wwPDB EM Map/Model Validation Report (i)

Apr 10, 2016 – 01:48 PM BST

PDB ID	:	3J5Q
EMDB ID:	:	EMD-5776
Title	:	Structure of TRPV1 ion channel in complex with DkTx and RTX determined by single particle electron cryo-microscopy
Authors	:	Liao, M.; Cao, E.; Julius, D.; Cheng, Y.
Deposited on	:	2013-10-28
Resolution	:	3.80 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

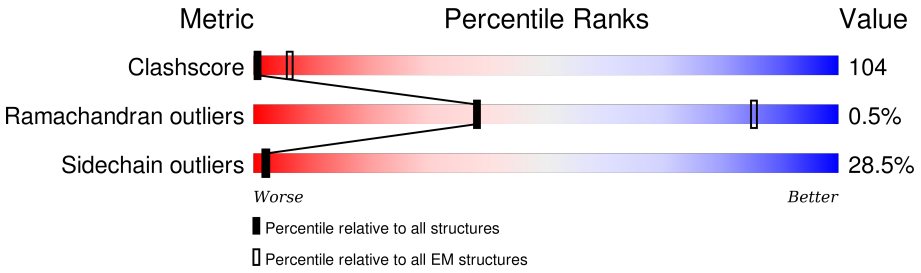
MolProbity	:	4.02b-467
Mogul	:	unknown
Percentile statistics	:	20151230.v01 (using entries in the PDB archive December 30th 2015)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP)	:	trunk27241

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 3.80 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 <=5%

Mol	Chain	Length	Quality of chain
1	B	598	39% 42% 18% .
1	D	598	39% 42% 18% .
1	E	598	39% 42% 18% .
1	G	598	39% 42% 18% .
2	A	31	32% 68%
2	C	31	32% 68%
2	F	31	32% 68%
2	H	31	32% 68%

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 18556 atoms, of which 292 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 Transient receptor potential cation channel subfamily V member 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	D	592	Total	C	N	O	S	0	0
			4409	2860	730	796	23		
1	B	592	Total	C	N	O	S	0	0
			4409	2860	730	796	23		
1	E	592	Total	C	N	O	S	0	0
			4409	2860	730	796	23		
1	G	592	Total	C	N	O	S	0	0
			4409	2860	730	796	23		

- Molecule 2 is a protein called Double-knot toxin.

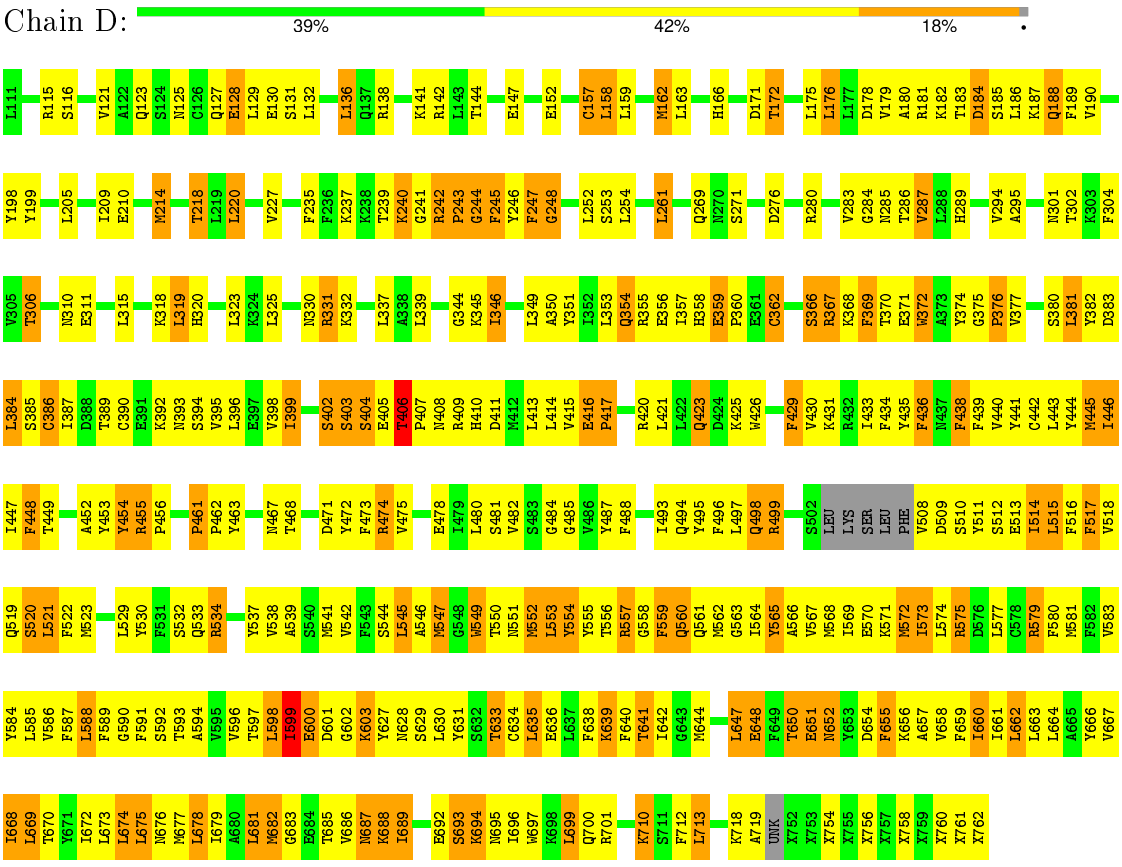
Mol	Chain	Residues	Atoms						AltConf	Trace
2	A	31	Total	C	H	N	O	S	0	0
			230	89	73	31	31	6		
2	C	31	Total	C	H	N	O	S	0	0
			230	89	73	31	31	6		
2	F	31	Total	C	H	N	O	S	0	0
			230	89	73	31	31	6		
2	H	31	Total	C	H	N	O	S	0	0
			230	89	73	31	31	6		

3 Residue-property plots (i)

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.

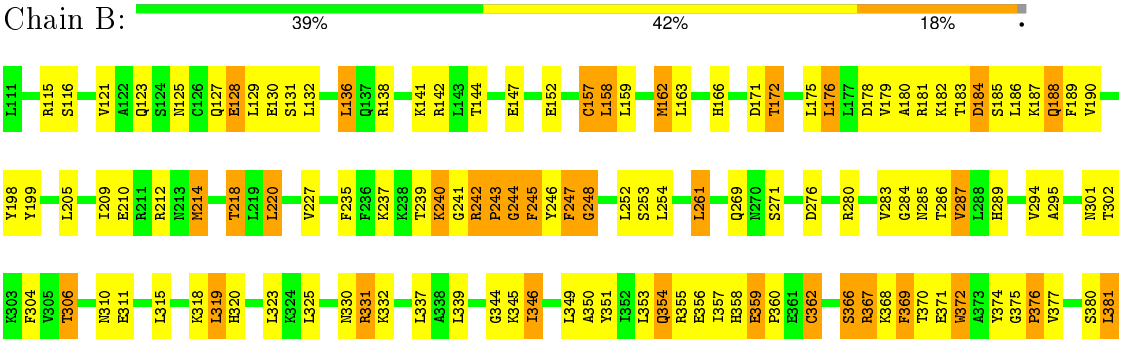
- Molecule 1: Transient receptor potential cation channel subfamily V member 1

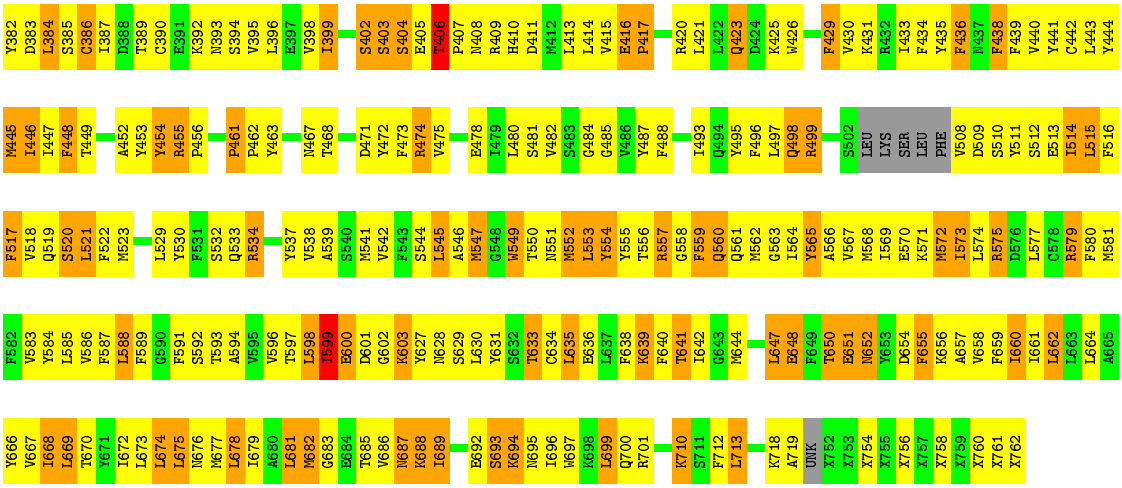
Chain D:



- Molecule 1: Transient receptor potential cation channel subfamily V member 1

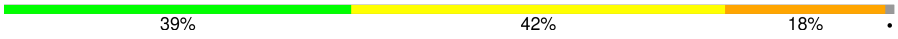
Chain B:

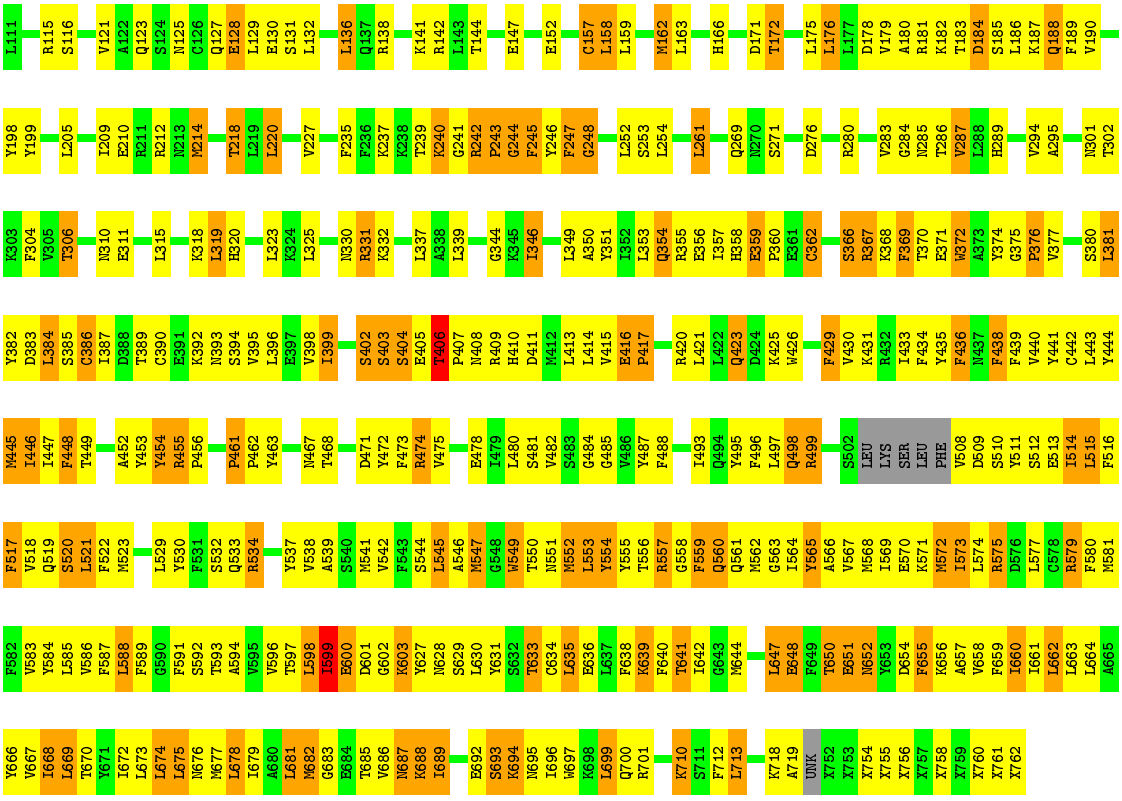




• Molecule 1: Transient receptor potential cation channel subfamily V member 1

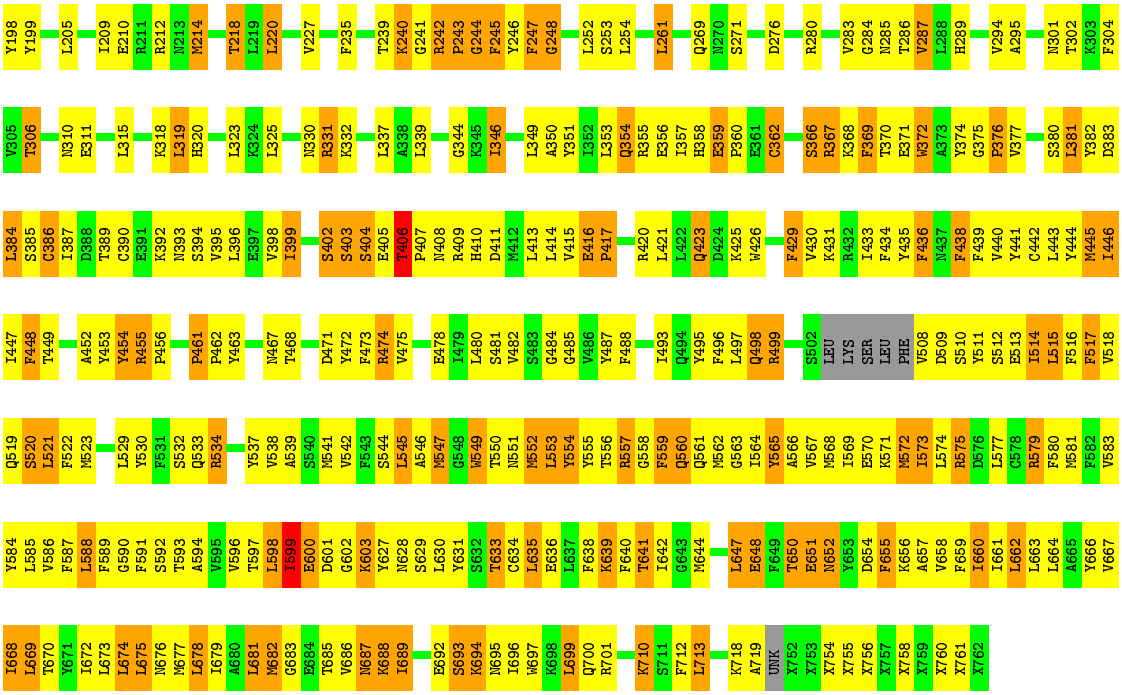
Chain E:





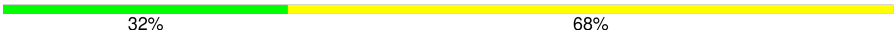
• Molecule 1: Transient receptor potential cation channel subfamily V member 1

Chain G:



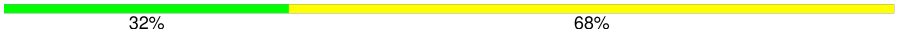
- Molecule 2: Double-knot toxin

Chain A:



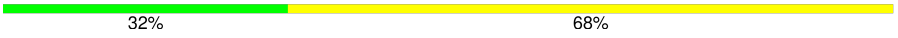
- Molecule 2: Double-knot toxin

Chain C:



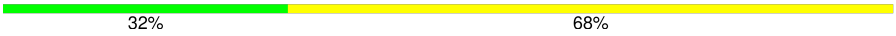
- Molecule 2: Double-knot toxin

Chain F:



- Molecule 2: Double-knot toxin

Chain H:



4 Experimental information (i)

Property	Value	Source
Reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	Depositor
Number of images	36158	Depositor
Resolution determination method	Gold standard FSC at 0.143 cut-off	Depositor
CTF correction method	Each particle	Depositor
Microscope	FEI POLARA 300	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	21	Depositor
Minimum defocus (nm)	1500	Depositor
Maximum defocus (nm)	3000	Depositor
Magnification	31000	Depositor
Image detector	K2 Summit	Depositor

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >2	RMSZ	#$\|Z\|$ >2
1	B	0.47	3/4448 (0.1%)	0.64	3/6041 (0.0%)
1	D	0.47	3/4448 (0.1%)	0.64	3/6041 (0.0%)
1	E	0.47	3/4448 (0.1%)	0.64	3/6041 (0.0%)
1	G	0.47	3/4448 (0.1%)	0.64	3/6041 (0.0%)
All	All	0.47	12/17792 (0.1%)	0.64	12/24164 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	B	0	7
1	D	0	7
1	E	0	7
1	G	0	7
All	All	0	28

All (12) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	162	MET	CG-SD	7.66	2.01	1.81
1	E	162	MET	CG-SD	7.66	2.01	1.81
1	G	162	MET	CG-SD	7.66	2.01	1.81
1	B	162	MET	CG-SD	7.64	2.01	1.81
1	E	214	MET	CG-SD	6.37	1.97	1.81
1	G	214	MET	CG-SD	6.33	1.97	1.81
1	D	214	MET	CG-SD	6.31	1.97	1.81
1	B	214	MET	CG-SD	6.31	1.97	1.81
1	D	417	PRO	N-CD	5.04	1.54	1.47
1	E	417	PRO	N-CD	5.04	1.54	1.47
1	B	417	PRO	N-CD	5.02	1.54	1.47
1	G	417	PRO	N-CD	5.01	1.54	1.47

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	406	THR	C-N-CD	6.28	141.60	128.40
1	B	406	THR	C-N-CD	6.27	141.57	128.40
1	G	406	THR	C-N-CD	6.27	141.56	128.40
1	E	406	THR	C-N-CD	6.26	141.54	128.40
1	D	416	GLU	C-N-CD	5.90	140.80	128.40
1	E	416	GLU	C-N-CD	5.90	140.80	128.40
1	B	416	GLU	C-N-CD	5.89	140.78	128.40
1	G	416	GLU	C-N-CD	5.89	140.77	128.40
1	G	184	ASP	CB-CG-OD2	5.21	122.99	118.30
1	B	184	ASP	CB-CG-OD2	5.18	122.96	118.30
1	E	184	ASP	CB-CG-OD2	5.18	122.96	118.30
1	D	184	ASP	CB-CG-OD2	5.14	122.93	118.30

There are no chirality outliers.

All (28) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	B	243	PRO	Peptide
1	B	244	GLY	Peptide
1	B	247	PHE	Peptide
1	B	248	GLY	Peptide
1	B	376	PRO	Peptide
1	B	650	THR	Peptide
1	B	693	SER	Mainchain
1	D	243	PRO	Peptide
1	D	244	GLY	Peptide
1	D	247	PHE	Peptide
1	D	248	GLY	Peptide
1	D	376	PRO	Peptide
1	D	650	THR	Peptide
1	D	693	SER	Mainchain
1	E	243	PRO	Peptide
1	E	244	GLY	Peptide
1	E	247	PHE	Peptide
1	E	248	GLY	Peptide
1	E	376	PRO	Peptide
1	E	650	THR	Peptide
1	E	693	SER	Mainchain
1	G	243	PRO	Peptide
1	G	244	GLY	Peptide
1	G	247	PHE	Peptide

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Mol	Chain	Res	Type	Group
1	G	248	GLY	Peptide
1	G	376	PRO	Peptide
1	G	650	THR	Peptide
1	G	693	SER	Mainchain

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	B	4409	0	4101	960	0
1	D	4409	0	4101	971	0
1	E	4409	0	4101	976	0
1	G	4409	0	4101	985	0
2	A	157	73	28	40	0
2	C	157	73	28	40	0
2	F	157	73	28	41	0
2	H	157	73	28	43	0
All	All	18264	292	16516	3602	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 104.

All (3602) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:426:TRP:HD1	1:E:430:VAL:CB	1.07	1.66
1:B:443:LEU:HA	1:B:446:ILE:CD1	1.18	1.65
1:D:198:TYR:CD2	1:G:372:TRP:CZ3	1.76	1.64
1:G:426:TRP:HD1	1:G:430:VAL:CB	1.07	1.63
1:G:426:TRP:CD1	1:G:430:VAL:HB	1.11	1.62
1:B:426:TRP:CD1	1:B:430:VAL:HB	1.11	1.61
1:E:444:TYR:CZ	1:E:484:GLY:HA3	1.09	1.61
1:G:443:LEU:HA	1:G:446:ILE:CD1	1.18	1.61
1:G:444:TYR:CZ	1:G:484:GLY:HA3	1.09	1.61
1:E:443:LEU:HA	1:E:446:ILE:CD1	1.18	1.60
1:D:444:TYR:CZ	1:D:484:GLY:HA3	1.09	1.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:426:TRP:CD1	1:E:430:VAL:HB	1.11	1.59
1:B:426:TRP:HD1	1:B:430:VAL:CB	1.07	1.59
1:D:426:TRP:CD1	1:D:430:VAL:HB	1.11	1.59
1:D:443:LEU:HA	1:D:446:ILE:CD1	1.18	1.59
1:E:511:TYR:CD1	1:E:570:GLU:HG3	1.38	1.59
1:B:511:TYR:CD1	1:B:570:GLU:HG3	1.38	1.58
1:G:631:TYR:HD2	2:A:24:UNK:CA	0.96	1.58
1:B:444:TYR:CZ	1:B:484:GLY:HA3	1.09	1.58
1:B:631:TYR:HD2	2:F:24:UNK:CA	0.93	1.57
1:D:426:TRP:HD1	1:D:430:VAL:CB	1.07	1.57
1:D:631:TYR:HD2	2:C:24:UNK:CA	0.94	1.57
1:D:198:TYR:CE2	1:G:372:TRP:CE3	1.90	1.56
1:G:511:TYR:CD1	1:G:570:GLU:HG3	1.38	1.54
1:D:511:TYR:CD1	1:D:570:GLU:HG3	1.38	1.53
1:E:631:TYR:HD2	2:H:24:UNK:CA	0.91	1.52
1:E:657:ALA:CA	1:E:660:ILE:HD11	1.39	1.52
1:D:198:TYR:CE2	1:G:372:TRP:CZ3	1.96	1.51
1:G:657:ALA:CA	1:G:660:ILE:HD11	1.39	1.51
1:D:693:SER:HA	1:D:696:ILE:CD1	1.41	1.50
1:E:693:SER:HA	1:E:696:ILE:CD1	1.41	1.50
1:B:657:ALA:CA	1:B:660:ILE:HD11	1.39	1.48
1:D:375:GLY:N	1:B:210:GLU:HG2	1.27	1.48
1:D:657:ALA:CA	1:D:660:ILE:HD11	1.39	1.48
1:E:693:SER:HA	1:E:696:ILE:CG1	1.45	1.47
1:B:693:SER:HA	1:B:696:ILE:CD1	1.41	1.47
1:B:693:SER:HA	1:B:696:ILE:CG1	1.44	1.47
1:G:693:SER:HA	1:G:696:ILE:CD1	1.41	1.46
1:G:693:SER:HA	1:G:696:ILE:CG1	1.44	1.46
1:B:758:UNK:CB	1:E:245:PHE:HB2	1.44	1.46
1:D:758:UNK:CB	1:B:245:PHE:HB2	1.44	1.46
1:E:758:UNK:CB	1:G:245:PHE:HB2	1.43	1.46
1:G:584:TYR:OH	1:G:641:THR:CG2	1.63	1.46
1:D:584:TYR:OH	1:D:641:THR:CG2	1.63	1.45
1:E:444:TYR:CZ	1:E:484:GLY:CA	1.99	1.44
1:B:444:TYR:CZ	1:B:484:GLY:CA	1.99	1.43
1:B:375:GLY:N	1:E:210:GLU:HG2	1.27	1.43
1:B:584:TYR:OH	1:B:641:THR:CG2	1.63	1.43
1:D:693:SER:HA	1:D:696:ILE:CG1	1.44	1.43
1:B:511:TYR:HD1	1:B:570:GLU:CG	1.33	1.42
1:D:444:TYR:CZ	1:D:484:GLY:CA	1.99	1.42
1:G:444:TYR:CZ	1:G:484:GLY:CA	1.99	1.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:657:ALA:O	1:E:661:ILE:CD1	1.67	1.42
1:D:511:TYR:HD1	1:D:570:GLU:CG	1.33	1.42
1:G:631:TYR:CD2	2:A:24:UNK:HA	0.91	1.41
1:G:657:ALA:O	1:G:661:ILE:CD1	1.67	1.41
1:E:511:TYR:HD1	1:E:570:GLU:CG	1.33	1.41
1:E:375:GLY:N	1:G:210:GLU:HG2	1.28	1.41
1:B:631:TYR:CD2	2:F:24:UNK:HA	0.88	1.41
1:G:511:TYR:CE1	1:G:570:GLU:HG3	1.56	1.41
1:D:198:TYR:HE2	1:G:372:TRP:CE3	1.28	1.40
1:E:631:TYR:CD2	2:H:24:UNK:HA	0.88	1.40
1:D:245:PHE:HB2	1:G:758:UNK:CB	1.49	1.40
1:D:631:TYR:CD2	2:C:24:UNK:HA	0.89	1.40
1:D:564:ILE:HG12	1:D:693:SER:CB	1.52	1.39
1:B:657:ALA:O	1:B:661:ILE:CD1	1.67	1.39
1:G:511:TYR:HD1	1:G:570:GLU:CG	1.32	1.39
1:D:511:TYR:CD1	1:D:570:GLU:CG	2.05	1.39
1:B:564:ILE:HG12	1:B:693:SER:CB	1.52	1.39
1:E:511:TYR:CE1	1:E:570:GLU:HG3	1.55	1.39
1:D:511:TYR:CE1	1:D:570:GLU:HG3	1.56	1.39
1:G:657:ALA:HA	1:G:660:ILE:CD1	1.51	1.38
1:G:564:ILE:HG12	1:G:693:SER:CB	1.52	1.38
1:G:444:TYR:OH	1:G:484:GLY:CA	1.70	1.38
1:B:657:ALA:HA	1:B:660:ILE:CD1	1.51	1.38
1:E:564:ILE:HG12	1:E:693:SER:CB	1.53	1.38
1:D:657:ALA:O	1:D:661:ILE:CD1	1.67	1.38
1:B:571:LYS:HE3	1:B:575:ARG:NH1	1.37	1.38
1:E:511:TYR:CD1	1:E:570:GLU:CG	2.05	1.38
1:E:657:ALA:HA	1:E:660:ILE:CD1	1.51	1.38
1:E:571:LYS:HE3	1:E:575:ARG:NH1	1.37	1.37
1:B:511:TYR:CE1	1:B:570:GLU:HG3	1.55	1.37
1:B:631:TYR:HB3	2:F:24:UNK:CB	1.54	1.37
1:G:571:LYS:HE3	1:G:575:ARG:NH1	1.37	1.37
1:D:657:ALA:HA	1:D:660:ILE:CD1	1.51	1.37
1:D:210:GLU:HG2	1:G:375:GLY:N	1.35	1.36
1:B:521:LEU:HD13	1:B:522:PHE:N	1.39	1.36
1:E:444:TYR:OH	1:E:484:GLY:CA	1.70	1.36
1:B:511:TYR:CD1	1:B:570:GLU:CG	2.05	1.36
1:G:521:LEU:HD13	1:G:522:PHE:N	1.38	1.35
1:D:521:LEU:HD13	1:D:522:PHE:N	1.38	1.35
1:D:631:TYR:HB3	2:C:24:UNK:CB	1.55	1.35
1:D:580:PHE:CZ	1:D:674:LEU:HD13	1.60	1.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:198:TYR:CD2	1:G:372:TRP:CH2	2.14	1.35
1:D:444:TYR:OH	1:D:484:GLY:CA	1.70	1.35
1:B:375:GLY:H	1:E:210:GLU:CG	1.38	1.35
1:D:571:LYS:HE3	1:D:575:ARG:NH1	1.37	1.35
1:D:693:SER:CA	1:D:696:ILE:HD11	1.56	1.34
1:G:693:SER:CA	1:G:696:ILE:HD11	1.56	1.34
1:D:198:TYR:HD2	1:G:372:TRP:CH2	1.42	1.34
1:B:444:TYR:OH	1:B:484:GLY:CA	1.70	1.34
1:B:656:LYS:O	1:B:660:ILE:CD1	1.75	1.34
1:D:375:GLY:H	1:B:210:GLU:CG	1.38	1.34
1:E:580:PHE:CZ	1:E:674:LEU:HD13	1.60	1.34
1:G:511:TYR:CD1	1:G:570:GLU:CG	2.05	1.34
1:G:656:LYS:O	1:G:660:ILE:CD1	1.75	1.34
1:G:580:PHE:CZ	1:G:674:LEU:HD13	1.60	1.34
1:B:580:PHE:CZ	1:B:674:LEU:HD13	1.60	1.34
1:E:693:SER:CA	1:E:696:ILE:HD11	1.56	1.33
1:E:521:LEU:HD13	1:E:522:PHE:N	1.38	1.33
1:D:656:LYS:O	1:D:660:ILE:CD1	1.75	1.33
1:G:631:TYR:HB3	2:A:24:UNK:CB	1.59	1.33
1:E:656:LYS:O	1:E:660:ILE:CD1	1.75	1.32
1:E:631:TYR:HB3	2:H:24:UNK:CB	1.58	1.32
1:B:693:SER:CA	1:B:696:ILE:HD11	1.56	1.32
1:G:443:LEU:CA	1:G:446:ILE:CD1	2.08	1.31
1:B:568:MET:HB3	1:B:689:ILE:CD1	1.60	1.31
1:G:568:MET:HB3	1:G:689:ILE:CD1	1.60	1.31
1:E:443:LEU:CA	1:E:446:ILE:CD1	2.08	1.31
1:E:375:GLY:H	1:G:210:GLU:CG	1.41	1.30
1:E:591:PHE:CD2	1:E:666:TYR:CD1	2.19	1.30
1:B:685:THR:O	1:B:689:ILE:HG22	1.19	1.30
1:D:443:LEU:CA	1:D:446:ILE:CD1	2.08	1.30
1:B:591:PHE:CD2	1:B:666:TYR:CD1	2.19	1.30
1:G:591:PHE:CD2	1:G:666:TYR:CD1	2.19	1.29
1:E:568:MET:HB3	1:E:689:ILE:CD1	1.60	1.29
1:B:443:LEU:CA	1:B:446:ILE:CD1	2.08	1.29
1:D:568:MET:HB3	1:D:689:ILE:CD1	1.60	1.29
1:D:210:GLU:CG	1:G:375:GLY:H	1.44	1.28
1:D:591:PHE:CD2	1:D:666:TYR:CD1	2.19	1.28
1:E:685:THR:O	1:E:689:ILE:HG22	1.19	1.28
1:G:580:PHE:CZ	1:G:674:LEU:CD1	2.17	1.28
1:B:359:GLU:CD	1:B:360:PRO:HD2	1.53	1.28
1:E:542:VAL:HG21	1:G:598:LEU:CD2	1.64	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:580:PHE:CZ	1:E:674:LEU:CD1	2.17	1.28
1:D:685:THR:O	1:D:689:ILE:HG22	1.19	1.27
1:B:580:PHE:CZ	1:B:674:LEU:CD1	2.17	1.27
1:D:359:GLU:CD	1:D:360:PRO:HD2	1.53	1.27
1:G:359:GLU:CD	1:G:360:PRO:HD2	1.53	1.26
1:G:685:THR:O	1:G:689:ILE:HG22	1.19	1.26
1:D:580:PHE:CZ	1:D:674:LEU:CD1	2.17	1.26
1:B:461:PRO:HA	1:B:530:TYR:CE1	1.71	1.26
1:E:461:PRO:HA	1:E:530:TYR:CE1	1.71	1.26
1:E:359:GLU:CD	1:E:360:PRO:HD2	1.53	1.25
1:G:461:PRO:HA	1:G:530:TYR:CE1	1.71	1.24
1:D:482:VAL:CA	1:D:523:MET:HE1	1.65	1.24
1:E:564:ILE:CG1	1:E:693:SER:HB2	1.68	1.24
1:D:575:ARG:O	1:D:579:ARG:HD3	1.37	1.24
1:G:550:THR:O	1:G:553:LEU:HD23	1.08	1.24
1:B:550:THR:O	1:B:553:LEU:HD23	1.08	1.24
1:B:564:ILE:CG1	1:B:693:SER:HB2	1.68	1.23
1:D:461:PRO:HA	1:D:530:TYR:CE1	1.71	1.23
1:E:550:THR:O	1:E:553:LEU:HD23	1.08	1.23
1:D:657:ALA:CA	1:D:660:ILE:CD1	2.13	1.23
1:B:575:ARG:O	1:B:579:ARG:HD3	1.37	1.23
1:G:369:PHE:O	1:G:381:LEU:HB2	1.38	1.23
1:E:369:PHE:O	1:E:381:LEU:HB2	1.38	1.23
1:E:591:PHE:CD2	1:E:666:TYR:HD1	1.55	1.22
1:D:359:GLU:OE2	1:D:360:PRO:HD2	1.39	1.22
1:G:591:PHE:CD2	1:G:666:TYR:HD1	1.55	1.22
1:D:426:TRP:CZ3	1:D:701:ARG:NH1	2.07	1.22
1:D:369:PHE:O	1:D:381:LEU:HB2	1.38	1.22
1:G:564:ILE:CG1	1:G:693:SER:HB2	1.68	1.22
1:B:482:VAL:HA	1:B:523:MET:CE	1.69	1.22
1:G:426:TRP:CZ3	1:G:701:ARG:NH1	2.07	1.21
1:D:564:ILE:CG1	1:D:693:SER:HB2	1.68	1.21
1:E:511:TYR:CE2	1:E:515:LEU:HD11	1.74	1.21
1:D:511:TYR:CE2	1:D:515:LEU:HD11	1.74	1.21
1:B:426:TRP:CZ3	1:B:701:ARG:NH1	2.07	1.21
1:B:443:LEU:CA	1:B:446:ILE:HD12	1.70	1.21
1:D:482:VAL:HA	1:D:523:MET:CE	1.69	1.21
1:G:482:VAL:HA	1:G:523:MET:CE	1.69	1.21
1:B:511:TYR:CE2	1:B:515:LEU:HD11	1.74	1.21
1:E:426:TRP:CZ3	1:E:701:ARG:NH1	2.07	1.21
1:E:482:VAL:HA	1:E:523:MET:CE	1.69	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:575:ARG:O	1:E:579:ARG:HD3	1.37	1.20
1:B:511:TYR:HD1	1:B:570:GLU:HG2	1.06	1.20
1:G:511:TYR:CE2	1:G:515:LEU:HD11	1.74	1.20
1:D:672:ILE:O	1:D:676:ASN:ND2	1.75	1.20
1:E:572:MET:CB	1:G:673:LEU:HD11	1.71	1.20
1:E:591:PHE:CG	1:E:666:TYR:CD1	2.30	1.20
1:D:591:PHE:CE2	1:D:666:TYR:HB2	1.76	1.20
1:B:591:PHE:CE2	1:B:666:TYR:HB2	1.76	1.20
1:D:591:PHE:CG	1:D:666:TYR:CD1	2.30	1.20
1:B:359:GLU:OE2	1:B:360:PRO:HD2	1.39	1.20
1:G:482:VAL:HA	1:G:523:MET:HE1	1.23	1.20
1:G:657:ALA:CA	1:G:660:ILE:CD1	2.13	1.20
1:D:591:PHE:CD2	1:D:666:TYR:HD1	1.55	1.20
1:D:598:LEU:CD2	1:G:542:VAL:HG21	1.72	1.20
1:B:542:VAL:HG21	1:E:598:LEU:CD2	1.70	1.20
1:D:542:VAL:HG21	1:B:598:LEU:CD2	1.72	1.20
1:D:550:THR:O	1:D:553:LEU:HD23	1.08	1.20
1:B:372:TRP:CZ3	1:E:199:TYR:CE1	2.05	1.19
1:E:372:TRP:CZ3	1:G:199:TYR:CE1	2.09	1.19
1:G:575:ARG:O	1:G:579:ARG:HD3	1.37	1.19
1:G:591:PHE:CE2	1:G:666:TYR:HB2	1.76	1.19
1:G:591:PHE:CG	1:G:666:TYR:CD1	2.30	1.19
1:B:369:PHE:O	1:B:381:LEU:HB2	1.38	1.19
1:E:672:ILE:O	1:E:676:ASN:ND2	1.75	1.19
1:D:425:LYS:O	1:D:429:PHE:CE2	1.96	1.19
1:E:425:LYS:O	1:E:429:PHE:CE2	1.96	1.19
1:E:443:LEU:CA	1:E:446:ILE:HD12	1.70	1.19
1:B:591:PHE:CD2	1:B:666:TYR:HD1	1.55	1.19
1:B:591:PHE:CG	1:B:666:TYR:CD1	2.30	1.19
1:B:672:ILE:O	1:B:676:ASN:ND2	1.74	1.18
1:E:591:PHE:CE2	1:E:666:TYR:HB2	1.77	1.18
1:G:359:GLU:OE2	1:G:360:PRO:HD2	1.39	1.18
1:G:443:LEU:CA	1:G:446:ILE:HD12	1.70	1.18
1:D:199:TYR:CD1	1:G:372:TRP:CZ3	2.25	1.18
1:E:511:TYR:HD1	1:E:570:GLU:HG2	1.06	1.17
1:B:550:THR:O	1:B:553:LEU:CD2	1.92	1.17
1:E:550:THR:O	1:E:553:LEU:CD2	1.92	1.17
1:D:600:GLU:HG2	1:D:628:ASN:OD1	1.43	1.17
1:D:426:TRP:HA	1:D:430:VAL:HG23	1.25	1.17
1:G:425:LYS:O	1:G:429:PHE:CE2	1.96	1.17
1:G:672:ILE:O	1:G:676:ASN:ND2	1.76	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:443:LEU:CA	1:D:446:ILE:HD12	1.70	1.17
1:B:656:LYS:O	1:B:660:ILE:HD13	0.98	1.16
1:D:372:TRP:CZ3	1:B:199:TYR:CE1	2.03	1.16
1:E:600:GLU:HG2	1:E:628:ASN:OD1	1.43	1.16
1:B:600:GLU:HG2	1:B:628:ASN:OD1	1.43	1.16
1:B:482:VAL:CA	1:B:523:MET:HE1	1.75	1.16
1:G:550:THR:O	1:G:553:LEU:CD2	1.92	1.16
1:B:349:LEU:HD22	1:B:414:LEU:HD23	1.24	1.16
1:G:426:TRP:HA	1:G:430:VAL:HG23	1.25	1.16
1:B:425:LYS:O	1:B:429:PHE:CE2	1.96	1.16
1:E:482:VAL:CA	1:E:523:MET:HE1	1.73	1.16
1:G:591:PHE:CG	1:G:666:TYR:HD1	1.63	1.16
1:D:550:THR:O	1:D:553:LEU:CD2	1.92	1.16
1:E:591:PHE:CG	1:E:666:TYR:HD1	1.63	1.15
1:E:359:GLU:OE2	1:E:360:PRO:HD2	1.39	1.15
1:G:482:VAL:CA	1:G:523:MET:HE1	1.76	1.15
1:D:656:LYS:O	1:D:660:ILE:HD13	0.98	1.15
1:G:656:LYS:O	1:G:660:ILE:HD13	0.99	1.15
1:B:591:PHE:CG	1:B:666:TYR:HD1	1.63	1.15
1:D:591:PHE:CG	1:D:666:TYR:HD1	1.63	1.15
1:G:443:LEU:HA	1:G:446:ILE:HD12	1.16	1.15
1:E:656:LYS:O	1:E:660:ILE:HD13	0.98	1.15
1:B:657:ALA:CA	1:B:660:ILE:CD1	2.13	1.15
1:G:600:GLU:HG2	1:G:628:ASN:OD1	1.43	1.14
1:B:572:MET:CB	1:E:673:LEU:HD11	1.77	1.14
1:E:693:SER:CB	1:E:696:ILE:HD11	1.77	1.14
1:B:693:SER:CB	1:B:696:ILE:HD11	1.77	1.14
1:B:657:ALA:O	1:B:661:ILE:HD12	0.96	1.14
1:G:511:TYR:HD1	1:G:570:GLU:HG2	1.06	1.14
1:B:758:UNK:CB	1:E:245:PHE:CB	2.26	1.14
1:E:349:LEU:HD22	1:E:414:LEU:HD23	1.24	1.14
1:D:758:UNK:CB	1:B:245:PHE:CB	2.25	1.14
1:E:426:TRP:HA	1:E:430:VAL:HG23	1.25	1.13
1:E:443:LEU:HA	1:E:446:ILE:HD12	1.16	1.13
1:E:568:MET:HB3	1:E:689:ILE:HD12	1.28	1.13
2:A:15:UNK:SG	2:A:28:UNK:SG	1.13	1.13
2:C:15:UNK:SG	2:C:28:UNK:SG	1.13	1.13
1:G:657:ALA:O	1:G:661:ILE:HD12	0.96	1.13
1:D:511:TYR:HD1	1:D:570:GLU:HG2	1.06	1.13
1:G:337:LEU:HD21	1:G:395:VAL:CB	1.78	1.13
1:E:443:LEU:HA	1:E:446:ILE:HD11	1.13	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:444:TYR:CE1	1:E:484:GLY:HA3	1.84	1.13
1:G:444:TYR:CE1	1:G:484:GLY:HA3	1.84	1.13
1:E:657:ALA:CA	1:E:660:ILE:CD1	2.13	1.13
1:E:571:LYS:HE2	1:E:575:ARG:HG3	1.27	1.13
1:B:443:LEU:HA	1:B:446:ILE:HD11	1.13	1.12
1:B:584:TYR:OH	1:B:641:THR:HG21	0.95	1.12
1:D:481:SER:C	1:D:523:MET:HE3	1.69	1.13
1:D:584:TYR:OH	1:D:641:THR:HG21	0.95	1.12
1:G:584:TYR:OH	1:G:641:THR:HG21	0.95	1.12
1:D:657:ALA:O	1:D:661:ILE:HD12	0.96	1.12
2:F:15:UNK:SG	2:F:28:UNK:SG	1.13	1.12
2:H:15:UNK:SG	2:H:28:UNK:SG	1.13	1.12
1:G:369:PHE:O	1:G:381:LEU:CB	1.97	1.12
1:D:444:TYR:CE1	1:D:484:GLY:HA3	1.84	1.12
1:E:758:UNK:CB	1:G:245:PHE:CB	2.26	1.12
1:E:398:VAL:O	1:E:402:SER:OG	1.67	1.12
1:D:349:LEU:HD22	1:D:414:LEU:HD23	1.24	1.12
1:B:568:MET:HB3	1:B:689:ILE:HD12	1.28	1.12
1:E:369:PHE:O	1:E:381:LEU:CB	1.97	1.12
1:G:693:SER:CB	1:G:696:ILE:HD11	1.77	1.12
1:D:693:SER:CA	1:D:696:ILE:CD1	2.21	1.12
1:B:243:PRO:HB2	1:B:244:GLY:HA3	1.30	1.12
1:E:482:VAL:HA	1:E:523:MET:HE1	1.17	1.12
1:B:444:TYR:CE1	1:B:484:GLY:HA3	1.84	1.12
1:G:571:LYS:HE2	1:G:575:ARG:CG	1.80	1.12
1:D:337:LEU:HD21	1:D:395:VAL:CB	1.78	1.12
1:G:693:SER:CA	1:G:696:ILE:CD1	2.21	1.11
1:E:337:LEU:HD21	1:E:395:VAL:CB	1.78	1.11
1:G:627:TYR:CD2	1:G:633:THR:HG23	1.85	1.11
1:D:572:MET:CB	1:B:673:LEU:HD11	1.80	1.11
1:D:693:SER:HA	1:D:696:ILE:HG13	1.30	1.11
1:D:693:SER:CB	1:D:696:ILE:HD11	1.78	1.11
1:B:571:LYS:HE2	1:B:575:ARG:HG3	1.27	1.11
1:B:571:LYS:HE2	1:B:575:ARG:CG	1.80	1.11
1:D:398:VAL:O	1:D:402:SER:OG	1.67	1.11
1:G:398:VAL:O	1:G:402:SER:OG	1.67	1.11
1:E:657:ALA:O	1:E:661:ILE:HD12	0.96	1.11
1:E:376:PRO:HG2	1:G:247:PHE:CD2	1.85	1.11
1:D:369:PHE:O	1:D:381:LEU:CB	1.97	1.11
1:G:353:LEU:HA	1:G:367:ARG:HD3	1.33	1.11
1:B:376:PRO:HG2	1:E:247:PHE:CD2	1.86	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:571:LYS:HE2	1:E:575:ARG:CG	1.80	1.11
1:D:627:TYR:CD2	1:D:633:THR:HG23	1.85	1.11
1:D:534:ARG:O	1:D:537:TYR:HD2	1.32	1.11
1:D:376:PRO:HG2	1:B:247:PHE:CD2	1.86	1.10
1:B:644:MET:SD	1:E:647:LEU:HD22	1.91	1.10
1:B:337:LEU:HD21	1:B:395:VAL:CB	1.78	1.10
1:E:627:TYR:CD2	1:E:633:THR:HG23	1.85	1.10
1:D:243:PRO:HB2	1:D:244:GLY:HA3	1.30	1.10
1:G:571:LYS:HE2	1:G:575:ARG:HG3	1.27	1.10
1:D:571:LYS:HE2	1:D:575:ARG:CG	1.80	1.10
1:B:369:PHE:O	1:B:381:LEU:CB	1.97	1.10
1:B:627:TYR:CD2	1:B:633:THR:HG23	1.85	1.10
1:E:534:ARG:O	1:E:537:TYR:HD2	1.32	1.10
1:B:398:VAL:O	1:B:402:SER:OG	1.67	1.10
1:D:673:LEU:HD11	1:G:572:MET:CB	1.81	1.10
1:G:349:LEU:HD22	1:G:414:LEU:HD23	1.24	1.10
1:G:449:THR:HA	1:G:545:LEU:HD11	1.10	1.10
1:D:461:PRO:CA	1:D:530:TYR:HE1	1.64	1.10
1:B:534:ARG:O	1:B:537:TYR:HD2	1.32	1.10
1:D:639:LYS:HG2	1:B:647:LEU:HD23	1.31	1.10
1:B:426:TRP:HA	1:B:430:VAL:HG23	1.25	1.09
1:D:199:TYR:CE1	1:G:372:TRP:CZ3	1.99	1.09
1:E:353:LEU:O	1:E:367:ARG:HB3	1.52	1.09
1:E:353:LEU:HA	1:E:367:ARG:HD3	1.33	1.09
1:B:678:LEU:HA	1:B:681:LEU:HD12	1.11	1.09
1:G:461:PRO:CA	1:G:530:TYR:HE1	1.64	1.09
1:G:353:LEU:O	1:G:367:ARG:HB3	1.52	1.09
1:B:639:LYS:HG2	1:E:647:LEU:HD23	1.31	1.09
1:B:693:SER:HA	1:B:696:ILE:HG13	1.30	1.09
1:D:571:LYS:HE2	1:D:575:ARG:HG3	1.27	1.09
1:D:353:LEU:HA	1:D:367:ARG:HD3	1.33	1.09
1:B:443:LEU:HA	1:B:446:ILE:HD12	1.16	1.08
1:G:693:SER:HA	1:G:696:ILE:HG13	1.30	1.08
1:G:481:SER:O	1:G:523:MET:HE1	1.53	1.08
1:B:631:TYR:CB	2:F:24:UNK:CB	2.31	1.08
1:B:655:PHE:HA	2:C:10:UNK:O	1.52	1.08
1:G:655:PHE:HA	2:H:10:UNK:O	1.52	1.08
1:D:372:TRP:CZ3	1:B:199:TYR:CD1	2.27	1.08
1:D:245:PHE:CB	1:G:758:UNK:CB	2.29	1.08
1:E:449:THR:HA	1:E:545:LEU:HD11	1.10	1.08
1:E:655:PHE:HA	2:F:10:UNK:O	1.52	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:372:TRP:CZ3	1:G:199:TYR:CD1	2.33	1.08
1:B:461:PRO:CA	1:B:530:TYR:HE1	1.64	1.08
1:D:443:LEU:HA	1:D:446:ILE:HD11	1.13	1.08
1:B:372:TRP:CZ3	1:E:199:TYR:CD1	2.29	1.08
1:D:647:LEU:HD22	1:G:644:MET:SD	1.93	1.08
1:D:655:PHE:HA	2:A:10:UNK:O	1.52	1.08
1:B:482:VAL:HA	1:B:523:MET:HE1	1.20	1.08
1:G:359:GLU:H	1:G:362:CYS:HB3	1.18	1.08
1:E:461:PRO:CA	1:E:530:TYR:HE1	1.64	1.08
1:D:644:MET:SD	1:B:647:LEU:HD22	1.92	1.08
1:G:534:ARG:O	1:G:537:TYR:HD2	1.32	1.07
1:G:243:PRO:HB2	1:G:244:GLY:HA3	1.30	1.07
1:E:243:PRO:HB2	1:E:244:GLY:HA3	1.30	1.07
1:G:568:MET:HB3	1:G:689:ILE:HD12	1.28	1.07
1:D:678:LEU:HA	1:D:681:LEU:HD12	1.11	1.07
1:E:651:GLU:O	1:E:652:ASN:ND2	1.88	1.07
1:B:651:GLU:O	1:B:652:ASN:ND2	1.88	1.07
1:E:693:SER:HA	1:E:696:ILE:HG13	1.30	1.07
1:E:693:SER:CA	1:E:696:ILE:CD1	2.21	1.06
1:G:443:LEU:HA	1:G:446:ILE:HD11	1.13	1.06
1:D:638:PHE:CZ	1:B:668:ILE:HG21	1.89	1.06
1:B:638:PHE:CZ	1:E:668:ILE:HG21	1.89	1.06
1:B:353:LEU:HA	1:B:367:ARG:HD3	1.33	1.06
1:B:693:SER:CA	1:B:696:ILE:CD1	2.21	1.06
1:E:631:TYR:CB	2:H:24:UNK:CB	2.33	1.06
1:B:353:LEU:O	1:B:367:ARG:HB3	1.52	1.06
1:D:568:MET:HB3	1:D:689:ILE:HD12	1.28	1.06
1:B:449:THR:HA	1:B:545:LEU:HD11	1.10	1.06
1:E:644:MET:SD	1:G:647:LEU:HD22	1.94	1.06
1:D:449:THR:HA	1:D:545:LEU:HD11	1.10	1.06
1:E:374:TYR:HA	1:G:210:GLU:OE2	1.54	1.06
1:B:425:LYS:O	1:B:430:VAL:HG23	1.56	1.06
1:D:425:LYS:O	1:D:430:VAL:HG23	1.56	1.06
1:G:425:LYS:O	1:G:429:PHE:HE2	1.35	1.06
1:G:678:LEU:HA	1:G:681:LEU:HD12	1.11	1.06
1:D:631:TYR:CB	2:C:24:UNK:CB	2.33	1.06
1:D:443:LEU:HA	1:D:446:ILE:HD12	1.16	1.05
1:D:664:LEU:O	1:D:668:ILE:HG23	1.56	1.05
1:D:247:PHE:CD2	1:G:376:PRO:HG2	1.90	1.05
1:D:353:LEU:O	1:D:367:ARG:HB3	1.52	1.05
1:G:425:LYS:O	1:G:430:VAL:HG23	1.56	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:425:LYS:O	1:E:430:VAL:HG23	1.56	1.05
1:B:374:TYR:HA	1:E:210:GLU:OE2	1.53	1.05
1:E:384:LEU:CD2	1:E:387:ILE:H	1.70	1.05
1:D:651:GLU:O	1:D:652:ASN:ND2	1.88	1.05
1:B:568:MET:CB	1:B:689:ILE:HD12	1.86	1.05
1:B:384:LEU:CD2	1:B:387:ILE:H	1.70	1.05
1:G:651:GLU:O	1:G:652:ASN:ND2	1.88	1.05
1:E:678:LEU:HA	1:E:681:LEU:HD12	1.11	1.04
1:E:639:LYS:HG2	1:G:647:LEU:HD23	1.32	1.04
1:D:359:GLU:H	1:D:362:CYS:HB3	1.18	1.04
1:B:382:TYR:CE2	1:B:416:GLU:CB	2.40	1.04
1:G:382:TYR:CE2	1:G:416:GLU:CB	2.40	1.04
1:D:568:MET:CB	1:D:689:ILE:HD12	1.86	1.04
1:D:647:LEU:HD23	1:G:639:LYS:HG2	1.35	1.04
1:E:568:MET:CB	1:E:689:ILE:HD12	1.86	1.04
1:G:664:LEU:O	1:G:668:ILE:HG23	1.56	1.04
1:D:374:TYR:HA	1:B:210:GLU:OE2	1.53	1.04
1:G:384:LEU:CD2	1:G:387:ILE:H	1.70	1.04
1:B:481:SER:O	1:B:523:MET:HE1	1.55	1.04
1:G:568:MET:CB	1:G:689:ILE:HD12	1.86	1.03
1:E:382:TYR:CE2	1:E:416:GLU:CB	2.40	1.03
1:G:444:TYR:OH	1:G:484:GLY:N	1.92	1.03
1:B:664:LEU:O	1:B:668:ILE:HG23	1.56	1.03
1:D:382:TYR:CE2	1:D:416:GLU:CB	2.40	1.03
1:G:426:TRP:HA	1:G:430:VAL:CG2	1.89	1.03
1:D:693:SER:CA	1:D:696:ILE:CG1	2.37	1.03
1:B:353:LEU:O	1:B:367:ARG:HG2	1.59	1.03
1:D:384:LEU:CD2	1:D:387:ILE:H	1.70	1.03
1:G:693:SER:CA	1:G:696:ILE:CG1	2.37	1.02
1:D:631:TYR:CG	2:C:24:UNK:HA	1.94	1.02
1:D:353:LEU:O	1:D:367:ARG:HG2	1.59	1.02
1:D:426:TRP:HA	1:D:430:VAL:CG2	1.89	1.02
1:D:357:ILE:N	1:D:366:SER:OG	1.92	1.02
1:E:359:GLU:H	1:E:362:CYS:HB3	1.18	1.02
1:E:426:TRP:HA	1:E:430:VAL:CG2	1.89	1.02
1:E:481:SER:O	1:E:523:MET:HE1	1.58	1.02
1:B:426:TRP:HA	1:B:430:VAL:CG2	1.89	1.02
1:E:560:GLN:O	1:E:564:ILE:HD12	1.60	1.02
1:D:668:ILE:HG21	1:G:638:PHE:CZ	1.95	1.02
1:B:357:ILE:N	1:B:366:SER:OG	1.92	1.02
1:E:664:LEU:O	1:E:668:ILE:HG23	1.56	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:210:GLU:OE2	1:G:374:TYR:HA	1.60	1.02
1:B:631:TYR:CG	2:F:24:UNK:HA	1.92	1.02
1:G:571:LYS:CE	1:G:575:ARG:HG3	1.90	1.02
1:D:239:THR:OG1	1:D:243:PRO:HB3	1.60	1.01
1:D:481:SER:C	1:D:523:MET:CE	2.29	1.01
1:E:357:ILE:N	1:E:366:SER:OG	1.92	1.01
1:E:353:LEU:O	1:E:367:ARG:HG2	1.59	1.01
1:B:560:GLN:O	1:B:564:ILE:HD12	1.60	1.01
1:E:481:SER:C	1:E:523:MET:CE	2.29	1.01
1:G:631:TYR:CB	2:A:24:UNK:CB	2.37	1.01
1:B:444:TYR:OH	1:B:484:GLY:N	1.92	1.01
1:G:353:LEU:O	1:G:367:ARG:CG	2.09	1.01
1:G:353:LEU:O	1:G:367:ARG:HG2	1.59	1.01
1:B:627:TYR:HD2	1:B:633:THR:HG23	1.24	1.01
1:G:481:SER:C	1:G:523:MET:CE	2.29	1.01
1:D:444:TYR:CE2	1:D:484:GLY:HA3	1.95	1.01
1:B:481:SER:C	1:B:523:MET:CE	2.29	1.01
1:D:571:LYS:CE	1:D:575:ARG:HG3	1.90	1.01
1:E:353:LEU:O	1:E:367:ARG:CG	2.09	1.01
1:G:353:LEU:O	1:G:367:ARG:CB	2.09	1.01
1:D:560:GLN:O	1:D:564:ILE:HD12	1.60	1.01
1:E:425:LYS:O	1:E:429:PHE:HE2	1.35	1.01
1:B:571:LYS:CE	1:B:575:ARG:HG3	1.90	1.01
1:G:357:ILE:N	1:G:366:SER:OG	1.92	1.01
1:B:519:GLN:HB2	1:B:547:MET:HG2	1.40	1.01
1:E:678:LEU:HA	1:E:681:LEU:CD1	1.91	1.00
1:B:444:TYR:CE2	1:B:484:GLY:HA3	1.95	1.00
1:D:353:LEU:O	1:D:367:ARG:CG	2.09	1.00
1:B:239:THR:OG1	1:B:243:PRO:HB3	1.60	1.00
1:B:693:SER:CA	1:B:696:ILE:CG1	2.37	1.00
1:G:444:TYR:CE2	1:G:484:GLY:HA3	1.95	1.00
1:D:444:TYR:OH	1:D:484:GLY:N	1.92	1.00
1:B:353:LEU:O	1:B:367:ARG:CG	2.09	1.00
1:D:353:LEU:O	1:D:367:ARG:CB	2.09	1.00
1:E:693:SER:CA	1:E:696:ILE:CG1	2.37	1.00
1:G:560:GLN:O	1:G:564:ILE:HD12	1.60	1.00
1:E:444:TYR:CE2	1:E:484:GLY:HA3	1.95	1.00
1:E:444:TYR:OH	1:E:484:GLY:N	1.92	1.00
1:B:444:TYR:OH	1:B:484:GLY:HA3	1.44	1.00
1:E:571:LYS:CE	1:E:575:ARG:HG3	1.90	1.00
1:B:359:GLU:H	1:B:362:CYS:HB3	1.18	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:359:GLU:CD	1:E:360:PRO:CD	2.30	1.00
1:D:571:LYS:CE	1:D:575:ARG:NH1	2.25	1.00
1:B:591:PHE:CD2	1:B:666:TYR:HB2	1.97	1.00
1:E:638:PHE:CZ	1:G:668:ILE:HG21	1.94	1.00
1:G:359:GLU:CD	1:G:360:PRO:CD	2.30	1.00
1:E:353:LEU:O	1:E:367:ARG:CB	2.09	1.00
1:E:426:TRP:CG	1:E:430:VAL:HB	1.97	0.99
1:D:591:PHE:CD2	1:D:666:TYR:HB2	1.97	0.99
1:B:425:LYS:O	1:B:429:PHE:HE2	1.35	0.99
1:D:426:TRP:CG	1:D:430:VAL:HB	1.97	0.99
1:D:678:LEU:HA	1:D:681:LEU:CD1	1.91	0.99
1:G:426:TRP:CG	1:G:430:VAL:HB	1.97	0.99
1:E:571:LYS:CE	1:E:575:ARG:NH1	2.25	0.99
1:E:591:PHE:CD2	1:E:666:TYR:HB2	1.97	0.99
1:E:542:VAL:HG21	1:G:598:LEU:CG	1.92	0.99
1:G:239:THR:OG1	1:G:243:PRO:HB3	1.60	0.99
1:D:519:GLN:HB2	1:D:547:MET:HG2	1.40	0.99
1:G:678:LEU:HA	1:G:681:LEU:CD1	1.91	0.99
1:G:426:TRP:CD1	1:G:430:VAL:CB	1.98	0.99
1:E:631:TYR:CG	2:H:24:UNK:HA	1.95	0.99
1:E:519:GLN:HB2	1:E:547:MET:HG2	1.40	0.99
1:B:426:TRP:CG	1:B:430:VAL:HB	1.97	0.99
1:B:678:LEU:HA	1:B:681:LEU:CD1	1.91	0.99
1:E:239:THR:OG1	1:E:243:PRO:HB3	1.60	0.99
1:B:376:PRO:HG2	1:E:247:PHE:HD2	1.25	0.99
2:F:15:UNK:CB	2:F:28:UNK:SG	2.51	0.99
1:B:353:LEU:O	1:B:367:ARG:CB	2.09	0.99
1:G:631:TYR:CG	2:A:24:UNK:HA	1.98	0.99
1:E:461:PRO:HA	1:E:530:TYR:HE1	0.83	0.99
1:B:571:LYS:CE	1:B:575:ARG:NH1	2.25	0.98
1:G:571:LYS:CE	1:G:575:ARG:NH1	2.25	0.98
1:B:629:SER:O	1:B:633:THR:OG1	1.81	0.98
1:B:359:GLU:CD	1:B:360:PRO:CD	2.30	0.98
1:E:629:SER:O	1:E:633:THR:OG1	1.81	0.98
1:G:443:LEU:C	1:G:446:ILE:HD12	1.83	0.98
1:G:591:PHE:CD2	1:G:666:TYR:HB2	1.97	0.98
1:G:481:SER:O	1:G:523:MET:CE	2.12	0.98
2:C:15:UNK:CB	2:C:28:UNK:SG	2.51	0.98
1:E:376:PRO:HG2	1:G:247:PHE:HD2	1.22	0.98
1:E:521:LEU:HD13	1:E:522:PHE:H	0.87	0.98
1:D:359:GLU:CD	1:D:360:PRO:CD	2.30	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:461:PRO:HA	1:D:530:TYR:HE1	0.83	0.98
1:G:367:ARG:HH12	1:G:385:SER:N	1.61	0.98
1:E:198:TYR:CE1	1:E:242:ARG:HD2	1.99	0.98
2:H:15:UNK:CB	2:H:28:UNK:SG	2.51	0.98
1:G:519:GLN:HB2	1:G:547:MET:HG2	1.40	0.98
1:B:571:LYS:CE	1:B:575:ARG:HH11	1.77	0.98
1:E:367:ARG:HH12	1:E:385:SER:N	1.61	0.98
1:D:443:LEU:C	1:D:446:ILE:HD12	1.83	0.97
1:B:481:SER:O	1:B:523:MET:CE	2.12	0.97
1:D:367:ARG:NH1	1:D:385:SER:H	1.62	0.97
1:G:481:SER:C	1:G:523:MET:HE1	1.85	0.97
1:D:482:VAL:HA	1:D:523:MET:HE1	0.98	0.97
1:G:482:VAL:CA	1:G:523:MET:CE	2.39	0.97
2:A:15:UNK:CB	2:A:28:UNK:SG	2.51	0.97
1:B:655:PHE:CD1	2:C:11:UNK:CA	2.48	0.97
1:B:367:ARG:NH1	1:B:385:SER:H	1.62	0.97
1:G:367:ARG:NH1	1:G:385:SER:H	1.62	0.97
1:E:449:THR:CA	1:E:545:LEU:HD11	1.95	0.97
1:E:571:LYS:CE	1:E:575:ARG:HH11	1.77	0.97
1:G:461:PRO:HA	1:G:530:TYR:HE1	0.83	0.97
1:B:367:ARG:HH12	1:B:385:SER:N	1.61	0.97
1:G:198:TYR:CE1	1:G:242:ARG:HD2	1.99	0.97
1:D:627:TYR:HD2	1:D:633:THR:HG23	1.24	0.97
1:B:198:TYR:CE1	1:B:242:ARG:HD2	1.99	0.97
1:G:449:THR:CA	1:G:545:LEU:HD11	1.95	0.97
1:D:481:SER:O	1:D:523:MET:CE	2.12	0.97
1:B:685:THR:O	1:B:689:ILE:CG2	2.13	0.97
1:B:693:SER:HB2	1:B:696:ILE:HD11	1.45	0.97
1:G:655:PHE:CD1	2:H:11:UNK:CA	2.48	0.97
1:D:367:ARG:HH12	1:D:385:SER:N	1.61	0.97
1:B:443:LEU:HA	1:B:446:ILE:HD13	1.47	0.97
1:E:443:LEU:C	1:E:446:ILE:HD12	1.83	0.97
1:B:449:THR:CA	1:B:545:LEU:HD11	1.95	0.97
1:D:693:SER:HB2	1:D:696:ILE:HD11	1.45	0.97
1:E:481:SER:O	1:E:523:MET:CE	2.12	0.97
1:D:571:LYS:CE	1:D:575:ARG:HH11	1.77	0.97
1:B:461:PRO:HA	1:B:530:TYR:HE1	0.83	0.97
1:E:461:PRO:CA	1:E:530:TYR:CE1	2.45	0.97
1:D:629:SER:O	1:D:633:THR:OG1	1.81	0.97
1:G:529:LEU:HA	1:G:532:SER:OG	1.65	0.97
1:G:521:LEU:HD13	1:G:522:PHE:H	0.87	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:693:SER:HA	1:E:696:ILE:HD11	1.17	0.96
1:E:693:SER:HB2	1:E:696:ILE:HD11	1.44	0.96
1:E:511:TYR:CE2	1:E:515:LEU:CD1	2.48	0.96
1:D:529:LEU:HA	1:D:532:SER:OG	1.65	0.96
1:B:443:LEU:C	1:B:446:ILE:HD12	1.83	0.96
1:D:426:TRP:CD1	1:D:430:VAL:CB	1.98	0.96
1:B:426:TRP:CD1	1:B:430:VAL:CB	1.98	0.96
1:D:655:PHE:CD1	2:A:11:UNK:CA	2.48	0.96
1:G:449:THR:HA	1:G:545:LEU:CD1	1.96	0.96
1:E:655:PHE:CD1	2:F:11:UNK:CA	2.48	0.96
1:D:198:TYR:CE1	1:D:242:ARG:HD2	1.99	0.96
1:G:629:SER:O	1:G:633:THR:OG1	1.81	0.96
1:E:639:LYS:HD2	1:G:647:LEU:HB3	1.45	0.96
1:B:571:LYS:HE3	1:B:575:ARG:HH11	1.19	0.96
1:B:511:TYR:CE2	1:B:515:LEU:CD1	2.48	0.96
1:D:511:TYR:CE2	1:D:515:LEU:CD1	2.48	0.96
1:G:571:LYS:CE	1:G:575:ARG:HH11	1.77	0.96
1:G:511:TYR:CE2	1:G:515:LEU:CD1	2.48	0.96
1:D:376:PRO:HG2	1:B:247:PHE:HD2	1.26	0.96
1:E:627:TYR:HD2	1:E:633:THR:HG23	1.24	0.96
1:D:449:THR:HA	1:D:545:LEU:CD1	1.96	0.96
1:E:367:ARG:NH1	1:E:385:SER:H	1.62	0.95
1:B:529:LEU:HA	1:B:532:SER:OG	1.65	0.95
1:G:693:SER:HB2	1:G:696:ILE:HD11	1.45	0.95
1:G:584:TYR:OH	1:G:641:THR:CB	2.15	0.95
1:E:449:THR:HA	1:E:545:LEU:CD1	1.96	0.95
1:E:498:GLN:HA	1:E:498:GLN:HE21	1.30	0.95
1:D:425:LYS:O	1:D:429:PHE:HE2	1.35	0.95
1:D:685:THR:O	1:D:689:ILE:CG2	2.13	0.95
1:E:571:LYS:HE3	1:E:575:ARG:HH11	1.20	0.95
1:D:449:THR:CA	1:D:545:LEU:HD11	1.95	0.95
1:D:559:PHE:O	1:D:563:GLY:N	2.00	0.95
1:D:638:PHE:CZ	1:B:668:ILE:CG2	2.50	0.95
1:B:498:GLN:HE21	1:B:498:GLN:HA	1.31	0.95
1:B:559:PHE:O	1:B:563:GLY:N	2.00	0.95
1:B:584:TYR:OH	1:B:641:THR:CB	2.15	0.95
1:E:443:LEU:HA	1:E:446:ILE:HD13	1.47	0.95
1:B:638:PHE:CZ	1:E:668:ILE:CG2	2.49	0.95
1:B:449:THR:HA	1:B:545:LEU:CD1	1.96	0.95
1:E:482:VAL:CA	1:E:523:MET:CE	2.39	0.94
1:D:656:LYS:C	1:D:660:ILE:HD13	1.88	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:635:LEU:CD2	1:B:664:LEU:HD21	1.97	0.94
1:G:443:LEU:HA	1:G:446:ILE:HD13	1.47	0.94
1:D:655:PHE:O	1:D:659:PHE:N	2.00	0.94
2:C:2:UNK:HA	2:C:14:UNK:O	1.67	0.94
1:D:598:LEU:CG	1:G:542:VAL:HG21	1.97	0.94
1:B:568:MET:CB	1:B:689:ILE:CD1	2.43	0.94
1:E:529:LEU:HA	1:E:532:SER:OG	1.65	0.94
1:G:498:GLN:HA	1:G:498:GLN:HE21	1.31	0.94
1:E:685:THR:O	1:E:689:ILE:CG2	2.13	0.94
1:D:444:TYR:OH	1:D:484:GLY:HA3	1.44	0.94
2:A:2:UNK:HA	2:A:14:UNK:O	1.67	0.94
1:D:443:LEU:HA	1:D:446:ILE:HD13	1.47	0.94
1:E:534:ARG:O	1:E:537:TYR:CD2	2.20	0.94
1:G:584:TYR:CZ	1:G:641:THR:HG21	2.02	0.94
1:D:584:TYR:OH	1:D:641:THR:CB	2.15	0.94
1:E:430:VAL:O	1:E:433:ILE:HG22	1.68	0.94
1:D:247:PHE:HD2	1:G:376:PRO:HG2	1.29	0.94
1:B:481:SER:C	1:B:523:MET:HE1	1.87	0.94
1:G:656:LYS:C	1:G:660:ILE:HD13	1.88	0.94
1:B:534:ARG:O	1:B:537:TYR:CD2	2.20	0.94
1:D:426:TRP:HD1	1:D:430:VAL:CG1	1.80	0.94
1:G:445:MET:HA	1:G:445:MET:HE3	1.48	0.94
1:E:444:TYR:OH	1:E:484:GLY:HA3	1.44	0.94
2:H:2:UNK:HA	2:H:14:UNK:O	1.67	0.94
1:E:372:TRP:CH2	1:G:199:TYR:CE1	2.45	0.94
1:D:584:TYR:CZ	1:D:641:THR:HG21	2.02	0.93
1:D:664:LEU:HD21	1:G:635:LEU:CD2	1.98	0.93
1:B:656:LYS:C	1:B:660:ILE:HD13	1.88	0.93
1:D:534:ARG:O	1:D:537:TYR:CD2	2.20	0.93
1:E:434:PHE:CZ	1:E:555:TYR:O	2.22	0.93
1:E:572:MET:HB3	1:G:673:LEU:HD11	1.48	0.93
1:G:426:TRP:HD1	1:G:430:VAL:CG1	1.80	0.93
2:F:2:UNK:HA	2:F:14:UNK:O	1.67	0.93
1:G:655:PHE:O	1:G:659:PHE:N	2.00	0.93
1:B:580:PHE:CE2	1:B:674:LEU:HD12	2.04	0.93
1:B:430:VAL:O	1:B:433:ILE:HG22	1.68	0.93
1:B:635:LEU:CD2	1:E:664:LEU:HD21	1.98	0.93
1:B:584:TYR:CZ	1:B:641:THR:HG21	2.02	0.93
1:G:444:TYR:OH	1:G:484:GLY:HA3	1.44	0.93
1:G:461:PRO:CA	1:G:530:TYR:CE1	2.45	0.93
1:G:534:ARG:O	1:G:537:TYR:CD2	2.20	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:426:TRP:HD1	1:B:430:VAL:CG1	1.80	0.93
1:G:242:ARG:H	1:G:243:PRO:HA	1.34	0.93
1:D:568:MET:CB	1:D:689:ILE:CD1	2.43	0.93
1:E:559:PHE:O	1:E:563:GLY:N	2.00	0.93
1:G:559:PHE:O	1:G:563:GLY:N	2.00	0.93
1:E:656:LYS:C	1:E:660:ILE:HD13	1.88	0.93
1:B:655:PHE:O	1:B:659:PHE:N	2.00	0.93
1:E:655:PHE:O	1:E:659:PHE:N	2.00	0.93
1:D:639:LYS:HD2	1:B:647:LEU:HB3	1.50	0.93
1:D:498:GLN:HA	1:D:498:GLN:HE21	1.31	0.93
1:B:542:VAL:HG21	1:E:598:LEU:CG	1.99	0.93
1:G:434:PHE:CZ	1:G:555:TYR:O	2.22	0.93
1:D:434:PHE:CZ	1:D:555:TYR:O	2.22	0.93
1:E:426:TRP:HD1	1:E:430:VAL:CG1	1.80	0.93
1:B:631:TYR:CD2	2:F:24:UNK:CA	1.84	0.93
1:D:580:PHE:CE1	1:D:674:LEU:HD13	2.05	0.92
1:D:571:LYS:HE3	1:D:575:ARG:HH11	1.19	0.92
1:G:389:THR:CB	1:G:394:SER:CB	2.47	0.92
1:B:434:PHE:CZ	1:B:555:TYR:O	2.22	0.92
1:E:638:PHE:CZ	1:G:668:ILE:CG2	2.51	0.92
1:D:580:PHE:CE2	1:D:674:LEU:HD12	2.04	0.92
1:B:572:MET:HB3	1:E:673:LEU:HD11	1.50	0.92
1:B:521:LEU:HD13	1:B:522:PHE:H	0.87	0.92
1:D:521:LEU:CD1	1:D:522:PHE:N	2.32	0.92
1:D:461:PRO:CA	1:D:530:TYR:CE1	2.45	0.92
1:B:639:LYS:HD2	1:E:647:LEU:HB3	1.48	0.92
1:G:521:LEU:CD1	1:G:522:PHE:N	2.32	0.92
1:B:389:THR:CB	1:B:394:SER:CB	2.47	0.92
1:G:430:VAL:O	1:G:433:ILE:HG22	1.68	0.92
1:G:685:THR:O	1:G:689:ILE:CG2	2.13	0.92
1:E:580:PHE:CE2	1:E:674:LEU:HD12	2.04	0.92
1:D:521:LEU:CD1	1:D:522:PHE:H	1.82	0.92
1:B:580:PHE:CE1	1:B:674:LEU:HD13	2.05	0.92
1:E:568:MET:CB	1:E:689:ILE:CD1	2.43	0.92
1:G:580:PHE:CE2	1:G:674:LEU:HD12	2.04	0.92
1:E:677:MET:O	1:E:681:LEU:HG	1.70	0.92
1:D:198:TYR:CD2	1:G:372:TRP:HZ3	1.87	0.92
1:D:572:MET:HB3	1:B:673:LEU:HD11	1.52	0.92
1:D:430:VAL:O	1:D:433:ILE:HG22	1.68	0.91
1:G:627:TYR:HD2	1:G:633:THR:HG23	1.24	0.91
1:D:445:MET:HA	1:D:445:MET:HE3	1.52	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:444:TYR:OH	1:D:481:SER:O	1.88	0.91
1:B:444:TYR:OH	1:B:484:GLY:C	2.09	0.91
1:D:389:THR:CB	1:D:394:SER:CB	2.47	0.91
1:E:389:THR:CB	1:E:394:SER:CB	2.47	0.91
1:E:521:LEU:CD1	1:E:522:PHE:H	1.82	0.91
1:B:677:MET:O	1:B:681:LEU:HG	1.70	0.91
1:E:425:LYS:O	1:E:430:VAL:CG2	2.18	0.91
1:E:696:ILE:HD12	1:E:697:TRP:N	1.85	0.91
1:G:696:ILE:HD12	1:G:697:TRP:N	1.85	0.91
1:E:580:PHE:CE1	1:E:674:LEU:HD13	2.05	0.91
1:D:542:VAL:HG21	1:B:598:LEU:CG	2.00	0.91
1:E:444:TYR:OH	1:E:485:GLY:N	2.04	0.91
1:B:353:LEU:HD22	1:B:386:CYS:SG	2.11	0.91
1:B:425:LYS:O	1:B:430:VAL:CG2	2.18	0.91
1:G:444:TYR:OH	1:G:484:GLY:C	2.09	0.91
1:E:242:ARG:H	1:E:243:PRO:HA	1.34	0.91
2:A:15:UNK:SG	2:A:28:UNK:CB	2.59	0.91
1:G:631:TYR:CD2	2:A:24:UNK:CA	1.88	0.91
2:C:15:UNK:SG	2:C:28:UNK:CB	2.59	0.91
1:B:570:GLU:O	1:B:574:LEU:HD22	1.71	0.91
1:B:444:TYR:OH	1:B:485:GLY:N	2.04	0.91
1:D:353:LEU:HD22	1:D:386:CYS:SG	2.11	0.91
1:B:443:LEU:CA	1:B:446:ILE:HD11	1.90	0.91
1:D:638:PHE:CE1	1:B:668:ILE:HG21	2.06	0.91
1:D:677:MET:O	1:D:681:LEU:HG	1.70	0.91
1:B:444:TYR:OH	1:B:481:SER:O	1.88	0.91
1:E:349:LEU:HD22	1:E:414:LEU:CD2	2.01	0.91
1:E:635:LEU:CD2	1:G:664:LEU:HD21	2.00	0.91
1:G:444:TYR:OH	1:G:485:GLY:N	2.04	0.91
1:D:444:TYR:OH	1:D:485:GLY:N	2.04	0.91
1:D:482:VAL:CA	1:D:523:MET:CE	2.39	0.91
1:G:571:LYS:HE3	1:G:575:ARG:HH11	1.20	0.91
1:E:353:LEU:HD22	1:E:386:CYS:SG	2.11	0.91
1:D:638:PHE:CE1	1:B:668:ILE:CG2	2.53	0.90
1:E:444:TYR:OH	1:E:484:GLY:C	2.09	0.90
1:B:482:VAL:CA	1:B:523:MET:CE	2.39	0.90
1:G:425:LYS:O	1:G:430:VAL:CG2	2.18	0.90
1:E:570:GLU:O	1:E:574:LEU:HD22	1.71	0.90
1:D:631:TYR:CD2	2:C:24:UNK:CA	1.86	0.90
1:G:349:LEU:HD22	1:G:414:LEU:CD2	2.01	0.90
1:D:696:ILE:HD12	1:D:697:TRP:N	1.85	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:444:TYR:OH	1:E:481:SER:O	1.88	0.90
1:E:631:TYR:CE2	2:H:24:UNK:HA	1.99	0.90
1:E:521:LEU:CD1	1:E:522:PHE:N	2.32	0.90
1:B:542:VAL:HG11	1:E:598:LEU:HG	1.52	0.90
1:G:677:MET:O	1:G:681:LEU:HG	1.70	0.90
1:E:542:VAL:HG11	1:G:598:LEU:HG	1.51	0.90
1:D:425:LYS:O	1:D:430:VAL:CG2	2.18	0.90
1:D:560:GLN:HA	1:D:697:TRP:CD1	2.07	0.90
1:B:638:PHE:CE1	1:E:668:ILE:CG2	2.54	0.90
1:D:521:LEU:HD13	1:D:522:PHE:H	0.87	0.90
1:B:696:ILE:HD12	1:B:697:TRP:N	1.85	0.90
1:G:568:MET:CB	1:G:689:ILE:CD1	2.43	0.90
1:D:444:TYR:OH	1:D:484:GLY:C	2.09	0.90
1:G:580:PHE:CE1	1:G:674:LEU:HD13	2.04	0.90
1:B:568:MET:HE2	1:B:689:ILE:HD13	1.53	0.90
1:B:349:LEU:HD22	1:B:414:LEU:CD2	2.01	0.90
1:E:481:SER:C	1:E:523:MET:HE3	1.90	0.90
1:D:542:VAL:HG11	1:B:598:LEU:HG	1.54	0.90
1:B:425:LYS:O	1:B:429:PHE:CD2	2.25	0.90
1:E:560:GLN:HA	1:E:697:TRP:CD1	2.07	0.90
1:G:560:GLN:HA	1:G:697:TRP:CD1	2.07	0.90
1:D:242:ARG:H	1:D:243:PRO:HA	1.34	0.90
2:F:15:UNK:SG	2:F:28:UNK:CB	2.59	0.90
1:E:443:LEU:CA	1:E:446:ILE:HD11	1.90	0.90
1:E:564:ILE:HG12	1:E:693:SER:HB2	0.90	0.90
1:G:353:LEU:HD22	1:G:386:CYS:SG	2.11	0.90
1:B:564:ILE:HG12	1:B:693:SER:HB2	0.90	0.89
1:E:425:LYS:O	1:E:429:PHE:CD2	2.25	0.89
1:G:384:LEU:HD21	1:G:387:ILE:CB	2.03	0.89
1:D:499:ARG:HH11	1:D:499:ARG:HG2	1.38	0.89
2:H:15:UNK:SG	2:H:28:UNK:CB	2.59	0.89
1:D:349:LEU:HD22	1:D:414:LEU:CD2	2.01	0.89
1:D:384:LEU:HD21	1:D:387:ILE:CB	2.03	0.89
1:B:445:MET:HA	1:B:445:MET:HE3	1.53	0.89
1:D:425:LYS:O	1:D:429:PHE:CD2	2.25	0.89
1:G:425:LYS:O	1:G:429:PHE:CD2	2.25	0.89
1:G:444:TYR:OH	1:G:481:SER:O	1.88	0.89
1:E:384:LEU:HD21	1:E:387:ILE:CB	2.03	0.89
1:D:627:TYR:HD2	1:D:633:THR:CG2	1.86	0.89
1:D:471:ASP:O	1:D:475:VAL:HG23	1.73	0.89
1:G:564:ILE:HG12	1:G:693:SER:HB2	0.90	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:656:LYS:C	1:G:660:ILE:CD1	2.41	0.89
1:E:580:PHE:CZ	1:E:674:LEU:HD12	2.07	0.89
1:B:384:LEU:HD21	1:B:387:ILE:CB	2.03	0.89
1:D:647:LEU:HB3	1:G:639:LYS:HD2	1.53	0.89
1:B:560:GLN:HA	1:B:697:TRP:CD1	2.07	0.89
1:D:668:ILE:CG2	1:G:638:PHE:CZ	2.55	0.89
1:B:580:PHE:CZ	1:B:674:LEU:HD12	2.07	0.89
1:D:359:GLU:H	1:D:362:CYS:CB	1.85	0.89
1:D:384:LEU:HD21	1:D:387:ILE:H	1.38	0.89
1:B:627:TYR:HD2	1:B:633:THR:CG2	1.86	0.89
1:B:471:ASP:O	1:B:475:VAL:HG23	1.73	0.89
1:B:499:ARG:HG2	1:B:499:ARG:HH11	1.38	0.89
1:B:696:ILE:HD12	1:B:697:TRP:H	1.38	0.89
1:D:564:ILE:HG12	1:D:693:SER:HB2	0.90	0.89
1:D:668:ILE:CG2	1:G:638:PHE:CE1	2.56	0.89
1:D:570:GLU:O	1:D:574:LEU:HD22	1.71	0.89
1:B:359:GLU:O	1:B:362:CYS:HB3	1.73	0.89
1:G:529:LEU:O	1:G:533:GLN:N	2.06	0.89
1:D:596:VAL:HG11	1:G:453:TYR:CE1	2.08	0.89
1:D:359:GLU:O	1:D:362:CYS:HB3	1.73	0.88
1:G:627:TYR:HD2	1:G:633:THR:CG2	1.86	0.88
1:B:521:LEU:CD1	1:B:522:PHE:N	2.32	0.88
1:G:631:TYR:CE2	2:A:24:UNK:HA	2.01	0.88
1:B:678:LEU:CA	1:B:681:LEU:HD12	2.03	0.88
1:D:642:ILE:HD11	1:B:668:ILE:HG22	1.53	0.88
1:B:638:PHE:CE1	1:E:668:ILE:HG21	2.08	0.88
1:B:642:ILE:HD11	1:E:668:ILE:HG22	1.55	0.88
1:E:696:ILE:HD12	1:E:697:TRP:H	1.38	0.88
1:B:359:GLU:H	1:B:362:CYS:CB	1.85	0.88
1:G:350:ALA:HB2	1:G:414:LEU:HD11	1.56	0.88
1:E:359:GLU:H	1:E:362:CYS:CB	1.85	0.88
1:D:656:LYS:C	1:D:660:ILE:CD1	2.41	0.88
1:E:350:ALA:HB2	1:E:414:LEU:HD11	1.56	0.88
1:E:481:SER:C	1:E:523:MET:HE1	1.90	0.88
1:E:542:VAL:HG21	1:G:598:LEU:HG	1.53	0.88
1:G:359:GLU:H	1:G:362:CYS:CB	1.85	0.88
1:B:461:PRO:CA	1:B:530:TYR:CE1	2.45	0.88
1:D:668:ILE:HG22	1:G:642:ILE:HD11	1.55	0.88
1:E:511:TYR:O	1:E:514:ILE:CG2	2.22	0.88
1:E:375:GLY:N	1:G:210:GLU:CG	2.16	0.88
1:G:356:GLU:HA	1:G:366:SER:OG	1.74	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:350:ALA:HB2	1:B:414:LEU:HD11	1.56	0.88
1:B:242:ARG:H	1:B:243:PRO:HA	1.34	0.88
1:B:511:TYR:O	1:B:514:ILE:CG2	2.22	0.88
1:G:570:GLU:O	1:G:574:LEU:HD22	1.71	0.88
1:G:384:LEU:HD21	1:G:387:ILE:H	1.38	0.88
1:E:635:LEU:HD21	1:G:664:LEU:HD21	1.56	0.88
1:D:350:ALA:HB2	1:D:414:LEU:HD11	1.56	0.88
1:E:627:TYR:HD2	1:E:633:THR:CG2	1.86	0.88
1:B:529:LEU:O	1:B:533:GLN:N	2.06	0.88
1:E:638:PHE:CE1	1:G:668:ILE:CG2	2.58	0.87
1:G:580:PHE:CZ	1:G:674:LEU:HD12	2.07	0.87
1:E:356:GLU:HA	1:E:366:SER:OG	1.74	0.87
1:D:529:LEU:O	1:D:533:GLN:N	2.06	0.87
1:E:471:ASP:O	1:E:475:VAL:HG23	1.73	0.87
1:B:511:TYR:CE1	1:B:570:GLU:CG	2.46	0.87
1:G:359:GLU:O	1:G:362:CYS:HB3	1.73	0.87
1:G:471:ASP:O	1:G:475:VAL:HG23	1.73	0.87
1:G:511:TYR:O	1:G:514:ILE:CG2	2.22	0.87
1:E:359:GLU:O	1:E:362:CYS:HB3	1.73	0.87
1:B:481:SER:C	1:B:523:MET:HE3	1.93	0.87
1:E:656:LYS:C	1:E:660:ILE:CD1	2.41	0.87
1:G:655:PHE:CE1	2:H:11:UNK:CA	2.58	0.87
1:G:710:LYS:CE	1:G:710:LYS:HA	2.05	0.87
1:D:710:LYS:HA	1:D:710:LYS:CE	2.05	0.87
1:D:438:PHE:O	1:D:442:CYS:SG	2.33	0.87
1:G:696:ILE:HD12	1:G:697:TRP:H	1.38	0.87
1:G:481:SER:C	1:G:523:MET:HE3	1.95	0.87
1:D:657:ALA:C	1:D:660:ILE:HD11	1.94	0.87
1:D:511:TYR:O	1:D:514:ILE:CG2	2.22	0.87
1:D:580:PHE:CZ	1:D:674:LEU:HD12	2.07	0.87
1:B:384:LEU:HD21	1:B:387:ILE:H	1.38	0.87
1:G:499:ARG:HH11	1:G:499:ARG:HG2	1.38	0.87
1:D:568:MET:HE2	1:D:689:ILE:HD13	1.55	0.87
1:D:655:PHE:CE1	2:A:11:UNK:CA	2.58	0.87
1:E:542:VAL:HG21	1:G:598:LEU:HD23	1.56	0.87
1:E:529:LEU:O	1:E:533:GLN:N	2.06	0.87
1:E:657:ALA:C	1:E:660:ILE:HD11	1.94	0.86
1:G:521:LEU:CD1	1:G:522:PHE:H	1.82	0.86
1:G:589:PHE:O	1:G:593:THR:HG23	1.75	0.86
1:D:668:ILE:HG21	1:G:638:PHE:CE1	2.09	0.86
1:G:438:PHE:O	1:G:442:CYS:SG	2.33	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:356:GLU:HA	1:B:366:SER:OG	1.74	0.86
1:D:356:GLU:HA	1:D:366:SER:OG	1.74	0.86
1:D:136:LEU:H	1:D:136:LEU:HD23	1.41	0.86
1:B:710:LYS:HA	1:B:710:LYS:CE	2.05	0.86
1:E:426:TRP:CD1	1:E:430:VAL:CB	1.98	0.86
1:E:438:PHE:O	1:E:442:CYS:SG	2.33	0.86
1:D:664:LEU:HD21	1:G:635:LEU:HD21	1.56	0.86
1:D:482:VAL:N	1:D:523:MET:CE	2.38	0.86
1:B:482:VAL:HA	1:B:523:MET:HE2	1.56	0.86
1:B:482:VAL:N	1:B:523:MET:CE	2.38	0.86
1:E:655:PHE:CE1	2:F:11:UNK:CA	2.58	0.86
1:B:657:ALA:C	1:B:660:ILE:HD11	1.94	0.86
1:B:521:LEU:HD11	1:B:522:PHE:HD2	1.40	0.86
1:G:521:LEU:HD11	1:G:522:PHE:HD2	1.40	0.86
1:B:591:PHE:CE2	1:B:666:TYR:CB	2.59	0.86
1:D:589:PHE:O	1:D:593:THR:HG23	1.75	0.86
1:E:482:VAL:N	1:E:523:MET:CE	2.39	0.86
1:G:482:VAL:N	1:G:523:MET:CE	2.38	0.86
1:G:482:VAL:HA	1:G:523:MET:HE2	1.53	0.86
1:G:136:LEU:HD23	1:G:136:LEU:H	1.41	0.86
1:B:438:PHE:O	1:B:442:CYS:SG	2.33	0.86
1:B:635:LEU:HD21	1:E:664:LEU:HD21	1.58	0.86
1:D:598:LEU:HG	1:G:542:VAL:HG21	1.55	0.86
1:E:499:ARG:HH11	1:E:499:ARG:HG2	1.38	0.86
1:D:696:ILE:HD12	1:D:697:TRP:H	1.38	0.86
1:G:239:THR:CB	1:G:243:PRO:HB3	2.06	0.86
2:A:9:UNK:SG	2:A:21:UNK:SG	2.74	0.86
1:B:655:PHE:CE1	2:C:11:UNK:CA	2.58	0.86
1:D:374:TYR:CA	1:B:210:GLU:OE2	2.23	0.86
1:E:591:PHE:CE2	1:E:666:TYR:CB	2.59	0.86
1:D:375:GLY:CA	1:B:210:GLU:HA	2.06	0.86
1:B:589:PHE:O	1:B:593:THR:HG23	1.75	0.86
1:B:375:GLY:N	1:E:210:GLU:CG	2.14	0.86
1:G:591:PHE:CE2	1:G:666:TYR:CB	2.59	0.86
1:B:600:GLU:OE2	1:B:601:ASP:N	2.09	0.86
1:E:678:LEU:CA	1:E:681:LEU:HD12	2.03	0.85
1:G:568:MET:HE2	1:G:689:ILE:HD13	1.55	0.85
1:D:478:GLU:O	1:D:482:VAL:HG23	1.76	0.85
1:E:521:LEU:HD11	1:E:522:PHE:HD2	1.40	0.85
1:E:542:VAL:HG21	1:G:598:LEU:HD21	1.58	0.85
1:G:455:ARG:HH21	1:G:538:VAL:HG21	1.40	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:426:TRP:CD1	1:B:430:VAL:CG1	2.58	0.85
1:E:478:GLU:O	1:E:482:VAL:HG23	1.76	0.85
1:B:478:GLU:O	1:B:482:VAL:HG23	1.76	0.85
2:C:9:UNK:SG	2:C:21:UNK:SG	2.74	0.85
1:G:657:ALA:C	1:G:660:ILE:HD11	1.94	0.85
1:D:635:LEU:HD21	1:B:664:LEU:HD21	1.57	0.85
1:E:572:MET:CE	1:E:685:THR:OG1	2.24	0.85
1:E:710:LYS:CE	1:E:710:LYS:HA	2.05	0.85
1:D:693:SER:CA	1:D:696:ILE:HG13	2.03	0.85
1:G:572:MET:CE	1:G:685:THR:OG1	2.24	0.85
1:G:600:GLU:OE2	1:G:601:ASP:N	2.09	0.85
1:G:693:SER:CA	1:G:696:ILE:HG13	2.03	0.85
1:B:656:LYS:C	1:B:660:ILE:CD1	2.41	0.85
1:D:598:LEU:HG	1:G:542:VAL:HG11	1.59	0.85
1:D:546:ALA:O	1:D:550:THR:HG23	1.77	0.85
1:D:210:GLU:HG2	1:G:375:GLY:H	0.69	0.85
1:G:478:GLU:O	1:G:482:VAL:HG23	1.76	0.85
1:G:239:THR:OG1	1:G:241:GLY:HA2	1.77	0.85
1:E:589:PHE:O	1:E:593:THR:HG23	1.75	0.85
1:E:426:TRP:CD1	1:E:430:VAL:CG1	2.58	0.85
1:G:443:LEU:O	1:G:446:ILE:HD12	1.77	0.85
1:G:591:PHE:HE2	1:G:666:TYR:HB2	1.41	0.85
1:E:546:ALA:O	1:E:550:THR:HG23	1.77	0.85
1:E:453:TYR:CE1	1:G:596:VAL:HG11	2.11	0.85
1:G:443:LEU:O	1:G:447:ILE:HD13	1.77	0.85
1:E:376:PRO:CG	1:G:247:PHE:CD2	2.60	0.85
1:G:546:ALA:O	1:G:550:THR:HG23	1.77	0.85
1:E:121:VAL:HG22	1:E:172:THR:HG21	1.57	0.85
1:B:443:LEU:O	1:B:447:ILE:HD13	1.77	0.85
1:D:521:LEU:HD11	1:D:522:PHE:HD2	1.40	0.85
1:G:121:VAL:HG22	1:G:172:THR:HG21	1.57	0.85
1:D:572:MET:CE	1:D:685:THR:OG1	2.24	0.84
1:E:443:LEU:O	1:E:446:ILE:HD12	1.77	0.84
1:E:455:ARG:HH21	1:E:538:VAL:HG21	1.41	0.84
1:B:136:LEU:H	1:B:136:LEU:HD23	1.41	0.84
1:D:443:LEU:O	1:D:446:ILE:HD12	1.77	0.84
1:D:443:LEU:CA	1:D:446:ILE:HD11	1.90	0.84
2:F:9:UNK:SG	2:F:21:UNK:SG	2.74	0.84
2:H:9:UNK:SG	2:H:21:UNK:SG	2.74	0.84
1:D:121:VAL:HG22	1:D:172:THR:HG21	1.57	0.84
1:B:443:LEU:O	1:B:446:ILE:HD12	1.76	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:542:VAL:HG21	1:E:598:LEU:HG	1.59	0.84
1:E:600:GLU:OE2	1:E:601:ASP:N	2.09	0.84
1:E:239:THR:OG1	1:E:241:GLY:HA2	1.77	0.84
1:G:426:TRP:CD1	1:G:430:VAL:CG1	2.58	0.84
1:E:511:TYR:CE1	1:E:570:GLU:CG	2.46	0.84
1:D:660:ILE:HD13	1:D:660:ILE:H	1.41	0.84
1:B:374:TYR:CA	1:E:210:GLU:OE2	2.24	0.84
1:D:600:GLU:OE2	1:D:601:ASP:N	2.09	0.84
1:D:455:ARG:HH21	1:D:538:VAL:HG21	1.40	0.84
1:E:127:GLN:O	1:E:130:GLU:HG3	1.78	0.84
1:D:239:THR:CB	1:D:243:PRO:HB3	2.06	0.84
1:E:511:TYR:O	1:E:514:ILE:HG22	1.78	0.84
1:E:384:LEU:HD21	1:E:387:ILE:H	1.38	0.84
1:E:239:THR:CB	1:E:243:PRO:HB3	2.06	0.84
1:B:455:ARG:HH21	1:B:538:VAL:HG21	1.40	0.84
1:G:443:LEU:CA	1:G:446:ILE:HD11	1.90	0.84
1:D:239:THR:OG1	1:D:241:GLY:HA2	1.77	0.84
1:G:571:LYS:HE3	1:G:575:ARG:HH12	1.43	0.84
1:D:591:PHE:CE2	1:D:666:TYR:CB	2.59	0.84
1:B:546:ALA:O	1:B:550:THR:HG23	1.77	0.84
1:B:121:VAL:HG22	1:B:172:THR:HG21	1.57	0.84
1:E:542:VAL:CG1	1:G:598:LEU:HG	2.07	0.84
1:G:678:LEU:CA	1:G:681:LEU:HD12	2.03	0.84
1:E:482:VAL:HA	1:E:523:MET:HE2	1.59	0.84
1:D:678:LEU:CA	1:D:681:LEU:HD12	2.03	0.84
1:B:375:GLY:CA	1:E:210:GLU:HA	2.07	0.84
1:D:358:HIS:HA	1:D:362:CYS:SG	2.18	0.84
1:E:358:HIS:HA	1:E:362:CYS:SG	2.18	0.84
1:B:239:THR:CB	1:B:243:PRO:HB3	2.06	0.84
1:B:639:LYS:CD	1:E:647:LEU:HB3	2.07	0.84
1:G:243:PRO:HB2	1:G:244:GLY:CA	2.08	0.84
1:B:572:MET:CE	1:B:685:THR:OG1	2.24	0.84
1:G:431:LYS:O	1:G:435:TYR:HD2	1.61	0.84
1:B:358:HIS:HA	1:B:362:CYS:SG	2.18	0.84
1:B:239:THR:OG1	1:B:241:GLY:HA2	1.77	0.84
1:B:693:SER:CA	1:B:696:ILE:HG13	2.03	0.83
1:D:431:LYS:O	1:D:435:TYR:HD2	1.61	0.83
1:G:511:TYR:CE1	1:G:570:GLU:CG	2.46	0.83
1:B:431:LYS:O	1:B:435:TYR:HD2	1.61	0.83
1:G:127:GLN:O	1:G:130:GLU:HG3	1.78	0.83
1:B:434:PHE:HZ	1:B:555:TYR:O	1.61	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:243:PRO:HB2	1:D:244:GLY:CA	2.08	0.83
1:E:434:PHE:HZ	1:E:555:TYR:O	1.61	0.83
1:E:431:LYS:O	1:E:435:TYR:HD2	1.61	0.83
1:E:443:LEU:O	1:E:447:ILE:HD13	1.77	0.83
1:G:382:TYR:CD2	1:G:416:GLU:CB	2.62	0.83
1:E:136:LEU:HD23	1:E:136:LEU:H	1.41	0.83
1:E:693:SER:CA	1:E:696:ILE:HG13	2.03	0.83
1:D:673:LEU:HD11	1:G:572:MET:HB3	1.58	0.83
1:B:660:ILE:HD13	1:B:660:ILE:H	1.41	0.83
1:D:375:GLY:N	1:B:210:GLU:CG	2.13	0.83
1:G:358:HIS:HA	1:G:362:CYS:SG	2.18	0.83
1:E:374:TYR:CA	1:G:210:GLU:OE2	2.26	0.83
1:D:639:LYS:CD	1:B:647:LEU:HB3	2.09	0.83
1:D:443:LEU:O	1:D:447:ILE:HD13	1.77	0.83
1:E:572:MET:HB2	1:G:673:LEU:HD11	1.57	0.83
1:G:660:ILE:HD13	1:G:660:ILE:H	1.41	0.83
1:B:583:VAL:O	1:B:586:VAL:HG12	1.79	0.83
1:D:382:TYR:CD2	1:D:416:GLU:CB	2.62	0.83
1:E:639:LYS:CD	1:G:647:LEU:HB3	2.06	0.83
1:E:453:TYR:CD1	1:G:596:VAL:HG11	2.12	0.83
1:E:678:LEU:HD11	1:E:682:MET:CE	2.09	0.83
1:B:482:VAL:N	1:B:523:MET:HE1	1.94	0.83
1:E:382:TYR:CD2	1:E:416:GLU:CB	2.62	0.83
1:E:243:PRO:HB2	1:E:244:GLY:CA	2.08	0.83
1:D:127:GLN:O	1:D:130:GLU:HG3	1.78	0.83
1:G:511:TYR:O	1:G:514:ILE:HG22	1.78	0.83
1:D:583:VAL:O	1:D:586:VAL:HG12	1.79	0.83
1:E:660:ILE:H	1:E:660:ILE:HD13	1.41	0.83
1:E:542:VAL:CG2	1:G:598:LEU:HG	2.09	0.83
1:D:542:VAL:HG21	1:B:598:LEU:HG	1.59	0.83
1:E:638:PHE:CE1	1:G:668:ILE:HG21	2.14	0.82
1:D:210:GLU:HA	1:G:375:GLY:CA	2.08	0.82
1:D:596:VAL:HG11	1:G:453:TYR:CD1	2.13	0.82
1:G:678:LEU:HD11	1:G:682:MET:CE	2.09	0.82
1:B:376:PRO:CG	1:E:247:PHE:CD2	2.62	0.82
1:G:583:VAL:O	1:G:586:VAL:HG12	1.79	0.82
1:E:353:LEU:HA	1:E:367:ARG:CD	2.09	0.82
1:B:511:TYR:O	1:B:514:ILE:HG22	1.78	0.82
1:D:564:ILE:CG1	1:D:693:SER:CB	2.42	0.82
1:E:678:LEU:HD11	1:E:682:MET:HE2	1.61	0.82
1:D:511:TYR:O	1:D:514:ILE:HG22	1.78	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:382:TYR:CD2	1:B:416:GLU:CB	2.62	0.82
1:D:542:VAL:HG21	1:B:598:LEU:HD23	1.62	0.82
1:D:453:TYR:CE1	1:B:596:VAL:HG11	2.14	0.82
1:D:559:PHE:CA	1:D:697:TRP:HE1	1.93	0.82
1:E:559:PHE:CA	1:E:697:TRP:HE1	1.93	0.82
1:B:353:LEU:HA	1:B:367:ARG:CD	2.09	0.82
1:B:127:GLN:O	1:B:130:GLU:HG3	1.78	0.82
1:D:638:PHE:HZ	1:B:668:ILE:HG21	1.42	0.82
1:D:353:LEU:HA	1:D:367:ARG:CD	2.09	0.82
1:G:353:LEU:HA	1:G:367:ARG:CD	2.09	0.82
1:B:453:TYR:CE1	1:E:596:VAL:HG11	2.15	0.82
1:B:559:PHE:CA	1:B:697:TRP:HE1	1.93	0.81
1:G:482:VAL:N	1:G:523:MET:HE1	1.93	0.81
1:D:376:PRO:CG	1:B:247:PHE:CD2	2.63	0.81
1:B:542:VAL:HG21	1:E:598:LEU:HD23	1.59	0.81
1:B:678:LEU:HD11	1:B:682:MET:CE	2.09	0.81
1:B:564:ILE:O	1:B:689:ILE:HD11	1.81	0.81
1:D:678:LEU:HD11	1:D:682:MET:CE	2.09	0.81
1:E:631:TYR:CD2	2:H:23:UNK:O	2.33	0.81
1:B:521:LEU:CD1	1:B:522:PHE:H	1.82	0.81
1:D:669:LEU:HD12	1:D:669:LEU:O	1.80	0.81
1:G:559:PHE:CA	1:G:697:TRP:HE1	1.93	0.81
1:D:374:TYR:C	1:B:210:GLU:HG2	2.01	0.81
1:E:583:VAL:O	1:E:586:VAL:HG12	1.79	0.81
1:E:760:UNK:HA	1:E:761:UNK:CB	2.11	0.81
1:B:426:TRP:CA	1:B:430:VAL:HG23	2.09	0.81
1:E:669:LEU:O	1:E:669:LEU:HD12	1.80	0.81
1:B:631:TYR:CE2	2:F:24:UNK:HA	2.02	0.81
1:E:359:GLU:CG	1:E:360:PRO:HD2	2.11	0.81
1:G:686:VAL:O	1:G:689:ILE:HG23	1.81	0.81
1:G:669:LEU:HD12	1:G:669:LEU:O	1.80	0.81
1:E:375:GLY:CA	1:G:210:GLU:HA	2.11	0.81
1:D:426:TRP:CD1	1:D:430:VAL:CG1	2.58	0.81
1:G:760:UNK:HA	1:G:761:UNK:CB	2.11	0.81
1:D:359:GLU:CG	1:D:360:PRO:HD2	2.11	0.81
1:D:564:ILE:O	1:D:689:ILE:HD11	1.80	0.81
1:G:359:GLU:CG	1:G:360:PRO:HD2	2.11	0.81
1:B:669:LEU:O	1:B:669:LEU:HD12	1.80	0.81
1:D:210:GLU:OE2	1:G:374:TYR:CA	2.29	0.81
1:D:434:PHE:HZ	1:D:555:TYR:O	1.61	0.81
1:E:571:LYS:HE3	1:E:575:ARG:HH12	1.43	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:672:ILE:HG22	1:D:673:LEU:HD22	1.64	0.80
1:E:564:ILE:O	1:E:689:ILE:HD11	1.80	0.80
1:G:426:TRP:CA	1:G:430:VAL:HG23	2.09	0.80
1:G:431:LYS:O	1:G:435:TYR:CD2	2.35	0.80
1:B:575:ARG:O	1:B:579:ARG:CD	2.28	0.80
1:B:760:UNK:HA	1:B:761:UNK:CB	2.11	0.80
1:E:426:TRP:CA	1:E:430:VAL:HG23	2.09	0.80
1:E:572:MET:CG	1:G:673:LEU:CD1	2.59	0.80
1:G:453:TYR:HE2	1:G:454:TYR:CE1	1.99	0.80
1:B:638:PHE:HZ	1:E:668:ILE:HG21	1.41	0.80
1:D:686:VAL:O	1:D:689:ILE:HG23	1.81	0.80
1:D:511:TYR:CE1	1:D:570:GLU:CG	2.46	0.80
1:G:571:LYS:HE2	1:G:575:ARG:HG2	1.64	0.80
1:D:591:PHE:HE2	1:D:666:TYR:HB2	1.41	0.80
1:D:359:GLU:OE2	1:D:360:PRO:CD	2.28	0.80
1:D:560:GLN:N	1:D:697:TRP:CD1	2.50	0.80
1:B:359:GLU:CG	1:B:360:PRO:HD2	2.11	0.80
1:E:453:TYR:HE2	1:E:454:TYR:CE1	1.99	0.80
1:E:560:GLN:N	1:E:697:TRP:CD1	2.50	0.80
1:E:638:PHE:HZ	1:G:668:ILE:CG2	1.94	0.80
1:G:441:TYR:CZ	1:G:445:MET:SD	2.75	0.80
1:B:542:VAL:CG1	1:E:598:LEU:HG	2.11	0.80
1:G:421:LEU:HD21	1:G:425:LYS:NZ	1.97	0.80
1:G:672:ILE:HG22	1:G:673:LEU:HD22	1.64	0.80
1:E:482:VAL:N	1:E:523:MET:HE1	1.95	0.80
1:D:566:ALA:O	1:D:569:ILE:HG22	1.81	0.80
1:B:243:PRO:HB2	1:B:244:GLY:CA	2.08	0.80
1:D:421:LEU:HD21	1:D:425:LYS:NZ	1.97	0.80
1:D:431:LYS:O	1:D:435:TYR:CD2	2.35	0.80
1:B:353:LEU:C	1:B:354:GLN:NE2	2.35	0.80
1:E:353:LEU:C	1:E:354:GLN:NE2	2.35	0.80
1:D:353:LEU:C	1:D:354:GLN:NE2	2.35	0.80
1:E:441:TYR:CZ	1:E:445:MET:SD	2.75	0.79
1:G:580:PHE:HZ	1:G:674:LEU:CB	1.95	0.79
1:D:426:TRP:CA	1:D:430:VAL:HG23	2.09	0.79
1:E:445:MET:HE3	1:E:445:MET:HA	1.63	0.79
2:C:13:UNK:HA	2:C:14:UNK:CB	2.12	0.79
1:B:591:PHE:HE2	1:B:666:TYR:HB2	1.41	0.79
1:G:359:GLU:N	1:G:362:CYS:HB3	1.97	0.79
1:B:564:ILE:CG1	1:B:693:SER:CB	2.42	0.79
1:E:421:LEU:HD21	1:E:425:LYS:NZ	1.97	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:374:TYR:C	1:E:210:GLU:HG2	2.02	0.79
1:E:354:GLN:HG3	1:E:382:TYR:CE1	2.18	0.79
1:D:453:TYR:HE2	1:D:454:TYR:CE1	1.99	0.79
1:D:441:TYR:CZ	1:D:445:MET:SD	2.75	0.79
1:E:686:VAL:O	1:E:689:ILE:HG23	1.81	0.79
1:G:564:ILE:O	1:G:689:ILE:HD11	1.81	0.79
1:G:560:GLN:N	1:G:697:TRP:CD1	2.50	0.79
2:A:13:UNK:HA	2:A:14:UNK:CB	2.12	0.79
1:D:598:LEU:HD21	1:G:542:VAL:HG21	1.63	0.79
1:B:421:LEU:HD21	1:B:425:LYS:NZ	1.97	0.79
1:E:566:ALA:O	1:E:569:ILE:HG22	1.81	0.79
1:B:566:ALA:O	1:B:569:ILE:HG22	1.81	0.79
1:E:655:PHE:CA	2:F:10:UNK:O	2.31	0.79
1:E:575:ARG:O	1:E:579:ARG:CD	2.28	0.79
1:D:591:PHE:CD2	1:D:666:TYR:CG	2.71	0.79
1:G:353:LEU:C	1:G:354:GLN:NE2	2.35	0.79
1:B:453:TYR:HE2	1:B:454:TYR:CE1	1.99	0.79
1:B:664:LEU:O	1:B:668:ILE:CG2	2.31	0.79
1:E:431:LYS:O	1:E:435:TYR:CD2	2.35	0.79
1:E:591:PHE:CD2	1:E:666:TYR:CG	2.71	0.79
1:B:354:GLN:HG3	1:B:382:TYR:CE1	2.18	0.79
1:D:668:ILE:HG21	1:G:638:PHE:HZ	1.48	0.79
1:E:580:PHE:HZ	1:E:674:LEU:CB	1.95	0.79
1:B:672:ILE:HG22	1:B:673:LEU:HD22	1.64	0.79
1:E:571:LYS:HE2	1:E:575:ARG:HG2	1.64	0.79
1:E:359:GLU:N	1:E:362:CYS:HB3	1.97	0.79
1:G:354:GLN:HG3	1:G:382:TYR:CE1	2.17	0.79
1:B:686:VAL:O	1:B:689:ILE:HG23	1.81	0.79
1:G:575:ARG:O	1:G:579:ARG:CD	2.28	0.79
1:D:580:PHE:HZ	1:D:674:LEU:CB	1.95	0.79
1:B:359:GLU:N	1:B:362:CYS:HB3	1.97	0.79
1:B:441:TYR:CZ	1:B:445:MET:SD	2.75	0.79
1:B:560:GLN:N	1:B:697:TRP:CD1	2.50	0.79
1:D:542:VAL:CG1	1:B:598:LEU:HG	2.13	0.79
1:G:434:PHE:HZ	1:G:555:TYR:O	1.61	0.79
1:D:760:UNK:HA	1:D:761:UNK:CB	2.11	0.79
1:B:431:LYS:O	1:B:435:TYR:CD2	2.35	0.78
1:E:511:TYR:HE1	1:E:570:GLU:HG3	1.46	0.78
1:E:570:GLU:O	1:E:574:LEU:CD2	2.31	0.78
1:B:571:LYS:HE2	1:B:575:ARG:HG2	1.64	0.78
1:G:591:PHE:CD2	1:G:666:TYR:CG	2.71	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:672:ILE:HA	1:B:676:ASN:HD21	1.48	0.78
1:D:664:LEU:O	1:D:668:ILE:CG2	2.31	0.78
1:D:672:ILE:HA	1:D:676:ASN:HD21	1.48	0.78
1:E:664:LEU:O	1:E:668:ILE:CG2	2.31	0.78
1:G:566:ALA:O	1:G:569:ILE:HG22	1.81	0.78
1:B:453:TYR:CD1	1:E:596:VAL:HG11	2.18	0.78
1:D:635:LEU:HD21	1:B:664:LEU:CD2	2.13	0.78
1:G:444:TYR:CE1	1:G:484:GLY:CA	2.56	0.78
1:D:631:TYR:CE2	2:C:24:UNK:HA	2.03	0.78
1:B:591:PHE:CD2	1:B:666:TYR:CG	2.71	0.78
1:B:542:VAL:HG21	1:E:598:LEU:HD21	1.63	0.78
1:D:453:TYR:CD1	1:B:596:VAL:HG11	2.18	0.78
1:E:672:ILE:HG22	1:E:673:LEU:HD22	1.64	0.78
1:E:672:ILE:HA	1:E:676:ASN:HD21	1.48	0.78
1:G:672:ILE:HA	1:G:676:ASN:HD21	1.48	0.78
1:B:570:GLU:O	1:B:574:LEU:CD2	2.31	0.78
1:B:580:PHE:HZ	1:B:674:LEU:CB	1.95	0.78
1:B:627:TYR:CD2	1:B:633:THR:CG2	2.64	0.78
1:D:417:PRO:O	1:D:421:LEU:N	2.15	0.78
1:G:570:GLU:O	1:G:574:LEU:CD2	2.31	0.78
1:D:571:LYS:HE2	1:D:575:ARG:HG2	1.64	0.78
1:D:571:LYS:HE3	1:D:575:ARG:HH12	1.43	0.78
1:D:198:TYR:CE2	1:G:372:TRP:HE3	1.96	0.78
1:D:655:PHE:CA	2:A:10:UNK:O	2.31	0.78
1:D:354:GLN:HG3	1:D:382:TYR:CE1	2.18	0.78
1:G:710:LYS:HE3	1:G:710:LYS:HA	1.65	0.78
2:H:13:UNK:HA	2:H:14:UNK:CB	2.12	0.78
1:D:598:LEU:HG	1:G:542:VAL:CG2	2.13	0.78
1:D:542:VAL:HG21	1:B:598:LEU:HD21	1.64	0.78
1:B:638:PHE:HZ	1:E:668:ILE:CG2	1.93	0.78
1:D:712:PHE:O	1:D:713:LEU:HB2	1.84	0.78
1:E:642:ILE:HD11	1:G:668:ILE:HG22	1.63	0.78
2:F:13:UNK:HA	2:F:14:UNK:CB	2.12	0.78
1:D:570:GLU:O	1:D:574:LEU:CD2	2.31	0.78
1:E:353:LEU:CD2	1:E:386:CYS:SG	2.72	0.78
1:D:210:GLU:CG	1:G:375:GLY:N	2.19	0.77
1:E:511:TYR:CD1	1:E:570:GLU:HG2	1.99	0.77
1:B:359:GLU:OE2	1:B:360:PRO:CD	2.28	0.77
1:D:359:GLU:N	1:D:362:CYS:HB3	1.97	0.77
1:D:710:LYS:HA	1:D:710:LYS:HE3	1.65	0.77
1:G:417:PRO:O	1:G:421:LEU:N	2.15	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:664:LEU:CD2	1:G:635:LEU:HD21	2.13	0.77
1:D:210:GLU:HG2	1:G:374:TYR:C	2.03	0.77
1:D:380:SER:O	1:D:754:UNK:CA	2.32	0.77
1:E:417:PRO:O	1:E:421:LEU:N	2.15	0.77
1:E:471:ASP:O	1:E:475:VAL:CG2	2.33	0.77
1:E:572:MET:HG3	1:G:673:LEU:HD12	1.66	0.77
1:G:664:LEU:O	1:G:668:ILE:CG2	2.31	0.77
1:B:559:PHE:C	1:B:697:TRP:CD1	2.58	0.77
1:E:572:MET:CB	1:G:673:LEU:CD1	2.57	0.77
1:B:635:LEU:HD21	1:E:664:LEU:CD2	2.14	0.77
1:E:710:LYS:HA	1:E:710:LYS:HE3	1.65	0.77
1:G:380:SER:O	1:G:754:UNK:CA	2.32	0.77
1:E:712:PHE:O	1:E:713:LEU:HB2	1.84	0.77
1:B:678:LEU:HD11	1:B:682:MET:HE2	1.66	0.77
1:D:638:PHE:HA	1:D:641:THR:HG22	1.67	0.77
1:E:374:TYR:C	1:G:210:GLU:HG2	2.04	0.77
1:G:357:ILE:H	1:G:366:SER:HG	1.30	0.77
1:G:638:PHE:HA	1:G:641:THR:HG22	1.67	0.77
1:G:655:PHE:CA	2:H:10:UNK:O	2.31	0.77
1:B:571:LYS:HE3	1:B:575:ARG:HH12	1.43	0.77
1:D:461:PRO:CB	1:D:530:TYR:CE1	2.68	0.77
1:G:471:ASP:O	1:G:475:VAL:CG2	2.33	0.77
1:E:396:LEU:O	1:E:399:ILE:HG22	1.84	0.77
1:D:559:PHE:C	1:D:697:TRP:CD1	2.58	0.77
1:D:247:PHE:CD2	1:G:376:PRO:CG	2.68	0.77
1:G:337:LEU:CD2	1:G:395:VAL:CB	2.62	0.77
1:D:647:LEU:HB3	1:G:639:LYS:CD	2.14	0.77
1:B:712:PHE:O	1:B:713:LEU:HB2	1.84	0.77
1:B:461:PRO:CB	1:B:530:TYR:CE1	2.68	0.77
1:G:461:PRO:CB	1:G:530:TYR:CE1	2.68	0.77
1:B:471:ASP:O	1:B:475:VAL:CG2	2.33	0.77
1:E:564:ILE:CG1	1:E:693:SER:CB	2.42	0.77
1:E:568:MET:HE2	1:E:689:ILE:HD13	1.65	0.77
1:G:559:PHE:C	1:G:697:TRP:CD1	2.58	0.77
1:D:444:TYR:CE1	1:D:484:GLY:CA	2.56	0.77
1:G:369:PHE:O	1:G:381:LEU:HB3	1.85	0.77
1:E:357:ILE:H	1:E:366:SER:HG	1.30	0.77
1:E:337:LEU:CD2	1:E:395:VAL:CB	2.62	0.77
1:B:405:GLU:C	1:B:407:PRO:HD3	2.05	0.77
1:B:380:SER:O	1:B:754:UNK:CA	2.32	0.77
1:E:380:SER:O	1:E:754:UNK:CA	2.32	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:396:LEU:O	1:B:399:ILE:HG22	1.84	0.77
1:B:572:MET:CG	1:E:673:LEU:CD1	2.63	0.76
1:E:374:TYR:CB	1:G:235:PHE:CE1	2.68	0.76
1:B:353:LEU:CD2	1:B:386:CYS:SG	2.72	0.76
1:D:405:GLU:C	1:D:407:PRO:HD3	2.05	0.76
1:B:560:GLN:CA	1:B:697:TRP:CD1	2.68	0.76
1:E:560:GLN:CA	1:E:697:TRP:CD1	2.68	0.76
1:E:638:PHE:HZ	1:G:668:ILE:HG21	1.45	0.76
1:D:374:TYR:CB	1:B:210:GLU:OE2	2.33	0.76
1:E:375:GLY:H	1:G:210:GLU:HG2	0.61	0.76
1:B:591:PHE:CD2	1:B:666:TYR:CB	2.69	0.76
1:D:353:LEU:CD2	1:D:386:CYS:SG	2.72	0.76
1:B:337:LEU:CD2	1:B:395:VAL:CB	2.62	0.76
1:D:538:VAL:HG13	1:D:539:ALA:N	2.00	0.76
1:D:127:GLN:HG2	1:D:130:GLU:OE2	1.85	0.76
1:D:638:PHE:HZ	1:B:668:ILE:CG2	1.95	0.76
1:G:353:LEU:CD2	1:G:386:CYS:SG	2.72	0.76
1:B:710:LYS:HE3	1:B:710:LYS:HA	1.65	0.76
1:B:127:GLN:HG2	1:B:130:GLU:OE2	1.85	0.76
1:B:417:PRO:O	1:B:421:LEU:N	2.15	0.76
1:E:559:PHE:C	1:E:697:TRP:CD1	2.58	0.76
1:E:638:PHE:HA	1:E:641:THR:HG22	1.67	0.76
1:B:655:PHE:CA	2:C:10:UNK:O	2.31	0.76
1:E:369:PHE:O	1:E:381:LEU:HB3	1.85	0.76
1:G:127:GLN:HG2	1:G:130:GLU:OE2	1.85	0.76
1:E:631:TYR:CD2	2:H:24:UNK:CA	1.84	0.76
1:E:374:TYR:CB	1:G:235:PHE:HE1	1.97	0.76
1:E:591:PHE:CD2	1:E:666:TYR:CB	2.69	0.76
1:E:591:PHE:HE2	1:E:666:TYR:HB2	1.41	0.76
1:G:591:PHE:CD2	1:G:666:TYR:CB	2.69	0.76
1:E:127:GLN:HG2	1:E:130:GLU:OE2	1.85	0.76
1:D:396:LEU:O	1:D:399:ILE:HG22	1.84	0.76
1:G:396:LEU:O	1:G:399:ILE:HG22	1.84	0.76
1:D:560:GLN:CA	1:D:697:TRP:CD1	2.68	0.76
1:E:461:PRO:CB	1:E:530:TYR:CE1	2.68	0.76
1:D:598:LEU:HG	1:G:542:VAL:CG1	2.16	0.76
1:E:405:GLU:C	1:E:407:PRO:HD3	2.05	0.76
1:D:673:LEU:HD11	1:G:572:MET:HB2	1.65	0.76
1:B:511:TYR:CD1	1:B:570:GLU:HG2	1.99	0.76
1:G:712:PHE:O	1:G:713:LEU:HB2	1.84	0.76
1:E:538:VAL:HG13	1:E:539:ALA:N	2.01	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:374:TYR:CB	1:E:235:PHE:HE1	1.97	0.76
1:G:405:GLU:C	1:G:407:PRO:HD3	2.05	0.75
1:B:560:GLN:O	1:B:564:ILE:CD1	2.34	0.75
1:D:481:SER:O	1:D:523:MET:HE1	1.83	0.75
1:E:631:TYR:CD2	2:H:24:UNK:CB	2.69	0.75
1:B:374:TYR:CB	1:E:235:PHE:CE1	2.69	0.75
1:G:560:GLN:CA	1:G:697:TRP:CD1	2.68	0.75
1:B:374:TYR:CB	1:E:210:GLU:OE2	2.34	0.75
1:B:638:PHE:HA	1:B:641:THR:HG22	1.67	0.75
1:E:511:TYR:HE2	1:E:515:LEU:HD11	1.49	0.75
1:D:591:PHE:CD2	1:D:666:TYR:CB	2.69	0.75
1:E:359:GLU:OE2	1:E:360:PRO:CD	2.28	0.75
1:D:598:LEU:HD23	1:G:542:VAL:HG21	1.64	0.75
1:G:710:LYS:NZ	1:G:710:LYS:HA	2.02	0.75
1:B:572:MET:HB2	1:E:673:LEU:HD11	1.65	0.75
1:G:568:MET:HB3	1:G:689:ILE:HD13	1.66	0.75
1:E:444:TYR:CE1	1:E:484:GLY:CA	2.56	0.75
1:G:538:VAL:HG13	1:G:539:ALA:N	2.00	0.75
1:D:375:GLY:H	1:B:210:GLU:HG2	0.60	0.75
1:G:353:LEU:O	1:G:354:GLN:NE2	2.20	0.75
1:G:511:TYR:HE2	1:G:515:LEU:HD11	1.50	0.75
1:D:572:MET:HB2	1:B:673:LEU:HD11	1.66	0.74
1:G:568:MET:CE	1:G:689:ILE:HD13	2.17	0.74
1:D:369:PHE:O	1:D:381:LEU:HB3	1.85	0.74
1:D:471:ASP:O	1:D:475:VAL:CG2	2.33	0.74
1:D:710:LYS:HA	1:D:710:LYS:NZ	2.02	0.74
1:D:560:GLN:O	1:D:564:ILE:CD1	2.34	0.74
1:E:635:LEU:HD21	1:G:664:LEU:CD2	2.16	0.74
1:B:631:TYR:CD2	2:F:23:UNK:O	2.40	0.74
1:D:374:TYR:CB	1:B:235:PHE:HE1	1.99	0.74
1:E:580:PHE:CE2	1:E:674:LEU:CD1	2.68	0.74
1:B:542:VAL:CG2	1:E:598:LEU:HG	2.16	0.74
1:E:657:ALA:C	1:E:660:ILE:CD1	2.54	0.74
1:G:657:ALA:C	1:G:660:ILE:CD1	2.54	0.74
1:B:710:LYS:NZ	1:B:710:LYS:HA	2.02	0.74
1:B:568:MET:HB3	1:B:689:ILE:HD13	1.66	0.74
1:E:353:LEU:O	1:E:354:GLN:NE2	2.20	0.74
1:D:568:MET:CE	1:D:689:ILE:HD13	2.17	0.74
1:D:580:PHE:HZ	1:D:674:LEU:HD13	1.50	0.74
1:E:542:VAL:HG11	1:G:598:LEU:CG	2.18	0.74
1:G:511:TYR:CD1	1:G:570:GLU:HG2	1.99	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:511:TYR:CD1	1:D:570:GLU:HG2	1.99	0.74
1:D:575:ARG:O	1:D:579:ARG:CD	2.28	0.74
1:B:369:PHE:O	1:B:381:LEU:HB3	1.85	0.74
1:B:353:LEU:O	1:B:354:GLN:NE2	2.20	0.74
1:B:529:LEU:O	1:B:532:SER:OG	2.05	0.74
1:G:529:LEU:O	1:G:532:SER:OG	2.05	0.74
1:B:538:VAL:HG13	1:B:539:ALA:N	2.00	0.74
1:G:560:GLN:O	1:G:564:ILE:CD1	2.34	0.74
1:D:591:PHE:CE2	1:D:666:TYR:HD1	2.06	0.74
1:G:243:PRO:CB	1:G:244:GLY:HA3	2.16	0.74
1:B:756:UNK:N	1:E:242:ARG:O	2.18	0.74
1:B:572:MET:CB	1:E:673:LEU:CD1	2.63	0.74
1:E:560:GLN:O	1:E:564:ILE:CD1	2.34	0.74
1:B:599:ILE:HD12	1:B:599:ILE:N	2.03	0.74
1:B:644:MET:SD	1:E:647:LEU:CD2	2.74	0.74
1:B:549:TRP:HZ3	1:B:552:MET:SD	2.11	0.74
1:D:572:MET:CG	1:B:673:LEU:CD1	2.66	0.74
1:D:668:ILE:HD12	1:D:669:LEU:N	2.03	0.74
1:D:353:LEU:O	1:D:354:GLN:NE2	2.20	0.74
1:D:337:LEU:CD2	1:D:395:VAL:CB	2.62	0.74
1:D:542:VAL:CG2	1:B:598:LEU:HG	2.17	0.73
1:D:572:MET:CB	1:B:673:LEU:CD1	2.65	0.73
1:E:529:LEU:CA	1:E:532:SER:OG	2.36	0.73
1:E:242:ARG:N	1:E:243:PRO:HA	1.98	0.73
1:E:710:LYS:NZ	1:E:710:LYS:HA	2.02	0.73
1:B:560:GLN:OE1	1:B:560:GLN:N	2.17	0.73
1:B:568:MET:CE	1:B:689:ILE:HD13	2.17	0.73
1:D:242:ARG:N	1:G:756:UNK:CB	2.51	0.73
1:B:591:PHE:CE2	1:B:666:TYR:HD1	2.06	0.73
1:G:599:ILE:HD12	1:G:599:ILE:N	2.03	0.73
1:E:529:LEU:O	1:E:532:SER:OG	2.05	0.73
1:E:675:LEU:O	1:E:679:ILE:HG13	1.89	0.73
1:E:568:MET:CE	1:E:689:ILE:HD13	2.17	0.73
1:B:657:ALA:C	1:B:660:ILE:CD1	2.54	0.73
1:B:668:ILE:HD12	1:B:669:LEU:N	2.03	0.73
1:E:549:TRP:HZ3	1:E:552:MET:SD	2.11	0.73
1:B:668:ILE:O	1:B:672:ILE:HG12	1.89	0.73
1:E:668:ILE:O	1:E:672:ILE:HG12	1.89	0.73
1:E:599:ILE:N	1:E:599:ILE:HD12	2.03	0.73
1:E:351:TYR:O	1:E:355:ARG:CB	2.36	0.73
1:D:374:TYR:CB	1:B:235:PHE:CE1	2.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:529:LEU:O	1:D:532:SER:OG	2.05	0.73
1:B:136:LEU:HB2	1:B:141:LYS:O	1.89	0.73
1:D:549:TRP:HZ3	1:D:552:MET:SD	2.11	0.73
1:G:668:ILE:HD12	1:G:669:LEU:N	2.03	0.73
1:E:572:MET:CG	1:G:673:LEU:HD11	2.17	0.73
1:D:243:PRO:CB	1:D:244:GLY:HA3	2.15	0.73
1:D:627:TYR:CD2	1:D:633:THR:CG2	2.64	0.73
1:B:529:LEU:CA	1:B:532:SER:OG	2.36	0.73
1:G:529:LEU:CA	1:G:532:SER:OG	2.36	0.73
1:E:243:PRO:CB	1:E:244:GLY:HA3	2.15	0.73
1:D:351:TYR:O	1:D:355:ARG:CB	2.37	0.73
1:B:426:TRP:CD1	1:B:430:VAL:C	2.63	0.73
1:D:426:TRP:CD1	1:D:430:VAL:C	2.63	0.73
1:E:568:MET:HB3	1:E:689:ILE:HD13	1.66	0.73
1:E:668:ILE:HD12	1:E:669:LEU:N	2.03	0.73
1:G:675:LEU:O	1:G:679:ILE:HG13	1.89	0.73
1:B:444:TYR:CE1	1:B:484:GLY:CA	2.56	0.73
1:D:638:PHE:CE1	1:B:668:ILE:HG22	2.24	0.73
1:G:560:GLN:N	1:G:560:GLN:OE1	2.17	0.73
1:D:210:GLU:OE2	1:G:374:TYR:CB	2.36	0.73
1:G:416:GLU:O	1:G:420:ARG:CB	2.37	0.73
1:D:529:LEU:CA	1:D:532:SER:OG	2.36	0.73
1:G:136:LEU:HB2	1:G:141:LYS:O	1.89	0.73
1:D:426:TRP:HZ3	1:D:701:ARG:NH1	1.87	0.72
1:E:591:PHE:CE2	1:E:666:TYR:HD1	2.06	0.72
1:D:635:LEU:HD22	1:B:664:LEU:HD21	1.69	0.72
1:G:549:TRP:HZ3	1:G:552:MET:SD	2.11	0.72
1:D:657:ALA:C	1:D:660:ILE:CD1	2.54	0.72
1:B:416:GLU:O	1:B:420:ARG:CB	2.37	0.72
1:B:243:PRO:CB	1:B:244:GLY:HA3	2.16	0.72
1:B:351:TYR:O	1:B:355:ARG:CB	2.36	0.72
1:E:416:GLU:O	1:E:420:ARG:CB	2.37	0.72
1:D:597:THR:HG22	1:G:453:TYR:HA	1.70	0.72
1:E:136:LEU:HB2	1:E:141:LYS:O	1.89	0.72
1:G:426:TRP:CD1	1:G:430:VAL:C	2.63	0.72
1:D:416:GLU:O	1:D:420:ARG:CB	2.37	0.72
1:D:644:MET:SD	1:B:647:LEU:CD2	2.74	0.72
1:G:351:TYR:O	1:G:355:ARG:CB	2.36	0.72
1:B:488:PHE:HB2	1:B:520:SER:HB3	1.71	0.72
1:B:635:LEU:HD22	1:E:664:LEU:HD21	1.70	0.72
1:D:568:MET:O	1:D:572:MET:HG2	1.90	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:668:ILE:O	1:G:672:ILE:HG12	1.89	0.72
1:D:488:PHE:HB2	1:D:520:SER:HB3	1.71	0.72
1:B:423:GLN:HA	1:B:423:GLN:OE1	1.89	0.72
1:B:572:MET:HG3	1:E:673:LEU:HD12	1.72	0.72
1:B:672:ILE:C	1:B:676:ASN:ND2	2.43	0.72
1:D:668:ILE:O	1:D:672:ILE:HG12	1.89	0.72
1:E:580:PHE:HZ	1:E:674:LEU:CA	2.03	0.72
1:E:627:TYR:CD2	1:E:633:THR:CG2	2.64	0.72
1:E:413:LEU:HD22	1:E:413:LEU:O	1.90	0.72
1:G:568:MET:O	1:G:572:MET:HG2	1.90	0.72
1:D:580:PHE:HZ	1:D:674:LEU:CA	2.03	0.72
1:D:136:LEU:HB2	1:D:141:LYS:O	1.89	0.72
1:B:413:LEU:HD22	1:B:413:LEU:O	1.90	0.72
1:D:481:SER:O	1:D:523:MET:HE3	1.82	0.72
1:E:488:PHE:HB2	1:E:520:SER:HB3	1.71	0.72
1:D:673:LEU:CD1	1:G:572:MET:CG	2.68	0.71
1:G:564:ILE:CG1	1:G:693:SER:CB	2.42	0.71
1:D:242:ARG:N	1:D:243:PRO:HA	1.98	0.71
1:G:655:PHE:HB3	1:G:658:VAL:HB	1.72	0.71
1:D:445:MET:CE	1:D:445:MET:HA	2.20	0.71
1:D:672:ILE:C	1:D:676:ASN:ND2	2.43	0.71
1:E:426:TRP:CD1	1:E:430:VAL:C	2.63	0.71
1:G:568:MET:CA	1:G:689:ILE:HD12	2.21	0.71
1:B:445:MET:CE	1:B:445:MET:HA	2.20	0.71
1:B:638:PHE:HA	1:B:641:THR:CG2	2.20	0.71
1:B:675:LEU:O	1:B:679:ILE:HG13	1.89	0.71
1:G:359:GLU:OE2	1:G:360:PRO:CD	2.28	0.71
1:D:599:ILE:N	1:D:599:ILE:HD12	2.03	0.71
1:D:423:GLN:HA	1:D:423:GLN:OE1	1.89	0.71
1:D:638:PHE:HE1	1:B:668:ILE:CG2	2.02	0.71
1:G:672:ILE:C	1:G:676:ASN:ND2	2.43	0.71
1:B:655:PHE:HB3	1:B:658:VAL:HB	1.72	0.71
1:G:627:TYR:CD2	1:G:633:THR:CG2	2.64	0.71
1:E:445:MET:CE	1:E:445:MET:HA	2.20	0.71
1:E:568:MET:O	1:E:572:MET:HG2	1.90	0.71
1:E:423:GLN:HA	1:E:423:GLN:OE1	1.89	0.71
1:D:638:PHE:HA	1:D:641:THR:CG2	2.20	0.71
1:E:426:TRP:CE2	1:E:431:LYS:HA	2.26	0.71
1:G:631:TYR:CD2	2:A:24:UNK:CB	2.73	0.71
1:B:568:MET:O	1:B:572:MET:HG2	1.90	0.71
1:D:426:TRP:CE2	1:D:431:LYS:HA	2.26	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:664:LEU:HD21	1:G:635:LEU:HD22	1.73	0.71
1:G:580:PHE:HZ	1:G:674:LEU:CA	2.03	0.71
1:G:426:TRP:CE2	1:G:431:LYS:HA	2.26	0.71
1:D:631:TYR:CD2	2:C:23:UNK:O	2.43	0.71
1:G:488:PHE:HB2	1:G:520:SER:HB3	1.71	0.71
1:D:675:LEU:O	1:D:679:ILE:HG13	1.89	0.71
1:G:591:PHE:CE2	1:G:666:TYR:HD1	2.06	0.71
1:E:560:GLN:N	1:E:560:GLN:OE1	2.17	0.71
1:G:580:PHE:HZ	1:G:674:LEU:HD13	1.50	0.71
1:G:423:GLN:OE1	1:G:423:GLN:HA	1.89	0.71
1:D:413:LEU:O	1:D:413:LEU:HD22	1.90	0.71
1:E:436:PHE:O	1:E:440:VAL:HG23	1.91	0.71
1:B:568:MET:CA	1:B:689:ILE:HD12	2.21	0.70
1:D:568:MET:CA	1:D:689:ILE:HD12	2.20	0.70
1:D:655:PHE:HB3	1:D:658:VAL:HB	1.72	0.70
1:B:631:TYR:CD2	2:F:24:UNK:CB	2.73	0.70
1:B:657:ALA:HA	1:B:660:ILE:HD11	0.71	0.70
1:E:416:GLU:O	1:E:420:ARG:N	2.22	0.70
1:E:686:VAL:HA	1:E:689:ILE:CG2	2.22	0.70
1:G:638:PHE:HA	1:G:641:THR:CG2	2.20	0.70
1:G:580:PHE:CZ	1:G:674:LEU:CB	2.74	0.70
1:B:580:PHE:HZ	1:B:674:LEU:CA	2.03	0.70
1:E:354:GLN:HG3	1:E:382:TYR:HE1	1.56	0.70
1:E:306:THR:HG23	1:E:351:TYR:CE1	2.26	0.70
1:D:306:THR:HG23	1:D:351:TYR:CE1	2.26	0.70
1:B:306:THR:HG23	1:B:351:TYR:CE1	2.26	0.70
1:B:436:PHE:O	1:B:440:VAL:HG23	1.91	0.70
1:E:568:MET:CA	1:E:689:ILE:HD12	2.21	0.70
1:D:580:PHE:CZ	1:D:674:LEU:CB	2.74	0.70
1:B:638:PHE:CE1	1:E:668:ILE:HG22	2.24	0.70
1:E:672:ILE:C	1:E:676:ASN:ND2	2.44	0.70
1:E:374:TYR:CB	1:G:210:GLU:OE2	2.38	0.70
1:B:426:TRP:CE2	1:B:431:LYS:HA	2.26	0.70
1:E:559:PHE:HA	1:E:697:TRP:HE1	1.56	0.70
1:E:638:PHE:HA	1:E:641:THR:CG2	2.21	0.70
1:D:511:TYR:HE2	1:D:515:LEU:HD11	1.50	0.70
1:G:436:PHE:O	1:G:440:VAL:HG23	1.91	0.70
1:G:413:LEU:O	1:G:413:LEU:HD22	1.90	0.70
1:B:686:VAL:HA	1:B:689:ILE:CG2	2.22	0.70
1:G:445:MET:CE	1:G:445:MET:HA	2.20	0.70
1:D:210:GLU:HG2	1:G:374:TYR:CA	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:354:GLN:HG3	1:B:382:TYR:HE1	1.56	0.70
1:D:416:GLU:O	1:D:420:ARG:N	2.22	0.70
1:G:198:TYR:HE1	1:G:242:ARG:HD2	1.55	0.70
1:G:306:THR:HG23	1:G:351:TYR:CE1	2.26	0.70
1:D:436:PHE:O	1:D:440:VAL:HG23	1.91	0.70
1:D:678:LEU:HD11	1:D:682:MET:HE3	1.72	0.70
1:G:686:VAL:HA	1:G:689:ILE:CG2	2.22	0.70
1:G:678:LEU:HD11	1:G:682:MET:HE3	1.72	0.70
1:D:631:TYR:CD2	2:C:24:UNK:CB	2.74	0.70
2:H:15:UNK:O	2:H:16:UNK:O	2.10	0.70
1:B:580:PHE:CZ	1:B:674:LEU:CB	2.74	0.70
1:B:542:VAL:HG11	1:E:598:LEU:CG	2.21	0.70
1:D:597:THR:HG22	1:G:453:TYR:CA	2.22	0.70
1:B:559:PHE:HA	1:B:697:TRP:HE1	1.56	0.70
1:D:560:GLN:H	1:D:560:GLN:CD	1.95	0.70
1:D:572:MET:HE1	1:D:685:THR:OG1	1.92	0.70
1:E:638:PHE:CE1	1:G:668:ILE:HG22	2.25	0.70
1:G:242:ARG:N	1:G:243:PRO:HA	1.98	0.70
1:D:673:LEU:CD1	1:G:572:MET:CB	2.68	0.69
2:A:15:UNK:O	2:A:16:UNK:O	2.10	0.69
1:B:591:PHE:CE2	1:B:666:TYR:CD1	2.80	0.69
1:D:756:UNK:N	1:B:242:ARG:O	2.18	0.69
1:G:354:GLN:HG3	1:G:382:TYR:HE1	1.56	0.69
1:D:686:VAL:HA	1:D:689:ILE:CG2	2.22	0.69
1:B:638:PHE:HE1	1:E:668:ILE:CG2	2.04	0.69
2:H:9:UNK:N	2:H:26:UNK:O	2.25	0.69
1:E:434:PHE:CE2	1:E:555:TYR:O	2.46	0.69
1:E:425:LYS:C	1:E:430:VAL:HG23	2.13	0.69
1:B:572:MET:CG	1:E:673:LEU:HD11	2.21	0.69
2:C:15:UNK:O	2:C:16:UNK:O	2.10	0.69
1:E:580:PHE:CZ	1:E:674:LEU:CB	2.74	0.69
1:E:350:ALA:CB	1:E:414:LEU:HD11	2.22	0.69
1:G:184:ASP:C	1:G:186:LEU:H	1.96	0.69
2:F:5:UNK:O	2:F:6:UNK:CB	2.41	0.69
1:B:421:LEU:HD23	1:B:421:LEU:O	1.93	0.69
1:E:421:LEU:HD23	1:E:421:LEU:O	1.93	0.69
1:G:572:MET:HE1	1:G:685:THR:OG1	1.92	0.69
1:B:384:LEU:HD21	1:B:387:ILE:N	2.08	0.69
1:B:426:TRP:CD1	1:B:431:LYS:N	2.61	0.69
1:E:655:PHE:HB3	1:E:658:VAL:HB	1.72	0.69
1:D:580:PHE:CZ	1:D:674:LEU:HB3	2.28	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:384:LEU:HD21	1:E:387:ILE:N	2.08	0.69
1:D:184:ASP:C	1:D:186:LEU:H	1.96	0.69
1:B:425:LYS:C	1:B:430:VAL:HG23	2.13	0.69
1:D:421:LEU:HD23	1:D:421:LEU:O	1.93	0.69
1:D:668:ILE:CG2	1:G:638:PHE:HE1	2.04	0.69
1:G:580:PHE:CZ	1:G:674:LEU:HB3	2.28	0.69
1:B:495:TYR:CE2	1:B:513:GLU:OE1	2.46	0.69
2:A:5:UNK:O	2:A:6:UNK:CB	2.41	0.69
1:E:495:TYR:CE2	1:E:513:GLU:OE1	2.46	0.69
1:D:426:TRP:CD1	1:D:431:LYS:N	2.61	0.69
1:G:561:GLN:O	1:G:565:TYR:CD2	2.46	0.69
1:G:559:PHE:HA	1:G:697:TRP:HE1	1.56	0.69
1:G:631:TYR:CD2	2:A:23:UNK:O	2.45	0.69
2:F:15:UNK:O	2:F:16:UNK:O	2.10	0.69
2:F:9:UNK:N	2:F:26:UNK:O	2.25	0.69
1:E:198:TYR:HE1	1:E:242:ARG:HD2	1.55	0.69
1:D:434:PHE:CE2	1:D:555:TYR:O	2.46	0.69
1:D:568:MET:HB3	1:D:689:ILE:HD13	1.66	0.69
1:B:434:PHE:CE2	1:B:555:TYR:O	2.46	0.69
1:D:559:PHE:HA	1:D:697:TRP:HE1	1.56	0.69
1:G:426:TRP:CD1	1:G:431:LYS:N	2.61	0.69
1:D:657:ALA:N	1:D:660:ILE:CD1	2.56	0.69
1:E:631:TYR:CD2	2:H:23:UNK:C	2.74	0.69
1:D:357:ILE:H	1:D:366:SER:HG	1.37	0.69
1:B:350:ALA:CB	1:B:414:LEU:HD11	2.22	0.69
1:G:384:LEU:HD21	1:G:387:ILE:N	2.08	0.69
1:G:416:GLU:O	1:G:420:ARG:N	2.22	0.69
1:D:453:TYR:HA	1:B:597:THR:HG22	1.75	0.69
1:D:350:ALA:CB	1:D:414:LEU:HD11	2.22	0.69
1:B:184:ASP:C	1:B:186:LEU:H	1.96	0.69
1:D:495:TYR:CE2	1:D:513:GLU:OE1	2.45	0.69
1:E:426:TRP:CD1	1:E:431:LYS:N	2.61	0.69
1:G:421:LEU:O	1:G:421:LEU:HD23	1.93	0.69
1:G:425:LYS:C	1:G:430:VAL:HG23	2.13	0.69
1:D:668:ILE:HG22	1:G:638:PHE:CE1	2.27	0.69
1:D:482:VAL:N	1:D:523:MET:HE1	2.04	0.69
1:E:657:ALA:HA	1:E:660:ILE:HD11	0.71	0.69
1:D:580:PHE:CE2	1:D:674:LEU:CD1	2.68	0.69
1:G:591:PHE:CE2	1:G:666:TYR:CD1	2.80	0.69
1:D:647:LEU:CD2	1:G:644:MET:SD	2.75	0.69
1:G:495:TYR:CE2	1:G:513:GLU:OE1	2.45	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:561:GLN:O	1:E:565:TYR:CD2	2.46	0.68
1:E:635:LEU:HD22	1:G:664:LEU:HD21	1.75	0.68
2:A:9:UNK:N	2:A:26:UNK:O	2.25	0.68
1:B:657:ALA:N	1:B:660:ILE:CD1	2.56	0.68
1:D:375:GLY:HA2	1:B:210:GLU:HA	1.75	0.68
1:B:310:ASN:HB2	1:B:351:TYR:OH	1.93	0.68
1:E:184:ASP:C	1:E:186:LEU:H	1.96	0.68
1:D:425:LYS:C	1:D:430:VAL:HG23	2.13	0.68
1:B:511:TYR:HE2	1:B:515:LEU:HD11	1.49	0.68
1:D:580:PHE:HZ	1:D:674:LEU:CD1	2.01	0.68
1:D:302:THR:O	1:D:306:THR:HB	1.94	0.68
1:D:572:MET:HG3	1:B:673:LEU:HD12	1.74	0.68
2:C:9:UNK:N	2:C:26:UNK:O	2.25	0.68
1:G:657:ALA:HA	1:G:660:ILE:HD11	0.71	0.68
1:G:405:GLU:CB	1:G:407:PRO:HD3	2.24	0.68
1:B:302:THR:O	1:B:306:THR:HB	1.94	0.68
1:E:699:LEU:HD12	1:E:699:LEU:C	2.14	0.68
1:G:699:LEU:C	1:G:699:LEU:HD12	2.14	0.68
2:C:5:UNK:O	2:C:6:UNK:CB	2.41	0.68
1:B:572:MET:HE1	1:B:685:THR:OG1	1.92	0.68
1:D:688:LYS:HG3	1:D:689:ILE:N	2.09	0.68
1:G:657:ALA:N	1:G:660:ILE:CD1	2.56	0.68
1:E:542:VAL:HG11	1:G:598:LEU:CD1	2.24	0.68
1:D:542:VAL:HG11	1:B:598:LEU:CG	2.23	0.68
1:E:405:GLU:CB	1:E:407:PRO:HD3	2.24	0.68
1:D:572:MET:CG	1:B:673:LEU:HD11	2.24	0.68
1:D:562:MET:SD	1:D:562:MET:N	2.67	0.68
1:G:444:TYR:CZ	1:G:484:GLY:C	2.67	0.68
1:G:434:PHE:CE2	1:G:555:TYR:O	2.46	0.68
1:E:413:LEU:C	1:E:413:LEU:HD13	2.14	0.68
1:B:699:LEU:C	1:B:699:LEU:HD12	2.14	0.68
1:B:561:GLN:O	1:B:565:TYR:CD2	2.46	0.68
1:D:678:LEU:HD11	1:D:682:MET:HE2	1.75	0.68
1:G:426:TRP:HZ3	1:G:701:ARG:NH1	1.87	0.68
1:D:511:TYR:HE1	1:D:570:GLU:HG3	1.46	0.68
1:B:580:PHE:CZ	1:B:674:LEU:HB3	2.28	0.68
1:B:384:LEU:HD22	1:B:384:LEU:O	1.94	0.68
1:E:384:LEU:C	1:E:384:LEU:HD22	2.14	0.68
2:H:5:UNK:O	2:H:6:UNK:CB	2.41	0.68
1:D:673:LEU:HD11	1:G:572:MET:CG	2.24	0.68
1:E:657:ALA:N	1:E:660:ILE:CD1	2.56	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:375:GLY:H	1:E:210:GLU:HG2	0.59	0.68
1:E:580:PHE:CZ	1:E:674:LEU:HB3	2.28	0.68
1:G:640:PHE:HE1	1:G:647:LEU:HD11	1.59	0.68
1:B:413:LEU:C	1:B:413:LEU:HD13	2.14	0.68
1:D:561:GLN:O	1:D:565:TYR:CD2	2.46	0.68
1:G:426:TRP:NE1	1:G:431:LYS:N	2.42	0.68
1:D:374:TYR:O	1:D:377:VAL:N	2.26	0.68
1:B:374:TYR:O	1:B:377:VAL:N	2.26	0.68
1:B:356:GLU:CA	1:B:366:SER:OG	2.42	0.68
1:B:367:ARG:O	1:B:383:ASP:HB2	1.94	0.68
1:D:405:GLU:CB	1:D:407:PRO:HD3	2.24	0.68
1:D:310:ASN:HB2	1:D:351:TYR:OH	1.93	0.68
1:D:602:GLY:O	1:D:603:LYS:HB3	1.94	0.68
1:B:562:MET:SD	1:B:562:MET:N	2.67	0.68
1:D:657:ALA:HA	1:D:660:ILE:HD11	0.71	0.68
1:E:374:TYR:O	1:E:377:VAL:N	2.26	0.68
1:D:591:PHE:CE2	1:D:666:TYR:CD1	2.80	0.68
1:E:367:ARG:O	1:E:383:ASP:HB2	1.95	0.68
1:E:367:ARG:HH12	1:E:385:SER:H	0.79	0.68
1:D:384:LEU:O	1:D:384:LEU:HD13	1.94	0.68
1:G:384:LEU:O	1:G:384:LEU:HD13	1.94	0.68
1:D:640:PHE:HE1	1:D:647:LEU:HD11	1.59	0.68
1:D:699:LEU:C	1:D:699:LEU:HD12	2.14	0.68
1:E:426:TRP:CD1	1:E:430:VAL:CA	2.78	0.67
1:D:444:TYR:CZ	1:D:484:GLY:C	2.67	0.67
1:E:356:GLU:CA	1:E:366:SER:OG	2.42	0.67
1:G:350:ALA:CB	1:G:414:LEU:HD11	2.22	0.67
1:G:310:ASN:HB2	1:G:351:TYR:OH	1.93	0.67
1:D:683:GLY:O	1:D:687:ASN:ND2	2.28	0.67
1:E:426:TRP:NE1	1:E:431:LYS:N	2.42	0.67
1:G:678:LEU:HD11	1:G:682:MET:HE2	1.75	0.67
1:D:210:GLU:CG	1:G:374:TYR:HA	2.24	0.67
1:D:242:ARG:O	1:G:756:UNK:N	2.26	0.67
1:D:384:LEU:C	1:D:384:LEU:HD22	2.14	0.67
1:E:644:MET:SD	1:G:647:LEU:CD2	2.78	0.67
1:B:280:ARG:HG2	1:B:284:GLY:O	1.95	0.67
1:G:577:LEU:C	1:G:577:LEU:HD13	2.15	0.67
1:B:560:GLN:CD	1:B:560:GLN:H	1.95	0.67
1:E:441:TYR:HE1	1:E:552:MET:CB	2.08	0.67
1:E:310:ASN:HB2	1:E:351:TYR:OH	1.93	0.67
1:G:302:THR:O	1:G:306:THR:HB	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:280:ARG:HG2	1:G:284:GLY:O	1.95	0.67
1:D:441:TYR:HE1	1:D:552:MET:CB	2.08	0.67
1:G:569:ILE:O	1:G:573:ILE:HG13	1.94	0.67
1:B:357:ILE:H	1:B:366:SER:HG	1.37	0.67
1:D:354:GLN:HG3	1:D:382:TYR:HE1	1.56	0.67
1:D:384:LEU:O	1:D:384:LEU:HD22	1.94	0.67
1:E:756:UNK:N	1:G:242:ARG:O	2.21	0.67
1:B:426:TRP:NE1	1:B:431:LYS:N	2.42	0.67
1:B:441:TYR:HE1	1:B:552:MET:CB	2.08	0.67
1:D:673:LEU:HD12	1:G:572:MET:HG3	1.75	0.67
1:G:678:LEU:HD12	1:G:678:LEU:C	2.14	0.67
1:E:656:LYS:O	1:E:660:ILE:HD12	1.89	0.67
1:D:374:TYR:HA	1:B:210:GLU:CD	2.15	0.67
1:B:198:TYR:HE1	1:B:242:ARG:HD2	1.55	0.67
1:G:367:ARG:O	1:G:383:ASP:HB2	1.95	0.67
1:G:384:LEU:C	1:G:384:LEU:HD22	2.14	0.67
1:D:588:LEU:C	1:D:588:LEU:HD12	2.15	0.67
1:E:678:LEU:C	1:E:678:LEU:HD12	2.14	0.67
1:G:669:LEU:C	1:G:669:LEU:HD12	2.15	0.67
1:G:688:LYS:HG3	1:G:689:ILE:N	2.09	0.67
1:E:384:LEU:O	1:E:384:LEU:HD22	1.94	0.67
1:E:688:LYS:HG3	1:E:689:ILE:N	2.09	0.67
1:G:562:MET:SD	1:G:562:MET:N	2.67	0.67
1:E:569:ILE:O	1:E:573:ILE:HG13	1.94	0.67
1:B:569:ILE:O	1:B:573:ILE:HG13	1.94	0.67
1:D:569:ILE:O	1:D:573:ILE:HG13	1.94	0.67
1:B:384:LEU:HD22	1:B:384:LEU:C	2.14	0.67
1:E:302:THR:O	1:E:306:THR:HB	1.94	0.67
1:E:588:LEU:HD12	1:E:588:LEU:C	2.15	0.67
1:B:668:ILE:C	1:B:668:ILE:HD12	2.16	0.67
1:B:669:LEU:C	1:B:669:LEU:HD12	2.15	0.67
1:D:426:TRP:NE1	1:D:431:LYS:N	2.42	0.67
1:D:669:LEU:HD12	1:D:669:LEU:C	2.15	0.67
1:E:562:MET:SD	1:E:562:MET:N	2.67	0.67
1:D:668:ILE:CG2	1:G:638:PHE:HZ	2.01	0.67
1:B:656:LYS:O	1:B:660:ILE:HD12	1.89	0.67
1:D:511:TYR:CZ	1:D:515:LEU:HD11	2.29	0.67
1:B:405:GLU:CB	1:B:407:PRO:HD3	2.24	0.67
1:E:683:GLY:O	1:E:687:ASN:ND2	2.28	0.67
1:D:718:LYS:O	1:D:719:ALA:HB2	1.95	0.67
1:G:511:TYR:HE1	1:G:570:GLU:HG3	1.46	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:375:GLY:HA2	1:E:210:GLU:HA	1.76	0.67
1:E:591:PHE:CE2	1:E:666:TYR:CD1	2.80	0.67
1:B:384:LEU:HD13	1:B:384:LEU:O	1.94	0.67
1:D:384:LEU:HD21	1:D:387:ILE:N	2.08	0.67
1:G:384:LEU:O	1:G:384:LEU:HD22	1.94	0.67
1:B:453:TYR:HA	1:E:597:THR:HG22	1.77	0.67
1:E:718:LYS:O	1:E:719:ALA:HB2	1.95	0.67
1:B:421:LEU:CD2	1:B:425:LYS:HG3	2.25	0.67
1:B:426:TRP:CD1	1:B:430:VAL:CA	2.78	0.67
1:D:668:ILE:HD12	1:D:668:ILE:C	2.15	0.67
1:B:511:TYR:CZ	1:B:515:LEU:HD11	2.29	0.67
1:G:511:TYR:CZ	1:G:515:LEU:HD11	2.29	0.67
1:D:356:GLU:CA	1:D:366:SER:OG	2.42	0.67
1:G:413:LEU:HD13	1:G:413:LEU:C	2.14	0.67
1:G:602:GLY:O	1:G:603:LYS:HB3	1.94	0.67
1:B:588:LEU:C	1:B:588:LEU:HD12	2.15	0.66
1:D:421:LEU:CD2	1:D:425:LYS:HG3	2.25	0.66
1:D:426:TRP:CD1	1:D:430:VAL:CA	2.78	0.66
1:E:668:ILE:HD12	1:E:668:ILE:C	2.16	0.66
1:B:416:GLU:O	1:B:420:ARG:N	2.22	0.66
1:D:370:THR:CB	1:D:380:SER:HA	2.26	0.66
1:B:688:LYS:HG3	1:B:689:ILE:N	2.09	0.66
1:G:421:LEU:CD2	1:G:425:LYS:HG3	2.25	0.66
1:G:697:TRP:CH2	1:G:701:ARG:NE	2.63	0.66
1:D:413:LEU:C	1:D:413:LEU:HD13	2.14	0.66
1:E:280:ARG:HG2	1:E:284:GLY:O	1.95	0.66
1:B:577:LEU:HD13	1:B:577:LEU:C	2.15	0.66
1:E:602:GLY:O	1:E:603:LYS:HB3	1.94	0.66
1:G:514:ILE:HD13	1:G:514:ILE:C	2.16	0.66
1:B:374:TYR:HA	1:E:210:GLU:CD	2.16	0.66
1:D:600:GLU:HG2	1:D:628:ASN:CG	2.16	0.66
1:D:367:ARG:O	1:D:383:ASP:HB2	1.95	0.66
1:B:640:PHE:HE1	1:B:647:LEU:HD11	1.59	0.66
1:E:687:ASN:HD22	1:E:687:ASN:N	1.93	0.66
1:E:426:TRP:HZ3	1:E:701:ARG:NH1	1.87	0.66
1:D:235:PHE:HE1	1:G:374:TYR:CB	2.08	0.66
1:G:656:LYS:O	1:G:660:ILE:HD12	1.89	0.66
1:E:384:LEU:O	1:E:384:LEU:HD13	1.94	0.66
1:B:370:THR:CB	1:B:380:SER:HA	2.26	0.66
1:G:687:ASN:HD22	1:G:687:ASN:N	1.93	0.66
1:B:678:LEU:C	1:B:678:LEU:HD12	2.14	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:692:GLU:HB3	1:B:696:ILE:HG23	1.78	0.66
1:D:697:TRP:CH2	1:D:701:ARG:NE	2.63	0.66
1:E:692:GLU:HB3	1:E:696:ILE:HG23	1.78	0.66
1:E:640:PHE:HE1	1:E:647:LEU:HD11	1.59	0.66
1:D:280:ARG:HG2	1:D:284:GLY:O	1.95	0.66
1:G:142:ARG:HD3	1:G:183:THR:HG21	1.78	0.66
1:E:669:LEU:C	1:E:669:LEU:HD12	2.15	0.66
1:E:375:GLY:HA2	1:G:210:GLU:HA	1.78	0.66
1:B:600:GLU:HG2	1:B:628:ASN:CG	2.16	0.66
1:G:683:GLY:O	1:G:687:ASN:ND2	2.28	0.66
1:B:602:GLY:O	1:B:603:LYS:HB3	1.94	0.66
1:B:367:ARG:HH12	1:B:385:SER:H	0.79	0.66
1:E:453:TYR:CD1	1:G:596:VAL:CG1	2.78	0.66
1:G:370:THR:CB	1:G:380:SER:HA	2.26	0.66
1:E:577:LEU:HD13	1:E:577:LEU:C	2.15	0.66
1:D:678:LEU:HD12	1:D:678:LEU:C	2.14	0.66
1:G:441:TYR:HE1	1:G:552:MET:CB	2.08	0.66
1:G:588:LEU:C	1:G:588:LEU:HD12	2.15	0.66
1:G:668:ILE:HD12	1:G:668:ILE:C	2.16	0.66
1:E:370:THR:CB	1:E:380:SER:HA	2.26	0.66
1:D:426:TRP:CA	1:D:430:VAL:CG2	2.71	0.66
1:E:511:TYR:CZ	1:E:515:LEU:HD11	2.29	0.66
1:G:356:GLU:CA	1:G:366:SER:OG	2.42	0.66
1:E:453:TYR:HE2	1:E:454:TYR:CZ	2.14	0.66
1:G:468:THR:O	1:G:472:TYR:HB2	1.96	0.66
1:D:577:LEU:C	1:D:577:LEU:HD13	2.15	0.66
1:B:683:GLY:O	1:B:687:ASN:ND2	2.28	0.66
1:D:560:GLN:N	1:D:560:GLN:OE1	2.17	0.66
1:E:564:ILE:CD1	1:E:693:SER:OG	2.44	0.66
1:D:235:PHE:HB2	1:G:372:TRP:HZ3	1.60	0.66
1:E:514:ILE:HD13	1:E:514:ILE:C	2.16	0.66
1:B:239:THR:HB	1:B:243:PRO:HB3	1.77	0.66
1:E:421:LEU:CD2	1:E:425:LYS:HG3	2.25	0.65
1:G:453:TYR:HE2	1:G:454:TYR:CZ	2.14	0.65
1:B:718:LYS:O	1:B:719:ALA:HB2	1.95	0.65
1:D:692:GLU:HB3	1:D:696:ILE:HG23	1.78	0.65
1:E:374:TYR:HA	1:G:210:GLU:CD	2.17	0.65
1:D:499:ARG:NH1	1:D:499:ARG:HG2	2.11	0.65
1:G:638:PHE:O	1:G:641:THR:HG23	1.96	0.65
1:G:564:ILE:CD1	1:G:693:SER:OG	2.44	0.65
1:D:687:ASN:HD22	1:D:687:ASN:N	1.93	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:718:LYS:O	1:G:719:ALA:HB2	1.95	0.65
1:B:564:ILE:CD1	1:B:693:SER:OG	2.44	0.65
1:D:564:ILE:CD1	1:D:693:SER:OG	2.44	0.65
1:B:514:ILE:HD13	1:B:514:ILE:C	2.16	0.65
1:B:468:THR:O	1:B:472:TYR:HB2	1.96	0.65
1:B:638:PHE:O	1:B:641:THR:HG23	1.96	0.65
1:G:560:GLN:H	1:G:560:GLN:CD	1.95	0.65
1:D:514:ILE:C	1:D:514:ILE:HD13	2.16	0.65
1:B:453:TYR:HE2	1:B:454:TYR:CZ	2.14	0.65
1:E:468:THR:O	1:E:472:TYR:CB	2.45	0.65
1:E:142:ARG:HD3	1:E:183:THR:HG21	1.78	0.65
1:E:426:TRP:CA	1:E:430:VAL:CG2	2.71	0.65
1:E:560:GLN:H	1:E:560:GLN:CD	1.95	0.65
1:D:239:THR:CB	1:D:243:PRO:CB	2.75	0.65
1:E:631:TYR:CD2	2:H:24:UNK:N	2.61	0.65
1:G:603:LYS:HD3	1:G:636:GLU:HG3	1.77	0.65
1:E:468:THR:O	1:E:472:TYR:HB2	1.96	0.65
1:D:638:PHE:O	1:D:641:THR:HG23	1.96	0.65
1:D:239:THR:HB	1:D:243:PRO:HB3	1.77	0.65
1:B:631:TYR:CD2	2:F:23:UNK:C	2.79	0.65
1:G:434:PHE:CE1	1:G:555:TYR:HD1	2.14	0.65
1:D:453:TYR:HE2	1:D:454:TYR:CZ	2.14	0.65
1:G:468:THR:O	1:G:472:TYR:CB	2.45	0.65
1:B:687:ASN:N	1:B:687:ASN:HD22	1.92	0.65
1:E:158:LEU:HD21	1:E:162:MET:CE	2.27	0.65
1:D:210:GLU:HA	1:G:375:GLY:HA2	1.78	0.65
1:D:235:PHE:CE1	1:G:374:TYR:CB	2.79	0.65
1:D:210:GLU:CD	1:G:374:TYR:HA	2.17	0.65
1:E:499:ARG:HG2	1:E:499:ARG:NH1	2.11	0.65
1:D:142:ARG:HD3	1:D:183:THR:HG21	1.78	0.65
1:G:692:GLU:HB3	1:G:696:ILE:HG23	1.78	0.65
2:F:9:UNK:CB	2:F:21:UNK:SG	2.85	0.65
1:D:374:TYR:CA	1:B:210:GLU:HG2	2.25	0.65
1:B:158:LEU:HD21	1:B:162:MET:CE	2.27	0.65
1:E:421:LEU:HD21	1:E:425:LYS:HZ1	1.62	0.65
1:G:426:TRP:CD1	1:G:430:VAL:CA	2.78	0.65
1:E:372:TRP:HZ3	1:G:235:PHE:HB2	1.61	0.65
1:E:239:THR:CB	1:E:243:PRO:CB	2.75	0.65
1:E:434:PHE:CE1	1:E:555:TYR:HD1	2.14	0.65
1:D:198:TYR:HE1	1:D:242:ARG:HD2	1.55	0.64
1:G:374:TYR:O	1:G:377:VAL:N	2.26	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:434:PHE:CE1	1:D:555:TYR:HD1	2.14	0.64
1:D:468:THR:O	1:D:472:TYR:CB	2.45	0.64
1:E:638:PHE:O	1:E:641:THR:HG23	1.96	0.64
2:A:9:UNK:CB	2:A:21:UNK:SG	2.85	0.64
2:C:9:UNK:CB	2:C:21:UNK:SG	2.85	0.64
1:G:498:GLN:HA	1:G:498:GLN:NE2	2.09	0.64
1:G:426:TRP:CA	1:G:430:VAL:CG2	2.71	0.64
1:E:572:MET:CG	1:G:673:LEU:HD12	2.25	0.64
1:B:631:TYR:CD2	2:F:24:UNK:N	2.64	0.64
1:G:521:LEU:HD11	1:G:522:PHE:CD2	2.30	0.64
1:G:592:SER:O	1:G:596:VAL:HG23	1.98	0.64
1:B:468:THR:O	1:B:472:TYR:CB	2.45	0.64
2:H:9:UNK:CB	2:H:21:UNK:SG	2.85	0.64
1:B:242:ARG:N	1:B:243:PRO:HA	1.98	0.64
1:D:596:VAL:CG1	1:G:453:TYR:CD1	2.79	0.64
1:B:592:SER:O	1:B:596:VAL:HG23	1.98	0.64
1:E:580:PHE:HZ	1:E:674:LEU:CD1	2.01	0.64
1:E:600:GLU:HG2	1:E:628:ASN:CG	2.16	0.64
1:D:415:VAL:CB	1:D:416:GLU:HA	2.27	0.64
1:E:239:THR:HB	1:E:243:PRO:HB3	1.77	0.64
1:E:498:GLN:HA	1:E:498:GLN:NE2	2.09	0.64
1:E:453:TYR:CA	1:G:597:THR:HG22	2.28	0.64
1:B:421:LEU:HD21	1:B:425:LYS:CE	2.28	0.64
1:B:638:PHE:O	1:B:641:THR:CG2	2.46	0.64
1:D:598:LEU:CG	1:G:542:VAL:HG11	2.26	0.64
1:E:592:SER:O	1:E:596:VAL:HG23	1.97	0.64
1:D:468:THR:O	1:D:472:TYR:HB2	1.96	0.64
1:E:580:PHE:HZ	1:E:674:LEU:HD13	1.50	0.64
1:E:359:GLU:CG	1:E:360:PRO:CD	2.74	0.64
1:E:421:LEU:HD21	1:E:425:LYS:CE	2.28	0.64
1:E:511:TYR:C	1:E:514:ILE:HG22	2.18	0.64
1:B:511:TYR:C	1:B:514:ILE:HG22	2.19	0.64
1:B:374:TYR:CA	1:E:210:GLU:HG2	2.27	0.64
1:B:415:VAL:CB	1:B:416:GLU:HA	2.27	0.64
1:G:415:VAL:CB	1:G:416:GLU:HA	2.27	0.64
1:D:453:TYR:CA	1:B:597:THR:HG22	2.27	0.64
1:B:142:ARG:HD3	1:B:183:THR:HG21	1.78	0.64
1:E:415:VAL:CB	1:E:416:GLU:HA	2.27	0.64
1:D:158:LEU:HD21	1:D:162:MET:CE	2.27	0.64
1:B:426:TRP:CA	1:B:430:VAL:CG2	2.71	0.64
1:B:434:PHE:CE1	1:B:555:TYR:HD1	2.14	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:426:TRP:CH2	1:E:701:ARG:NH1	2.66	0.64
1:G:239:THR:CB	1:G:243:PRO:CB	2.75	0.64
1:D:592:SER:O	1:D:596:VAL:HG23	1.97	0.64
1:D:421:LEU:HD21	1:D:425:LYS:CE	2.28	0.63
1:G:426:TRP:CH2	1:G:701:ARG:NH1	2.66	0.63
1:E:572:MET:HE1	1:E:685:THR:OG1	1.98	0.63
1:G:638:PHE:O	1:G:641:THR:CG2	2.46	0.63
1:B:498:GLN:NE2	1:B:498:GLN:HA	2.09	0.63
1:E:306:THR:O	1:E:351:TYR:CZ	2.52	0.63
1:E:310:ASN:HB2	1:E:351:TYR:HH	1.64	0.63
1:G:306:THR:O	1:G:351:TYR:CZ	2.52	0.63
1:G:158:LEU:HD21	1:G:162:MET:CE	2.27	0.63
1:D:591:PHE:CG	1:D:666:TYR:CE1	2.86	0.63
1:G:600:GLU:HG2	1:G:628:ASN:CG	2.16	0.63
1:G:499:ARG:NH1	1:G:499:ARG:HG2	2.11	0.63
1:D:638:PHE:O	1:D:641:THR:CG2	2.46	0.63
1:D:692:GLU:C	1:D:696:ILE:HG13	2.19	0.63
1:B:591:PHE:CG	1:B:666:TYR:CE1	2.86	0.63
1:D:597:THR:HB	1:G:452:ALA:O	1.97	0.63
1:B:142:ARG:CD	1:B:183:THR:HG21	2.29	0.63
1:B:638:PHE:CZ	1:E:668:ILE:HG22	2.33	0.63
1:G:692:GLU:C	1:G:696:ILE:HG13	2.19	0.63
1:E:444:TYR:CZ	1:E:484:GLY:C	2.67	0.63
1:E:444:TYR:CE1	1:E:484:GLY:C	2.72	0.63
1:D:444:TYR:CE1	1:D:484:GLY:C	2.72	0.63
1:G:239:THR:HB	1:G:243:PRO:HB3	1.77	0.63
1:E:453:TYR:HA	1:G:597:THR:HG22	1.78	0.63
1:G:310:ASN:HB2	1:G:351:TYR:HH	1.62	0.63
1:B:444:TYR:CZ	1:B:484:GLY:C	2.67	0.63
1:G:511:TYR:C	1:G:514:ILE:HG22	2.19	0.63
1:G:346:ILE:HD13	1:G:410:HIS:CB	2.29	0.63
1:B:678:LEU:HD11	1:B:682:MET:HE3	1.81	0.63
1:D:239:THR:OG1	1:D:241:GLY:CA	2.47	0.63
1:B:444:TYR:CE1	1:B:484:GLY:C	2.72	0.63
1:D:511:TYR:C	1:D:514:ILE:HG22	2.19	0.63
1:B:521:LEU:HD11	1:B:522:PHE:CD2	2.30	0.63
1:G:359:GLU:CG	1:G:360:PRO:CD	2.74	0.63
1:D:639:LYS:HE3	1:B:647:LEU:HB3	1.80	0.63
1:D:538:VAL:CG1	1:D:539:ALA:N	2.62	0.63
1:E:142:ARG:CD	1:E:183:THR:HG21	2.29	0.63
1:D:253:SER:HA	1:D:287:VAL:HG13	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:692:GLU:C	1:B:696:ILE:HG13	2.19	0.63
1:E:374:TYR:CA	1:G:210:GLU:HG2	2.28	0.63
1:B:306:THR:O	1:B:351:TYR:CZ	2.52	0.63
1:D:346:ILE:HD13	1:D:410:HIS:CB	2.29	0.63
1:E:638:PHE:O	1:E:641:THR:CG2	2.46	0.63
1:G:421:LEU:HD21	1:G:425:LYS:CE	2.28	0.63
1:G:444:TYR:CE1	1:G:484:GLY:C	2.72	0.63
1:D:374:TYR:HA	1:B:210:GLU:CG	2.28	0.63
1:D:639:LYS:CE	1:B:647:LEU:HB3	2.29	0.63
1:E:239:THR:HB	1:E:243:PRO:CB	2.29	0.63
1:B:603:LYS:HD3	1:B:636:GLU:HG3	1.81	0.63
1:E:188:GLN:HE21	1:E:188:GLN:H	1.46	0.63
1:B:239:THR:HB	1:B:243:PRO:CB	2.29	0.62
1:B:158:LEU:O	1:B:158:LEU:HD22	1.99	0.62
1:B:253:SER:HA	1:B:287:VAL:HG13	1.81	0.62
1:G:538:VAL:CG1	1:G:539:ALA:N	2.62	0.62
1:B:413:LEU:O	1:B:413:LEU:HD13	1.99	0.62
1:G:142:ARG:CD	1:G:183:THR:HG21	2.29	0.62
1:G:158:LEU:O	1:G:158:LEU:HD22	1.99	0.62
1:B:188:GLN:HE21	1:B:188:GLN:H	1.46	0.62
1:B:426:TRP:CH2	1:B:701:ARG:NH1	2.66	0.62
1:B:239:THR:CB	1:B:243:PRO:CB	2.75	0.62
1:D:603:LYS:HD3	1:D:636:GLU:HG3	1.81	0.62
1:E:638:PHE:HE1	1:G:668:ILE:CG2	2.08	0.62
1:D:239:THR:HB	1:D:243:PRO:CB	2.29	0.62
1:E:591:PHE:CG	1:E:666:TYR:CE1	2.86	0.62
1:D:359:GLU:CG	1:D:360:PRO:CD	2.74	0.62
1:B:639:LYS:CE	1:E:647:LEU:HB3	2.29	0.62
1:E:198:TYR:CE1	1:E:242:ARG:CD	2.81	0.62
1:D:158:LEU:HD22	1:D:158:LEU:O	1.99	0.62
1:E:697:TRP:CH2	1:E:701:ARG:NE	2.63	0.62
1:G:239:THR:HB	1:G:243:PRO:CB	2.29	0.62
1:D:306:THR:O	1:D:351:TYR:CZ	2.52	0.62
1:E:413:LEU:O	1:E:413:LEU:HD13	1.99	0.62
1:E:603:LYS:HD3	1:E:636:GLU:HG3	1.82	0.62
1:B:426:TRP:HZ3	1:B:701:ARG:NH1	1.87	0.62
1:D:631:TYR:CD2	2:C:23:UNK:C	2.82	0.62
1:B:372:TRP:HZ3	1:E:235:PHE:HB2	1.65	0.62
1:B:374:TYR:HA	1:E:210:GLU:CG	2.30	0.62
1:B:359:GLU:CG	1:B:360:PRO:CD	2.74	0.62
1:D:699:LEU:HD12	1:D:700:GLN:N	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:421:LEU:HD21	1:B:425:LYS:HZ1	1.64	0.62
1:E:692:GLU:C	1:E:696:ILE:HG13	2.19	0.62
1:E:538:VAL:CG1	1:E:539:ALA:N	2.62	0.62
1:D:142:ARG:CD	1:D:183:THR:HG21	2.29	0.62
1:E:514:ILE:O	1:E:518:VAL:HG23	2.00	0.62
1:B:538:VAL:CG1	1:B:539:ALA:N	2.62	0.62
1:D:413:LEU:O	1:D:413:LEU:HD13	1.99	0.62
1:E:158:LEU:O	1:E:158:LEU:HD22	1.99	0.62
1:E:346:ILE:HD13	1:E:410:HIS:CB	2.29	0.62
1:G:580:PHE:CE2	1:G:674:LEU:HB3	2.35	0.62
1:E:366:SER:HB3	1:E:369:PHE:HE1	1.65	0.62
1:E:239:THR:OG1	1:E:241:GLY:CA	2.47	0.62
1:B:453:TYR:CA	1:E:597:THR:HG22	2.29	0.62
1:G:514:ILE:O	1:G:518:VAL:HG23	2.00	0.62
1:D:591:PHE:CD1	1:D:666:TYR:HD1	2.18	0.62
1:E:699:LEU:HD12	1:E:700:GLN:N	2.14	0.62
1:D:320:HIS:HB3	1:D:323:LEU:HD23	1.82	0.62
1:B:511:TYR:HE1	1:B:570:GLU:HG3	1.46	0.61
1:B:366:SER:HB3	1:B:369:PHE:HE1	1.65	0.61
1:G:383:ASP:HB3	1:G:384:LEU:HA	1.82	0.61
1:B:639:LYS:HE3	1:E:647:LEU:HB3	1.81	0.61
1:B:699:LEU:HD12	1:B:700:GLN:N	2.14	0.61
1:B:542:VAL:HG11	1:E:598:LEU:CD1	2.30	0.61
1:D:383:ASP:HB3	1:D:384:LEU:HA	1.82	0.61
1:G:253:SER:HA	1:G:287:VAL:HG13	1.81	0.61
2:F:18:UNK:O	2:F:30:UNK:CB	2.49	0.61
1:G:426:TRP:HA	1:G:430:VAL:CB	2.30	0.61
1:D:656:LYS:O	1:D:660:ILE:HD12	1.89	0.61
1:G:591:PHE:CG	1:G:666:TYR:CE1	2.86	0.61
1:G:413:LEU:HD13	1:G:413:LEU:O	1.99	0.61
1:E:253:SER:HA	1:E:287:VAL:HG13	1.81	0.61
1:D:426:TRP:CH2	1:D:701:ARG:NH1	2.66	0.61
1:E:374:TYR:HA	1:G:210:GLU:CG	2.31	0.61
1:B:580:PHE:CE2	1:B:674:LEU:HB3	2.35	0.61
1:D:188:GLN:HE21	1:D:188:GLN:H	1.46	0.61
1:G:320:HIS:HB3	1:G:323:LEU:HD23	1.82	0.61
1:D:426:TRP:HA	1:D:430:VAL:CB	2.30	0.61
1:B:448:PHE:CE2	1:B:544:SER:OG	2.54	0.61
1:B:499:ARG:HG2	1:B:499:ARG:NH1	2.11	0.61
1:G:699:LEU:HD12	1:G:700:GLN:N	2.14	0.61
1:B:346:ILE:HD13	1:B:410:HIS:CB	2.29	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:18:UNK:O	2:A:30:UNK:CB	2.49	0.61
1:G:188:GLN:HE21	1:G:188:GLN:H	1.46	0.61
1:G:560:GLN:N	1:G:697:TRP:NE1	2.49	0.61
1:B:579:ARG:HH21	1:B:579:ARG:CG	2.14	0.61
1:D:579:ARG:CG	1:D:579:ARG:HH21	2.14	0.61
1:D:366:SER:HB3	1:D:369:PHE:HE1	1.65	0.61
1:G:242:ARG:HB3	1:G:243:PRO:O	2.01	0.61
2:H:18:UNK:O	2:H:30:UNK:CB	2.49	0.61
1:E:426:TRP:HA	1:E:430:VAL:CB	2.30	0.61
1:D:198:TYR:CE1	1:D:242:ARG:CD	2.81	0.61
1:B:514:ILE:O	1:B:518:VAL:HG23	2.00	0.61
1:E:242:ARG:HB3	1:E:243:PRO:O	2.01	0.61
1:B:142:ARG:NE	1:B:183:THR:CG2	2.64	0.61
1:B:426:TRP:HA	1:B:430:VAL:CB	2.30	0.61
1:B:697:TRP:CH2	1:B:701:ARG:NE	2.63	0.61
1:D:240:LYS:HB3	1:D:240:LYS:HZ2	1.65	0.61
1:D:372:TRP:HZ3	1:B:235:PHE:HB2	1.65	0.61
1:D:521:LEU:HD11	1:D:522:PHE:CD2	2.30	0.61
1:E:383:ASP:HB3	1:E:384:LEU:HA	1.82	0.61
1:G:239:THR:OG1	1:G:241:GLY:CA	2.47	0.61
1:E:519:GLN:HB2	1:E:547:MET:CG	2.25	0.61
1:E:320:HIS:HB3	1:E:323:LEU:HD23	1.82	0.61
1:E:579:ARG:CG	1:E:579:ARG:HH21	2.14	0.61
1:D:575:ARG:C	1:D:579:ARG:HD3	2.19	0.61
1:E:580:PHE:CE2	1:E:674:LEU:HB3	2.35	0.61
1:E:367:ARG:HH11	1:E:367:ARG:CG	2.14	0.61
1:B:560:GLN:N	1:B:697:TRP:NE1	2.49	0.60
1:E:572:MET:SD	1:G:673:LEU:CD1	2.89	0.60
1:G:448:PHE:HD1	1:G:448:PHE:O	1.84	0.60
1:G:142:ARG:NE	1:G:183:THR:CG2	2.64	0.60
1:B:320:HIS:HB3	1:B:323:LEU:HD23	1.82	0.60
2:C:18:UNK:O	2:C:30:UNK:CB	2.49	0.60
1:B:441:TYR:HE1	1:B:552:MET:HB2	1.65	0.60
1:E:441:TYR:HE1	1:E:552:MET:HB2	1.66	0.60
1:D:514:ILE:O	1:D:518:VAL:HG23	2.00	0.60
1:G:366:SER:HB3	1:G:369:PHE:HE1	1.65	0.60
1:D:598:LEU:CD1	1:G:542:VAL:HG11	2.31	0.60
1:D:448:PHE:CE2	1:D:544:SER:OG	2.54	0.60
1:E:678:LEU:CD1	1:E:682:MET:HE2	2.30	0.60
1:B:367:ARG:CG	1:B:367:ARG:HH11	2.14	0.60
1:E:452:ALA:O	1:G:597:THR:HB	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:638:PHE:CZ	1:B:668:ILE:HG22	2.35	0.60
1:D:580:PHE:CE2	1:D:674:LEU:HB3	2.35	0.60
1:B:383:ASP:HB3	1:B:384:LEU:HA	1.82	0.60
1:D:367:ARG:CG	1:D:367:ARG:HH11	2.14	0.60
1:D:448:PHE:O	1:D:448:PHE:HD1	1.84	0.60
1:G:158:LEU:HD21	1:G:162:MET:HE2	1.82	0.60
1:B:198:TYR:CE1	1:B:242:ARG:CD	2.81	0.60
1:G:367:ARG:CG	1:G:367:ARG:HH11	2.14	0.60
1:B:585:LEU:HD12	1:B:585:LEU:O	2.02	0.60
1:B:572:MET:CG	1:E:673:LEU:HD12	2.29	0.60
1:D:560:GLN:N	1:D:697:TRP:NE1	2.49	0.60
1:B:453:TYR:CD1	1:E:596:VAL:CG1	2.84	0.60
1:B:572:MET:SD	1:E:673:LEU:CD1	2.89	0.60
1:E:560:GLN:N	1:E:697:TRP:NE1	2.49	0.60
1:D:656:LYS:O	1:D:660:ILE:N	2.28	0.60
1:B:448:PHE:O	1:B:448:PHE:HD1	1.84	0.60
1:D:426:TRP:NE1	1:D:430:VAL:C	2.55	0.60
1:D:441:TYR:HE1	1:D:552:MET:HB2	1.65	0.60
1:E:425:LYS:C	1:E:430:VAL:CG2	2.70	0.60
1:D:542:VAL:HG11	1:B:598:LEU:CD1	2.32	0.60
1:E:142:ARG:NE	1:E:183:THR:CG2	2.64	0.60
1:D:142:ARG:NE	1:D:183:THR:CG2	2.64	0.60
1:D:461:PRO:CB	1:D:530:TYR:CD1	2.85	0.60
1:E:448:PHE:O	1:E:448:PHE:HD1	1.84	0.60
1:G:198:TYR:CE1	1:G:242:ARG:CD	2.81	0.60
1:D:585:LEU:O	1:D:585:LEU:HD12	2.02	0.60
1:E:585:LEU:HD12	1:E:585:LEU:O	2.02	0.60
1:G:585:LEU:O	1:G:585:LEU:HD12	2.02	0.60
1:G:579:ARG:CG	1:G:579:ARG:HH21	2.14	0.60
1:B:461:PRO:CB	1:B:530:TYR:CD1	2.85	0.60
1:B:239:THR:OG1	1:B:241:GLY:CA	2.47	0.59
1:E:638:PHE:CA	1:E:641:THR:HG22	2.32	0.59
1:G:426:TRP:NE1	1:G:430:VAL:C	2.55	0.59
1:G:631:TYR:CD2	2:A:23:UNK:C	2.85	0.59
1:D:511:TYR:O	1:D:514:ILE:HG23	2.02	0.59
1:G:441:TYR:HE1	1:G:552:MET:HB2	1.66	0.59
1:D:242:ARG:HB3	1:D:243:PRO:O	2.01	0.59
1:G:511:TYR:O	1:G:514:ILE:HG23	2.02	0.59
1:B:580:PHE:HZ	1:B:674:LEU:HD13	1.50	0.59
1:B:350:ALA:HB2	1:B:414:LEU:CD1	2.31	0.59
1:B:640:PHE:HE1	1:B:647:LEU:CD1	2.15	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:603:LYS:HD3	1:G:636:GLU:CG	2.33	0.59
1:E:125:ASN:ND2	1:E:128:GLU:HG2	2.18	0.59
1:E:677:MET:O	1:E:681:LEU:CG	2.49	0.59
1:B:575:ARG:C	1:B:579:ARG:HD3	2.19	0.59
1:B:125:ASN:ND2	1:B:128:GLU:HG2	2.18	0.59
1:B:426:TRP:NE1	1:B:430:VAL:C	2.55	0.59
1:G:461:PRO:CB	1:G:530:TYR:CD1	2.85	0.59
1:D:453:TYR:CD1	1:B:596:VAL:CG1	2.84	0.59
1:B:521:LEU:CD1	1:B:522:PHE:HD2	2.15	0.59
1:D:359:GLU:CB	1:D:360:PRO:HD2	2.33	0.59
1:E:359:GLU:CB	1:E:360:PRO:HD2	2.33	0.59
1:B:242:ARG:HB3	1:B:243:PRO:O	2.01	0.59
1:G:448:PHE:CE2	1:G:544:SER:OG	2.54	0.59
1:D:640:PHE:CE1	1:D:647:LEU:CD1	2.86	0.59
1:E:239:THR:OG1	1:E:243:PRO:CB	2.45	0.59
1:B:638:PHE:CA	1:B:641:THR:HG22	2.32	0.59
1:E:426:TRP:NE1	1:E:430:VAL:C	2.55	0.59
2:C:7:UNK:O	2:C:28:UNK:N	2.36	0.59
1:E:631:TYR:CE2	2:H:23:UNK:O	2.55	0.59
1:G:239:THR:OG1	1:G:243:PRO:CB	2.45	0.59
1:D:310:ASN:HB2	1:D:351:TYR:HH	1.67	0.59
1:D:242:ARG:CA	1:G:756:UNK:CB	2.52	0.59
1:G:575:ARG:NH1	1:G:575:ARG:HG3	2.18	0.59
1:E:461:PRO:CB	1:E:530:TYR:CD1	2.85	0.59
1:G:350:ALA:HB2	1:G:414:LEU:CD1	2.31	0.59
2:H:7:UNK:O	2:H:28:UNK:N	2.36	0.59
1:D:499:ARG:CG	1:D:499:ARG:HH11	2.14	0.59
2:F:7:UNK:O	2:F:28:UNK:N	2.36	0.59
1:E:521:LEU:HD11	1:E:522:PHE:CD2	2.30	0.59
1:B:640:PHE:CE1	1:B:647:LEU:CD1	2.86	0.59
1:D:246:TYR:CE1	1:D:248:GLY:CA	2.86	0.59
1:B:558:GLY:O	1:B:697:TRP:NE1	2.36	0.58
1:B:656:LYS:O	1:B:660:ILE:N	2.28	0.58
1:D:631:TYR:OH	1:B:661:ILE:HD11	2.03	0.58
1:D:521:LEU:CD1	1:D:522:PHE:HD2	2.15	0.58
1:E:640:PHE:CE1	1:E:647:LEU:CD1	2.86	0.58
1:E:640:PHE:HE1	1:E:647:LEU:CD1	2.15	0.58
1:G:558:GLY:O	1:G:697:TRP:NE1	2.36	0.58
1:E:635:LEU:HD12	1:G:648:GLU:HG2	1.86	0.58
1:D:198:TYR:HD2	1:G:372:TRP:CZ2	2.13	0.58
1:D:367:ARG:HH12	1:D:385:SER:H	0.79	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:640:PHE:HE1	1:D:647:LEU:CD1	2.15	0.58
1:D:558:GLY:O	1:D:697:TRP:NE1	2.36	0.58
1:D:521:LEU:C	1:D:521:LEU:HD13	2.17	0.58
1:G:640:PHE:CE1	1:G:647:LEU:CD1	2.86	0.58
1:D:125:ASN:ND2	1:D:128:GLU:HG2	2.18	0.58
1:D:572:MET:SD	1:B:673:LEU:CD1	2.91	0.58
1:B:677:MET:O	1:B:681:LEU:CG	2.49	0.58
1:E:558:GLY:O	1:E:697:TRP:NE1	2.36	0.58
1:G:575:ARG:C	1:G:579:ARG:HD3	2.19	0.58
1:E:350:ALA:HB2	1:E:414:LEU:CD1	2.31	0.58
1:G:640:PHE:HE1	1:G:647:LEU:CD1	2.15	0.58
1:D:452:ALA:O	1:B:597:THR:HB	2.03	0.58
1:D:158:LEU:HD21	1:D:162:MET:HE2	1.85	0.58
1:D:426:TRP:NE1	1:D:431:LYS:HA	2.19	0.58
1:D:375:GLY:N	1:B:210:GLU:CB	2.67	0.58
1:E:384:LEU:CD2	1:E:387:ILE:N	2.55	0.58
1:B:239:THR:OG1	1:B:243:PRO:CB	2.45	0.58
1:G:125:ASN:ND2	1:G:128:GLU:HG2	2.18	0.58
1:D:564:ILE:HG12	1:D:693:SER:OG	2.03	0.58
1:E:638:PHE:CZ	1:G:668:ILE:HG22	2.32	0.58
1:B:631:TYR:OH	1:E:661:ILE:HD11	2.04	0.58
1:E:426:TRP:CZ2	1:E:431:LYS:HA	2.39	0.58
1:E:572:MET:HG3	1:G:673:LEU:CD1	2.30	0.58
1:B:359:GLU:CB	1:B:360:PRO:HD2	2.33	0.58
1:G:359:GLU:CB	1:G:360:PRO:HD2	2.33	0.58
1:B:408:ASN:OD1	1:B:409:ARG:N	2.37	0.58
1:E:246:TYR:CE1	1:E:248:GLY:CA	2.86	0.58
1:E:426:TRP:NE1	1:E:431:LYS:HA	2.19	0.58
1:G:426:TRP:CZ2	1:G:431:LYS:HA	2.39	0.58
1:D:242:ARG:CG	1:D:242:ARG:HH11	2.17	0.58
1:D:350:ALA:HB2	1:D:414:LEU:CD1	2.31	0.58
1:E:448:PHE:CE2	1:E:544:SER:OG	2.54	0.58
1:G:242:ARG:HH11	1:G:242:ARG:CG	2.17	0.58
1:B:310:ASN:HB2	1:B:351:TYR:HH	1.68	0.58
1:B:242:ARG:CG	1:B:242:ARG:HH11	2.17	0.58
1:D:498:GLN:HA	1:D:498:GLN:NE2	2.09	0.58
1:G:246:TYR:CE1	1:G:248:GLY:CA	2.86	0.58
1:G:240:LYS:HB3	1:G:240:LYS:NZ	2.20	0.57
1:D:408:ASN:OD1	1:D:409:ARG:N	2.37	0.57
1:D:205:LEU:HA	1:D:220:LEU:HD23	1.86	0.57
1:D:159:LEU:O	1:D:163:LEU:HD22	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:425:LYS:C	1:B:430:VAL:CG2	2.70	0.57
1:B:426:TRP:CZ2	1:B:431:LYS:HA	2.39	0.57
1:G:425:LYS:C	1:G:430:VAL:CG2	2.70	0.57
1:G:638:PHE:CA	1:G:641:THR:HG22	2.32	0.57
1:E:575:ARG:NH1	1:E:575:ARG:HG3	2.18	0.57
1:B:240:LYS:HB3	1:B:240:LYS:NZ	2.19	0.57
1:G:121:VAL:HG22	1:G:172:THR:CG2	2.33	0.57
1:G:205:LEU:HA	1:G:220:LEU:HD23	1.86	0.57
1:B:566:ALA:O	1:B:570:GLU:OE2	2.22	0.57
2:A:7:UNK:O	2:A:28:UNK:N	2.36	0.57
1:D:575:ARG:NH1	1:D:575:ARG:HG3	2.18	0.57
1:E:349:LEU:HD23	1:E:349:LEU:C	2.25	0.57
1:E:242:ARG:HH11	1:E:242:ARG:CG	2.17	0.57
1:E:639:LYS:HG2	1:G:647:LEU:CD2	2.22	0.57
1:B:246:TYR:CE1	1:B:248:GLY:CA	2.86	0.57
1:D:421:LEU:HD23	1:D:425:LYS:HG3	1.86	0.57
1:D:556:THR:O	1:D:559:PHE:CD2	2.57	0.57
1:D:240:LYS:HB3	1:D:240:LYS:NZ	2.20	0.57
1:G:349:LEU:HD23	1:G:349:LEU:C	2.25	0.57
1:G:175:LEU:O	1:G:179:VAL:HG23	2.05	0.57
1:E:408:ASN:OD1	1:E:409:ARG:N	2.37	0.57
1:G:408:ASN:OD1	1:G:409:ARG:N	2.37	0.57
1:D:426:TRP:CZ2	1:D:431:LYS:HA	2.39	0.57
1:E:511:TYR:O	1:E:514:ILE:HG23	2.02	0.57
1:G:566:ALA:O	1:G:570:GLU:OE2	2.22	0.57
1:B:452:ALA:O	1:E:597:THR:HB	2.05	0.57
1:E:175:LEU:O	1:E:179:VAL:HG23	2.05	0.57
1:B:421:LEU:HD23	1:B:425:LYS:HG3	1.87	0.57
1:G:559:PHE:N	1:G:559:PHE:CD2	2.73	0.57
1:G:631:TYR:CD2	2:A:24:UNK:C	2.84	0.57
1:B:631:TYR:CD2	2:F:24:UNK:C	2.82	0.57
1:B:247:PHE:CE1	1:B:254:LEU:HD13	2.40	0.57
1:G:247:PHE:CE1	1:G:254:LEU:HD13	2.40	0.57
1:G:579:ARG:NH2	1:G:579:ARG:HG2	2.19	0.57
1:G:159:LEU:O	1:G:163:LEU:HD22	2.04	0.57
1:E:159:LEU:O	1:E:163:LEU:HD22	2.04	0.57
1:D:638:PHE:CA	1:D:641:THR:HG22	2.32	0.57
1:E:556:THR:O	1:E:559:PHE:CD2	2.57	0.57
1:D:566:ALA:O	1:D:570:GLU:OE2	2.22	0.57
1:D:349:LEU:HD23	1:D:349:LEU:C	2.25	0.57
2:C:9:UNK:O	2:C:10:UNK:C	2.52	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:375:GLY:HA3	1:E:210:GLU:HA	1.87	0.57
1:E:247:PHE:CE1	1:E:254:LEU:HD13	2.40	0.57
1:E:579:ARG:NH2	1:E:579:ARG:HG2	2.19	0.57
1:B:349:LEU:HD23	1:B:349:LEU:C	2.25	0.57
1:D:175:LEU:O	1:D:179:VAL:HG23	2.04	0.57
1:G:444:TYR:CE2	1:G:481:SER:HA	2.40	0.57
1:B:575:ARG:NH1	1:B:575:ARG:HG3	2.18	0.57
1:B:367:ARG:HG3	1:B:367:ARG:NH1	2.20	0.57
1:B:529:LEU:CB	1:B:537:TYR:HB2	2.35	0.57
1:E:510:SER:OG	1:E:513:GLU:CD	2.44	0.57
1:B:158:LEU:HD21	1:B:162:MET:HE3	1.85	0.57
1:B:511:TYR:O	1:B:514:ILE:HG23	2.02	0.57
1:E:529:LEU:CB	1:E:537:TYR:HB2	2.35	0.57
1:G:529:LEU:CB	1:G:537:TYR:HB2	2.35	0.57
1:E:240:LYS:HB3	1:E:240:LYS:NZ	2.20	0.57
1:E:639:LYS:CE	1:G:647:LEU:HB3	2.34	0.57
1:B:175:LEU:O	1:B:179:VAL:HG23	2.04	0.57
1:B:205:LEU:HA	1:B:220:LEU:HD23	1.86	0.57
1:G:584:TYR:OH	1:G:641:THR:HB	2.04	0.56
1:D:247:PHE:CE1	1:D:254:LEU:HD13	2.40	0.56
1:D:444:TYR:CE2	1:D:481:SER:HA	2.40	0.56
1:B:375:GLY:N	1:E:210:GLU:CB	2.68	0.56
1:D:579:ARG:HG2	1:D:579:ARG:NH2	2.19	0.56
1:E:367:ARG:NH1	1:E:367:ARG:HG3	2.20	0.56
1:G:519:GLN:HB2	1:G:547:MET:CG	2.25	0.56
1:E:205:LEU:HA	1:E:220:LEU:HD23	1.86	0.56
1:E:421:LEU:HD23	1:E:425:LYS:HG3	1.87	0.56
1:G:511:TYR:O	1:G:515:LEU:HD12	2.05	0.56
2:H:9:UNK:O	2:H:10:UNK:C	2.52	0.56
1:G:600:GLU:O	1:G:628:ASN:OD1	2.24	0.56
1:D:510:SER:OG	1:D:513:GLU:CD	2.44	0.56
1:B:556:THR:O	1:B:559:PHE:CD2	2.57	0.56
1:D:425:LYS:C	1:D:430:VAL:CG2	2.70	0.56
1:D:638:PHE:CE1	1:D:642:ILE:HD11	2.40	0.56
1:G:556:THR:O	1:G:559:PHE:CD2	2.57	0.56
1:G:638:PHE:CE1	1:G:642:ILE:HD11	2.40	0.56
1:D:559:PHE:N	1:D:559:PHE:CD2	2.73	0.56
1:D:672:ILE:HG22	1:D:673:LEU:CD2	2.35	0.56
1:E:511:TYR:O	1:E:515:LEU:HD12	2.05	0.56
1:E:566:ALA:O	1:E:570:GLU:OE2	2.22	0.56
1:B:579:ARG:HG2	1:B:579:ARG:NH2	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:356:GLU:CB	1:B:368:LYS:O	2.54	0.56
1:G:359:GLU:N	1:G:362:CYS:CB	2.64	0.56
1:E:356:GLU:CB	1:E:368:LYS:O	2.54	0.56
1:D:529:LEU:CB	1:D:537:TYR:HB2	2.35	0.56
1:D:647:LEU:HB3	1:G:639:LYS:HE3	1.85	0.56
1:G:240:LYS:H	1:G:242:ARG:N	2.03	0.56
1:B:519:GLN:HB2	1:B:547:MET:CG	2.25	0.56
1:G:453:TYR:CE2	1:G:454:TYR:CE1	2.89	0.56
1:B:510:SER:OG	1:B:513:GLU:CD	2.44	0.56
1:B:184:ASP:C	1:B:186:LEU:N	2.59	0.56
1:B:159:LEU:O	1:B:163:LEU:HD22	2.04	0.56
1:E:559:PHE:CD2	1:E:559:PHE:N	2.73	0.56
1:G:426:TRP:NE1	1:G:431:LYS:HA	2.19	0.56
2:F:9:UNK:O	2:F:10:UNK:C	2.52	0.56
1:E:357:ILE:O	1:E:362:CYS:SG	2.63	0.56
1:B:599:ILE:HD12	1:B:599:ILE:H	1.69	0.56
1:E:354:GLN:HG3	1:E:382:TYR:CD1	2.40	0.56
1:B:240:LYS:H	1:B:242:ARG:N	2.03	0.56
1:G:240:LYS:HB3	1:G:240:LYS:HZ2	1.69	0.56
1:G:344:GLY:HA3	1:G:407:PRO:HG2	1.88	0.56
1:E:286:THR:H	1:E:289:HIS:CD2	2.24	0.56
1:B:426:TRP:NE1	1:B:431:LYS:HA	2.19	0.56
1:G:421:LEU:HD23	1:G:425:LYS:HG3	1.87	0.56
1:E:444:TYR:CE2	1:E:481:SER:HA	2.40	0.56
1:B:511:TYR:O	1:B:515:LEU:HD12	2.05	0.56
1:G:356:GLU:CB	1:G:368:LYS:O	2.54	0.56
1:G:357:ILE:O	1:G:362:CYS:SG	2.63	0.56
1:D:600:GLU:O	1:D:628:ASN:OD1	2.23	0.56
1:E:600:GLU:O	1:E:628:ASN:OD1	2.24	0.56
1:B:354:GLN:HG3	1:B:382:TYR:CD1	2.40	0.56
1:B:285:ASN:HA	1:B:289:HIS:CD2	2.41	0.56
1:D:286:THR:H	1:D:289:HIS:CD2	2.24	0.56
1:B:693:SER:O	1:B:694:LYS:C	2.41	0.56
1:D:511:TYR:O	1:D:515:LEU:HD12	2.05	0.56
1:E:591:PHE:CD1	1:E:666:TYR:HD1	2.18	0.56
1:D:180:ALA:O	1:D:185:SER:N	2.39	0.56
1:E:180:ALA:O	1:E:185:SER:N	2.39	0.56
1:B:584:TYR:OH	1:B:641:THR:HB	2.04	0.56
1:D:668:ILE:HG22	1:G:638:PHE:CZ	2.39	0.56
1:E:575:ARG:C	1:E:579:ARG:HD3	2.19	0.56
1:B:357:ILE:O	1:B:362:CYS:SG	2.63	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:599:ILE:H	1:D:599:ILE:HD12	1.69	0.56
1:G:354:GLN:HG3	1:G:382:TYR:CD1	2.40	0.56
1:B:529:LEU:C	1:B:532:SER:OG	2.44	0.56
1:B:443:LEU:N	1:B:446:ILE:HD11	2.20	0.56
1:E:447:ILE:N	1:E:447:ILE:HD12	2.21	0.56
1:D:198:TYR:HE2	1:G:372:TRP:CD2	2.09	0.56
1:D:482:VAL:N	1:D:523:MET:HE3	2.13	0.56
1:D:356:GLU:CB	1:D:368:LYS:O	2.54	0.56
1:D:354:GLN:HG3	1:D:382:TYR:CD1	2.40	0.56
1:D:647:LEU:HB3	1:G:639:LYS:CE	2.35	0.56
1:B:286:THR:H	1:B:289:HIS:CD2	2.24	0.56
1:G:286:THR:H	1:G:289:HIS:CD2	2.24	0.56
1:D:481:SER:C	1:D:523:MET:HE1	2.12	0.56
1:E:599:ILE:HD12	1:E:599:ILE:H	1.69	0.56
1:E:529:LEU:C	1:E:532:SER:OG	2.44	0.56
1:D:344:GLY:HA3	1:D:407:PRO:HG2	1.88	0.56
1:E:344:GLY:HA3	1:E:407:PRO:HG2	1.88	0.56
1:G:180:ALA:O	1:G:185:SER:N	2.39	0.56
1:B:421:LEU:O	1:B:425:LYS:HG3	2.06	0.56
1:D:421:LEU:O	1:D:425:LYS:HG3	2.06	0.56
1:G:672:ILE:HG22	1:G:673:LEU:CD2	2.36	0.56
1:D:240:LYS:H	1:D:242:ARG:N	2.03	0.56
1:B:444:TYR:CE2	1:B:481:SER:HA	2.40	0.56
1:B:349:LEU:CD2	1:B:353:LEU:HD12	2.36	0.56
1:E:349:LEU:CD2	1:E:353:LEU:HD12	2.36	0.56
1:B:639:LYS:HG2	1:E:647:LEU:CD2	2.20	0.56
1:B:121:VAL:HG22	1:B:172:THR:CG2	2.33	0.56
1:G:285:ASN:HA	1:G:289:HIS:CD2	2.41	0.56
1:B:564:ILE:HD11	1:B:693:SER:OG	2.06	0.55
1:D:357:ILE:O	1:D:362:CYS:SG	2.63	0.55
1:D:349:LEU:CD2	1:D:353:LEU:HD12	2.36	0.55
1:G:349:LEU:CD2	1:G:353:LEU:HD12	2.36	0.55
1:B:447:ILE:N	1:B:447:ILE:HD12	2.21	0.55
1:B:638:PHE:CE1	1:B:642:ILE:HD11	2.40	0.55
1:E:631:TYR:CG	2:H:24:UNK:CB	2.89	0.55
1:B:600:GLU:O	1:B:628:ASN:OD1	2.23	0.55
1:G:349:LEU:HD23	1:G:353:LEU:HD12	1.88	0.55
1:G:510:SER:OG	1:G:513:GLU:CD	2.44	0.55
1:D:285:ASN:HA	1:D:289:HIS:CD2	2.41	0.55
1:B:429:PHE:N	1:B:429:PHE:CD2	2.73	0.55
1:D:421:LEU:HD21	1:D:425:LYS:HZ1	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:631:TYR:CD2	2:C:24:UNK:N	2.67	0.55
1:D:519:GLN:HB2	1:D:547:MET:CG	2.25	0.55
1:B:180:ALA:O	1:B:185:SER:N	2.39	0.55
1:B:672:ILE:HG22	1:B:673:LEU:CD2	2.36	0.55
1:D:426:TRP:CE2	1:D:431:LYS:CA	2.89	0.55
1:E:638:PHE:CE1	1:E:642:ILE:HD11	2.40	0.55
1:D:631:TYR:CD2	2:C:24:UNK:C	2.82	0.55
1:B:349:LEU:HD23	1:B:353:LEU:HD12	1.88	0.55
1:E:349:LEU:HD23	1:E:353:LEU:HD12	1.88	0.55
1:G:367:ARG:HH12	1:G:385:SER:H	0.79	0.55
1:E:639:LYS:HE3	1:G:647:LEU:HB3	1.88	0.55
1:E:603:LYS:HD3	1:E:636:GLU:CG	2.37	0.55
1:B:678:LEU:CD1	1:B:682:MET:HE2	2.34	0.55
1:D:559:PHE:CA	1:D:697:TRP:NE1	2.68	0.55
1:D:564:ILE:HD11	1:D:693:SER:OG	2.06	0.55
1:E:426:TRP:CE2	1:E:431:LYS:CA	2.89	0.55
1:E:443:LEU:N	1:E:446:ILE:HD11	2.20	0.55
1:G:426:TRP:CE2	1:G:431:LYS:CA	2.89	0.55
1:D:184:ASP:C	1:D:186:LEU:N	2.59	0.55
1:B:246:TYR:CE1	1:B:248:GLY:HA3	2.41	0.55
1:E:421:LEU:O	1:E:425:LYS:HG3	2.06	0.55
1:G:447:ILE:N	1:G:447:ILE:HD12	2.21	0.55
1:E:369:PHE:N	1:E:369:PHE:CD1	2.73	0.55
1:G:529:LEU:C	1:G:532:SER:OG	2.44	0.55
1:E:240:LYS:H	1:E:242:ARG:N	2.03	0.55
1:E:442:CYS:SG	1:E:552:MET:HE2	2.46	0.55
1:D:349:LEU:HD23	1:D:353:LEU:HD12	1.88	0.55
1:D:529:LEU:C	1:D:532:SER:OG	2.44	0.55
1:G:443:LEU:N	1:G:446:ILE:HD11	2.20	0.55
1:G:599:ILE:H	1:G:599:ILE:HD12	1.69	0.55
1:B:603:LYS:HD3	1:B:636:GLU:CG	2.36	0.55
1:E:246:TYR:CE1	1:E:248:GLY:HA3	2.41	0.55
1:G:442:CYS:SG	1:G:552:MET:HE2	2.46	0.55
1:D:367:ARG:NH1	1:D:367:ARG:HG3	2.20	0.55
1:G:367:ARG:NH1	1:G:367:ARG:HG3	2.20	0.55
1:D:157:CYS:HB2	1:D:176:LEU:HD21	1.88	0.55
1:B:344:GLY:HA3	1:B:407:PRO:HG2	1.88	0.55
1:E:158:LEU:HD21	1:E:162:MET:HE2	1.89	0.55
1:E:285:ASN:HA	1:E:289:HIS:CD2	2.41	0.55
1:D:214:MET:HE3	1:D:218:THR:OG1	2.07	0.55
1:B:426:TRP:CE2	1:B:431:LYS:CA	2.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:421:LEU:O	1:G:425:LYS:HG3	2.06	0.55
1:G:564:ILE:HG12	1:G:693:SER:OG	2.03	0.55
1:G:693:SER:O	1:G:694:LYS:C	2.41	0.55
1:D:639:LYS:HG2	1:B:647:LEU:CD2	2.21	0.55
1:B:559:PHE:N	1:B:559:PHE:CD2	2.73	0.54
1:D:447:ILE:N	1:D:447:ILE:HD12	2.20	0.54
1:G:429:PHE:N	1:G:429:PHE:CD2	2.73	0.54
1:B:591:PHE:CD1	1:B:666:TYR:HD1	2.18	0.54
1:B:369:PHE:N	1:B:369:PHE:CD1	2.73	0.54
1:E:498:GLN:CA	1:E:498:GLN:HE21	2.04	0.54
1:G:246:TYR:CE1	1:G:248:GLY:HA3	2.41	0.54
1:E:678:LEU:HD11	1:E:682:MET:HE3	1.85	0.54
1:E:405:GLU:CB	1:E:407:PRO:CD	2.86	0.54
1:D:246:TYR:CE1	1:D:248:GLY:HA3	2.41	0.54
1:D:443:LEU:N	1:D:446:ILE:HD11	2.20	0.54
1:E:429:PHE:CD2	1:E:429:PHE:N	2.73	0.54
1:G:673:LEU:O	1:G:677:MET:HB3	2.08	0.54
1:B:371:GLU:O	1:B:372:TRP:HD1	1.90	0.54
1:G:580:PHE:CE2	1:G:674:LEU:CD1	2.68	0.54
1:E:240:LYS:HZ2	1:E:240:LYS:HB3	1.71	0.54
1:D:474:ARG:HG3	1:D:475:VAL:N	2.23	0.54
1:D:693:SER:O	1:D:694:LYS:C	2.41	0.54
1:E:456:PRO:HG3	1:E:474:ARG:NH2	2.23	0.54
1:D:603:LYS:HD3	1:D:636:GLU:CG	2.37	0.54
1:E:672:ILE:HG22	1:E:673:LEU:CD2	2.36	0.54
1:D:371:GLU:O	1:D:372:TRP:HD1	1.90	0.54
1:B:456:PRO:HG3	1:B:474:ARG:NH2	2.23	0.54
1:G:456:PRO:HG3	1:G:474:ARG:NH2	2.23	0.54
1:B:673:LEU:O	1:B:677:MET:HB3	2.08	0.54
1:B:591:PHE:CB	1:B:666:TYR:CD1	2.91	0.54
1:G:591:PHE:CD1	1:G:666:TYR:HD1	2.18	0.54
1:E:542:VAL:CG2	1:G:598:LEU:CD2	2.59	0.54
1:D:456:PRO:HG3	1:D:474:ARG:NH2	2.23	0.54
1:E:157:CYS:HB2	1:E:176:LEU:HD21	1.88	0.54
1:D:214:MET:CE	1:D:218:THR:OG1	2.56	0.54
1:D:421:LEU:CD2	1:D:425:LYS:CG	2.86	0.54
1:D:673:LEU:CD1	1:G:572:MET:SD	2.95	0.54
2:H:2:UNK:C	2:H:16:UNK:SG	2.96	0.54
1:B:405:GLU:CB	1:B:407:PRO:CD	2.86	0.54
1:B:214:MET:HE2	1:B:218:THR:OG1	2.08	0.54
1:D:564:ILE:HG23	1:D:689:ILE:HG12	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:421:LEU:CD2	1:G:425:LYS:CG	2.86	0.54
1:D:375:GLY:HA3	1:B:210:GLU:HA	1.86	0.54
1:D:521:LEU:C	1:D:521:LEU:HD22	2.28	0.54
1:B:240:LYS:HE3	1:B:242:ARG:HG2	1.90	0.54
1:D:597:THR:HG22	1:G:453:TYR:N	2.23	0.54
1:G:474:ARG:HG3	1:G:475:VAL:N	2.23	0.54
1:G:157:CYS:HB2	1:G:176:LEU:HD21	1.89	0.54
1:D:673:LEU:O	1:D:677:MET:HB3	2.08	0.54
1:E:693:SER:N	1:E:696:ILE:HG13	2.23	0.54
2:F:2:UNK:C	2:F:16:UNK:SG	2.96	0.54
1:E:374:TYR:O	1:E:376:PRO:N	2.41	0.54
1:G:521:LEU:CD1	1:G:522:PHE:HD2	2.15	0.54
1:G:214:MET:CE	1:G:218:THR:OG1	2.56	0.54
1:D:429:PHE:N	1:D:429:PHE:CD2	2.73	0.54
1:E:564:ILE:HD11	1:E:693:SER:OG	2.06	0.54
1:G:564:ILE:HD11	1:G:693:SER:OG	2.06	0.54
1:G:693:SER:N	1:G:696:ILE:HG13	2.23	0.54
1:D:374:TYR:O	1:D:376:PRO:N	2.41	0.54
1:B:583:VAL:HG12	1:B:674:LEU:HD11	1.90	0.54
1:E:591:PHE:CB	1:E:666:TYR:CD1	2.91	0.54
1:B:367:ARG:O	1:B:383:ASP:CB	2.56	0.54
1:D:320:HIS:CB	1:D:323:LEU:HD23	2.38	0.54
1:B:564:ILE:HG12	1:B:693:SER:OG	2.03	0.53
1:B:564:ILE:HG23	1:B:689:ILE:HG12	1.90	0.53
1:D:673:LEU:CD1	1:G:572:MET:HG3	2.37	0.53
1:E:421:LEU:CD2	1:E:425:LYS:CG	2.86	0.53
1:E:568:MET:HE3	1:E:689:ILE:CD1	2.38	0.53
1:E:673:LEU:O	1:E:677:MET:HB3	2.08	0.53
1:G:559:PHE:CA	1:G:697:TRP:NE1	2.68	0.53
2:A:2:UNK:C	2:A:16:UNK:SG	2.96	0.53
2:C:2:UNK:C	2:C:16:UNK:SG	2.96	0.53
1:E:371:GLU:O	1:E:372:TRP:HD1	1.90	0.53
1:E:546:ALA:HB2	1:G:594:ALA:HB2	1.90	0.53
1:G:374:TYR:O	1:G:376:PRO:N	2.41	0.53
1:D:482:VAL:HA	1:D:523:MET:HE2	1.79	0.53
1:G:521:LEU:HD22	1:G:521:LEU:C	2.28	0.53
1:D:369:PHE:CD1	1:D:369:PHE:N	2.73	0.53
1:G:320:HIS:CB	1:G:323:LEU:HD23	2.38	0.53
1:B:635:LEU:HD12	1:E:648:GLU:HG2	1.90	0.53
1:B:426:TRP:HZ3	1:B:701:ARG:HH12	1.43	0.53
1:E:559:PHE:CA	1:E:697:TRP:NE1	2.68	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:426:TRP:HZ3	1:E:701:ARG:HH12	1.43	0.53
1:G:692:GLU:O	1:G:695:ASN:N	2.42	0.53
1:G:371:GLU:O	1:G:372:TRP:HD1	1.90	0.53
1:E:583:VAL:HG12	1:E:674:LEU:HD11	1.90	0.53
1:E:521:LEU:C	1:E:521:LEU:HD22	2.28	0.53
1:B:350:ALA:N	1:B:414:LEU:HD21	2.24	0.53
1:G:350:ALA:N	1:G:414:LEU:HD21	2.24	0.53
1:G:602:GLY:O	1:G:603:LYS:HE2	2.09	0.53
1:B:320:HIS:CB	1:B:323:LEU:HD23	2.38	0.53
1:B:214:MET:CE	1:B:218:THR:OG1	2.56	0.53
1:B:559:PHE:CA	1:B:697:TRP:NE1	2.68	0.53
2:A:9:UNK:O	2:A:10:UNK:C	2.52	0.53
1:E:575:ARG:HG3	1:E:575:ARG:HH11	1.73	0.53
1:B:474:ARG:HG3	1:B:475:VAL:N	2.23	0.53
1:D:538:VAL:O	1:D:541:MET:N	2.42	0.53
1:B:157:CYS:HB2	1:B:176:LEU:HD21	1.88	0.53
1:B:421:LEU:CD2	1:B:425:LYS:CG	2.86	0.53
1:B:672:ILE:CA	1:B:676:ASN:HD21	2.20	0.53
1:G:564:ILE:HG23	1:G:689:ILE:HG12	1.90	0.53
1:E:350:ALA:N	1:E:414:LEU:HD21	2.24	0.53
1:E:240:LYS:N	1:E:241:GLY:CA	2.72	0.53
1:B:592:SER:OG	1:B:630:LEU:HD11	2.09	0.53
1:D:405:GLU:CB	1:D:407:PRO:CD	2.86	0.53
1:E:718:LYS:O	1:E:719:ALA:CB	2.57	0.53
1:B:718:LYS:O	1:B:719:ALA:CB	2.57	0.53
1:G:718:LYS:O	1:G:719:ALA:CB	2.57	0.53
1:D:426:TRP:NE1	1:D:431:LYS:CA	2.72	0.53
1:G:559:PHE:C	1:G:697:TRP:NE1	2.62	0.53
1:G:558:GLY:C	1:G:697:TRP:NE1	2.62	0.53
1:D:210:GLU:CB	1:G:375:GLY:N	2.70	0.53
1:D:631:TYR:CG	2:C:24:UNK:CB	2.92	0.53
1:B:374:TYR:O	1:B:376:PRO:N	2.41	0.53
1:E:375:GLY:N	1:G:210:GLU:CB	2.72	0.53
1:D:591:PHE:CB	1:D:666:TYR:CD1	2.91	0.53
1:G:405:GLU:CB	1:G:407:PRO:CD	2.86	0.53
1:E:184:ASP:C	1:E:186:LEU:N	2.59	0.53
1:E:602:GLY:O	1:E:603:LYS:HE2	2.09	0.53
1:E:320:HIS:CB	1:E:323:LEU:HD23	2.38	0.53
1:B:565:TYR:CD2	1:B:565:TYR:N	2.77	0.53
1:B:678:LEU:CD1	1:B:682:MET:CE	2.85	0.53
1:E:559:PHE:HD2	1:E:559:PHE:N	2.06	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:538:VAL:O	1:E:541:MET:N	2.42	0.53
1:E:474:ARG:HG3	1:E:475:VAL:N	2.23	0.53
1:B:602:GLY:O	1:B:603:LYS:HE2	2.09	0.53
1:E:286:THR:H	1:E:289:HIS:HD2	1.57	0.53
1:B:559:PHE:N	1:B:559:PHE:HD2	2.06	0.53
1:D:693:SER:N	1:D:696:ILE:HG13	2.23	0.53
1:E:692:GLU:O	1:E:695:ASN:N	2.42	0.53
1:G:559:PHE:HB2	1:G:562:MET:HB2	1.91	0.53
1:G:565:TYR:CD2	1:G:565:TYR:N	2.77	0.53
1:D:240:LYS:N	1:D:241:GLY:CA	2.72	0.53
1:B:631:TYR:CG	2:F:24:UNK:CB	2.90	0.53
1:B:521:LEU:C	1:B:521:LEU:HD22	2.28	0.53
1:D:640:PHE:HD1	1:D:667:VAL:HG22	1.74	0.53
1:B:693:SER:N	1:B:696:ILE:HG13	2.23	0.53
1:E:426:TRP:NE1	1:E:431:LYS:CA	2.72	0.53
1:E:558:GLY:C	1:E:697:TRP:NE1	2.62	0.53
1:E:565:TYR:N	1:E:565:TYR:CD2	2.77	0.53
1:G:559:PHE:N	1:G:559:PHE:HD2	2.06	0.53
1:D:240:LYS:HE3	1:D:242:ARG:HG2	1.90	0.53
1:G:583:VAL:HG12	1:G:674:LEU:HD11	1.90	0.53
1:E:367:ARG:O	1:E:383:ASP:CB	2.56	0.53
1:E:640:PHE:HD1	1:E:667:VAL:CG2	2.22	0.53
1:G:592:SER:OG	1:G:630:LEU:HD11	2.09	0.53
1:E:592:SER:OG	1:E:630:LEU:HD11	2.09	0.53
1:G:306:THR:OG1	1:G:351:TYR:CD1	2.55	0.53
1:B:426:TRP:NE1	1:B:431:LYS:CA	2.72	0.53
1:D:559:PHE:C	1:D:697:TRP:NE1	2.62	0.53
1:E:442:CYS:O	1:E:446:ILE:CD1	2.57	0.53
1:E:564:ILE:HG23	1:E:689:ILE:HG12	1.90	0.53
1:D:210:GLU:HA	1:G:375:GLY:HA3	1.90	0.53
1:D:661:ILE:HD11	1:G:631:TYR:OH	2.07	0.53
1:G:575:ARG:HH11	1:G:575:ARG:HG3	1.73	0.53
1:D:575:ARG:HG3	1:D:575:ARG:HH11	1.73	0.53
1:G:538:VAL:O	1:G:541:MET:N	2.42	0.53
1:D:718:LYS:O	1:D:719:ALA:CB	2.57	0.53
1:G:408:ASN:O	1:G:409:ARG:C	2.48	0.53
1:D:565:TYR:N	1:D:565:TYR:CD2	2.77	0.52
1:D:692:GLU:O	1:D:695:ASN:N	2.42	0.52
1:E:559:PHE:HB2	1:E:562:MET:HB2	1.91	0.52
1:E:564:ILE:HG12	1:E:693:SER:OG	2.03	0.52
1:E:640:PHE:HD1	1:E:667:VAL:HG22	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:240:LYS:HE3	1:G:242:ARG:HG2	1.90	0.52
1:D:121:VAL:HG22	1:D:172:THR:CG2	2.33	0.52
1:B:558:GLY:C	1:B:697:TRP:NE1	2.62	0.52
1:B:689:ILE:O	1:B:693:SER:HB3	2.09	0.52
1:D:442:CYS:O	1:D:446:ILE:CD1	2.57	0.52
1:D:558:GLY:C	1:D:697:TRP:NE1	2.62	0.52
1:G:442:CYS:O	1:G:446:ILE:CD1	2.57	0.52
1:E:521:LEU:CD1	1:E:522:PHE:HD2	2.15	0.52
1:B:240:LYS:N	1:B:241:GLY:CA	2.72	0.52
1:G:240:LYS:N	1:G:241:GLY:CA	2.72	0.52
1:E:240:LYS:HE3	1:E:242:ARG:HG2	1.90	0.52
1:D:602:GLY:O	1:D:603:LYS:HE2	2.09	0.52
1:E:142:ARG:CZ	1:E:183:THR:HG22	2.39	0.52
1:D:689:ILE:O	1:D:693:SER:HB3	2.09	0.52
1:E:572:MET:HE2	1:E:685:THR:OG1	2.09	0.52
2:C:13:UNK:CA	2:C:14:UNK:CB	2.85	0.52
1:G:591:PHE:CB	1:G:666:TYR:CD1	2.91	0.52
1:D:350:ALA:N	1:D:414:LEU:HD21	2.24	0.52
1:G:640:PHE:HD1	1:G:667:VAL:HG22	1.74	0.52
1:D:408:ASN:O	1:D:409:ARG:C	2.48	0.52
1:B:692:GLU:O	1:B:695:ASN:N	2.42	0.52
1:D:572:MET:CG	1:B:673:LEU:HD12	2.32	0.52
1:E:559:PHE:C	1:E:697:TRP:NE1	2.62	0.52
1:G:417:PRO:O	1:G:421:LEU:HB2	2.09	0.52
1:E:214:MET:CE	1:E:218:THR:OG1	2.56	0.52
1:D:559:PHE:N	1:D:559:PHE:HD2	2.06	0.52
1:D:677:MET:O	1:D:681:LEU:CG	2.49	0.52
1:G:668:ILE:CD1	1:G:669:LEU:N	2.73	0.52
1:B:575:ARG:HH11	1:B:575:ARG:HG3	1.73	0.52
1:G:369:PHE:CD1	1:G:369:PHE:N	2.73	0.52
1:G:640:PHE:HD1	1:G:667:VAL:CG2	2.22	0.52
1:D:447:ILE:N	1:D:447:ILE:CD1	2.73	0.52
1:D:694:LYS:NZ	1:D:694:LYS:CB	2.73	0.52
1:G:426:TRP:NE1	1:G:431:LYS:CA	2.72	0.52
1:G:677:MET:O	1:G:681:LEU:CG	2.49	0.52
1:E:631:TYR:CG	2:H:24:UNK:CA	2.75	0.52
1:E:158:LEU:HD21	1:E:162:MET:HE3	1.90	0.52
1:D:142:ARG:CZ	1:D:183:THR:HG22	2.39	0.52
1:B:559:PHE:C	1:B:697:TRP:NE1	2.62	0.52
1:E:417:PRO:O	1:E:421:LEU:HB2	2.09	0.52
1:G:689:ILE:O	1:G:693:SER:HB3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:583:VAL:HG12	1:D:674:LEU:HD11	1.90	0.52
1:D:592:SER:OG	1:D:630:LEU:HD11	2.09	0.52
1:G:710:LYS:NZ	1:G:710:LYS:CA	2.73	0.52
1:E:121:VAL:HG22	1:E:172:THR:CG2	2.33	0.52
1:G:142:ARG:CZ	1:G:183:THR:HG22	2.39	0.52
1:G:421:LEU:HD21	1:G:425:LYS:HZ1	1.72	0.52
1:G:694:LYS:NZ	1:G:694:LYS:CB	2.73	0.52
1:B:538:VAL:O	1:B:541:MET:N	2.42	0.52
1:B:447:ILE:N	1:B:447:ILE:CD1	2.73	0.52
1:D:584:TYR:OH	1:D:641:THR:HB	2.04	0.52
1:G:631:TYR:CG	2:A:24:UNK:CB	2.93	0.52
1:G:655:PHE:CB	1:G:658:VAL:HB	2.40	0.52
1:D:367:ARG:O	1:D:383:ASP:CB	2.56	0.52
1:E:453:TYR:N	1:G:597:THR:HG22	2.25	0.52
1:B:142:ARG:CZ	1:B:183:THR:HG22	2.39	0.52
1:B:442:CYS:O	1:B:446:ILE:CD1	2.57	0.52
1:E:568:MET:HB3	1:E:689:ILE:HD11	1.78	0.52
1:E:689:ILE:O	1:E:693:SER:HB3	2.10	0.52
1:E:693:SER:O	1:E:694:LYS:C	2.41	0.52
1:B:286:THR:H	1:B:289:HIS:HD2	1.57	0.52
1:B:694:LYS:NZ	1:B:694:LYS:CB	2.73	0.51
1:G:426:TRP:HZ3	1:G:701:ARG:HH12	1.43	0.51
1:D:198:TYR:CD1	1:D:242:ARG:HD2	2.45	0.51
1:B:591:PHE:CB	1:B:666:TYR:CE1	2.94	0.51
1:B:640:PHE:HD1	1:B:667:VAL:CG2	2.22	0.51
1:G:286:THR:H	1:G:289:HIS:HD2	1.57	0.51
1:D:429:PHE:HD2	1:D:429:PHE:H	1.58	0.51
1:E:591:PHE:CB	1:E:666:TYR:CE1	2.94	0.51
1:G:591:PHE:CB	1:G:666:TYR:CE1	2.94	0.51
1:D:640:PHE:HD1	1:D:667:VAL:CG2	2.22	0.51
1:D:426:TRP:HZ3	1:D:701:ARG:HH12	1.43	0.51
1:G:367:ARG:O	1:G:383:ASP:CB	2.56	0.51
1:B:417:PRO:O	1:B:421:LEU:HB2	2.09	0.51
1:B:559:PHE:HB2	1:B:562:MET:HB2	1.91	0.51
1:D:441:TYR:O	1:D:445:MET:HG2	2.11	0.51
1:D:678:LEU:CD1	1:D:682:MET:CE	2.86	0.51
1:G:429:PHE:HD2	1:G:429:PHE:H	1.58	0.51
1:G:375:GLY:N	1:G:376:PRO:CD	2.74	0.51
1:B:640:PHE:HD1	1:B:667:VAL:HG22	1.74	0.51
1:B:421:LEU:CD2	1:B:425:LYS:NZ	2.73	0.51
1:D:417:PRO:O	1:D:421:LEU:HB2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:580:PHE:HZ	1:G:674:LEU:CD1	2.01	0.51
1:E:434:PHE:HE1	1:E:555:TYR:HD1	1.59	0.51
1:B:554:TYR:O	1:B:557:ARG:HB2	2.11	0.51
1:E:554:TYR:O	1:E:557:ARG:HB2	2.11	0.51
1:E:694:LYS:NZ	1:E:694:LYS:CB	2.73	0.51
1:D:375:GLY:N	1:D:376:PRO:CD	2.74	0.51
1:B:546:ALA:HB2	1:E:594:ALA:HB2	1.92	0.51
1:B:367:ARG:CG	1:B:367:ARG:NH1	2.73	0.51
1:B:198:TYR:CD1	1:B:242:ARG:HD2	2.45	0.51
1:B:551:ASN:O	1:B:554:TYR:HB3	2.11	0.51
1:E:408:ASN:O	1:E:409:ARG:C	2.48	0.51
1:D:551:ASN:O	1:D:554:TYR:HB3	2.11	0.51
1:G:441:TYR:O	1:G:445:MET:HG2	2.11	0.51
1:G:631:TYR:CD2	2:A:24:UNK:N	2.70	0.51
1:E:375:GLY:N	1:E:376:PRO:CD	2.74	0.51
1:E:240:LYS:N	1:E:241:GLY:HA2	2.26	0.51
1:D:346:ILE:HG12	1:D:411:ASP:HA	1.93	0.51
1:B:178:ASP:O	1:B:182:LYS:HG2	2.11	0.51
1:B:441:TYR:O	1:B:445:MET:HG2	2.10	0.51
1:D:673:LEU:HD12	1:G:572:MET:CG	2.35	0.51
1:E:579:ARG:CG	1:E:579:ARG:NH2	2.73	0.51
1:D:710:LYS:NZ	1:D:710:LYS:CA	2.73	0.51
1:E:551:ASN:O	1:E:554:TYR:HB3	2.11	0.51
1:B:346:ILE:HG12	1:B:411:ASP:HA	1.93	0.51
1:E:178:ASP:O	1:E:182:LYS:HG2	2.11	0.51
1:B:417:PRO:O	1:B:421:LEU:CB	2.59	0.51
1:E:447:ILE:N	1:E:447:ILE:CD1	2.73	0.51
1:G:447:ILE:N	1:G:447:ILE:CD1	2.73	0.51
1:E:657:ALA:O	1:E:660:ILE:HD11	2.11	0.51
1:B:359:GLU:N	1:B:362:CYS:CB	2.64	0.51
1:D:353:LEU:HD21	1:D:386:CYS:SG	2.51	0.51
1:E:453:TYR:CE2	1:E:454:TYR:CE1	2.89	0.51
1:G:551:ASN:O	1:G:554:TYR:HB3	2.11	0.51
1:B:442:CYS:SG	1:B:552:MET:HE2	2.51	0.50
1:D:417:PRO:O	1:D:421:LEU:CB	2.59	0.50
1:E:565:TYR:HD2	1:E:565:TYR:H	1.59	0.50
1:E:366:SER:HB3	1:E:369:PHE:CE1	2.46	0.50
1:D:350:ALA:CA	1:D:414:LEU:HD21	2.42	0.50
1:E:319:LEU:HB3	1:E:320:HIS:CD2	2.47	0.50
1:D:286:THR:H	1:D:289:HIS:HD2	1.57	0.50
1:B:445:MET:CE	1:B:445:MET:CA	2.86	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:565:TYR:HD2	1:B:565:TYR:H	1.59	0.50
1:D:559:PHE:HB2	1:D:562:MET:HB2	1.91	0.50
1:E:441:TYR:O	1:E:445:MET:HG2	2.10	0.50
1:B:655:PHE:CB	1:B:658:VAL:HB	2.40	0.50
1:B:375:GLY:N	1:B:376:PRO:CD	2.74	0.50
1:E:375:GLY:HA3	1:G:210:GLU:HA	1.91	0.50
1:B:580:PHE:CE2	1:B:674:LEU:CD1	2.68	0.50
1:D:591:PHE:CB	1:D:666:TYR:CE1	2.94	0.50
1:D:127:GLN:HA	1:D:130:GLU:HG3	1.94	0.50
1:B:561:GLN:O	1:B:565:TYR:CE2	2.65	0.50
1:B:668:ILE:CD1	1:B:669:LEU:N	2.73	0.50
1:G:678:LEU:CD1	1:G:682:MET:CE	2.86	0.50
1:D:240:LYS:CB	1:D:240:LYS:NZ	2.73	0.50
1:E:593:THR:O	1:E:597:THR:HG23	2.12	0.50
1:G:554:TYR:O	1:G:557:ARG:HB2	2.11	0.50
1:E:181:ARG:C	1:E:184:ASP:H	2.15	0.50
1:B:408:ASN:O	1:B:409:ARG:C	2.48	0.50
1:D:554:TYR:O	1:D:557:ARG:HB2	2.11	0.50
1:D:178:ASP:O	1:D:182:LYS:HG2	2.11	0.50
1:D:561:GLN:O	1:D:565:TYR:CE2	2.65	0.50
1:E:678:LEU:CD1	1:E:682:MET:CE	2.86	0.50
1:B:240:LYS:N	1:B:241:GLY:HA2	2.26	0.50
1:D:639:LYS:HE3	1:B:647:LEU:CB	2.42	0.50
1:D:136:LEU:H	1:D:136:LEU:CD2	2.19	0.50
1:E:158:LEU:HB2	1:E:189:PHE:CZ	2.47	0.50
1:B:319:LEU:HB3	1:B:320:HIS:CD2	2.47	0.50
1:B:429:PHE:HD2	1:B:429:PHE:H	1.58	0.50
1:G:686:VAL:CA	1:G:689:ILE:CG2	2.89	0.50
1:B:631:TYR:CE2	2:F:23:UNK:O	2.63	0.50
1:E:631:TYR:OH	1:G:661:ILE:HD11	2.12	0.50
1:B:353:LEU:HD21	1:B:386:CYS:SG	2.51	0.50
1:E:467:ASN:H	1:E:471:ASP:CB	2.25	0.50
1:G:593:THR:O	1:G:597:THR:HG23	2.12	0.50
1:G:127:GLN:HA	1:G:130:GLU:HG3	1.94	0.50
1:G:178:ASP:O	1:G:182:LYS:HG2	2.11	0.50
1:E:561:GLN:O	1:E:565:TYR:CE2	2.65	0.50
1:G:568:MET:HB3	1:G:689:ILE:HD11	1.78	0.50
1:D:374:TYR:O	1:D:375:GLY:C	2.50	0.50
1:E:350:ALA:CA	1:E:414:LEU:HD21	2.42	0.50
1:G:240:LYS:NZ	1:G:240:LYS:CB	2.73	0.50
1:E:198:TYR:CD1	1:E:242:ARG:HD2	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:710:LYS:NZ	1:B:710:LYS:CA	2.73	0.50
1:E:127:GLN:HA	1:E:130:GLU:HG3	1.94	0.50
1:E:429:PHE:H	1:E:429:PHE:HD2	1.58	0.50
1:G:417:PRO:O	1:G:421:LEU:CB	2.59	0.50
1:G:374:TYR:O	1:G:375:GLY:C	2.50	0.50
1:E:591:PHE:HB2	1:E:666:TYR:CE1	2.46	0.50
1:G:591:PHE:HB2	1:G:666:TYR:CE1	2.46	0.50
1:B:467:ASN:H	1:B:471:ASP:CB	2.25	0.50
1:B:499:ARG:CG	1:B:499:ARG:NH1	2.73	0.50
1:D:593:THR:O	1:D:597:THR:HG23	2.12	0.50
1:B:158:LEU:HB2	1:B:189:PHE:CZ	2.47	0.50
1:E:346:ILE:HG12	1:E:411:ASP:HA	1.93	0.50
1:B:558:GLY:C	1:B:697:TRP:HE1	2.16	0.50
1:D:442:CYS:SG	1:D:552:MET:HE2	2.52	0.50
1:D:591:PHE:HB2	1:D:666:TYR:CE1	2.46	0.50
1:G:367:ARG:CG	1:G:367:ARG:NH1	2.73	0.50
1:E:448:PHE:C	1:E:448:PHE:HD1	2.15	0.50
1:D:498:GLN:HE21	1:D:498:GLN:CA	2.04	0.50
1:D:467:ASN:H	1:D:471:ASP:CB	2.25	0.50
1:D:589:PHE:C	1:D:589:PHE:CD1	2.86	0.50
1:G:499:ARG:CG	1:G:499:ARG:NH1	2.73	0.50
1:B:565:TYR:HD2	1:B:565:TYR:N	2.09	0.50
1:D:686:VAL:CA	1:D:689:ILE:CG2	2.89	0.50
1:G:421:LEU:CD2	1:G:425:LYS:NZ	2.73	0.50
1:G:353:LEU:HB3	1:G:354:GLN:HE22	1.77	0.50
1:G:350:ALA:CA	1:G:414:LEU:HD21	2.42	0.50
1:B:639:LYS:HE3	1:E:647:LEU:CB	2.42	0.50
1:G:240:LYS:N	1:G:241:GLY:HA2	2.26	0.50
1:B:136:LEU:CD2	1:B:136:LEU:H	2.19	0.50
1:B:127:GLN:HA	1:B:130:GLU:HG3	1.94	0.50
1:G:346:ILE:HG12	1:G:411:ASP:HA	1.93	0.50
1:B:434:PHE:HE1	1:B:555:TYR:HD1	1.59	0.49
1:D:565:TYR:N	1:D:565:TYR:HD2	2.10	0.49
1:E:417:PRO:O	1:E:421:LEU:CB	2.59	0.49
1:E:686:VAL:CA	1:E:689:ILE:CG2	2.89	0.49
1:G:561:GLN:O	1:G:565:TYR:CE2	2.65	0.49
1:E:579:ARG:HH21	1:E:579:ARG:HG2	1.76	0.49
1:D:546:ALA:HB2	1:B:594:ALA:HB2	1.94	0.49
1:B:350:ALA:CA	1:B:414:LEU:HD21	2.42	0.49
1:E:383:ASP:CB	1:E:384:LEU:HA	2.42	0.49
1:D:353:LEU:HB3	1:D:354:GLN:HE22	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:498:GLN:HE21	1:B:498:GLN:CA	2.04	0.49
1:G:589:PHE:C	1:G:589:PHE:CD1	2.86	0.49
1:D:453:TYR:CE2	1:D:454:TYR:CE1	2.89	0.49
1:B:453:TYR:CE2	1:B:454:TYR:CE1	2.89	0.49
1:D:181:ARG:C	1:D:184:ASP:H	2.15	0.49
1:D:668:ILE:HD12	1:D:669:LEU:CA	2.43	0.49
1:E:441:TYR:CE1	1:E:552:MET:CG	2.96	0.49
1:B:247:PHE:CZ	1:B:254:LEU:HD13	2.48	0.49
1:E:374:TYR:O	1:E:375:GLY:C	2.50	0.49
1:D:591:PHE:CD1	1:D:666:TYR:CD1	2.97	0.49
1:G:467:ASN:H	1:G:471:ASP:CB	2.25	0.49
1:B:593:THR:O	1:B:597:THR:HG23	2.12	0.49
1:D:558:GLY:C	1:D:697:TRP:HE1	2.15	0.49
1:G:559:PHE:C	1:G:697:TRP:HD1	2.15	0.49
1:G:568:MET:CE	1:G:689:ILE:CD1	2.89	0.49
1:G:498:GLN:CA	1:G:498:GLN:NE2	2.73	0.49
1:D:351:TYR:C	1:D:351:TYR:CD2	2.86	0.49
1:G:181:ARG:C	1:G:184:ASP:H	2.15	0.49
1:D:158:LEU:HB2	1:D:189:PHE:CZ	2.47	0.49
1:G:158:LEU:HB2	1:G:189:PHE:CZ	2.47	0.49
1:B:559:PHE:C	1:B:697:TRP:HD1	2.15	0.49
1:D:565:TYR:H	1:D:565:TYR:HD2	1.59	0.49
1:E:445:MET:CE	1:E:445:MET:CA	2.86	0.49
1:E:565:TYR:HD2	1:E:565:TYR:N	2.09	0.49
1:E:656:LYS:O	1:E:660:ILE:N	2.28	0.49
1:E:655:PHE:CB	1:E:658:VAL:HB	2.40	0.49
1:G:247:PHE:CZ	1:G:254:LEU:HD13	2.48	0.49
1:B:591:PHE:HB2	1:B:666:TYR:CE1	2.46	0.49
1:B:353:LEU:HB3	1:B:354:GLN:HE22	1.77	0.49
1:G:353:LEU:HD21	1:G:386:CYS:SG	2.51	0.49
1:B:453:TYR:C	1:B:453:TYR:CD2	2.86	0.49
1:G:319:LEU:HB3	1:G:320:HIS:CD2	2.47	0.49
1:E:517:PHE:CD2	1:E:517:PHE:C	2.86	0.49
1:G:565:TYR:HD2	1:G:565:TYR:H	1.59	0.49
1:B:655:PHE:HD1	2:C:11:UNK:CA	2.22	0.49
1:E:247:PHE:CZ	1:E:254:LEU:HD13	2.48	0.49
1:G:448:PHE:HD1	1:G:448:PHE:C	2.15	0.49
1:E:449:THR:CB	1:E:545:LEU:HD21	2.42	0.49
1:B:351:TYR:C	1:B:351:TYR:CD2	2.86	0.49
1:B:441:TYR:CE1	1:B:552:MET:CG	2.96	0.49
1:D:635:LEU:HD12	1:B:648:GLU:HG2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:672:ILE:CA	1:D:676:ASN:HD21	2.21	0.49
1:D:239:THR:OG1	1:D:243:PRO:CB	2.45	0.49
1:E:353:LEU:HB3	1:E:354:GLN:HE22	1.77	0.49
1:G:448:PHE:C	1:G:448:PHE:CD1	2.86	0.49
1:D:448:PHE:CD1	1:D:448:PHE:C	2.86	0.49
1:B:441:TYR:CE1	1:B:445:MET:SD	3.06	0.49
1:E:438:PHE:CE1	1:E:442:CYS:SG	3.06	0.49
1:G:668:ILE:HD12	1:G:669:LEU:CA	2.43	0.49
1:D:240:LYS:N	1:D:241:GLY:HA2	2.26	0.49
1:D:242:ARG:NH1	1:D:242:ARG:CG	2.75	0.49
1:G:657:ALA:O	1:G:660:ILE:HD11	2.11	0.49
1:E:354:GLN:NE2	1:E:354:GLN:N	2.60	0.49
1:E:198:TYR:HE1	1:E:242:ARG:CD	2.22	0.49
1:E:710:LYS:NZ	1:E:710:LYS:CA	2.73	0.49
1:B:158:LEU:HD21	1:B:162:MET:HE2	1.94	0.49
1:D:319:LEU:HB3	1:D:320:HIS:CD2	2.47	0.49
1:B:438:PHE:CE1	1:B:442:CYS:SG	3.06	0.49
1:B:239:THR:HG1	1:B:243:PRO:HB3	1.72	0.49
1:G:449:THR:CB	1:G:545:LEU:HD21	2.42	0.49
1:D:499:ARG:CG	1:D:499:ARG:NH1	2.73	0.49
1:E:453:TYR:CD2	1:E:453:TYR:C	2.86	0.49
1:B:181:ARG:C	1:B:184:ASP:H	2.15	0.49
1:B:442:CYS:HB3	1:B:552:MET:CE	2.43	0.49
1:D:438:PHE:CE1	1:D:442:CYS:SG	3.06	0.49
1:D:441:TYR:CE1	1:D:552:MET:CG	2.96	0.49
1:D:638:PHE:CD1	1:B:664:LEU:HG	2.48	0.49
1:D:668:ILE:CD1	1:D:669:LEU:N	2.73	0.49
1:G:441:TYR:CE1	1:G:552:MET:CG	2.96	0.49
1:G:656:LYS:O	1:G:660:ILE:N	2.28	0.49
1:E:571:LYS:HE3	1:E:575:ARG:HG3	1.89	0.49
1:D:579:ARG:HG2	1:D:579:ARG:HH21	1.76	0.49
1:G:354:GLN:NE2	1:G:354:GLN:N	2.60	0.49
1:G:453:TYR:CD2	1:G:453:TYR:C	2.86	0.49
1:E:142:ARG:CD	1:E:183:THR:CG2	2.91	0.49
1:G:441:TYR:CE1	1:G:445:MET:SD	3.06	0.49
1:G:565:TYR:HD2	1:G:565:TYR:N	2.10	0.49
1:B:374:TYR:O	1:B:375:GLY:C	2.50	0.49
1:G:198:TYR:HE1	1:G:242:ARG:CD	2.22	0.49
1:D:448:PHE:C	1:D:448:PHE:HD1	2.15	0.49
1:D:453:TYR:C	1:D:453:TYR:CD2	2.86	0.49
1:G:351:TYR:C	1:G:351:TYR:CD2	2.86	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:668:ILE:HD12	1:B:669:LEU:CA	2.43	0.48
1:G:438:PHE:CE1	1:G:442:CYS:SG	3.06	0.48
1:D:247:PHE:CZ	1:D:254:LEU:HD13	2.48	0.48
1:B:579:ARG:NH2	1:B:579:ARG:CG	2.73	0.48
1:G:521:LEU:HD13	1:G:521:LEU:C	2.17	0.48
1:B:366:SER:HB3	1:B:369:PHE:CE1	2.46	0.48
1:E:242:ARG:NH1	1:E:242:ARG:CG	2.75	0.48
1:B:448:PHE:C	1:B:448:PHE:HD1	2.15	0.48
1:E:589:PHE:C	1:E:589:PHE:CD1	2.86	0.48
1:B:517:PHE:C	1:B:517:PHE:CD2	2.86	0.48
1:D:517:PHE:C	1:D:517:PHE:CD2	2.86	0.48
1:B:438:PHE:C	1:B:438:PHE:CD1	2.86	0.48
1:D:656:LYS:C	1:D:660:ILE:HD12	2.32	0.48
1:B:374:TYR:CA	1:E:210:GLU:CG	2.90	0.48
1:B:589:PHE:C	1:B:589:PHE:CD1	2.86	0.48
1:G:687:ASN:ND2	1:G:687:ASN:N	2.60	0.48
1:D:508:VAL:HG12	1:D:509:ASP:N	2.28	0.48
1:D:442:CYS:HB3	1:D:552:MET:CE	2.43	0.48
1:E:657:ALA:O	1:E:660:ILE:CD1	2.62	0.48
1:D:374:TYR:CA	1:B:210:GLU:CG	2.88	0.48
1:G:571:LYS:HE3	1:G:575:ARG:HG3	1.89	0.48
1:D:366:SER:HB3	1:D:369:PHE:CE1	2.46	0.48
1:B:383:ASP:CB	1:B:384:LEU:HA	2.42	0.48
1:G:448:PHE:CZ	1:G:544:SER:OG	2.59	0.48
1:E:508:VAL:HG12	1:E:509:ASP:N	2.28	0.48
1:E:558:GLY:C	1:E:697:TRP:HE1	2.15	0.48
1:G:631:TYR:CE2	2:A:23:UNK:O	2.66	0.48
1:D:631:TYR:CE2	2:C:23:UNK:O	2.66	0.48
1:B:449:THR:CB	1:B:545:LEU:HD21	2.43	0.48
1:G:538:VAL:CG1	1:G:539:ALA:H	2.27	0.48
1:D:158:LEU:CD2	1:D:158:LEU:O	2.62	0.48
1:G:158:LEU:O	1:G:158:LEU:CD2	2.61	0.48
1:G:517:PHE:C	1:G:517:PHE:CD2	2.86	0.48
1:E:441:TYR:CE1	1:E:445:MET:SD	3.06	0.48
1:E:568:MET:HE3	1:E:689:ILE:HD13	1.95	0.48
1:D:354:GLN:N	1:D:354:GLN:NE2	2.60	0.48
1:D:449:THR:CB	1:D:545:LEU:HD21	2.42	0.48
1:E:351:TYR:CD2	1:E:351:TYR:C	2.86	0.48
1:B:429:PHE:N	1:B:429:PHE:HD2	2.12	0.48
1:B:686:VAL:CA	1:B:689:ILE:CG2	2.89	0.48
1:D:441:TYR:CE1	1:D:445:MET:SD	3.06	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:438:PHE:C	1:G:438:PHE:CD1	2.86	0.48
1:G:558:GLY:C	1:G:697:TRP:HE1	2.15	0.48
1:D:655:PHE:CB	1:D:658:VAL:HB	2.40	0.48
1:G:142:ARG:CD	1:G:183:THR:CG2	2.91	0.48
1:D:158:LEU:HD21	1:D:162:MET:HE3	1.95	0.48
1:G:214:MET:HE3	1:G:218:THR:OG1	2.13	0.48
1:B:565:TYR:O	1:B:568:MET:HG2	2.14	0.48
1:B:638:PHE:CD1	1:E:664:LEU:HG	2.47	0.48
1:E:565:TYR:O	1:E:568:MET:HG2	2.14	0.48
1:G:442:CYS:HB3	1:G:552:MET:CE	2.43	0.48
1:B:657:ALA:O	1:B:660:ILE:CD1	2.62	0.48
1:B:657:ALA:O	1:B:660:ILE:HD11	2.11	0.48
1:B:639:LYS:HE2	1:B:639:LYS:HB3	1.76	0.48
1:G:434:PHE:HE1	1:G:555:TYR:HD1	1.59	0.48
1:D:687:ASN:ND2	1:D:687:ASN:N	2.60	0.48
1:B:142:ARG:CD	1:B:183:THR:CG2	2.91	0.48
1:E:442:CYS:HB3	1:E:552:MET:CE	2.43	0.48
1:E:668:ILE:CD1	1:E:669:LEU:N	2.73	0.48
1:E:672:ILE:CA	1:E:676:ASN:HD21	2.21	0.48
1:D:657:ALA:O	1:D:660:ILE:HD11	2.11	0.48
1:E:631:TYR:CD2	2:H:24:UNK:C	2.86	0.48
2:H:13:UNK:CA	2:H:14:UNK:CB	2.85	0.48
1:D:374:TYR:C	1:D:376:PRO:CD	2.82	0.48
1:G:158:LEU:CD2	1:G:162:MET:HE2	2.44	0.48
1:D:237:LYS:HB2	1:D:237:LYS:HE3	1.66	0.48
1:D:441:TYR:CE1	1:D:552:MET:HG3	2.49	0.48
1:D:568:MET:CE	1:D:689:ILE:CD1	2.89	0.48
1:E:668:ILE:HD12	1:E:669:LEU:CA	2.43	0.48
1:B:374:TYR:C	1:B:376:PRO:CD	2.82	0.48
1:B:354:GLN:NE2	1:B:354:GLN:N	2.60	0.48
1:G:354:GLN:CA	1:G:354:GLN:NE2	2.77	0.48
1:B:448:PHE:C	1:B:448:PHE:CD1	2.86	0.48
1:E:158:LEU:CD2	1:E:158:LEU:O	2.61	0.48
1:G:549:TRP:CZ3	1:G:552:MET:SD	3.01	0.48
1:G:564:ILE:CG1	1:G:693:SER:OG	2.62	0.48
1:G:657:ALA:O	1:G:660:ILE:CD1	2.62	0.48
1:E:359:GLU:N	1:E:362:CYS:CB	2.64	0.48
1:E:354:GLN:NE2	1:E:354:GLN:CA	2.77	0.48
1:G:663:LEU:HA	1:G:663:LEU:HD23	1.78	0.48
1:G:508:VAL:HG12	1:G:509:ASP:N	2.28	0.48
1:B:441:TYR:CE1	1:B:552:MET:HG3	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:568:MET:CE	1:B:689:ILE:CD1	2.89	0.47
1:D:565:TYR:O	1:D:568:MET:HG2	2.14	0.47
1:G:441:TYR:CE1	1:G:552:MET:HG3	2.49	0.47
1:E:374:TYR:CA	1:G:210:GLU:CG	2.92	0.47
1:E:374:TYR:C	1:E:376:PRO:CD	2.82	0.47
1:E:575:ARG:CG	1:E:575:ARG:HH11	2.27	0.47
1:E:448:PHE:C	1:E:448:PHE:CD1	2.86	0.47
1:E:205:LEU:O	1:E:209:ILE:HG13	2.14	0.47
1:G:374:TYR:C	1:G:376:PRO:CD	2.82	0.47
1:D:660:ILE:CD1	1:D:660:ILE:H	2.18	0.47
1:E:538:VAL:CG1	1:E:539:ALA:H	2.27	0.47
1:B:575:ARG:CG	1:B:575:ARG:HH11	2.27	0.47
1:B:579:ARG:HG2	1:B:579:ARG:HH21	1.76	0.47
1:G:575:ARG:HH11	1:G:575:ARG:CG	2.27	0.47
1:B:354:GLN:CA	1:B:354:GLN:NE2	2.77	0.47
1:D:306:THR:HG23	1:D:351:TYR:HE1	1.79	0.47
1:B:508:VAL:HG12	1:B:509:ASP:N	2.28	0.47
1:B:563:GLY:O	1:B:567:VAL:HG23	2.15	0.47
1:D:421:LEU:CD2	1:D:425:LYS:NZ	2.73	0.47
1:D:438:PHE:CD1	1:D:438:PHE:C	2.86	0.47
1:G:429:PHE:HD2	1:G:429:PHE:N	2.12	0.47
1:G:660:ILE:HG12	1:G:661:ILE:N	2.29	0.47
1:E:542:VAL:CG2	1:G:598:LEU:HD23	2.34	0.47
1:E:367:ARG:HH11	1:E:367:ARG:HG3	1.78	0.47
1:E:239:THR:HG1	1:E:243:PRO:HB3	1.74	0.47
1:D:453:TYR:N	1:B:597:THR:HG22	2.29	0.47
1:D:142:ARG:CD	1:D:183:THR:CG2	2.91	0.47
1:D:205:LEU:O	1:D:209:ILE:HG13	2.14	0.47
1:G:205:LEU:O	1:G:209:ILE:HG13	2.14	0.47
1:E:438:PHE:CD1	1:E:438:PHE:C	2.86	0.47
1:E:559:PHE:C	1:E:697:TRP:HD1	2.15	0.47
1:E:563:GLY:O	1:E:567:VAL:HG23	2.15	0.47
1:G:678:LEU:CD1	1:G:682:MET:HE2	2.43	0.47
1:E:452:ALA:C	1:G:597:THR:HB	2.35	0.47
1:B:453:TYR:CE2	1:B:454:TYR:CZ	3.01	0.47
1:D:129:LEU:HD22	1:D:132:LEU:HD22	1.97	0.47
1:E:129:LEU:HD22	1:E:132:LEU:HD22	1.97	0.47
1:B:438:PHE:CD1	1:B:442:CYS:SG	3.08	0.47
1:D:429:PHE:HD2	1:D:429:PHE:N	2.12	0.47
1:E:692:GLU:O	1:E:696:ILE:HG13	2.15	0.47
1:G:438:PHE:CD1	1:G:442:CYS:SG	3.08	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:686:VAL:C	1:G:689:ILE:HG23	2.34	0.47
1:G:692:GLU:O	1:G:696:ILE:HG13	2.15	0.47
1:D:444:TYR:HE2	1:D:480:LEU:O	1.98	0.47
1:D:570:GLU:O	1:D:574:LEU:HD23	2.15	0.47
1:D:354:GLN:NE2	1:D:354:GLN:CA	2.77	0.47
1:D:367:ARG:CG	1:D:367:ARG:NH1	2.73	0.47
1:E:240:LYS:NZ	1:E:240:LYS:CB	2.73	0.47
1:E:172:THR:O	1:E:176:LEU:HB2	2.15	0.47
1:B:692:GLU:O	1:B:696:ILE:HG13	2.15	0.47
1:E:549:TRP:CZ3	1:E:552:MET:SD	3.01	0.47
1:D:239:THR:HA	1:D:243:PRO:HA	1.97	0.47
1:E:353:LEU:HD21	1:E:386:CYS:SG	2.51	0.47
1:G:367:ARG:HH11	1:G:367:ARG:HG3	1.78	0.47
1:D:453:TYR:CE2	1:D:454:TYR:CZ	3.01	0.47
1:B:205:LEU:O	1:B:209:ILE:HG13	2.14	0.47
1:E:438:PHE:CD1	1:E:442:CYS:SG	3.08	0.47
1:G:426:TRP:CD1	1:G:430:VAL:HG12	2.48	0.47
1:G:565:TYR:O	1:G:568:MET:HG2	2.14	0.47
1:E:444:TYR:HE2	1:E:480:LEU:O	1.98	0.47
1:D:657:ALA:O	1:D:660:ILE:CD1	2.62	0.47
1:G:571:LYS:CE	1:G:575:ARG:CG	2.65	0.47
1:B:239:THR:HA	1:B:243:PRO:HA	1.97	0.47
1:B:240:LYS:CB	1:B:240:LYS:NZ	2.73	0.47
1:D:529:LEU:CB	1:D:537:TYR:CB	2.93	0.47
1:G:529:LEU:CB	1:G:537:TYR:CB	2.93	0.47
1:G:198:TYR:CD1	1:G:242:ARG:HD2	2.45	0.47
1:G:239:THR:HA	1:G:243:PRO:HA	1.97	0.47
1:E:239:THR:HA	1:E:243:PRO:HA	1.97	0.47
1:G:172:THR:O	1:G:176:LEU:HB2	2.15	0.47
1:B:129:LEU:HD22	1:B:132:LEU:HD22	1.97	0.47
1:E:441:TYR:CE1	1:E:552:MET:HG3	2.49	0.47
1:G:563:GLY:O	1:G:567:VAL:HG23	2.15	0.47
1:D:660:ILE:HG12	1:D:661:ILE:N	2.29	0.47
1:B:660:ILE:HG12	1:B:661:ILE:N	2.29	0.47
2:H:3:UNK:O	2:H:4:UNK:O	2.33	0.47
1:D:383:ASP:CB	1:D:384:LEU:HA	2.42	0.47
1:G:242:ARG:HB3	1:G:243:PRO:C	2.36	0.47
1:B:519:GLN:CB	1:B:547:MET:HG2	2.29	0.47
1:B:568:MET:HB3	1:B:689:ILE:HD11	1.78	0.47
1:D:198:TYR:HE1	1:D:242:ARG:CD	2.22	0.47
1:G:570:GLU:O	1:G:574:LEU:HD23	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:538:VAL:O	1:B:539:ALA:C	2.53	0.47
1:D:686:VAL:C	1:D:689:ILE:HG23	2.34	0.47
1:D:692:GLU:O	1:D:696:ILE:HG13	2.15	0.47
1:E:686:VAL:C	1:E:689:ILE:HG23	2.34	0.47
1:G:445:MET:CE	1:G:445:MET:CA	2.86	0.47
1:B:444:TYR:HE2	1:B:480:LEU:O	1.98	0.47
1:B:172:THR:O	1:B:176:LEU:HB2	2.15	0.47
1:B:115:ARG:HD3	1:B:115:ARG:O	2.15	0.47
1:G:129:LEU:HD22	1:G:132:LEU:HD22	1.97	0.47
1:D:438:PHE:CD1	1:D:442:CYS:SG	3.08	0.46
1:E:564:ILE:HG13	1:E:693:SER:HB2	1.84	0.46
1:D:648:GLU:HG2	1:G:635:LEU:HD12	1.97	0.46
1:B:242:ARG:HB3	1:B:243:PRO:C	2.36	0.46
1:E:242:ARG:HB3	1:E:243:PRO:C	2.36	0.46
1:G:538:VAL:O	1:G:539:ALA:C	2.53	0.46
1:D:538:VAL:CG1	1:D:539:ALA:H	2.27	0.46
1:B:538:VAL:CG1	1:B:539:ALA:H	2.27	0.46
1:B:442:CYS:SG	1:B:552:MET:CE	3.03	0.46
1:B:686:VAL:C	1:B:689:ILE:HG23	2.34	0.46
1:D:563:GLY:O	1:D:567:VAL:HG23	2.15	0.46
1:E:660:ILE:HG12	1:E:661:ILE:N	2.29	0.46
1:D:575:ARG:CG	1:D:575:ARG:HH11	2.27	0.46
1:G:366:SER:HB3	1:G:369:PHE:CE1	2.46	0.46
1:B:453:TYR:N	1:E:597:THR:HG22	2.30	0.46
1:D:172:THR:O	1:D:176:LEU:HB2	2.15	0.46
1:D:115:ARG:O	1:D:115:ARG:HD3	2.15	0.46
1:D:584:TYR:CZ	1:D:641:THR:CB	2.98	0.46
1:E:421:LEU:CD2	1:E:425:LYS:NZ	2.73	0.46
1:G:672:ILE:CA	1:G:676:ASN:HD21	2.21	0.46
1:G:444:TYR:HE2	1:G:480:LEU:O	1.98	0.46
1:E:529:LEU:CB	1:E:537:TYR:CB	2.93	0.46
1:B:529:LEU:CB	1:B:537:TYR:CB	2.93	0.46
1:G:115:ARG:HD3	1:G:115:ARG:O	2.15	0.46
2:C:3:UNK:O	2:C:4:UNK:O	2.33	0.46
1:D:442:CYS:SG	1:D:552:MET:CE	3.03	0.46
1:E:694:LYS:HB2	1:E:694:LYS:HZ2	1.81	0.46
1:G:442:CYS:SG	1:G:552:MET:CE	3.04	0.46
1:D:586:VAL:HG13	1:D:587:PHE:N	2.30	0.46
1:G:383:ASP:CB	1:G:384:LEU:HA	2.42	0.46
1:G:710:LYS:CE	1:G:710:LYS:CA	2.86	0.46
2:C:3:UNK:C	2:C:4:UNK:O	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:445:MET:CE	1:D:445:MET:CA	2.86	0.46
2:A:13:UNK:CA	2:A:14:UNK:CB	2.85	0.46
1:B:758:UNK:CB	1:E:245:PHE:HB3	2.37	0.46
1:B:571:LYS:HE3	1:B:575:ARG:HG3	1.89	0.46
1:D:519:GLN:CB	1:D:547:MET:HG2	2.29	0.46
1:E:499:ARG:NH1	1:E:499:ARG:CG	2.73	0.46
1:D:538:VAL:O	1:D:539:ALA:C	2.53	0.46
1:E:136:LEU:CD2	1:E:136:LEU:H	2.19	0.46
1:G:184:ASP:C	1:G:186:LEU:N	2.59	0.46
1:D:577:LEU:O	1:D:577:LEU:HD13	2.16	0.46
1:B:678:LEU:HD12	1:B:678:LEU:O	2.16	0.46
1:D:426:TRP:CD1	1:D:430:VAL:HG12	2.48	0.46
1:E:549:TRP:CD1	1:G:590:GLY:HA2	2.51	0.46
1:G:638:PHE:O	1:G:641:THR:HG22	2.16	0.46
1:G:660:ILE:CD1	1:G:660:ILE:H	2.18	0.46
1:E:586:VAL:HG13	1:E:587:PHE:N	2.30	0.46
1:G:598:LEU:O	1:G:599:ILE:HG23	2.16	0.46
1:E:546:ALA:HB2	1:G:594:ALA:CB	2.45	0.46
1:G:471:ASP:O	1:G:475:VAL:HG21	2.16	0.46
1:D:136:LEU:N	1:D:136:LEU:HD23	2.21	0.46
1:E:710:LYS:HZ1	1:E:710:LYS:HA	1.80	0.46
1:G:158:LEU:HD21	1:G:162:MET:HE3	1.97	0.46
2:F:3:UNK:C	2:F:4:UNK:O	2.64	0.46
1:B:638:PHE:O	1:B:641:THR:HG22	2.16	0.46
1:D:242:ARG:HB3	1:D:243:PRO:C	2.36	0.46
1:G:580:PHE:HZ	1:G:674:LEU:HA	1.79	0.46
1:G:577:LEU:O	1:G:577:LEU:HD13	2.16	0.46
1:G:403:SER:C	1:G:404:SER:OG	2.54	0.46
1:D:678:LEU:HD12	1:D:678:LEU:O	2.16	0.46
2:A:3:UNK:C	2:A:4:UNK:O	2.64	0.46
1:D:580:PHE:CZ	1:D:674:LEU:CG	2.96	0.46
1:E:580:PHE:CZ	1:E:674:LEU:CG	2.96	0.46
1:D:594:ALA:HB2	1:G:546:ALA:HB2	1.98	0.46
1:G:545:LEU:HD23	1:G:545:LEU:O	2.16	0.46
1:B:667:VAL:O	1:B:670:THR:HG22	2.15	0.46
1:D:597:THR:HB	1:G:452:ALA:C	2.35	0.46
1:B:516:PHE:CZ	1:B:554:TYR:HD2	2.34	0.46
2:F:3:UNK:O	2:F:4:UNK:O	2.33	0.46
1:E:115:ARG:HD3	1:E:115:ARG:O	2.15	0.46
1:E:638:PHE:O	1:E:641:THR:HG22	2.16	0.46
2:A:3:UNK:O	2:A:4:UNK:O	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:667:VAL:O	1:E:670:THR:HG22	2.15	0.46
1:E:545:LEU:HD23	1:E:545:LEU:O	2.16	0.46
1:E:516:PHE:CZ	1:E:554:TYR:HD2	2.34	0.46
1:E:687:ASN:ND2	1:E:687:ASN:N	2.60	0.46
1:E:403:SER:C	1:E:404:SER:OG	2.54	0.46
1:B:693:SER:C	1:B:696:ILE:HD11	2.31	0.46
1:E:356:GLU:C	1:E:366:SER:OG	2.54	0.46
1:B:384:LEU:CD2	1:B:387:ILE:N	2.55	0.46
1:G:667:VAL:O	1:G:670:THR:HG22	2.15	0.46
1:B:577:LEU:HD13	1:B:577:LEU:O	2.16	0.46
1:D:142:ARG:NE	1:D:183:THR:HG22	2.31	0.46
1:E:429:PHE:N	1:E:429:PHE:HD2	2.12	0.45
1:E:442:CYS:SG	1:E:552:MET:CE	3.03	0.45
1:G:442:CYS:CB	1:G:552:MET:CE	2.94	0.45
1:D:655:PHE:HD1	2:A:11:UNK:CA	2.22	0.45
1:D:657:ALA:C	1:D:660:ILE:HD13	2.36	0.45
2:H:3:UNK:C	2:H:4:UNK:O	2.64	0.45
1:G:580:PHE:CZ	1:G:674:LEU:CG	2.96	0.45
1:B:580:PHE:CZ	1:B:674:LEU:CA	2.92	0.45
1:D:367:ARG:HH11	1:D:367:ARG:HG3	1.78	0.45
1:G:240:LYS:HD3	1:G:242:ARG:HG2	1.98	0.45
1:D:545:LEU:O	1:D:545:LEU:HD23	2.16	0.45
1:B:142:ARG:NE	1:B:183:THR:HG22	2.31	0.45
1:D:516:PHE:CZ	1:D:554:TYR:HD2	2.34	0.45
1:D:403:SER:C	1:D:404:SER:OG	2.54	0.45
1:B:442:CYS:CB	1:B:552:MET:CE	2.94	0.45
1:E:678:LEU:O	1:E:678:LEU:HD12	2.16	0.45
1:G:584:TYR:CZ	1:G:641:THR:CB	2.98	0.45
1:E:580:PHE:CZ	1:E:674:LEU:CA	2.92	0.45
1:D:598:LEU:O	1:D:599:ILE:HG23	2.16	0.45
1:B:242:ARG:NH1	1:B:242:ARG:CG	2.75	0.45
1:B:545:LEU:O	1:B:545:LEU:HD23	2.16	0.45
1:E:142:ARG:NE	1:E:183:THR:HG22	2.31	0.45
1:E:214:MET:HE2	1:E:218:THR:OG1	2.15	0.45
1:B:403:SER:C	1:B:404:SER:OG	2.54	0.45
1:D:678:LEU:CD1	1:D:682:MET:HE2	2.43	0.45
1:E:442:CYS:CB	1:E:552:MET:CE	2.94	0.45
1:E:693:SER:C	1:E:696:ILE:HD11	2.31	0.45
1:E:655:PHE:CB	2:F:10:UNK:O	2.64	0.45
1:E:538:VAL:HG13	1:E:539:ALA:H	1.81	0.45
1:E:542:VAL:CB	1:G:598:LEU:HG	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:598:LEU:O	1:E:599:ILE:HG23	2.16	0.45
1:B:198:TYR:HE1	1:B:242:ARG:CD	2.22	0.45
1:B:240:LYS:HD3	1:B:242:ARG:HG2	1.98	0.45
1:E:306:THR:O	1:E:351:TYR:OH	2.33	0.45
1:G:142:ARG:NE	1:G:183:THR:HG22	2.31	0.45
1:B:158:LEU:O	1:B:158:LEU:CD2	2.61	0.45
1:B:549:TRP:CZ3	1:B:552:MET:SD	3.01	0.45
1:D:673:LEU:O	1:D:677:MET:CB	2.64	0.45
1:E:538:VAL:O	1:E:539:ALA:C	2.53	0.45
1:G:651:GLU:HG3	1:G:651:GLU:H	1.54	0.45
1:D:760:UNK:HA	1:D:761:UNK:C	2.47	0.45
1:E:577:LEU:HD13	1:E:577:LEU:O	2.16	0.45
1:B:434:PHE:CE1	1:B:555:TYR:CD1	3.02	0.45
1:D:442:CYS:C	1:D:446:ILE:HD11	2.37	0.45
1:E:673:LEU:O	1:E:677:MET:CB	2.64	0.45
1:D:655:PHE:CB	2:A:10:UNK:O	2.64	0.45
1:D:571:LYS:HE3	1:D:575:ARG:HG3	1.89	0.45
1:B:586:VAL:HG13	1:B:587:PHE:N	2.30	0.45
1:D:359:GLU:CB	1:D:360:PRO:CD	2.94	0.45
1:B:598:LEU:O	1:B:599:ILE:HG23	2.16	0.45
1:G:516:PHE:CZ	1:G:554:TYR:HD2	2.34	0.45
1:B:493:ILE:O	1:B:497:LEU:N	2.43	0.45
1:B:442:CYS:C	1:B:446:ILE:HD11	2.37	0.45
1:D:638:PHE:O	1:D:641:THR:HG22	2.16	0.45
1:E:442:CYS:C	1:E:446:ILE:HD11	2.37	0.45
1:B:655:PHE:CB	2:C:10:UNK:O	2.64	0.45
1:D:359:GLU:N	1:D:362:CYS:CB	2.64	0.45
1:D:384:LEU:HD22	1:D:387:ILE:H	1.72	0.45
1:E:449:THR:CB	1:E:545:LEU:HD11	2.46	0.45
1:E:240:LYS:HD3	1:E:242:ARG:HG2	1.98	0.45
1:G:306:THR:HG23	1:G:351:TYR:HE1	1.79	0.45
1:E:214:MET:HE3	1:E:218:THR:OG1	2.16	0.45
1:D:663:LEU:HA	1:D:663:LEU:HD23	1.77	0.45
1:D:421:LEU:C	1:D:421:LEU:HD23	2.37	0.45
1:D:549:TRP:CZ3	1:D:552:MET:SD	3.01	0.45
1:E:682:MET:HE1	1:G:672:ILE:O	2.17	0.45
1:G:686:VAL:HA	1:G:689:ILE:HG21	1.97	0.45
1:G:657:ALA:HA	1:G:660:ILE:HD12	1.77	0.45
1:D:580:PHE:HZ	1:D:674:LEU:HA	1.79	0.45
1:E:359:GLU:CB	1:E:360:PRO:CD	2.94	0.45
1:D:667:VAL:O	1:D:670:THR:HG22	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:639:LYS:HE3	1:G:647:LEU:CB	2.47	0.45
1:D:158:LEU:CD2	1:D:162:MET:HE2	2.47	0.45
1:D:442:CYS:CB	1:D:552:MET:CE	2.94	0.45
1:E:564:ILE:CG1	1:E:693:SER:OG	2.62	0.45
1:G:421:LEU:C	1:G:421:LEU:HD23	2.37	0.45
1:G:655:PHE:CB	2:H:10:UNK:O	2.64	0.45
1:G:579:ARG:HG2	1:G:579:ARG:HH21	1.76	0.45
1:D:580:PHE:CZ	1:D:674:LEU:CA	2.92	0.45
1:G:357:ILE:N	1:G:366:SER:HG	1.97	0.45
1:B:354:GLN:HA	1:B:354:GLN:HE21	1.82	0.45
1:G:242:ARG:NH1	1:G:242:ARG:CG	2.75	0.45
1:E:306:THR:HG23	1:E:351:TYR:HE1	1.79	0.45
1:G:306:THR:O	1:G:351:TYR:OH	2.33	0.45
1:D:682:MET:HE1	1:B:672:ILE:O	2.17	0.45
1:G:673:LEU:O	1:G:677:MET:CB	2.64	0.45
1:B:657:ALA:O	1:B:661:ILE:HD11	1.95	0.45
1:D:375:GLY:HA2	1:B:210:GLU:CA	2.46	0.45
1:G:580:PHE:CZ	1:G:674:LEU:CA	2.92	0.45
1:E:354:GLN:HE21	1:E:354:GLN:HA	1.82	0.45
1:G:384:LEU:HD22	1:G:387:ILE:H	1.72	0.45
1:B:449:THR:CB	1:B:545:LEU:HD11	2.46	0.45
1:D:434:PHE:HE1	1:D:555:TYR:HD1	1.59	0.45
1:G:760:UNK:HA	1:G:761:UNK:C	2.47	0.45
1:D:306:THR:OG1	1:D:351:TYR:CD1	2.55	0.45
1:G:516:PHE:HE2	1:G:554:TYR:HE2	1.65	0.45
1:B:673:LEU:O	1:B:677:MET:CB	2.64	0.45
1:D:568:MET:HB3	1:D:689:ILE:HD11	1.78	0.45
1:D:240:LYS:HD3	1:D:242:ARG:HG2	1.98	0.45
1:D:242:ARG:CB	1:D:243:PRO:CA	2.95	0.45
1:E:631:TYR:CE2	2:H:23:UNK:C	3.00	0.45
1:G:586:VAL:HG13	1:G:587:PHE:N	2.30	0.45
1:G:449:THR:CB	1:G:545:LEU:HD11	2.46	0.45
1:G:487:TYR:O	1:G:487:TYR:CD2	2.70	0.45
1:B:441:TYR:HE1	1:B:552:MET:CG	2.30	0.44
1:D:354:GLN:HE21	1:D:354:GLN:HA	1.82	0.44
1:D:647:LEU:CB	1:G:639:LYS:HE3	2.47	0.44
1:B:760:UNK:HA	1:B:761:UNK:C	2.46	0.44
1:B:488:PHE:HB2	1:B:520:SER:CB	2.45	0.44
1:D:516:PHE:HE2	1:D:554:TYR:HE2	1.65	0.44
1:B:564:ILE:CG1	1:B:693:SER:OG	2.62	0.44
1:E:654:ASP:O	1:E:655:PHE:CD2	2.71	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:655:PHE:HD1	2:F:11:UNK:CA	2.22	0.44
1:G:354:GLN:HA	1:G:354:GLN:HE21	1.82	0.44
1:G:467:ASN:N	1:G:471:ASP:CB	2.81	0.44
1:B:710:LYS:HZ1	1:B:710:LYS:HA	1.80	0.44
1:G:136:LEU:HD23	1:G:136:LEU:N	2.21	0.44
1:B:516:PHE:HE2	1:B:554:TYR:HE2	1.65	0.44
1:G:472:TYR:CD1	1:G:472:TYR:O	2.70	0.44
1:B:687:ASN:N	1:B:687:ASN:ND2	2.60	0.44
1:E:580:PHE:HZ	1:E:674:LEU:HA	1.79	0.44
1:E:591:PHE:CD1	1:E:666:TYR:CD1	2.97	0.44
1:B:591:PHE:CD1	1:B:666:TYR:CD1	2.97	0.44
1:G:359:GLU:CB	1:G:360:PRO:CD	2.94	0.44
1:E:384:LEU:HD21	1:E:387:ILE:CA	2.48	0.44
1:G:519:GLN:CB	1:G:547:MET:HG2	2.29	0.44
1:B:498:GLN:NE2	1:B:498:GLN:CA	2.73	0.44
1:E:516:PHE:HE2	1:E:554:TYR:HE2	1.65	0.44
1:D:472:TYR:O	1:D:472:TYR:CD1	2.70	0.44
1:G:346:ILE:HG12	1:G:411:ASP:CA	2.48	0.44
1:B:261:LEU:HD21	1:B:311:GLU:HG2	2.00	0.44
1:D:487:TYR:CD2	1:D:487:TYR:O	2.70	0.44
1:E:487:TYR:CD2	1:E:487:TYR:O	2.70	0.44
1:D:590:GLY:HA2	1:G:549:TRP:CD1	2.52	0.44
1:E:568:MET:HE1	1:G:681:LEU:HD21	1.99	0.44
1:G:425:LYS:O	1:G:429:PHE:HD2	1.96	0.44
2:F:13:UNK:CA	2:F:14:UNK:CB	2.85	0.44
1:E:560:GLN:HA	1:E:697:TRP:CG	2.52	0.44
1:G:635:LEU:HD22	1:G:635:LEU:HA	1.79	0.44
1:D:664:LEU:HG	1:G:638:PHE:CD1	2.53	0.44
1:B:599:ILE:CD1	1:B:599:ILE:N	2.73	0.44
1:E:651:GLU:HG3	1:E:651:GLU:H	1.54	0.44
1:B:472:TYR:O	1:B:472:TYR:CD1	2.70	0.44
1:E:188:GLN:NE2	1:E:188:GLN:H	2.13	0.44
1:G:403:SER:O	1:G:404:SER:OG	2.34	0.44
1:B:584:TYR:CD1	1:B:584:TYR:O	2.71	0.44
1:B:648:GLU:OE2	1:B:648:GLU:HA	2.17	0.44
1:E:693:SER:N	1:E:696:ILE:CG1	2.81	0.44
1:B:511:TYR:CD2	1:B:511:TYR:O	2.70	0.44
1:D:511:TYR:CD2	1:D:511:TYR:O	2.70	0.44
1:E:350:ALA:HB2	1:E:414:LEU:HD21	2.00	0.44
1:D:449:THR:CB	1:D:545:LEU:HD11	2.46	0.44
1:E:760:UNK:HA	1:E:761:UNK:C	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:306:THR:HG23	1:B:351:TYR:HE1	1.79	0.44
1:G:261:LEU:HD21	1:G:311:GLU:HG2	2.00	0.44
1:D:441:TYR:HE1	1:D:552:MET:CG	2.30	0.44
1:D:568:MET:HE3	1:D:689:ILE:CD1	2.48	0.44
1:G:648:GLU:OE2	1:G:648:GLU:HA	2.17	0.44
1:G:678:LEU:HD12	1:G:678:LEU:O	2.16	0.44
1:G:693:SER:C	1:G:696:ILE:HD11	2.31	0.44
1:G:559:PHE:N	1:G:697:TRP:HE1	2.16	0.44
1:B:371:GLU:O	1:B:372:TRP:CD1	2.71	0.44
1:G:242:ARG:CB	1:G:243:PRO:CA	2.95	0.44
1:D:467:ASN:N	1:D:471:ASP:CB	2.81	0.44
1:E:584:TYR:O	1:E:584:TYR:CD1	2.71	0.44
1:E:237:LYS:HB2	1:E:237:LYS:HE3	1.67	0.44
1:E:559:PHE:N	1:E:697:TRP:HE1	2.16	0.44
1:G:442:CYS:C	1:G:446:ILE:HD11	2.37	0.44
1:E:511:TYR:O	1:E:511:TYR:CD2	2.70	0.44
1:G:356:GLU:C	1:G:366:SER:OG	2.54	0.44
1:D:639:LYS:HB3	1:D:639:LYS:HE2	1.76	0.44
1:B:467:ASN:N	1:B:471:ASP:CB	2.81	0.44
1:E:467:ASN:N	1:E:471:ASP:CB	2.81	0.44
1:B:188:GLN:H	1:B:188:GLN:NE2	2.13	0.44
1:B:421:LEU:HD23	1:B:421:LEU:C	2.37	0.44
1:B:696:ILE:H	1:B:696:ILE:HG13	1.57	0.44
1:D:559:PHE:C	1:D:697:TRP:HD1	2.15	0.44
1:D:693:SER:O	1:D:696:ILE:HD12	2.18	0.44
1:E:572:MET:HB2	1:G:673:LEU:CD1	2.35	0.44
1:E:693:SER:O	1:E:696:ILE:HD12	2.18	0.44
1:B:654:ASP:O	1:B:655:PHE:CD2	2.71	0.44
1:G:654:ASP:O	1:G:655:PHE:CD2	2.71	0.44
1:B:239:THR:C	1:B:241:GLY:HA2	2.39	0.44
1:G:239:THR:C	1:G:241:GLY:HA2	2.39	0.44
1:G:330:ASN:O	1:G:331:ARG:C	2.56	0.44
1:E:330:ASN:O	1:E:331:ARG:C	2.56	0.44
1:E:472:TYR:O	1:E:472:TYR:CD1	2.71	0.44
1:E:663:LEU:HD23	1:E:663:LEU:HA	1.78	0.44
1:B:675:LEU:HD13	1:B:675:LEU:HA	1.81	0.43
1:G:441:TYR:HE1	1:G:552:MET:CG	2.30	0.43
1:G:584:TYR:O	1:G:584:TYR:CD1	2.71	0.43
1:D:654:ASP:O	1:D:655:PHE:CD2	2.71	0.43
1:E:656:LYS:C	1:E:660:ILE:HD12	2.32	0.43
1:E:538:VAL:HG11	1:G:655:PHE:CZ	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:657:ALA:C	1:G:660:ILE:HD13	2.36	0.43
1:B:350:ALA:HB2	1:B:414:LEU:HD21	2.00	0.43
1:B:760:UNK:CA	1:B:761:UNK:CB	2.86	0.43
1:B:487:TYR:O	1:B:487:TYR:CD2	2.70	0.43
1:D:648:GLU:HA	1:D:648:GLU:OE2	2.17	0.43
1:E:441:TYR:CD1	1:E:552:MET:HG3	2.54	0.43
1:E:675:LEU:HA	1:E:675:LEU:HD13	1.81	0.43
1:D:239:THR:C	1:D:241:GLY:HA2	2.38	0.43
1:G:511:TYR:O	1:G:511:TYR:CD2	2.70	0.43
1:B:359:GLU:CB	1:B:360:PRO:CD	2.94	0.43
1:D:434:PHE:CE1	1:D:555:TYR:CD1	3.02	0.43
1:D:596:VAL:CG1	1:G:453:TYR:CE1	2.92	0.43
1:G:510:SER:OG	1:G:513:GLU:CG	2.66	0.43
1:E:142:ARG:C	1:E:144:THR:H	2.22	0.43
1:G:158:LEU:C	1:G:158:LEU:HD22	2.39	0.43
1:D:346:ILE:HG12	1:D:411:ASP:CA	2.48	0.43
1:E:269:GLN:HE22	1:E:318:LYS:NZ	2.16	0.43
1:D:462:PRO:HA	1:D:463:TYR:C	2.39	0.43
1:D:269:GLN:HE22	1:D:318:LYS:NZ	2.16	0.43
1:B:584:TYR:CZ	1:B:641:THR:CB	2.98	0.43
1:E:421:LEU:HD23	1:E:421:LEU:C	2.37	0.43
1:E:635:LEU:HA	1:E:635:LEU:HD22	1.79	0.43
1:G:441:TYR:CD1	1:G:552:MET:HG3	2.54	0.43
1:E:158:LEU:HD22	1:E:158:LEU:C	2.39	0.43
1:B:560:GLN:HA	1:B:697:TRP:CG	2.51	0.43
1:E:638:PHE:CD1	1:G:664:LEU:HG	2.53	0.43
1:E:514:ILE:CD1	1:E:514:ILE:C	2.86	0.43
1:G:514:ILE:C	1:G:514:ILE:CD1	2.86	0.43
1:B:240:LYS:N	1:B:242:ARG:N	2.66	0.43
1:E:242:ARG:CB	1:E:243:PRO:CA	2.95	0.43
1:G:710:LYS:HZ1	1:G:710:LYS:HA	1.81	0.43
1:E:510:SER:OG	1:E:513:GLU:CG	2.66	0.43
1:B:158:LEU:HD22	1:B:158:LEU:C	2.39	0.43
1:E:346:ILE:HG12	1:E:411:ASP:CA	2.48	0.43
1:G:493:ILE:O	1:G:497:LEU:N	2.43	0.43
1:B:441:TYR:CD1	1:B:552:MET:HG3	2.54	0.43
1:D:686:VAL:HA	1:D:689:ILE:HG21	1.97	0.43
1:G:693:SER:C	1:G:696:ILE:CD1	2.86	0.43
1:B:570:GLU:O	1:B:574:LEU:HD23	2.14	0.43
1:D:356:GLU:C	1:D:366:SER:OG	2.54	0.43
1:D:350:ALA:HB2	1:D:414:LEU:HD21	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:448:PHE:CD1	1:B:545:LEU:HG	2.54	0.43
1:E:471:ASP:O	1:E:475:VAL:HG21	2.16	0.43
1:G:589:PHE:CE1	1:G:593:THR:HG21	2.54	0.43
1:B:589:PHE:CE1	1:B:593:THR:HG21	2.54	0.43
1:G:214:MET:HE2	1:G:218:THR:OG1	2.18	0.43
1:B:269:GLN:HE22	1:B:318:LYS:NZ	2.16	0.43
1:G:269:GLN:HE22	1:G:318:LYS:NZ	2.16	0.43
1:E:261:LEU:HD21	1:E:311:GLU:HG2	2.00	0.43
1:B:693:SER:O	1:B:696:ILE:HD12	2.18	0.43
1:D:441:TYR:CD1	1:D:552:MET:HG3	2.54	0.43
1:D:441:TYR:CE2	1:D:445:MET:SD	3.12	0.43
1:D:672:ILE:HA	1:D:676:ASN:ND2	2.26	0.43
1:D:559:PHE:N	1:D:697:TRP:HE1	2.16	0.43
1:G:568:MET:HE3	1:G:689:ILE:CD1	2.48	0.43
1:E:384:LEU:C	1:E:384:LEU:CD2	2.86	0.43
1:D:384:LEU:HD21	1:D:387:ILE:CA	2.48	0.43
1:E:640:PHE:CD1	1:E:667:VAL:CG2	3.02	0.43
1:G:240:LYS:N	1:G:242:ARG:N	2.66	0.43
1:B:510:SER:OG	1:B:513:GLU:CG	2.66	0.43
1:D:158:LEU:C	1:D:158:LEU:HD22	2.39	0.43
1:B:346:ILE:HG12	1:B:411:ASP:CA	2.48	0.43
1:G:462:PRO:HA	1:G:463:TYR:C	2.39	0.43
1:E:441:TYR:HE1	1:E:552:MET:CG	2.30	0.43
1:G:693:SER:O	1:G:696:ILE:HD12	2.18	0.43
1:B:631:TYR:CG	2:F:24:UNK:CA	2.73	0.43
1:E:586:VAL:CG1	1:E:587:PHE:N	2.82	0.43
1:B:580:PHE:HZ	1:B:674:LEU:HA	1.79	0.43
1:B:586:VAL:CG1	1:B:587:PHE:N	2.82	0.43
1:E:353:LEU:HB2	1:E:354:GLN:OE1	2.19	0.43
1:E:239:THR:C	1:E:241:GLY:HA2	2.38	0.43
1:D:577:LEU:C	1:D:577:LEU:CD1	2.86	0.43
1:B:330:ASN:O	1:B:331:ARG:C	2.56	0.43
1:B:462:PRO:HA	1:B:463:TYR:C	2.39	0.43
1:B:559:PHE:N	1:B:697:TRP:HE1	2.16	0.43
1:E:455:ARG:NH2	1:E:538:VAL:HG21	2.22	0.43
1:D:357:ILE:N	1:D:366:SER:HG	2.03	0.43
1:G:414:LEU:HD12	1:G:415:VAL:H	1.84	0.43
1:B:640:PHE:CD1	1:B:667:VAL:CG2	3.02	0.43
1:B:406:THR:N	1:B:407:PRO:CD	2.82	0.43
1:D:510:SER:OG	1:D:513:GLU:CG	2.66	0.43
1:G:390:CYS:O	1:G:392:LYS:O	2.37	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:560:GLN:HA	1:D:697:TRP:CG	2.52	0.43
1:D:584:TYR:O	1:D:584:TYR:CD1	2.71	0.43
1:D:564:ILE:CG1	1:D:693:SER:OG	2.62	0.43
1:E:648:GLU:HA	1:E:648:GLU:OE2	2.17	0.43
1:D:198:TYR:CE2	1:G:372:TRP:HZ3	2.04	0.43
1:B:656:LYS:CA	1:B:659:PHE:HB3	2.49	0.43
1:D:599:ILE:N	1:D:599:ILE:CD1	2.73	0.43
1:B:353:LEU:HB2	1:B:354:GLN:OE1	2.19	0.43
1:D:384:LEU:CD2	1:D:387:ILE:N	2.55	0.43
1:D:306:THR:O	1:D:351:TYR:OH	2.33	0.43
1:D:390:CYS:O	1:D:392:LYS:O	2.37	0.43
1:D:493:ILE:O	1:D:497:LEU:N	2.43	0.43
1:E:390:CYS:O	1:E:392:LYS:O	2.37	0.43
1:B:295:ALA:HA	1:B:301:ASN:HD21	1.84	0.43
1:B:682:MET:HE1	1:E:672:ILE:O	2.18	0.43
1:D:438:PHE:CD1	1:D:438:PHE:O	2.72	0.43
1:D:635:LEU:HD22	1:D:635:LEU:HA	1.79	0.43
1:E:672:ILE:CA	1:E:676:ASN:ND2	2.82	0.43
1:G:421:LEU:C	1:G:421:LEU:CD2	2.87	0.43
1:G:668:ILE:CG1	1:G:669:LEU:N	2.82	0.43
1:G:591:PHE:CD1	1:G:666:TYR:CD1	2.97	0.43
1:B:240:LYS:HB3	1:B:240:LYS:HZ2	1.82	0.43
1:G:384:LEU:HD21	1:G:387:ILE:CA	2.48	0.43
1:G:448:PHE:CD1	1:G:448:PHE:O	2.70	0.43
1:E:240:LYS:N	1:E:242:ARG:N	2.66	0.43
1:E:453:TYR:CE2	1:E:454:TYR:CZ	3.01	0.43
1:G:142:ARG:C	1:G:144:THR:H	2.22	0.43
1:G:188:GLN:H	1:G:188:GLN:NE2	2.13	0.43
1:D:295:ALA:HA	1:D:301:ASN:HD21	1.84	0.43
1:B:390:CYS:O	1:B:392:LYS:O	2.37	0.43
1:B:438:PHE:O	1:B:438:PHE:CD1	2.72	0.42
1:B:584:TYR:O	1:B:588:LEU:HB3	2.19	0.42
1:D:656:LYS:CA	1:D:659:PHE:HB3	2.49	0.42
1:D:586:VAL:CG1	1:D:587:PHE:N	2.82	0.42
1:B:357:ILE:N	1:B:366:SER:HG	2.03	0.42
1:G:353:LEU:HB2	1:G:354:GLN:OE1	2.19	0.42
1:E:589:PHE:CE1	1:E:593:THR:HG21	2.54	0.42
1:D:662:LEU:HD23	1:D:662:LEU:HA	1.81	0.42
1:D:693:SER:N	1:D:696:ILE:CG1	2.81	0.42
1:D:254:LEU:HD11	1:G:376:PRO:HD3	2.02	0.42
1:G:371:GLU:O	1:G:372:TRP:CD1	2.71	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:371:GLU:O	1:E:372:TRP:CD1	2.71	0.42
1:B:384:LEU:HD21	1:B:387:ILE:CA	2.48	0.42
1:B:242:ARG:CB	1:B:243:PRO:CA	2.95	0.42
1:D:406:THR:N	1:D:407:PRO:CD	2.82	0.42
1:E:584:TYR:O	1:E:588:LEU:HB3	2.19	0.42
1:B:142:ARG:C	1:B:144:THR:H	2.22	0.42
1:B:487:TYR:C	1:B:487:TYR:CD2	2.93	0.42
1:B:426:TRP:CD1	1:B:430:VAL:HG12	2.47	0.42
1:E:482:VAL:N	1:E:523:MET:HE3	2.24	0.42
1:E:656:LYS:CA	1:E:659:PHE:HB3	2.49	0.42
1:B:414:LEU:HD12	1:B:415:VAL:H	1.84	0.42
1:G:448:PHE:CD1	1:G:545:LEU:HG	2.54	0.42
1:E:448:PHE:CD1	1:E:545:LEU:HG	2.54	0.42
1:D:640:PHE:CD1	1:D:667:VAL:CG2	3.02	0.42
1:G:640:PHE:CD1	1:G:667:VAL:CG2	3.02	0.42
1:B:516:PHE:CE2	1:B:554:TYR:CE2	3.07	0.42
1:E:516:PHE:CE2	1:E:554:TYR:CE2	3.07	0.42
1:D:762:UNK:O	1:B:212:ARG:NH2	2.53	0.42
1:D:330:ASN:O	1:D:331:ARG:C	2.56	0.42
1:B:679:ILE:HA	1:B:682:MET:HG3	2.01	0.42
1:D:693:SER:C	1:D:696:ILE:CD1	2.86	0.42
1:G:693:SER:N	1:G:696:ILE:CG1	2.81	0.42
1:E:570:GLU:O	1:E:574:LEU:HD23	2.14	0.42
1:E:414:LEU:HD12	1:E:415:VAL:H	1.84	0.42
1:D:589:PHE:CE1	1:D:593:THR:HG21	2.54	0.42
1:E:406:THR:N	1:E:407:PRO:CD	2.82	0.42
1:G:406:THR:N	1:G:407:PRO:CD	2.82	0.42
1:B:572:MET:HB2	1:E:673:LEU:CD1	2.41	0.42
1:B:668:ILE:CG1	1:B:669:LEU:N	2.82	0.42
1:E:686:VAL:HA	1:E:689:ILE:HG21	1.97	0.42
1:B:575:ARG:NH1	1:B:575:ARG:CG	2.83	0.42
1:B:383:ASP:HB3	1:B:384:LEU:CA	2.48	0.42
1:D:414:LEU:HD12	1:D:415:VAL:H	1.84	0.42
1:G:639:LYS:HB3	1:G:639:LYS:HE2	1.76	0.42
1:B:403:SER:O	1:B:404:SER:OG	2.35	0.42
1:G:487:TYR:CD2	1:G:487:TYR:C	2.93	0.42
1:E:514:ILE:O	1:E:514:ILE:HD13	2.20	0.42
1:G:514:ILE:HD13	1:G:514:ILE:O	2.20	0.42
1:E:580:PHE:HZ	1:E:674:LEU:CG	2.33	0.42
1:G:580:PHE:HZ	1:G:674:LEU:CG	2.33	0.42
1:G:349:LEU:HD23	1:G:349:LEU:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:188:GLN:NE2	1:D:188:GLN:H	2.13	0.42
1:E:462:PRO:HA	1:E:463:TYR:C	2.39	0.42
1:E:493:ILE:O	1:E:497:LEU:N	2.43	0.42
1:D:261:LEU:HD21	1:D:311:GLU:HG2	2.00	0.42
1:E:438:PHE:CD1	1:E:438:PHE:O	2.72	0.42
1:E:693:SER:C	1:E:696:ILE:CD1	2.86	0.42
1:G:438:PHE:O	1:G:438:PHE:CD1	2.72	0.42
1:G:441:TYR:CE2	1:G:445:MET:SD	3.12	0.42
1:E:657:ALA:C	1:E:660:ILE:HD13	2.36	0.42
1:E:657:ALA:HA	1:E:660:ILE:HD12	1.77	0.42
1:G:656:LYS:CA	1:G:659:PHE:HB3	2.49	0.42
1:E:354:GLN:CD	1:E:354:GLN:N	2.73	0.42
1:E:383:ASP:HB3	1:E:384:LEU:CA	2.48	0.42
1:D:494:GLN:O	1:D:498:GLN:N	2.34	0.42
1:G:434:PHE:CE1	1:G:555:TYR:CD1	3.02	0.42
1:B:136:LEU:N	1:B:136:LEU:HD23	2.21	0.42
1:D:516:PHE:CE2	1:D:554:TYR:CE2	3.07	0.42
1:E:295:ALA:HA	1:E:301:ASN:HD21	1.84	0.42
1:D:421:LEU:C	1:D:421:LEU:CD2	2.88	0.42
1:E:426:TRP:CD1	1:E:430:VAL:HG12	2.48	0.42
1:E:568:MET:CB	1:E:689:ILE:HD13	2.37	0.42
1:E:668:ILE:CG1	1:E:669:LEU:N	2.82	0.42
1:G:679:ILE:HA	1:G:682:MET:HG3	2.01	0.42
2:F:22:UNK:O	2:F:24:UNK:N	2.53	0.42
1:E:357:ILE:N	1:E:366:SER:HG	1.97	0.42
1:E:242:ARG:CB	1:E:243:PRO:HA	2.50	0.42
1:G:453:TYR:CE2	1:G:454:TYR:CZ	3.01	0.42
1:G:136:LEU:CD2	1:G:136:LEU:H	2.19	0.42
1:G:760:UNK:CA	1:G:761:UNK:CB	2.86	0.42
1:B:306:THR:O	1:B:351:TYR:OH	2.33	0.42
1:G:142:ARG:NE	1:G:183:THR:HG21	2.34	0.42
1:D:142:ARG:C	1:D:144:THR:H	2.22	0.42
1:B:237:LYS:HB2	1:B:237:LYS:HE3	1.66	0.42
1:B:421:LEU:CD2	1:B:421:LEU:C	2.88	0.42
1:G:638:PHE:C	1:G:641:THR:HG22	2.41	0.42
1:B:656:LYS:C	1:B:660:ILE:HD12	2.32	0.42
2:C:22:UNK:O	2:C:24:UNK:N	2.53	0.42
1:B:349:LEU:O	1:B:349:LEU:HD23	2.20	0.42
1:D:354:GLN:N	1:D:354:GLN:CD	2.73	0.42
1:G:350:ALA:HB2	1:G:414:LEU:HD21	2.00	0.42
1:D:452:ALA:C	1:B:597:THR:HB	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:276:ASP:OD1	1:B:276:ASP:C	2.59	0.42
1:B:441:TYR:CE2	1:B:445:MET:SD	3.12	0.42
1:E:421:LEU:CD2	1:E:421:LEU:C	2.88	0.42
1:E:638:PHE:C	1:E:641:THR:HG22	2.41	0.42
2:H:15:UNK:C	2:H:16:UNK:O	2.68	0.42
1:D:371:GLU:O	1:D:372:TRP:CD1	2.71	0.42
1:B:354:GLN:CD	1:B:354:GLN:N	2.73	0.42
1:G:354:GLN:N	1:G:354:GLN:CD	2.73	0.42
1:G:242:ARG:CB	1:G:243:PRO:HA	2.50	0.42
1:D:487:TYR:C	1:D:487:TYR:CD2	2.93	0.42
1:D:276:ASP:C	1:D:276:ASP:OD1	2.58	0.42
1:B:568:MET:CB	1:B:689:ILE:HD13	2.37	0.41
1:D:668:ILE:CG1	1:D:669:LEU:N	2.82	0.41
2:F:15:UNK:C	2:F:16:UNK:O	2.68	0.41
2:C:15:UNK:C	2:C:16:UNK:O	2.68	0.41
1:D:448:PHE:CD1	1:D:545:LEU:HG	2.54	0.41
1:E:434:PHE:CE1	1:E:555:TYR:CD1	3.02	0.41
1:B:452:ALA:C	1:E:597:THR:HB	2.40	0.41
1:B:413:LEU:C	1:B:413:LEU:CD1	2.86	0.41
1:G:295:ALA:HA	1:G:301:ASN:HD21	1.84	0.41
1:E:662:LEU:HA	1:E:662:LEU:HD23	1.81	0.41
1:D:584:TYR:O	1:D:588:LEU:HB3	2.19	0.41
1:D:675:LEU:HD13	1:D:675:LEU:HA	1.81	0.41
1:D:514:ILE:O	1:D:514:ILE:HD13	2.20	0.41
1:G:586:VAL:CG1	1:G:587:PHE:N	2.82	0.41
1:D:353:LEU:HB2	1:D:354:GLN:OE1	2.19	0.41
1:D:383:ASP:HB3	1:D:384:LEU:CA	2.48	0.41
1:G:384:LEU:HD23	1:G:386:CYS:SG	2.61	0.41
1:D:158:LEU:C	1:D:158:LEU:CD2	2.89	0.41
1:G:560:GLN:HA	1:G:697:TRP:CG	2.52	0.41
1:D:240:LYS:N	1:D:242:ARG:N	2.66	0.41
1:B:514:ILE:HD13	1:B:514:ILE:O	2.20	0.41
2:C:9:UNK:CB	2:C:13:UNK:CB	2.98	0.41
1:B:471:ASP:O	1:B:475:VAL:HG21	2.16	0.41
1:E:516:PHE:O	1:E:520:SER:OG	2.39	0.41
1:B:158:LEU:CD2	1:B:158:LEU:C	2.89	0.41
1:B:295:ALA:HB3	1:B:345:LYS:HD2	2.03	0.41
1:D:679:ILE:HA	1:D:682:MET:HG3	2.01	0.41
1:E:549:TRP:CE3	1:E:549:TRP:HA	2.55	0.41
1:D:374:TYR:C	1:D:376:PRO:HD2	2.41	0.41
1:B:546:ALA:HB2	1:E:594:ALA:CB	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:384:LEU:HD22	1:B:387:ILE:H	1.72	0.41
1:E:384:LEU:HD23	1:E:386:CYS:SG	2.61	0.41
1:E:577:LEU:CD1	1:E:577:LEU:C	2.86	0.41
1:D:295:ALA:HB3	1:D:345:LYS:HD2	2.03	0.41
1:B:762:UNK:O	1:E:212:ARG:NH2	2.54	0.41
1:E:276:ASP:C	1:E:276:ASP:OD1	2.59	0.41
1:B:426:TRP:N	1:B:430:VAL:HG23	2.36	0.41
1:B:693:SER:N	1:B:696:ILE:CG1	2.81	0.41
1:D:668:ILE:HD12	1:D:669:LEU:HA	2.03	0.41
1:E:679:ILE:HA	1:E:682:MET:HG3	2.01	0.41
1:G:668:ILE:HD12	1:G:669:LEU:HA	2.03	0.41
1:G:672:ILE:CA	1:G:676:ASN:ND2	2.82	0.41
1:B:375:GLY:CA	1:E:210:GLU:CA	2.91	0.41
1:B:384:LEU:HD23	1:B:386:CYS:SG	2.61	0.41
1:D:384:LEU:HD23	1:D:386:CYS:SG	2.61	0.41
1:E:710:LYS:CE	1:E:710:LYS:CA	2.86	0.41
1:G:713:LEU:HA	1:G:713:LEU:HD13	1.86	0.41
1:E:668:ILE:HD12	1:E:669:LEU:HA	2.03	0.41
1:G:435:TYR:O	1:G:439:PHE:HD1	2.03	0.41
2:A:22:UNK:O	2:A:24:UNK:N	2.53	0.41
2:F:9:UNK:CB	2:F:13:UNK:CB	2.99	0.41
1:G:655:PHE:HD1	2:H:11:UNK:CA	2.22	0.41
1:D:542:VAL:CG2	1:B:598:LEU:HD23	2.41	0.41
1:E:448:PHE:CD1	1:E:448:PHE:O	2.70	0.41
1:E:488:PHE:HB2	1:E:520:SER:CB	2.45	0.41
1:G:516:PHE:CE2	1:G:554:TYR:CE2	3.07	0.41
1:G:158:LEU:CD2	1:G:158:LEU:C	2.89	0.41
1:B:581:MET:SD	1:B:581:MET:O	2.79	0.41
1:D:549:TRP:HA	1:D:549:TRP:CE3	2.55	0.41
1:G:549:TRP:CE3	1:G:549:TRP:HA	2.55	0.41
1:G:584:TYR:O	1:G:588:LEU:HB3	2.20	0.41
1:D:210:GLU:CG	1:G:374:TYR:CA	2.86	0.41
1:E:654:ASP:C	1:E:655:PHE:CD2	2.94	0.41
1:G:654:ASP:C	1:G:655:PHE:CD2	2.94	0.41
1:D:598:LEU:HD23	1:G:542:VAL:CG2	2.43	0.41
1:E:384:LEU:HD22	1:E:387:ILE:H	1.72	0.41
1:D:349:LEU:O	1:D:349:LEU:HD23	2.20	0.41
1:B:640:PHE:CD1	1:B:667:VAL:HG22	2.55	0.41
1:D:142:ARG:NE	1:D:183:THR:HG21	2.34	0.41
1:B:668:ILE:HD12	1:B:669:LEU:HA	2.03	0.41
1:D:435:TYR:O	1:D:439:PHE:HD1	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:442:CYS:CB	1:D:552:MET:HE2	2.51	0.41
1:E:426:TRP:N	1:E:430:VAL:HG23	2.36	0.41
1:E:441:TYR:CE2	1:E:445:MET:SD	3.12	0.41
1:E:669:LEU:C	1:E:669:LEU:CD1	2.85	0.41
1:B:654:ASP:C	1:B:655:PHE:CD2	2.94	0.41
1:B:657:ALA:HA	1:B:660:ILE:HD12	1.77	0.41
2:H:22:UNK:O	2:H:24:UNK:N	2.53	0.41
1:D:580:PHE:HZ	1:D:674:LEU:CG	2.33	0.41
1:B:542:VAL:CG2	1:E:598:LEU:HD23	2.39	0.41
1:E:349:LEU:HD23	1:E:349:LEU:O	2.20	0.41
1:E:448:PHE:CZ	1:E:544:SER:OG	2.59	0.41
1:D:640:PHE:CD1	1:D:667:VAL:HG22	2.55	0.41
1:D:453:TYR:CE1	1:B:596:VAL:CG1	2.97	0.41
1:E:158:LEU:CD2	1:E:158:LEU:C	2.89	0.41
1:D:403:SER:O	1:D:404:SER:OG	2.34	0.41
1:E:581:MET:SD	1:E:581:MET:O	2.79	0.41
1:B:442:CYS:CB	1:B:552:MET:HE2	2.51	0.41
1:B:549:TRP:HA	1:B:549:TRP:CE3	2.55	0.41
1:D:638:PHE:C	1:D:641:THR:HG22	2.41	0.41
1:B:439:PHE:HA	1:B:442:CYS:SG	2.61	0.41
1:E:565:TYR:O	1:G:677:MET:HE1	2.19	0.41
1:G:439:PHE:HA	1:G:442:CYS:SG	2.61	0.41
1:G:588:LEU:HD12	1:G:588:LEU:O	2.21	0.41
2:H:4:UNK:HA	2:H:16:UNK:SG	2.61	0.41
2:H:9:UNK:CB	2:H:13:UNK:CB	2.99	0.41
1:E:374:TYR:C	1:E:376:PRO:HD2	2.41	0.41
1:B:242:ARG:CB	1:B:243:PRO:HA	2.50	0.41
1:E:640:PHE:CD1	1:E:667:VAL:HG22	2.55	0.41
1:G:488:PHE:HB2	1:G:520:SER:CB	2.45	0.41
1:G:516:PHE:O	1:G:520:SER:OG	2.39	0.41
1:D:180:ALA:O	1:D:184:ASP:N	2.54	0.41
1:E:588:LEU:HD12	1:E:588:LEU:O	2.21	0.41
1:D:188:GLN:N	1:D:188:GLN:HE21	2.17	0.41
1:G:276:ASP:OD1	1:G:276:ASP:C	2.59	0.41
1:G:581:MET:O	1:G:581:MET:SD	2.79	0.41
1:D:664:LEU:O	1:D:668:ILE:CG1	2.69	0.41
1:B:514:ILE:CD1	1:B:514:ILE:C	2.86	0.41
1:B:239:THR:CB	1:B:241:GLY:HA2	2.51	0.41
1:G:455:ARG:NH2	1:G:538:VAL:HG21	2.22	0.41
1:G:180:ALA:O	1:G:184:ASP:N	2.54	0.41
1:G:166:HIS:CG	1:G:166:HIS:O	2.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:435:TYR:O	1:B:439:PHE:HD1	2.03	0.40
1:B:638:PHE:C	1:B:641:THR:HG22	2.41	0.40
1:B:664:LEU:O	1:B:668:ILE:CG1	2.69	0.40
1:D:426:TRP:N	1:D:430:VAL:HG23	2.36	0.40
1:D:439:PHE:HA	1:D:442:CYS:SG	2.61	0.40
1:E:439:PHE:HA	1:E:442:CYS:SG	2.61	0.40
1:E:696:ILE:HG13	1:E:696:ILE:H	1.57	0.40
1:G:421:LEU:CD2	1:G:425:LYS:HZ2	2.34	0.40
1:G:675:LEU:HA	1:G:675:LEU:HD13	1.81	0.40
1:G:374:TYR:C	1:G:376:PRO:HD2	2.41	0.40
2:A:4:UNK:HA	2:A:16:UNK:SG	2.61	0.40
1:D:654:ASP:C	1:D:655:PHE:CD2	2.94	0.40
1:E:647:LEU:HD12	1:E:647:LEU:HA	1.81	0.40
1:D:488:PHE:HB2	1:D:520:SER:CB	2.45	0.40
1:E:603:LYS:HE2	1:E:603:LYS:HB3	1.94	0.40
1:B:166:HIS:CG	1:B:166:HIS:O	2.74	0.40
1:E:435:TYR:O	1:E:439:PHE:HD1	2.03	0.40
1:E:693:SER:O	1:E:696:ILE:CD1	2.70	0.40
1:G:442:CYS:CB	1:G:552:MET:HE2	2.51	0.40
1:D:710:LYS:HA	1:D:710:LYS:HZ1	1.81	0.40
1:D:455:ARG:NH2	1:D:538:VAL:HG21	2.22	0.40
1:G:577:LEU:C	1:G:577:LEU:CD1	2.86	0.40
1:E:166:HIS:CG	1:E:166:HIS:O	2.74	0.40
1:D:581:MET:SD	1:D:581:MET:O	2.79	0.40
1:B:441:TYR:CG	1:B:555:TYR:HE2	2.40	0.40
1:D:242:ARG:CB	1:D:243:PRO:HA	2.50	0.40
1:E:349:LEU:CD2	1:E:349:LEU:C	2.90	0.40
1:E:755:UNK:O	1:G:243:PRO:HD2	2.21	0.40
1:G:474:ARG:HG3	1:G:475:VAL:H	1.86	0.40
1:B:516:PHE:O	1:B:520:SER:OG	2.39	0.40
1:G:662:LEU:HD23	1:G:662:LEU:HA	1.81	0.40
1:D:166:HIS:CG	1:D:166:HIS:O	2.74	0.40
1:B:568:MET:HE3	1:B:689:ILE:CD1	2.51	0.40
1:B:426:TRP:CE3	1:B:701:ARG:NH1	2.80	0.40
1:E:426:TRP:CE3	1:E:701:ARG:NH1	2.80	0.40
1:G:677:MET:O	1:G:681:LEU:CD1	2.70	0.40
2:A:9:UNK:CB	2:A:13:UNK:CB	2.98	0.40
1:D:657:ALA:HA	1:D:660:ILE:HD12	1.77	0.40
1:D:376:PRO:HD3	1:B:254:LEU:HD11	2.03	0.40
1:B:359:GLU:CD	1:B:360:PRO:HD3	2.35	0.40
1:G:599:ILE:HD13	1:G:599:ILE:O	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:368:LYS:C	1:G:369:PHE:CD1	2.95	0.40
1:E:368:LYS:C	1:E:369:PHE:CD1	2.95	0.40
1:B:599:ILE:O	1:B:599:ILE:HD13	2.22	0.40
1:D:471:ASP:O	1:D:475:VAL:HG21	2.16	0.40
1:B:453:TYR:CE1	1:E:596:VAL:CG1	2.97	0.40
1:E:125:ASN:HD22	1:E:128:GLU:HG2	1.86	0.40
1:B:662:LEU:HA	1:B:662:LEU:HD23	1.81	0.40
1:E:762:UNK:O	1:G:212:ARG:NH2	2.55	0.40
1:B:677:MET:O	1:B:681:LEU:CD1	2.70	0.40
1:B:686:VAL:HA	1:B:689:ILE:HG21	1.97	0.40
1:B:568:MET:N	1:B:689:ILE:HD12	2.36	0.40
1:B:693:SER:C	1:B:696:ILE:CD1	2.86	0.40
1:B:693:SER:O	1:B:696:ILE:CD1	2.70	0.40
1:D:588:LEU:O	1:D:588:LEU:HD12	2.21	0.40
1:E:442:CYS:CB	1:E:552:MET:HE2	2.52	0.40
1:G:664:LEU:O	1:G:668:ILE:CG1	2.69	0.40
1:D:243:PRO:HD2	1:G:755:UNK:C	2.36	0.40
1:B:631:TYR:OH	1:E:661:ILE:CD1	2.70	0.40
1:G:571:LYS:HE2	1:G:575:ARG:HH11	1.78	0.40
1:B:448:PHE:O	1:B:448:PHE:CD1	2.70	0.40
1:E:136:LEU:N	1:E:136:LEU:HD23	2.21	0.40
1:G:284:GLY:HA3	1:G:331:ARG:H	1.87	0.40
1:E:284:GLY:HA3	1:E:331:ARG:H	1.87	0.40
1:E:158:LEU:CD2	1:E:162:MET:HE2	2.52	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all 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	B	577/598 (96%)	537 (93%)	37 (6%)	3 (0%)	34 77

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	D	577/598 (96%)	537 (93%)	37 (6%)	3 (0%)	34 77
1	E	577/598 (96%)	537 (93%)	37 (6%)	3 (0%)	34 77
1	G	577/598 (96%)	537 (93%)	37 (6%)	3 (0%)	34 77
All	All	2308/2392 (96%)	2148 (93%)	148 (6%)	12 (0%)	38 77

All (12) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	D	406	THR
1	D	461	PRO
1	B	406	THR
1	B	461	PRO
1	E	406	THR
1	E	461	PRO
1	G	406	THR
1	G	461	PRO
1	D	599	ILE
1	B	599	ILE
1	E	599	ILE
1	G	599	ILE

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all 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	B	418/519 (80%)	299 (72%)	119 (28%)	0 4
1	D	418/519 (80%)	299 (72%)	119 (28%)	0 4
1	E	418/519 (80%)	299 (72%)	119 (28%)	0 4
1	G	418/519 (80%)	299 (72%)	119 (28%)	0 4
All	All	1672/2076 (80%)	1196 (72%)	476 (28%)	2 4

All (476) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	D	116	SER
1	D	123	GLN
1	D	128	GLU
1	D	131	SER
1	D	136	LEU
1	D	138	ARG
1	D	147	GLU
1	D	152	GLU
1	D	157	CYS
1	D	158	LEU
1	D	171	ASP
1	D	172	THR
1	D	176	LEU
1	D	187	LYS
1	D	188	GLN
1	D	190	VAL
1	D	218	THR
1	D	220	LEU
1	D	227	VAL
1	D	240	LYS
1	D	242	ARG
1	D	245	PHE
1	D	252	LEU
1	D	261	LEU
1	D	271	SER
1	D	283	VAL
1	D	287	VAL
1	D	294	VAL
1	D	304	PHE
1	D	306	THR
1	D	315	LEU
1	D	319	LEU
1	D	325	LEU
1	D	331	ARG
1	D	332	LYS
1	D	339	LEU
1	D	346	ILE
1	D	354	GLN
1	D	359	GLU
1	D	362	CYS
1	D	366	SER
1	D	367	ARG
1	D	369	PHE

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Mol	Chain	Res	Type
1	D	372	TRP
1	D	381	LEU
1	D	384	LEU
1	D	386	CYS
1	D	393	ASN
1	D	399	ILE
1	D	402	SER
1	D	403	SER
1	D	404	SER
1	D	423	GLN
1	D	429	PHE
1	D	436	PHE
1	D	438	PHE
1	D	445	MET
1	D	446	ILE
1	D	448	PHE
1	D	454	TYR
1	D	455	ARG
1	D	473	PHE
1	D	474	ARG
1	D	496	PHE
1	D	498	GLN
1	D	499	ARG
1	D	512	SER
1	D	514	ILE
1	D	515	LEU
1	D	517	PHE
1	D	520	SER
1	D	521	LEU
1	D	534	ARG
1	D	545	LEU
1	D	547	MET
1	D	549	TRP
1	D	552	MET
1	D	553	LEU
1	D	554	TYR
1	D	557	ARG
1	D	559	PHE
1	D	560	GLN
1	D	565	TYR
1	D	572	MET
1	D	573	ILE

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Mol	Chain	Res	Type
1	D	575	ARG
1	D	579	ARG
1	D	588	LEU
1	D	598	LEU
1	D	599	ILE
1	D	600	GLU
1	D	603	LYS
1	D	633	THR
1	D	634	CYS
1	D	635	LEU
1	D	639	LYS
1	D	641	THR
1	D	647	LEU
1	D	648	GLU
1	D	650	THR
1	D	651	GLU
1	D	652	ASN
1	D	655	PHE
1	D	660	ILE
1	D	662	LEU
1	D	668	ILE
1	D	669	LEU
1	D	674	LEU
1	D	675	LEU
1	D	678	LEU
1	D	681	LEU
1	D	682	MET
1	D	687	ASN
1	D	688	LYS
1	D	689	ILE
1	D	694	LYS
1	D	699	LEU
1	D	710	LYS
1	D	713	LEU
1	B	116	SER
1	B	123	GLN
1	B	128	GLU
1	B	131	SER
1	B	136	LEU
1	B	138	ARG
1	B	147	GLU
1	B	152	GLU

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Mol	Chain	Res	Type
1	B	157	CYS
1	B	158	LEU
1	B	171	ASP
1	B	172	THR
1	B	176	LEU
1	B	187	LYS
1	B	188	GLN
1	B	190	VAL
1	B	218	THR
1	B	220	LEU
1	B	227	VAL
1	B	240	LYS
1	B	242	ARG
1	B	245	PHE
1	B	252	LEU
1	B	261	LEU
1	B	271	SER
1	B	283	VAL
1	B	287	VAL
1	B	294	VAL
1	B	304	PHE
1	B	306	THR
1	B	315	LEU
1	B	319	LEU
1	B	325	LEU
1	B	331	ARG
1	B	332	LYS
1	B	339	LEU
1	B	346	ILE
1	B	354	GLN
1	B	359	GLU
1	B	362	CYS
1	B	366	SER
1	B	367	ARG
1	B	369	PHE
1	B	372	TRP
1	B	381	LEU
1	B	384	LEU
1	B	386	CYS
1	B	393	ASN
1	B	399	ILE
1	B	402	SER

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Mol	Chain	Res	Type
1	B	403	SER
1	B	404	SER
1	B	423	GLN
1	B	429	PHE
1	B	436	PHE
1	B	438	PHE
1	B	445	MET
1	B	446	ILE
1	B	448	PHE
1	B	454	TYR
1	B	455	ARG
1	B	473	PHE
1	B	474	ARG
1	B	496	PHE
1	B	498	GLN
1	B	499	ARG
1	B	512	SER
1	B	514	ILE
1	B	515	LEU
1	B	517	PHE
1	B	520	SER
1	B	521	LEU
1	B	534	ARG
1	B	545	LEU
1	B	547	MET
1	B	549	TRP
1	B	552	MET
1	B	553	LEU
1	B	554	TYR
1	B	557	ARG
1	B	559	PHE
1	B	560	GLN
1	B	565	TYR
1	B	572	MET
1	B	573	ILE
1	B	575	ARG
1	B	579	ARG
1	B	588	LEU
1	B	598	LEU
1	B	599	ILE
1	B	600	GLU
1	B	603	LYS

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Mol	Chain	Res	Type
1	B	633	THR
1	B	634	CYS
1	B	635	LEU
1	B	639	LYS
1	B	641	THR
1	B	647	LEU
1	B	648	GLU
1	B	650	THR
1	B	651	GLU
1	B	652	ASN
1	B	655	PHE
1	B	660	ILE
1	B	662	LEU
1	B	668	ILE
1	B	669	LEU
1	B	674	LEU
1	B	675	LEU
1	B	678	LEU
1	B	681	LEU
1	B	682	MET
1	B	687	ASN
1	B	688	LYS
1	B	689	ILE
1	B	694	LYS
1	B	699	LEU
1	B	710	LYS
1	B	713	LEU
1	E	116	SER
1	E	123	GLN
1	E	128	GLU
1	E	131	SER
1	E	136	LEU
1	E	138	ARG
1	E	147	GLU
1	E	152	GLU
1	E	157	CYS
1	E	158	LEU
1	E	171	ASP
1	E	172	THR
1	E	176	LEU
1	E	187	LYS
1	E	188	GLN

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Mol	Chain	Res	Type
1	E	190	VAL
1	E	218	THR
1	E	220	LEU
1	E	227	VAL
1	E	240	LYS
1	E	242	ARG
1	E	245	PHE
1	E	252	LEU
1	E	261	LEU
1	E	271	SER
1	E	283	VAL
1	E	287	VAL
1	E	294	VAL
1	E	304	PHE
1	E	306	THR
1	E	315	LEU
1	E	319	LEU
1	E	325	LEU
1	E	331	ARG
1	E	332	LYS
1	E	339	LEU
1	E	346	ILE
1	E	354	GLN
1	E	359	GLU
1	E	362	CYS
1	E	366	SER
1	E	367	ARG
1	E	369	PHE
1	E	372	TRP
1	E	381	LEU
1	E	384	LEU
1	E	386	CYS
1	E	393	ASN
1	E	399	ILE
1	E	402	SER
1	E	403	SER
1	E	404	SER
1	E	423	GLN
1	E	429	PHE
1	E	436	PHE
1	E	438	PHE
1	E	445	MET

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Mol	Chain	Res	Type
1	E	446	ILE
1	E	448	PHE
1	E	454	TYR
1	E	455	ARG
1	E	473	PHE
1	E	474	ARG
1	E	496	PHE
1	E	498	GLN
1	E	499	ARG
1	E	512	SER
1	E	514	ILE
1	E	515	LEU
1	E	517	PHE
1	E	520	SER
1	E	521	LEU
1	E	534	ARG
1	E	545	LEU
1	E	547	MET
1	E	549	TRP
1	E	552	MET
1	E	553	LEU
1	E	554	TYR
1	E	557	ARG
1	E	559	PHE
1	E	560	GLN
1	E	565	TYR
1	E	572	MET
1	E	573	ILE
1	E	575	ARG
1	E	579	ARG
1	E	588	LEU
1	E	598	LEU
1	E	599	ILE
1	E	600	GLU
1	E	603	LYS
1	E	633	THR
1	E	634	CYS
1	E	635	LEU
1	E	639	LYS
1	E	641	THR
1	E	647	LEU
1	E	648	GLU

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Mol	Chain	Res	Type
1	E	650	THR
1	E	651	GLU
1	E	652	ASN
1	E	655	PHE
1	E	660	ILE
1	E	662	LEU
1	E	668	ILE
1	E	669	LEU
1	E	674	LEU
1	E	675	LEU
1	E	678	LEU
1	E	681	LEU
1	E	682	MET
1	E	687	ASN
1	E	688	LYS
1	E	689	ILE
1	E	694	LYS
1	E	699	LEU
1	E	710	LYS
1	E	713	LEU
1	G	116	SER
1	G	123	GLN
1	G	128	GLU
1	G	131	SER
1	G	136	LEU
1	G	138	ARG
1	G	147	GLU
1	G	152	GLU
1	G	157	CYS
1	G	158	LEU
1	G	171	ASP
1	G	172	THR
1	G	176	LEU
1	G	187	LYS
1	G	188	GLN
1	G	190	VAL
1	G	218	THR
1	G	220	LEU
1	G	227	VAL
1	G	240	LYS
1	G	242	ARG
1	G	245	PHE

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Mol	Chain	Res	Type
1	G	252	LEU
1	G	261	LEU
1	G	271	SER
1	G	283	VAL
1	G	287	VAL
1	G	294	VAL
1	G	304	PHE
1	G	306	THR
1	G	315	LEU
1	G	319	LEU
1	G	325	LEU
1	G	331	ARG
1	G	332	LYS
1	G	339	LEU
1	G	346	ILE
1	G	354	GLN
1	G	359	GLU
1	G	362	CYS
1	G	366	SER
1	G	367	ARG
1	G	369	PHE
1	G	372	TRP
1	G	381	LEU
1	G	384	LEU
1	G	386	CYS
1	G	393	ASN
1	G	399	ILE
1	G	402	SER
1	G	403	SER
1	G	404	SER
1	G	423	GLN
1	G	429	PHE
1	G	436	PHE
1	G	438	PHE
1	G	445	MET
1	G	446	ILE
1	G	448	PHE
1	G	454	TYR
1	G	455	ARG
1	G	473	PHE
1	G	474	ARG
1	G	496	PHE

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Mol	Chain	Res	Type
1	G	498	GLN
1	G	499	ARG
1	G	512	SER
1	G	514	ILE
1	G	515	LEU
1	G	517	PHE
1	G	520	SER
1	G	521	LEU
1	G	534	ARG
1	G	545	LEU
1	G	547	MET
1	G	549	TRP
1	G	552	MET
1	G	553	LEU
1	G	554	TYR
1	G	557	ARG
1	G	559	PHE
1	G	560	GLN
1	G	565	TYR
1	G	572	MET
1	G	573	ILE
1	G	575	ARG
1	G	579	ARG
1	G	588	LEU
1	G	598	LEU
1	G	599	ILE
1	G	600	GLU
1	G	603	LYS
1	G	633	THR
1	G	634	CYS
1	G	635	LEU
1	G	639	LYS
1	G	641	THR
1	G	647	LEU
1	G	648	GLU
1	G	650	THR
1	G	651	GLU
1	G	652	ASN
1	G	655	PHE
1	G	660	ILE
1	G	662	LEU
1	G	668	ILE

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Mol	Chain	Res	Type
1	G	669	LEU
1	G	674	LEU
1	G	675	LEU
1	G	678	LEU
1	G	681	LEU
1	G	682	MET
1	G	687	ASN
1	G	688	LYS
1	G	689	ILE
1	G	694	LYS
1	G	699	LEU
1	G	710	LYS
1	G	713	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (33) such sidechains are listed below:

Mol	Chain	Res	Type
1	D	125	ASN
1	D	188	GLN
1	D	269	GLN
1	D	289	HIS
1	D	354	GLN
1	D	498	GLN
1	D	676	ASN
1	D	687	ASN
1	B	125	ASN
1	B	188	GLN
1	B	269	GLN
1	B	289	HIS
1	B	354	GLN
1	B	498	GLN
1	B	676	ASN
1	B	687	ASN
1	E	125	ASN
1	E	188	GLN
1	E	269	GLN
1	E	289	HIS
1	E	354	GLN
1	E	498	GLN
1	E	676	ASN
1	E	687	ASN
1	G	125	ASN

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Mol	Chain	Res	Type
1	G	188	GLN
1	G	269	GLN
1	G	289	HIS
1	G	354	GLN
1	G	364	HIS
1	G	498	GLN
1	G	676	ASN
1	G	687	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no carbohydrates in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

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.