
1:B:793:ILE:O	1:B:796:SER:HB3	2.11	0.50
1:B:430:PRO:HG3	1:C:445:GLN:HE21	1.66	0.50
1:C:548:GLY:CA	1:C:908:ASP:OD1	2.59	0.50
1:D:272:ALA:HB2	1:D:291:LEU:HD21	1.53	0.50
1:A:738:PRO:HG3	1:A:751:LEU:HD12	1.93	0.50
1:D:653:HIS:HE1	1:D:655:MET:HB3	1.75	0.50
1:D:944:LEU:HD12	1:D:945:ASN:H	1.72	0.50
1:A:278:ILE:HG12	1:A:278:ILE:O	2.12	0.50
1:A:906:TYR:CD2	1:A:993:ILE:HG22	2.45	0.50
1:D:1009:LEU:HD23	1:D:1009:LEU:H	1.74	0.50
1:D:1011:ALA:HB3	1:D:1014:TYR:CE1	2.47	0.50
1:A:1009:LEU:H	1:A:1009:LEU:HD23	1.74	0.50
1:A:1011:ALA:HB3	1:A:1014:TYR:CE1	2.47	0.50
1:A:987:ASP:OD1	1:A:989:PHE:N	2.44	0.50
1:D:763:GLY:HA2	1:D:822:LEU:HD21	1.89	0.50
1:A:746:ASP:OD2	1:A:757:GLN:NE2	2.45	0.50
1:C:873:ALA:O	1:C:876:THR:CG2	2.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:657:ALA:C	1:C:661:LYS:O	2.48	0.50
1:D:105:TYR:HD1	1:D:109:VAL:CG2	2.25	0.50
1:C:105:TYR:HD1	1:C:109:VAL:CG2	2.25	0.50
1:B:91:GLN:CD	1:B:190:ARG:HH22	2.10	0.50
1:C:768:MET:HE1	1:C:1020:TRP:CE2	2.46	0.50
1:B:23:GLN:HG2	1:B:26:ARG:CZ	2.39	0.50
1:A:793:ILE:O	1:A:796:SER:HB3	2.11	0.50
1:D:548:GLY:CA	1:D:908:ASP:OD1	2.59	0.50
1:A:548:GLY:CA	1:A:908:ASP:OD1	2.59	0.50
1:B:695:TRP:CE3	1:B:719:GLN:NE2	2.79	0.50
1:A:147:ASN:O	1:A:188:VAL:HG12	2.10	0.50
1:C:516:PRO:CB	1:C:518:TRP:CZ2	2.91	0.50
1:A:470:ALA:CB	1:D:474:TRP:HB2	2.40	0.50
1:D:678:GLN:C	1:D:679:LEU:HD23	2.32	0.50
1:B:738:PRO:HG3	1:B:751:LEU:HD12	1.93	0.50
1:C:944:LEU:HD12	1:C:945:ASN:H	1.72	0.50
1:B:278:ILE:O	1:B:278:ILE:HG12	2.12	0.50
1:B:1009:LEU:HD23	1:B:1009:LEU:H	1.74	0.50
1:C:962:TYR:CD1	1:C:962:TYR:N	2.78	0.50
1:A:433:LEU:CB	1:A:467:ASN:HD22	2.23	0.50
1:D:770:ILE:CG2	1:D:773:LYS:CB	2.88	0.50
1:D:657:ALA:C	1:D:661:LYS:O	2.48	0.50
1:C:52:ARG:HG3	1:C:53:SER:N	2.27	0.50
1:A:11:LEU:O	1:A:14:ARG:HA	2.11	0.50
1:A:59:ARG:HG3	1:A:59:ARG:NH1	2.26	0.50
1:A:90:TRP:CD1	1:A:90:TRP:C	2.85	0.50
1:B:11:LEU:O	1:B:14:ARG:HA	2.11	0.50
1:B:90:TRP:C	1:B:90:TRP:CD1	2.85	0.50
1:D:768:MET:HE1	1:D:1020:TRP:CE2	2.46	0.50
1:A:23:GLN:HG2	1:A:26:ARG:CZ	2.39	0.50
1:D:793:ILE:HD13	1:D:807:VAL:HB	1.94	0.50
1:C:793:ILE:HD13	1:C:807:VAL:HB	1.94	0.50
1:C:783:GLN:HE21	1:C:881:ARG:CD	2.22	0.50
1:C:316:HIS:CA	1:C:322:LEU:HA	2.36	0.50
1:C:369:GLU:HA	1:C:372:MET:CE	2.40	0.50
1:A:610:ASP:N	1:A:611:ARG:CA	2.70	0.50
1:A:695:TRP:CE3	1:A:719:GLN:NE2	2.79	0.50
1:B:470:ALA:CB	1:C:474:TRP:HB2	2.41	0.50
1:C:906:TYR:HE2	1:C:934:GLU:OE2	1.93	0.50
1:D:906:TYR:HE2	1:D:934:GLU:OE2	1.93	0.50
1:B:806:TRP:HZ2	1:B:1008:GLN:OE1	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:310:ARG:NH1	1:B:329:ASP:OD1	2.45	0.50
1:C:150:PHE:HA	1:C:187:MET:O	2.12	0.50
1:A:310:ARG:NH1	1:A:329:ASP:OD1	2.45	0.50
1:A:128:ASN:OD1	1:A:181:GLU:HA	2.12	0.50
1:B:128:ASN:OD1	1:B:181:GLU:HA	2.12	0.50
1:C:770:ILE:CG2	1:C:773:LYS:CB	2.88	0.50
1:B:33:PHE:CD1	1:B:33:PHE:N	2.73	0.50
1:A:230:ARG:CZ	1:A:241:GLU:OE2	2.60	0.50
1:B:230:ARG:CZ	1:B:241:GLU:OE2	2.60	0.50
1:D:52:ARG:HG3	1:D:53:SER:N	2.27	0.50
1:D:7:LEU:CD1	1:D:7:LEU:H	2.25	0.50
1:C:202:MET:HE3	1:C:202:MET:H	1.76	0.50
1:C:420:MET:O	1:C:423:MET:CA	2.58	0.50
1:C:572:ASP:OD2	1:C:603:MET:HE2	2.11	0.50
1:A:200:GLN:O	1:A:202:MET:HE2	2.07	0.50
1:A:7:LEU:H	1:A:7:LEU:CD1	2.25	0.50
1:B:7:LEU:H	1:B:7:LEU:CD1	2.25	0.50
1:C:77:ASP:CB	1:C:183:ARG:HH12	2.24	0.50
1:A:37:ARG:HE	1:A:50:GLN:HG2	1.77	0.50
1:B:37:ARG:HE	1:B:50:GLN:HG2	1.77	0.50
1:D:783:GLN:HE21	1:D:881:ARG:CD	2.22	0.50
1:B:548:GLY:CA	1:B:908:ASP:OD1	2.59	0.50
1:B:147:ASN:O	1:B:188:VAL:HG12	2.10	0.50
1:C:678:GLN:C	1:C:679:LEU:HD23	2.32	0.50
1:A:806:TRP:HZ2	1:A:1008:GLN:OE1	1.94	0.50
1:C:763:GLY:HA2	1:C:822:LEU:HD21	1.89	0.50
1:B:433:LEU:CB	1:B:467:ASN:HD22	2.23	0.50
1:C:823:LEU:HG	1:C:839:ALA:CB	2.41	0.50
1:C:824:GLN:HE21	1:C:825:CYS:H	1.48	0.50
1:D:202:MET:H	1:D:202:MET:HE3	1.76	0.50
1:D:205:MET:HE2	1:D:365:GLN:CG	2.29	0.50
1:D:420:MET:O	1:D:423:MET:CA	2.58	0.50
1:C:7:LEU:H	1:C:7:LEU:CD1	2.25	0.50
1:A:202:MET:HE2	1:A:202:MET:N	2.27	0.50
1:D:77:ASP:CB	1:D:183:ARG:HH12	2.24	0.50
1:A:601:PHE:HZ	1:A:998:SER:CB	2.20	0.50
1:D:369:GLU:HA	1:D:372:MET:CE	2.40	0.50
1:D:607:VAL:CG1	1:D:617:LEU:CD1	2.73	0.50
1:C:706:THR:CG2	1:C:707:ALA:H	2.24	0.50
1:D:337:ILE:HG13	1:D:342:LEU:HD12	1.94	0.50
1:A:944:LEU:HD12	1:A:945:ASN:H	1.72	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:786:ARG:HD3	1:B:880:ALA:HB3	1.91	0.50
1:D:150:PHE:HA	1:D:187:MET:O	2.12	0.50
1:D:255:ARG:N	1:D:255:ARG:CD	2.73	0.49
1:D:823:LEU:HG	1:D:839:ALA:CB	2.41	0.49
1:B:692:GLY:O	1:B:725:ASN:CB	2.60	0.49
1:A:692:GLY:O	1:A:725:ASN:CB	2.60	0.49
1:D:111:PRO:CG	1:D:196:TYR:HE2	2.25	0.49
1:B:118:ASN:ND2	1:B:118:ASN:N	2.60	0.49
1:D:21:VAL:CG1	1:D:24:LEU:CD2	2.88	0.49
1:C:21:VAL:CG1	1:C:24:LEU:CD2	2.88	0.49
1:C:23:GLN:CG	1:C:26:ARG:NH2	2.75	0.49
1:B:801:ILE:HD12	1:B:808:GLU:OE2	2.12	0.49
1:B:601:PHE:HZ	1:B:998:SER:CB	2.20	0.49
1:A:801:ILE:HD12	1:A:808:GLU:OE2	2.12	0.49
1:B:610:ASP:N	1:B:611:ARG:CA	2.70	0.49
1:A:430:PRO:HG3	1:D:445:GLN:HE21	1.66	0.49
1:B:430:PRO:CG	1:C:445:GLN:NE2	2.65	0.49
1:D:497:ASP:O	1:D:531:ARG:HD2	2.10	0.49
1:C:337:ILE:HG13	1:C:342:LEU:HD12	1.94	0.49
1:B:825:CYS:C	1:B:826:THR:CG2	2.79	0.49
1:A:825:CYS:C	1:A:826:THR:CG2	2.79	0.49
1:C:255:ARG:N	1:C:255:ARG:CD	2.73	0.49
1:A:654:TRP:NE1	1:A:666:GLY:HA3	2.13	0.49
1:A:118:ASN:N	1:A:118:ASN:ND2	2.60	0.49
1:D:18:ASN:ND2	1:D:20:GLY:N	2.60	0.49
1:D:23:GLN:CG	1:D:26:ARG:NH2	2.75	0.49
1:A:23:GLN:HB2	1:A:161:TYR:O	2.11	0.49
1:A:612:THR:CG2	1:A:613:PRO:CD	2.87	0.49
1:B:612:THR:CG2	1:B:613:PRO:CD	2.87	0.49
1:C:497:ASP:O	1:C:531:ARG:HD2	2.10	0.49
1:D:706:THR:CG2	1:D:707:ALA:H	2.24	0.49
1:B:1022:GLN:NE2	1:B:1022:GLN:CA	2.73	0.49
1:C:431:ARG:O	1:C:434:PRO:HD2	2.13	0.49
1:C:128:ASN:OD1	1:C:181:GLU:HA	2.12	0.49
1:A:823:LEU:CD1	1:A:824:GLN:N	2.69	0.49
1:D:651:LEU:HG	1:D:703:PRO:HG2	1.85	0.49
1:D:391:HIS:N	1:D:391:HIS:HD1	2.08	0.49
1:D:391:HIS:N	1:D:391:HIS:ND1	2.60	0.49
1:C:111:PRO:CG	1:C:196:TYR:HE2	2.25	0.49
1:C:391:HIS:ND1	1:C:391:HIS:N	2.60	0.49
1:C:18:ASN:ND2	1:C:20:GLY:N	2.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:76:CYS:C	1:D:183:ARG:NH1	2.65	0.49
1:C:76:CYS:C	1:C:183:ARG:NH1	2.65	0.49
1:B:23:GLN:HB2	1:B:161:TYR:O	2.11	0.49
1:A:430:PRO:CG	1:D:445:GLN:NE2	2.65	0.49
1:D:738:PRO:HG3	1:D:751:LEU:HD12	1.93	0.49
1:B:679:LEU:HD23	1:B:679:LEU:N	2.27	0.49
1:A:1022:GLN:CA	1:A:1022:GLN:NE2	2.73	0.49
1:D:431:ARG:O	1:D:434:PRO:HD2	2.13	0.49
1:D:128:ASN:OD1	1:D:181:GLU:HA	2.12	0.49
1:C:313:VAL:N	1:C:326:GLU:O	2.33	0.49
1:B:255:ARG:CD	1:B:255:ARG:N	2.73	0.49
1:A:658:LEU:HD11	1:A:692:GLY:HA3	1.95	0.49
1:A:4:THR:CG2	1:D:12:GLN:HE21	2.20	0.49
1:C:391:HIS:HD1	1:C:391:HIS:N	2.08	0.49
1:A:105:TYR:HD1	1:A:109:VAL:CG2	2.25	0.49
1:B:105:TYR:HD1	1:B:109:VAL:CG2	2.25	0.49
1:B:572:ASP:CG	1:B:603:MET:CE	2.79	0.49
1:A:73:TRP:HE1	1:A:183:ARG:NH2	2.07	0.49
1:B:915:PHE:C	1:B:915:PHE:CD2	2.85	0.49
1:B:670:LEU:HD11	1:B:672:VAL:HG23	1.94	0.49
1:A:679:LEU:HD23	1:A:679:LEU:N	2.27	0.49
1:C:679:LEU:HD23	1:C:679:LEU:N	2.27	0.49
1:A:786:ARG:HD3	1:A:880:ALA:HB3	1.91	0.49
1:C:880:ALA:O	1:C:991:MET:CB	2.59	0.49
1:D:880:ALA:O	1:D:991:MET:CB	2.59	0.49
1:B:823:LEU:CD1	1:B:824:GLN:N	2.69	0.49
1:A:349:LEU:HD22	1:A:351:ILE:HD11	1.84	0.49
1:C:971:SER:HG	1:C:972:HIS:CE1	2.14	0.49
1:B:658:LEU:HD11	1:B:692:GLY:HA3	1.95	0.49
1:A:572:ASP:CG	1:A:603:MET:CE	2.79	0.49
1:B:107:ILE:CD1	1:B:196:TYR:HE1	2.10	0.49
1:C:738:PRO:HG3	1:C:751:LEU:HD12	1.93	0.49
1:A:670:LEU:HD11	1:A:672:VAL:HG23	1.94	0.49
1:D:679:LEU:HD23	1:D:679:LEU:N	2.27	0.49
1:B:944:LEU:HD12	1:B:945:ASN:H	1.72	0.49
1:B:1009:LEU:HB3	1:B:1014:TYR:CZ	2.48	0.49
1:C:663:LEU:HB3	1:C:686:PRO:HG3	1.95	0.49
1:A:150:PHE:HA	1:A:187:MET:O	2.12	0.49
1:D:663:LEU:HB3	1:D:686:PRO:HG3	1.95	0.49
1:D:362:LEU:HD23	1:D:576:ILE:HG13	1.94	0.49
1:B:150:PHE:HA	1:B:187:MET:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:431:ARG:O	1:A:434:PRO:HD2	2.13	0.49
1:B:823:LEU:HD21	1:B:839:ALA:CB	2.25	0.49
1:D:313:VAL:N	1:D:326:GLU:O	2.33	0.49
1:D:824:GLN:HE21	1:D:825:CYS:H	1.48	0.49
1:A:255:ARG:N	1:A:255:ARG:CD	2.73	0.49
1:B:654:TRP:NE1	1:B:666:GLY:HA3	2.13	0.49
1:C:692:GLY:O	1:C:725:ASN:CB	2.60	0.49
1:C:118:ASN:ND2	1:C:118:ASN:N	2.60	0.49
1:B:89:ASN:HD22	1:B:205:MET:HE3	1.76	0.49
1:A:21:VAL:CG1	1:A:24:LEU:CD2	2.88	0.49
1:C:802:ASP:CG	1:C:803:PRO:HD2	2.33	0.49
1:B:789:LEU:N	1:B:792:ASP:OD2	2.46	0.49
1:D:50:GLN:NE2	1:D:50:GLN:N	2.60	0.49
1:C:50:GLN:NE2	1:C:50:GLN:N	2.60	0.49
1:A:402:CYS:SG	1:A:409:VAL:CG2	3.01	0.49
1:A:402:CYS:SG	1:A:409:VAL:HG21	2.53	0.49
1:B:402:CYS:SG	1:B:409:VAL:CG2	3.01	0.49
1:B:402:CYS:SG	1:B:409:VAL:HG21	2.53	0.49
1:A:915:PHE:CD2	1:A:915:PHE:C	2.86	0.49
1:D:670:LEU:HD11	1:D:672:VAL:HG23	1.94	0.49
1:A:740:LEU:HD12	1:A:740:LEU:C	2.33	0.49
1:B:740:LEU:HD12	1:B:740:LEU:C	2.33	0.49
1:D:853:ARG:CG	1:D:853:ARG:NH1	2.73	0.49
1:B:262:GLN:HB2	1:B:309:TYR:CE2	2.48	0.49
1:A:262:GLN:HB2	1:A:309:TYR:CE2	2.48	0.49
1:B:362:LEU:HD23	1:B:576:ILE:HG13	1.94	0.49
1:A:362:LEU:HD23	1:A:576:ILE:HG13	1.94	0.49
1:B:431:ARG:O	1:B:434:PRO:HD2	2.13	0.49
1:B:246:MET:CB	1:B:274:PHE:CZ	2.91	0.49
1:A:246:MET:CB	1:A:274:PHE:CZ	2.91	0.49
1:B:657:ALA:CB	1:B:661:LYS:O	2.61	0.49
1:A:657:ALA:CB	1:A:661:LYS:O	2.61	0.49
1:B:395:HIS:ND1	1:B:396:PRO:CG	2.72	0.49
1:A:358:GLU:CA	1:A:367:MET:HE3	2.37	0.49
1:B:21:VAL:CG1	1:B:24:LEU:CD2	2.88	0.49
1:D:802:ASP:CG	1:D:803:PRO:HD2	2.33	0.49
1:B:793:ILE:HD13	1:B:807:VAL:HB	1.94	0.49
1:A:789:LEU:N	1:A:792:ASP:OD2	2.46	0.49
1:D:509:ASP:HB3	1:D:519:SER:H	1.76	0.49
1:C:670:LEU:HD11	1:C:672:VAL:HG23	1.94	0.49
1:C:853:ARG:NH1	1:C:853:ARG:CG	2.73	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1009:LEU:HB3	1:D:1014:TYR:CZ	2.48	0.49
1:A:1009:LEU:HB3	1:A:1014:TYR:CZ	2.48	0.49
1:A:439:ARG:NH1	1:A:439:ARG:CG	2.73	0.49
1:C:310:ARG:NH1	1:C:329:ASP:OD1	2.45	0.49
1:C:330:VAL:HG11	1:C:332:PHE:HE1	1.78	0.49
1:D:330:VAL:HG11	1:D:332:PHE:HE1	1.78	0.49
1:C:362:LEU:HD23	1:C:576:ILE:HG13	1.94	0.49
1:C:358:GLU:O	1:C:367:MET:HE2	2.10	0.49
1:D:692:GLY:O	1:D:725:ASN:CB	2.60	0.49
1:C:658:LEU:HD11	1:C:692:GLY:HA3	1.95	0.49
1:C:651:LEU:HG	1:C:703:PRO:HG2	1.85	0.49
1:D:90:TRP:C	1:D:90:TRP:CD1	2.85	0.49
1:C:90:TRP:CD1	1:C:90:TRP:C	2.85	0.49
1:A:395:HIS:ND1	1:A:396:PRO:CG	2.72	0.49
1:B:59:ARG:NH1	1:B:59:ARG:HG3	2.26	0.49
1:A:76:CYS:C	1:A:183:ARG:NH1	2.65	0.49
1:B:76:CYS:C	1:B:183:ARG:NH1	2.65	0.49
1:B:73:TRP:HE1	1:B:183:ARG:NH2	2.07	0.49
1:C:891:VAL:HG21	1:C:961:ARG:NH2	2.28	0.49
1:C:458:LEU:HD22	1:C:471:LEU:HD12	1.95	0.49
1:B:3:ILE:CG2	1:B:9:VAL:CG2	2.72	0.49
1:C:317:THR:HG1	1:C:321:THR:CA	2.26	0.49
1:B:337:ILE:HG13	1:B:342:LEU:HD12	1.94	0.49
1:C:1009:LEU:HB3	1:C:1014:TYR:CZ	2.48	0.49
1:B:469:ASP:O	1:C:473:ARG:HG3	2.13	0.49
1:A:469:ASP:O	1:D:473:ARG:HG3	2.12	0.49
1:B:439:ARG:NH1	1:B:439:ARG:CG	2.73	0.49
1:D:310:ARG:NH1	1:D:329:ASP:OD1	2.45	0.49
1:A:221:GLN:NE2	1:A:221:GLN:N	2.60	0.49
1:C:724:GLU:CB	1:D:874:SER:N	2.65	0.49
1:B:199:ASP:C	1:B:416:GLU:HG2	2.33	0.49
1:C:395:HIS:ND1	1:C:396:PRO:CG	2.72	0.49
1:B:769:TRP:CZ2	1:B:774:LYS:CG	2.75	0.49
1:B:890:GLN:NE2	1:B:948:PRO:HD3	2.27	0.49
1:C:890:GLN:HE21	1:C:948:PRO:HD3	1.77	0.49
1:C:890:GLN:NE2	1:C:948:PRO:HD3	2.27	0.49
1:A:18:ASN:ND2	1:A:20:GLY:N	2.60	0.49
1:D:789:LEU:N	1:D:792:ASP:OD2	2.46	0.49
1:A:793:ILE:HD13	1:A:807:VAL:HB	1.94	0.49
1:D:891:VAL:HG21	1:D:961:ARG:NH2	2.28	0.49
1:C:610:ASP:N	1:C:611:ARG:CA	2.70	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:524:LEU:CD1	1:A:562:LEU:HD13	2.41	0.49
1:D:458:LEU:HD22	1:D:471:LEU:HD12	1.95	0.49
1:C:402:CYS:SG	1:C:409:VAL:HG21	2.53	0.49
1:C:509:ASP:HB3	1:C:519:SER:H	1.76	0.49
1:A:3:ILE:CG2	1:A:9:VAL:CG2	2.72	0.49
1:D:317:THR:HG1	1:D:321:THR:CA	2.26	0.49
1:A:337:ILE:HG13	1:A:342:LEU:HD12	1.94	0.49
1:D:262:GLN:HB2	1:D:309:TYR:CE2	2.48	0.49
1:B:473:ARG:NE	1:B:473:ARG:CA	2.73	0.49
1:B:349:LEU:HD22	1:B:351:ILE:HD11	1.84	0.49
1:C:652:LEU:HD11	1:C:698:VAL:HG11	1.81	0.49
1:B:221:GLN:NE2	1:B:221:GLN:N	2.60	0.49
1:D:657:ALA:CB	1:D:661:LYS:O	2.61	0.49
1:C:657:ALA:CB	1:C:661:LYS:O	2.61	0.49
1:A:90:TRP:CZ2	1:A:206:SER:OG	2.66	0.49
1:D:395:HIS:ND1	1:D:396:PRO:CG	2.72	0.49
1:A:890:GLN:NE2	1:A:948:PRO:HD3	2.27	0.49
1:B:18:ASN:ND2	1:B:20:GLY:N	2.61	0.49
1:C:789:LEU:N	1:C:792:ASP:OD2	2.46	0.49
1:B:22:THR:CA	1:B:163:GLN:CB	2.91	0.49
1:C:230:ARG:CZ	1:C:241:GLU:OE2	2.60	0.49
1:C:740:LEU:CD2	1:C:829:THR:OG1	2.61	0.49
1:A:52:ARG:HG3	1:A:53:SER:N	2.27	0.49
1:C:262:GLN:HB2	1:C:309:TYR:CE2	2.48	0.49
1:A:473:ARG:CA	1:A:473:ARG:NE	2.73	0.49
1:C:159:VAL:CG1	1:C:176:PHE:HE1	2.26	0.48
1:B:178:ARG:CG	1:B:178:ARG:NH1	2.73	0.48
1:D:763:GLY:HA3	1:D:822:LEU:HD21	1.93	0.48
1:D:658:LEU:HD11	1:D:692:GLY:HA3	1.95	0.48
1:D:199:ASP:HB3	1:D:418:HIS:H	1.78	0.48
1:B:4:THR:CG2	1:C:12:GLN:HE21	2.21	0.48
1:A:107:ILE:CD1	1:A:196:TYR:HE1	2.10	0.48
1:B:90:TRP:CZ2	1:B:206:SER:OG	2.66	0.48
1:D:890:GLN:HE21	1:D:948:PRO:HD3	1.77	0.48
1:D:890:GLN:NE2	1:D:948:PRO:HD3	2.27	0.48
1:A:22:THR:CA	1:A:163:GLN:CB	2.91	0.48
1:C:22:THR:CA	1:C:163:GLN:CB	2.91	0.48
1:D:610:ASP:N	1:D:611:ARG:CA	2.70	0.48
1:D:626:PHE:HA	1:D:641:GLU:HB2	1.91	0.48
1:B:524:LEU:CD1	1:B:562:LEU:HD13	2.41	0.48
1:D:402:CYS:SG	1:D:409:VAL:HG21	2.53	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:723:ALA:HA	1:D:875:ASP:HB2	1.94	0.48
1:B:52:ARG:HG3	1:B:53:SER:N	2.27	0.48
1:D:740:LEU:CD2	1:D:829:THR:OG1	2.61	0.48
1:D:159:VAL:CG1	1:D:176:PHE:HE1	2.26	0.48
1:A:764:PHE:CZ	1:A:840:HIS:CE1	2.84	0.48
1:A:823:LEU:HD21	1:A:839:ALA:CB	2.25	0.48
1:B:351:ILE:HG23	1:B:386:ALA:CB	2.43	0.48
1:B:280:ASP:HA	1:B:281:GLU:HA	1.49	0.48
1:C:199:ASP:HB3	1:C:418:HIS:H	1.78	0.48
1:A:199:ASP:C	1:A:416:GLU:HG2	2.33	0.48
1:B:390:SER:OG	1:B:391:HIS:HE1	1.88	0.48
1:D:801:ILE:HD12	1:D:808:GLU:OE2	2.12	0.48
1:C:801:ILE:HD12	1:C:808:GLU:OE2	2.12	0.48
1:D:22:THR:CA	1:D:163:GLN:CB	2.91	0.48
1:B:891:VAL:HG21	1:B:961:ARG:NH2	2.28	0.48
1:A:891:VAL:HG21	1:A:961:ARG:NH2	2.28	0.48
1:B:352:ARG:NH1	1:B:626:PHE:CE2	2.81	0.48
1:D:402:CYS:SG	1:D:409:VAL:CG2	3.01	0.48
1:C:402:CYS:SG	1:C:409:VAL:CG2	3.01	0.48
1:C:440:VAL:O	1:C:444:VAL:HG23	2.14	0.48
1:C:230:ARG:NH1	1:C:241:GLU:OE2	2.46	0.48
1:D:230:ARG:CZ	1:D:241:GLU:OE2	2.60	0.48
1:B:54:LEU:CD2	1:B:214:LEU:HD11	2.43	0.48
1:D:343:LEU:HD21	1:D:348:PRO:N	2.29	0.48
1:C:343:LEU:HD21	1:C:348:PRO:N	2.29	0.48
1:A:178:ARG:CG	1:A:178:ARG:NH1	2.73	0.48
1:B:764:PHE:CZ	1:B:840:HIS:CE1	2.84	0.48
1:A:351:ILE:HG23	1:A:386:ALA:CB	2.43	0.48
1:C:221:GLN:N	1:C:221:GLN:NE2	2.60	0.48
1:C:36:TRP:HZ2	1:C:327:ALA:CB	2.25	0.48
1:D:221:GLN:NE2	1:D:221:GLN:N	2.60	0.48
1:C:874:SER:N	1:D:724:GLU:CB	2.65	0.48
1:D:572:ASP:OD2	1:D:603:MET:HE2	2.13	0.48
1:D:16:TRP:O	1:D:193:ASP:CG	2.51	0.48
1:C:16:TRP:O	1:C:193:ASP:CG	2.51	0.48
1:B:998:SER:HB2	1:B:999:TRP:CE3	2.49	0.48
1:A:790:ASP:OD1	1:A:791:ASN:CG	2.52	0.48
1:A:998:SER:HB2	1:A:999:TRP:CE3	2.49	0.48
1:D:350:LEU:CD2	1:D:641:GLU:OE2	2.61	0.48
1:C:350:LEU:CD2	1:C:641:GLU:OE2	2.61	0.48
1:A:352:ARG:NH1	1:A:626:PHE:CE2	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:440:VAL:O	1:D:444:VAL:HG23	2.14	0.48
1:D:230:ARG:NH1	1:D:241:GLU:OE2	2.46	0.48
1:C:875:ASP:HB2	1:D:723:ALA:HA	1.94	0.48
1:C:836:ILE:O	1:C:855:THR:HA	2.14	0.48
1:A:54:LEU:CD2	1:A:214:LEU:HD11	2.43	0.48
1:D:836:ILE:O	1:D:855:THR:HA	2.14	0.48
1:D:166:ARG:HG3	1:D:392:TYR:CB	2.36	0.48
1:B:473:ARG:HG3	1:C:469:ASP:O	2.12	0.48
1:D:652:LEU:HD11	1:D:698:VAL:HG11	1.81	0.48
1:A:230:ARG:NH1	1:A:241:GLU:OE2	2.46	0.48
1:A:769:TRP:CZ2	1:A:774:LYS:CG	2.75	0.48
1:B:783:GLN:NE2	1:B:881:ARG:HE	2.10	0.48
1:A:50:GLN:N	1:A:50:GLN:NE2	2.60	0.48
1:B:790:ASP:OD1	1:B:791:ASN:CG	2.52	0.48
1:D:37:ARG:HE	1:D:50:GLN:HG2	1.77	0.48
1:C:37:ARG:HE	1:C:50:GLN:HG2	1.77	0.48
1:C:306:PRO:HG3	1:C:404:ARG:O	2.12	0.48
1:D:306:PRO:HG3	1:D:404:ARG:O	2.12	0.48
1:D:583:ASN:OD1	1:D:583:ASN:O	2.31	0.48
1:C:583:ASN:O	1:C:583:ASN:OD1	2.31	0.48
1:B:343:LEU:HD21	1:B:348:PRO:N	2.29	0.48
1:C:277:GLU:OE2	1:C:290:THR:CB	2.60	0.48
1:A:473:ARG:HG3	1:D:469:ASP:O	2.12	0.48
1:C:763:GLY:HA3	1:C:822:LEU:HD21	1.93	0.48
1:D:36:TRP:HZ2	1:D:327:ALA:CB	2.25	0.48
1:B:246:MET:HE2	1:B:274:PHE:CZ	2.49	0.48
1:A:272:ALA:HB3	1:A:289:VAL:HG21	1.96	0.48
1:B:272:ALA:HB3	1:B:289:VAL:HG21	1.96	0.48
1:C:152:LEU:HD12	1:C:153:TRP:N	2.29	0.48
1:A:395:HIS:ND1	1:A:396:PRO:N	2.61	0.48
1:B:395:HIS:ND1	1:B:396:PRO:N	2.61	0.48
1:B:890:GLN:HE21	1:B:948:PRO:HD3	1.77	0.48
1:A:890:GLN:HE21	1:A:948:PRO:HD3	1.77	0.48
1:A:783:GLN:NE2	1:A:881:ARG:HE	2.10	0.48
1:C:783:GLN:NE2	1:C:881:ARG:HE	2.10	0.48
1:D:783:GLN:NE2	1:D:881:ARG:HE	2.10	0.48
1:A:942:ARG:NH2	1:A:942:ARG:CG	2.73	0.48
1:A:377:LEU:CD2	1:A:708:TRP:HA	2.43	0.48
1:A:343:LEU:HD21	1:A:348:PRO:N	2.29	0.48
1:D:277:GLU:OE2	1:D:290:THR:CB	2.60	0.48
1:B:159:VAL:CG1	1:B:176:PHE:HE1	2.26	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:230:ARG:NH1	1:B:241:GLU:OE2	2.46	0.48
1:D:152:LEU:HD12	1:D:153:TRP:N	2.29	0.48
1:D:199:ASP:C	1:D:416:GLU:HG2	2.33	0.48
1:A:390:SER:OG	1:A:391:HIS:HE1	1.87	0.48
1:A:426:LEU:HD22	1:A:432:TRP:CE2	2.49	0.48
1:B:426:LEU:HD22	1:B:432:TRP:CE2	2.49	0.48
1:A:359:HIS:CD2	1:A:359:HIS:C	2.86	0.48
1:C:355:ASN:ND2	1:C:537:GLU:HG2	2.26	0.48
1:B:50:GLN:NE2	1:B:50:GLN:N	2.60	0.48
1:D:322:LEU:HD12	1:D:322:LEU:C	2.33	0.48
1:A:354:VAL:CG2	1:A:570:TRP:HB2	2.44	0.48
1:B:354:VAL:CG2	1:B:570:TRP:HB2	2.44	0.48
1:A:458:LEU:HD22	1:A:471:LEU:HD12	1.95	0.48
1:A:866:ILE:O	1:A:1017:GLN:CG	2.50	0.48
1:C:2:MET:O	1:C:5:ASP:HB2	2.13	0.48
1:A:159:VAL:CG1	1:A:176:PHE:HE1	2.26	0.48
1:C:359:HIS:CD2	1:C:359:HIS:C	2.86	0.48
1:C:823:LEU:HD12	1:C:823:LEU:C	2.32	0.48
1:B:313:VAL:N	1:B:326:GLU:O	2.33	0.48
1:A:313:VAL:N	1:A:326:GLU:O	2.33	0.48
1:B:421:VAL:HG13	1:C:283:GLY:HA3	1.96	0.48
1:B:556:PHE:N	1:B:556:PHE:HD2	2.12	0.48
1:B:767:GLN:HE22	1:B:774:LYS:HB3	1.78	0.48
1:A:556:PHE:HD2	1:A:556:PHE:N	2.12	0.48
1:C:790:ASP:OD1	1:C:791:ASN:CG	2.52	0.48
1:C:322:LEU:C	1:C:322:LEU:HD12	2.33	0.48
1:A:407:LEU:HD22	1:A:407:LEU:O	2.13	0.48
1:B:458:LEU:HD22	1:B:471:LEU:HD12	1.95	0.48
1:C:915:PHE:CD2	1:C:915:PHE:C	2.86	0.48
1:B:942:ARG:NH2	1:B:942:ARG:CG	2.73	0.48
1:A:836:ILE:O	1:A:855:THR:HA	2.14	0.48
1:B:377:LEU:CD2	1:B:708:TRP:HA	2.44	0.48
1:B:836:ILE:O	1:B:855:THR:HA	2.14	0.48
1:C:166:ARG:HG3	1:C:392:TYR:CB	2.36	0.48
1:B:1015:HIS:C	1:B:1015:HIS:CD2	2.87	0.48
1:D:1015:HIS:CD2	1:D:1015:HIS:C	2.87	0.48
1:B:663:LEU:HB3	1:B:686:PRO:HG3	1.95	0.48
1:A:663:LEU:HB3	1:A:686:PRO:HG3	1.95	0.48
1:A:779:PRO:HG2	1:A:781:ARG:HH12	1.76	0.48
1:D:823:LEU:C	1:D:823:LEU:HD12	2.32	0.48
1:A:657:ALA:C	1:A:661:LYS:O	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:202:MET:N	1:D:202:MET:HE3	2.28	0.48
1:C:199:ASP:C	1:C:416:GLU:HG2	2.33	0.48
1:C:202:MET:HE3	1:C:202:MET:N	2.28	0.48
1:A:421:VAL:HG13	1:D:283:GLY:HA3	1.96	0.48
1:B:359:HIS:C	1:B:359:HIS:CD2	2.86	0.48
1:B:768:MET:HE1	1:B:1020:TRP:CE2	2.49	0.48
1:A:768:MET:HE3	1:A:1020:TRP:CE2	2.49	0.48
1:A:767:GLN:HE22	1:A:774:LYS:HB3	1.78	0.48
1:D:556:PHE:CD2	1:D:556:PHE:N	2.82	0.48
1:C:599:ARG:HH21	1:C:599:ARG:HG3	1.79	0.48
1:D:790:ASP:OD1	1:D:791:ASN:CG	2.52	0.48
1:B:619:GLU:OE1	1:B:619:GLU:HA	2.14	0.48
1:B:927:THR:O	1:B:935:ASN:ND2	2.47	0.48
1:A:927:THR:O	1:A:935:ASN:ND2	2.47	0.48
1:B:407:LEU:HD22	1:B:407:LEU:O	2.13	0.48
1:B:583:ASN:OD1	1:B:583:ASN:O	2.31	0.48
1:D:908:ASP:OD1	1:D:1007:PHE:CE1	2.53	0.48
1:A:488:GLY:O	1:A:493:THR:HG21	2.14	0.48
1:B:440:VAL:O	1:B:444:VAL:HG23	2.14	0.48
1:D:915:PHE:CD2	1:D:915:PHE:C	2.86	0.48
1:D:2:MET:O	1:D:5:ASP:HB2	2.13	0.48
1:A:1015:HIS:CD2	1:A:1015:HIS:C	2.87	0.48
1:D:850:PHE:HD2	1:D:872:VAL:HG22	1.79	0.48
1:B:779:PRO:HG2	1:B:781:ARG:HH12	1.76	0.48
1:C:351:ILE:HG23	1:C:386:ALA:CB	2.43	0.48
1:D:359:HIS:CD2	1:D:359:HIS:C	2.86	0.48
1:C:556:PHE:N	1:C:556:PHE:CD2	2.82	0.48
1:B:322:LEU:C	1:B:322:LEU:HD12	2.33	0.48
1:C:891:VAL:HG13	1:C:961:ARG:NH2	2.04	0.48
1:D:407:LEU:HD22	1:D:407:LEU:O	2.13	0.48
1:A:583:ASN:O	1:A:583:ASN:OD1	2.31	0.48
1:A:440:VAL:O	1:A:444:VAL:HG23	2.14	0.48
1:B:488:GLY:O	1:B:493:THR:HG21	2.14	0.48
1:B:835:LEU:O	1:B:836:ILE:HD13	2.13	0.48
1:B:950:GLN:HE21	1:B:952:ARG:HH21	1.62	0.48
1:A:950:GLN:HE21	1:A:952:ARG:HH21	1.62	0.48
1:B:35:SER:OG	1:B:216:HIS:O	2.18	0.48
1:C:1015:HIS:C	1:C:1015:HIS:CD2	2.87	0.48
1:C:850:PHE:HD2	1:C:872:VAL:HG22	1.79	0.48
1:A:850:PHE:HD2	1:A:872:VAL:HG22	1.79	0.48
1:D:351:ILE:HG23	1:D:386:ALA:CB	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:823:LEU:HG	1:B:839:ALA:CB	2.41	0.48
1:A:244:VAL:HG21	1:A:313:VAL:HG11	1.96	0.48
1:B:272:ALA:HB3	1:B:289:VAL:CG2	2.44	0.48
1:D:90:TRP:CZ2	1:D:206:SER:OG	2.66	0.48
1:B:283:GLY:HA3	1:C:421:VAL:HG13	1.94	0.48
1:C:90:TRP:CZ2	1:C:206:SER:OG	2.66	0.48
1:D:599:ARG:HG3	1:D:599:ARG:HH21	1.79	0.48
1:A:322:LEU:HD12	1:A:322:LEU:C	2.33	0.48
1:C:998:SER:HB2	1:C:999:TRP:CE3	2.49	0.48
1:D:37:ARG:NH2	1:D:50:GLN:HG2	2.23	0.48
1:C:407:LEU:O	1:C:407:LEU:HD22	2.13	0.48
1:D:579:ASP:OD1	1:D:585:TRP:CD1	2.67	0.48
1:D:579:ASP:CG	1:D:583:ASN:OD1	2.53	0.48
1:C:579:ASP:OD1	1:C:585:TRP:CD1	2.67	0.48
1:C:354:VAL:CG2	1:C:570:TRP:HB2	2.44	0.48
1:A:472:TYR:CE1	1:A:484:VAL:HB	2.49	0.48
1:A:496:THR:HG23	1:A:496:THR:O	2.14	0.48
1:B:472:TYR:CE1	1:B:484:VAL:HB	2.49	0.48
1:B:866:ILE:O	1:B:1017:GLN:CG	2.50	0.48
1:D:472:TYR:CE1	1:D:484:VAL:HB	2.49	0.48
1:B:2:MET:O	1:B:5:ASP:HB2	2.13	0.48
1:B:740:LEU:HD23	1:B:834:VAL:CG1	2.44	0.48
1:B:372:MET:HE3	1:B:397:LEU:HD23	1.93	0.48
1:A:143:PHE:O	1:A:168:PRO:HA	2.14	0.48
1:B:143:PHE:O	1:B:168:PRO:HA	2.14	0.48
1:B:427:THR:HG22	1:B:436:MET:HE1	1.48	0.47
1:B:850:PHE:HD2	1:B:872:VAL:HG22	1.79	0.47
1:A:823:LEU:HG	1:A:839:ALA:CB	2.41	0.47
1:C:654:TRP:NE1	1:C:666:GLY:HA3	2.13	0.47
1:B:657:ALA:C	1:B:661:LYS:O	2.48	0.47
1:A:272:ALA:HB3	1:A:289:VAL:CG2	2.44	0.47
1:D:426:LEU:HD22	1:D:432:TRP:CE2	2.49	0.47
1:B:900:LEU:N	1:B:900:LEU:HD23	2.29	0.47
1:D:619:GLU:OE1	1:D:619:GLU:HA	2.14	0.47
1:D:998:SER:HB2	1:D:999:TRP:CE3	2.49	0.47
1:C:619:GLU:HA	1:C:619:GLU:OE1	2.14	0.47
1:A:619:GLU:HA	1:A:619:GLU:OE1	2.14	0.47
1:A:705:ALA:HB2	1:A:711:ALA:CA	2.41	0.47
1:C:579:ASP:CG	1:C:583:ASN:OD1	2.53	0.47
1:A:374:GLN:OE1	1:A:611:ARG:HG2	2.14	0.47
1:D:354:VAL:CG2	1:D:570:TRP:HB2	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:455:ILE:HG21	1:A:485:GLN:HG2	1.96	0.47
1:B:496:THR:O	1:B:496:THR:HG23	2.14	0.47
1:A:232:ASN:OD1	1:A:237:ARG:N	2.47	0.47
1:D:272:ALA:HB3	1:D:289:VAL:HG21	1.96	0.47
1:D:272:ALA:HB3	1:D:289:VAL:CG2	2.44	0.47
1:D:740:LEU:HD12	1:D:740:LEU:C	2.33	0.47
1:A:740:LEU:HD23	1:A:834:VAL:CG1	2.44	0.47
1:A:835:LEU:O	1:A:836:ILE:HD13	2.13	0.47
1:C:880:ALA:O	1:C:991:MET:HB2	2.15	0.47
1:D:880:ALA:O	1:D:991:MET:HB2	2.14	0.47
1:C:663:LEU:HD13	1:C:686:PRO:HB2	1.96	0.47
1:D:663:LEU:HD13	1:D:686:PRO:HB2	1.96	0.47
1:C:159:VAL:HG13	1:C:176:PHE:HE1	1.79	0.47
1:A:849:LEU:CB	1:A:850:PHE:CD1	2.97	0.47
1:B:849:LEU:CB	1:B:850:PHE:CD1	2.97	0.47
1:B:244:VAL:HG21	1:B:313:VAL:HG11	1.96	0.47
1:A:283:GLY:HA3	1:D:421:VAL:HG13	1.94	0.47
1:C:426:LEU:HD22	1:C:432:TRP:CE2	2.49	0.47
1:B:12:GLN:HG3	1:B:12:GLN:O	2.14	0.47
1:C:23:GLN:HG2	1:C:26:ARG:CZ	2.39	0.47
1:A:900:LEU:HD23	1:A:900:LEU:N	2.29	0.47
1:B:802:ASP:CG	1:B:803:PRO:HD2	2.33	0.47
1:D:927:THR:O	1:D:935:ASN:ND2	2.47	0.47
1:A:599:ARG:HH21	1:A:599:ARG:HG3	1.79	0.47
1:C:37:ARG:NH2	1:C:50:GLN:HG2	2.23	0.47
1:B:374:GLN:OE1	1:B:611:ARG:HG2	2.14	0.47
1:A:440:VAL:CG1	1:A:458:LEU:CD2	2.92	0.47
1:B:455:ILE:HG21	1:B:485:GLN:HG2	1.96	0.47
1:A:866:ILE:C	1:A:1017:GLN:HG3	2.33	0.47
1:B:232:ASN:OD1	1:B:237:ARG:N	2.47	0.47
1:D:455:ILE:HG21	1:D:485:GLN:HG2	1.96	0.47
1:D:488:GLY:O	1:D:493:THR:HG21	2.14	0.47
1:C:472:TYR:CE1	1:C:484:VAL:HB	2.49	0.47
1:C:272:ALA:HB3	1:C:289:VAL:CG2	2.44	0.47
1:A:2:MET:O	1:A:5:ASP:HB2	2.13	0.47
1:C:670:LEU:CD1	1:C:672:VAL:HG23	2.44	0.47
1:D:670:LEU:CD1	1:D:672:VAL:HG23	2.44	0.47
1:B:718:GLN:HG2	1:B:720:TRP:CZ2	2.50	0.47
1:A:330:VAL:HG11	1:A:332:PHE:HE1	1.78	0.47
1:B:330:VAL:HG11	1:B:332:PHE:HE1	1.78	0.47
1:D:159:VAL:HG13	1:D:176:PHE:HE1	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:159:VAL:HG13	1:A:176:PHE:HE1	1.79	0.47
1:B:159:VAL:HG13	1:B:176:PHE:HE1	1.79	0.47
1:C:244:VAL:HG21	1:C:313:VAL:HG11	1.96	0.47
1:D:244:VAL:HG21	1:D:313:VAL:HG11	1.96	0.47
1:C:970:THR:CG2	1:C:975:LEU:HB2	2.44	0.47
1:D:970:THR:CG2	1:D:975:LEU:HB2	2.44	0.47
1:A:224:ASP:HB3	1:A:245:GLN:HE21	1.79	0.47
1:C:96:ASP:OD2	1:C:119:PRO:HB3	2.14	0.47
1:A:12:GLN:HG3	1:A:12:GLN:O	2.14	0.47
1:B:199:ASP:HB3	1:B:418:HIS:H	1.78	0.47
1:B:599:ARG:HH21	1:B:599:ARG:HG3	1.79	0.47
1:D:355:ASN:ND2	1:D:537:GLU:HG2	2.26	0.47
1:C:927:THR:O	1:C:935:ASN:ND2	2.47	0.47
1:A:802:ASP:CG	1:A:803:PRO:HD2	2.33	0.47
1:D:579:ASP:O	1:D:582:GLY:N	2.47	0.47
1:C:579:ASP:O	1:C:582:GLY:N	2.47	0.47
1:A:579:ASP:OD1	1:A:585:TRP:CD1	2.67	0.47
1:D:352:ARG:NH1	1:D:626:PHE:CE2	2.81	0.47
1:C:352:ARG:NH1	1:C:626:PHE:CE2	2.81	0.47
1:B:440:VAL:CG1	1:B:458:LEU:CD2	2.92	0.47
1:C:455:ILE:HG21	1:C:485:GLN:HG2	1.96	0.47
1:C:488:GLY:O	1:C:493:THR:HG21	2.14	0.47
1:C:272:ALA:HB3	1:C:289:VAL:HG21	1.96	0.47
1:C:740:LEU:HD12	1:C:740:LEU:C	2.33	0.47
1:B:166:ARG:HD3	1:B:166:ARG:HA	1.61	0.47
1:A:718:GLN:HG2	1:A:720:TRP:CZ2	2.50	0.47
1:C:246:MET:HE3	1:C:274:PHE:CD2	2.42	0.47
1:D:823:LEU:HD21	1:D:839:ALA:CB	2.25	0.47
1:B:224:ASP:HB3	1:B:245:GLN:HE21	1.79	0.47
1:D:658:LEU:HD22	1:D:688:PRO:CG	2.45	0.47
1:D:96:ASP:OD2	1:D:119:PRO:HB3	2.15	0.47
1:A:105:TYR:HD1	1:A:109:VAL:HG22	1.75	0.47
1:A:769:TRP:CZ3	1:A:774:LYS:HG2	2.38	0.47
1:D:23:GLN:HG2	1:D:26:ARG:CZ	2.39	0.47
1:B:705:ALA:HB1	1:B:710:GLU:HA	1.97	0.47
1:A:705:ALA:HB1	1:A:710:GLU:HA	1.97	0.47
1:B:579:ASP:OD1	1:B:585:TRP:CD1	2.67	0.47
1:B:866:ILE:C	1:B:1017:GLN:HG3	2.33	0.47
1:A:670:LEU:CD1	1:A:672:VAL:HG23	2.44	0.47
1:B:377:LEU:HD22	1:B:708:TRP:CA	2.44	0.47
1:C:658:LEU:HD22	1:C:688:PRO:CG	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:199:ASP:HB3	1:A:418:HIS:H	1.78	0.47
1:B:91:GLN:NE2	1:B:190:ARG:NH2	2.63	0.47
1:B:750:GLU:HG2	1:B:755:ARG:CD	2.40	0.47
1:A:750:GLU:HG2	1:A:755:ARG:CD	2.40	0.47
1:C:948:PRO:HG2	1:C:949:HIS:CD2	2.50	0.47
1:D:16:TRP:O	1:D:193:ASP:CA	2.62	0.47
1:B:705:ALA:HB2	1:B:711:ALA:CA	2.41	0.47
1:B:53:SER:OG	1:B:55:ASN:HB2	2.15	0.47
1:C:740:LEU:HD23	1:C:834:VAL:CG1	2.44	0.47
1:A:53:SER:OG	1:A:55:ASN:HB2	2.15	0.47
1:B:670:LEU:CD1	1:B:672:VAL:HG23	2.44	0.47
1:A:377:LEU:HD22	1:A:708:TRP:CA	2.44	0.47
1:D:655:MET:HA	1:D:665:SER:HA	1.96	0.47
1:D:718:GLN:HG2	1:D:720:TRP:CZ2	2.50	0.47
1:C:718:GLN:HG2	1:C:720:TRP:CZ2	2.50	0.47
1:C:765:LEU:O	1:C:765:LEU:CD1	2.47	0.47
1:A:747:PHE:HD1	1:A:760:ARG:HG3	1.79	0.47
1:C:222:ILE:CG2	1:C:244:VAL:CG1	2.93	0.47
1:D:654:TRP:NE1	1:D:666:GLY:HA3	2.13	0.47
1:D:222:ILE:CG2	1:D:244:VAL:CG1	2.93	0.47
1:B:222:ILE:CG2	1:B:244:VAL:CG1	2.93	0.47
1:A:222:ILE:CG2	1:A:244:VAL:CG1	2.93	0.47
1:A:96:ASP:OD2	1:A:119:PRO:HB3	2.15	0.47
1:A:91:GLN:NE2	1:A:190:ARG:NH2	2.63	0.47
1:B:96:ASP:OD2	1:B:119:PRO:HB3	2.14	0.47
1:A:948:PRO:HG2	1:A:949:HIS:CD2	2.50	0.47
1:D:948:PRO:HG2	1:D:949:HIS:CD2	2.50	0.47
1:C:16:TRP:O	1:C:193:ASP:CA	2.62	0.47
1:B:23:GLN:CG	1:B:26:ARG:HH21	2.25	0.47
1:C:900:LEU:N	1:C:900:LEU:HD23	2.29	0.47
1:D:891:VAL:HG13	1:D:961:ARG:NH2	2.04	0.47
1:B:407:LEU:HD12	1:B:407:LEU:H	1.80	0.47
1:A:350:LEU:HD21	1:A:553:TRP:HZ3	1.79	0.47
1:D:695:TRP:CE3	1:D:719:GLN:NE2	2.79	0.47
1:C:695:TRP:CE3	1:C:719:GLN:NE2	2.79	0.47
1:D:740:LEU:HD23	1:D:834:VAL:CG1	2.44	0.47
1:C:655:MET:HA	1:C:665:SER:HA	1.96	0.47
1:D:968:MET:HE2	1:D:968:MET:HB2	1.50	0.47
1:D:765:LEU:O	1:D:765:LEU:CD1	2.47	0.47
1:A:778:THR:HG23	1:A:779:PRO:HD2	1.95	0.47
1:B:747:PHE:HD1	1:B:760:ARG:HG3	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:824:GLN:CD	1:A:825:CYS:N	2.66	0.47
1:D:246:MET:HE3	1:D:274:PHE:CD2	2.42	0.47
1:A:152:LEU:HD12	1:A:153:TRP:N	2.29	0.47
1:A:190:ARG:HG2	1:A:191:TRP:CE2	2.50	0.47
1:B:152:LEU:HD12	1:B:153:TRP:N	2.29	0.47
1:C:280:ASP:HA	1:C:281:GLU:HA	1.49	0.47
1:B:105:TYR:HD1	1:B:109:VAL:HG22	1.75	0.47
1:B:190:ARG:HG2	1:B:191:TRP:CE2	2.50	0.47
1:B:556:PHE:CD2	1:B:556:PHE:N	2.82	0.47
1:B:769:TRP:CZ3	1:B:774:LYS:HG2	2.38	0.47
1:B:948:PRO:HG2	1:B:949:HIS:CD2	2.50	0.47
1:A:556:PHE:CD2	1:A:556:PHE:N	2.82	0.47
1:C:23:GLN:CG	1:C:26:ARG:NE	2.64	0.47
1:A:23:GLN:CG	1:A:26:ARG:HH21	2.25	0.47
1:D:900:LEU:N	1:D:900:LEU:HD23	2.29	0.47
1:A:946:TYR:HH	1:A:982:THR:HG21	1.79	0.47
1:C:372:MET:HE3	1:C:397:LEU:HD23	1.93	0.47
1:A:407:LEU:H	1:A:407:LEU:HD12	1.80	0.47
1:A:385:ASN:O	1:A:407:LEU:CB	2.63	0.47
1:B:385:ASN:O	1:B:407:LEU:CB	2.63	0.47
1:D:350:LEU:HD21	1:D:553:TRP:HZ3	1.79	0.47
1:C:350:LEU:HD21	1:C:553:TRP:HZ3	1.79	0.47
1:C:232:ASN:OD1	1:C:237:ARG:N	2.47	0.47
1:D:232:ASN:OD1	1:D:237:ARG:N	2.47	0.47
1:C:524:LEU:CD1	1:C:562:LEU:HD13	2.41	0.47
1:C:505:ARG:HB2	1:C:508:GLU:O	2.15	0.47
1:A:740:LEU:HD23	1:A:834:VAL:HG13	1.96	0.47
1:B:740:LEU:HD23	1:B:834:VAL:HG13	1.96	0.47
1:C:950:GLN:HE21	1:C:952:ARG:HH21	1.62	0.47
1:D:950:GLN:HE21	1:D:952:ARG:HH21	1.62	0.47
1:D:143:PHE:O	1:D:168:PRO:HA	2.14	0.47
1:C:177:LEU:HD23	1:C:177:LEU:N	2.30	0.47
1:D:177:LEU:HD23	1:D:177:LEU:N	2.30	0.47
1:B:853:ARG:CG	1:B:853:ARG:NH1	2.73	0.47
1:A:853:ARG:NH1	1:A:853:ARG:CG	2.73	0.47
1:A:166:ARG:HA	1:A:166:ARG:HD3	1.61	0.47
1:A:35:SER:HB2	1:A:215:LEU:HD11	1.96	0.47
1:B:663:LEU:HD13	1:B:686:PRO:HB2	1.96	0.47
1:A:663:LEU:HD13	1:A:686:PRO:HB2	1.96	0.47
1:D:353:GLY:HA3	1:D:566:PHE:CD2	2.50	0.47
1:C:353:GLY:HA3	1:C:566:PHE:CD2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:190:ARG:HG2	1:D:191:TRP:CE2	2.50	0.47
1:D:53:SER:OG	1:D:55:ASN:HB2	2.15	0.47
1:D:372:MET:HE3	1:D:397:LEU:HD23	1.93	0.47
1:D:374:GLN:OE1	1:D:611:ARG:HG2	2.14	0.47
1:D:352:ARG:HB3	1:D:553:TRP:HZ2	1.79	0.47
1:B:350:LEU:HD21	1:B:553:TRP:HZ3	1.79	0.47
1:D:505:ARG:HB2	1:D:508:GLU:O	2.15	0.47
1:C:143:PHE:O	1:C:168:PRO:HA	2.14	0.47
1:B:277:GLU:OE2	1:B:290:THR:CB	2.60	0.47
1:C:439:ARG:HG3	1:C:439:ARG:HH11	1.79	0.47
1:B:145:GLY:CA	1:B:210:ARG:HB2	2.45	0.47
1:C:778:THR:HG23	1:C:779:PRO:HD2	1.95	0.47
1:C:828:ASP:OD2	1:D:830:LEU:CD2	2.49	0.47
1:D:747:PHE:HD1	1:D:760:ARG:HG3	1.79	0.47
1:D:776:LEU:HB3	1:D:888:LEU:HD23	1.96	0.47
1:D:849:LEU:CB	1:D:850:PHE:CD1	2.97	0.47
1:C:849:LEU:CB	1:C:850:PHE:CD1	2.97	0.47
1:B:824:GLN:CD	1:B:825:CYS:N	2.66	0.47
1:C:823:LEU:HD21	1:C:839:ALA:CB	2.25	0.47
1:A:970:THR:CG2	1:A:975:LEU:HB2	2.44	0.47
1:A:246:MET:HE2	1:A:274:PHE:CZ	2.50	0.47
1:C:190:ARG:HG2	1:C:191:TRP:CE2	2.50	0.47
1:C:53:SER:OG	1:C:55:ASN:HB2	2.15	0.47
1:C:92:MET:CA	1:C:92:MET:HE3	2.39	0.47
1:A:12:GLN:HE21	1:D:4:THR:CG2	2.20	0.47
1:B:12:GLN:HE21	1:C:4:THR:CG2	2.20	0.47
1:A:505:ARG:HB2	1:A:508:GLU:O	2.15	0.47
1:B:619:GLU:HB2	1:B:909:ARG:HD2	1.97	0.47
1:A:619:GLU:HB2	1:A:909:ARG:HD2	1.97	0.47
1:C:705:ALA:CB	1:C:710:GLU:HA	2.45	0.47
1:A:579:ASP:O	1:A:582:GLY:N	2.47	0.47
1:C:374:GLN:OE1	1:C:611:ARG:HG2	2.14	0.47
1:C:352:ARG:HB3	1:C:553:TRP:HZ2	1.79	0.47
1:D:524:LEU:CD1	1:D:562:LEU:HD13	2.41	0.47
1:C:866:ILE:C	1:C:1017:GLN:HG3	2.33	0.47
1:D:496:THR:HG23	1:D:496:THR:O	2.14	0.47
1:D:740:LEU:HD23	1:D:834:VAL:HG13	1.96	0.47
1:C:377:LEU:CD2	1:C:708:TRP:HA	2.43	0.47
1:A:277:GLU:OE2	1:A:290:THR:CB	2.60	0.47
1:B:166:ARG:HG3	1:B:392:TYR:CB	2.37	0.47
1:A:166:ARG:HG3	1:A:392:TYR:CB	2.36	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:35:SER:HB2	1:B:215:LEU:HD11	1.96	0.47
1:D:439:ARG:HH11	1:D:439:ARG:HG3	1.79	0.47
1:A:145:GLY:CA	1:A:210:ARG:HB2	2.45	0.47
1:C:776:LEU:HB3	1:C:888:LEU:HD23	1.96	0.47
1:B:778:THR:HG23	1:B:779:PRO:HD2	1.95	0.47
1:B:970:THR:CG2	1:B:975:LEU:HB2	2.44	0.47
1:C:873:ALA:HB3	1:C:876:THR:HG22	1.96	0.47
1:B:658:LEU:HD22	1:B:688:PRO:CG	2.45	0.47
1:A:230:ARG:HH12	1:A:241:GLU:CG	2.28	0.47
1:A:657:ALA:CA	1:A:662:PRO:CA	2.68	0.47
1:A:658:LEU:HD22	1:A:688:PRO:CG	2.45	0.47
1:D:92:MET:CA	1:D:92:MET:HE3	2.39	0.47
1:B:768:MET:CE	1:B:1020:TRP:CD2	2.92	0.47
1:A:783:GLN:HE21	1:A:881:ARG:CD	2.22	0.47
1:D:705:ALA:CB	1:D:710:GLU:HA	2.45	0.47
1:D:385:ASN:O	1:D:407:LEU:CB	2.63	0.47
1:B:579:ASP:O	1:B:582:GLY:N	2.47	0.47
1:A:453:VAL:HB	1:A:482:ARG:NH1	2.30	0.47
1:B:471:LEU:HD22	1:B:471:LEU:HA	1.78	0.47
1:B:505:ARG:HB2	1:B:508:GLU:O	2.15	0.47
1:B:521:LYS:HG2	1:B:559:TYR:OH	2.15	0.47
1:C:740:LEU:HD23	1:C:834:VAL:HG13	1.96	0.47
1:C:631:LEU:CD1	1:C:635:THR:O	2.51	0.47
1:A:880:ALA:O	1:A:991:MET:HB2	2.14	0.47
1:C:747:PHE:HD1	1:C:760:ARG:HG3	1.79	0.46
1:D:778:THR:HG23	1:D:779:PRO:HD2	1.95	0.46
1:B:764:PHE:HD1	1:B:781:ARG:HG3	1.50	0.46
1:D:730:LEU:HD23	1:D:730:LEU:HA	1.78	0.46
1:A:652:LEU:CD1	1:A:698:VAL:CG1	2.69	0.46
1:D:873:ALA:HB3	1:D:876:THR:HG22	1.96	0.46
1:B:657:ALA:CA	1:B:662:PRO:CA	2.68	0.46
1:B:230:ARG:HH12	1:B:241:GLU:CG	2.28	0.46
1:D:55:ASN:HD22	1:D:211:ASP:CG	2.08	0.46
1:C:55:ASN:HD22	1:C:211:ASP:CG	2.08	0.46
1:A:153:TRP:CD1	1:A:158:TRP:HA	2.51	0.46
1:A:391:HIS:N	1:A:391:HIS:ND1	2.60	0.46
1:B:153:TRP:CD1	1:B:158:TRP:HA	2.51	0.46
1:A:521:LYS:HG2	1:A:559:TYR:OH	2.15	0.46
1:D:23:GLN:CG	1:D:26:ARG:HH21	2.25	0.46
1:C:23:GLN:CG	1:C:26:ARG:HH21	2.25	0.46
1:D:73:TRP:CH2	1:D:122:CYS:SG	3.08	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:73:TRP:CH2	1:C:122:CYS:SG	3.08	0.46
1:D:535:LEU:HB2	1:D:565:GLY:HA3	1.97	0.46
1:B:601:PHE:CZ	1:B:998:SER:HB2	2.50	0.46
1:A:601:PHE:CZ	1:A:998:SER:HB2	2.51	0.46
1:C:922:LEU:HD12	1:C:922:LEU:C	2.35	0.46
1:C:385:ASN:O	1:C:407:LEU:CB	2.63	0.46
1:A:520:ILE:HG21	1:A:562:LEU:HD21	1.97	0.46
1:B:453:VAL:HB	1:B:482:ARG:NH1	2.30	0.46
1:A:350:LEU:CD2	1:A:641:GLU:OE2	2.61	0.46
1:D:866:ILE:C	1:D:1017:GLN:HG3	2.33	0.46
1:C:496:THR:O	1:C:496:THR:HG23	2.14	0.46
1:D:377:LEU:CD2	1:D:708:TRP:HA	2.43	0.46
1:D:631:LEU:CD1	1:D:635:THR:O	2.51	0.46
1:B:177:LEU:HD23	1:B:177:LEU:N	2.30	0.46
1:B:921:PRO:HG2	1:B:924:ASP:OD1	2.15	0.46
1:A:921:PRO:HG2	1:A:924:ASP:OD1	2.15	0.46
1:B:968:MET:HE2	1:B:968:MET:HB2	1.50	0.46
1:B:880:ALA:O	1:B:991:MET:HB2	2.14	0.46
1:B:842:TRP:CZ3	1:B:852:SER:HB3	2.50	0.46
1:D:140:ARG:HH21	1:D:217:LYS:HE2	1.80	0.46
1:B:873:ALA:HB3	1:B:876:THR:HG22	1.96	0.46
1:A:199:ASP:OD2	1:A:418:HIS:CB	2.64	0.46
1:A:460:ASN:HD22	1:A:461:GLU:N	2.14	0.46
1:B:199:ASP:OD2	1:B:418:HIS:CB	2.64	0.46
1:B:460:ASN:HD22	1:B:461:GLU:N	2.14	0.46
1:A:768:MET:CE	1:A:1020:TRP:CD2	2.92	0.46
1:D:23:GLN:CG	1:D:26:ARG:NE	2.64	0.46
1:C:535:LEU:HB2	1:C:565:GLY:HA3	1.97	0.46
1:D:550:ALA:HB2	1:D:623:GLN:NE2	2.27	0.46
1:D:556:PHE:HE1	1:D:565:GLY:N	2.13	0.46
1:C:22:THR:HA	1:C:163:GLN:CB	2.46	0.46
1:D:22:THR:HA	1:D:163:GLN:CB	2.46	0.46
1:D:922:LEU:C	1:D:922:LEU:HD12	2.35	0.46
1:D:705:ALA:HB1	1:D:710:GLU:HA	1.97	0.46
1:B:520:ILE:HG21	1:B:562:LEU:HD21	1.97	0.46
1:B:350:LEU:CD2	1:B:641:GLU:OE2	2.61	0.46
1:A:959:ILE:O	1:A:959:ILE:HG23	2.15	0.46
1:C:854:LYS:HB3	1:C:854:LYS:HE2	1.61	0.46
1:D:377:LEU:HD22	1:D:708:TRP:CA	2.44	0.46
1:C:377:LEU:HD22	1:C:708:TRP:CA	2.44	0.46
1:C:35:SER:HB2	1:C:215:LEU:HD11	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:842:TRP:CZ3	1:A:852:SER:HB3	2.50	0.46
1:B:462:SER:HB2	1:B:468:HIS:HE1	1.80	0.46
1:A:975:LEU:N	1:A:975:LEU:HD23	2.31	0.46
1:A:873:ALA:HB3	1:A:876:THR:HG22	1.96	0.46
1:D:118:ASN:N	1:D:118:ASN:ND2	2.60	0.46
1:A:190:ARG:HB2	1:A:206:SER:OG	2.15	0.46
1:B:107:ILE:HG21	1:B:191:TRP:CD2	2.50	0.46
1:D:395:HIS:ND1	1:D:396:PRO:N	2.61	0.46
1:A:73:TRP:CH2	1:A:122:CYS:SG	3.08	0.46
1:C:500:CYS:HB2	1:C:536:CYS:HG	1.76	0.46
1:C:550:ALA:HB2	1:C:623:GLN:NE2	2.27	0.46
1:C:705:ALA:HB1	1:C:710:GLU:HA	1.97	0.46
1:A:656:VAL:HG22	1:A:696:LEU:CD1	2.45	0.46
1:B:656:VAL:HG22	1:B:696:LEU:CD1	2.45	0.46
1:D:656:VAL:HG22	1:D:696:LEU:CD1	2.44	0.46
1:B:959:ILE:O	1:B:959:ILE:HG23	2.15	0.46
1:D:44:THR:O	1:D:45:ASP:CB	2.63	0.46
1:C:44:THR:O	1:C:45:ASP:CB	2.63	0.46
1:C:655:MET:HE1	1:C:699:ARG:HH12	1.78	0.46
1:A:816:TYR:CE2	1:A:968:MET:HE3	2.44	0.46
1:C:830:LEU:CD2	1:D:828:ASP:OD2	2.49	0.46
1:A:776:LEU:HB3	1:A:888:LEU:HD23	1.96	0.46
1:A:462:SER:HB2	1:A:468:HIS:HE1	1.81	0.46
1:B:730:LEU:HA	1:B:730:LEU:HD23	1.78	0.46
1:C:140:ARG:HH21	1:C:217:LYS:HE2	1.80	0.46
1:C:33:PHE:N	1:C:33:PHE:CD1	2.73	0.46
1:C:971:SER:OG	1:C:972:HIS:CE1	2.64	0.46
1:B:975:LEU:HD23	1:B:975:LEU:N	2.30	0.46
1:D:692:GLY:H	1:D:725:ASN:HB3	1.80	0.46
1:C:692:GLY:H	1:C:725:ASN:HB3	1.80	0.46
1:D:91:GLN:NE2	1:D:190:ARG:NH2	2.63	0.46
1:C:91:GLN:NE2	1:C:190:ARG:NH2	2.63	0.46
1:A:107:ILE:HG21	1:A:191:TRP:CD2	2.50	0.46
1:B:190:ARG:HB2	1:B:206:SER:OG	2.15	0.46
1:B:391:HIS:ND1	1:B:391:HIS:N	2.60	0.46
1:B:89:ASN:HD22	1:B:365:GLN:H	1.62	0.46
1:C:556:PHE:HE1	1:C:565:GLY:N	2.14	0.46
1:C:550:ALA:CA	1:C:623:GLN:HE22	2.20	0.46
1:B:16:TRP:O	1:B:193:ASP:CA	2.62	0.46
1:A:18:ASN:HD22	1:A:21:VAL:H	1.63	0.46
1:A:623:GLN:HA	1:A:623:GLN:OE1	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:22:THR:HA	1:B:163:GLN:CB	2.46	0.46
1:A:22:THR:HA	1:A:163:GLN:CB	2.46	0.46
1:B:783:GLN:HE21	1:B:881:ARG:CD	2.22	0.46
1:D:999:TRP:N	1:D:999:TRP:CE3	2.83	0.46
1:C:619:GLU:HB2	1:C:909:ARG:HD2	1.97	0.46
1:A:999:TRP:CE3	1:A:999:TRP:N	2.83	0.46
1:A:626:PHE:CB	1:A:641:GLU:CB	2.62	0.46
1:C:440:VAL:CG1	1:C:458:LEU:CD2	2.92	0.46
1:D:230:ARG:HH12	1:D:241:GLU:CG	2.28	0.46
1:D:835:LEU:O	1:D:836:ILE:HD13	2.13	0.46
1:A:740:LEU:CD2	1:A:829:THR:OG1	2.61	0.46
1:B:306:PRO:HG3	1:B:404:ARG:O	2.12	0.46
1:A:177:LEU:HD23	1:A:177:LEU:N	2.30	0.46
1:B:816:TYR:CE2	1:B:968:MET:HE3	2.44	0.46
1:D:35:SER:OG	1:D:216:HIS:O	2.18	0.46
1:D:35:SER:HB2	1:D:215:LEU:HD11	1.96	0.46
1:B:776:LEU:HB3	1:B:888:LEU:HD23	1.96	0.46
1:C:359:HIS:H	1:C:367:MET:HE1	1.72	0.46
1:C:224:ASP:HB3	1:C:245:GLN:HE21	1.79	0.46
1:D:971:SER:OG	1:D:972:HIS:CE1	2.64	0.46
1:C:657:ALA:HA	1:C:661:LYS:O	2.16	0.46
1:B:692:GLY:H	1:B:725:ASN:HB3	1.80	0.46
1:B:230:ARG:O	1:B:239:VAL:N	2.46	0.46
1:D:12:GLN:O	1:D:12:GLN:HG3	2.14	0.46
1:C:107:ILE:HG21	1:C:191:TRP:CD2	2.50	0.46
1:B:105:TYR:CE1	1:B:419:GLY:HA3	2.50	0.46
1:C:395:HIS:ND1	1:C:396:PRO:N	2.61	0.46
1:B:73:TRP:CH2	1:B:122:CYS:SG	3.08	0.46
1:B:18:ASN:HD22	1:B:21:VAL:H	1.63	0.46
1:A:16:TRP:O	1:A:193:ASP:CA	2.62	0.46
1:C:807:VAL:HG13	1:C:808:GLU:N	2.30	0.46
1:B:623:GLN:OE1	1:B:623:GLN:HA	2.15	0.46
1:B:807:VAL:HG13	1:B:808:GLU:N	2.30	0.46
1:D:619:GLU:HB2	1:D:909:ARG:HD2	1.97	0.46
1:C:999:TRP:CE3	1:C:999:TRP:N	2.83	0.46
1:C:900:LEU:CB	1:C:905:ASN:ND2	2.79	0.46
1:D:900:LEU:CB	1:D:905:ASN:ND2	2.79	0.46
1:B:705:ALA:CB	1:B:710:GLU:HA	2.45	0.46
1:A:579:ASP:CG	1:A:583:ASN:OD1	2.53	0.46
1:D:440:VAL:CG1	1:D:458:LEU:CD2	2.92	0.46
1:A:968:MET:HB2	1:A:968:MET:HE2	1.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:649:ASN:ND2	1:B:704:ASN:OD1	2.49	0.46
1:A:764:PHE:HD1	1:A:781:ARG:HG3	1.50	0.46
1:D:224:ASP:HB3	1:D:245:GLN:HE21	1.79	0.46
1:D:246:MET:CE	1:D:274:PHE:CZ	2.96	0.46
1:C:730:LEU:HD23	1:C:730:LEU:HA	1.78	0.46
1:D:657:ALA:HA	1:D:661:LYS:O	2.16	0.46
1:D:658:LEU:HD22	1:D:688:PRO:HG3	1.98	0.46
1:D:107:ILE:HG21	1:D:191:TRP:CD2	2.50	0.46
1:D:190:ARG:HB2	1:D:206:SER:OG	2.15	0.46
1:A:285:TYR:CD1	1:D:422:PRO:HG3	2.50	0.46
1:C:573:GLN:H	1:C:603:MET:CA	2.23	0.46
1:A:105:TYR:CE1	1:A:419:GLY:HA3	2.50	0.46
1:D:550:ALA:CA	1:D:623:GLN:HE22	2.20	0.46
1:D:807:VAL:HG13	1:D:808:GLU:N	2.30	0.46
1:A:807:VAL:HG13	1:A:808:GLU:N	2.30	0.46
1:D:37:ARG:NH2	1:D:218:PRO:HD3	2.30	0.46
1:C:37:ARG:NH2	1:C:218:PRO:HD3	2.30	0.46
1:A:705:ALA:CB	1:A:710:GLU:HA	2.45	0.46
1:B:352:ARG:HB3	1:B:553:TRP:HZ2	1.79	0.46
1:A:352:ARG:HB3	1:A:553:TRP:HZ2	1.79	0.46
1:C:656:VAL:HG22	1:C:696:LEU:CD1	2.44	0.46
1:A:719:GLN:HE22	1:A:915:PHE:N	2.14	0.46
1:C:230:ARG:HH12	1:C:241:GLU:CG	2.28	0.46
1:C:258:VAL:CG2	1:C:291:LEU:HD12	2.44	0.46
1:D:258:VAL:CG2	1:D:291:LEU:HD12	2.44	0.46
1:C:521:LYS:HG2	1:C:559:TYR:OH	2.15	0.46
1:C:835:LEU:O	1:C:836:ILE:HD13	2.13	0.46
1:B:474:TRP:O	1:B:478:VAL:HG13	2.16	0.46
1:B:740:LEU:CD2	1:B:829:THR:OG1	2.61	0.46
1:A:306:PRO:HG3	1:A:404:ARG:O	2.12	0.46
1:A:906:TYR:OH	1:A:934:GLU:CD	2.51	0.46
1:C:771:GLY:CA	1:C:772:ASP:CB	2.85	0.46
1:A:649:ASN:ND2	1:A:704:ASN:OD1	2.49	0.46
1:C:970:THR:HG21	1:C:976:LEU:HD21	1.95	0.46
1:B:652:LEU:CD1	1:B:698:VAL:CG1	2.69	0.46
1:A:230:ARG:O	1:A:239:VAL:N	2.46	0.46
1:A:692:GLY:H	1:A:725:ASN:HB3	1.80	0.46
1:C:190:ARG:HB2	1:C:206:SER:OG	2.15	0.46
1:A:89:ASN:HD22	1:A:365:GLN:H	1.62	0.46
1:A:573:GLN:H	1:A:603:MET:CA	2.23	0.46
1:D:556:PHE:HD2	1:D:556:PHE:N	2.12	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:579:ASP:CG	1:B:583:ASN:OD1	2.53	0.46
1:B:440:VAL:CG2	1:B:471:LEU:HD11	2.38	0.46
1:C:232:ASN:OD1	1:C:237:ARG:CA	2.64	0.46
1:D:232:ASN:OD1	1:D:237:ARG:CA	2.64	0.46
1:C:520:ILE:HG21	1:C:562:LEU:HD21	1.97	0.46
1:D:520:ILE:HG21	1:D:562:LEU:HD21	1.97	0.46
1:B:719:GLN:HE22	1:B:915:PHE:N	2.14	0.46
1:D:521:LYS:HG2	1:D:559:TYR:OH	2.15	0.46
1:D:474:TRP:O	1:D:478:VAL:HG13	2.16	0.46
1:A:474:TRP:O	1:A:478:VAL:HG13	2.16	0.46
1:C:145:GLY:CA	1:C:210:ARG:HB2	2.45	0.46
1:C:178:ARG:CZ	1:C:182:ASN:HA	2.46	0.46
1:D:178:ARG:CZ	1:D:182:ASN:HA	2.46	0.46
1:A:730:LEU:HA	1:A:730:LEU:HD23	1.78	0.46
1:C:246:MET:CE	1:C:274:PHE:CZ	2.96	0.46
1:C:658:LEU:HD22	1:C:688:PRO:HG3	1.98	0.46
1:B:658:LEU:HD22	1:B:688:PRO:HG3	1.98	0.46
1:D:460:ASN:HD22	1:D:461:GLU:N	2.14	0.46
1:D:573:GLN:H	1:D:603:MET:CA	2.23	0.46
1:B:285:TYR:CD1	1:C:422:PRO:HG3	2.51	0.46
1:C:12:GLN:HG3	1:C:12:GLN:O	2.14	0.46
1:A:23:GLN:CG	1:A:26:ARG:NE	2.64	0.46
1:C:959:ILE:O	1:C:959:ILE:HG23	2.15	0.46
1:C:474:TRP:O	1:C:478:VAL:HG13	2.16	0.46
1:D:649:ASN:ND2	1:D:704:ASN:OD1	2.49	0.46
1:C:649:ASN:ND2	1:C:704:ASN:OD1	2.49	0.46
1:D:145:GLY:CA	1:D:210:ARG:HB2	2.45	0.46
1:A:43:ARG:HE	1:A:43:ARG:HB3	1.63	0.46
1:C:178:ARG:CZ	1:C:181:GLU:O	2.60	0.46
1:A:434:PRO:O	1:A:437:SER:OG	2.34	0.46
1:B:434:PRO:O	1:B:437:SER:OG	2.34	0.46
1:C:36:TRP:NE1	1:C:42:ALA:N	2.64	0.46
1:D:636:ILE:HD12	1:D:698:VAL:HG21	1.97	0.46
1:D:33:PHE:N	1:D:33:PHE:CD1	2.73	0.46
1:D:36:TRP:NE1	1:D:42:ALA:N	2.64	0.46
1:C:975:LEU:HD23	1:C:975:LEU:N	2.31	0.46
1:B:254:LEU:O	1:B:255:ARG:HD2	2.16	0.46
1:A:658:LEU:HD22	1:A:688:PRO:HG3	1.98	0.46
1:C:89:ASN:HD22	1:C:365:GLN:H	1.62	0.46
1:B:573:GLN:H	1:B:603:MET:CA	2.23	0.46
1:C:556:PHE:N	1:C:556:PHE:HD2	2.12	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:503:TYR:CE1	1:D:999:TRP:CZ2	3.04	0.46
1:B:503:TYR:CE1	1:B:999:TRP:CZ2	3.04	0.46
1:A:503:TYR:CE1	1:A:999:TRP:CZ2	3.04	0.46
1:D:385:ASN:O	1:D:407:LEU:HA	2.16	0.46
1:B:626:PHE:CB	1:B:641:GLU:CB	2.62	0.46
1:D:959:ILE:HG23	1:D:959:ILE:O	2.15	0.46
1:C:485:GLN:HA	1:C:496:THR:OG1	2.15	0.46
1:C:723:ALA:HB2	1:D:875:ASP:CG	2.30	0.46
1:D:906:TYR:OH	1:D:934:GLU:CD	2.51	0.46
1:A:795:VAL:CG1	1:A:795:VAL:O	2.64	0.46
1:D:178:ARG:CZ	1:D:181:GLU:O	2.60	0.46
1:C:225:PHE:HB2	1:C:244:VAL:HG22	1.98	0.46
1:C:254:LEU:O	1:C:255:ARG:HD2	2.16	0.46
1:D:225:PHE:HB2	1:D:244:VAL:HG22	1.98	0.46
1:C:636:ILE:HD12	1:C:698:VAL:HG21	1.97	0.46
1:D:824:GLN:CD	1:D:825:CYS:N	2.66	0.46
1:C:824:GLN:CD	1:C:825:CYS:N	2.66	0.46
1:D:970:THR:HG21	1:D:976:LEU:HD21	1.95	0.46
1:D:975:LEU:HD23	1:D:975:LEU:N	2.31	0.46
1:A:254:LEU:O	1:A:255:ARG:HD2	2.16	0.46
1:D:199:ASP:OD2	1:D:418:HIS:CB	2.64	0.46
1:C:460:ASN:HD22	1:C:461:GLU:N	2.14	0.46
1:C:767:GLN:HE22	1:C:774:LYS:HB3	1.78	0.46
1:C:503:TYR:CE1	1:C:999:TRP:CZ2	3.04	0.46
1:C:385:ASN:O	1:C:407:LEU:HA	2.16	0.46
1:C:407:LEU:HD12	1:C:407:LEU:H	1.80	0.46
1:A:458:LEU:HD21	1:A:475:ILE:HD12	1.98	0.46
1:B:458:LEU:HD21	1:B:475:ILE:HD12	1.98	0.46
1:C:719:GLN:HE22	1:C:915:PHE:N	2.14	0.46
1:D:485:GLN:HA	1:D:496:THR:OG1	2.15	0.46
1:D:854:LYS:HB3	1:D:854:LYS:HE2	1.61	0.46
1:D:474:TRP:CZ3	1:D:478:VAL:CG2	2.87	0.46
1:B:655:MET:HA	1:B:665:SER:HA	1.96	0.46
1:B:787:ALA:HB3	1:B:934:GLU:N	2.31	0.46
1:A:787:ALA:HB3	1:A:934:GLU:N	2.31	0.46
1:D:771:GLY:CA	1:D:772:ASP:CB	2.85	0.46
1:B:795:VAL:CG1	1:B:795:VAL:O	2.64	0.46
1:A:629:PHE:CB	1:A:720:TRP:CH2	2.98	0.46
1:D:987:ASP:OD2	1:D:989:PHE:C	2.54	0.46
1:B:987:ASP:OD2	1:B:989:PHE:C	2.54	0.46
1:C:462:SER:HB2	1:C:468:HIS:HE1	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:462:SER:HB2	1:D:468:HIS:HE1	1.81	0.45
1:C:824:GLN:NE2	1:C:825:CYS:O	2.33	0.45
1:B:225:PHE:HB2	1:B:244:VAL:HG22	1.98	0.45
1:D:89:ASN:HD22	1:D:365:GLN:H	1.62	0.45
1:C:199:ASP:OD2	1:C:418:HIS:CB	2.64	0.45
1:C:73:TRP:HE1	1:C:183:ARG:NH2	2.07	0.45
1:B:23:GLN:CG	1:B:26:ARG:NE	2.64	0.45
1:B:783:GLN:N	1:B:883:GLY:O	2.24	0.45
1:B:999:TRP:CE3	1:B:999:TRP:N	2.83	0.45
1:B:37:ARG:NH2	1:B:218:PRO:HD3	2.30	0.45
1:D:407:LEU:H	1:D:407:LEU:HD12	1.80	0.45
1:A:440:VAL:CG2	1:A:471:LEU:HD11	2.38	0.45
1:D:719:GLN:HE22	1:D:915:PHE:N	2.14	0.45
1:D:915:PHE:HE1	1:D:942:ARG:HG2	1.80	0.45
1:B:232:ASN:OD1	1:B:237:ARG:CA	2.64	0.45
1:C:453:VAL:HB	1:C:482:ARG:NH1	2.30	0.45
1:B:478:VAL:CG2	1:B:479:ASP:N	2.79	0.45
1:C:474:TRP:CZ3	1:C:478:VAL:CG2	2.87	0.45
1:A:655:MET:HA	1:A:665:SER:HA	1.96	0.45
1:B:718:GLN:CG	1:B:720:TRP:CZ2	2.99	0.45
1:C:987:ASP:OD2	1:C:989:PHE:C	2.54	0.45
1:A:987:ASP:OD2	1:A:989:PHE:C	2.54	0.45
1:A:353:GLY:HA3	1:A:566:PHE:CD2	2.50	0.45
1:D:254:LEU:O	1:D:255:ARG:HD2	2.16	0.45
1:B:246:MET:CE	1:B:274:PHE:CZ	2.96	0.45
1:A:225:PHE:HB2	1:A:244:VAL:HG22	1.98	0.45
1:C:197:LEU:HD22	1:C:197:LEU:HA	1.85	0.45
1:A:422:PRO:HG3	1:D:285:TYR:CD1	2.52	0.45
1:D:73:TRP:HE1	1:D:183:ARG:NH2	2.07	0.45
1:D:623:GLN:HA	1:D:623:GLN:OE1	2.15	0.45
1:A:37:ARG:NH2	1:A:218:PRO:HD3	2.30	0.45
1:C:541:ALA:CA	1:C:545:SER:CB	2.91	0.45
1:C:915:PHE:HE1	1:C:942:ARG:HG2	1.80	0.45
1:C:866:ILE:O	1:C:1017:GLN:CG	2.50	0.45
1:A:232:ASN:OD1	1:A:237:ARG:CA	2.64	0.45
1:D:453:VAL:HB	1:D:482:ARG:NH1	2.30	0.45
1:A:478:VAL:CG2	1:A:479:ASP:N	2.79	0.45
1:D:276:GLY:O	1:D:277:GLU:OE1	2.34	0.45
1:B:906:TYR:OH	1:B:934:GLU:CD	2.52	0.45
1:C:906:TYR:OH	1:C:934:GLU:CD	2.51	0.45
1:B:629:PHE:CB	1:B:720:TRP:CH2	2.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:718:GLN:CG	1:A:720:TRP:CZ2	2.99	0.45
1:B:43:ARG:HE	1:B:43:ARG:HB3	1.63	0.45
1:B:353:GLY:HA3	1:B:566:PHE:CD2	2.50	0.45
1:A:971:SER:OG	1:A:972:HIS:CE1	2.64	0.45
1:A:246:MET:CE	1:A:274:PHE:CZ	2.96	0.45
1:B:258:VAL:CG2	1:B:291:LEU:HD12	2.44	0.45
1:D:390:SER:HA	1:D:391:HIS:HA	1.53	0.45
1:C:105:TYR:CE1	1:C:419:GLY:HA3	2.50	0.45
1:B:202:MET:N	1:B:202:MET:HE2	2.31	0.45
1:B:422:PRO:HG3	1:C:285:TYR:CD1	2.52	0.45
1:D:767:GLN:HE22	1:D:774:LYS:HB3	1.78	0.45
1:D:900:LEU:HB3	1:D:913:ALA:CB	2.44	0.45
1:A:892:ALA:CB	1:A:946:TYR:CE1	2.66	0.45
1:A:385:ASN:O	1:A:407:LEU:HA	2.16	0.45
1:A:354:VAL:O	1:A:354:VAL:HG13	2.16	0.45
1:A:375:ASP:OD1	1:A:570:TRP:CD1	2.64	0.45
1:C:875:ASP:CG	1:D:723:ALA:HB2	2.30	0.45
1:C:276:GLY:O	1:C:277:GLU:OE1	2.34	0.45
1:B:971:SER:OG	1:B:972:HIS:CE1	2.64	0.45
1:B:251:ARG:NH1	1:B:251:ARG:CG	2.73	0.45
1:A:254:LEU:HD12	1:A:254:LEU:C	2.36	0.45
1:D:91:GLN:HB2	1:D:205:MET:HG2	1.99	0.45
1:D:105:TYR:CE1	1:D:419:GLY:HA3	2.50	0.45
1:C:153:TRP:CD1	1:C:158:TRP:HA	2.50	0.45
1:C:623:GLN:OE1	1:C:623:GLN:HA	2.15	0.45
1:D:541:ALA:CA	1:D:545:SER:CB	2.91	0.45
1:C:900:LEU:HB3	1:C:913:ALA:CB	2.44	0.45
1:B:892:ALA:CB	1:B:946:TYR:CE1	2.66	0.45
1:D:50:GLN:HE21	1:D:50:GLN:N	2.14	0.45
1:B:385:ASN:O	1:B:407:LEU:HA	2.16	0.45
1:B:354:VAL:HG13	1:B:354:VAL:O	2.17	0.45
1:A:485:GLN:HA	1:A:496:THR:OG1	2.15	0.45
1:C:529:GLU:C	1:C:561:ARG:HH22	2.20	0.45
1:D:529:GLU:C	1:D:561:ARG:HH22	2.20	0.45
1:D:842:TRP:CZ3	1:D:852:SER:HB3	2.50	0.45
1:B:672:VAL:HG22	1:B:678:GLN:OE1	2.17	0.45
1:A:672:VAL:HG22	1:A:678:GLN:OE1	2.17	0.45
1:B:343:LEU:HD21	1:B:347:LYS:C	2.30	0.45
1:A:44:THR:O	1:A:45:ASP:CB	2.63	0.45
1:C:779:PRO:HG2	1:C:781:ARG:HH12	1.76	0.45
1:C:254:LEU:HD12	1:C:254:LEU:C	2.36	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:251:ARG:NH1	1:A:251:ARG:CG	2.73	0.45
1:A:723:ALA:HA	1:B:875:ASP:HB2	1.95	0.45
1:C:91:GLN:HB2	1:C:205:MET:HG2	1.99	0.45
1:A:10:VAL:HG13	1:A:11:LEU:N	2.32	0.45
1:B:10:VAL:HG13	1:B:11:LEU:N	2.32	0.45
1:B:202:MET:HB2	1:B:573:GLN:HE22	1.82	0.45
1:B:550:ALA:HB2	1:B:623:GLN:NE2	2.27	0.45
1:C:50:GLN:HE21	1:C:50:GLN:N	2.14	0.45
1:C:354:VAL:HG13	1:C:379:MET:HE1	1.98	0.45
1:D:354:VAL:HG13	1:D:379:MET:HE1	1.98	0.45
1:B:456:TRP:NE1	1:B:482:ARG:CD	2.70	0.45
1:B:485:GLN:HA	1:B:496:THR:OG1	2.15	0.45
1:D:497:ASP:O	1:D:531:ARG:CD	2.65	0.45
1:C:497:ASP:O	1:C:531:ARG:CD	2.65	0.45
1:B:670:LEU:HD11	1:B:672:VAL:HG21	1.99	0.45
1:C:672:VAL:HG22	1:C:678:GLN:OE1	2.17	0.45
1:D:672:VAL:HG22	1:D:678:GLN:OE1	2.17	0.45
1:A:343:LEU:HD21	1:A:347:LYS:C	2.31	0.45
1:A:771:GLY:CA	1:A:772:ASP:CB	2.85	0.45
1:B:701:VAL:CG1	1:B:713:HIS:O	2.64	0.45
1:A:701:VAL:CG1	1:A:713:HIS:O	2.64	0.45
1:C:842:TRP:CZ3	1:C:852:SER:HB3	2.50	0.45
1:A:178:ARG:CZ	1:A:181:GLU:O	2.60	0.45
1:A:178:ARG:NH1	1:A:182:ASN:OD1	2.49	0.45
1:B:178:ARG:CZ	1:B:181:GLU:O	2.60	0.45
1:C:140:ARG:NH2	1:C:217:LYS:CE	2.79	0.45
1:D:254:LEU:C	1:D:254:LEU:HD12	2.36	0.45
1:D:824:GLN:NE2	1:D:825:CYS:O	2.33	0.45
1:B:974:HIS:ND1	1:B:975:LEU:CD2	2.66	0.45
1:B:246:MET:HE3	1:B:254:LEU:HD11	1.99	0.45
1:B:254:LEU:HD12	1:B:254:LEU:C	2.36	0.45
1:A:36:TRP:NE1	1:A:42:ALA:N	2.64	0.45
1:D:153:TRP:CD1	1:D:158:TRP:HA	2.51	0.45
1:D:197:LEU:HD22	1:D:197:LEU:HA	1.85	0.45
1:C:90:TRP:HE1	1:C:96:ASP:HB2	1.80	0.45
1:A:202:MET:HB2	1:A:573:GLN:HE22	1.82	0.45
1:B:535:LEU:HB2	1:B:565:GLY:HA3	1.97	0.45
1:A:50:GLN:N	1:A:50:GLN:HE21	2.14	0.45
1:A:497:ASP:O	1:A:531:ARG:CD	2.65	0.45
1:A:875:ASP:CG	1:B:723:ALA:HB2	2.31	0.45
1:A:670:LEU:HD11	1:A:672:VAL:HG21	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:63:PHE:HB3	1:A:64:PRO:HD2	1.97	0.45
1:B:63:PHE:HB3	1:B:64:PRO:HD2	1.97	0.45
1:D:63:PHE:HB3	1:D:64:PRO:HD2	1.97	0.45
1:C:63:PHE:HB3	1:C:64:PRO:HD2	1.97	0.45
1:B:44:THR:O	1:B:45:ASP:CB	2.63	0.45
1:D:701:VAL:CG1	1:D:713:HIS:O	2.64	0.45
1:C:701:VAL:CG1	1:C:713:HIS:O	2.64	0.45
1:B:761:GLN:OE1	1:B:761:GLN:HA	2.17	0.45
1:A:761:GLN:OE1	1:A:761:GLN:HA	2.17	0.45
1:C:178:ARG:NH1	1:C:182:ASN:OD1	2.49	0.45
1:D:178:ARG:NH1	1:D:182:ASN:OD1	2.49	0.45
1:B:178:ARG:NH1	1:B:182:ASN:OD1	2.49	0.45
1:C:822:LEU:HA	1:C:840:HIS:HD2	1.81	0.45
1:A:827:ALA:O	1:A:828:ASP:OD1	2.35	0.45
1:B:827:ALA:O	1:B:828:ASP:OD1	2.35	0.45
1:D:140:ARG:NH2	1:D:217:LYS:CE	2.79	0.45
1:B:36:TRP:NE1	1:B:42:ALA:N	2.64	0.45
1:D:90:TRP:HE1	1:D:96:ASP:HB2	1.80	0.45
1:D:203:TRP:CD2	1:D:575:LEU:CD1	3.00	0.45
1:C:203:TRP:CD2	1:C:575:LEU:CD1	3.00	0.45
1:B:900:LEU:HB3	1:B:913:ALA:CB	2.44	0.45
1:A:783:GLN:N	1:A:883:GLY:O	2.24	0.45
1:B:203:TRP:CE3	1:B:575:LEU:HD11	2.52	0.45
1:A:203:TRP:CE3	1:A:575:LEU:HD11	2.52	0.45
1:B:455:ILE:CG2	1:B:456:TRP:N	2.79	0.45
1:B:497:ASP:O	1:B:531:ARG:CD	2.65	0.45
1:A:915:PHE:HE1	1:A:942:ARG:HG2	1.80	0.45
1:D:866:ILE:O	1:D:1017:GLN:CG	2.50	0.45
1:A:875:ASP:HB2	1:B:723:ALA:HA	1.95	0.45
1:D:230:ARG:O	1:D:238:ALA:HA	2.16	0.45
1:B:870:VAL:HG21	1:B:882:ILE:CG2	2.47	0.45
1:A:870:VAL:HG21	1:A:882:ILE:CG2	2.47	0.45
1:C:501:PRO:HG3	1:C:533:LEU:HD11	1.99	0.45
1:D:501:PRO:HG3	1:D:533:LEU:HD11	1.99	0.45
1:A:439:ARG:HG3	1:A:439:ARG:HH11	1.79	0.45
1:B:439:ARG:HG3	1:B:439:ARG:HH11	1.79	0.45
1:A:746:ASP:OD2	1:A:757:GLN:CG	2.60	0.45
1:A:747:PHE:CD1	1:A:760:ARG:CG	3.00	0.45
1:B:747:PHE:CD1	1:B:760:ARG:CG	3.00	0.45
1:C:390:SER:HA	1:C:391:HIS:HA	1.53	0.45
1:A:573:GLN:N	1:A:603:MET:HA	2.25	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:535:LEU:HB2	1:A:565:GLY:HA3	1.97	0.45
1:D:341:LEU:CD2	1:D:563:GLN:HE21	2.28	0.45
1:B:16:TRP:O	1:B:193:ASP:CG	2.51	0.45
1:A:550:ALA:HB2	1:A:623:GLN:NE2	2.27	0.45
1:C:400:THR:HG22	1:C:404:ARG:HH12	1.82	0.45
1:D:400:THR:HG22	1:D:404:ARG:HH12	1.82	0.45
1:B:375:ASP:OD1	1:B:570:TRP:CD1	2.64	0.45
1:C:354:VAL:O	1:C:354:VAL:HG13	2.16	0.45
1:D:354:VAL:HG13	1:D:354:VAL:O	2.16	0.45
1:B:915:PHE:HE1	1:B:942:ARG:HG2	1.80	0.45
1:D:718:GLN:CG	1:D:720:TRP:CZ2	2.99	0.45
1:C:718:GLN:CG	1:C:720:TRP:CZ2	2.99	0.45
1:C:43:ARG:HE	1:C:43:ARG:HB3	1.63	0.45
1:D:822:LEU:HA	1:D:840:HIS:HD2	1.81	0.45
1:A:251:ARG:NH1	1:A:251:ARG:HG3	2.24	0.45
1:B:657:ALA:HA	1:B:661:LYS:O	2.16	0.45
1:B:230:ARG:O	1:B:238:ALA:HA	2.16	0.45
1:D:572:ASP:CG	1:D:603:MET:CE	2.79	0.45
1:D:90:TRP:O	1:D:93:HIS:HB2	2.17	0.45
1:A:515:VAL:HG22	1:D:280:ASP:CB	2.36	0.45
1:B:202:MET:H	1:B:202:MET:HE3	1.81	0.45
1:B:573:GLN:N	1:B:603:MET:HA	2.25	0.45
1:A:900:LEU:HB3	1:A:913:ALA:CB	2.44	0.45
1:B:588:TYR:CD1	1:B:588:TYR:O	2.70	0.45
1:A:588:TYR:O	1:A:588:TYR:CD1	2.70	0.45
1:A:541:ALA:CA	1:A:545:SER:CB	2.91	0.45
1:A:601:PHE:HE1	1:A:998:SER:CB	2.29	0.45
1:B:612:THR:HG22	1:B:613:PRO:N	2.32	0.45
1:A:455:ILE:CG2	1:A:456:TRP:N	2.79	0.45
1:A:456:TRP:NE1	1:A:482:ARG:CD	2.70	0.45
1:A:476:LYS:HD2	1:A:476:LYS:HA	1.77	0.45
1:C:472:TYR:CE1	1:C:497:ASP:OD1	2.70	0.45
1:B:771:GLY:CA	1:B:772:ASP:CB	2.85	0.45
1:D:795:VAL:CG1	1:D:795:VAL:O	2.64	0.45
1:C:668:VAL:CG1	1:C:669:PRO:HD2	2.46	0.45
1:D:779:PRO:HG2	1:D:781:ARG:HH12	1.76	0.45
1:B:822:LEU:HA	1:B:840:HIS:HD2	1.81	0.45
1:C:251:ARG:HD3	1:C:251:ARG:HA	1.59	0.45
1:C:36:TRP:HE1	1:C:42:ALA:HB2	0.38	0.45
1:D:251:ARG:HD3	1:D:251:ARG:HA	1.59	0.45
1:A:974:HIS:ND1	1:A:975:LEU:CD2	2.66	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:230:ARG:O	1:A:238:ALA:HA	2.17	0.45
1:C:90:TRP:O	1:C:93:HIS:HB2	2.17	0.45
1:B:91:GLN:HB2	1:B:205:MET:HG2	1.99	0.45
1:C:341:LEU:CD2	1:C:563:GLN:HE21	2.28	0.45
1:A:16:TRP:O	1:A:193:ASP:CG	2.51	0.45
1:B:601:PHE:HE1	1:B:998:SER:CB	2.29	0.45
1:A:612:THR:HG22	1:A:613:PRO:N	2.32	0.45
1:C:908:ASP:OD1	1:C:1007:PHE:CE1	2.53	0.45
1:D:472:TYR:CE1	1:D:497:ASP:OD1	2.70	0.45
1:C:230:ARG:O	1:C:238:ALA:HA	2.17	0.45
1:B:86:VAL:HA	1:B:87:PRO:C	2.37	0.45
1:A:301:TRP:HA	1:A:306:PRO:O	2.17	0.45
1:B:301:TRP:HA	1:B:306:PRO:O	2.17	0.45
1:A:523:TRP:HD1	1:A:523:TRP:O	2.00	0.45
1:B:523:TRP:HD1	1:B:523:TRP:O	2.00	0.45
1:D:668:VAL:CG1	1:D:669:PRO:HD2	2.46	0.45
1:B:746:ASP:OD2	1:B:757:GLN:CG	2.60	0.44
1:D:30:HIS:HD2	1:D:33:PHE:CE2	2.29	0.44
1:A:250:LEU:HD11	1:A:287:ASP:HB3	1.98	0.44
1:A:258:VAL:CG2	1:A:291:LEU:HD12	2.44	0.44
1:A:657:ALA:HA	1:A:661:LYS:O	2.16	0.44
1:A:723:ALA:HB2	1:B:875:ASP:CG	2.31	0.44
1:D:86:VAL:HA	1:D:87:PRO:C	2.37	0.44
1:A:91:GLN:HB2	1:A:205:MET:HG2	1.99	0.44
1:A:556:PHE:HE1	1:A:565:GLY:N	2.14	0.44
1:A:529:GLU:C	1:A:561:ARG:HH22	2.20	0.44
1:B:524:LEU:HD12	1:B:562:LEU:CD1	2.40	0.44
1:D:478:VAL:CG2	1:D:479:ASP:N	2.79	0.44
1:A:400:THR:HG22	1:A:404:ARG:HH12	1.82	0.44
1:C:795:VAL:O	1:C:795:VAL:CG1	2.64	0.44
1:D:43:ARG:HE	1:D:43:ARG:HB3	1.63	0.44
1:C:761:GLN:HA	1:C:761:GLN:OE1	2.17	0.44
1:D:761:GLN:OE1	1:D:761:GLN:HA	2.17	0.44
1:C:763:GLY:HA3	1:C:822:LEU:CG	2.48	0.44
1:D:746:ASP:OD2	1:D:757:GLN:CG	2.60	0.44
1:D:763:GLY:HA3	1:D:822:LEU:CG	2.48	0.44
1:A:822:LEU:HA	1:A:840:HIS:HD2	1.81	0.44
1:D:36:TRP:HE1	1:D:42:ALA:HB2	0.38	0.44
1:B:251:ARG:NH1	1:B:251:ARG:HG3	2.24	0.44
1:B:654:TRP:CE3	1:B:654:TRP:O	2.71	0.44
1:A:654:TRP:O	1:A:654:TRP:CE3	2.71	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:107:ILE:HG23	1:D:191:TRP:CE3	2.52	0.44
1:C:107:ILE:HG23	1:C:191:TRP:CE3	2.52	0.44
1:A:90:TRP:O	1:A:93:HIS:HB2	2.17	0.44
1:C:802:ASP:O	1:C:808:GLU:CG	2.53	0.44
1:D:163:GLN:HG3	1:D:163:GLN:O	2.17	0.44
1:B:529:GLU:C	1:B:561:ARG:HH22	2.20	0.44
1:A:86:VAL:HA	1:A:87:PRO:C	2.37	0.44
1:B:400:THR:HG22	1:B:404:ARG:HH12	1.82	0.44
1:C:787:ALA:HB3	1:C:934:GLU:N	2.31	0.44
1:C:1022:GLN:NE2	1:C:1022:GLN:CA	2.73	0.44
1:D:1022:GLN:CA	1:D:1022:GLN:NE2	2.73	0.44
1:C:742:THR:HG22	1:C:760:ARG:HH22	1.69	0.44
1:B:849:LEU:HB2	1:B:850:PHE:CE1	2.52	0.44
1:B:360:HIS:O	1:B:364:GLY:HA2	2.18	0.44
1:C:30:HIS:HD2	1:C:33:PHE:CE2	2.29	0.44
1:D:654:TRP:CZ2	1:D:683:PRO:CD	3.01	0.44
1:D:225:PHE:C	1:D:226:HIS:HD2	2.21	0.44
1:C:654:TRP:CZ2	1:C:683:PRO:CD	3.01	0.44
1:C:823:LEU:CD1	1:C:824:GLN:N	2.69	0.44
1:A:246:MET:HE3	1:A:274:PHE:CD2	2.47	0.44
1:B:636:ILE:HD12	1:B:698:VAL:HG21	1.97	0.44
1:C:10:VAL:HG13	1:C:11:LEU:N	2.32	0.44
1:C:86:VAL:HA	1:C:87:PRO:C	2.37	0.44
1:A:390:SER:HA	1:A:391:HIS:HA	1.53	0.44
1:A:62:TRP:CZ2	1:A:96:ASP:OD1	2.70	0.44
1:B:515:VAL:HG22	1:C:280:ASP:CB	2.36	0.44
1:B:556:PHE:HE1	1:B:565:GLY:N	2.14	0.44
1:C:203:TRP:CE3	1:C:575:LEU:HD11	2.52	0.44
1:B:163:GLN:O	1:B:163:GLN:HG3	2.17	0.44
1:A:163:GLN:HG3	1:A:163:GLN:O	2.17	0.44
1:C:163:GLN:HG3	1:C:163:GLN:O	2.17	0.44
1:B:541:ALA:CA	1:B:545:SER:CB	2.91	0.44
1:A:634:GLN:HA	1:A:634:GLN:NE2	2.32	0.44
1:B:634:GLN:NE2	1:B:634:GLN:HA	2.32	0.44
1:B:476:LYS:HA	1:B:476:LYS:HD2	1.77	0.44
1:B:340:GLY:O	1:B:532:PRO:HB3	2.17	0.44
1:C:634:GLN:HA	1:C:634:GLN:NE2	2.32	0.44
1:D:458:LEU:CD2	1:D:475:ILE:CD1	2.96	0.44
1:C:458:LEU:CD2	1:C:475:ILE:CD1	2.96	0.44
1:C:458:LEU:HD21	1:C:475:ILE:HD12	1.98	0.44
1:C:478:VAL:CG2	1:C:479:ASP:N	2.79	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:276:GLY:O	1:A:277:GLU:OE1	2.34	0.44
1:D:787:ALA:HB3	1:D:934:GLU:N	2.31	0.44
1:A:849:LEU:HB2	1:A:850:PHE:CE1	2.52	0.44
1:C:225:PHE:C	1:C:226:HIS:HD2	2.21	0.44
1:D:654:TRP:CE3	1:D:654:TRP:O	2.71	0.44
1:D:250:LEU:HD11	1:D:287:ASP:HB3	1.98	0.44
1:C:654:TRP:CE3	1:C:654:TRP:O	2.71	0.44
1:A:360:HIS:O	1:A:364:GLY:HA2	2.18	0.44
1:B:250:LEU:HD11	1:B:287:ASP:HB3	1.98	0.44
1:B:36:TRP:CD1	1:B:36:TRP:O	2.71	0.44
1:A:246:MET:HE3	1:A:254:LEU:HD11	2.00	0.44
1:C:205:MET:HB2	1:C:205:MET:HE2	1.68	0.44
1:C:202:MET:HB2	1:C:573:GLN:HE22	1.82	0.44
1:C:62:TRP:CZ2	1:C:96:ASP:OD1	2.70	0.44
1:B:90:TRP:O	1:B:93:HIS:HB2	2.17	0.44
1:B:62:TRP:CZ2	1:B:96:ASP:OD1	2.70	0.44
1:D:203:TRP:CE3	1:D:575:LEU:HD11	2.52	0.44
1:A:336:ARG:HH11	1:A:338:GLU:HG3	1.81	0.44
1:C:601:PHE:CZ	1:C:998:SER:HB2	2.51	0.44
1:A:922:LEU:HD12	1:A:922:LEU:C	2.35	0.44
1:A:340:GLY:O	1:A:532:PRO:HB3	2.18	0.44
1:D:634:GLN:NE2	1:D:634:GLN:HA	2.32	0.44
1:C:455:ILE:CG2	1:C:456:TRP:N	2.79	0.44
1:B:276:GLY:O	1:B:277:GLU:OE1	2.34	0.44
1:D:742:THR:HG22	1:D:760:ARG:HH22	1.69	0.44
1:A:140:ARG:NH2	1:A:217:LYS:CE	2.79	0.44
1:A:36:TRP:O	1:A:36:TRP:CD1	2.71	0.44
1:B:654:TRP:CZ2	1:B:683:PRO:CD	3.01	0.44
1:A:654:TRP:CZ2	1:A:683:PRO:CD	3.01	0.44
1:D:10:VAL:HG13	1:D:11:LEU:N	2.32	0.44
1:D:202:MET:HB2	1:D:573:GLN:HE22	1.82	0.44
1:D:62:TRP:CZ2	1:D:96:ASP:OD1	2.70	0.44
1:A:341:LEU:CD2	1:A:563:GLN:HE21	2.28	0.44
1:A:783:GLN:HE22	1:A:881:ARG:NE	2.15	0.44
1:A:541:ALA:C	1:A:545:SER:OG	2.56	0.44
1:A:531:ARG:N	1:A:561:ARG:HH21	2.15	0.44
1:D:455:ILE:CG2	1:D:456:TRP:N	2.79	0.44
1:D:458:LEU:HD21	1:D:475:ILE:HD12	1.98	0.44
1:B:145:GLY:HA3	1:B:210:ARG:HB2	2.00	0.44
1:C:588:TYR:O	1:C:588:TYR:CD1	2.70	0.44
1:D:588:TYR:CD1	1:D:588:TYR:O	2.70	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:747:PHE:CD1	1:D:760:ARG:CG	3.00	0.44
1:C:250:LEU:HD11	1:C:287:ASP:HB3	1.98	0.44
1:B:225:PHE:C	1:B:226:HIS:HD2	2.21	0.44
1:A:225:PHE:C	1:A:226:HIS:HD2	2.21	0.44
1:A:636:ILE:HD12	1:A:698:VAL:HG21	1.97	0.44
1:A:693:GLN:HE22	1:A:721:ARG:CG	2.09	0.44
1:A:103:VAL:HG13	1:A:418:HIS:CD2	2.53	0.44
1:A:426:LEU:HA	1:A:426:LEU:HD23	1.78	0.44
1:B:197:LEU:HD22	1:B:197:LEU:HA	1.85	0.44
1:B:103:VAL:HG13	1:B:418:HIS:CD2	2.53	0.44
1:B:341:LEU:CD2	1:B:563:GLN:HE21	2.28	0.44
1:B:336:ARG:HH11	1:B:338:GLU:HG3	1.81	0.44
1:B:783:GLN:HE22	1:B:881:ARG:NE	2.15	0.44
1:D:601:PHE:CZ	1:D:998:SER:HB2	2.50	0.44
1:C:541:ALA:C	1:C:545:SER:OG	2.56	0.44
1:B:322:LEU:CD1	1:B:322:LEU:O	2.54	0.44
1:B:922:LEU:HD12	1:B:922:LEU:C	2.35	0.44
1:A:463:GLY:O	1:A:486:TYR:CZ	2.69	0.44
1:A:524:LEU:HD12	1:A:562:LEU:CD1	2.40	0.44
1:B:472:TYR:CE1	1:B:497:ASP:OD1	2.70	0.44
1:B:531:ARG:N	1:B:561:ARG:HH21	2.15	0.44
1:A:915:PHE:CE1	1:A:942:ARG:HG2	2.53	0.44
1:B:915:PHE:CE1	1:B:942:ARG:HG2	2.53	0.44
1:B:910:LEU:C	1:B:910:LEU:CD1	2.85	0.44
1:C:747:PHE:CD1	1:C:760:ARG:CG	3.00	0.44
1:A:763:GLY:HA3	1:A:822:LEU:CG	2.48	0.44
1:A:828:ASP:OD2	1:B:830:LEU:CD2	2.48	0.44
1:B:763:GLY:HA3	1:B:822:LEU:CG	2.48	0.44
1:C:360:HIS:O	1:C:364:GLY:HA2	2.18	0.44
1:D:360:HIS:O	1:D:364:GLY:HA2	2.18	0.44
1:B:140:ARG:NH2	1:B:217:LYS:CE	2.79	0.44
1:D:12:GLN:HA	1:D:14:ARG:N	2.33	0.44
1:C:12:GLN:HA	1:C:14:ARG:N	2.33	0.44
1:A:107:ILE:HG23	1:A:191:TRP:CE3	2.52	0.44
1:A:197:LEU:HD22	1:A:197:LEU:HA	1.85	0.44
1:A:90:TRP:HE1	1:A:96:ASP:HB2	1.80	0.44
1:A:16:TRP:HB3	1:A:161:TYR:OH	2.18	0.44
1:D:802:ASP:O	1:D:808:GLU:CG	2.53	0.44
1:D:541:ALA:C	1:D:545:SER:OG	2.56	0.44
1:C:937:LEU:HD23	1:C:990:HIS:HD2	1.72	0.44
1:D:937:LEU:HD23	1:D:990:HIS:HD2	1.72	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:617:LEU:CD2	1:A:617:LEU:C	2.86	0.44
1:B:617:LEU:C	1:B:617:LEU:CD2	2.86	0.44
1:C:617:LEU:C	1:C:617:LEU:CD2	2.86	0.44
1:D:612:THR:HG22	1:D:613:PRO:N	2.32	0.44
1:A:472:TYR:CE1	1:A:497:ASP:OD1	2.70	0.44
1:C:524:LEU:CD1	1:C:562:LEU:HD11	2.43	0.44
1:D:524:LEU:CD1	1:D:562:LEU:HD11	2.43	0.44
1:D:524:LEU:HD12	1:D:562:LEU:CD1	2.40	0.44
1:C:230:ARG:O	1:C:239:VAL:N	2.46	0.44
1:B:516:PRO:HB2	1:B:518:TRP:CE2	2.52	0.44
1:D:239:VAL:HG22	1:D:294:ASN:OD1	2.18	0.44
1:D:823:LEU:CD1	1:D:824:GLN:N	2.69	0.44
1:D:54:LEU:CG	1:D:214:LEU:HD11	2.38	0.44
1:D:60:PHE:CE1	1:D:123:TYR:CZ	3.06	0.44
1:C:60:PHE:CE1	1:C:123:TYR:CZ	3.06	0.44
1:B:107:ILE:HG23	1:B:191:TRP:CE3	2.52	0.44
1:B:111:PRO:CG	1:B:196:TYR:HE2	2.25	0.44
1:B:90:TRP:HE1	1:B:96:ASP:HB2	1.81	0.44
1:A:516:PRO:HB2	1:A:518:TRP:CE2	2.52	0.44
1:B:16:TRP:HB3	1:B:161:TYR:OH	2.18	0.44
1:D:22:THR:HA	1:D:163:GLN:CG	2.48	0.44
1:B:541:ALA:C	1:B:545:SER:OG	2.56	0.44
1:A:656:VAL:CG1	1:A:694:LEU:HD22	2.48	0.44
1:B:656:VAL:CG1	1:B:694:LEU:HD22	2.48	0.44
1:C:612:THR:HG22	1:C:613:PRO:N	2.32	0.44
1:B:463:GLY:O	1:B:486:TYR:CZ	2.69	0.44
1:D:303:ALA:HB2	1:D:408:TYR:CE1	2.53	0.44
1:C:239:VAL:HG22	1:C:294:ASN:OD1	2.18	0.44
1:A:957:PHE:CD1	1:A:957:PHE:O	2.70	0.44
1:B:957:PHE:O	1:B:957:PHE:CD1	2.70	0.44
1:A:501:PRO:HG3	1:A:533:LEU:HD11	1.99	0.44
1:B:501:PRO:HG3	1:B:533:LEU:HD11	1.99	0.44
1:A:145:GLY:HA3	1:A:210:ARG:HB2	2.00	0.44
1:A:910:LEU:C	1:A:910:LEU:CD1	2.86	0.44
1:B:246:MET:HE3	1:B:254:LEU:CD1	2.48	0.44
1:B:281:GLU:CD	1:C:423:MET:CE	2.85	0.44
1:C:22:THR:HA	1:C:163:GLN:CG	2.48	0.44
1:D:790:ASP:OD1	1:D:791:ASN:OD1	2.36	0.44
1:D:617:LEU:CD2	1:D:617:LEU:C	2.86	0.44
1:A:458:LEU:CD2	1:A:475:ILE:CD1	2.96	0.44
1:D:230:ARG:O	1:D:239:VAL:N	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:670:LEU:HD11	1:C:672:VAL:HG21	1.99	0.44
1:C:701:VAL:HG13	1:C:713:HIS:O	2.17	0.44
1:C:434:PRO:O	1:C:437:SER:OG	2.34	0.43
1:B:326:GLU:OE2	1:B:326:GLU:HA	2.18	0.43
1:B:33:PHE:HE2	1:B:223:SER:O	2.01	0.43
1:B:239:VAL:HG22	1:B:294:ASN:OD1	2.18	0.43
1:A:285:TYR:CE1	1:D:422:PRO:HG3	2.53	0.43
1:D:89:ASN:HB2	1:D:92:MET:HG2	1.99	0.43
1:D:336:ARG:HH11	1:D:338:GLU:HG3	1.81	0.43
1:C:790:ASP:OD1	1:C:791:ASN:OD1	2.36	0.43
1:C:619:GLU:HG2	1:C:909:ARG:CD	2.48	0.43
1:A:634:GLN:OE1	1:A:684:GLU:HA	2.18	0.43
1:B:634:GLN:OE1	1:B:684:GLU:HA	2.18	0.43
1:B:458:LEU:CD2	1:B:475:ILE:CD1	2.96	0.43
1:D:656:VAL:CG1	1:D:694:LEU:HD22	2.48	0.43
1:C:303:ALA:HB2	1:C:408:TYR:CE1	2.53	0.43
1:C:921:PRO:HG2	1:C:924:ASP:OD1	2.15	0.43
1:A:473:ARG:HG3	1:D:469:ASP:C	2.38	0.43
1:D:701:VAL:HG13	1:D:713:HIS:O	2.17	0.43
1:D:510:GLN:HG2	1:D:510:GLN:O	2.18	0.43
1:C:510:GLN:HG2	1:C:510:GLN:O	2.18	0.43
1:B:510:GLN:HG2	1:B:510:GLN:O	2.18	0.43
1:A:510:GLN:O	1:A:510:GLN:HG2	2.18	0.43
1:A:178:ARG:CZ	1:A:182:ASN:HA	2.46	0.43
1:A:178:ARG:HH22	1:A:182:ASN:HA	1.82	0.43
1:A:462:SER:HB2	1:A:468:HIS:CE1	2.53	0.43
1:B:462:SER:HB2	1:B:468:HIS:CE1	2.53	0.43
1:C:36:TRP:O	1:C:36:TRP:CD1	2.71	0.43
1:D:36:TRP:CD1	1:D:36:TRP:O	2.71	0.43
1:A:326:GLU:HA	1:A:326:GLU:OE2	2.18	0.43
1:A:33:PHE:HE2	1:A:223:SER:O	2.01	0.43
1:A:239:VAL:HG22	1:A:294:ASN:OD1	2.18	0.43
1:D:103:VAL:HG13	1:D:418:HIS:CD2	2.53	0.43
1:A:281:GLU:CD	1:D:423:MET:CE	2.85	0.43
1:C:89:ASN:HB2	1:C:92:MET:HG2	1.99	0.43
1:A:205:MET:HE2	1:A:205:MET:HB2	1.64	0.43
1:B:390:SER:HA	1:B:391:HIS:HA	1.53	0.43
1:B:7:LEU:HA	1:B:10:VAL:CG1	2.48	0.43
1:C:336:ARG:HH11	1:C:338:GLU:HG3	1.81	0.43
1:A:609:ALA:O	1:A:611:ARG:HB3	2.18	0.43
1:C:656:VAL:CG1	1:C:694:LEU:HD22	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:340:GLY:O	1:D:532:PRO:HB3	2.18	0.43
1:D:957:PHE:CD1	1:D:957:PHE:O	2.70	0.43
1:C:870:VAL:HG21	1:C:882:ILE:CG2	2.47	0.43
1:B:473:ARG:HG3	1:C:469:ASP:C	2.38	0.43
1:C:523:TRP:CD1	1:C:526:LEU:HD12	2.53	0.43
1:B:668:VAL:CG1	1:B:669:PRO:HD2	2.46	0.43
1:C:490:GLY:O	1:C:491:ALA:CB	2.66	0.43
1:B:732:ALA:HA	1:B:733:ALA:HA	1.73	0.43
1:D:434:PRO:O	1:D:437:SER:OG	2.34	0.43
1:B:178:ARG:HH22	1:B:182:ASN:HA	1.82	0.43
1:C:256:VAL:HG21	1:C:274:PHE:CE1	2.27	0.43
1:D:231:PHE:N	1:D:231:PHE:CD1	2.87	0.43
1:C:231:PHE:N	1:C:231:PHE:CD1	2.87	0.43
1:B:693:GLN:HE22	1:B:721:ARG:CG	2.09	0.43
1:D:391:HIS:HB3	1:D:412:GLU:OE2	2.18	0.43
1:B:285:TYR:CE1	1:C:422:PRO:HG3	2.54	0.43
1:C:103:VAL:HG13	1:C:418:HIS:CD2	2.53	0.43
1:C:54:LEU:CG	1:C:214:LEU:HD11	2.38	0.43
1:C:391:HIS:HB3	1:C:412:GLU:OE2	2.18	0.43
1:A:111:PRO:CG	1:A:196:TYR:HE2	2.25	0.43
1:A:59:ARG:HB3	1:A:124:SER:OG	2.18	0.43
1:A:7:LEU:HA	1:A:10:VAL:CG1	2.48	0.43
1:D:18:ASN:ND2	1:D:20:GLY:H	2.16	0.43
1:C:16:TRP:HB3	1:C:161:TYR:OH	2.18	0.43
1:D:102:ASN:CA	1:D:598:ASP:OD1	2.66	0.43
1:D:619:GLU:HG2	1:D:909:ARG:CD	2.48	0.43
1:C:619:GLU:CG	1:C:909:ARG:CG	2.90	0.43
1:A:619:GLU:CG	1:A:909:ARG:CG	2.90	0.43
1:C:301:TRP:HA	1:C:306:PRO:O	2.17	0.43
1:B:609:ALA:O	1:B:611:ARG:HB3	2.18	0.43
1:C:237:ARG:CG	1:C:296:GLU:CG	2.79	0.43
1:C:524:LEU:HD12	1:C:562:LEU:CD1	2.40	0.43
1:C:471:LEU:HD22	1:C:471:LEU:HA	1.78	0.43
1:C:340:GLY:O	1:C:532:PRO:HB3	2.18	0.43
1:D:272:ALA:N	1:D:291:LEU:HD21	2.33	0.43
1:D:863:GLN:CD	1:D:1019:VAL:HG11	2.33	0.43
1:C:854:LYS:HG3	1:C:856:TYR:CE1	2.53	0.43
1:C:957:PHE:CD1	1:C:957:PHE:O	2.70	0.43
1:D:870:VAL:HG21	1:D:882:ILE:CG2	2.47	0.43
1:B:701:VAL:HG13	1:B:713:HIS:O	2.17	0.43
1:D:523:TRP:HD1	1:D:523:TRP:O	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:523:TRP:CD1	1:D:526:LEU:HD12	2.53	0.43
1:D:490:GLY:O	1:D:491:ALA:CB	2.66	0.43
1:C:910:LEU:CD1	1:C:910:LEU:C	2.86	0.43
1:B:178:ARG:CZ	1:B:182:ASN:HA	2.46	0.43
1:C:326:GLU:OE2	1:C:326:GLU:HA	2.18	0.43
1:D:326:GLU:OE2	1:D:326:GLU:HA	2.18	0.43
1:B:272:ALA:N	1:B:291:LEU:HD21	2.33	0.43
1:D:281:GLU:N	1:D:281:GLU:OE1	2.51	0.43
1:B:59:ARG:HB3	1:B:124:SER:OG	2.18	0.43
1:B:426:LEU:HA	1:B:426:LEU:HD23	1.78	0.43
1:C:102:ASN:CA	1:C:598:ASP:OD1	2.66	0.43
1:D:503:TYR:CE1	1:D:999:TRP:HZ2	2.36	0.43
1:B:619:GLU:CG	1:B:909:ARG:CG	2.90	0.43
1:A:203:TRP:CD2	1:A:575:LEU:CD1	3.00	0.43
1:A:634:GLN:HA	1:A:634:GLN:HE21	1.84	0.43
1:B:634:GLN:HE21	1:B:634:GLN:HA	1.84	0.43
1:D:634:GLN:HE21	1:D:634:GLN:HA	1.84	0.43
1:C:634:GLN:HA	1:C:634:GLN:HE21	1.84	0.43
1:C:272:ALA:N	1:C:291:LEU:HD21	2.33	0.43
1:B:54:LEU:CD1	1:B:214:LEU:HD12	2.47	0.43
1:C:751:LEU:CD2	1:C:751:LEU:C	2.86	0.43
1:D:670:LEU:HD11	1:D:672:VAL:HG21	1.99	0.43
1:D:921:PRO:HG2	1:D:924:ASP:OD1	2.15	0.43
1:C:166:ARG:HD3	1:C:166:ARG:HA	1.61	0.43
1:A:411:ASP:OD2	1:A:447:ASP:OD2	2.37	0.43
1:A:701:VAL:HG13	1:A:713:HIS:O	2.17	0.43
1:C:523:TRP:HD1	1:C:523:TRP:O	2.00	0.43
1:A:668:VAL:CG1	1:A:669:PRO:HD2	2.46	0.43
1:C:145:GLY:HA3	1:C:210:ARG:HB2	2.00	0.43
1:D:145:GLY:HA3	1:D:210:ARG:HB2	2.00	0.43
1:D:910:LEU:CD1	1:D:910:LEU:C	2.86	0.43
1:C:827:ALA:O	1:C:828:ASP:OD1	2.35	0.43
1:A:747:PHE:HD1	1:A:760:ARG:CG	2.32	0.43
1:B:747:PHE:HD1	1:B:760:ARG:CG	2.32	0.43
1:A:830:LEU:CD2	1:B:828:ASP:OD2	2.48	0.43
1:C:358:GLU:CB	1:C:367:MET:HE2	2.38	0.43
1:C:33:PHE:HE2	1:C:223:SER:O	2.01	0.43
1:D:33:PHE:HE2	1:D:223:SER:O	2.01	0.43
1:C:970:THR:HG22	1:C:972:HIS:H	1.84	0.43
1:D:970:THR:HG22	1:D:972:HIS:H	1.84	0.43
1:A:246:MET:HE3	1:A:254:LEU:CD1	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:272:ALA:N	1:A:291:LEU:HD21	2.33	0.43
1:A:12:GLN:HA	1:A:14:ARG:N	2.33	0.43
1:A:60:PHE:CE2	1:A:62:TRP:HB2	2.53	0.43
1:B:391:HIS:HB3	1:B:412:GLU:OE2	2.18	0.43
1:C:281:GLU:N	1:C:281:GLU:OE1	2.51	0.43
1:B:864:MET:O	1:B:1020:TRP:N	2.45	0.43
1:D:16:TRP:HB3	1:D:161:TYR:OH	2.18	0.43
1:C:18:ASN:ND2	1:C:20:GLY:H	2.16	0.43
1:D:73:TRP:CZ3	1:D:122:CYS:CB	3.00	0.43
1:D:568:TRP:HE1	1:D:604:ASN:CG	2.21	0.43
1:C:503:TYR:CE1	1:C:999:TRP:HZ2	2.36	0.43
1:D:301:TRP:HA	1:D:306:PRO:O	2.17	0.43
1:D:509:ASP:HB3	1:D:518:TRP:C	2.39	0.43
1:B:863:GLN:HG3	1:B:1019:VAL:CG1	2.48	0.43
1:C:863:GLN:HG3	1:C:1019:VAL:CG1	2.48	0.43
1:D:751:LEU:C	1:D:751:LEU:CD2	2.86	0.43
1:D:854:LYS:HG3	1:D:856:TYR:CE1	2.53	0.43
1:B:411:ASP:OD2	1:B:447:ASP:OD2	2.37	0.43
1:A:523:TRP:CD1	1:A:526:LEU:HD12	2.53	0.43
1:A:257:THR:O	1:A:314:GLU:HG2	2.19	0.43
1:B:257:THR:O	1:B:314:GLU:HG2	2.19	0.43
1:D:827:ALA:O	1:D:828:ASP:OD1	2.35	0.43
1:C:246:MET:CB	1:C:274:PHE:CZ	2.91	0.43
1:B:246:MET:HE3	1:B:274:PHE:CD2	2.48	0.43
1:A:281:GLU:OE1	1:A:281:GLU:N	2.51	0.43
1:B:281:GLU:N	1:B:281:GLU:OE1	2.51	0.43
1:A:391:HIS:HB3	1:A:412:GLU:OE2	2.18	0.43
1:A:89:ASN:HB2	1:A:92:MET:HG2	1.99	0.43
1:B:12:GLN:HA	1:B:14:ARG:N	2.33	0.43
1:B:202:MET:N	1:B:202:MET:HE3	2.34	0.43
1:B:89:ASN:HB2	1:B:92:MET:HG2	1.99	0.43
1:C:26:ARG:CD	1:C:169:SER:HB3	2.48	0.43
1:C:73:TRP:CZ3	1:C:122:CYS:CB	3.00	0.43
1:B:203:TRP:CD2	1:B:575:LEU:CD1	3.00	0.43
1:B:503:TYR:CD1	1:B:999:TRP:CZ2	2.96	0.43
1:B:619:GLU:HG2	1:B:909:ARG:CD	2.48	0.43
1:C:568:TRP:HE1	1:C:604:ASN:CG	2.21	0.43
1:C:626:PHE:HA	1:C:641:GLU:HB2	1.90	0.43
1:C:509:ASP:HB3	1:C:518:TRP:C	2.39	0.43
1:A:863:GLN:HG3	1:A:1019:VAL:CG1	2.48	0.43
1:C:863:GLN:CD	1:C:1019:VAL:HG11	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:863:GLN:HG3	1:D:1019:VAL:CG1	2.48	0.43
1:A:54:LEU:CD1	1:A:214:LEU:HD12	2.47	0.43
1:D:257:THR:O	1:D:314:GLU:HG2	2.19	0.43
1:C:257:THR:O	1:C:314:GLU:HG2	2.19	0.43
1:C:747:PHE:HD1	1:C:760:ARG:CG	2.32	0.43
1:A:280:ASP:HA	1:A:281:GLU:HA	1.49	0.43
1:D:125:LEU:CD1	1:D:127:PHE:CD2	3.02	0.43
1:D:60:PHE:CE2	1:D:62:TRP:HB2	2.53	0.43
1:C:125:LEU:CD1	1:C:127:PHE:CD2	3.02	0.43
1:C:60:PHE:CE2	1:C:62:TRP:HB2	2.53	0.43
1:A:199:ASP:OD2	1:A:418:HIS:HB3	2.19	0.43
1:B:199:ASP:OD2	1:B:418:HIS:HB3	2.19	0.43
1:B:60:PHE:CE2	1:B:62:TRP:HB2	2.54	0.43
1:A:755:ARG:O	1:A:769:TRP:N	2.49	0.43
1:A:341:LEU:HA	1:A:341:LEU:HD23	1.89	0.43
1:D:26:ARG:CD	1:D:169:SER:HB3	2.48	0.43
1:D:619:GLU:CG	1:D:909:ARG:CG	2.90	0.43
1:C:541:ALA:HA	1:C:545:SER:HB3	1.97	0.43
1:A:568:TRP:HA	1:A:569:ASP:HA	1.64	0.43
1:A:619:GLU:HG2	1:A:909:ARG:CD	2.48	0.43
1:A:694:LEU:HB3	1:A:722:LEU:HD12	2.01	0.43
1:B:694:LEU:HB3	1:B:722:LEU:HD12	2.01	0.43
1:D:237:ARG:CG	1:D:296:GLU:CG	2.79	0.43
1:C:915:PHE:CE1	1:C:942:ARG:HG2	2.53	0.43
1:D:258:VAL:HG23	1:D:291:LEU:CD1	2.45	0.43
1:B:854:LYS:HG3	1:B:856:TYR:CE1	2.53	0.43
1:D:950:GLN:NE2	1:D:952:ARG:NH2	2.67	0.43
1:A:141:ILE:CD1	1:A:143:PHE:CE1	2.89	0.43
1:A:901:GLY:N	1:A:918:TRP:NE1	2.66	0.43
1:B:901:GLY:N	1:B:918:TRP:NE1	2.66	0.43
1:B:523:TRP:CD1	1:B:526:LEU:HD12	2.53	0.43
1:D:986:ILE:HG21	1:D:1018:LEU:HD13	2.00	0.43
1:C:362:LEU:HD23	1:C:362:LEU:HA	1.84	0.43
1:A:732:ALA:HA	1:A:733:ALA:HA	1.72	0.43
1:D:747:PHE:HD1	1:D:760:ARG:CG	2.32	0.43
1:C:654:TRP:CG	1:C:666:GLY:O	2.71	0.43
1:A:231:PHE:N	1:A:231:PHE:CD1	2.87	0.43
1:D:10:VAL:HG21	1:D:158:TRP:CD1	2.54	0.43
1:A:10:VAL:HG21	1:A:158:TRP:CD1	2.54	0.43
1:B:10:VAL:HG21	1:B:158:TRP:CD1	2.54	0.43
1:A:864:MET:O	1:A:1020:TRP:N	2.45	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:502:MET:O	1:D:503:TYR:HB2	2.19	0.43
1:C:502:MET:O	1:C:503:TYR:HB2	2.19	0.43
1:D:783:GLN:HE22	1:D:881:ARG:NE	2.15	0.43
1:B:385:ASN:O	1:B:407:LEU:CA	2.67	0.43
1:C:258:VAL:HG23	1:C:291:LEU:CD1	2.45	0.43
1:B:836:ILE:N	1:B:836:ILE:CD1	2.73	0.43
1:C:950:GLN:NE2	1:C:952:ARG:NH2	2.67	0.43
1:A:41:GLU:C	1:A:44:THR:HG1	2.22	0.43
1:C:986:ILE:HG21	1:C:1018:LEU:HD13	2.00	0.43
1:C:221:GLN:NE2	1:C:221:GLN:CA	2.82	0.43
1:D:654:TRP:CG	1:D:666:GLY:O	2.71	0.43
1:D:256:VAL:HG21	1:D:274:PHE:CE1	2.27	0.43
1:A:246:MET:CE	1:A:274:PHE:HE2	1.97	0.43
1:A:34:ALA:CB	1:A:36:TRP:CE3	3.02	0.43
1:B:231:PHE:CD1	1:B:231:PHE:N	2.87	0.43
1:D:125:LEU:HD13	1:D:126:THR:N	2.34	0.43
1:C:10:VAL:HG21	1:C:158:TRP:CD1	2.54	0.43
1:A:422:PRO:HD2	1:A:425:ARG:NH2	2.34	0.43
1:B:755:ARG:O	1:B:769:TRP:N	2.49	0.43
1:C:18:ASN:HD22	1:C:21:VAL:H	1.63	0.43
1:D:546:LEU:O	1:D:549:PHE:CB	2.59	0.43
1:C:783:GLN:HE22	1:C:881:ARG:NE	2.15	0.43
1:A:618:THR:HG23	1:A:619:GLU:N	2.33	0.43
1:A:385:ASN:O	1:A:407:LEU:CA	2.67	0.43
1:C:609:ALA:O	1:C:611:ARG:HB3	2.18	0.43
1:A:303:ALA:HB2	1:A:408:TYR:CE1	2.53	0.43
1:D:915:PHE:CE1	1:D:942:ARG:HG2	2.53	0.43
1:D:506:VAL:C	1:D:519:SER:HB2	2.38	0.43
1:C:506:VAL:C	1:C:519:SER:HB2	2.38	0.43
1:A:854:LYS:HG3	1:A:856:TYR:CE1	2.53	0.43
1:D:921:PRO:HG2	1:D:924:ASP:OD2	2.17	0.43
1:C:629:PHE:CB	1:C:720:TRP:CH2	2.98	0.43
1:C:557:ARG:NE	1:C:628:GLN:NE2	2.67	0.43
1:C:588:TYR:CD1	1:C:588:TYR:C	2.93	0.43
1:C:763:GLY:O	1:C:840:HIS:HE1	2.02	0.43
1:D:763:GLY:O	1:D:840:HIS:HE1	2.02	0.43
1:D:221:GLN:NE2	1:D:221:GLN:CA	2.82	0.43
1:B:140:ARG:HH21	1:B:217:LYS:HE2	1.80	0.43
1:B:34:ALA:CB	1:B:36:TRP:CE3	3.02	0.43
1:A:125:LEU:C	1:A:125:LEU:CD1	2.86	0.43
1:A:125:LEU:CD1	1:A:127:PHE:CD2	3.02	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:60:PHE:CE1	1:A:123:TYR:CZ	3.06	0.43
1:B:125:LEU:C	1:B:125:LEU:CD1	2.86	0.43
1:B:422:PRO:HD2	1:B:425:ARG:NH2	2.34	0.43
1:B:60:PHE:CE1	1:B:123:TYR:CZ	3.06	0.43
1:D:750:GLU:HG2	1:D:755:ARG:CD	2.40	0.43
1:A:900:LEU:CB	1:A:905:ASN:ND2	2.79	0.43
1:B:618:THR:HG23	1:B:619:GLU:N	2.33	0.43
1:B:790:ASP:OD1	1:B:791:ASN:OD1	2.36	0.43
1:B:503:TYR:CE1	1:B:999:TRP:HZ2	2.36	0.43
1:A:503:TYR:CD1	1:A:999:TRP:CZ2	2.96	0.43
1:A:503:TYR:CE1	1:A:999:TRP:HZ2	2.36	0.43
1:C:354:VAL:CG1	1:C:379:MET:HE1	2.49	0.43
1:D:354:VAL:CG1	1:D:379:MET:HE1	2.49	0.43
1:D:609:ALA:O	1:D:611:ARG:HB3	2.18	0.43
1:B:303:ALA:HB2	1:B:408:TYR:CE1	2.53	0.43
1:D:471:LEU:HD22	1:D:471:LEU:HA	1.78	0.43
1:D:472:TYR:HE1	1:D:484:VAL:HB	1.84	0.43
1:D:241:GLU:CB	1:D:292:ARG:HG2	2.48	0.43
1:C:921:PRO:HG2	1:C:924:ASP:OD2	2.17	0.43
1:D:557:ARG:NE	1:D:628:GLN:NE2	2.67	0.43
1:B:557:ARG:NE	1:B:628:GLN:NE2	2.67	0.43
1:D:588:TYR:CD1	1:D:588:TYR:C	2.93	0.43
1:D:732:ALA:HA	1:D:733:ALA:HA	1.72	0.43
1:C:462:SER:HB2	1:C:468:HIS:CE1	2.53	0.42
1:A:140:ARG:HH21	1:A:217:LYS:HE2	1.80	0.42
1:A:654:TRP:CG	1:A:666:GLY:O	2.71	0.42
1:C:125:LEU:HD13	1:C:126:THR:N	2.34	0.42
1:B:125:LEU:CD1	1:B:127:PHE:CD2	3.02	0.42
1:B:200:GLN:HG3	1:B:416:GLU:CB	2.48	0.42
1:C:750:GLU:HG2	1:C:755:ARG:CD	2.40	0.42
1:D:18:ASN:HD22	1:D:21:VAL:H	1.63	0.42
1:A:790:ASP:OD1	1:A:791:ASN:OD1	2.36	0.42
1:A:488:GLY:O	1:A:493:THR:CG2	2.67	0.42
1:B:488:GLY:O	1:B:493:THR:CG2	2.67	0.42
1:A:719:GLN:NE2	1:A:915:PHE:HB3	2.34	0.42
1:D:719:GLN:NE2	1:D:915:PHE:HB3	2.34	0.42
1:C:719:GLN:NE2	1:C:915:PHE:HB3	2.34	0.42
1:C:241:GLU:CB	1:C:292:ARG:HG2	2.48	0.42
1:B:921:PRO:HG2	1:B:924:ASP:OD2	2.17	0.42
1:A:557:ARG:NE	1:A:628:GLN:NE2	2.67	0.42
1:D:462:SER:HB2	1:D:468:HIS:CE1	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:823:LEU:CD1	1:D:824:GLN:HB3	2.49	0.42
1:B:246:MET:CE	1:B:274:PHE:HE2	1.97	0.42
1:B:654:TRP:CG	1:B:666:GLY:O	2.71	0.42
1:A:200:GLN:HG3	1:A:416:GLU:CB	2.47	0.42
1:B:341:LEU:HA	1:B:341:LEU:HD23	1.89	0.42
1:B:900:LEU:CB	1:B:905:ASN:ND2	2.79	0.42
1:D:541:ALA:HA	1:D:545:SER:HB3	1.97	0.42
1:C:634:GLN:OE1	1:C:684:GLU:HA	2.18	0.42
1:B:719:GLN:NE2	1:B:915:PHE:HB3	2.34	0.42
1:C:472:TYR:HE1	1:C:484:VAL:HB	1.84	0.42
1:B:141:ILE:CD1	1:B:143:PHE:CE1	2.89	0.42
1:D:629:PHE:CB	1:D:720:TRP:CH2	2.98	0.42
1:D:901:GLY:N	1:D:918:TRP:NE1	2.66	0.42
1:C:901:GLY:N	1:C:918:TRP:NE1	2.66	0.42
1:D:362:LEU:HD23	1:D:362:LEU:HA	1.84	0.42
1:C:747:PHE:CE1	1:C:760:ARG:NH2	2.87	0.42
1:C:823:LEU:CD1	1:C:824:GLN:HB3	2.49	0.42
1:A:509:ASP:HB3	1:A:518:TRP:C	2.39	0.42
1:C:755:ARG:O	1:C:769:TRP:N	2.49	0.42
1:B:18:ASN:ND2	1:B:20:GLY:H	2.16	0.42
1:B:22:THR:C	1:B:163:GLN:HB3	2.36	0.42
1:B:568:TRP:HA	1:B:569:ASP:HA	1.65	0.42
1:C:546:LEU:O	1:C:549:PHE:CB	2.59	0.42
1:D:961:ARG:HA	1:D:961:ARG:HD3	1.89	0.42
1:C:705:ALA:HB2	1:C:711:ALA:CA	2.41	0.42
1:D:626:PHE:HA	1:D:641:GLU:HG2	2.01	0.42
1:B:498:ILE:HD12	1:B:498:ILE:C	2.39	0.42
1:B:509:ASP:HB3	1:B:518:TRP:C	2.39	0.42
1:A:647:SER:HG	1:A:672:VAL:H	1.66	0.42
1:D:887:GLN:OE1	1:D:983:TRP:CD1	2.73	0.42
1:C:887:GLN:OE1	1:C:983:TRP:CD1	2.73	0.42
1:A:887:GLN:OE1	1:A:983:TRP:CD1	2.73	0.42
1:B:887:GLN:OE1	1:B:983:TRP:CD1	2.73	0.42
1:A:921:PRO:HG2	1:A:924:ASP:OD2	2.17	0.42
1:C:732:ALA:HA	1:C:733:ALA:HA	1.72	0.42
1:D:747:PHE:CE1	1:D:760:ARG:NH2	2.87	0.42
1:A:970:THR:HG22	1:A:972:HIS:H	1.84	0.42
1:B:30:HIS:HD2	1:B:33:PHE:CE2	2.29	0.42
1:D:59:ARG:HB3	1:D:124:SER:OG	2.18	0.42
1:A:572:ASP:CA	1:A:605:GLY:HA3	2.49	0.42
1:B:572:ASP:CA	1:B:605:GLY:HA3	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:750:GLU:CG	1:D:755:ARG:HD3	2.44	0.42
1:A:18:ASN:ND2	1:A:20:GLY:H	2.16	0.42
1:B:102:ASN:CA	1:B:598:ASP:OD1	2.66	0.42
1:C:618:THR:HG23	1:C:619:GLU:N	2.33	0.42
1:A:102:ASN:CA	1:A:598:ASP:OD1	2.66	0.42
1:A:502:MET:O	1:A:503:TYR:HB2	2.19	0.42
1:C:626:PHE:HA	1:C:641:GLU:HG2	2.01	0.42
1:D:634:GLN:OE1	1:D:684:GLU:HA	2.18	0.42
1:C:520:ILE:HG22	1:C:562:LEU:HD11	2.02	0.42
1:D:520:ILE:HG22	1:D:562:LEU:HD11	2.02	0.42
1:D:476:LYS:HD2	1:D:476:LYS:HA	1.77	0.42
1:A:469:ASP:C	1:D:473:ARG:HG3	2.39	0.42
1:C:663:LEU:CD1	1:C:686:PRO:HG2	2.50	0.42
1:D:663:LEU:CD1	1:D:686:PRO:HG2	2.50	0.42
1:B:970:THR:HG22	1:B:972:HIS:H	1.84	0.42
1:D:14:ARG:HD3	1:D:17:GLU:HB2	2.01	0.42
1:C:59:ARG:HB3	1:C:124:SER:OG	2.18	0.42
1:A:7:LEU:CA	1:A:10:VAL:HG12	2.49	0.42
1:A:125:LEU:HD13	1:A:126:THR:N	2.34	0.42
1:A:423:MET:CE	1:D:281:GLU:CD	2.87	0.42
1:A:460:ASN:C	1:A:460:ASN:ND2	2.73	0.42
1:B:7:LEU:CA	1:B:10:VAL:HG12	2.49	0.42
1:B:125:LEU:HD13	1:B:126:THR:N	2.34	0.42
1:B:423:MET:CE	1:C:281:GLU:CD	2.86	0.42
1:B:460:ASN:C	1:B:460:ASN:ND2	2.73	0.42
1:B:26:ARG:CD	1:B:169:SER:HB3	2.48	0.42
1:B:23:GLN:CG	1:B:26:ARG:CZ	2.98	0.42
1:B:23:GLN:N	1:B:23:GLN:HE21	2.17	0.42
1:A:23:GLN:CG	1:A:26:ARG:CZ	2.98	0.42
1:A:23:GLN:N	1:A:23:GLN:HE21	2.17	0.42
1:D:618:THR:HG23	1:D:619:GLU:N	2.33	0.42
1:B:502:MET:O	1:B:502:MET:HG3	2.20	0.42
1:B:999:TRP:CD2	1:B:999:TRP:N	2.84	0.42
1:A:502:MET:O	1:A:502:MET:HG3	2.20	0.42
1:A:354:VAL:HG13	1:A:379:MET:HE1	2.02	0.42
1:A:520:ILE:HG22	1:A:562:LEU:HD11	2.02	0.42
1:D:498:ILE:C	1:D:498:ILE:HD12	2.39	0.42
1:C:835:LEU:HA	1:C:856:TYR:O	2.20	0.42
1:D:835:LEU:HA	1:D:856:TYR:O	2.20	0.42
1:B:647:SER:HG	1:B:672:VAL:H	1.66	0.42
1:D:141:ILE:CD1	1:D:143:PHE:CE1	2.89	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:141:ILE:CD1	1:C:143:PHE:CE1	2.89	0.42
1:B:950:GLN:NE2	1:B:952:ARG:NH2	2.67	0.42
1:A:950:GLN:NE2	1:A:952:ARG:NH2	2.67	0.42
1:A:629:PHE:CD1	1:A:718:GLN:HB2	2.55	0.42
1:D:1000:SER:HB2	1:D:1001:PRO:CD	2.48	0.42
1:A:747:PHE:CE1	1:A:760:ARG:NH2	2.87	0.42
1:B:747:PHE:CE1	1:B:760:ARG:NH2	2.87	0.42
1:C:251:ARG:NH1	1:C:251:ARG:HG3	2.24	0.42
1:D:7:LEU:HD12	1:D:74:LEU:HD12	1.90	0.42
1:D:7:LEU:HA	1:D:10:VAL:CG1	2.48	0.42
1:C:14:ARG:HD3	1:C:17:GLU:HB2	2.01	0.42
1:B:755:ARG:HB2	1:B:769:TRP:HB3	2.02	0.42
1:D:755:ARG:O	1:D:769:TRP:N	2.49	0.42
1:A:26:ARG:CD	1:A:169:SER:HB3	2.48	0.42
1:A:22:THR:C	1:A:163:GLN:HB3	2.36	0.42
1:B:502:MET:O	1:B:503:TYR:HB2	2.19	0.42
1:A:999:TRP:CD2	1:A:999:TRP:N	2.84	0.42
1:D:705:ALA:HB2	1:D:711:ALA:CA	2.41	0.42
1:C:372:MET:CE	1:C:397:LEU:CD2	2.94	0.42
1:A:498:ILE:HD12	1:A:498:ILE:C	2.39	0.42
1:B:520:ILE:HG22	1:B:562:LEU:HD11	2.02	0.42
1:C:476:LYS:HD2	1:C:476:LYS:HA	1.77	0.42
1:C:498:ILE:C	1:C:498:ILE:HD12	2.39	0.42
1:A:40:GLU:O	1:A:44:THR:CG2	2.66	0.42
1:B:469:ASP:C	1:C:473:ARG:HG3	2.39	0.42
1:D:473:ARG:CA	1:D:473:ARG:NE	2.73	0.42
1:B:850:PHE:CE2	1:B:879:PRO:HB3	2.52	0.42
1:A:30:HIS:HD2	1:A:33:PHE:CE2	2.29	0.42
1:A:721:ARG:NH2	1:B:874:SER:CB	2.83	0.42
1:C:7:LEU:HD12	1:C:74:LEU:HD12	1.90	0.42
1:A:755:ARG:HB2	1:A:769:TRP:HB3	2.02	0.42
1:D:589:GLY:HA2	1:D:599:ARG:HA	1.88	0.42
1:D:568:TRP:HA	1:D:569:ASP:HA	1.65	0.42
1:D:385:ASN:O	1:D:407:LEU:CA	2.67	0.42
1:C:385:ASN:O	1:C:407:LEU:CA	2.67	0.42
1:B:626:PHE:HA	1:B:641:GLU:HG2	2.01	0.42
1:A:626:PHE:HA	1:A:641:GLU:HG2	2.01	0.42
1:B:629:PHE:CD1	1:B:718:GLN:HB2	2.55	0.42
1:D:629:PHE:CD1	1:D:718:GLN:HB2	2.55	0.42
1:C:629:PHE:CD1	1:C:718:GLN:HB2	2.55	0.42
1:C:1000:SER:HB2	1:C:1001:PRO:CD	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:571:VAL:HG13	1:C:571:VAL:O	2.20	0.42
1:D:571:VAL:HG13	1:D:571:VAL:O	2.20	0.42
1:D:422:PRO:HD2	1:D:425:ARG:NH2	2.34	0.42
1:C:52:ARG:CB	1:C:133:TRP:HH2	2.33	0.42
1:C:7:LEU:HA	1:C:10:VAL:CG1	2.48	0.42
1:C:750:GLU:CG	1:C:755:ARG:HD3	2.44	0.42
1:B:23:GLN:NE2	1:B:23:GLN:C	2.73	0.42
1:A:23:GLN:NE2	1:A:23:GLN:C	2.73	0.42
1:A:891:VAL:HA	1:A:946:TYR:HH	1.85	0.42
1:C:867:THR:CG2	1:C:1017:GLN:CG	2.92	0.42
1:C:377:LEU:HD22	1:C:708:TRP:CB	2.50	0.42
1:D:411:ASP:OD2	1:D:447:ASP:OD2	2.37	0.42
1:C:411:ASP:OD2	1:C:447:ASP:OD2	2.37	0.42
1:B:986:ILE:HG21	1:B:1018:LEU:HD13	2.00	0.42
1:D:849:LEU:HB2	1:D:850:PHE:CE1	2.52	0.42
1:C:849:LEU:HB2	1:C:850:PHE:CE1	2.52	0.42
1:A:763:GLY:O	1:A:840:HIS:HE1	2.02	0.42
1:D:52:ARG:CB	1:D:133:TRP:HH2	2.33	0.42
1:C:422:PRO:HD2	1:C:425:ARG:NH2	2.34	0.42
1:B:769:TRP:CZ2	1:B:774:LYS:HE2	2.55	0.42
1:A:881:ARG:NH1	1:A:990:HIS:CE1	2.88	0.42
1:C:881:ARG:NH1	1:C:990:HIS:CE1	2.88	0.42
1:D:881:ARG:NH1	1:D:990:HIS:CE1	2.88	0.42
1:C:961:ARG:HA	1:C:961:ARG:HD3	1.89	0.42
1:D:372:MET:CE	1:D:397:LEU:CD2	2.94	0.42
1:D:488:GLY:O	1:D:493:THR:CG2	2.67	0.42
1:C:488:GLY:O	1:C:493:THR:CG2	2.67	0.42
1:A:377:LEU:HD22	1:A:708:TRP:CB	2.50	0.42
1:B:963:SER:OG	1:B:966:GLN:HB2	2.20	0.42
1:B:835:LEU:HA	1:B:856:TYR:O	2.19	0.42
1:D:343:LEU:HD21	1:D:347:LYS:C	2.31	0.42
1:D:377:LEU:HD22	1:D:708:TRP:CB	2.50	0.42
1:A:986:ILE:HG21	1:A:1018:LEU:HD13	2.00	0.42
1:A:850:PHE:CE2	1:A:879:PRO:HB3	2.52	0.42
1:D:251:ARG:NH1	1:D:251:ARG:HG3	2.24	0.42
1:C:970:THR:CG2	1:C:972:HIS:O	2.68	0.42
1:A:874:SER:CB	1:B:721:ARG:NH2	2.83	0.42
1:D:572:ASP:CA	1:D:605:GLY:HA3	2.50	0.42
1:B:205:MET:HE2	1:B:205:MET:HB2	1.69	0.42
1:A:769:TRP:CZ2	1:A:774:LYS:HE2	2.55	0.42
1:D:23:GLN:CG	1:D:26:ARG:CZ	2.98	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:23:GLN:CG	1:C:26:ARG:CZ	2.98	0.42
1:B:881:ARG:NH1	1:B:990:HIS:CE1	2.88	0.42
1:D:502:MET:O	1:D:502:MET:HG3	2.19	0.42
1:B:568:TRP:HE1	1:B:604:ASN:CG	2.21	0.42
1:C:375:ASP:OD1	1:C:570:TRP:CD1	2.64	0.42
1:A:963:SER:OG	1:A:966:GLN:HB2	2.20	0.42
1:B:377:LEU:HD22	1:B:708:TRP:CB	2.50	0.42
1:B:842:TRP:O	1:B:848:THR:HG23	2.20	0.42
1:B:763:GLY:O	1:B:840:HIS:HE1	2.02	0.41
1:D:970:THR:CG2	1:D:972:HIS:O	2.68	0.41
1:D:199:ASP:OD2	1:D:418:HIS:HB3	2.19	0.41
1:C:199:ASP:OD2	1:C:418:HIS:HB3	2.19	0.41
1:C:572:ASP:CA	1:C:605:GLY:HA3	2.50	0.41
1:A:422:PRO:HG3	1:D:285:TYR:CE1	2.55	0.41
1:B:117:GLU:C	1:B:118:ASN:ND2	2.73	0.41
1:C:502:MET:HG3	1:C:502:MET:O	2.20	0.41
1:A:588:TYR:C	1:A:588:TYR:CD1	2.93	0.41
1:C:892:ALA:N	1:C:946:TYR:OH	2.37	0.41
1:B:485:GLN:O	1:B:485:GLN:HG3	2.21	0.41
1:B:908:ASP:HB2	1:B:1007:PHE:CD1	2.55	0.41
1:D:867:THR:CG2	1:D:1017:GLN:CG	2.92	0.41
1:B:52:ARG:CB	1:B:133:TRP:HH2	2.33	0.41
1:A:52:ARG:CB	1:A:133:TRP:HH2	2.33	0.41
1:A:835:LEU:HA	1:A:856:TYR:O	2.20	0.41
1:A:842:TRP:O	1:A:848:THR:HG23	2.20	0.41
1:B:272:ALA:HB3	1:B:291:LEU:CD2	2.35	0.41
1:A:117:GLU:C	1:A:118:ASN:ND2	2.73	0.41
1:A:365:GLN:OE1	1:A:365:GLN:HA	2.21	0.41
1:B:422:PRO:HG3	1:C:285:TYR:CE1	2.55	0.41
1:A:949:HIS:CE1	1:A:1020:TRP:HH2	2.38	0.41
1:C:589:GLY:HA2	1:C:599:ARG:HA	1.88	0.41
1:B:588:TYR:C	1:B:588:TYR:CD1	2.93	0.41
1:D:909:ARG:HE	1:D:909:ARG:HB3	1.56	0.41
1:C:568:TRP:HA	1:C:569:ASP:HA	1.64	0.41
1:A:568:TRP:HE1	1:A:604:ASN:CG	2.21	0.41
1:C:376:ILE:HD12	1:C:401:LEU:HB3	2.02	0.41
1:D:376:ILE:HD12	1:D:401:LEU:HB3	2.02	0.41
1:D:608:PHE:HB2	1:D:612:THR:N	2.35	0.41
1:A:471:LEU:HA	1:A:471:LEU:HD22	1.78	0.41
1:A:485:GLN:O	1:A:485:GLN:HG3	2.21	0.41
1:A:908:ASP:HB2	1:A:1007:PHE:CD1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:372:MET:HE3	1:A:397:LEU:CD2	2.50	0.41
1:B:663:LEU:CD1	1:B:686:PRO:HG2	2.50	0.41
1:A:267:VAL:HG23	1:A:268:ALA:N	2.36	0.41
1:B:267:VAL:HG23	1:B:268:ALA:N	2.36	0.41
1:D:54:LEU:CD1	1:D:214:LEU:HD12	2.47	0.41
1:B:365:GLN:HA	1:B:365:GLN:OE1	2.21	0.41
1:B:949:HIS:CE1	1:B:1020:TRP:HH2	2.39	0.41
1:D:22:THR:CG2	1:D:438:GLU:HG3	2.33	0.41
1:C:316:HIS:HB3	1:C:322:LEU:CB	2.51	0.41
1:B:607:VAL:HG12	1:B:617:LEU:CD1	2.18	0.41
1:C:608:PHE:HB2	1:C:612:THR:N	2.35	0.41
1:B:834:VAL:HG12	1:B:836:ILE:CD1	2.50	0.41
1:A:376:ILE:HG12	1:A:398:TRP:CZ3	2.56	0.41
1:B:376:ILE:HG12	1:B:398:TRP:CZ3	2.56	0.41
1:D:278:ILE:HG23	1:D:278:ILE:O	2.20	0.41
1:C:278:ILE:O	1:C:278:ILE:HG23	2.20	0.41
1:A:663:LEU:CD1	1:A:686:PRO:HG2	2.50	0.41
1:D:267:VAL:HG23	1:D:268:ALA:N	2.36	0.41
1:C:778:THR:HG22	1:C:779:PRO:CD	2.48	0.41
1:D:34:ALA:CB	1:D:36:TRP:CE3	3.02	0.41
1:A:272:ALA:HB3	1:A:291:LEU:CD2	2.35	0.41
1:B:241:GLU:CB	1:B:292:ARG:HG2	2.48	0.41
1:B:421:VAL:HA	1:B:422:PRO:C	2.41	0.41
1:B:949:HIS:ND1	1:B:1020:TRP:HH2	2.16	0.41
1:B:546:LEU:O	1:B:549:PHE:CB	2.59	0.41
1:C:909:ARG:HB3	1:C:909:ARG:HE	1.56	0.41
1:D:316:HIS:HB3	1:D:322:LEU:CB	2.51	0.41
1:B:354:VAL:HG13	1:B:379:MET:HE1	2.03	0.41
1:D:375:ASP:OD1	1:D:570:TRP:CD1	2.64	0.41
1:D:694:LEU:HB3	1:D:722:LEU:HD12	2.01	0.41
1:D:481:SER:H	1:D:481:SER:HG	1.56	0.41
1:A:834:VAL:HG12	1:A:836:ILE:CD1	2.50	0.41
1:D:655:MET:CE	1:D:699:ARG:HH11	2.29	0.41
1:B:278:ILE:O	1:B:278:ILE:HG23	2.20	0.41
1:C:251:ARG:HG3	1:C:253:TYR:CZ	2.56	0.41
1:C:34:ALA:CB	1:C:36:TRP:CE3	3.02	0.41
1:D:251:ARG:HG3	1:D:253:TYR:CZ	2.56	0.41
1:B:251:ARG:HD3	1:B:251:ARG:HA	1.59	0.41
1:A:258:VAL:HG23	1:A:291:LEU:CD1	2.45	0.41
1:A:281:GLU:CD	1:D:423:MET:HE3	2.41	0.41
1:C:118:ASN:HD22	1:C:118:ASN:N	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:365:GLN:OE1	1:C:365:GLN:HA	2.21	0.41
1:C:54:LEU:CD1	1:C:214:LEU:HD12	2.47	0.41
1:A:202:MET:HE3	1:A:202:MET:H	1.85	0.41
1:D:949:HIS:CE1	1:D:1020:TRP:HH2	2.39	0.41
1:A:502:MET:HB3	1:A:502:MET:HE3	1.82	0.41
1:A:541:ALA:HA	1:A:545:SER:HB3	1.97	0.41
1:D:908:ASP:HB2	1:D:1007:PHE:CD1	2.55	0.41
1:D:626:PHE:HA	1:D:641:GLU:CG	2.51	0.41
1:C:626:PHE:HA	1:C:641:GLU:CG	2.51	0.41
1:D:782:ASP:OD1	1:D:854:LYS:NZ	2.47	0.41
1:C:319:ASP:HB2	1:C:320:GLY:HA2	2.02	0.41
1:A:278:ILE:O	1:A:278:ILE:HG23	2.20	0.41
1:D:629:PHE:HB3	1:D:720:TRP:CZ2	2.55	0.41
1:C:267:VAL:HG23	1:C:268:ALA:N	2.36	0.41
1:D:778:THR:HG22	1:D:779:PRO:CD	2.48	0.41
1:A:850:PHE:CD2	1:A:872:VAL:HG22	2.55	0.41
1:B:850:PHE:CD2	1:B:872:VAL:HG22	2.55	0.41
1:A:241:GLU:CB	1:A:292:ARG:HG2	2.48	0.41
1:B:258:VAL:HG23	1:B:291:LEU:CD1	2.45	0.41
1:D:118:ASN:N	1:D:118:ASN:HD22	2.18	0.41
1:D:365:GLN:OE1	1:D:365:GLN:HA	2.21	0.41
1:D:88:SER:CB	1:D:93:HIS:CE1	3.03	0.41
1:C:573:GLN:N	1:C:603:MET:HA	2.25	0.41
1:C:864:MET:O	1:C:1020:TRP:N	2.45	0.41
1:C:949:HIS:CE1	1:C:1020:TRP:HH2	2.39	0.41
1:D:864:MET:O	1:D:1020:TRP:N	2.45	0.41
1:B:22:THR:HA	1:B:163:GLN:CG	2.48	0.41
1:D:892:ALA:N	1:D:946:TYR:OH	2.37	0.41
1:A:626:PHE:HA	1:A:641:GLU:CG	2.51	0.41
1:C:694:LEU:HB3	1:C:722:LEU:HD12	2.01	0.41
1:C:343:LEU:HD21	1:C:347:LYS:C	2.31	0.41
1:B:63:PHE:HB2	1:B:69:VAL:CG1	2.51	0.41
1:D:41:GLU:O	1:D:44:THR:OG1	2.36	0.41
1:C:41:GLU:O	1:C:44:THR:OG1	2.36	0.41
1:C:655:MET:CE	1:C:699:ARG:HH11	2.29	0.41
1:A:629:PHE:HB3	1:A:720:TRP:CZ2	2.55	0.41
1:C:629:PHE:HB3	1:C:720:TRP:CZ2	2.55	0.41
1:C:989:PHE:CD1	1:C:1014:TYR:CD2	3.08	0.41
1:A:668:VAL:HG12	1:A:669:PRO:O	2.21	0.41
1:B:266:GLN:HE21	1:B:266:GLN:HB3	1.59	0.41
1:B:227:VAL:HG13	1:B:240:LEU:HD11	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:433:LEU:CA	1:D:467:ASN:ND2	2.84	0.41
1:C:730:LEU:HD22	1:C:731:PRO:HD2	2.03	0.41
1:D:773:LYS:HA	1:D:773:LYS:HD3	1.84	0.41
1:A:970:THR:CG2	1:A:972:HIS:O	2.68	0.41
1:D:572:ASP:OD2	1:D:603:MET:HE1	2.20	0.41
1:A:421:VAL:HA	1:A:422:PRO:C	2.41	0.41
1:A:949:HIS:ND1	1:A:1020:TRP:HH2	2.16	0.41
1:C:22:THR:CG2	1:C:438:GLU:HG3	2.33	0.41
1:B:922:LEU:CD2	1:B:946:TYR:OH	2.69	0.41
1:C:922:LEU:CD2	1:C:946:TYR:OH	2.69	0.41
1:D:922:LEU:CD2	1:D:946:TYR:OH	2.69	0.41
1:D:354:VAL:CG1	1:D:379:MET:CE	2.98	0.41
1:C:908:ASP:HB2	1:C:1007:PHE:CD1	2.55	0.41
1:B:626:PHE:HA	1:B:641:GLU:CG	2.51	0.41
1:C:516:PRO:HB2	1:C:518:TRP:CE2	2.52	0.41
1:B:2:MET:O	1:B:2:MET:SD	2.79	0.41
1:A:63:PHE:HB2	1:A:69:VAL:CG1	2.51	0.41
1:A:376:ILE:HD12	1:A:401:LEU:HB3	2.02	0.41
1:D:319:ASP:HB2	1:D:320:GLY:HA2	2.02	0.41
1:B:629:PHE:HB3	1:B:720:TRP:CZ2	2.55	0.41
1:A:501:PRO:CG	1:A:533:LEU:HD21	2.51	0.41
1:C:499:ILE:H	1:C:499:ILE:HG13	1.63	0.41
1:C:842:TRP:O	1:C:848:THR:HG23	2.20	0.41
1:B:38:ASN:OD1	1:B:39:SER:N	2.54	0.41
1:C:433:LEU:CA	1:C:467:ASN:ND2	2.84	0.41
1:C:850:PHE:CD2	1:C:872:VAL:HG22	2.55	0.41
1:D:730:LEU:HD22	1:D:731:PRO:HD2	2.03	0.41
1:B:970:THR:CG2	1:B:972:HIS:O	2.68	0.41
1:C:54:LEU:CD2	1:C:214:LEU:HD11	2.43	0.41
1:B:118:ASN:HD22	1:B:118:ASN:N	2.18	0.41
1:B:14:ARG:HD3	1:B:17:GLU:HB2	2.01	0.41
1:A:23:GLN:CB	1:A:161:TYR:O	2.69	0.41
1:A:22:THR:HA	1:A:163:GLN:CG	2.48	0.41
1:B:541:ALA:HA	1:B:545:SER:HB3	1.97	0.41
1:A:546:LEU:O	1:A:549:PHE:CB	2.59	0.41
1:A:922:LEU:CD2	1:A:946:TYR:OH	2.69	0.41
1:A:694:LEU:C	1:A:722:LEU:HB2	2.41	0.41
1:B:694:LEU:C	1:B:722:LEU:HB2	2.41	0.41
1:C:354:VAL:CG1	1:C:379:MET:CE	2.98	0.41
1:C:237:ARG:HG2	1:C:296:GLU:CB	2.48	0.41
1:B:506:VAL:C	1:B:519:SER:HB2	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:516:PRO:HB2	1:D:518:TRP:CE2	2.52	0.41
1:A:2:MET:SD	1:A:2:MET:O	2.79	0.41
1:D:842:TRP:O	1:D:848:THR:HG23	2.20	0.41
1:A:63:PHE:N	1:A:63:PHE:CD1	2.89	0.41
1:B:63:PHE:CD1	1:B:63:PHE:N	2.89	0.41
1:A:372:MET:CE	1:A:397:LEU:CD2	2.94	0.41
1:B:376:ILE:HD12	1:B:401:LEU:HB3	2.02	0.41
1:D:989:PHE:CD1	1:D:1014:TYR:CD2	3.09	0.41
1:B:989:PHE:CD1	1:B:1014:TYR:CD2	3.09	0.41
1:B:668:VAL:HG12	1:B:669:PRO:O	2.21	0.41
1:D:499:ILE:H	1:D:499:ILE:HG13	1.63	0.41
1:A:38:ASN:OD1	1:A:39:SER:N	2.54	0.41
1:A:227:VAL:HG13	1:A:240:LEU:HD11	2.03	0.41
1:D:850:PHE:CD2	1:D:872:VAL:HG22	2.55	0.41
1:B:823:LEU:CD1	1:B:824:GLN:HB3	2.49	0.41
1:A:245:GLN:OE1	1:A:288:ARG:NH1	2.54	0.41
1:A:251:ARG:HD3	1:A:251:ARG:HA	1.59	0.41
1:D:724:GLU:OE1	1:D:726:LEU:HG	2.21	0.41
1:C:721:ARG:NH2	1:D:874:SER:CB	2.83	0.41
1:B:724:GLU:OE1	1:B:726:LEU:HG	2.21	0.41
1:A:724:GLU:OE1	1:A:726:LEU:HG	2.21	0.41
1:D:54:LEU:CD2	1:D:214:LEU:HD11	2.43	0.41
1:D:573:GLN:N	1:D:603:MET:HA	2.25	0.41
1:A:14:ARG:HD3	1:A:17:GLU:HB2	2.02	0.41
1:A:101:THR:HG23	1:A:101:THR:O	2.21	0.41
1:A:118:ASN:N	1:A:118:ASN:HD22	2.18	0.41
1:B:951:TRP:NE1	1:B:1020:TRP:CD1	2.87	0.41
1:D:769:TRP:CZ3	1:D:774:LYS:HG2	2.38	0.41
1:C:23:GLN:NE2	1:C:23:GLN:C	2.73	0.41
1:B:23:GLN:CB	1:B:161:TYR:O	2.69	0.41
1:B:588:TYR:CD1	1:B:600:GLN:HA	2.56	0.41
1:A:588:TYR:CD1	1:A:600:GLN:HA	2.56	0.41
1:C:881:ARG:HB3	1:C:990:HIS:ND1	2.36	0.41
1:A:607:VAL:HG12	1:A:617:LEU:CD1	2.18	0.41
1:A:354:VAL:CG1	1:A:379:MET:CE	2.98	0.41
1:B:354:VAL:CG1	1:B:379:MET:CE	2.98	0.41
1:A:472:TYR:HE1	1:A:484:VAL:HB	1.84	0.41
1:B:472:TYR:HE1	1:B:484:VAL:HB	1.84	0.41
1:D:237:ARG:HG2	1:D:296:GLU:CB	2.48	0.41
1:D:485:GLN:HG3	1:D:485:GLN:O	2.21	0.41
1:C:463:GLY:O	1:C:486:TYR:CZ	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:485:GLN:O	1:C:485:GLN:HG3	2.21	0.41
1:C:481:SER:H	1:C:481:SER:HG	1.56	0.41
1:D:963:SER:OG	1:D:966:GLN:HB2	2.20	0.41
1:D:63:PHE:HB2	1:D:69:VAL:CG1	2.51	0.41
1:C:63:PHE:HB2	1:C:69:VAL:CG1	2.51	0.41
1:B:343:LEU:HD23	1:B:348:PRO:N	2.31	0.41
1:B:372:MET:CE	1:B:397:LEU:CD2	2.94	0.41
1:B:319:ASP:HB2	1:B:320:GLY:HA2	2.02	0.41
1:A:319:ASP:HB2	1:A:320:GLY:HA2	2.02	0.41
1:C:943:GLU:HG2	1:C:944:LEU:N	2.36	0.41
1:D:943:GLU:HG2	1:D:944:LEU:N	2.36	0.41
1:D:166:ARG:HA	1:D:166:ARG:HD3	1.61	0.41
1:D:901:GLY:CA	1:D:918:TRP:CE2	3.04	0.41
1:A:989:PHE:CD1	1:A:1014:TYR:CD2	3.09	0.41
1:B:501:PRO:CG	1:B:533:LEU:HD21	2.51	0.41
1:A:266:GLN:HE21	1:A:266:GLN:HB3	1.59	0.41
1:C:38:ASN:OD1	1:C:39:SER:N	2.54	0.41
1:D:38:ASN:OD1	1:D:39:SER:N	2.54	0.41
1:C:773:LYS:HD3	1:C:773:LYS:HA	1.84	0.41
1:B:245:GLN:OE1	1:B:288:ARG:NH1	2.54	0.41
1:C:724:GLU:OE1	1:C:726:LEU:HG	2.21	0.41
1:C:416:GLU:HG3	1:C:417:THR:N	2.35	0.41
1:B:101:THR:O	1:B:101:THR:HG23	2.21	0.41
1:D:23:GLN:NE2	1:D:23:GLN:C	2.73	0.41
1:C:23:GLN:N	1:C:23:GLN:HE21	2.17	0.41
1:D:881:ARG:HB3	1:D:990:HIS:ND1	2.36	0.41
1:D:306:PRO:HB3	1:D:403:ASP:O	2.21	0.41
1:D:463:GLY:O	1:D:486:TYR:CZ	2.69	0.41
1:C:146:VAL:HG12	1:C:147:ASN:N	2.36	0.41
1:A:474:TRP:CB	1:D:470:ALA:HB2	2.50	0.41
1:C:963:SER:OG	1:C:966:GLN:HB2	2.20	0.41
1:D:347:LYS:HD3	1:D:347:LYS:HA	1.88	0.41
1:D:35:SER:HB3	1:D:215:LEU:CD1	2.48	0.41
1:A:490:GLY:O	1:A:491:ALA:CB	2.66	0.41
1:D:682:LEU:HD23	1:D:682:LEU:N	2.36	0.41
1:A:823:LEU:CD1	1:A:824:GLN:HB3	2.49	0.40
1:A:824:GLN:CG	1:A:825:CYS:N	2.84	0.40
1:C:245:GLN:OE1	1:C:288:ARG:NH1	2.54	0.40
1:D:245:GLN:OE1	1:D:288:ARG:NH1	2.54	0.40
1:B:254:LEU:HD11	1:B:274:PHE:CD2	2.57	0.40
1:A:254:LEU:HD11	1:A:274:PHE:CD2	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:874:SER:CB	1:D:721:ARG:NH2	2.83	0.40
1:D:202:MET:HA	1:D:573:GLN:HE22	1.87	0.40
1:A:951:TRP:NE1	1:A:1020:TRP:CD1	2.87	0.40
1:A:506:VAL:C	1:A:519:SER:HB2	2.38	0.40
1:B:502:MET:HB3	1:B:502:MET:HE3	1.82	0.40
1:C:372:MET:SD	1:C:397:LEU:HD23	2.61	0.40
1:C:306:PRO:HB3	1:C:403:ASP:O	2.21	0.40
1:D:372:MET:SD	1:D:397:LEU:HD23	2.61	0.40
1:A:296:GLU:O	1:A:297:ASN:HB2	2.21	0.40
1:B:296:GLU:O	1:B:297:ASN:HB2	2.21	0.40
1:B:146:VAL:HG12	1:B:147:ASN:N	2.36	0.40
1:D:146:VAL:HG12	1:D:147:ASN:N	2.36	0.40
1:A:343:LEU:HD23	1:A:348:PRO:N	2.31	0.40
1:D:40:GLU:O	1:D:44:THR:CG2	2.66	0.40
1:C:901:GLY:CA	1:C:918:TRP:CE2	3.04	0.40
1:A:989:PHE:CD1	1:A:1014:TYR:HD2	2.39	0.40
1:A:557:ARG:CZ	1:A:628:GLN:HE22	2.34	0.40
1:B:557:ARG:CZ	1:B:628:GLN:HE22	2.34	0.40
1:B:782:ASP:HB2	1:B:842:TRP:CH2	2.56	0.40
1:A:782:ASP:HB2	1:A:842:TRP:CH2	2.56	0.40
1:A:955:PHE:CD2	1:A:955:PHE:N	2.89	0.40
1:D:776:LEU:C	1:D:776:LEU:HD12	2.40	0.40
1:D:246:MET:HG3	1:D:250:LEU:HD21	2.02	0.40
1:A:231:PHE:CD2	1:A:238:ALA:HB2	2.57	0.40
1:D:125:LEU:CD1	1:D:127:PHE:HD2	2.35	0.40
1:D:127:PHE:CE1	1:D:214:LEU:HD21	2.56	0.40
1:D:416:GLU:HG3	1:D:417:THR:N	2.36	0.40
1:C:117:GLU:C	1:C:118:ASN:ND2	2.73	0.40
1:C:125:LEU:CD1	1:C:127:PHE:HD2	2.35	0.40
1:C:202:MET:HA	1:C:573:GLN:HE22	1.87	0.40
1:C:127:PHE:CE1	1:C:214:LEU:HD21	2.56	0.40
1:C:426:LEU:HD23	1:C:426:LEU:HA	1.78	0.40
1:C:603:MET:HE2	1:C:603:MET:HB3	1.63	0.40
1:D:951:TRP:NE1	1:D:1020:TRP:CD1	2.87	0.40
1:D:755:ARG:HB2	1:D:769:TRP:HB3	2.02	0.40
1:D:23:GLN:N	1:D:23:GLN:HE21	2.17	0.40
1:B:939:CYS:HG	1:B:956:GLN:HG2	1.75	0.40
1:A:316:HIS:HB3	1:A:322:LEU:CB	2.51	0.40
1:B:316:HIS:HB3	1:B:322:LEU:CB	2.51	0.40
1:D:2:MET:SD	1:D:2:MET:O	2.79	0.40
1:D:782:ASP:HB2	1:D:842:TRP:CH2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:40:GLU:O	1:C:44:THR:CG2	2.66	0.40
1:B:989:PHE:CD1	1:B:1014:TYR:HD2	2.39	0.40
1:C:674:PRO:O	1:C:675:GLN:CB	2.65	0.40
1:D:674:PRO:O	1:D:675:GLN:CB	2.65	0.40
1:D:668:VAL:HG12	1:D:669:PRO:O	2.21	0.40
1:B:490:GLY:O	1:B:491:ALA:CB	2.66	0.40
1:B:955:PHE:N	1:B:955:PHE:CD2	2.89	0.40
1:C:682:LEU:HD23	1:C:682:LEU:N	2.36	0.40
1:C:776:LEU:C	1:C:776:LEU:HD12	2.40	0.40
1:B:433:LEU:CD1	1:B:467:ASN:ND2	2.72	0.40
1:B:824:GLN:CG	1:B:825:CYS:N	2.84	0.40
1:C:246:MET:HG3	1:C:250:LEU:HD21	2.02	0.40
1:D:693:GLN:HE22	1:D:721:ARG:HE	1.69	0.40
1:C:693:GLN:HE22	1:C:721:ARG:HE	1.69	0.40
1:B:231:PHE:CD2	1:B:238:ALA:HB2	2.57	0.40
1:B:416:GLU:HG3	1:B:417:THR:N	2.35	0.40
1:A:559:TYR:HA	1:A:560:PRO:HD3	1.93	0.40
1:C:951:TRP:NE1	1:C:1020:TRP:CD1	2.87	0.40
1:B:807:VAL:CG1	1:B:808:GLU:N	2.85	0.40
1:A:807:VAL:CG1	1:A:808:GLU:N	2.85	0.40
1:A:146:VAL:HG12	1:A:147:ASN:N	2.36	0.40
1:C:2:MET:SD	1:C:2:MET:O	2.79	0.40
1:C:347:LYS:HA	1:C:347:LYS:HD3	1.88	0.40
1:C:668:VAL:HG12	1:C:669:PRO:O	2.21	0.40
1:C:782:ASP:HB2	1:C:842:TRP:CH2	2.56	0.40
1:C:227:VAL:HG13	1:C:240:LEU:HD11	2.03	0.40
1:D:227:VAL:HG13	1:D:240:LEU:HD11	2.03	0.40
1:A:742:THR:HG22	1:A:760:ARG:HH22	1.69	0.40
1:B:221:GLN:NE2	1:B:221:GLN:CA	2.82	0.40
1:A:221:GLN:NE2	1:A:221:GLN:CA	2.82	0.40
1:A:724:GLU:N	1:B:875:ASP:HB2	2.36	0.40
1:D:101:THR:HG23	1:D:101:THR:O	2.21	0.40
1:D:421:VAL:HA	1:D:422:PRO:C	2.41	0.40
1:C:101:THR:O	1:C:101:THR:HG23	2.21	0.40
1:A:110:ASN:H	1:A:196:TYR:HH	1.63	0.40
1:B:202:MET:HA	1:B:573:GLN:HE22	1.87	0.40
1:B:756:TRP:CD1	1:B:864:MET:HE1	2.56	0.40
1:C:755:ARG:HB2	1:C:769:TRP:HB3	2.02	0.40
1:D:37:ARG:HH11	1:D:218:PRO:CG	2.05	0.40
1:C:376:ILE:HG12	1:C:398:TRP:CZ3	2.56	0.40
1:D:376:ILE:HG12	1:D:398:TRP:CZ3	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:382:ASN:O	1:A:383:ASN:CB	2.64	0.40
1:B:382:ASN:O	1:B:383:ASN:CB	2.64	0.40
1:B:607:VAL:HG11	1:B:617:LEU:HD12	1.92	0.40
1:D:942:ARG:HD2	1:D:942:ARG:N	2.37	0.40
1:B:474:TRP:CB	1:C:470:ALA:HB2	2.50	0.40
1:C:63:PHE:N	1:C:63:PHE:CD1	2.89	0.40
1:C:989:PHE:CD1	1:C:989:PHE:N	2.90	0.40
1:C:35:SER:HB3	1:C:215:LEU:CD1	2.48	0.40
1:C:1013:ARG:HG3	1:C:1013:ARG:HH11	1.87	0.40
1:D:1013:ARG:HH11	1:D:1013:ARG:HG3	1.87	0.40
1:C:763:GLY:HA3	1:C:840:HIS:NE2	2.37	0.40
1:B:742:THR:HG22	1:B:760:ARG:HH22	1.69	0.40
1:B:246:MET:HG3	1:B:250:LEU:HD21	2.02	0.40
1:B:251:ARG:HG3	1:B:253:TYR:CZ	2.56	0.40
1:A:246:MET:HG3	1:A:250:LEU:HD21	2.02	0.40
1:D:7:LEU:HD12	1:D:74:LEU:CD1	2.46	0.40
1:A:416:GLU:HG3	1:A:417:THR:N	2.35	0.40
1:B:390:SER:OG	1:B:391:HIS:ND1	2.42	0.40
1:B:88:SER:CB	1:B:93:HIS:CE1	3.03	0.40
1:D:769:TRP:CZ2	1:D:774:LYS:HE2	2.55	0.40
1:D:22:THR:O	1:D:163:GLN:N	2.55	0.40
1:C:601:PHE:HE1	1:C:998:SER:CB	2.29	0.40
1:B:354:VAL:HG21	1:B:570:TRP:HB2	2.03	0.40
1:A:430:PRO:HB2	1:D:441:THR:CG2	2.52	0.40
1:A:485:GLN:HB3	1:A:498:ILE:HG13	2.04	0.40
1:B:485:GLN:HB3	1:B:498:ILE:HG13	2.04	0.40
1:D:694:LEU:C	1:D:722:LEU:HB2	2.41	0.40
1:A:719:GLN:CD	1:A:915:PHE:H	2.25	0.40
1:C:942:ARG:N	1:C:942:ARG:HD2	2.37	0.40
1:D:2:MET:SD	1:D:2:MET:C	3.00	0.40
1:D:63:PHE:N	1:D:63:PHE:CD1	2.89	0.40
1:B:319:ASP:N	1:B:320:GLY:HA2	2.36	0.40
1:A:319:ASP:N	1:A:320:GLY:HA2	2.36	0.40
1:B:629:PHE:CB	1:B:720:TRP:CZ2	3.04	0.40
1:D:989:PHE:N	1:D:989:PHE:CD1	2.90	0.40
1:A:649:ASN:CG	1:A:704:ASN:OD1	2.59	0.40
1:B:424:ASN:HB2	1:B:464:HIS:O	2.21	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	1020/1024 (100%)	993 (97%)	25 (2%)	2 (0%)	52	88
1	B	1020/1024 (100%)	993 (97%)	25 (2%)	2 (0%)	52	88
1	C	1020/1024 (100%)	993 (97%)	25 (2%)	2 (0%)	52	88
1	D	1020/1024 (100%)	993 (97%)	25 (2%)	2 (0%)	52	88
All	All	4080/4096 (100%)	3972 (97%)	100 (2%)	8 (0%)	56	88

All (8) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	511	PRO
1	B	511	PRO
1	C	511	PRO
1	D	511	PRO
1	A	688	PRO
1	B	688	PRO
1	C	688	PRO
1	D	688	PRO

5.3.2 Protein sidechains

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	874/876 (100%)	797 (91%)	77 (9%)	12	45
1	B	874/876 (100%)	797 (91%)	77 (9%)	12	45

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	C	874/876 (100%)	797 (91%)	77 (9%)	12	45
1	D	874/876 (100%)	797 (91%)	77 (9%)	12	45
All	All	3496/3504 (100%)	3188 (91%)	308 (9%)	17	45

All (308) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	13	ARG
1	A	23	GLN
1	A	33	PHE
1	A	50	GLN
1	A	52	ARG
1	A	82	ASP
1	A	90	TRP
1	A	118	ASN
1	A	166	ARG
1	A	169	SER
1	A	181	GLU
1	A	189	LEU
1	A	197	LEU
1	A	200	GLN
1	A	202	MET
1	A	205	MET
1	A	209	PHE
1	A	210	ARG
1	A	221	GLN
1	A	225	PHE
1	A	230	ARG
1	A	232	ASN
1	A	240	LEU
1	A	246	MET
1	A	251	ARG
1	A	255	ARG
1	A	259	SER
1	A	262	GLN
1	A	266	GLN
1	A	274	PHE
1	A	333	ARG
1	A	339	ASN
1	A	341	LEU
1	A	344	LEU

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Mol	Chain	Res	Type
1	A	352	ARG
1	A	356	ARG
1	A	357	HIS
1	A	375	ASP
1	A	380	LYS
1	A	381	GLN
1	A	391	HIS
1	A	407	LEU
1	A	418	HIS
1	A	420	MET
1	A	439	ARG
1	A	462	SER
1	A	469	ASP
1	A	471	LEU
1	A	561	ARG
1	A	592	PHE
1	A	599	ARG
1	A	601	PHE
1	A	611	ARG
1	A	624	GLN
1	A	647	SER
1	A	667	GLU
1	A	694	LEU
1	A	702	GLN
1	A	708	TRP
1	A	786	ARG
1	A	815	HIS
1	A	826	THR
1	A	836	ILE
1	A	850	PHE
1	A	853	ARG
1	A	876	THR
1	A	881	ARG
1	A	890	GLN
1	A	904	GLU
1	A	910	LEU
1	A	944	LEU
1	A	962	TYR
1	A	979	GLU
1	A	989	PHE
1	A	999	TRP
1	A	1009	LEU

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Mol	Chain	Res	Type
1	A	1020	TRP
1	B	13	ARG
1	B	23	GLN
1	B	33	PHE
1	B	50	GLN
1	B	52	ARG
1	B	82	ASP
1	B	90	TRP
1	B	118	ASN
1	B	166	ARG
1	B	169	SER
1	B	181	GLU
1	B	189	LEU
1	B	197	LEU
1	B	200	GLN
1	B	202	MET
1	B	205	MET
1	B	209	PHE
1	B	210	ARG
1	B	221	GLN
1	B	225	PHE
1	B	230	ARG
1	B	232	ASN
1	B	240	LEU
1	B	246	MET
1	B	251	ARG
1	B	255	ARG
1	B	259	SER
1	B	262	GLN
1	B	266	GLN
1	B	274	PHE
1	B	333	ARG
1	B	339	ASN
1	B	341	LEU
1	B	344	LEU
1	B	352	ARG
1	B	356	ARG
1	B	357	HIS
1	B	375	ASP
1	B	380	LYS
1	B	381	GLN
1	B	391	HIS

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Mol	Chain	Res	Type
1	B	407	LEU
1	B	418	HIS
1	B	420	MET
1	B	439	ARG
1	B	462	SER
1	B	469	ASP
1	B	471	LEU
1	B	561	ARG
1	B	592	PHE
1	B	599	ARG
1	B	601	PHE
1	B	611	ARG
1	B	624	GLN
1	B	647	SER
1	B	667	GLU
1	B	694	LEU
1	B	702	GLN
1	B	708	TRP
1	B	786	ARG
1	B	815	HIS
1	B	826	THR
1	B	836	ILE
1	B	850	PHE
1	B	853	ARG
1	B	876	THR
1	B	881	ARG
1	B	890	GLN
1	B	904	GLU
1	B	910	LEU
1	B	944	LEU
1	B	962	TYR
1	B	979	GLU
1	B	989	PHE
1	B	999	TRP
1	B	1009	LEU
1	B	1020	TRP
1	C	13	ARG
1	C	23	GLN
1	C	33	PHE
1	C	50	GLN
1	C	52	ARG
1	C	82	ASP

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Mol	Chain	Res	Type
1	C	90	TRP
1	C	118	ASN
1	C	166	ARG
1	C	169	SER
1	C	181	GLU
1	C	189	LEU
1	C	197	LEU
1	C	200	GLN
1	C	202	MET
1	C	205	MET
1	C	209	PHE
1	C	210	ARG
1	C	221	GLN
1	C	225	PHE
1	C	230	ARG
1	C	232	ASN
1	C	240	LEU
1	C	246	MET
1	C	251	ARG
1	C	255	ARG
1	C	259	SER
1	C	262	GLN
1	C	266	GLN
1	C	274	PHE
1	C	333	ARG
1	C	339	ASN
1	C	341	LEU
1	C	344	LEU
1	C	352	ARG
1	C	356	ARG
1	C	357	HIS
1	C	375	ASP
1	C	380	LYS
1	C	381	GLN
1	C	391	HIS
1	C	407	LEU
1	C	418	HIS
1	C	420	MET
1	C	439	ARG
1	C	462	SER
1	C	469	ASP
1	C	471	LEU

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Mol	Chain	Res	Type
1	C	561	ARG
1	C	592	PHE
1	C	599	ARG
1	C	601	PHE
1	C	611	ARG
1	C	624	GLN
1	C	647	SER
1	C	667	GLU
1	C	694	LEU
1	C	702	GLN
1	C	708	TRP
1	C	786	ARG
1	C	815	HIS
1	C	826	THR
1	C	836	ILE
1	C	850	PHE
1	C	853	ARG
1	C	876	THR
1	C	881	ARG
1	C	890	GLN
1	C	904	GLU
1	C	910	LEU
1	C	944	LEU
1	C	962	TYR
1	C	979	GLU
1	C	989	PHE
1	C	999	TRP
1	C	1009	LEU
1	C	1020	TRP
1	D	13	ARG
1	D	23	GLN
1	D	33	PHE
1	D	50	GLN
1	D	52	ARG
1	D	82	ASP
1	D	90	TRP
1	D	118	ASN
1	D	166	ARG
1	D	169	SER
1	D	181	GLU
1	D	189	LEU
1	D	197	LEU

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Mol	Chain	Res	Type
1	D	200	GLN
1	D	202	MET
1	D	205	MET
1	D	209	PHE
1	D	210	ARG
1	D	221	GLN
1	D	225	PHE
1	D	230	ARG
1	D	232	ASN
1	D	240	LEU
1	D	246	MET
1	D	251	ARG
1	D	255	ARG
1	D	259	SER
1	D	262	GLN
1	D	266	GLN
1	D	274	PHE
1	D	333	ARG
1	D	339	ASN
1	D	341	LEU
1	D	344	LEU
1	D	352	ARG
1	D	356	ARG
1	D	357	HIS
1	D	375	ASP
1	D	380	LYS
1	D	381	GLN
1	D	391	HIS
1	D	407	LEU
1	D	418	HIS
1	D	420	MET
1	D	439	ARG
1	D	462	SER
1	D	469	ASP
1	D	471	LEU
1	D	561	ARG
1	D	592	PHE
1	D	599	ARG
1	D	601	PHE
1	D	611	ARG
1	D	624	GLN
1	D	647	SER

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Mol	Chain	Res	Type
1	D	667	GLU
1	D	694	LEU
1	D	702	GLN
1	D	708	TRP
1	D	786	ARG
1	D	815	HIS
1	D	826	THR
1	D	836	ILE
1	D	850	PHE
1	D	853	ARG
1	D	876	THR
1	D	881	ARG
1	D	890	GLN
1	D	904	GLU
1	D	910	LEU
1	D	944	LEU
1	D	962	TYR
1	D	979	GLU
1	D	989	PHE
1	D	999	TRP
1	D	1009	LEU
1	D	1020	TRP

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (160) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	12	GLN
1	A	18	ASN
1	A	23	GLN
1	A	50	GLN
1	A	89	ASN
1	A	91	GLN
1	A	93	HIS
1	A	163	GLN
1	A	216	HIS
1	A	221	GLN
1	A	266	GLN
1	A	360	HIS
1	A	363	HIS
1	A	394	ASN
1	A	445	GLN
1	A	460	ASN

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Mol	Chain	Res	Type
1	A	467	ASN
1	A	468	HIS
1	A	563	GLN
1	A	573	GLN
1	A	623	GLN
1	A	624	GLN
1	A	628	GLN
1	A	646	HIS
1	A	649	ASN
1	A	653	HIS
1	A	693	GLN
1	A	713	HIS
1	A	725	ASN
1	A	783	GLN
1	A	815	HIS
1	A	824	GLN
1	A	840	HIS
1	A	843	GLN
1	A	844	HIS
1	A	890	GLN
1	A	905	ASN
1	A	950	GLN
1	A	1008	GLN
1	A	1022	GLN
1	B	12	GLN
1	B	18	ASN
1	B	23	GLN
1	B	50	GLN
1	B	89	ASN
1	B	93	HIS
1	B	163	GLN
1	B	216	HIS
1	B	221	GLN
1	B	266	GLN
1	B	360	HIS
1	B	363	HIS
1	B	394	ASN
1	B	445	GLN
1	B	460	ASN
1	B	467	ASN
1	B	468	HIS
1	B	563	GLN

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Mol	Chain	Res	Type
1	B	573	GLN
1	B	623	GLN
1	B	624	GLN
1	B	628	GLN
1	B	646	HIS
1	B	649	ASN
1	B	653	HIS
1	B	693	GLN
1	B	713	HIS
1	B	725	ASN
1	B	783	GLN
1	B	815	HIS
1	B	824	GLN
1	B	840	HIS
1	B	843	GLN
1	B	844	HIS
1	B	890	GLN
1	B	905	ASN
1	B	950	GLN
1	B	1008	GLN
1	B	1022	GLN
1	C	12	GLN
1	C	18	ASN
1	C	23	GLN
1	C	50	GLN
1	C	89	ASN
1	C	91	GLN
1	C	93	HIS
1	C	163	GLN
1	C	216	HIS
1	C	221	GLN
1	C	266	GLN
1	C	360	HIS
1	C	363	HIS
1	C	394	ASN
1	C	445	GLN
1	C	460	ASN
1	C	467	ASN
1	C	468	HIS
1	C	563	GLN
1	C	573	GLN
1	C	623	GLN

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Mol	Chain	Res	Type
1	C	624	GLN
1	C	628	GLN
1	C	646	HIS
1	C	649	ASN
1	C	653	HIS
1	C	693	GLN
1	C	713	HIS
1	C	725	ASN
1	C	783	GLN
1	C	815	HIS
1	C	824	GLN
1	C	840	HIS
1	C	843	GLN
1	C	844	HIS
1	C	890	GLN
1	C	905	ASN
1	C	950	GLN
1	C	974	HIS
1	C	1008	GLN
1	C	1022	GLN
1	D	12	GLN
1	D	18	ASN
1	D	23	GLN
1	D	50	GLN
1	D	89	ASN
1	D	91	GLN
1	D	93	HIS
1	D	163	GLN
1	D	216	HIS
1	D	221	GLN
1	D	266	GLN
1	D	360	HIS
1	D	363	HIS
1	D	394	ASN
1	D	445	GLN
1	D	460	ASN
1	D	467	ASN
1	D	468	HIS
1	D	563	GLN
1	D	573	GLN
1	D	623	GLN
1	D	624	GLN

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Mol	Chain	Res	Type
1	D	628	GLN
1	D	646	HIS
1	D	649	ASN
1	D	653	HIS
1	D	693	GLN
1	D	713	HIS
1	D	725	ASN
1	D	783	GLN
1	D	815	HIS
1	D	824	GLN
1	D	840	HIS
1	D	843	GLN
1	D	844	HIS
1	D	890	GLN
1	D	905	ASN
1	D	950	GLN
1	D	1008	GLN
1	D	1022	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 4 ligands modelled in this entry, 4 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.