Full wwPDB EM Validation Report ⓘ

Nov 22, 2022 – 01:19 AM EST

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 Full wwPDB EM Validation Report for a publicly released PDB entry.

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/EMValidationReportHelp
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

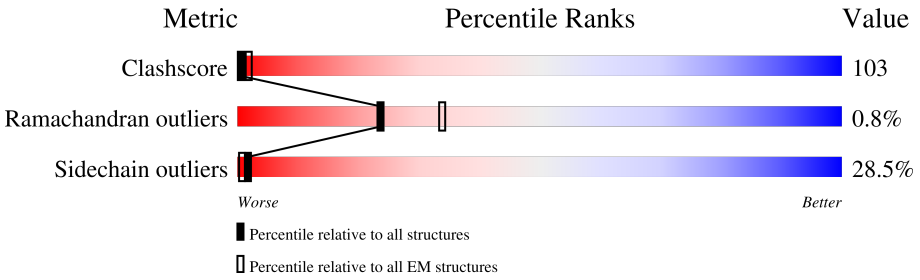
EMDB validation analysis	:	0.0.1.dev43
MolProbity	:	4.02b-467
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ	:	1.9.9
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.31.3

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	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5% The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion < 40%). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	B	628	24% 37% 40% 17% 6%
1	D	628	24% 37% 40% 17% 6%
1	E	628	24% 37% 40% 17% 6%
1	G	628	24% 37% 40% 17% 6%
2	A	31	29% 55% 16%
2	C	31	29% 55% 16%
2	F	31	29% 55% 16%
2	H	31	29% 55% 16%

2 Entry composition (i)

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		

There are 92 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
D	?	-	ASN	deletion	UNP O35433
D	?	-	ASN	deletion	UNP O35433
D	?	-	SER	deletion	UNP O35433
D	?	-	LEU	deletion	UNP O35433
D	?	-	PRO	deletion	UNP O35433
D	?	-	MET	deletion	UNP O35433
D	?	-	GLU	deletion	UNP O35433
D	?	-	SER	deletion	UNP O35433
D	?	-	THR	deletion	UNP O35433
D	?	-	PRO	deletion	UNP O35433
D	?	-	HIS	deletion	UNP O35433
D	?	-	LYS	deletion	UNP O35433
D	?	-	CYS	deletion	UNP O35433
D	?	-	ARG	deletion	UNP O35433
D	?	-	GLY	deletion	UNP O35433
D	?	-	SER	deletion	UNP O35433
D	?	-	ALA	deletion	UNP O35433
D	?	-	CYS	deletion	UNP O35433
D	?	-	LYS	deletion	UNP O35433
D	?	-	PRO	deletion	UNP O35433
D	?	-	GLY	deletion	UNP O35433

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Chain	Residue	Modelled	Actual	Comment	Reference
D	?	-	ASN	deletion	UNP O35433
D	?	-	SER	deletion	UNP O35433
B	?	-	ASN	deletion	UNP O35433
B	?	-	ASN	deletion	UNP O35433
B	?	-	SER	deletion	UNP O35433
B	?	-	LEU	deletion	UNP O35433
B	?	-	PRO	deletion	UNP O35433
B	?	-	MET	deletion	UNP O35433
B	?	-	GLU	deletion	UNP O35433
B	?	-	SER	deletion	UNP O35433
B	?	-	THR	deletion	UNP O35433
B	?	-	PRO	deletion	UNP O35433
B	?	-	HIS	deletion	UNP O35433
B	?	-	LYS	deletion	UNP O35433
B	?	-	CYS	deletion	UNP O35433
B	?	-	ARG	deletion	UNP O35433
B	?	-	GLY	deletion	UNP O35433
B	?	-	SER	deletion	UNP O35433
B	?	-	ALA	deletion	UNP O35433
B	?	-	CYS	deletion	UNP O35433
B	?	-	LYS	deletion	UNP O35433
B	?	-	PRO	deletion	UNP O35433
B	?	-	GLY	deletion	UNP O35433
B	?	-	ASN	deletion	UNP O35433
B	?	-	SER	deletion	UNP O35433
E	?	-	ASN	deletion	UNP O35433
E	?	-	ASN	deletion	UNP O35433
E	?	-	SER	deletion	UNP O35433
E	?	-	LEU	deletion	UNP O35433
E	?	-	PRO	deletion	UNP O35433
E	?	-	MET	deletion	UNP O35433
E	?	-	GLU	deletion	UNP O35433
E	?	-	SER	deletion	UNP O35433
E	?	-	THR	deletion	UNP O35433
E	?	-	PRO	deletion	UNP O35433
E	?	-	HIS	deletion	UNP O35433
E	?	-	LYS	deletion	UNP O35433
E	?	-	CYS	deletion	UNP O35433
E	?	-	ARG	deletion	UNP O35433
E	?	-	GLY	deletion	UNP O35433
E	?	-	SER	deletion	UNP O35433
E	?	-	ALA	deletion	UNP O35433

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Chain	Residue	Modelled	Actual	Comment	Reference
E	?	-	CYS	deletion	UNP O35433
E	?	-	LYS	deletion	UNP O35433
E	?	-	PRO	deletion	UNP O35433
E	?	-	GLY	deletion	UNP O35433
E	?	-	ASN	deletion	UNP O35433
E	?	-	SER	deletion	UNP O35433
G	?	-	ASN	deletion	UNP O35433
G	?	-	ASN	deletion	UNP O35433
G	?	-	SER	deletion	UNP O35433
G	?	-	LEU	deletion	UNP O35433
G	?	-	PRO	deletion	UNP O35433
G	?	-	MET	deletion	UNP O35433
G	?	-	GLU	deletion	UNP O35433
G	?	-	SER	deletion	UNP O35433
G	?	-	THR	deletion	UNP O35433
G	?	-	PRO	deletion	UNP O35433
G	?	-	HIS	deletion	UNP O35433
G	?	-	LYS	deletion	UNP O35433
G	?	-	CYS	deletion	UNP O35433
G	?	-	ARG	deletion	UNP O35433
G	?	-	GLY	deletion	UNP O35433
G	?	-	SER	deletion	UNP O35433
G	?	-	ALA	deletion	UNP O35433
G	?	-	CYS	deletion	UNP O35433
G	?	-	LYS	deletion	UNP O35433
G	?	-	PRO	deletion	UNP O35433
G	?	-	GLY	deletion	UNP O35433
G	?	-	ASN	deletion	UNP O35433
G	?	-	SER	deletion	UNP O35433

- Molecule 2 is a protein called Kappa-theraphotoxin-Cg1a 1.

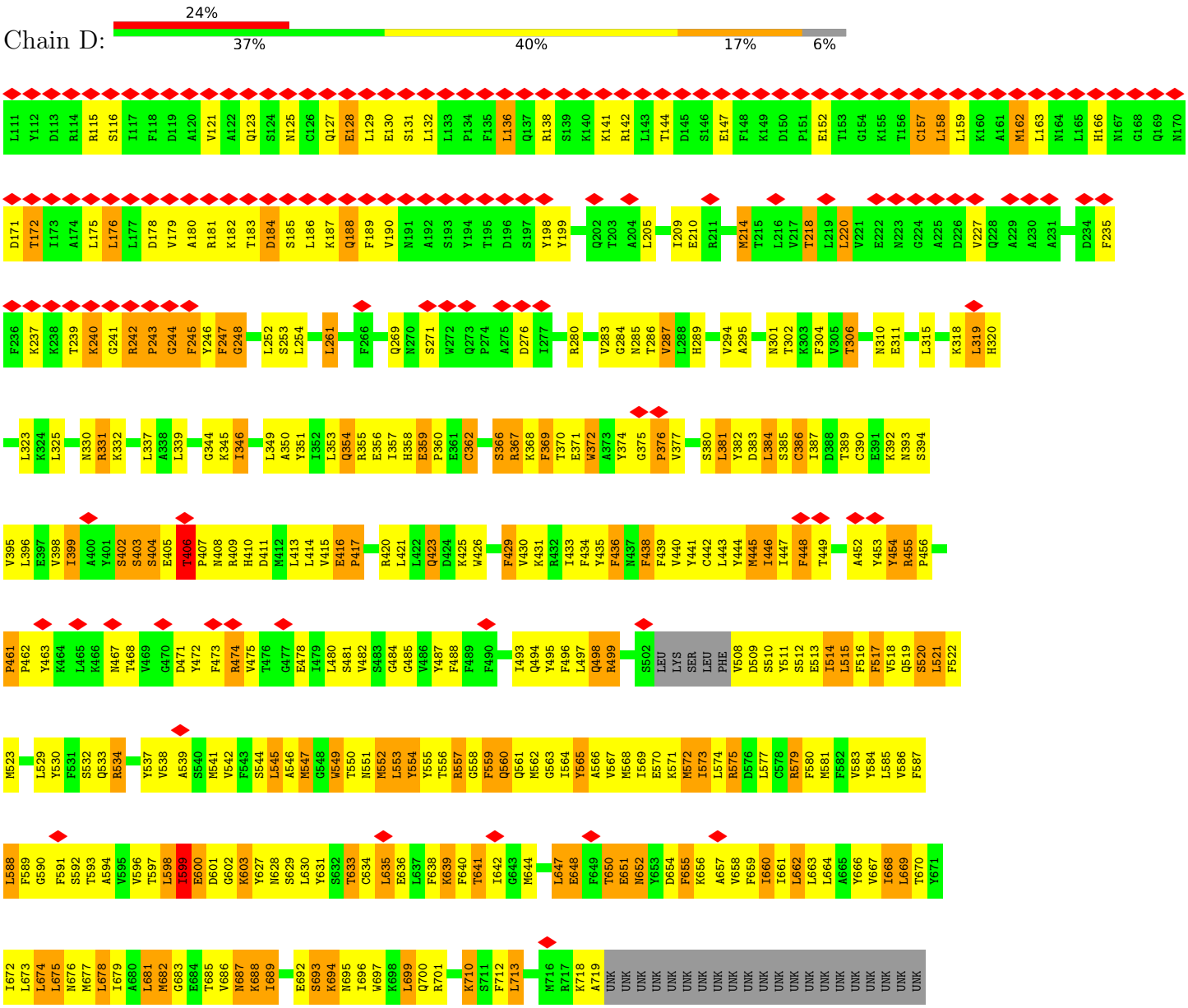
Mol	Chain	Residues	Atoms						AltConf	Trace
2	A	31	Total	C	H	N	O	S	0	0
			230	89	73	31	31	6		
2	C	31	Total	C	H	N	O	S	0	0
			230	89	73	31	31	6		
2	F	31	Total	C	H	N	O	S	0	0
			230	89	73	31	31	6		
2	H	31	Total	C	H	N	O	S	0	0
			230	89	73	31	31	6		

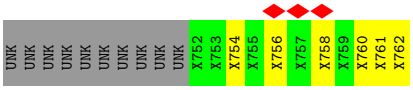
3 Residue-property plots (i)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). 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

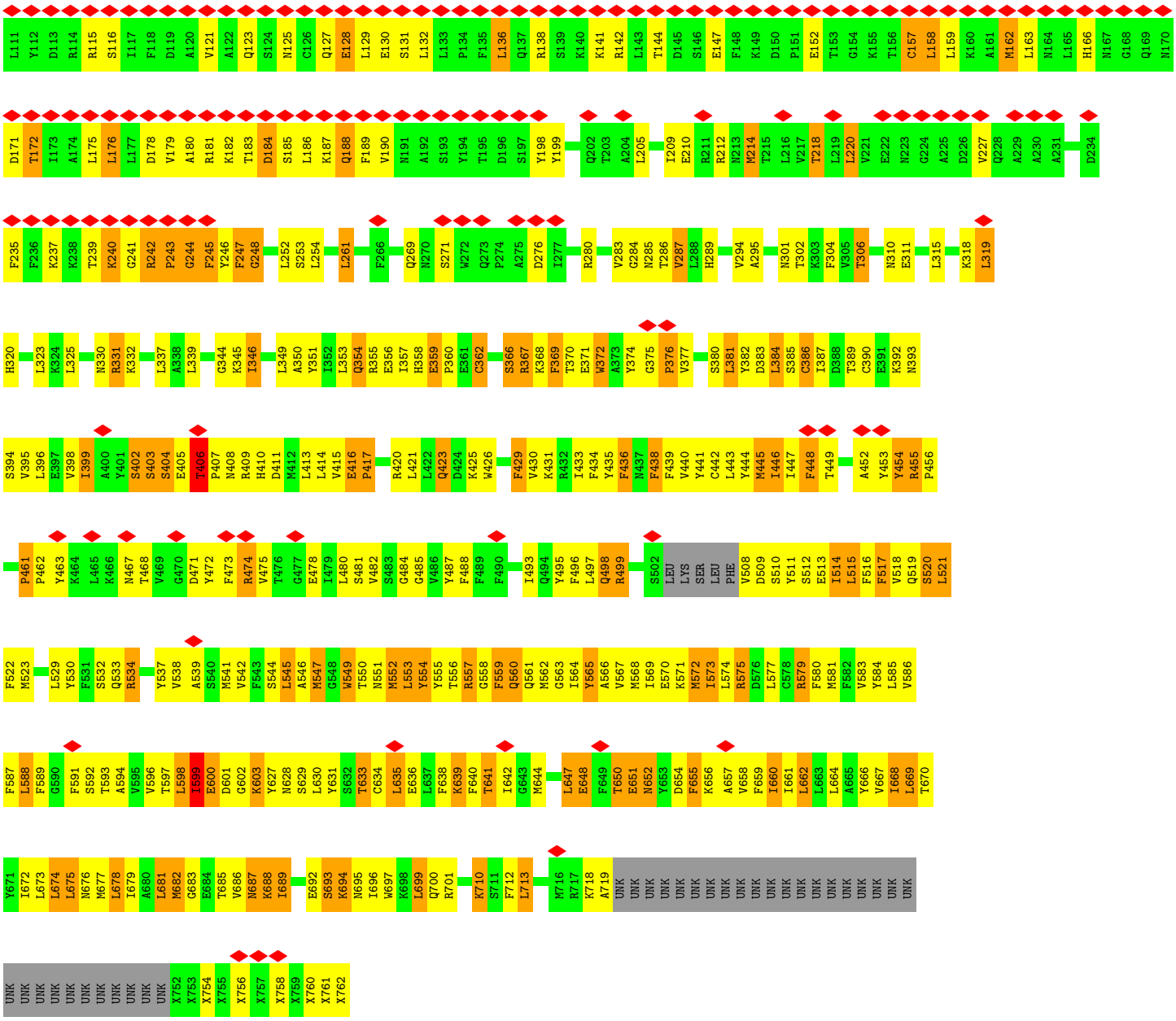
Chain D:





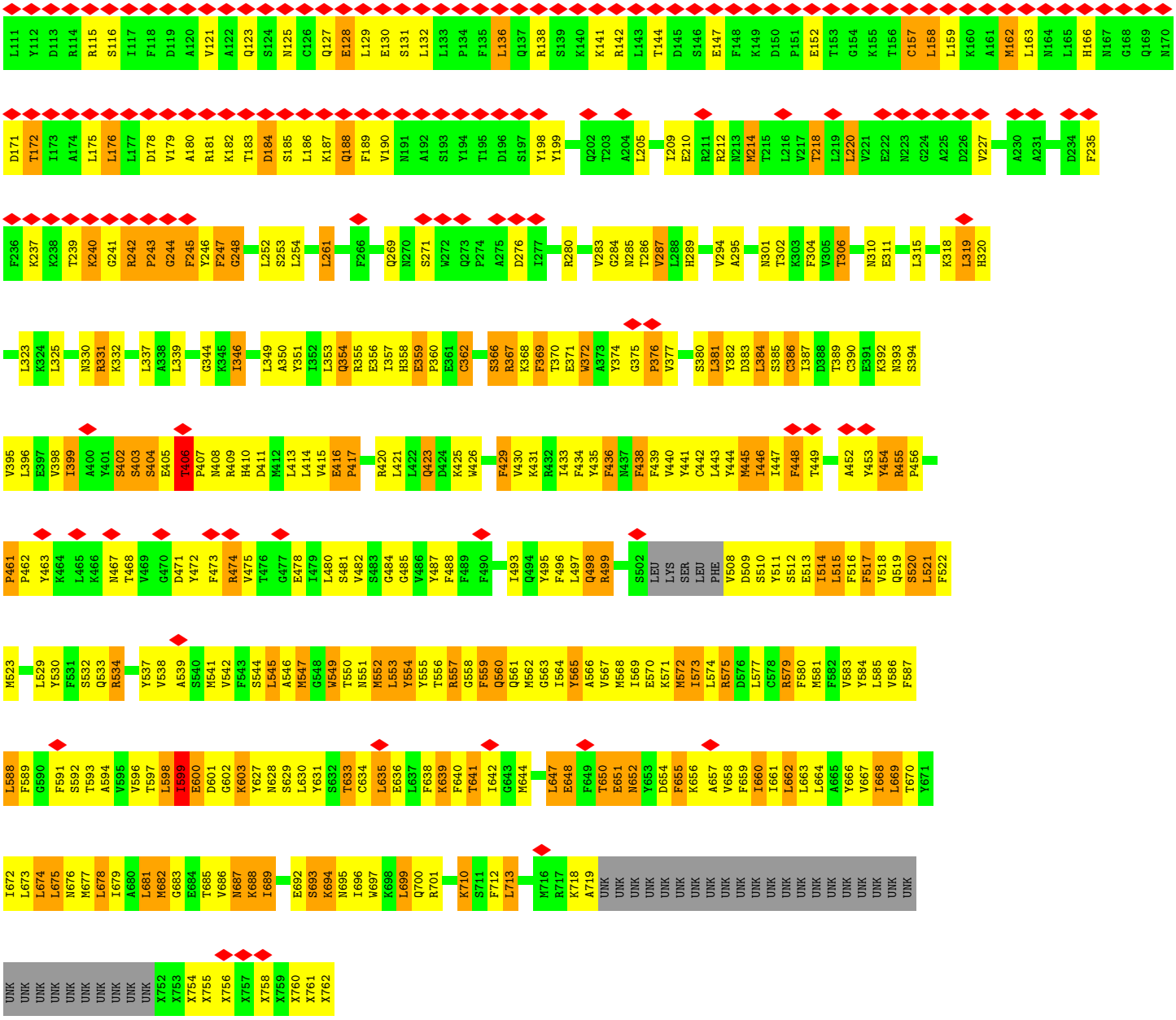
• Molecule 1: Transient receptor potential cation channel subfamily V member 1

Chain B:

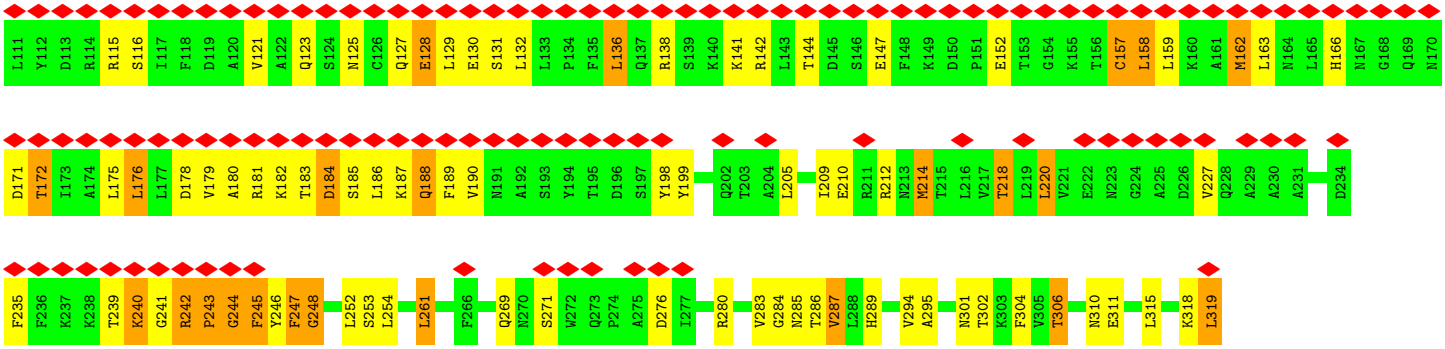


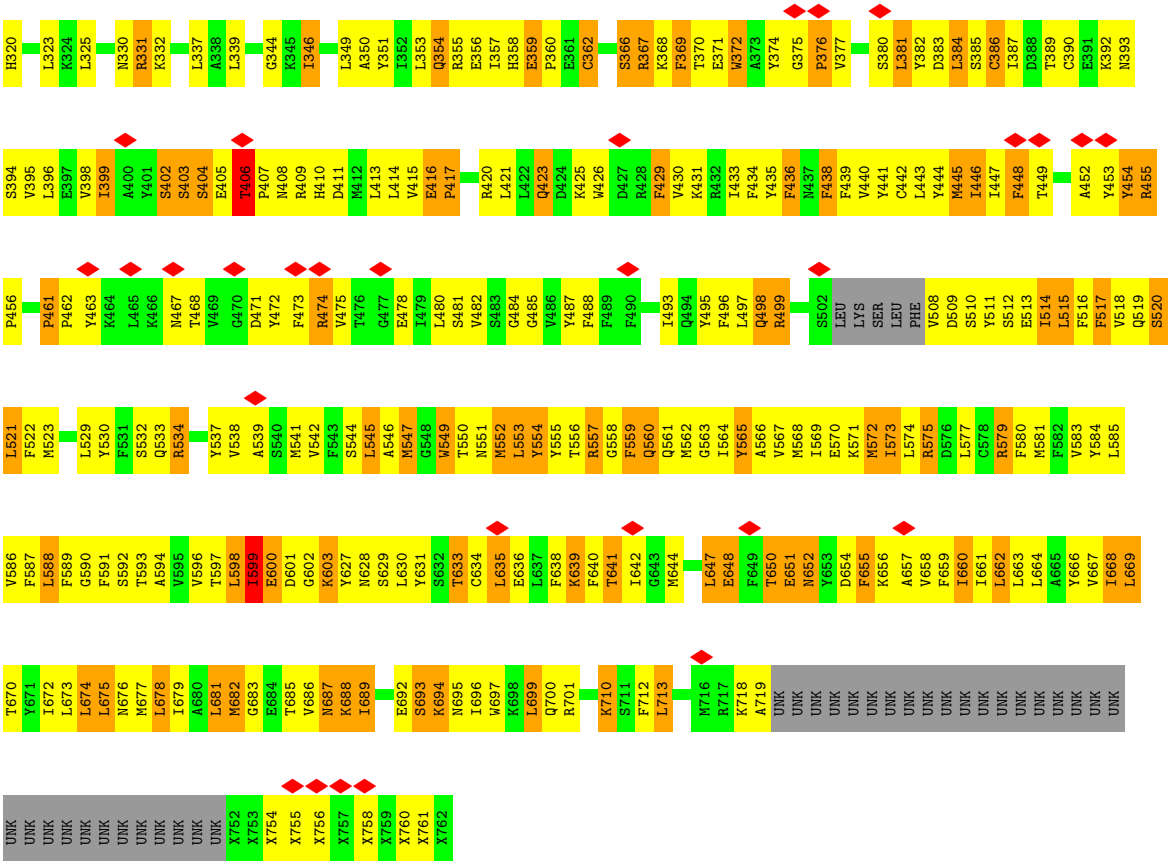
• Molecule 1: Transient receptor potential cation channel subfamily V member 1

Chain E:



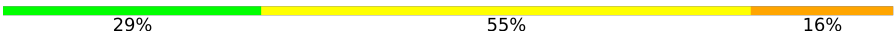
• Molecule 1: Transient receptor potential cation channel subfamily V member 1

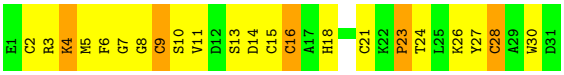




• Molecule 2: Kappa-theraphotoxin-Cg1a 1

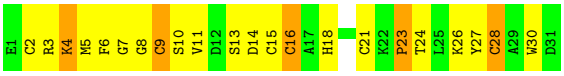
Chain A:





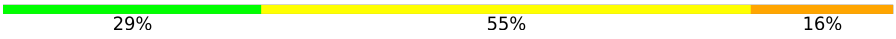
• Molecule 2: Kappa-theraphotoxin-Cg1a 1

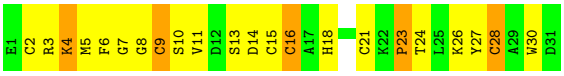
Chain C:



• Molecule 2: Kappa-theraphotoxin-Cg1a 1

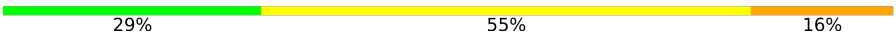
Chain F:

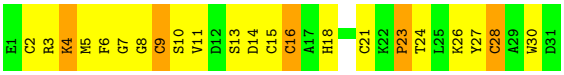




• Molecule 2: Kappa-theraphotoxin-Cg1a 1

Chain H:




E1
C2
R3
K4
M5
F6
G7
G8
C9
S10
V11
D12
S13
D14
C15
C16
A17
H18
C21
K22
P23
T24
L25
K26
Y27
C28
A29
W30
D31

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C4	Depositor
Number of particles used	36158	Depositor
Resolution determination method	FSC 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	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	22.924	Depositor
Minimum map value	-11.828	Depositor
Average map value	0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	7.0	Depositor
Map size (Å)	311.1936, 311.1936, 311.1936	wwPDB
Map dimensions	256, 256, 256	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.2156, 1.2156, 1.2156	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	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
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%)
2	A	0.43	0/156	0.67	1/212 (0.5%)
2	C	0.43	0/156	0.67	1/212 (0.5%)
2	F	0.43	0/156	0.67	1/212 (0.5%)
2	H	0.43	0/156	0.67	1/212 (0.5%)
All	All	0.47	12/18416 (0.1%)	0.64	16/25012 (0.1%)

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

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
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 (16) 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
2	A	23	PRO	N-CA-CB	5.55	109.97	103.30
2	H	23	PRO	N-CA-CB	5.53	109.93	103.30
2	C	23	PRO	N-CA-CB	5.52	109.92	103.30
2	F	23	PRO	N-CA-CB	5.52	109.92	103.30
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

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Mol	Chain	Res	Type	Group
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
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	959	0
1	D	4409	0	4101	971	0
1	E	4409	0	4101	974	0
1	G	4409	0	4101	984	0
2	A	157	73	87	41	0
2	C	157	73	87	40	0
2	F	157	73	87	40	0
2	H	157	73	87	42	0
All	All	18264	292	16752	3601	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 103.

All (3601) 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
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:THR: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:THR: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:THR: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:THR: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:B:758:UNK:CB	1:E:245:PHE:HB2	1.44	1.46
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:375:GLY:N	1:E:210:GLU:HG2	1.27	1.43
1:B:444:TYR:CZ	1:B:484:GLY:CA	1.99	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
1:D:511:TYR:HD1	1:D:570:GLU:CG	1.33	1.42
1:E:657:ALA:O	1:E:661:ILE:CD1	1.67	1.42
1:G:631:TYR:CD2	2:A:24:THR:HA	0.91	1.41
1:G:657:ALA:O	1:G:661:ILE:CD1	1.67	1.41
1:E:375:GLY:N	1:G:210:GLU:HG2	1.28	1.41
1:E:511:TYR:HD1	1:E:570:GLU:CG	1.33	1.41
1:B:631:TYR:CD2	2:F:24:THR: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:D:245:PHE:HB2	1:G:758:UNK:CB	1.49	1.40
1:E:631:TYR:CD2	2:H:24:THR:HA	0.88	1.40
1:D:631:TYR:CD2	2:C:24:THR: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:B:657:ALA:HA	1:B:660:ILE:CD1	1.51	1.38
1:G:444:TYR:OH	1:G:484:GLY:CA	1.70	1.38
1:G:564:ILE:HG12	1:G:693:SER:CB	1.52	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:564:ILE:HG12	1:E:693:SER:CB	1.53	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:THR:CB	1.54	1.37

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:B:511:TYR:CD1	1:B:570:GLU:CG	2.05	1.36
1:E:444:TYR:OH	1:E:484:GLY:CA	1.70	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:580:PHE:CZ	1:D:674:LEU:HD13	1.60	1.35
1:D:631:TYR:HB3	2:C:24:THR:CB	1.55	1.35
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:D:571:LYS:HE3	1:D:575:ARG:NH1	1.37	1.35
1:B:375:GLY:H	1:E:210:GLU:CG	1.38	1.35
1:D:693:SER:CA	1:D:696:ILE:HD11	1.56	1.34
1:D:198:TYR:HD2	1:G:372:TRP:CH2	1.42	1.34
1:G:693:SER:CA	1:G:696:ILE:HD11	1.56	1.34
1:D:375:GLY:H	1:B:210:GLU:CG	1.38	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: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:580:PHE:CZ	1:G:674:LEU:HD13	1.60	1.34
1:G:656:LYS:O	1:G:660:ILE:CD1	1.75	1.34
1:B:580:PHE:CZ	1:B:674:LEU:HD13	1.60	1.34
1:E:521:LEU:HD13	1:E:522:PHE:N	1.38	1.33
1:E:693:SER:CA	1:E:696:ILE:HD11	1.56	1.33
1:D:656:LYS:O	1:D:660:ILE:CD1	1.75	1.33
1:G:631:TYR:HB3	2:A:24:THR: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:THR:CB	1.58	1.32
1:B:693:SER:CA	1:B:696:ILE:HD11	1.56	1.32
1:B:568:MET:HB3	1:B:689:ILE:CD1	1.60	1.31
1:G:443:LEU:CA	1:G:446:ILE:CD1	2.08	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:D:443:LEU:CA	1:D:446:ILE:CD1	2.08	1.30
1:B:685:THR:O	1:B:689:ILE:HG22	1.19	1.30
1:B:591:PHE:CD2	1:B:666:TYR:CD1	2.19	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:D:568:MET:HB3	1:D:689:ILE:CD1	1.60	1.29
1:B:443:LEU:CA	1:B:446:ILE:CD1	2.08	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
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:D:575:ARG:O	1:D:579:ARG:HD3	1.37	1.24
1:B:550:THR:O	1:B:553:LEU:HD23	1.08	1.24
1:E:564:ILE:CG1	1:E:693:SER:HB2	1.68	1.24
1:G:550:THR:O	1:G:553:LEU:HD23	1.08	1.24
1:D:461:PRO:HA	1:D:530:TYR:CE1	1.71	1.23
1:B:564:ILE:CG1	1:B:693:SER:HB2	1.68	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:E:369:PHE:O	1:E:381:LEU:HB2	1.38	1.23
1:G:369:PHE:O	1:G:381:LEU:HB2	1.38	1.23
1:D:359:GLU:OE2	1:D:360:PRO:HD2	1.39	1.22
1:E:591:PHE:CD2	1:E:666:TYR:HD1	1.55	1.22
1:G:591:PHE:CD2	1:G:666:TYR:HD1	1.55	1.22
1:D:369:PHE:O	1:D:381:LEU:HB2	1.38	1.22
1:D:426:TRP:CZ3	1:D:701:ARG:NH1	2.07	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:D:511:TYR:CE2	1:D:515:LEU:HD11	1.74	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:G:426:TRP:CZ3	1:G:701:ARG:NH1	2.07	1.21
1:B:426:TRP:CZ3	1:B:701:ARG:NH1	2.07	1.21
1:D:482:VAL:HA	1:D:523:MET:CE	1.69	1.21
1:B:443:LEU:CA	1:B:446:ILE:HD12	1.70	1.21
1:B:511:TYR:CE2	1:B:515:LEU:HD11	1.74	1.21
1:G:482:VAL:HA	1:G:523:MET:CE	1.69	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
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:591:PHE:CE2	1:D:666:TYR:HB2	1.76	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: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:B:591:PHE:CE2	1:B:666:TYR:HB2	1.76	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: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: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: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:B:369:PHE:O	1:B:381:LEU:HB2	1.38	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:D:425:LYS:O	1:D:429:PHE:CE2	1.96	1.19
1:B:591:PHE:CD2	1:B:666:TYR:HD1	1.55	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:E:672:ILE:O	1:E:676:ASN:ND2	1.75	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:359:GLU:OE2	1:G:360:PRO:HD2	1.39	1.18
1:D:199:TYR:CD1	1:G:372:TRP:CZ3	2.25	1.18
1:G:443:LEU:CA	1:G:446:ILE:HD12	1.70	1.18
1:E:511:TYR:HD1	1:E:570:GLU:HG2	1.06	1.17
1:D:600:GLU:HG2	1:D:628:ASN:OD1	1.43	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:426:TRP:HA	1:D:430:VAL:HG23	1.25	1.17
1:D:443:LEU:CA	1:D:446:ILE:HD12	1.70	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
1:D:372:TRP:CZ3	1:B:199:TYR:CE1	2.03	1.16
1:B:600:GLU:HG2	1:B:628:ASN:OD1	1.43	1.16
1:B:656:LYS:O	1:B:660:ILE:HD13	0.98	1.16
1:E:600:GLU:HG2	1:E:628:ASN:OD1	1.43	1.16
1:B:349:LEU:HD22	1:B:414:LEU:HD23	1.24	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: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:426:TRP:HA	1:G:430:VAL:HG23	1.25	1.16
1:D:550:THR:O	1:D:553:LEU:CD2	1.92	1.16
1:G:591:PHE:CG	1:G:666:TYR:HD1	1.63	1.16
1:E:359:GLU:OE2	1:E:360:PRO:HD2	1.39	1.15
1:E:591:PHE:CG	1:E:666:TYR:HD1	1.63	1.15
1:D:591:PHE:CG	1:D:666:TYR:HD1	1.63	1.15
1:D:656:LYS:O	1:D:660:ILE:HD13	0.98	1.15
1:B:591:PHE:CG	1:B:666:TYR:HD1	1.63	1.15
1:G:482:VAL:CA	1:G:523:MET:HE1	1.76	1.15
1:G:656:LYS:O	1:G:660:ILE:HD13	0.99	1.15
1:B:657:ALA:CA	1:B:660:ILE:CD1	2.13	1.15
1:E:656:LYS:O	1:E:660:ILE:HD13	0.98	1.15
1:G:443:LEU:HA	1:G:446:ILE:HD12	1.16	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:657:ALA:O	1:B:661:ILE:HD12	0.96	1.14
1:B:693:SER:CB	1:B:696:ILE:HD11	1.77	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:G:511:TYR:HD1	1:G:570:GLU:HG2	1.06	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
1:E:444:TYR:CE1	1:E:484:GLY:HA3	1.84	1.13
1:E:571:LYS:HE2	1:E:575:ARG:HG3	1.27	1.13
1:E:657:ALA:CA	1:E:660:ILE:CD1	2.13	1.13
1:G:444:TYR:CE1	1:G:484:GLY:HA3	1.84	1.13
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:D:657:ALA:O	1:D:661:ILE:HD12	0.96	1.12
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:G:369:PHE:O	1:G:381:LEU:CB	1.97	1.12
1:G:584:TYR:OH	1:G:641:THR:HG21	0.95	1.12
1:D:349:LEU:HD22	1:D:414:LEU:HD23	1.24	1.12
1:D:444:TYR:CE1	1:D:484:GLY:HA3	1.84	1.12
1:E:398:VAL:O	1:E:402:SER:OG	1.67	1.12
1:E:758:UNK:CB	1:G:245:PHE:CB	2.26	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: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:G:693:SER:CB	1:G:696:ILE:HD11	1.77	1.12
1:D:337:LEU:HD21	1:D:395:VAL:CB	1.78	1.12
1:B:444:TYR:CE1	1:B:484:GLY:HA3	1.84	1.12
1:E:482:VAL:HA	1:E:523:MET:HE1	1.17	1.12
1:G:571:LYS:HE2	1:G:575:ARG:CG	1.80	1.12
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:G:693:SER:CA	1:G:696:ILE:CD1	2.21	1.11
1:D:398:VAL:O	1:D:402:SER:OG	1.67	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:398:VAL:O	1:G:402:SER:OG	1.67	1.11
1:D:369:PHE:O	1:D:381:LEU:CB	1.97	1.11
1:E:376:PRO:HG2	1:G:247:PHE:CD2	1.85	1.11
1:E:657:ALA:O	1:E:661:ILE:HD12	0.96	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
1:D:534:ARG:O	1:D:537:TYR:HD2	1.32	1.11
1:D:627:TYR:CD2	1:D:633:THR:HG23	1.85	1.11
1:E:571:LYS:HE2	1:E:575:ARG:CG	1.80	1.11
1:D:376:PRO:HG2	1:B:247:PHE:CD2	1.86	1.10
1:B:337:LEU:HD21	1:B:395:VAL:CB	1.78	1.10
1:B:644:MET:SD	1:E:647:LEU:HD22	1.91	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:D:571:LYS:HE2	1:D:575:ARG:CG	1.80	1.10
1:G:571:LYS:HE2	1:G:575:ARG:HG3	1.27	1.10
1:B:369:PHE:O	1:B:381:LEU:CB	1.97	1.10
1:B:398:VAL:O	1:B:402:SER:OG	1.67	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: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:D:639:LYS:HG2	1:B:647:LEU:HD23	1.31	1.10
1:B:534:ARG:O	1:B:537:TYR:HD2	1.32	1.10
1:D:199:TYR:CE1	1:G:372:TRP:CZ3	1.99	1.09
1:B:426:TRP:HA	1:B:430:VAL:HG23	1.25	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:639:LYS:HG2	1:E:647:LEU:HD23	1.31	1.09
1:B:678:LEU:HA	1:B:681:LEU:HD12	1.11	1.09
1:G:353:LEU:O	1:G:367:ARG:HB3	1.52	1.09
1:G:461:PRO:CA	1:G:530:TYR:HE1	1.64	1.09
1:D:353:LEU:HA	1:D:367:ARG:HD3	1.33	1.09
1:D:571:LYS:HE2	1:D:575:ARG:HG3	1.27	1.09
1:B:693:SER:HA	1:B:696:ILE:HG13	1.30	1.09
1:D:245:PHE:CB	1:G:758:UNK:CB	2.29	1.08
1:D:372:TRP:CZ3	1:B:199:TYR:CD1	2.27	1.08
1:B:443:LEU:HA	1:B:446:ILE:HD12	1.16	1.08
1:B:631:TYR:CB	2:F:24:THR:CB	2.31	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:655:PHE:HA	2:C:10:SER:O	1.52	1.08
1:E:449:THR:HA	1:E:545:LEU:HD11	1.10	1.08
1:G:481:SER:O	1:G:523:MET:HE1	1.53	1.08
1:G:655:PHE:HA	2:H:10:SER:O	1.52	1.08
1:G:693:SER:HA	1:G:696:ILE:HG13	1.30	1.08
1:B:461:PRO:CA	1:B:530:TYR:HE1	1.64	1.08
1:E:372:TRP:CZ3	1:G:199:TYR:CD1	2.33	1.08
1:E:655:PHE:HA	2:F:10:SER:O	1.52	1.08
1:D:443:LEU:HA	1:D:446:ILE:HD11	1.13	1.08
1:D:647:LEU:HD22	1:G:644:MET:SD	1.93	1.08
1:B:372:TRP:CZ3	1:E:199:TYR:CD1	2.29	1.08
1:D:655:PHE:HA	2:A:10:SER: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:D:644:MET:SD	1:B:647:LEU:HD22	1.92	1.08
1:E:461:PRO:CA	1:E:530:TYR:HE1	1.64	1.08
1:G:534:ARG:O	1:G:537:TYR:HD2	1.32	1.07
1:E:243:PRO:HB2	1:E:244:GLY:HA3	1.30	1.07
1:G:243:PRO:HB2	1:G:244:GLY:HA3	1.30	1.07
1:D:678:LEU:HA	1:D:681:LEU:HD12	1.11	1.07
1:G:568:MET:HB3	1:G:689:ILE:HD12	1.28	1.07
1:B:651:GLU:O	1:B:652:ASN:ND2	1.88	1.07
1:E:651:GLU:O	1:E:652:ASN:ND2	1.88	1.07
1:E:693:SER:HA	1:E:696:ILE:HG13	1.30	1.07
1:D:638:PHE:CZ	1:B:668:ILE:HG21	1.89	1.06
1:B:353:LEU:HA	1:B:367:ARG:HD3	1.33	1.06
1:B:638:PHE:CZ	1:E:668:ILE:HG21	1.89	1.06
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:B:353:LEU:O	1:B:367:ARG:HB3	1.52	1.06
1:B:693:SER:CA	1:B:696:ILE:CD1	2.21	1.06
1:E:631:TYR:CB	2:H:24:THR:CB	2.33	1.06
1:D:449:THR:HA	1:D:545:LEU:HD11	1.10	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:E:374:TYR:HA	1:G:210:GLU:OE2	1.54	1.06
1:D:425:LYS:O	1:D:430:VAL:HG23	1.56	1.06
1:D:631:TYR:CB	2:C:24:THR:CB	2.33	1.06
1:B:425:LYS:O	1:B:430:VAL:HG23	1.56	1.06
1:G:425:LYS:O	1:G:429:PHE:HE2	1.35	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:678:LEU:HA	1:G:681:LEU:HD12	1.11	1.06
1:D:443:LEU:HA	1:D:446:ILE:HD12	1.16	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:D:664:LEU:O	1:D:668:ILE:HG23	1.56	1.05
1:G:425:LYS:O	1:G:430:VAL:HG23	1.56	1.05
1:D:651:GLU:O	1:D:652:ASN:ND2	1.88	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:E:425:LYS:O	1:E:430:VAL:HG23	1.56	1.05
1:B:384:LEU:CD2	1:B:387:ILE:H	1.70	1.05
1:B:568:MET:CB	1:B:689:ILE:HD12	1.86	1.05
1:G:651:GLU:O	1:G:652:ASN:ND2	1.88	1.05
1:E:639:LYS:HG2	1:G:647:LEU:HD23	1.32	1.04
1:E:678:LEU:HA	1:E:681:LEU:HD12	1.11	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:D:374:TYR:HA	1:B:210:GLU:OE2	1.53	1.04
1:E:568:MET:CB	1:E:689:ILE:HD12	1.86	1.04
1:G:384:LEU:CD2	1:G:387:ILE:H	1.70	1.04
1:G:664:LEU:O	1:G:668:ILE:HG23	1.56	1.04
1:B:481:SER:O	1:B:523:MET:HE1	1.55	1.04
1:E:382:TYR:CE2	1:E:416:GLU:CB	2.40	1.03
1:G:568:MET:CB	1:G:689:ILE:HD12	1.86	1.03
1:G:444:TYR:OH	1:G:484:GLY:N	1.92	1.03
1:D:382:TYR:CE2	1:D:416:GLU:CB	2.40	1.03
1:B:664:LEU:O	1:B:668:ILE:HG23	1.56	1.03
1:D:384:LEU:CD2	1:D:387:ILE:H	1.70	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:G:426:TRP:HA	1:G:430:VAL:CG2	1.89	1.03
1:D:353:LEU:O	1:D:367:ARG:HG2	1.59	1.02
1:D:631:TYR:CG	2:C:24:THR:HA	1.94	1.02
1:G:693:SER:CA	1:G:696:ILE:CG1	2.37	1.02
1:D:357:ILE:N	1:D:366:SER:OG	1.92	1.02
1:D:426:TRP:HA	1:D:430:VAL:CG2	1.89	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:481:SER:O	1:E:523:MET:HE1	1.58	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: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:210:GLU:OE2	1:G:374:TYR:HA	1.60	1.02
1:B:631:TYR:CG	2:F:24:THR:HA	1.92	1.02
1:E:664:LEU:O	1:E:668:ILE:HG23	1.56	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:353:LEU:O	1:E:367:ARG:HG2	1.59	1.01
1:E:357:ILE:N	1:E:366:SER:OG	1.92	1.01
1:B:444:TYR:OH	1:B:484:GLY:N	1.92	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:THR:CB	2.37	1.01
1:B:627:TYR:HD2	1:B:633:THR:HG23	1.24	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:D:444:TYR:CE2	1:D:484:GLY:HA3	1.95	1.01
1:D:571:LYS:CE	1:D:575:ARG:HG3	1.90	1.01
1:B:481:SER:C	1:B:523:MET:CE	2.29	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:G:481:SER:C	1:G:523:MET:CE	2.29	1.01
1:D:560:GLN:O	1:D:564:ILE:HD12	1.60	1.01
1:B:519:GLN:HB2	1:B:547:MET:HG2	1.40	1.01
1:B:571:LYS:CE	1:B:575:ARG:HG3	1.90	1.01
1:E:425:LYS:O	1:E:429:PHE:HE2	1.35	1.01
1:G:357:ILE:N	1:G:366:SER:OG	1.92	1.01
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:444:TYR:CE2	1:B:484:GLY:HA3	1.95	1.00
1:E:678:LEU:HA	1:E:681:LEU:CD1	1.91	1.00
1:D:353:LEU:O	1:D:367:ARG:CB	2.09	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: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: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:B:444:TYR:OH	1:B:484:GLY:HA3	1.44	1.00
1:E:359:GLU:CD	1:E:360:PRO:CD	2.30	1.00
1:E:444:TYR:OH	1:E:484:GLY:N	1.92	1.00
1:E:444:TYR:CE2	1:E:484:GLY:HA3	1.95	1.00
1:E:571:LYS:CE	1:E:575:ARG:HG3	1.90	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: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:D:591:PHE:CD2	1:D:666:TYR:HB2	1.97	0.99
1:E:426:TRP:CG	1:E:430:VAL:HB	1.97	0.99
1:D:426:TRP:CG	1:D:430:VAL:HB	1.97	0.99
1:D:519:GLN:HB2	1:D:547:MET:HG2	1.40	0.99
1:D:678:LEU:HA	1:D:681:LEU:CD1	1.91	0.99
1:B:425:LYS:O	1:B:429:PHE:HE2	1.35	0.99
1:E:542:VAL:HG21	1:G:598:LEU:CG	1.92	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:G:239:THR:OG1	1:G:243:PRO:HB3	1.60	0.99
1:G:426:TRP:CG	1:G:430:VAL:HB	1.97	0.99
1:G:678:LEU:HA	1:G:681:LEU:CD1	1.91	0.99
1:E:519:GLN:HB2	1:E:547:MET:HG2	1.40	0.99
1:E:631:TYR:CG	2:H:24:THR:HA	1.95	0.99
1:G:426:TRP:CD1	1:G:430:VAL:CB	1.98	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
1:B:353:LEU:O	1:B:367:ARG:CB	2.09	0.99
2:F:15:CYS:CB	2:F:28:CYS:SG	2.51	0.99
1:E:461:PRO:HA	1:E:530:TYR:HE1	0.83	0.99
1:G:631:TYR:CG	2:A:24:THR:HA	1.98	0.99
1:B:571:LYS:CE	1:B:575:ARG:NH1	2.25	0.98
1:B:629:SER:O	1:B:633:THR:OG1	1.81	0.98
1:G:571:LYS:CE	1:G:575:ARG:NH1	2.25	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:591:PHE:CD2	1:G:666:TYR:HB2	1.97	0.98
1:D:359:GLU:CD	1:D:360:PRO:CD	2.30	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:G:481:SER:O	1:G:523:MET:CE	2.12	0.98
2:C:15:CYS:CB	2:C:28:CYS:SG	2.51	0.98
1:D:461:PRO:HA	1:D:530:TYR:HE1	0.83	0.98
1:E:198:TYR:CE1	1:E:242:ARG:HD2	1.99	0.98
1:G:367:ARG:HH12	1:G:385:SER:N	1.61	0.98
1:G:519:GLN:HB2	1:G:547:MET:HG2	1.40	0.98
2:H:15:CYS:CB	2:H:28:CYS:SG	2.51	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:367:ARG:NH1	1:D:385:SER:H	1.62	0.97
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:482:VAL:HA	1:D:523:MET:HE1	0.98	0.97
1:G:481:SER:C	1:G:523:MET:HE1	1.85	0.97
1:B:367:ARG:NH1	1:B:385:SER:H	1.62	0.97
1:B:655:PHE:CD1	2:C:11:VAL:CA	2.48	0.97
1:E:449:THR:CA	1:E:545:LEU:HD11	1.95	0.97
1:G:367:ARG:NH1	1:G:385:SER:H	1.62	0.97
1:G:482:VAL:CA	1:G:523:MET:CE	2.39	0.97
2:A:15:CYS:CB	2:A:28:CYS:SG	2.51	0.97
1:B:367:ARG:HH12	1:B:385:SER:N	1.61	0.97
1:E:571:LYS:CE	1:E:575:ARG:HH11	1.77	0.97
1:G:198:TYR:CE1	1:G:242:ARG:HD2	1.99	0.97
1:G:461:PRO:HA	1:G:530:TYR:HE1	0.83	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:D:367:ARG:HH12	1:D:385:SER:N	1.61	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:VAL:CA	2.48	0.97
1:B:443:LEU:HA	1:B:446:ILE:HD13	1.47	0.97
1:B:449:THR:CA	1:B:545:LEU:HD11	1.95	0.97
1:E:443:LEU:C	1:E:446:ILE:HD12	1.83	0.97
1:D:571:LYS:CE	1:D:575:ARG:HH11	1.77	0.97
1:D:629:SER:O	1:D:633:THR:OG1	1.81	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:693:SER:HB2	1:D:696:ILE:HD11	1.45	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:E:481:SER:O	1:E:523:MET:CE	2.12	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
2:A:15:CYS:SG	2:A:28:CYS:SG	1.13	0.96
1:D:529:LEU:HA	1:D:532:SER:OG	1.65	0.96
1:E:511:TYR:CE2	1:E:515:LEU:CD1	2.48	0.96
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:D:426:TRP:CD1	1:D:430:VAL:CB	1.98	0.96
1:B:443:LEU:C	1:B:446:ILE:HD12	1.83	0.96
1:D:655:PHE:CD1	2:A:11:VAL:CA	2.48	0.96
1:B:426:TRP:CD1	1:B:430:VAL:CB	1.98	0.96
1:G:449:THR:HA	1:G:545:LEU:CD1	1.96	0.96
1:E:655:PHE:CD1	2:F:11:VAL: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
2:C:15:CYS:SG	2:C:28:CYS:SG	1.13	0.96
1:B:571:LYS:HE3	1:B:575:ARG:HH11	1.19	0.96
1:D:511:TYR:CE2	1:D:515:LEU:CD1	2.48	0.96
1:B:511:TYR:CE2	1:B:515:LEU:CD1	2.48	0.96
1:G:571:LYS:CE	1:G:575:ARG:HH11	1.77	0.96
1:D:376:PRO:HG2	1:B:247:PHE:HD2	1.26	0.96
1:D:449:THR:HA	1:D:545:LEU:CD1	1.96	0.96
1:E:627:TYR:HD2	1:E:633:THR:HG23	1.24	0.96
1:G:511:TYR:CE2	1:G:515:LEU:CD1	2.48	0.96
1:B:529:LEU:HA	1:B:532:SER:OG	1.65	0.95
1:E:367:ARG:NH1	1:E:385:SER:H	1.62	0.95
1:G:693:SER:HB2	1:G:696:ILE:HD11	1.45	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:G:584:TYR:OH	1:G:641:THR:CB	2.15	0.95
1:D:425:LYS:O	1:D:429:PHE:HE2	1.35	0.95
1:D:449:THR:CA	1:D:545:LEU:HD11	1.95	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:449:THR:HA	1:B:545:LEU:CD1	1.96	0.95
1:B:638:PHE:CZ	1:E:668:ILE:CG2	2.49	0.95
1:D:656:LYS:C	1:D:660:ILE:HD13	1.88	0.94
1:E:482:VAL:CA	1:E:523:MET:CE	2.39	0.94
1:D:635:LEU:CD2	1:B:664:LEU:HD21	1.97	0.94
1:D:655:PHE:O	1:D:659:PHE:N	2.00	0.94
1:G:443:LEU:HA	1:G:446:ILE:HD13	1.47	0.94
2:C:2:CYS:HA	2:C:14:ASP: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:HE21	1:G:498:GLN:HA	1.31	0.94
1:D:444:TYR:OH	1:D:484:GLY:HA3	1.44	0.94
1:E:685:THR:O	1:E:689:ILE:CG2	2.13	0.94
2:A:2:CYS:HA	2:A:14:ASP: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:D:247:PHE:HD2	1:G:376:PRO:HG2	1.29	0.94
1:D:584:TYR:OH	1:D:641:THR:CB	2.15	0.94
1:B:481:SER:C	1:B:523:MET:HE1	1.87	0.94
1:B:534:ARG:O	1:B:537:TYR:CD2	2.20	0.94
1:E:430:VAL:O	1:E:433:ILE:HG22	1.68	0.94
1:G:584:TYR:CZ	1:G:641:THR:HG21	2.02	0.94
1:G:656:LYS:C	1:G:660:ILE:HD13	1.88	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:372:TRP:CH2	1:G:199:TYR:CE1	2.45	0.94
1:E:444:TYR:OH	1:E:484:GLY:HA3	1.44	0.94
2:H:2:CYS:HA	2:H:14:ASP:O	1.67	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
2:H:15:CYS:SG	2:H:28:CYS:SG	1.13	0.93
1:B:580:PHE:CE2	1:B:674:LEU:HD12	2.04	0.93
1:E:572:MET:HB3	1:G:673:LEU:HD11	1.48	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:426:TRP:HD1	1:G:430:VAL:CG1	1.80	0.93
1:G:655:PHE:O	1:G:659:PHE:N	2.00	0.93
2:F:2:CYS:HA	2:F:14:ASP:O	1.67	0.93
1:B:430:VAL:O	1:B:433:ILE:HG22	1.68	0.93
1:B:584:TYR:CZ	1:B:641:THR:HG21	2.02	0.93
1:B:635:LEU:CD2	1:E:664:LEU:HD21	1.98	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
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:B:655:PHE:O	1:B:659:PHE:N	2.00	0.93
1:E:559:PHE:O	1:E:563:GLY:N	2.00	0.93
1:E:656:LYS:C	1:E:660:ILE:HD13	1.88	0.93
1:G:559:PHE:O	1:G:563:GLY:N	2.00	0.93
1:D:498:GLN:HA	1:D:498:GLN:HE21	1.31	0.93
1:D:639:LYS:HD2	1:B:647:LEU:HB3	1.50	0.93
1:E:655:PHE:O	1:E:659:PHE:N	2.00	0.93
1:D:434:PHE:CZ	1:D:555:TYR:O	2.22	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
2:F:15:CYS:SG	2:F:28:CYS:SG	1.13	0.93
1:B:631:TYR:CD2	2:F:24:THR:CA	1.84	0.93
1:E:426:TRP:HD1	1:E:430:VAL:CG1	1.80	0.93
1:D:571:LYS:HE3	1:D:575:ARG:HH11	1.19	0.92
1:D:580:PHE:CE1	1:D:674:LEU:HD13	2.05	0.92
1:G:389:THR:CB	1:G:394:SER:CB	2.47	0.92
1:D:580:PHE:CE2	1:D:674:LEU:HD12	2.04	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:461:PRO:CA	1:D:530:TYR:CE1	2.45	0.92
1:D:521:LEU:CD1	1:D:522:PHE:N	2.32	0.92
1:B:521:LEU:HD13	1:B:522:PHE:H	0.87	0.92
1:B:572:MET:HB3	1:E:673:LEU:HD11	1.50	0.92
1:B:639:LYS:HD2	1:E:647:LEU:HB3	1.48	0.92
1:B:389:THR:CB	1:B:394:SER:CB	2.47	0.92
1:G:521:LEU:CD1	1:G:522:PHE:N	2.32	0.92
1:E:580:PHE:CE2	1:E:674:LEU:HD12	2.04	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:D:198:TYR:CD2	1:G:372:TRP:HZ3	1.87	0.92
1:E:677:MET:O	1:E:681:LEU:HG	1.70	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:389:THR:CB	1:D:394:SER:CB	2.47	0.91
1:D:444:TYR:OH	1:D:481:SER:O	1.88	0.91
1:D:445:MET:HA	1:D:445:MET:HE3	1.52	0.91
1:B:444:TYR:OH	1:B:484:GLY:C	2.09	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:D:542:VAL:HG21	1:B:598:LEU:CG	2.00	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:580:PHE:CE1	1:E:674:LEU:HD13	2.05	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:B:353:LEU:HD22	1:B:386:CYS:SG	2.11	0.91
1:E:444:TYR:OH	1:E:485:GLY:N	2.04	0.91
1:B:425:LYS:O	1:B:430:VAL:CG2	2.18	0.91
1:E:242:ARG:H	1:E:243:PRO:HA	1.34	0.91
1:G:444:TYR:OH	1:G:484:GLY:C	2.09	0.91
1:G:631:TYR:CD2	2:A:24:THR:CA	1.88	0.91
2:A:15:CYS:SG	2:A:28:CYS:CB	2.59	0.91
2:C:15:CYS:SG	2:C:28:CYS:CB	2.59	0.91
1:D:353:LEU:HD22	1:D:386:CYS:SG	2.11	0.91
1:B:444:TYR:OH	1:B:485:GLY:N	2.04	0.91
1:B:570:GLU:O	1:B:574:LEU:HD22	1.71	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:443:LEU:CA	1:B:446:ILE:HD11	1.90	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: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:E:353:LEU:HD22	1:E:386:CYS:SG	2.11	0.91
1:E:635:LEU:CD2	1:G:664:LEU:HD21	2.00	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:444:TYR:OH	1:G:485:GLY:N	2.04	0.91
1:G:571:LYS:HE3	1:G:575:ARG:HH11	1.20	0.91
1:D:638:PHE:CE1	1:B:668:ILE:CG2	2.53	0.90
1:B:482:VAL:CA	1:B:523:MET:CE	2.39	0.90
1:E:444:TYR:OH	1:E:484:GLY:C	2.09	0.90
1:D:631:TYR:CD2	2:C:24:THR:CA	1.86	0.90
1:E:570:GLU:O	1:E:574:LEU:HD22	1.71	0.90
1:G:349:LEU:HD22	1:G:414:LEU:CD2	2.01	0.90
1:G:425:LYS:O	1:G:430:VAL:CG2	2.18	0.90
1:D:696:ILE:HD12	1:D:697:TRP:N	1.85	0.90
1:B:542:VAL:HG11	1:E:598:LEU:HG	1.52	0.90
1:E:444:TYR:OH	1:E:481:SER:O	1.88	0.90
1:E:521:LEU:CD1	1:E:522:PHE:N	2.32	0.90
1:E:631:TYR:CE2	2:H:24:THR:HA	1.99	0.90
1:E:542:VAL:HG11	1:G:598:LEU:HG	1.51	0.90
1:G:677:MET:O	1:G:681:LEU:HG	1.70	0.90
1:D:425:LYS:O	1:D:430:VAL:CG2	2.18	0.90
1:D:521:LEU:HD13	1:D:522:PHE:H	0.87	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:444:TYR:OH	1:D:484:GLY:C	2.09	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:G:580:PHE:CE1	1:G:674:LEU:HD13	2.04	0.90
1:B:349:LEU:HD22	1:B:414:LEU:CD2	2.01	0.90
1:B:568:MET:HE2	1:B:689:ILE:HD13	1.53	0.90
1:D:542:VAL:HG11	1:B:598:LEU:HG	1.54	0.90
1:E:481:SER:C	1:E:523:MET:HE3	1.90	0.90
1:D:242:ARG:H	1:D:243:PRO:HA	1.34	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
2:F:15:CYS:SG	2:F:28:CYS: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:HG2	1:D:499:ARG:HH11	1.38	0.89
1:D:349:LEU:HD22	1:D:414:LEU:CD2	2.01	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:384:LEU:HD21	1:D:387:ILE:CB	2.03	0.89
2:H:15:CYS:SG	2:H:28:CYS:CB	2.59	0.89
1:D:425:LYS:O	1:D:429:PHE:CD2	2.25	0.89
1:B:445:MET:HE3	1:B:445:MET:HA	1.53	0.89
1:D:627:TYR:HD2	1:D:633:THR:CG2	1.86	0.89
1:E:384:LEU:HD21	1:E:387:ILE:CB	2.03	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:D:471:ASP:O	1:D:475:VAL:HG23	1.73	0.89
1:D:647:LEU:HB3	1:G:639:LYS:HD2	1.53	0.89
1:B:384:LEU:HD21	1:B:387:ILE:CB	2.03	0.89
1:E:580:PHE:CZ	1:E:674:LEU:HD12	2.07	0.89
1:G:564:ILE:HG12	1:G:693:SER:HB2	0.90	0.89
1:G:656:LYS:C	1:G:660:ILE:CD1	2.41	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:D:668:ILE:CG2	1:G:638:PHE:CZ	2.55	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:560:GLN:HA	1:B:697:TRP:CD1	2.07	0.89
1:B:580:PHE:CZ	1:B:674:LEU:HD12	2.07	0.89
1:B:627:TYR:HD2	1:B:633:THR:CG2	1.86	0.89
1:D:564:ILE:HG12	1:D:693:SER:HB2	0.90	0.89
1:D:570:GLU:O	1:D:574:LEU:HD22	1.71	0.89
1:D:596:VAL:HG11	1:G:453:TYR:CE1	2.08	0.89
1:D:668:ILE:CG2	1:G:638:PHE:CE1	2.56	0.89
1:B:359:GLU:O	1:B:362:CYS:HB3	1.73	0.89
1:B:696:ILE:HD12	1:B:697:TRP:H	1.38	0.89
1:G:529:LEU:O	1:G:533:GLN:N	2.06	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:THR:HA	2.01	0.88
1:D:642:ILE:HD11	1:B:668:ILE:HG22	1.53	0.88
1:B:359:GLU:H	1:B:362:CYS:CB	1.85	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:B:678:LEU:CA	1:B:681:LEU:HD12	2.03	0.88
1:E:696:ILE:HD12	1:E:697:TRP:H	1.38	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:B:461:PRO:CA	1:B:530:TYR:CE1	2.45	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:D:668:ILE:HG22	1:G:642:ILE:HD11	1.55	0.88
1:B:242:ARG:H	1:B:243:PRO:HA	1.34	0.88
1:B:350:ALA:HB2	1:B:414:LEU:HD11	1.56	0.88
1:E:375:GLY:N	1:G:210:GLU:CG	2.16	0.88
1:E:511:TYR:O	1:E:514:ILE:CG2	2.22	0.88
1:G:356:GLU:HA	1:G:366:SER:OG	1.74	0.88
1:B:511:TYR:O	1:B:514:ILE:CG2	2.22	0.88
1:G:384:LEU:HD21	1:G:387:ILE:H	1.38	0.88
1:G:570:GLU:O	1:G:574:LEU:HD22	1.71	0.88
1:D:350:ALA:HB2	1:D:414:LEU:HD11	1.56	0.88
1:B:529:LEU:O	1:B:533:GLN:N	2.06	0.88
1:E:627:TYR:HD2	1:E:633:THR:CG2	1.86	0.88
1:E:635:LEU:HD21	1:G:664:LEU:HD21	1.56	0.88
1:E:638:PHE:CE1	1:G:668:ILE:CG2	2.58	0.87
1:D:529:LEU:O	1:D:533:GLN:N	2.06	0.87
1:E:356:GLU:HA	1:E:366:SER:OG	1.74	0.87
1:E:471:ASP:O	1:E:475:VAL:HG23	1.73	0.87
1:G:580:PHE:CZ	1:G:674:LEU:HD12	2.07	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:E:359:GLU:O	1:E:362:CYS:HB3	1.73	0.87
1:G:511:TYR:O	1:G:514:ILE:CG2	2.22	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:D:710:LYS:HA	1:D:710:LYS:CE	2.05	0.87
1:G:655:PHE:CE1	2:H:11:VAL:CA	2.58	0.87
1:G:710:LYS:HA	1:G:710:LYS:CE	2.05	0.87
1:D:438:PHE:O	1:D:442:CYS:SG	2.33	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:D:657:ALA:C	1:D:660:ILE:HD11	1.94	0.87
1:B:384:LEU:HD21	1:B:387:ILE:H	1.38	0.87
1:G:481:SER:C	1:G:523:MET:HE3	1.95	0.87
1:G:499:ARG:HG2	1:G:499:ARG:HH11	1.38	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:696:ILE:HD12	1:G:697:TRP:H	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:VAL:CA	2.58	0.87
1:E:529:LEU:O	1:E:533:GLN:N	2.06	0.87
1:E:542:VAL:HG21	1:G:598:LEU:HD23	1.56	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:D:136:LEU:HD23	1:D:136:LEU:H	1.41	0.86
1:D:356:GLU:HA	1:D:366:SER:OG	1.74	0.86
1:B:356:GLU:HA	1:B:366:SER:OG	1.74	0.86
1:B:710:LYS:CE	1:B:710:LYS:HA	2.05	0.86
1:G:438:PHE:O	1:G:442:CYS:SG	2.33	0.86
1:D:482:VAL:N	1:D:523:MET:CE	2.38	0.86
1:D:589:PHE:O	1:D:593:THR:HG23	1.75	0.86
1:D:664:LEU:HD21	1:G:635:LEU:HD21	1.56	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:B:521:LEU:HD11	1:B:522:PHE:HD2	1.40	0.86
1:B:591:PHE:CE2	1:B:666:TYR:CB	2.59	0.86
1:B:657:ALA:C	1:B:660:ILE:HD11	1.94	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:E:655:PHE:CE1	2:F:11:VAL:CA	2.58	0.86
1:G:521:LEU:HD11	1:G:522:PHE:HD2	1.40	0.86
1:E:482:VAL:N	1:E:523:MET:CE	2.39	0.86
1:G:136:LEU:HD23	1:G:136:LEU:H	1.41	0.86
1:G:482:VAL:HA	1:G:523:MET:HE2	1.53	0.86
1:G:482:VAL:N	1:G:523:MET:CE	2.38	0.86
1:D:598:LEU:HG	1:G:542:VAL:HG21	1.55	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:E:499:ARG:HG2	1:E:499:ARG:HH11	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
1:D:374:TYR:CA	1:B:210:GLU:OE2	2.23	0.86
1:B:655:PHE:CE1	2:C:11:VAL:CA	2.58	0.86
1:E:591:PHE:CE2	1:E:666:TYR:CB	2.59	0.86
2:A:9:CYS:SG	2:A:21:CYS:SG	2.74	0.86
1:D:375:GLY:CA	1:B:210:GLU:HA	2.06	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:B:600:GLU:OE2	1:B:601:ASP:N	2.09	0.86
1:G:591:PHE:CE2	1:G:666:TYR:CB	2.59	0.86
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:E:678:LEU:CA	1:E:681:LEU:HD12	2.03	0.85
1:G:455:ARG:HH21	1:G:538:VAL:HG21	1.40	0.85
1:G:568:MET:HE2	1:G:689:ILE:HD13	1.55	0.85
1:B:426:TRP:CD1	1:B:430:VAL:CG1	2.58	0.85
1:B:478:GLU:O	1:B:482:VAL:HG23	1.76	0.85
1:E:478:GLU:O	1:E:482:VAL:HG23	1.76	0.85
1:G:657:ALA:C	1:G:660:ILE:HD11	1.94	0.85
2:C:9:CYS:SG	2:C:21:CYS:SG	2.74	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:HA	1:E:710:LYS:CE	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:D:546:ALA:O	1:D:550:THR:HG23	1.77	0.85
1:D:598:LEU:HG	1:G:542:VAL:HG11	1.59	0.85
1:B:656:LYS:C	1:B:660:ILE:CD1	2.41	0.85
1:G:693:SER:CA	1:G:696:ILE:HG13	2.03	0.85
1:D:210:GLU:HG2	1:G:375:GLY:H	0.69	0.85
1:E:589:PHE:O	1:E:593:THR:HG23	1.75	0.85
1:G:239:THR:OG1	1:G:241:GLY:HA2	1.77	0.85
1:G:478:GLU:O	1:G:482:VAL:HG23	1.76	0.85
1:E:426:TRP:CD1	1:E:430:VAL:CG1	2.58	0.85
1:E:453:TYR:CE1	1:G:596:VAL:HG11	2.11	0.85
1:E:546:ALA:O	1:E:550:THR:HG23	1.77	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:121:VAL:HG22	1:E:172:THR:HG21	1.57	0.85
1:E:376:PRO:CG	1:G:247:PHE:CD2	2.60	0.85
1:G:443:LEU:O	1:G:447:ILE:HD13	1.77	0.85
1:G:546:ALA:O	1:G:550:THR:HG23	1.77	0.85
1:D:521:LEU:HD11	1:D:522:PHE:HD2	1.40	0.85
1:B:443:LEU:O	1:B:447:ILE:HD13	1.77	0.85
1:G:121:VAL:HG22	1:G:172:THR:HG21	1.57	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:572:MET:CE	1:D:685:THR:OG1	2.24	0.84
1:B:136:LEU:HD23	1:B:136:LEU:H	1.41	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:D:121:VAL:HG22	1:D:172:THR:HG21	1.57	0.84
1:D:443:LEU:CA	1:D:446:ILE:HD11	1.90	0.84
1:D:443:LEU:O	1:D:446:ILE:HD12	1.77	0.84
2:F:9:CYS:SG	2:F:21:CYS:SG	2.74	0.84
2:H:9:CYS:SG	2:H:21:CYS:SG	2.74	0.84
1:B:443:LEU:O	1:B:446:ILE:HD12	1.76	0.84
1:B:542:VAL:HG21	1:E:598:LEU:HG	1.59	0.84
1:E:239:THR:OG1	1:E:241:GLY:HA2	1.77	0.84
1:E:600:GLU:OE2	1:E:601:ASP:N	2.09	0.84
1:D:455:ARG:HH21	1:D:538:VAL:HG21	1.40	0.84
1:D:600:GLU:OE2	1:D:601:ASP:N	2.09	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:E:127:GLN:O	1:E:130:GLU:HG3	1.78	0.84
1:E:511:TYR:CE1	1:E:570:GLU:CG	2.46	0.84
1:G:426:TRP:CD1	1:G:430:VAL:CG1	2.58	0.84
1:D:239:THR:CB	1:D:243:PRO:HB3	2.06	0.84
1:B:455:ARG:HH21	1:B:538:VAL:HG21	1.40	0.84
1:E:239:THR:CB	1:E:243:PRO:HB3	2.06	0.84
1:E:384:LEU:HD21	1:E:387:ILE:H	1.38	0.84
1:E:511:TYR:O	1:E:514:ILE:HG22	1.78	0.84
1:D:239:THR:OG1	1:D:241:GLY:HA2	1.77	0.84
1:D:591:PHE:CE2	1:D:666:TYR:CB	2.59	0.84
1:B:121:VAL:HG22	1:B:172:THR:HG21	1.57	0.84
1:B:546:ALA:O	1:B:550:THR:HG23	1.77	0.84
1:G:443:LEU:CA	1:G:446:ILE:HD11	1.90	0.84
1:G:571:LYS:HE3	1:G:575:ARG:HH12	1.43	0.84
1:E:542:VAL:CG1	1:G:598:LEU:HG	2.07	0.84
1:E:482:VAL:HA	1:E:523:MET:HE2	1.59	0.84
1:G:678:LEU:CA	1:G:681:LEU:HD12	2.03	0.84
1:D:358:HIS:HA	1:D:362:CYS:SG	2.18	0.84
1:D:678:LEU:CA	1:D:681:LEU:HD12	2.03	0.84
1:B:239:THR:CB	1:B:243:PRO:HB3	2.06	0.84
1:B:375:GLY:CA	1:E:210:GLU:HA	2.07	0.84
1:B:639:LYS:CD	1:E:647:LEU:HB3	2.07	0.84
1:E:358:HIS:HA	1:E:362:CYS:SG	2.18	0.84
1:G:243:PRO:HB2	1:G:244:GLY:CA	2.08	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:239:THR:OG1	1:B:241:GLY:HA2	1.77	0.84
1:B:358:HIS:HA	1:B:362:CYS:SG	2.18	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:D:431:LYS:O	1:D:435:TYR:HD2	1.61	0.83
1:B:693:SER:CA	1:B:696:ILE:HG13	2.03	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:D:243:PRO:HB2	1:D:244:GLY:CA	2.08	0.83
1:B:434:PHE:HZ	1:B:555:TYR:O	1.61	0.83
1:E:434:PHE:HZ	1:E:555:TYR:O	1.61	0.83
1:E:136:LEU:H	1:E:136:LEU:HD23	1.41	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:D:375:GLY:N	1:B:210:GLU:CG	2.13	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:E:693:SER:CA	1:E:696:ILE:HG13	2.03	0.83
1:G:358:HIS:HA	1:G:362:CYS:SG	2.18	0.83
1:D:639:LYS:CD	1:B:647:LEU:HB3	2.09	0.83
1:E:374:TYR:CA	1:G:210:GLU:OE2	2.26	0.83
1:D:382:TYR:CD2	1:D:416:GLU:CB	2.62	0.83
1:D:443:LEU:O	1:D:447:ILE:HD13	1.77	0.83
1:B:583:VAL:O	1:B:586:VAL:HG12	1.79	0.83
1:E:453:TYR:CD1	1:G:596:VAL:HG11	2.12	0.83
1:E:572:MET:HB2	1:G:673:LEU:HD11	1.57	0.83
1:E:639:LYS:CD	1:G:647:LEU:HB3	2.06	0.83
1:G:660:ILE:HD13	1:G:660:ILE:H	1.41	0.83
1:D:127:GLN:O	1:D:130:GLU:HG3	1.78	0.83
1:B:482:VAL:N	1:B:523:MET:HE1	1.94	0.83
1:E:243:PRO:HB2	1:E:244:GLY:CA	2.08	0.83
1:E:382:TYR:CD2	1:E:416:GLU:CB	2.62	0.83
1:E:678:LEU:HD11	1:E:682:MET:CE	2.09	0.83
1:D:583:VAL:O	1:D:586:VAL:HG12	1.79	0.83
1:G:511:TYR:O	1:G:514:ILE:HG22	1.78	0.83
1:D:542:VAL:HG21	1:B:598:LEU:HG	1.59	0.83
1:E:542:VAL:CG2	1:G:598:LEU:HG	2.09	0.83
1:E:660:ILE:HD13	1:E:660:ILE:H	1.41	0.83
1:D:210:GLU:HA	1:G:375:GLY:CA	2.08	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:596:VAL:HG11	1:G:453:TYR:CD1	2.13	0.82
1:E:638:PHE:CE1	1:G:668:ILE:HG21	2.14	0.82
1:B:376:PRO:CG	1:E:247:PHE:CD2	2.62	0.82
1:E:353:LEU:HA	1:E:367:ARG:CD	2.09	0.82
1:G:583:VAL:O	1:G:586:VAL:HG12	1.79	0.82
1:G:678:LEU:HD11	1:G:682:MET:CE	2.09	0.82
1:B:511:TYR:O	1:B:514:ILE:HG22	1.78	0.82
1:D:511:TYR:O	1:D:514:ILE:HG22	1.78	0.82
1:D:564:ILE:CG1	1:D:693:SER:CB	2.42	0.82
1:B:382:TYR:CD2	1:B:416:GLU:CB	2.62	0.82
1:E:678:LEU:HD11	1:E:682:MET:HE2	1.61	0.82
1:D:453:TYR:CE1	1:B:596:VAL:HG11	2.14	0.82
1:D:542:VAL:HG21	1:B:598:LEU:HD23	1.62	0.82
1:D:559:PHE:CA	1:D:697:TRP:HE1	1.93	0.82
1:B:353:LEU:HA	1:B:367:ARG:CD	2.09	0.82
1:E:559:PHE:CA	1:E:697:TRP:HE1	1.93	0.82
1:B:127:GLN:O	1:B:130:GLU:HG3	1.78	0.82
1:D:353:LEU:HA	1:D:367:ARG:CD	2.09	0.82
1:D:638:PHE:HZ	1:B:668:ILE:HG21	1.42	0.82
1:B:453:TYR:CE1	1:E:596:VAL:HG11	2.15	0.82
1:G:353:LEU:HA	1:G:367:ARG:CD	2.09	0.82
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: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:678:LEU:HD11	1:D:682:MET:CE	2.09	0.81
1:B:521:LEU:CD1	1:B:522:PHE:H	1.82	0.81
1:B:564:ILE:O	1:B:689:ILE:HD11	1.81	0.81
1:B:678:LEU:HD11	1:B:682:MET:CE	2.09	0.81
1:E:631:TYR:CD2	2:H:23:PRO:O	2.33	0.81
1:D:374:TYR:C	1:B:210:GLU:HG2	2.01	0.81
1:D:669:LEU:O	1:D:669:LEU:HD12	1.80	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:G:559:PHE:CA	1:G:697:TRP:HE1	1.93	0.81
1:B:426:TRP:CA	1:B:430:VAL:HG23	2.09	0.81
1:B:631:TYR:CE2	2:F:24:THR:HA	2.02	0.81
1:E:359:GLU:CG	1:E:360:PRO:HD2	2.11	0.81
1:E:669:LEU:HD12	1:E:669:LEU:O	1.80	0.81
1:G:686:VAL:O	1:G:689:ILE:HG23	1.81	0.81
1:E:375:GLY:CA	1:G:210:GLU:HA	2.11	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:669:LEU:HD12	1:G:669:LEU:O	1.80	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
2:F:9:CYS:HB2	2:F:21:CYS:SG	2.21	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:B:669:LEU:HD12	1:B:669:LEU:O	1.80	0.81
1:E:571:LYS:HE3	1:E:575:ARG:HH12	1.43	0.80
2:A:9:CYS:HB2	2:A:21:CYS:SG	2.21	0.80
1:D:672:ILE:HG22	1:D:673:LEU:HD22	1.64	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: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
2:C:9:CYS:HB2	2:C:21:CYS:SG	2.21	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
2:H:9:CYS:HB2	2:H:21:CYS:SG	2.21	0.80
1:D:359:GLU:OE2	1:D:360:PRO:CD	2.28	0.80
1:D:511:TYR:CE1	1:D:570:GLU:CG	2.46	0.80
1:D:591:PHE:HE2	1:D:666:TYR:HB2	1.41	0.80
1:D:686:VAL:O	1:D:689:ILE:HG23	1.81	0.80
1:B:638:PHE:HZ	1:E:668:ILE:HG21	1.41	0.80
1:G:571:LYS:HE2	1:G:575:ARG:HG2	1.64	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:B:542:VAL:CG1	1:E:598:LEU:HG	2.11	0.80
1:G:441:TYR:CZ	1:G:445:MET:SD	2.75	0.80
1:D:566:ALA:O	1:D:569:ILE:HG22	1.81	0.80
1:E:482:VAL:N	1:E:523:MET:HE1	1.95	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:B:243:PRO:HB2	1:B:244:GLY:CA	2.08	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:353:LEU:C	1:D:354:GLN:NE2	2.35	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: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:B:591:PHE:HE2	1:B:666:TYR:HB2	1.41	0.79
1:E:445:MET:HE3	1:E:445:MET:HA	1.63	0.79
1:G:359:GLU:N	1:G:362:CYS:HB3	1.97	0.79
2:C:13:SER:HA	2:C:14:ASP:CB	2.12	0.79
1:D:453:TYR:HE2	1:D:454:TYR:CE1	1.99	0.79
1:B:374:TYR:C	1:E:210:GLU:HG2	2.02	0.79
1:B:564:ILE:CG1	1:B:693:SER:CB	2.42	0.79
1:E:354:GLN:HG3	1:E:382:TYR:CE1	2.18	0.79
1:E:421:LEU:HD21	1:E:425:LYS:NZ	1.97	0.79
1:D:441:TYR:CZ	1:D:445:MET:SD	2.75	0.79
1:D:598:LEU:HD21	1:G:542:VAL:HG21	1.63	0.79
1:E:686:VAL:O	1:E:689:ILE:HG23	1.81	0.79
1:G:560:GLN:N	1:G:697:TRP:CD1	2.50	0.79
1:G:564:ILE:O	1:G:689:ILE:HD11	1.81	0.79
2:A:13:SER:HA	2:A:14:ASP:CB	2.12	0.79
1:D:591:PHE:CD2	1:D:666:TYR:CG	2.71	0.79
1:B:421:LEU:HD21	1:B:425:LYS:NZ	1.97	0.79
1:B:453:TYR:HE2	1:B:454:TYR:CE1	1.99	0.79
1:B:566:ALA:O	1:B:569:ILE:HG22	1.81	0.79
1:E:566:ALA:O	1:E:569:ILE:HG22	1.81	0.79
1:E:575:ARG:O	1:E:579:ARG:CD	2.28	0.79
1:E:655:PHE:CA	2:F:10:SER:O	2.31	0.79
1:G:353:LEU:C	1:G:354:GLN:NE2	2.35	0.79
1:B:354:GLN:HG3	1:B:382:TYR:CE1	2.18	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: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:359:GLU:N	1:E:362:CYS:HB3	1.97	0.79
1:E:571:LYS:HE2	1:E:575:ARG:HG2	1.64	0.79
1:G:354:GLN:HG3	1:G:382:TYR:CE1	2.17	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:542:VAL:CG1	1:B:598:LEU:HG	2.13	0.79
1:D:760:UNK:HA	1:D:761:UNK:CB	2.11	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:G:434:PHE:HZ	1:G:555:TYR:O	1.61	0.79
1:B:431:LYS:O	1:B:435:TYR:CD2	2.35	0.78
1:B:571:LYS:HE2	1:B:575:ARG:HG2	1.64	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:G:591:PHE:CD2	1:G:666:TYR:CG	2.71	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:B:453:TYR:CD1	1:E:596:VAL:HG11	2.18	0.78
1:B:672:ILE:HA	1:B: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:D:453:TYR:CD1	1:B:596:VAL:HG11	2.18	0.78
1:D:631:TYR:CE2	2:C:24:THR:HA	2.03	0.78
1:D:635:LEU:HD21	1:B:664:LEU:CD2	2.13	0.78
1:B:542:VAL:HG21	1:E:598:LEU:HD21	1.63	0.78
1:B:591:PHE:CD2	1:B:666:TYR:CG	2.71	0.78
1:G:444:TYR:CE1	1:G:484:GLY:CA	2.56	0.78
1:B:570:GLU:O	1:B:574:LEU:CD2	2.31	0.78
1:E:672:ILE:HA	1:E:676:ASN:HD21	1.48	0.78
1:E:672:ILE:HG22	1:E:673:LEU:HD22	1.64	0.78
1:G:672:ILE:HA	1:G:676:ASN:HD21	1.48	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:D:571:LYS:HE3	1:D:575:ARG:HH12	1.43	0.78
1:D:571:LYS:HE2	1:D:575:ARG:HG2	1.64	0.78
1:G:570:GLU:O	1:G:574:LEU:CD2	2.31	0.78
1:D:198:TYR:CE2	1:G:372:TRP:HE3	1.96	0.78
1:D:354:GLN:HG3	1:D:382:TYR:CE1	2.18	0.78
1:D:655:PHE:CA	2:A:10:SER:O	2.31	0.78
1:G:710:LYS:HA	1:G:710:LYS:HE3	1.65	0.78
1:D:542:VAL:HG21	1:B:598:LEU:HD21	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:598:LEU:HG	1:G:542:VAL:CG2	2.13	0.78
2:H:13:SER:HA	2:H:14:ASP:CB	2.12	0.78
1:D:712:PHE:O	1:D:713:LEU:HB2	1.84	0.78
1:B:638:PHE:HZ	1:E:668:ILE:CG2	1.93	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:E:642:ILE:HD11	1:G:668:ILE:HG22	1.63	0.78
2:F:13:SER:HA	2:F:14:ASP:CB	2.12	0.78
1:D:210:GLU:CG	1:G:375:GLY:N	2.19	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:B:359:GLU:OE2	1:B:360:PRO:CD	2.28	0.77
1:E:511:TYR:CD1	1:E:570:GLU:HG2	1.99	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:D:664:LEU:CD2	1:G:635:LEU:HD21	2.13	0.77
1:G:417:PRO:O	1:G:421:LEU:N	2.15	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:B:635:LEU:HD21	1:E:664:LEU:CD2	2.14	0.77
1:E:572:MET:CB	1:G:673:LEU:CD1	2.57	0.77
1:E:710:LYS:HA	1:E:710:LYS:HE3	1.65	0.77
1:E:712:PHE:O	1:E:713:LEU:HB2	1.84	0.77
1:G:380:SER:O	1:G:754:UNK:CA	2.32	0.77
1:D:638:PHE:HA	1:D:641:THR:HG22	1.67	0.77
1:B:678:LEU:HD11	1:B:682:MET:HE2	1.66	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:D:461:PRO:CB	1:D:530:TYR:CE1	2.68	0.77
1:B:571:LYS:HE3	1:B:575:ARG:HH12	1.43	0.77
1:E:396:LEU:O	1:E:399:ILE:HG22	1.84	0.77
1:G:471:ASP:O	1:G:475:VAL:CG2	2.33	0.77
1:G:638:PHE:HA	1:G:641:THR:HG22	1.67	0.77
1:G:655:PHE:CA	2:H:10:SER:O	2.31	0.77
1:D:247:PHE:CD2	1:G:376:PRO:CG	2.68	0.77
1:D:559:PHE:C	1:D:697:TRP:CD1	2.58	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:337:LEU:CD2	1:G:395:VAL:CB	2.62	0.77
1:B:461:PRO:CB	1:B:530:TYR:CE1	2.68	0.77
1:B:471:ASP:O	1:B:475:VAL:CG2	2.33	0.77
1:G:461:PRO:CB	1:G:530:TYR:CE1	2.68	0.77
1:D:444:TYR:CE1	1:D:484:GLY:CA	2.56	0.77
1:B:380:SER:O	1:B:754:UNK:CA	2.32	0.77
1:B:396:LEU:O	1:B:399:ILE:HG22	1.84	0.77
1:B:405:GLU:C	1:B:407:PRO:HD3	2.05	0.77
1:E:337:LEU:CD2	1:E:395:VAL:CB	2.62	0.77
1:E:357:ILE:H	1:E:366:SER:HG	1.30	0.77
1:E:380:SER:O	1:E:754:UNK:CA	2.32	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:369:PHE:O	1:G:381:LEU:HB3	1.85	0.77
1:G:559:PHE:C	1:G:697:TRP:CD1	2.58	0.77
1:D:405:GLU:C	1:D:407:PRO:HD3	2.05	0.76
1:B:353:LEU:CD2	1:B:386:CYS:SG	2.72	0.76
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:D:127:GLN:HG2	1:D:130:GLU:OE2	1.85	0.76
1:D:353:LEU:CD2	1:D:386:CYS:SG	2.72	0.76
1:D:374:TYR:CB	1:B:210:GLU:OE2	2.33	0.76
1:D:538:VAL:HG13	1:D:539:ALA:N	2.00	0.76
1:B:337:LEU:CD2	1:B:395:VAL:CB	2.62	0.76
1:B:560:GLN:CA	1:B:697:TRP:CD1	2.68	0.76
1:B:591:PHE:CD2	1:B:666:TYR:CB	2.69	0.76
1:E:375:GLY:H	1:G:210:GLU:HG2	0.61	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:638:PHE:HZ	1:B:668:ILE:CG2	1.95	0.76
1:B:127:GLN:HG2	1:B:130:GLU:OE2	1.85	0.76
1:B:710:LYS:HA	1:B:710:LYS:HE3	1.65	0.76
1:G:353:LEU:CD2	1:G:386:CYS:SG	2.72	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:B:655:PHE:CA	2:C:10:SER:O	2.31	0.76
1:E:369:PHE:O	1:E:381:LEU:HB3	1.85	0.76
1:E:638:PHE:HA	1:E:641:THR:HG22	1.67	0.76
1:G:127:GLN:HG2	1:G:130:GLU:OE2	1.85	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:591:PHE:HE2	1:E:666:TYR:HB2	1.41	0.76
1:E:631:TYR:CD2	2:H:24:THR:CA	1.84	0.76
1:D:396:LEU:O	1:D:399:ILE:HG22	1.84	0.76
1:E:127:GLN:HG2	1:E:130:GLU:OE2	1.85	0.76
1:G:396:LEU:O	1:G:399:ILE:HG22	1.84	0.76
1:G:591:PHE:CD2	1:G:666:TYR:CB	2.69	0.76
1:D:560:GLN:CA	1:D:697:TRP:CD1	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:E:461:PRO:CB	1:E:530:TYR:CE1	2.68	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:B:374:TYR:CB	1:E:235:PHE:HE1	1.97	0.76
1:E:538:VAL:HG13	1:E:539:ALA:N	2.01	0.76
1:G:405:GLU:C	1:G:407:PRO:HD3	2.05	0.75
1:D:481:SER:O	1:D:523:MET:HE1	1.83	0.75
1:B:560:GLN:O	1:B:564:ILE:CD1	2.34	0.75
1:B:374:TYR:CB	1:E:235:PHE:CE1	2.69	0.75
1:E:631:TYR:CD2	2:H:24:THR:CB	2.69	0.75
1:B:374:TYR:CB	1:E:210:GLU:OE2	2.34	0.75
1:G:560:GLN:CA	1:G:697:TRP:CD1	2.68	0.75
1:D:591:PHE:CD2	1:D:666:TYR:CB	2.69	0.75
1:D:598:LEU:HD23	1:G:542:VAL:HG21	1.64	0.75
1:B:638:PHE:HA	1:B:641:THR:HG22	1.67	0.75
1:E:359:GLU:OE2	1:E:360:PRO:CD	2.28	0.75
1:E:511:TYR:HE2	1:E:515:LEU:HD11	1.49	0.75
1:G:710:LYS:HA	1:G:710:LYS:NZ	2.02	0.75
1:B:572:MET:HB2	1:E:673:LEU:HD11	1.65	0.75
1:E:444:TYR:CE1	1:E:484:GLY:CA	2.56	0.75
1:G:568:MET:HB3	1:G:689:ILE:HD13	1.66	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: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:572:MET:HB2	1:B:673:LEU:HD11	1.66	0.74
1:D:710:LYS:HA	1:D:710:LYS:NZ	2.02	0.74
1:G:568:MET:CE	1:G:689:ILE:HD13	2.17	0.74
1:D:374:TYR:CB	1:B:235:PHE:HE1	1.99	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:560:GLN:O	1:D:564:ILE:CD1	2.34	0.74
1:B:542:VAL:CG2	1:E:598:LEU:HG	2.16	0.74
1:B:631:TYR:CD2	2:F:23:PRO:O	2.40	0.74
1:E:580:PHE:CE2	1:E:674:LEU:CD1	2.68	0.74
1:E:635:LEU:HD21	1:G:664:LEU:CD2	2.16	0.74
1:B:710:LYS:HA	1:B:710:LYS:NZ	2.02	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: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: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:353:LEU:O	1:B:354:GLN:NE2	2.20	0.74
1:B:369:PHE:O	1:B:381:LEU:HB3	1.85	0.74
1:B:529:LEU:O	1:B:532:SER:OG	2.05	0.74
1:B:538:VAL:HG13	1:B:539:ALA:N	2.00	0.74
1:G:511:TYR:CD1	1:G:570:GLU:HG2	1.99	0.74
1:G:529:LEU:O	1:G:532:SER:OG	2.05	0.74
1:D:591:PHE:CE2	1:D:666:TYR:HD1	2.06	0.74
1:B:756:UNK:N	1:E:242:ARG:O	2.18	0.74
1:G:243:PRO:CB	1:G:244:GLY:HA3	2.16	0.74
1:G:560:GLN:O	1:G:564:ILE:CD1	2.34	0.74
1:B:572:MET:CB	1:E:673:LEU:CD1	2.63	0.74
1:B:599:ILE:N	1:B:599:ILE:HD12	2.03	0.74
1:B:644:MET:SD	1:E:647:LEU:CD2	2.74	0.74
1:E:560:GLN:O	1:E:564:ILE:CD1	2.34	0.74
1:D:337:LEU:CD2	1:D:395:VAL:CB	2.62	0.74
1:D:353:LEU:O	1:D:354:GLN:NE2	2.20	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:B:549:TRP:HZ3	1:B:552:MET:SD	2.11	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:242:ARG:N	1:E:243:PRO:HA	1.98	0.73
1:E:529:LEU:CA	1:E:532:SER:OG	2.36	0.73
1:E:710:LYS:HA	1:E:710:LYS:NZ	2.02	0.73
1:D:242:ARG:N	1:G:756:UNK:CB	2.51	0.73
1:B:560:GLN:N	1:B:560:GLN:OE1	2.17	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:568:MET:CE	1:B:689:ILE:HD13	2.17	0.73
1:B:591:PHE:CE2	1:B:666:TYR:HD1	2.06	0.73
1:E:529:LEU:O	1:E:532:SER:OG	2.05	0.73
1:G:599:ILE:HD12	1:G:599:ILE:N	2.03	0.73
1:B:657:ALA:C	1:B:660:ILE:CD1	2.54	0.73
1:E:568:MET:CE	1:E:689:ILE:HD13	2.17	0.73
1:E:675:LEU:O	1:E:679:ILE:HG13	1.89	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:351:TYR:O	1:E:355:ARG:CB	2.36	0.73
1:E:599:ILE:N	1:E:599:ILE:HD12	2.03	0.73
1:E:668:ILE:O	1:E:672:ILE:HG12	1.89	0.73
1:D:374:TYR:CB	1:B:235:PHE:CE1	2.71	0.73
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:243:PRO:CB	1:D:244:GLY:HA3	2.15	0.73
1:D:351:TYR:O	1:D:355:ARG:CB	2.37	0.73
1:D:549:TRP:HZ3	1:D:552:MET:SD	2.11	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:E:243:PRO:CB	1:E:244:GLY:HA3	2.15	0.73
1:E:572:MET:CG	1:G:673:LEU:HD11	2.17	0.73
1:G:529:LEU:CA	1:G:532:SER:OG	2.36	0.73
1:G:668:ILE:HD12	1:G:669:LEU:N	2.03	0.73
1:D:426:TRP:CD1	1:D:430:VAL:C	2.63	0.73
1:B:426:TRP:CD1	1:B:430:VAL:C	2.63	0.73
1:B:444:TYR:CE1	1:B:484:GLY:CA	2.56	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:D:210:GLU:OE2	1:G:374:TYR:CB	2.36	0.73
1:D:529:LEU:CA	1:D:532:SER:OG	2.36	0.73
1:D:638:PHE:CE1	1:B:668:ILE:HG22	2.24	0.73
1:G:136:LEU:HB2	1:G:141:LYS:O	1.89	0.73
1:G:416:GLU:O	1:G:420:ARG:CB	2.37	0.73
1:G:560:GLN:N	1:G:560:GLN:OE1	2.17	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:D:657:ALA:C	1:D:660:ILE:CD1	2.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:B:416:GLU:O	1:B:420:ARG:CB	2.37	0.72
1:G:549:TRP:HZ3	1:G:552:MET:SD	2.11	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:E:416:GLU:O	1:E:420:ARG:CB	2.37	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:G:426:TRP:CD1	1:G:430:VAL:C	2.63	0.72
1:B:488:PHE:HB2	1:B:520:SER:HB3	1.71	0.72
1:D:488:PHE:HB2	1:D:520:SER:HB3	1.71	0.72
1:D:568:MET:O	1:D:572:MET:HG2	1.90	0.72
1:B:423:GLN:OE1	1:B:423:GLN:HA	1.89	0.72
1:B:635:LEU:HD22	1:E:664:LEU:HD21	1.70	0.72
1:G:668:ILE:O	1:G:672:ILE:HG12	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:413:LEU:O	1:E:413:LEU:HD22	1.90	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:D:136:LEU:HB2	1:D:141:LYS:O	1.89	0.72
1:D:580:PHE:HZ	1:D:674:LEU:CA	2.03	0.72
1:B:413:LEU:O	1:B:413:LEU:HD22	1.90	0.72
1:G:568:MET:O	1:G:572:MET:HG2	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:242:ARG:N	1:D:243:PRO:HA	1.98	0.71
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:G:655:PHE:HB3	1:G:658:VAL:HB	1.72	0.71
1:D:445:MET:HA	1:D:445:MET:CE	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:D:423:GLN:OE1	1:D:423:GLN:HA	1.89	0.71
1:D:599:ILE:HD12	1:D:599:ILE:N	2.03	0.71
1:B:445:MET:HA	1:B:445:MET:CE	2.20	0.71
1:B:638:PHE:HA	1:B:641:THR:CG2	2.20	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:638:PHE:HE1	1:B:668:ILE:CG2	2.02	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:G:672:ILE:C	1:G:676:ASN:ND2	2.43	0.71
1:E:423:GLN:HA	1:E:423:GLN:OE1	1.89	0.71
1:E:445:MET:HA	1:E:445:MET:CE	2.20	0.71
1:E:568:MET:O	1:E:572:MET:HG2	1.90	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:THR:CB	2.73	0.71
1:D:426:TRP:CE2	1:D:431:LYS:HA	2.26	0.71
1:D:664:LEU:HD21	1:G:635:LEU:HD22	1.73	0.71
1:B:568:MET:O	1:B:572:MET:HG2	1.90	0.71
1:G:580:PHE:HZ	1:G:674:LEU:CA	2.03	0.71
1:D:631:TYR:CD2	2:C:23:PRO:O	2.43	0.71
1:G:426:TRP:CE2	1:G:431:LYS:HA	2.26	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: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:E:560:GLN:N	1:E:560:GLN:OE1	2.17	0.71
1:G:423:GLN:OE1	1:G:423:GLN:HA	1.89	0.71
1:G:580:PHE:HZ	1:G:674:LEU:HD13	1.50	0.71
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:568:MET:CA	1:B:689:ILE:HD12	2.21	0.70
1:B:631:TYR:CD2	2:F:24:THR: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: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:B:580:PHE:HZ	1:B:674:LEU:CA	2.03	0.70
1:E:306:THR:HG23	1:E:351:TYR:CE1	2.26	0.70
1:E:354:GLN:HG3	1:E:382:TYR:HE1	1.56	0.70
1:E:686:VAL:HA	1:E:689:ILE:CG2	2.22	0.70
1:G:580:PHE:CZ	1:G:674:LEU:CB	2.74	0.70
1:G:638:PHE:HA	1:G:641:THR:CG2	2.20	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:580:PHE:CZ	1:D:674:LEU:CB	2.74	0.70
1:E:568:MET:CA	1:E:689:ILE:HD12	2.21	0.70
2:F:9:CYS:HB3	2:F:13:SER:CB	2.22	0.70
1:B:638:PHE:CE1	1:E:668:ILE:HG22	2.24	0.70
1:E:374:TYR:CB	1:G:210:GLU:OE2	2.38	0.70
1:E:672:ILE:C	1:E:676:ASN:ND2	2.44	0.70
2:A:9:CYS:HB3	2:A:13:SER:CB	2.22	0.70
1:D:511:TYR:HE2	1:D:515:LEU:HD11	1.50	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:G:413:LEU:O	1:G:413:LEU:HD22	1.90	0.70
1:G:436:PHE:O	1:G:440:VAL:HG23	1.91	0.70
1:D:210:GLU:HG2	1:G:374:TYR:CA	2.21	0.70
1:D:416:GLU:O	1:D:420:ARG:N	2.22	0.70
1:D:436:PHE:O	1:D:440:VAL:HG23	1.91	0.70
1:B:354:GLN:HG3	1:B:382:TYR:HE1	1.56	0.70
1:B:686:VAL:HA	1:B:689:ILE:CG2	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:G:445:MET:HA	1:G:445:MET:CE	2.20	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
2:C:9:CYS:HB3	2:C:13:SER:CB	2.22	0.70
1:D:597:THR:HG22	1:G:453:TYR:CA	2.22	0.70
1:D:631:TYR:CD2	2:C:24:THR:CB	2.74	0.70
1:B:542:VAL:HG11	1:E:598:LEU:CG	2.21	0.70
1:B:580:PHE:CZ	1:B:674:LEU:CB	2.74	0.70
1:G:678:LEU:HD11	1:G:682:MET:HE3	1.72	0.70
2:H:15:CYS:O	2:H:16:CYS:O	2.10	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:B:559:PHE:HA	1:B:697:TRP:HE1	1.56	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
1:D:756:UNK:N	1:B:242:ARG:O	2.18	0.69
1:B:591:PHE:CE2	1:B:666:TYR:CD1	2.80	0.69
1:G:354:GLN:HG3	1:G:382:TYR:HE1	1.56	0.69
2:A:15:CYS:O	2:A:16:CYS:O	2.10	0.69
2:H:9:CYS:HB3	2:H:13:SER:CB	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:E:434:PHE:CE2	1:E:555:TYR:O	2.46	0.69
1:B:572:MET:CG	1:E:673:LEU:HD11	2.21	0.69
1:E:350:ALA:CB	1:E:414:LEU:HD11	2.22	0.69
1:E:425:LYS:C	1:E:430:VAL:HG23	2.13	0.69
1:E:580:PHE:CZ	1:E:674:LEU:CB	2.74	0.69
1:G:184:ASP:C	1:G:186:LEU:H	1.96	0.69
2:C:15:CYS:O	2:C:16:CYS:O	2.10	0.69
2:F:5:MET:O	2:F:6:PHE:CB	2.41	0.69
1:B:384:LEU:HD21	1:B:387:ILE:N	2.08	0.69
1:B:421:LEU:O	1:B:421:LEU:HD23	1.93	0.69
1:E:421:LEU:O	1:E:421:LEU:HD23	1.93	0.69
1:G:572:MET:HE1	1:G:685:THR:OG1	1.92	0.69
1:D:184:ASP:C	1:D:186:LEU:H	1.96	0.69
1:D:580:PHE:CZ	1:D:674:LEU:HB3	2.28	0.69
1:B:426:TRP:CD1	1:B:431:LYS:N	2.61	0.69
1:E:384:LEU:HD21	1:E:387:ILE:N	2.08	0.69
1:E:655:PHE:HB3	1:E:658:VAL:HB	1.72	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:B:425:LYS:C	1:B:430:VAL:HG23	2.13	0.69
1:B:495:TYR:CE2	1:B:513:GLU:OE1	2.46	0.69
1:E:495:TYR:CE2	1:E:513:GLU:OE1	2.46	0.69
1:G:580:PHE:CZ	1:G:674:LEU:HB3	2.28	0.69
2:A:5:MET:O	2:A:6:PHE:CB	2.41	0.69
1:D:426:TRP:CD1	1:D:431:LYS:N	2.61	0.69
1:D:434:PHE:CE2	1:D:555:TYR:O	2.46	0.69
1:E:198:TYR:HE1	1:E:242:ARG:HD2	1.55	0.69
1:G:559:PHE:HA	1:G:697:TRP:HE1	1.56	0.69
1:G:561:GLN:O	1:G:565:TYR:CD2	2.46	0.69
1:G:631:TYR:CD2	2:A:23:PRO:O	2.45	0.69
2:F:15:CYS:O	2:F:16:CYS:O	2.10	0.69
1:D:357:ILE:H	1:D:366:SER:HG	1.37	0.69
1:D:453:TYR:HA	1:B:597:THR:HG22	1.75	0.69
1:D:559:PHE:HA	1:D:697:TRP:HE1	1.56	0.69
1:D:568:MET:HB3	1:D:689:ILE:HD13	1.66	0.69
1:D:657:ALA:N	1:D:660:ILE:CD1	2.56	0.69
1:B:350:ALA:CB	1:B:414:LEU:HD11	2.22	0.69
1:B:434:PHE:CE2	1:B:555:TYR:O	2.46	0.69
1:G:384:LEU:HD21	1:G:387:ILE:N	2.08	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:416:GLU:O	1:G:420:ARG:N	2.22	0.69
1:G:426:TRP:CD1	1:G:431:LYS:N	2.61	0.69
1:D:350:ALA:CB	1:D:414:LEU:HD11	2.22	0.69
1:D:495:TYR:CE2	1:D:513:GLU:OE1	2.45	0.69
1:B:184:ASP:C	1:B:186:LEU:H	1.96	0.69
1:D:482:VAL:N	1:D:523:MET:HE1	2.04	0.69
1:D:580:PHE:CE2	1:D:674:LEU:CD1	2.68	0.69
1:D:647:LEU:CD2	1:G:644:MET:SD	2.75	0.69
1:D:668:ILE:HG22	1:G:638:PHE:CE1	2.27	0.69
1:E:426:TRP:CD1	1:E:431:LYS:N	2.61	0.69
1:E:657:ALA:HA	1:E:660:ILE:HD11	0.71	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:G:495:TYR:CE2	1:G:513:GLU:OE1	2.45	0.69
1:G:591:PHE:CE2	1:G:666:TYR:CD1	2.80	0.69
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:B:657:ALA:N	1:B:660:ILE:CD1	2.56	0.68
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
1:E:184:ASP:C	1:E:186:LEU:H	1.96	0.68
1:D:302:THR:O	1:D:306:THR:HB	1.94	0.68
1:D:425:LYS:C	1:D:430:VAL:HG23	2.13	0.68
1:D:580:PHE:HZ	1:D:674:LEU:CD1	2.01	0.68
1:B:511:TYR:HE2	1:B:515:LEU:HD11	1.49	0.68
1:D:572:MET:HG3	1:B:673:LEU:HD12	1.74	0.68
1:B:302:THR:O	1:B:306:THR:HB	1.94	0.68
1:E:699:LEU:C	1:E:699:LEU:HD12	2.14	0.68
1:G:405:GLU:CB	1:G:407:PRO:HD3	2.24	0.68
1:G:657:ALA:HA	1:G:660:ILE:HD11	0.71	0.68
1:G:699:LEU:C	1:G:699:LEU:HD12	2.14	0.68
2:C:5:MET:O	2:C:6:PHE:CB	2.41	0.68
1:D:542:VAL:HG11	1:B:598:LEU:CG	2.23	0.68
1:D:688:LYS:HG3	1:D:689:ILE:N	2.09	0.68
1:B:572:MET:HE1	1:B:685:THR:OG1	1.92	0.68
1:E:405:GLU:CB	1:E:407:PRO:HD3	2.24	0.68
1:E:542:VAL:HG11	1:G:598:LEU:CD1	2.24	0.68
1:G:657:ALA:N	1:G:660:ILE:CD1	2.56	0.68
1:D:562:MET:N	1:D:562:MET:SD	2.67	0.68
1:D:572:MET:CG	1:B:673:LEU:HD11	2.24	0.68
1:B:699:LEU:C	1:B:699:LEU:HD12	2.14	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:413:LEU:HD13	1:E:413:LEU:C	2.14	0.68
1:G:434:PHE:CE2	1:G:555:TYR:O	2.46	0.68
1:G:444:TYR:CZ	1:G:484:GLY:C	2.67	0.68
1:D:511:TYR:HE1	1:D:570:GLU:HG3	1.46	0.68
1:D:678:LEU:HD11	1:D:682:MET:HE2	1.75	0.68
1:B:384:LEU:HD22	1:B:384:LEU:O	1.94	0.68
1:B:561:GLN:O	1:B:565:TYR:CD2	2.46	0.68
1:B:580:PHE:CZ	1:B:674:LEU:HB3	2.28	0.68
1:E:384:LEU:HD22	1:E:384:LEU:C	2.14	0.68
1:G:426:TRP:HZ3	1:G:701:ARG:NH1	1.87	0.68
2:H:5:MET:O	2:H:6:PHE:CB	2.41	0.68
1:D:673:LEU:HD11	1:G:572:MET:CG	2.24	0.68
1:B:375:GLY:H	1:E:210:GLU:HG2	0.59	0.68
1:B:413:LEU:HD13	1:B:413:LEU:C	2.14	0.68
1:E:580:PHE:CZ	1:E:674:LEU:HB3	2.28	0.68
1:E:657:ALA:N	1:E:660:ILE:CD1	2.56	0.68
1:G:640:PHE:HE1	1:G:647:LEU:HD11	1.59	0.68
1:D:310:ASN:HB2	1:D:351:TYR:OH	1.93	0.68
1:D:374:TYR:O	1:D:377:VAL:N	2.26	0.68
1:D:405:GLU:CB	1:D:407:PRO:HD3	2.24	0.68
1:D:561:GLN:O	1:D:565:TYR:CD2	2.46	0.68
1:D:602:GLY:O	1:D:603:LYS:HB3	1.94	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:B:374:TYR:O	1:B:377:VAL:N	2.26	0.68
1:G:426:TRP:NE1	1:G:431:LYS:N	2.42	0.68
1:D:384:LEU:O	1:D:384:LEU:HD13	1.94	0.68
1:D:591:PHE:CE2	1:D:666:TYR:CD1	2.80	0.68
1:D:640:PHE:HE1	1:D:647:LEU:HD11	1.59	0.68
1:D:657:ALA:HA	1:D:660:ILE:HD11	0.71	0.68
1:D:699:LEU:C	1:D:699:LEU:HD12	2.14	0.68
1:B:562:MET:N	1:B:562:MET:SD	2.67	0.68
1:E:367:ARG:HH12	1:E:385:SER:H	0.79	0.68
1:E:367:ARG:O	1:E:383:ASP:HB2	1.95	0.68
1:E:374:TYR:O	1:E:377:VAL:N	2.26	0.68
1:G:384:LEU:O	1:G:384:LEU:HD13	1.94	0.68
1:D:444:TYR:CZ	1:D:484:GLY:C	2.67	0.67
1:D:683:GLY:O	1:D:687:ASN:ND2	2.28	0.67
1:E:356:GLU:CA	1:E:366:SER:OG	2.42	0.67
1:E:426:TRP:CD1	1:E:430:VAL:CA	2.78	0.67
1:G:310:ASN:HB2	1:G:351:TYR:OH	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:350:ALA:CB	1:G:414:LEU:HD11	2.22	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:B:280:ARG:HG2	1:B:284:GLY:O	1.95	0.67
1:E:426:TRP:NE1	1:E:431:LYS:N	2.42	0.67
1:E:644:MET:SD	1:G:647:LEU:CD2	2.78	0.67
1:G:577:LEU:HD13	1:G:577:LEU:C	2.15	0.67
1:G:678:LEU:HD11	1:G:682:MET:HE2	1.75	0.67
1:B:560:GLN:H	1:B:560:GLN:CD	1.95	0.67
1:E:310:ASN:HB2	1:E:351:TYR:OH	1.93	0.67
1:E:441:TYR:HE1	1:E:552:MET:CB	2.08	0.67
1:G:280:ARG:HG2	1:G:284:GLY:O	1.95	0.67
1:G:302:THR:O	1:G:306:THR:HB	1.94	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:D:441:TYR:HE1	1:D:552:MET:CB	2.08	0.67
1:B:357:ILE:H	1:B:366:SER:HG	1.37	0.67
1:E:756:UNK:N	1:G:242:ARG:O	2.21	0.67
1:G:569:ILE:O	1:G:573:ILE:HG13	1.94	0.67
1:D:374:TYR:HA	1:B:210:GLU:CD	2.15	0.67
1:D:673:LEU:HD12	1:G:572:MET:HG3	1.75	0.67
1:B:198:TYR:HE1	1:B:242:ARG:HD2	1.55	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:E:656:LYS:O	1:E:660:ILE:HD12	1.89	0.67
1:G:367:ARG:O	1:G:383:ASP:HB2	1.95	0.67
1:G:384:LEU:HD22	1:G:384:LEU:C	2.14	0.67
1:G:678:LEU:C	1:G:678:LEU:HD12	2.14	0.67
1:D:588:LEU:C	1:D:588:LEU:HD12	2.15	0.67
1:E:384:LEU:HD22	1:E:384:LEU:O	1.94	0.67
1:E:678:LEU:C	1:E:678:LEU:HD12	2.14	0.67
1:G:669:LEU:HD12	1:G:669:LEU:C	2.15	0.67
1:G:688:LYS:HG3	1:G:689:ILE:N	2.09	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:B:569:ILE:O	1:B:573:ILE:HG13	1.94	0.67
1:E:302:THR:O	1:E:306:THR:HB	1.94	0.67
1:E:569:ILE:O	1:E:573:ILE:HG13	1.94	0.67
1:E:588:LEU:C	1:E:588:LEU:HD12	2.15	0.67
1:E:688:LYS:HG3	1:E:689:ILE:N	2.09	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:562:MET:N	1:G:562:MET:SD	2.67	0.67
1:D:426:TRP:NE1	1:D:431:LYS:N	2.42	0.67
1:D:511:TYR:CZ	1:D:515:LEU:HD11	2.29	0.67
1:D:668:ILE:CG2	1:G:638:PHE:HZ	2.01	0.67
1:D:669:LEU:HD12	1:D:669:LEU:C	2.15	0.67
1:D:718:LYS:O	1:D:719:ALA:HB2	1.95	0.67
1:B:405:GLU:CB	1:B:407:PRO:HD3	2.24	0.67
1:B:656:LYS:O	1:B:660:ILE:HD12	1.89	0.67
1:B:668:ILE:HD12	1:B:668:ILE:C	2.16	0.67
1:B:669:LEU:HD12	1:B:669:LEU:C	2.15	0.67
1:E:562:MET:N	1:E:562:MET:SD	2.67	0.67
1:E:683:GLY:O	1:E:687:ASN:ND2	2.28	0.67
1:D:384:LEU:HD21	1:D:387:ILE:N	2.08	0.67
1:B:375:GLY:HA2	1:E:210:GLU:HA	1.76	0.67
1:B:384:LEU:O	1:B:384:LEU:HD13	1.94	0.67
1:B:453:TYR:HA	1:E:597:THR:HG22	1.77	0.67
1:E:591:PHE:CE2	1:E:666:TYR:CD1	2.80	0.67
1:E:718:LYS:O	1:E:719:ALA:HB2	1.95	0.67
1:G:384:LEU:O	1:G:384:LEU:HD22	1.94	0.67
1:G:511:TYR:HE1	1:G:570:GLU:HG3	1.46	0.67
1:D:356:GLU:CA	1:D:366:SER:OG	2.42	0.67
1:D:668:ILE:HD12	1:D:668:ILE:C	2.15	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:B:511:TYR:CZ	1:B:515:LEU:HD11	2.29	0.67
1:G:413:LEU:HD13	1:G:413:LEU:C	2.14	0.67
1:G:511:TYR:CZ	1:G:515:LEU:HD11	2.29	0.67
1:G:602:GLY:O	1:G:603:LYS:HB3	1.94	0.67
1:D:370:THR:CB	1:D:380:SER:HA	2.26	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:B:416:GLU:O	1:B:420:ARG:N	2.22	0.66
1:B:588:LEU:C	1:B:588:LEU:HD12	2.15	0.66
1:E:668:ILE:HD12	1:E:668:ILE:C	2.16	0.66
1:D:413:LEU:C	1:D:413:LEU:HD13	2.14	0.66
1:B:577:LEU:C	1:B:577:LEU:HD13	2.15	0.66
1:B:688:LYS:HG3	1:B:689:ILE:N	2.09	0.66
1:E:280:ARG:HG2	1:E:284:GLY:O	1.95	0.66
1:E:602:GLY:O	1:E:603:LYS:HB3	1.94	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:367:ARG:O	1:D:383:ASP:HB2	1.95	0.66
1:D:600:GLU:HG2	1:D:628:ASN:CG	2.16	0.66
1:B:374:TYR:HA	1:E:210:GLU:CD	2.16	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:G:514:ILE:HD13	1:G:514:ILE:C	2.16	0.66
1:D:235:PHE:HE1	1:G:374:TYR:CB	2.08	0.66
1:B:370:THR:CB	1:B:380:SER:HA	2.26	0.66
1:E:384:LEU:O	1:E:384:LEU:HD13	1.94	0.66
1:E:426:TRP:HZ3	1:E:701:ARG:NH1	1.87	0.66
1:G:656:LYS:O	1:G:660:ILE:HD12	1.89	0.66
1:G:687:ASN:HD22	1:G:687:ASN:N	1.93	0.66
1:D:280:ARG:HG2	1:D:284:GLY:O	1.95	0.66
1:D:697:TRP:CH2	1:D:701:ARG:NE	2.63	0.66
1:B:678:LEU:C	1:B:678:LEU:HD12	2.14	0.66
1:B:692:GLU:HB3	1:B:696:ILE:HG23	1.78	0.66
1:E:640:PHE:HE1	1:E:647:LEU:HD11	1.59	0.66
1:E:692:GLU:HB3	1:E:696:ILE:HG23	1.78	0.66
1:G:142:ARG:HD3	1:G:183:THR:HG21	1.78	0.66
1:B:600:GLU:HG2	1:B:628:ASN:CG	2.16	0.66
1:B:602:GLY:O	1:B:603:LYS:HB3	1.94	0.66
1:E:375:GLY:HA2	1:G:210:GLU:HA	1.78	0.66
1:E:669:LEU:HD12	1:E:669:LEU:C	2.15	0.66
1:G:683:GLY:O	1:G:687:ASN:ND2	2.28	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:E:577:LEU:C	1:E:577:LEU:HD13	2.15	0.66
1:G:370:THR:CB	1:G:380:SER:HA	2.26	0.66
1:D:678:LEU:C	1:D:678:LEU:HD12	2.14	0.66
1:E:370:THR:CB	1:E:380:SER:HA	2.26	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:D:426:TRP:CA	1:D:430:VAL:CG2	2.71	0.66
1:D:577:LEU:HD13	1:D:577:LEU:C	2.15	0.66
1:B:683:GLY:O	1:B:687:ASN:ND2	2.28	0.66
1:E:453:TYR:HE2	1:E:454:TYR:CZ	2.14	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:G:468:THR:O	1:G:472:TYR:HB2	1.96	0.66
1:D:235:PHE:HB2	1:G:372:TRP:HZ3	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:560:GLN:N	1:D:560:GLN:OE1	2.17	0.66
1:B:239:THR:HB	1:B:243:PRO:HB3	1.77	0.66
1:E:514:ILE:C	1:E:514:ILE:HD13	2.16	0.66
1:E:564:ILE:CD1	1:E:693:SER:OG	2.44	0.66
1:B:718:LYS:O	1:B:719:ALA:HB2	1.95	0.65
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:D:499:ARG:HG2	1:D:499:ARG:NH1	2.11	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:687:ASN:HD22	1:D:687:ASN:N	1.93	0.65
1:G:564:ILE:CD1	1:G:693:SER:OG	2.44	0.65
1:G:638:PHE:O	1:G:641:THR:HG23	1.96	0.65
1:G:718:LYS:O	1:G:719:ALA:HB2	1.95	0.65
1:D:564:ILE:CD1	1:D:693:SER:OG	2.44	0.65
1:B:468:THR:O	1:B:472:TYR:HB2	1.96	0.65
1:B:514:ILE:HD13	1:B:514:ILE:C	2.16	0.65
1:B:564:ILE:CD1	1:B:693:SER:OG	2.44	0.65
1:D:514:ILE:HD13	1:D:514:ILE:C	2.16	0.65
1:B:453:TYR:HE2	1:B:454:TYR:CZ	2.14	0.65
1:B:638:PHE:O	1:B:641:THR:HG23	1.96	0.65
1:E:142:ARG:HD3	1:E:183:THR:HG21	1.78	0.65
1:E:468:THR:O	1:E:472:TYR:CB	2.45	0.65
1:G:560:GLN:H	1:G:560:GLN:CD	1.95	0.65
1:D:239:THR:CB	1:D:243:PRO:CB	2.75	0.65
1:E:426:TRP:CA	1:E:430:VAL:CG2	2.71	0.65
1:E:468:THR:O	1:E:472:TYR:HB2	1.96	0.65
1:E:560:GLN:H	1:E:560:GLN:CD	1.95	0.65
1:E:631:TYR:CD2	2:H:24:THR:N	2.61	0.65
1:G:603:LYS:HD3	1:G:636:GLU:HG3	1.77	0.65
1:D:239:THR:HB	1:D:243:PRO:HB3	1.77	0.65
1:D:453:TYR:HE2	1:D:454:TYR:CZ	2.14	0.65
1:D:638:PHE:O	1:D:641:THR:HG23	1.96	0.65
1:B:687:ASN:HD22	1:B:687:ASN:N	1.92	0.65
1:E:158:LEU:HD21	1:E:162:MET:CE	2.27	0.65
1:G:434:PHE:CE1	1:G:555:TYR:HD1	2.14	0.65
1:G:468:THR:O	1:G:472:TYR:CB	2.45	0.65
1:D:142:ARG:HD3	1:D:183:THR:HG21	1.78	0.65
1:D:210:GLU:HA	1:G:375:GLY:HA2	1.78	0.65
1:D:210:GLU:CD	1:G:374:TYR:HA	2.17	0.65
1:D:235:PHE:CE1	1:G:374:TYR:CB	2.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:499:ARG:HG2	1:E:499:ARG:NH1	2.11	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:G:692:GLU:HB3	1:G:696:ILE:HG23	1.78	0.65
2:F:9:CYS:CB	2:F:21:CYS:SG	2.85	0.65
1:E:239:THR:CB	1:E:243:PRO:CB	2.75	0.65
1:E:372:TRP:HZ3	1:G:235:PHE:HB2	1.61	0.65
1:E:421:LEU:HD21	1:E:425:LYS:HZ1	1.62	0.65
1:E:434:PHE:CE1	1:E:555:TYR:HD1	2.14	0.65
1:G:426:TRP:CD1	1:G:430:VAL:CA	2.78	0.65
1:D:198:TYR:HE1	1:D:242:ARG:HD2	1.55	0.64
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:G:374:TYR:O	1:G:377:VAL:N	2.26	0.64
1:E:638:PHE:O	1:E:641:THR:HG23	1.96	0.64
1:G:498:GLN:HA	1:G:498:GLN:NE2	2.09	0.64
2:C:9:CYS:CB	2:C:21:CYS:SG	2.85	0.64
1:B:468:THR:O	1:B:472:TYR:CB	2.45	0.64
1:B:631:TYR:CD2	2:F:24:THR:N	2.64	0.64
1:E:572:MET:CG	1:G:673:LEU:HD12	2.25	0.64
1:G:426:TRP:CA	1:G:430:VAL:CG2	2.71	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:D:596:VAL:CG1	1:G:453:TYR:CD1	2.79	0.64
1:B:242:ARG:N	1:B:243:PRO:HA	1.98	0.64
1:B:592:SER:O	1:B:596:VAL:HG23	1.98	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:453:TYR:CA	1:G:597:THR:HG22	2.28	0.64
1:E:498:GLN:HA	1:E:498:GLN:NE2	2.09	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:468:THR:O	1:D:472:TYR:HB2	1.96	0.64
1:D:598:LEU:CG	1:G:542:VAL:HG11	2.26	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:E:592:SER:O	1:E:596:VAL:HG23	1.97	0.64
1:E:359:GLU:CG	1:E:360:PRO:CD	2.74	0.64
1:E:580:PHE:HZ	1:E:674:LEU:HD13	1.50	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:B:511:TYR:C	1:B:514:ILE:HG22	2.19	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:G:415:VAL:CB	1:G:416:GLU:HA	2.27	0.64
1:D:158:LEU:HD21	1:D:162:MET:CE	2.27	0.64
1:E:415:VAL:CB	1:E:416:GLU:HA	2.27	0.64
1:D:592:SER:O	1:D:596:VAL:HG23	1.97	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
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
2:A:9:CYS:CB	2:A:21:CYS:SG	2.85	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
2:H:9:CYS:CB	2:H:21:CYS:SG	2.85	0.63
1:B:498:GLN:HA	1:B:498:GLN:NE2	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:E:572:MET:HE1	1:E:685:THR:OG1	1.98	0.63
1:G:158:LEU:HD21	1:G:162:MET:CE	2.27	0.63
1:G:306:THR:O	1:G:351:TYR:CZ	2.52	0.63
1:G:638:PHE:O	1:G:641:THR:CG2	2.46	0.63
1:D:591:PHE:CG	1:D:666:TYR:CE1	2.86	0.63
1:G:499:ARG:HG2	1:G:499:ARG:NH1	2.11	0.63
1:G:600:GLU:HG2	1:G:628:ASN:CG	2.16	0.63
1:D:597:THR:HB	1:G:452:ALA:O	1.97	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:142:ARG:CD	1:B:183:THR:HG21	2.29	0.63
1:B:591:PHE:CG	1:B:666:TYR:CE1	2.86	0.63
1:D:444:TYR:CE1	1:D:484:GLY:C	2.72	0.63
1:B:638:PHE:CZ	1:E:668:ILE:HG22	2.33	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:E:453:TYR:HA	1:G:597:THR:HG22	1.78	0.63
1:G:239:THR:HB	1:G:243:PRO:HB3	1.77	0.63
1:G:310:ASN:HB2	1:G:351:TYR:HH	1.62	0.63
1:G:692:GLU:C	1:G:696:ILE:HG13	2.19	0.63
1:B:444:TYR:CZ	1:B:484:GLY:C	2.67	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:346:ILE:HD13	1:G:410:HIS:CB	2.29	0.63
1:G:511:TYR:C	1:G:514:ILE:HG22	2.19	0.63
1:D:239:THR:OG1	1:D:241:GLY:CA	2.47	0.63
1:D:253:SER:HA	1:D:287:VAL:HG13	1.81	0.63
1:D:511:TYR:C	1:D:514:ILE:HG22	2.19	0.63
1:D:538:VAL:CG1	1:D:539:ALA:N	2.62	0.63
1:D:639:LYS:HE3	1:B:647:LEU:HB3	1.80	0.63
1:B:444:TYR:CE1	1:B:484:GLY:C	2.72	0.63
1:B:521:LEU:HD11	1:B:522:PHE:CD2	2.30	0.63
1:B:678:LEU:HD11	1:B:682:MET:HE3	1.81	0.63
1:E:142:ARG:CD	1:E:183:THR:HG21	2.29	0.63
1:G:359:GLU:CG	1:G:360:PRO:CD	2.74	0.63
1:D:346:ILE:HD13	1:D:410:HIS:CB	2.29	0.63
1:B:306:THR:O	1:B:351:TYR:CZ	2.52	0.63
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: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: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:E:239:THR:HB	1:E:243:PRO: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:B:158:LEU:O	1:B:158:LEU:HD22	1.99	0.62
1:B:239:THR:HB	1:B:243:PRO:CB	2.29	0.62
1:B:253:SER:HA	1:B:287:VAL:HG13	1.81	0.62
1:B:188:GLN:HE21	1:B:188:GLN:H	1.46	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:G:538:VAL:CG1	1:G:539:ALA:N	2.62	0.62
1:D:603:LYS:HD3	1:D:636:GLU:HG3	1.81	0.62
1:B:239:THR:CB	1:B:243:PRO:CB	2.75	0.62
1:B:426:TRP:CH2	1:B:701:ARG:NH1	2.66	0.62
1:D:158:LEU:O	1:D:158:LEU:HD22	1.99	0.62
1:D:239:THR:HB	1:D:243:PRO:CB	2.29	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:E:591:PHE:CG	1:E:666:TYR:CE1	2.86	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:638:PHE:HE1	1:G:668:ILE:CG2	2.08	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: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:699:LEU:HD12	1:D:700:GLN:N	2.14	0.62
1:B:359:GLU:CG	1:B:360:PRO:CD	2.74	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:426:TRP:HZ3	1:B:701:ARG:NH1	1.87	0.62
1:D:142:ARG:CD	1:D:183:THR:HG21	2.29	0.62
1:B:421:LEU:HD21	1:B:425:LYS:HZ1	1.64	0.62
1:E:538:VAL:CG1	1:E:539:ALA:N	2.62	0.62
1:E:692:GLU:C	1:E:696:ILE:HG13	2.19	0.62
1:D:413:LEU:O	1:D:413:LEU:HD13	1.99	0.62
1:B:538:VAL:CG1	1:B:539:ALA:N	2.62	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:E:514:ILE:O	1:E:518:VAL:HG23	2.00	0.62
1:B:453:TYR:CA	1:E:597:THR:HG22	2.29	0.62
1:E:239:THR:OG1	1:E:241:GLY:CA	2.47	0.62
1:E:366:SER:HB3	1:E:369:PHE:HE1	1.65	0.62
1:G:580:PHE:CE2	1:G:674:LEU:HB3	2.35	0.62
1:D:320:HIS:HB3	1:D:323:LEU:HD23	1.82	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:G:514:ILE:O	1:G:518:VAL:HG23	2.00	0.62
1:B:366:SER:HB3	1:B:369:PHE:HE1	1.65	0.61
1:B:511:TYR:HE1	1:B:570:GLU:HG3	1.46	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:G:383:ASP:HB3	1:G:384:LEU:HA	1.82	0.61
2:H:9:CYS:N	2:H:26:LYS:O	2.25	0.61
1:D:383:ASP:HB3	1:D:384:LEU:HA	1.82	0.61
1:B:542:VAL:HG11	1:E:598:LEU:CD1	2.30	0.61
1:G:253:SER:HA	1:G:287:VAL:HG13	1.81	0.61
2:F:18:HIS:O	2:F:30:TRP:CB	2.49	0.61
1:D:656:LYS:O	1:D:660:ILE:HD12	1.89	0.61
1:G:426:TRP:HA	1:G:430:VAL:CB	2.30	0.61
1:E:253:SER:HA	1:E:287:VAL:HG13	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:413:LEU:O	1:G:413:LEU:HD13	1.99	0.61
1:G:591:PHE:CG	1:G:666:TYR:CE1	2.86	0.61
1:D:188:GLN:HE21	1:D:188:GLN:H	1.46	0.61
1:D:426:TRP:CH2	1:D:701:ARG:NH1	2.66	0.61
1:B:580:PHE:CE2	1:B:674:LEU:HB3	2.35	0.61
1:E:374:TYR:HA	1:G:210:GLU:CG	2.31	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:346:ILE:HD13	1:B:410:HIS:CB	2.29	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:188:GLN:HE21	1:G:188:GLN:H	1.46	0.61
1:G:699:LEU:HD12	1:G:700:GLN:N	2.14	0.61
2:A:18:HIS:O	2:A:30:TRP:CB	2.49	0.61
1:D:366:SER:HB3	1:D:369:PHE:HE1	1.65	0.61
1:D:579:ARG:HH21	1:D:579:ARG:CG	2.14	0.61
1:B:579:ARG:HH21	1:B:579:ARG:CG	2.14	0.61
1:G:242:ARG:HB3	1:G:243:PRO:O	2.01	0.61
1:G:560:GLN:N	1:G:697:TRP:NE1	2.49	0.61
2:H:18:HIS:O	2:H:30:TRP:CB	2.49	0.61
1:D:198:TYR:CE1	1:D:242:ARG:CD	2.81	0.61
1:B:142:ARG:NE	1:B:183:THR:CG2	2.64	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:E:426:TRP:HA	1:E:430:VAL:CB	2.30	0.61
1:D:240:LYS:HZ2	1:D:240:LYS:HB3	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: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:E:320:HIS:HB3	1:E:323:LEU:HD23	1.82	0.61
1:E:383:ASP:HB3	1:E:384:LEU:HA	1.82	0.61
1:E:519:GLN:HB2	1:E:547:MET:CG	2.25	0.61
1:G:239:THR:OG1	1:G:241:GLY:CA	2.47	0.61
1:D:575:ARG:C	1:D:579:ARG:HD3	2.19	0.61
1:E:367:ARG:CG	1:E:367:ARG:HH11	2.14	0.61
1:E:579:ARG:HH21	1:E:579:ARG:CG	2.14	0.61
1:E:580:PHE:CE2	1:E:674:LEU:HB3	2.35	0.61
1:B:320:HIS:HB3	1:B:323:LEU:HD23	1.82	0.60
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:142:ARG:NE	1:G:183:THR:CG2	2.64	0.60
1:G:448:PHE:O	1:G:448:PHE:HD1	1.84	0.60
2:C:18:HIS:O	2:C:30:TRP:CB	2.49	0.60
1:D:448:PHE:CE2	1:D:544:SER:OG	2.54	0.60
1:D:514:ILE:O	1:D:518:VAL:HG23	2.00	0.60
1:D:598:LEU:CD1	1:G:542:VAL:HG11	2.31	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:G:366:SER:HB3	1:G:369:PHE:HE1	1.65	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
1:E:678:LEU:CD1	1:E:682:MET:HE2	2.30	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:D:580:PHE:CE2	1:D:674:LEU:HB3	2.35	0.60
1:D:638:PHE:CZ	1:B:668:ILE:HG22	2.35	0.60
1:B:383:ASP:HB3	1:B:384:LEU:HA	1.82	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:B:585:LEU:HD12	1:B:585:LEU:O	2.02	0.60
1:G:367:ARG:CG	1:G:367:ARG:HH11	2.14	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:CG	1:E:673:LEU:HD12	2.29	0.60
1:D:656:LYS:O	1:D:660:ILE:N	2.28	0.60
1:B:448:PHE:HD1	1:B:448:PHE:O	1.84	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:142:ARG:NE	1:D:183:THR:CG2	2.64	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: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:E:425:LYS:C	1:E:430:VAL:CG2	2.70	0.60
1:D:461:PRO:CB	1:D:530:TYR:CD1	2.85	0.60
1:D:585:LEU:HD12	1:D:585:LEU:O	2.02	0.60
1:E:448:PHE:HD1	1:E:448:PHE:O	1.84	0.60
1:E:585:LEU:HD12	1:E:585:LEU:O	2.02	0.60
1:G:198:TYR:CE1	1:G:242:ARG:CD	2.81	0.60
1:G:585:LEU:HD12	1:G:585:LEU:O	2.02	0.60
1:B:461:PRO:CB	1:B:530:TYR:CD1	2.85	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:579:ARG:HH21	1:G:579:ARG:CG	2.14	0.60
1:B:239:THR:OG1	1:B:241:GLY:CA	2.47	0.59
1:D:511:TYR:O	1:D:514:ILE:HG23	2.02	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:D:242:ARG:HB3	1:D:243:PRO:O	2.01	0.59
1:B:350:ALA:HB2	1:B:414:LEU:CD1	2.31	0.59
1:B:580:PHE:HZ	1:B:674:LEU:HD13	1.50	0.59
1:B:640:PHE:HE1	1:B:647:LEU:CD1	2.15	0.59
1:E:125:ASN:ND2	1:E:128:GLU:HG2	2.18	0.59
1:G:441:TYR:HE1	1:G:552:MET:HB2	1.66	0.59
1:G:511:TYR:O	1:G:514:ILE:HG23	2.02	0.59
1:G:603:LYS:HD3	1:G:636:GLU:CG	2.33	0.59
1:B:125:ASN:ND2	1:B:128:GLU:HG2	2.18	0.59
1:B:575:ARG:C	1:B:579:ARG:HD3	2.19	0.59
1:E:677:MET:O	1:E:681:LEU:CG	2.49	0.59
1:D:453:TYR:CD1	1:B:596:VAL:CG1	2.84	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:359:GLU:CB	1:D:360:PRO:HD2	2.33	0.59
1:D:640:PHE:CE1	1:D:647:LEU:CD1	2.86	0.59
1:B:242:ARG:HB3	1:B:243:PRO:O	2.01	0.59
1:B:521:LEU:CD1	1:B:522:PHE:HD2	2.15	0.59
1:E:239:THR:OG1	1:E:243:PRO:CB	2.45	0.59
1:E:359:GLU:CB	1:E:360:PRO:HD2	2.33	0.59
1:E:631:TYR:CD2	2:H:23:PRO:C	2.74	0.59
1:G:448:PHE:CE2	1:G:544:SER:OG	2.54	0.59
1:D:310:ASN:HB2	1:D:351:TYR:HH	1.67	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
1:E:631:TYR:CE2	2:H:23:PRO:O	2.55	0.59
1:G:239:THR:OG1	1:G:243:PRO:CB	2.45	0.59
2:C:7:GLY:O	2:C:28:CYS:N	2.36	0.59
1:D:242:ARG:CA	1:G:756:UNK:CB	2.52	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
1:G:575:ARG:NH1	1:G:575:ARG:HG3	2.18	0.59
1:D:499:ARG:HH11	1:D:499:ARG:CG	2.14	0.59
2:H:7:GLY:O	2:H:28:CYS:N	2.36	0.59
1:D:246:TYR:CE1	1:D:248:GLY:CA	2.86	0.59
1:B:640:PHE:CE1	1:B:647:LEU:CD1	2.86	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:521:LEU:HD11	1:E:522:PHE:CD2	2.30	0.59
2:F:7:GLY:O	2:F:28:CYS:N	2.36	0.59
1:D:521:LEU:CD1	1:D:522:PHE:HD2	2.15	0.58
1:D:631:TYR:OH	1:B:661:ILE:HD11	2.03	0.58
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:E:640:PHE:HE1	1:E:647:LEU:CD1	2.15	0.58
1:E:640:PHE:CE1	1:E:647:LEU:CD1	2.86	0.58
1:G:558:GLY:O	1:G:697:TRP:NE1	2.36	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
1:D:640:PHE:HE1	1:D:647:LEU:CD1	2.15	0.58
1:E:635:LEU:HD12	1:G:648:GLU:HG2	1.86	0.58
1:D:125:ASN:ND2	1:D:128:GLU:HG2	2.18	0.58
1:D:521:LEU:HD13	1:D:521:LEU:C	2.17	0.58
1:D:558:GLY:O	1:D:697:TRP:NE1	2.36	0.58
1:G:640:PHE:CE1	1:G:647:LEU:CD1	2.86	0.58
1:D:158:LEU:HD21	1:D:162:MET:HE2	1.85	0.58
1:D:452:ALA:O	1:B:597:THR:HB	2.03	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:350:ALA:HB2	1:E:414:LEU:CD1	2.31	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:G:640:PHE:HE1	1:G:647:LEU:CD1	2.15	0.58
1:D:375:GLY:N	1:B:210:GLU:CB	2.67	0.58
1:D:426:TRP:NE1	1:D:431:LYS:HA	2.19	0.58
1:B:239:THR:OG1	1:B:243:PRO:CB	2.45	0.58
1:E:384:LEU:CD2	1:E:387:ILE:N	2.55	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:B:631:TYR:OH	1:E:661:ILE:HD11	2.04	0.58
1:E:638:PHE:CZ	1:G:668:ILE:HG22	2.32	0.58
1:B:359:GLU:CB	1:B: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: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:G:359:GLU:CB	1:G:360:PRO:HD2	2.33	0.58
1:D:242:ARG:HH11	1:D:242:ARG:CG	2.17	0.58
1:D:350:ALA:HB2	1:D:414:LEU:CD1	2.31	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:310:ASN:HB2	1:B:351:TYR:HH	1.68	0.58
1:E:426:TRP:NE1	1:E:431:LYS:HA	2.19	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:G:426:TRP:CZ2	1:G:431:LYS:HA	2.39	0.58
1:D:498:GLN:HA	1:D:498:GLN:NE2	2.09	0.58
1:B:242:ARG:HH11	1:B:242:ARG:CG	2.17	0.58
1:G:246:TYR:CE1	1:G:248:GLY:CA	2.86	0.58
1:D:159:LEU:O	1:D:163:LEU:HD22	2.04	0.57
1:D:205:LEU:HA	1:D:220:LEU:HD23	1.86	0.57
1:D:408:ASN:OD1	1:D:409:ARG:N	2.37	0.57
1:G:240:LYS:NZ	1:G:240:LYS:HB3	2.20	0.57
1:B:240:LYS:NZ	1:B:240:LYS:HB3	2.19	0.57
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:E:575:ARG:NH1	1:E:575:ARG:HG3	2.18	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: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:D:575:ARG:NH1	1:D:575:ARG:HG3	2.18	0.57
1:B:246:TYR:CE1	1:B:248:GLY:CA	2.86	0.57
1:B:566:ALA:O	1:B:570:GLU:OE2	2.22	0.57
1:E:242:ARG:HH11	1:E:242:ARG:CG	2.17	0.57
1:E:349:LEU:HD23	1:E:349:LEU:C	2.25	0.57
1:E:639:LYS:HG2	1:G:647:LEU:CD2	2.22	0.57
2:A:7:GLY:O	2:A:28:CYS:N	2.36	0.57
1:D:240:LYS:HB3	1:D:240:LYS:NZ	2.20	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:E:408:ASN:OD1	1:E:409:ARG:N	2.37	0.57
1:G:175:LEU:O	1:G:179:VAL:HG23	2.05	0.57
1:G:349:LEU:HD23	1:G:349:LEU:C	2.25	0.57
1:G:408:ASN:OD1	1:G:409:ARG:N	2.37	0.57
2:A:9:CYS:N	2:A:26:LYS:O	2.25	0.57
1:D:426:TRP:CZ2	1:D:431:LYS:HA	2.39	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: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:247:PHE:CE1	1:B:254:LEU:HD13	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:421:LEU:HD23	1:B:425:LYS:HG3	1.87	0.57
1:E:159:LEU:O	1:E:163:LEU:HD22	2.04	0.57
1:G:159:LEU:O	1:G:163:LEU:HD22	2.04	0.57
1:G:247:PHE:CE1	1:G:254:LEU:HD13	2.40	0.57
1:G:559:PHE:N	1:G:559:PHE:CD2	2.73	0.57
1:G:579:ARG:NH2	1:G:579:ARG:HG2	2.19	0.57
1:D:349:LEU:HD23	1:D:349:LEU:C	2.25	0.57
1:D:566:ALA:O	1:D:570:GLU:OE2	2.22	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:175:LEU:O	1:D:179:VAL:HG23	2.04	0.57
1:B:349:LEU:HD23	1:B:349:LEU:C	2.25	0.57
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:158:LEU:HD21	1:B:162:MET:HE3	1.85	0.57
1:B:367:ARG:NH1	1:B:367:ARG:HG3	2.20	0.57
1:B:529:LEU:CB	1:B:537:TYR:HB2	2.35	0.57
1:B:575:ARG:NH1	1:B:575:ARG:HG3	2.18	0.57
1:E:510:SER:OG	1:E:513:GLU:CD	2.44	0.57
1:G:444:TYR:CE2	1:G:481:SER:HA	2.40	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:B:511:TYR:O	1:B:514:ILE:HG23	2.02	0.57
1:E:240:LYS:HB3	1:E:240:LYS:NZ	2.20	0.57
1:E:529:LEU:CB	1:E:537:TYR:HB2	2.35	0.57
1:E:639:LYS:CE	1:G:647:LEU:HB3	2.34	0.57
1:G:529:LEU:CB	1:G:537:TYR:HB2	2.35	0.57
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:D:579:ARG:NH2	1:D:579:ARG:HG2	2.19	0.56
1:B:375:GLY:N	1:E:210:GLU:CB	2.68	0.56
1:E:205:LEU:HA	1:E:220:LEU:HD23	1.86	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:G:584:TYR:OH	1:G:641:THR:HB	2.04	0.56
1:D:510:SER:OG	1:D:513:GLU:CD	2.44	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
1:G:600:GLU:O	1:G:628:ASN:OD1	2.24	0.56
1:D:425:LYS:C	1:D:430:VAL:CG2	2.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:529:LEU:CB	1:D:537:TYR:HB2	2.35	0.56
1:D:559:PHE:CD2	1:D:559:PHE:N	2.73	0.56
1:D:638:PHE:CE1	1:D:642:ILE:HD11	2.40	0.56
1:D:647:LEU:HB3	1:G:639:LYS:HE3	1.85	0.56
1:D:672:ILE:HG22	1:D:673:LEU:CD2	2.35	0.56
1:B:159:LEU:O	1:B:163:LEU:HD22	2.04	0.56
1:B:184:ASP:C	1:B:186:LEU:N	2.59	0.56
1:B:356:GLU:CB	1:B:368:LYS:O	2.54	0.56
1:B:510:SER:OG	1:B:513:GLU:CD	2.44	0.56
1:B:519:GLN:HB2	1:B:547:MET:CG	2.25	0.56
1:B:556:THR:O	1:B:559:PHE:CD2	2.57	0.56
1:B:579:ARG:NH2	1:B:579:ARG:HG2	2.19	0.56
1:E:356:GLU:CB	1:E:368:LYS:O	2.54	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:G:240:LYS:H	1:G:242:ARG:N	2.03	0.56
1:G:359:GLU:N	1:G:362:CYS:CB	2.64	0.56
1:G:453:TYR:CE2	1:G:454:TYR:CE1	2.89	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:B:240:LYS:H	1:B:242:ARG:N	2.03	0.56
1:B:599:ILE:HD12	1:B:599:ILE:H	1.69	0.56
1:E:286:THR:H	1:E:289:HIS:CD2	2.24	0.56
1:E:354:GLN:HG3	1:E:382:TYR:CD1	2.40	0.56
1:E:357:ILE:O	1:E:362:CYS:SG	2.63	0.56
1:E:559:PHE:CD2	1:E:559:PHE:N	2.73	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:G:426:TRP:NE1	1:G:431:LYS:HA	2.19	0.56
1:D:286:THR:H	1:D:289:HIS:CD2	2.24	0.56
1:D:600:GLU:O	1:D:628:ASN:OD1	2.23	0.56
1:B:285:ASN:HA	1:B:289:HIS:CD2	2.41	0.56
1:B:354:GLN:HG3	1:B:382:TYR:CD1	2.40	0.56
1:B:426:TRP:NE1	1:B:431:LYS:HA	2.19	0.56
1:B:511:TYR:O	1:B:515:LEU:HD12	2.05	0.56
1:E:444:TYR:CE2	1:E:481:SER:HA	2.40	0.56
1:E:600:GLU:O	1:E:628:ASN:OD1	2.24	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:G:421:LEU:HD23	1:G:425:LYS:HG3	1.87	0.56
1:D:180:ALA:O	1:D:185:SER:N	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:511:TYR:O	1:D:515:LEU:HD12	2.05	0.56
1:B:693:SER:O	1:B:694:LYS:C	2.41	0.56
1:E:180:ALA:O	1:E:185:SER:N	2.39	0.56
1:E:591:PHE:CD1	1:E:666:TYR:HD1	2.18	0.56
1:D:599:ILE:HD12	1:D:599:ILE:H	1.69	0.56
1:D:668:ILE:HG22	1:G:638:PHE:CZ	2.39	0.56
1:B:357:ILE:O	1:B:362:CYS:SG	2.63	0.56
1:B:529:LEU:C	1:B:532:SER:OG	2.44	0.56
1:B:584:TYR:OH	1:B:641:THR:HB	2.04	0.56
1:E:575:ARG:C	1:E:579:ARG:HD3	2.19	0.56
1:G:354:GLN:HG3	1:G:382:TYR:CD1	2.40	0.56
1:D:198:TYR:HE2	1:G:372:TRP:CD2	2.09	0.56
1:D:354:GLN:HG3	1:D:382:TYR:CD1	2.40	0.56
1:D:356:GLU:CB	1:D:368:LYS:O	2.54	0.56
1:D:482:VAL:N	1:D:523:MET:HE3	2.13	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:B:443:LEU:N	1:B:446:ILE:HD11	2.20	0.56
1:E:447:ILE:HD12	1:E:447:ILE:N	2.21	0.56
1:G:286:THR:H	1:G:289:HIS:CD2	2.24	0.56
1:D:344:GLY:HA3	1:D:407:PRO:HG2	1.88	0.56
1:D:481:SER:C	1:D:523:MET:HE1	2.12	0.56
1:E:344:GLY:HA3	1:E:407:PRO:HG2	1.88	0.56
1:E:529:LEU:C	1:E:532:SER:OG	2.44	0.56
1:E:599:ILE:HD12	1:E:599:ILE:H	1.69	0.56
1:G:180:ALA:O	1:G:185:SER:N	2.39	0.56
1:D:240:LYS:H	1:D:242:ARG:N	2.03	0.56
1:D:421:LEU:O	1:D:425:LYS:HG3	2.06	0.56
1:B:121:VAL:HG22	1:B:172:THR:CG2	2.33	0.56
1:B:349:LEU:CD2	1:B:353:LEU:HD12	2.36	0.56
1:B:421:LEU:O	1:B:425:LYS:HG3	2.06	0.56
1:B:444:TYR:CE2	1:B:481:SER:HA	2.40	0.56
1:B:639:LYS:HG2	1:E:647:LEU:CD2	2.20	0.56
1:E:349:LEU:CD2	1:E:353:LEU:HD12	2.36	0.56
1:G:285:ASN:HA	1:G:289:HIS:CD2	2.41	0.56
1:G:672:ILE:HG22	1:G:673:LEU:CD2	2.36	0.56
1:D:349:LEU:CD2	1:D:353:LEU:HD12	2.36	0.55
1:D:357:ILE:O	1:D:362:CYS:SG	2.63	0.55
1:B:564:ILE:HD11	1:B:693:SER:OG	2.06	0.55
1:G:349:LEU:CD2	1:G:353:LEU:HD12	2.36	0.55
1:D:285:ASN:HA	1:D:289:HIS:CD2	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:447:ILE:HD12	1:B:447:ILE:N	2.21	0.55
1:B:600:GLU:O	1:B:628:ASN:OD1	2.23	0.55
1:B:638:PHE:CE1	1:B:642:ILE:HD11	2.40	0.55
1:E:631:TYR:CG	2:H:24:THR:CB	2.89	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:421:LEU:HD21	1:D:425:LYS:HZ1	1.71	0.55
1:D:519:GLN:HB2	1:D:547:MET:CG	2.25	0.55
1:D:631:TYR:CD2	2:C:24:THR:N	2.67	0.55
1:B:180:ALA:O	1:B:185:SER:N	2.39	0.55
1:B:429:PHE:CD2	1:B:429:PHE:N	2.73	0.55
1:D:426:TRP:CE2	1:D:431:LYS:CA	2.89	0.55
1:B:349:LEU:HD23	1:B:353:LEU:HD12	1.88	0.55
1:B:631:TYR:CD2	2:F:23:PRO:C	2.79	0.55
1:B:672:ILE:HG22	1:B:673:LEU:CD2	2.36	0.55
1:E:349:LEU:HD23	1:E:353:LEU:HD12	1.88	0.55
1:E:603:LYS:HD3	1:E:636:GLU:CG	2.37	0.55
1:E:638:PHE:CE1	1:E:642:ILE:HD11	2.40	0.55
1:E:639:LYS:HE3	1:G:647:LEU:HB3	1.88	0.55
1:G:367:ARG:HH12	1:G:385:SER:H	0.79	0.55
1:D:184:ASP:C	1:D:186:LEU:N	2.59	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:B:246:TYR:CE1	1:B:248:GLY:HA3	2.41	0.55
1:B:678:LEU:CD1	1:B:682:MET:HE2	2.34	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:E:240:LYS:H	1:E:242:ARG:N	2.03	0.55
1:E:369:PHE:N	1:E:369:PHE:CD1	2.73	0.55
1:E:421:LEU:O	1:E:425:LYS:HG3	2.06	0.55
1:G:447:ILE:HD12	1:G:447:ILE:N	2.21	0.55
1:G:529:LEU:C	1:G:532:SER:OG	2.44	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:E:442:CYS:SG	1:E:552:MET:HE2	2.46	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:443:LEU:N	1:G:446:ILE:HD11	2.20	0.55
1:G:599:ILE:HD12	1:G:599:ILE:H	1.69	0.55
2:F:9:CYS:N	2:F:26:LYS:O	2.25	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:157:CYS:HB2	1:D:176:LEU:HD21	1.88	0.55
1:D:214:MET:HE3	1:D:218:THR:OG1	2.07	0.55
1:D:367:ARG:NH1	1:D:367:ARG:HG3	2.20	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:G:367:ARG:NH1	1:G:367:ARG:HG3	2.20	0.55
1:G:442:CYS:SG	1:G:552:MET:HE2	2.46	0.55
1:D:639:LYS:HG2	1:B:647:LEU:CD2	2.21	0.55
1:B:426:TRP:CE2	1:B:431:LYS:CA	2.89	0.55
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:447:ILE:N	1:D:447:ILE:HD12	2.20	0.54
1:B:369:PHE:N	1:B:369:PHE:CD1	2.73	0.54
1:B:559:PHE:CD2	1:B:559:PHE:N	2.73	0.54
1:B:591:PHE:CD1	1:B:666:TYR:HD1	2.18	0.54
1:E:498:GLN:HE21	1:E:498:GLN:CA	2.04	0.54
1:G:246:TYR:CE1	1:G:248:GLY:HA3	2.41	0.54
1:G:429:PHE:CD2	1:G:429:PHE:N	2.73	0.54
1:D:246:TYR:CE1	1:D:248:GLY:HA3	2.41	0.54
1:E:405:GLU:CB	1:E:407:PRO:CD	2.86	0.54
1:E:678:LEU:HD11	1:E:682:MET:HE3	1.85	0.54
1:D:443:LEU:N	1:D:446:ILE:HD11	2.20	0.54
1:D:474:ARG:HG3	1:D:475:VAL:N	2.23	0.54
1:B:371:GLU:O	1:B:372:TRP:HD1	1.90	0.54
1:E:240:LYS:HB3	1:E:240:LYS:HZ2	1.71	0.54
1:E:429:PHE:CD2	1:E:429:PHE:N	2.73	0.54
1:G:580:PHE:CE2	1:G:674:LEU:CD1	2.68	0.54
1:G:673:LEU:O	1:G:677:MET:HB3	2.08	0.54
2:C:9:CYS:N	2:C:26:LYS:O	2.25	0.54
1:D:603:LYS:HD3	1:D:636:GLU:CG	2.37	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: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:E:672:ILE:HG22	1:E:673:LEU:CD2	2.36	0.54
1:G:456:PRO:HG3	1:G:474:ARG:NH2	2.23	0.54
2:H:13:SER:CA	2:H:14:ASP:CB	2.85	0.54
1:D:214:MET:CE	1:D:218:THR:OG1	2.56	0.54
1:D:456:PRO:HG3	1:D:474:ARG:NH2	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:591:PHE:CB	1:B:666:TYR:CD1	2.91	0.54
1:B:673:LEU:O	1:B:677:MET:HB3	2.08	0.54
1:E:157:CYS:HB2	1:E:176:LEU:HD21	1.88	0.54
1:E:542:VAL:CG2	1:G:598:LEU:CD2	2.59	0.54
1:G:591:PHE:CD1	1:G:666:TYR:HD1	2.18	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
1:B:214:MET:HE2	1:B:218:THR:OG1	2.08	0.54
1:B:405:GLU:CB	1:B:407:PRO:CD	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:D:564:ILE:HG23	1:D:689:ILE:HG12	1.90	0.54
1:D:597:THR:HG22	1:G:453:TYR:N	2.23	0.54
1:B:240:LYS:HE3	1:B:242:ARG:HG2	1.90	0.54
1:G:157:CYS:HB2	1:G:176:LEU:HD21	1.89	0.54
1:G:421:LEU:CD2	1:G:425:LYS:CG	2.86	0.54
1:G:474:ARG:HG3	1:G:475:VAL:N	2.23	0.54
1:D:673:LEU:O	1:D:677:MET:HB3	2.08	0.54
1:E:374:TYR:O	1:E:376:PRO:N	2.41	0.54
1:E:693:SER:N	1:E:696:ILE:HG13	2.23	0.54
1:G:214:MET:CE	1:G:218:THR:OG1	2.56	0.54
1:G:521:LEU:CD1	1:G:522:PHE:HD2	2.15	0.54
1:D:320:HIS:CB	1:D:323:LEU:HD23	2.38	0.54
1:D:374:TYR:O	1:D:376:PRO:N	2.41	0.54
1:D:429:PHE:CD2	1:D:429:PHE:N	2.73	0.54
1:B:367:ARG:O	1:B:383:ASP:CB	2.56	0.54
1:B:583:VAL:HG12	1:B:674:LEU:HD11	1.90	0.54
1:E:564:ILE:HD11	1:E:693:SER:OG	2.06	0.54
1:E:591:PHE:CB	1:E:666:TYR:CD1	2.91	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
2:A:13:SER:CA	2:A:14:ASP:CB	2.85	0.54
1:D:673:LEU:CD1	1:G:572:MET:HG3	2.37	0.53
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:E:371:GLU:O	1:E:372:TRP:HD1	1.90	0.53
1:E:421:LEU:CD2	1:E:425:LYS:CG	2.86	0.53
1:E:546:ALA:HB2	1:G:594:ALA:HB2	1.90	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:369:PHE:N	1:D:369:PHE:CD1	2.73	0.53
1:D:482:VAL:HA	1:D:523:MET:HE2	1.79	0.53
1:G:320:HIS:CB	1:G:323:LEU:HD23	2.38	0.53
1:G:374:TYR:O	1:G:376:PRO:N	2.41	0.53
1:G:521:LEU:C	1:G:521:LEU:HD22	2.28	0.53
1:B:214:MET:CE	1:B:218:THR:OG1	2.56	0.53
1:B:320:HIS:CB	1:B:323:LEU:HD23	2.38	0.53
1:B:350:ALA:N	1:B:414:LEU:HD21	2.24	0.53
1:B:426:TRP:HZ3	1:B:701:ARG:HH12	1.43	0.53
1:B:635:LEU:HD12	1:E:648:GLU:HG2	1.90	0.53
1:E:426:TRP:HZ3	1:E:701:ARG:HH12	1.43	0.53
1:E:521:LEU:C	1:E:521:LEU:HD22	2.28	0.53
1:E:559:PHE:CA	1:E:697:TRP:NE1	2.68	0.53
1:E:583:VAL:HG12	1:E:674:LEU:HD11	1.90	0.53
1:G:350:ALA:N	1:G:414:LEU:HD21	2.24	0.53
1:G:371:GLU:O	1:G:372:TRP:HD1	1.90	0.53
1:G:602:GLY:O	1:G:603:LYS:HE2	2.09	0.53
1:G:692:GLU:O	1:G:695:ASN:N	2.42	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:474:ARG:HG3	1:B:475:VAL:N	2.23	0.53
1:B:559:PHE:CA	1:B:697:TRP:NE1	2.68	0.53
1:E:575:ARG:HG3	1:E:575:ARG:HH11	1.73	0.53
1:D:405:GLU:CB	1:D:407:PRO:CD	2.86	0.53
1:B:421:LEU:CD2	1:B:425:LYS:CG	2.86	0.53
1:B:592:SER:OG	1:B:630:LEU:HD11	2.09	0.53
1:B:672:ILE:CA	1:B:676:ASN:HD21	2.20	0.53
1:B:718:LYS:O	1:B:719:ALA:CB	2.57	0.53
1:E:240:LYS:N	1:E:241:GLY:CA	2.72	0.53
1:E:350:ALA:N	1:E:414:LEU:HD21	2.24	0.53
1:E:718:LYS:O	1:E:719:ALA:CB	2.57	0.53
1:G:564:ILE:HG23	1:G:689:ILE:HG12	1.90	0.53
1:G:718:LYS:O	1:G:719:ALA:CB	2.57	0.53
1:D:210:GLU:CB	1:G:375:GLY:N	2.70	0.53
1:D:426:TRP:NE1	1:D:431:LYS:CA	2.72	0.53
1:D:591:PHE:CB	1:D:666:TYR:CD1	2.91	0.53
1:D:631:TYR:CG	2:C:24:THR:CB	2.92	0.53
1:B:374:TYR:O	1:B:376:PRO:N	2.41	0.53
1:E:184:ASP:C	1:E:186:LEU:N	2.59	0.53
1:E:320:HIS:CB	1:E:323:LEU:HD23	2.38	0.53
1:E:375:GLY:N	1:G:210:GLU:CB	2.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:602:GLY:O	1:E:603:LYS:HE2	2.09	0.53
1:G:405:GLU:CB	1:G:407:PRO:CD	2.86	0.53
1:G:558:GLY:C	1:G:697:TRP:NE1	2.62	0.53
1:G:559:PHE:C	1:G:697:TRP:NE1	2.62	0.53
1:B:565:TYR:CD2	1:B:565:TYR:N	2.77	0.53
1:B:602:GLY:O	1:B:603:LYS:HE2	2.09	0.53
1:B:678:LEU:CD1	1:B:682:MET:CE	2.85	0.53
1:E:286:THR:H	1:E:289:HIS:HD2	1.57	0.53
1:E:474:ARG:HG3	1:E:475:VAL:N	2.23	0.53
1:E:538:VAL:O	1:E:541:MET:N	2.42	0.53
1:E:559:PHE:N	1:E:559:PHE:HD2	2.06	0.53
1:D:240:LYS:N	1:D:241:GLY:CA	2.72	0.53
1:D:640:PHE:HD1	1:D:667:VAL:HG22	1.74	0.53
1:D:693:SER:N	1:D:696:ILE:HG13	2.23	0.53
1:B:521:LEU:C	1:B:521:LEU:HD22	2.28	0.53
1:B:559:PHE:N	1:B:559:PHE:HD2	2.06	0.53
1:B:631:TYR:CG	2:F:24:THR:CB	2.90	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
2:C:8:GLY:HA2	2:C:27:TYR:HA	1.91	0.53
1:D:240:LYS:HE3	1:D:242:ARG:HG2	1.90	0.53
1:B:693:SER:N	1:B:696:ILE:HG13	2.23	0.53
1:E:367:ARG:O	1:E:383:ASP:CB	2.56	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:CD2	1:E:565:TYR:N	2.77	0.53
1:E:592:SER:OG	1:E:630:LEU:HD11	2.09	0.53
1:E:640:PHE:HD1	1:E:667:VAL:CG2	2.22	0.53
1:G:306:THR:OG1	1:G:351:TYR:CD1	2.55	0.53
1:G:559:PHE:N	1:G:559:PHE:HD2	2.06	0.53
1:G:583:VAL:HG12	1:G:674:LEU:HD11	1.90	0.53
1:G:592:SER:OG	1:G:630:LEU:HD11	2.09	0.53
2:F:8:GLY:HA2	2:F:27:TYR:HA	1.91	0.53
1:D:210:GLU:HA	1:G:375:GLY:HA3	1.90	0.53
1:D:559:PHE:C	1:D:697:TRP:NE1	2.62	0.53
1:D:575:ARG:HG3	1:D:575:ARG:HH11	1.73	0.53
1:D:661:ILE:HD11	1:G:631:TYR:OH	2.07	0.53
1:D:718:LYS:O	1:D:719:ALA:CB	2.57	0.53
1:B:426:TRP:NE1	1:B:431:LYS:CA	2.72	0.53
1:E:442:CYS:O	1:E:446:ILE:CD1	2.57	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:564:ILE:HG23	1:E:689:ILE:HG12	1.90	0.53
1:G:408:ASN:O	1:G:409:ARG:C	2.48	0.53
1:G:538:VAL:O	1:G:541:MET:N	2.42	0.53
1:G:575:ARG:HG3	1:G:575:ARG:HH11	1.73	0.53
2:F:13:SER:CA	2:F:14:ASP:CB	2.85	0.53
1:D:121:VAL:HG22	1:D:172:THR:CG2	2.33	0.52
1:D:565:TYR:CD2	1:D:565:TYR:N	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
1:G:240:LYS:HE3	1:G:242:ARG:HG2	1.90	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:D:602:GLY:O	1:D:603:LYS:HE2	2.09	0.52
1:D:631:TYR:CD2	2:C:23:PRO:C	2.82	0.52
1:B:240:LYS:N	1:B:241:GLY:CA	2.72	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:E:142:ARG:CZ	1:E:183:THR:HG22	2.39	0.52
1:E:240:LYS:HE3	1:E:242:ARG:HG2	1.90	0.52
1:E:521:LEU:CD1	1:E:522:PHE:HD2	2.15	0.52
1:G:240:LYS:N	1:G:241:GLY:CA	2.72	0.52
1:G:442:CYS:O	1:G:446:ILE:CD1	2.57	0.52
1:D:350:ALA:N	1:D:414:LEU:HD21	2.24	0.52
1:D:408:ASN:O	1:D:409:ARG:C	2.48	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
1:G:591:PHE:CB	1:G:666:TYR:CD1	2.91	0.52
1:G:640:PHE:HD1	1:G:667:VAL:HG22	1.74	0.52
2:C:13:SER:CA	2:C:14:ASP:CB	2.85	0.52
1:D:572:MET:CG	1:B:673:LEU:HD12	2.32	0.52
1:B:692:GLU:O	1:B:695:ASN:N	2.42	0.52
1:E:214:MET:CE	1:E:218:THR:OG1	2.56	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
2:A:8:GLY:HA2	2:A:26:LYS:O	2.10	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:B:575:ARG:HG3	1:B:575:ARG:HH11	1.73	0.52
1:G:369:PHE:N	1:G:369:PHE:CD1	2.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:640:PHE:HD1	1:G:667:VAL:CG2	2.22	0.52
1:G:668:ILE:CD1	1:G:669:LEU:N	2.73	0.52
1:D:142:ARG:CZ	1:D:183:THR:HG22	2.39	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:E:158:LEU:HD21	1:E:162:MET:HE3	1.90	0.52
1:E:631:TYR:CG	2:H:24:THR:CA	2.75	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
2:C:8:GLY:HA2	2:C:26:LYS:O	2.10	0.52
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:B:559:PHE:C	1:B:697:TRP:NE1	2.62	0.52
1:E:121:VAL:HG22	1:E:172:THR:CG2	2.33	0.52
1:E:417:PRO:O	1:E:421:LEU:HB2	2.09	0.52
1:G:142:ARG:CZ	1:G:183:THR:HG22	2.39	0.52
1:G:689:ILE:O	1:G:693:SER:HB3	2.10	0.52
1:G:710:LYS:NZ	1:G:710:LYS:CA	2.73	0.52
1:B:538:VAL:O	1:B:541:MET:N	2.42	0.52
1:G:421:LEU:HD21	1:G:425:LYS:HZ1	1.72	0.52
1:G:694:LYS:CB	1:G:694:LYS:NZ	2.73	0.52
1:D:367:ARG:O	1:D:383:ASP:CB	2.56	0.52
1:D:584:TYR:OH	1:D:641:THR:HB	2.04	0.52
1:B:142:ARG:CZ	1:B:183:THR:HG22	2.39	0.52
1:B:447:ILE:N	1:B:447:ILE:CD1	2.73	0.52
1:E:453:TYR:N	1:G:597:THR:HG22	2.25	0.52
1:G:631:TYR:CG	2:A:24:THR:CB	2.93	0.52
1:G:655:PHE:CB	1:G:658:VAL:HB	2.40	0.52
1:B:286:THR:H	1:B:289:HIS:HD2	1.57	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: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:B:694:LYS:CB	1:B:694:LYS:NZ	2.73	0.51
1:G:286:THR:H	1:G:289:HIS:HD2	1.57	0.51
1:G:426:TRP:HZ3	1:G:701:ARG:HH12	1.43	0.51
2:H:8:GLY:HA2	2:H:27:TYR:HA	1.91	0.51
1:D:429:PHE:H	1:D:429:PHE:HD2	1.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:640:PHE:HD1	1:D:667:VAL:CG2	2.22	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
2:A:8:GLY:HA2	2:A:27:TYR:HA	1.91	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: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: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:B:640:PHE:HD1	1:B:667:VAL:HG22	1.74	0.51
1:G:375:GLY:N	1:G:376:PRO:CD	2.74	0.51
1:G:429:PHE:H	1:G:429:PHE:HD2	1.58	0.51
1:B:421:LEU:CD2	1:B:425:LYS:NZ	2.73	0.51
2:H:8:GLY:HA2	2:H:26:LYS:O	2.10	0.51
1:D:417:PRO:O	1:D:421:LEU:HB2	2.10	0.51
1:B:554:TYR:O	1:B:557:ARG:HB2	2.11	0.51
1:E:434:PHE:HE1	1:E:555:TYR:HD1	1.59	0.51
1:E:554:TYR:O	1:E:557:ARG:HB2	2.11	0.51
1:G:580:PHE:HZ	1:G:674:LEU:CD1	2.01	0.51
1:D:375:GLY:N	1:D:376:PRO:CD	2.74	0.51
1:D:551:ASN:O	1:D:554:TYR:HB3	2.11	0.51
1:B:198:TYR:CD1	1:B:242:ARG:HD2	2.45	0.51
1:B:367:ARG:CG	1:B:367:ARG:NH1	2.73	0.51
1:B:546:ALA:HB2	1:E:594:ALA:HB2	1.92	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:E:694:LYS:NZ	1:E:694:LYS:CB	2.73	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:E:240:LYS:N	1:E:241:GLY:HA2	2.26	0.51
1:E:375:GLY:N	1:E:376:PRO:CD	2.74	0.51
1:G:441:TYR:O	1:G:445:MET:HG2	2.11	0.51
1:G:631:TYR:CD2	2:A:24:THR:N	2.70	0.51
1:D:673:LEU:HD12	1:G:572:MET:CG	2.35	0.51
1:D:710:LYS:NZ	1:D:710:LYS:CA	2.73	0.51
1:B:346:ILE:HG12	1:B:411:ASP:HA	1.93	0.51
1:B:441:TYR:O	1:B:445:MET:HG2	2.10	0.51
1:E:178:ASP:O	1:E:182:LYS:HG2	2.11	0.51
1:E:551:ASN:O	1:E:554:TYR:HB3	2.11	0.51
1:E:579:ARG:CG	1:E:579:ARG:NH2	2.73	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:353:LEU:HD21	1:D:386:CYS:SG	2.51	0.51
1:B:359:GLU:N	1:B:362:CYS:CB	2.64	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:E:453:TYR:CE2	1:E:454:TYR:CE1	2.89	0.51
1:E:657:ALA:O	1:E:660:ILE:HD11	2.11	0.51
1:G:447:ILE:N	1:G:447:ILE:CD1	2.73	0.51
1:G:551:ASN:O	1:G:554:TYR:HB3	2.11	0.51
1:D:286:THR:H	1:D:289:HIS:HD2	1.57	0.50
1:D:350:ALA:CA	1:D:414:LEU:HD21	2.42	0.50
1:D:417:PRO:O	1:D:421:LEU:CB	2.59	0.50
1:B:442:CYS:SG	1:B:552:MET:HE2	2.51	0.50
1:E:319:LEU:HB3	1:E:320:HIS:CD2	2.47	0.50
1:E:366:SER:HB3	1:E:369:PHE:CE1	2.46	0.50
1:E:565:TYR:H	1:E:565:TYR:HD2	1.59	0.50
1:D:127:GLN:HA	1:D:130:GLU:HG3	1.94	0.50
1:D:559:PHE:HB2	1:D:562:MET:HB2	1.91	0.50
1:D:591:PHE:CB	1:D:666:TYR:CE1	2.94	0.50
1:B:375:GLY:N	1:B:376:PRO:CD	2.74	0.50
1:B:445:MET:CE	1:B:445:MET:CA	2.86	0.50
1:B:565:TYR:H	1:B:565:TYR:HD2	1.59	0.50
1:B:580:PHE:CE2	1:B:674:LEU:CD1	2.68	0.50
1:B:655:PHE:CB	1:B:658:VAL:HB	2.40	0.50
1:E:375:GLY:HA3	1:G:210:GLU:HA	1.91	0.50
1:E:441:TYR:O	1:E:445:MET:HG2	2.10	0.50
1:D:178:ASP:O	1:D:182:LYS:HG2	2.11	0.50
1:D:240:LYS:NZ	1:D:240:LYS:CB	2.73	0.50
1:D:554:TYR:O	1:D:557:ARG:HB2	2.11	0.50
1:B:408:ASN:O	1:B:409:ARG:C	2.48	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:E:181:ARG:C	1:E:184:ASP:H	2.15	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:G:678:LEU:CD1	1:G:682:MET:CE	2.86	0.50
2:F:8:GLY:HA2	2:F:26:LYS:O	2.10	0.50
1:D:136:LEU:H	1:D:136:LEU:CD2	2.19	0.50
1:D:561:GLN:O	1:D:565:TYR:CE2	2.65	0.50
1:D:639:LYS:HE3	1:B:647:LEU:CB	2.42	0.50
1:B:240:LYS:N	1:B:241:GLY:HA2	2.26	0.50
1:B:319:LEU:HB3	1:B:320:HIS:CD2	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:158:LEU:HB2	1:E:189:PHE:CZ	2.47	0.50
1:E:678:LEU:CD1	1:E:682:MET:CE	2.86	0.50
1:B:353:LEU:HD21	1:B:386:CYS:SG	2.51	0.50
1:B:429:PHE:H	1:B:429:PHE:HD2	1.58	0.50
1:B:631:TYR:CE2	2:F:23:PRO:O	2.63	0.50
1:E:467:ASN:H	1:E:471:ASP:CB	2.25	0.50
1:E:631:TYR:OH	1:G:661:ILE:HD11	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:G:593:THR:O	1:G:597:THR:HG23	2.12	0.50
1:G:686:VAL:CA	1:G:689:ILE:CG2	2.89	0.50
1:D:374:TYR:O	1:D:375:GLY:C	2.50	0.50
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:198:TYR:CD1	1:E:242:ARG:HD2	2.45	0.50
1:E:350:ALA:CA	1:E:414:LEU:HD21	2.42	0.50
1:E:561:GLN:O	1:E:565:TYR:CE2	2.65	0.50
1:G:240:LYS:NZ	1:G:240:LYS:CB	2.73	0.50
1:G:568:MET:HB3	1:G:689:ILE:HD11	1.78	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:B:467:ASN:H	1:B:471:ASP:CB	2.25	0.50
1:B:499:ARG:NH1	1:B:499:ARG:CG	2.73	0.50
1:E:346:ILE:HG12	1:E:411:ASP:HA	1.93	0.50
1:E:429:PHE:H	1:E:429:PHE:HD2	1.58	0.50
1:E:591:PHE:HB2	1:E:666:TYR:CE1	2.46	0.50
1:G:374:TYR:O	1:G:375:GLY:C	2.50	0.50
1:G:417:PRO:O	1:G:421:LEU:CB	2.59	0.50
1:G:591:PHE:HB2	1:G:666:TYR:CE1	2.46	0.50
1:D:442:CYS:SG	1:D:552:MET:HE2	2.52	0.50
1:D:467:ASN:H	1:D:471:ASP:CB	2.25	0.50
1:D:498:GLN:HE21	1:D:498:GLN:CA	2.04	0.50
1:D:589:PHE:CD1	1:D:589:PHE:C	2.86	0.50
1:D:591:PHE:HB2	1:D:666:TYR:CE1	2.46	0.50
1:B:558:GLY:C	1:B:697:TRP:HE1	2.16	0.50
1:E:448:PHE:HD1	1:E:448:PHE:C	2.15	0.50
1:G:367:ARG:CG	1:G:367:ARG:NH1	2.73	0.50
1:G:499:ARG:NH1	1:G:499:ARG:CG	2.73	0.50
1:G:631:TYR:CD2	2:A:23:PRO:C	2.85	0.50
1:D:686:VAL:CA	1:D:689:ILE:CG2	2.89	0.50
1:B:127:GLN:HA	1:B:130:GLU:HG3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:136:LEU:H	1:B:136:LEU:CD2	2.19	0.50
1:B:565:TYR:N	1:B:565:TYR:HD2	2.09	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:G:346:ILE:HG12	1:G:411:ASP:HA	1.93	0.50
1:G:350:ALA:CA	1:G:414:LEU:HD21	2.42	0.50
1:G:353:LEU:HB3	1:G:354:GLN:HE22	1.77	0.50
1:G:421:LEU:CD2	1:G:425:LYS:NZ	2.73	0.50
1:D:181:ARG:C	1:D:184:ASP:H	2.15	0.49
1:D:353:LEU:HB3	1:D:354:GLN:HE22	1.77	0.49
1:D:453:TYR:CE2	1:D:454:TYR:CE1	2.89	0.49
1:D:546:ALA:HB2	1:B:594:ALA:HB2	1.94	0.49
1:D:565:TYR:N	1:D:565:TYR:HD2	2.10	0.49
1:B:350:ALA:CA	1:B:414:LEU:HD21	2.42	0.49
1:B:434:PHE:HE1	1:B:555:TYR:HD1	1.59	0.49
1:B:453:TYR:CE2	1:B:454:TYR:CE1	2.89	0.49
1:B:498:GLN:HE21	1:B:498:GLN:CA	2.04	0.49
1:E:383:ASP:CB	1:E:384:LEU:HA	2.42	0.49
1:E:417:PRO:O	1:E:421:LEU:CB	2.59	0.49
1:E:579:ARG:HH21	1:E:579:ARG:HG2	1.76	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:G:589:PHE:CD1	1:G:589:PHE:C	2.86	0.49
1:D:591:PHE:CD1	1:D:666:TYR:CD1	2.97	0.49
1:D:668:ILE:HD12	1:D:669:LEU:CA	2.43	0.49
1:B:247:PHE:CZ	1:B:254:LEU:HD13	2.48	0.49
1:B:593:THR:O	1:B:597:THR:HG23	2.12	0.49
1:E:374:TYR:O	1:E:375:GLY:C	2.50	0.49
1:E:441:TYR:CE1	1:E:552:MET:CG	2.96	0.49
1:G:467:ASN:H	1:G:471:ASP:CB	2.25	0.49
1:D:158:LEU:HB2	1:D:189:PHE:CZ	2.47	0.49
1:D:351:TYR:C	1:D:351:TYR:CD2	2.86	0.49
1:D:558:GLY:C	1:D:697:TRP:HE1	2.15	0.49
1:G:158:LEU:HB2	1:G:189:PHE:CZ	2.47	0.49
1:G:181:ARG:C	1:G:184:ASP:H	2.15	0.49
1:G:498:GLN:NE2	1:G:498:GLN:CA	2.73	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:D:565:TYR:HD2	1:D:565:TYR:H	1.59	0.49
1:B:353:LEU:HB3	1:B:354:GLN:HE22	1.77	0.49
1:B:453:TYR:C	1:B:453:TYR:CD2	2.86	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:559:PHE:C	1:B:697:TRP:HD1	2.15	0.49
1:B:591:PHE:HB2	1:B:666:TYR:CE1	2.46	0.49
1:E:445:MET:CE	1:E:445:MET:CA	2.86	0.49
1:E:517:PHE:C	1:E:517:PHE:CD2	2.86	0.49
1:E:565:TYR:N	1:E:565:TYR:HD2	2.09	0.49
1:E:655:PHE:CB	1:E:658:VAL:HB	2.40	0.49
1:E:656:LYS:O	1:E:660:ILE:N	2.28	0.49
1:G:247:PHE:CZ	1:G:254:LEU:HD13	2.48	0.49
1:G:319:LEU:HB3	1:G:320:HIS:CD2	2.47	0.49
1:G:353:LEU:HD21	1:G:386:CYS:SG	2.51	0.49
1:B:351:TYR:C	1:B:351:TYR:CD2	2.86	0.49
1:B:655:PHE:HD1	2:C:11:VAL:CA	2.22	0.49
1:E:247:PHE:CZ	1:E:254:LEU:HD13	2.48	0.49
1:E:449:THR:CB	1:E:545:LEU:HD21	2.42	0.49
1:G:448:PHE:HD1	1:G:448:PHE:C	2.15	0.49
1:G:565:TYR:H	1:G:565:TYR:HD2	1.59	0.49
1:D:239:THR:OG1	1:D:243:PRO:CB	2.45	0.49
1:D:448:PHE:C	1:D:448:PHE:CD1	2.86	0.49
1:D:635:LEU:HD12	1:B:648:GLU:HG2	1.93	0.49
1:D:672:ILE:CA	1:D:676:ASN:HD21	2.21	0.49
1:B:441:TYR:CE1	1:B:552:MET:CG	2.96	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:240:LYS:N	1:D:241:GLY:HA2	2.26	0.49
1:D:242:ARG:CG	1:D:242:ARG:NH1	2.75	0.49
1:D:319:LEU:HB3	1:D:320:HIS:CD2	2.47	0.49
1:B:158:LEU:HD21	1:B:162:MET:HE2	1.94	0.49
1:B:441:TYR:CE1	1:B:445:MET:SD	3.06	0.49
1:E:198:TYR:HE1	1:E:242:ARG:CD	2.22	0.49
1:E:354:GLN:NE2	1:E:354:GLN:N	2.60	0.49
1:E:438:PHE:CE1	1:E:442:CYS:SG	3.06	0.49
1:E:710:LYS:NZ	1:E:710:LYS:CA	2.73	0.49
1:G:657:ALA:O	1:G:660:ILE:HD11	2.11	0.49
1:G:668:ILE:HD12	1:G:669:LEU:CA	2.43	0.49
1:D:499:ARG:NH1	1:D:499:ARG:CG	2.73	0.49
1:B:181:ARG:C	1:B:184:ASP:H	2.15	0.49
1:B:239:THR:HG1	1:B:243:PRO:HB3	1.72	0.49
1:B:438:PHE:CE1	1:B:442:CYS:SG	3.06	0.49
1:E:453:TYR:C	1:E:453:TYR:CD2	2.86	0.49
1:G:449:THR:CB	1:G:545:LEU:HD21	2.42	0.49
2:H:9:CYS:CB	2:H:21:CYS:HG	2.22	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:579:ARG:HH21	1:D:579:ARG:HG2	1.76	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:B:442:CYS:HB3	1:B:552:MET:CE	2.43	0.49
1:E:142:ARG:CD	1:E:183:THR:CG2	2.91	0.49
1:E:571:LYS:HE3	1:E:575:ARG:HG3	1.89	0.49
1:G:354:GLN:NE2	1:G:354:GLN:N	2.60	0.49
1:G:441:TYR:CE1	1:G:552:MET:CG	2.96	0.49
1:G:453:TYR:C	1:G:453:TYR:CD2	2.86	0.49
1:G:656:LYS:O	1:G:660:ILE:N	2.28	0.49
1:D:448:PHE:HD1	1:D:448:PHE:C	2.15	0.49
1:D:453:TYR:CD2	1:D:453:TYR:C	2.86	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:G:351:TYR:C	1:G:351:TYR:CD2	2.86	0.49
1:G:441:TYR:CE1	1:G:445:MET:SD	3.06	0.49
1:G:565:TYR:N	1:G:565:TYR:HD2	2.10	0.49
1:D:247:PHE:CZ	1:D:254:LEU:HD13	2.48	0.48
1:D:517:PHE:C	1:D:517:PHE:CD2	2.86	0.48
1:B:366:SER:HB3	1:B:369:PHE:CE1	2.46	0.48
1:B:448:PHE:HD1	1:B:448:PHE:C	2.15	0.48
1:B:517:PHE:C	1:B:517:PHE:CD2	2.86	0.48
1:B:579:ARG:CG	1:B:579:ARG:NH2	2.73	0.48
1:B:668:ILE:HD12	1:B:669:LEU:CA	2.43	0.48
1:E:242:ARG:CG	1:E:242:ARG:NH1	2.75	0.48
1:E:589:PHE:CD1	1:E:589:PHE:C	2.86	0.48
1:G:438:PHE:CE1	1:G:442:CYS:SG	3.06	0.48
1:G:521:LEU:HD13	1:G:521:LEU:C	2.17	0.48
1:D:508:VAL:HG12	1:D:509:ASP:N	2.28	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:438:PHE:C	1:B:438:PHE:CD1	2.86	0.48
1:B:589:PHE:CD1	1:B:589:PHE:C	2.86	0.48
1:G:687:ASN:N	1:G:687:ASN:ND2	2.60	0.48
1:D:366:SER:HB3	1:D:369:PHE:CE1	2.46	0.48
1:D:374:TYR:CA	1:B:210:GLU:CG	2.88	0.48
1:D:442:CYS:HB3	1:D:552:MET:CE	2.43	0.48
1:B:383:ASP:CB	1:B:384:LEU:HA	2.42	0.48
1:E:508:VAL:HG12	1:E:509:ASP:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:657:ALA:O	1:E:660:ILE:CD1	2.62	0.48
1:G:448:PHE:CZ	1:G:544:SER:OG	2.59	0.48
1:G:571:LYS:HE3	1:G:575:ARG:HG3	1.89	0.48
1:D:158:LEU:O	1:D:158:LEU:CD2	2.62	0.48
1:D:631:TYR:CE2	2:C:23:PRO:O	2.66	0.48
1:B:449:THR:CB	1:B:545:LEU:HD21	2.43	0.48
1:E:558:GLY:C	1:E:697:TRP:HE1	2.15	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:G:538:VAL:CG1	1:G:539:ALA:H	2.27	0.48
1:G:631:TYR:CE2	2:A:23:PRO:O	2.66	0.48
1:D:354:GLN:NE2	1:D:354:GLN:N	2.60	0.48
1:D:449:THR:CB	1:D:545:LEU:HD21	2.42	0.48
1:E:351:TYR:C	1:E:351:TYR: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:158:LEU:HD21	1:D:162:MET:HE3	1.95	0.48
1:D:441:TYR:CE1	1:D:445:MET:SD	3.06	0.48
1:D:655:PHE:CB	1:D:658:VAL:HB	2.40	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:G:142:ARG:CD	1:G:183:THR:CG2	2.91	0.48
1:G:214:MET:HE3	1:G:218:THR:OG1	2.13	0.48
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: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: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:B:639:LYS:HB3	1:B:639:LYS:HE2	1.76	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:E:565:TYR:O	1:E:568:MET:HG2	2.14	0.48
1:G:434:PHE:HE1	1:G:555:TYR:HD1	1.59	0.48
1:G:442:CYS:HB3	1:G:552:MET:CE	2.43	0.48
1:D:237:LYS:HB2	1:D:237:LYS:HE3	1.66	0.48
1:D:374:TYR:C	1:D:376:PRO:CD	2.82	0.48
1:D:657:ALA:O	1:D:660:ILE:HD11	2.11	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:158:LEU:CD2	1:G:162:MET:HE2	2.44	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:B:354:GLN:NE2	1:B:354:GLN:N	2.60	0.48
1:B:374:TYR:C	1:B:376:PRO:CD	2.82	0.48
1:B:448:PHE:C	1:B:448:PHE:CD1	2.86	0.48
1:E:158:LEU:O	1:E:158:LEU:CD2	2.61	0.48
1:E:668:ILE:HD12	1:E:669:LEU:CA	2.43	0.48
1:G:354:GLN:NE2	1:G:354:GLN:CA	2.77	0.48
1:E:354:GLN:NE2	1:E:354:GLN:CA	2.77	0.48
1:E:359:GLU:N	1:E:362:CYS:CB	2.64	0.48
1:G:508:VAL:HG12	1:G:509:ASP:N	2.28	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:G:663:LEU:HD23	1:G:663:LEU:HA	1.78	0.48
1:D:565:TYR:O	1:D:568:MET:HG2	2.14	0.47
1:B:441:TYR:CE1	1:B:552:MET:HG3	2.49	0.47
1:B:568:MET:CE	1:B:689:ILE:CD1	2.89	0.47
1:E:205:LEU:O	1:E:209:ILE:HG13	2.14	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:448:PHE:C	1:E:448:PHE:CD1	2.86	0.47
1:E:575:ARG:CG	1:E:575:ARG:HH11	2.27	0.47
1:G:441:TYR:CE1	1:G:552:MET:HG3	2.49	0.47
1:D:306:THR:HG23	1:D:351:TYR:HE1	1.79	0.47
1:D:660:ILE:CD1	1:D:660:ILE:H	2.18	0.47
1:B:354:GLN:NE2	1:B:354:GLN:CA	2.77	0.47
1:B:508:VAL:HG12	1:B:509:ASP:N	2.28	0.47
1:B:575:ARG:CG	1:B:575:ARG:HH11	2.27	0.47
1:B:579:ARG:HH21	1:B:579:ARG:HG2	1.76	0.47
1:E:538:VAL:CG1	1:E:539:ALA:H	2.27	0.47
1:G:374:TYR:C	1:G:376:PRO:CD	2.82	0.47
1:G:575:ARG:CG	1:G:575:ARG:HH11	2.27	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: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:D:453:TYR:N	1:B:597:THR:HG22	2.29	0.47
1:B:563:GLY:O	1:B:567:VAL:HG23	2.15	0.47
1:E:239:THR:HG1	1:E:243:PRO:HB3	1.74	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:367:ARG:HH11	1:E:367:ARG:HG3	1.78	0.47
1:E:542:VAL:CG2	1:G:598:LEU:HD23	2.34	0.47
1:G:205:LEU:O	1:G:209:ILE:HG13	2.14	0.47
1:G:429:PHE:N	1:G:429:PHE:HD2	2.12	0.47
1:G:660:ILE:HG12	1:G:661:ILE:N	2.29	0.47
1:D:129:LEU:HD22	1:D:132:LEU:HD22	1.97	0.47
1:B:453:TYR:CE2	1:B:454:TYR:CZ	3.01	0.47
1:E:129:LEU:HD22	1:E:132:LEU:HD22	1.97	0.47
1:E:438:PHE:C	1:E:438:PHE:CD1	2.86	0.47
1:E:452:ALA:C	1:G:597:THR:HB	2.35	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: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:D:429:PHE:N	1:D:429:PHE:HD2	2.12	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:B:438:PHE:CD1	1:B:442:CYS:SG	3.08	0.47
1:E:172:THR:O	1:E:176:LEU:HB2	2.15	0.47
1:E:240:LYS:NZ	1:E:240:LYS:CB	2.73	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
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
2:C:9:CYS:O	2:C:10:SER:C	2.52	0.47
1:D:239:THR:HA	1:D:243:PRO:HA	1.97	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:B:692:GLU:O	1:B:696:ILE:HG13	2.15	0.47
1:E:353:LEU:HD21	1:E:386:CYS:SG	2.51	0.47
1:E:549:TRP:CZ3	1:E:552:MET:SD	3.01	0.47
1:G:367:ARG:HH11	1:G:367:ARG:HG3	1.78	0.47
1:D:529:LEU:CB	1:D:537:TYR:CB	2.93	0.47
1:D:657:ALA:O	1:D:660:ILE:CD1	2.62	0.47
1:B:129:LEU:HD22	1:B:132:LEU:HD22	1.97	0.47
1:B:239:THR:HA	1:B:243:PRO:HA	1.97	0.47
1:B:240:LYS:NZ	1:B:240:LYS:CB	2.73	0.47
1:E:239:THR:HA	1:E:243:PRO:HA	1.97	0.47
1:E:438:PHE:CD1	1:E:442:CYS:SG	3.08	0.47
1:E:444:TYR:HE2	1:E:480:LEU:O	1.98	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:172:THR:O	1:G:176:LEU:HB2	2.15	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:G:426:TRP:CD1	1:G:430:VAL:HG12	2.48	0.47
1:G:529:LEU:CB	1:G:537:TYR:CB	2.93	0.47
1:G:565:TYR:O	1:G:568:MET:HG2	2.14	0.47
1:G:571:LYS:CE	1:G:575:ARG:CG	2.65	0.47
1:D:383:ASP:CB	1:D:384:LEU:HA	2.42	0.47
1:D:660:ILE:HG12	1:D:661:ILE:N	2.29	0.47
1:B:519:GLN:CB	1:B:547:MET:HG2	2.29	0.47
1:B:660:ILE:HG12	1:B:661:ILE:N	2.29	0.47
1:E:441:TYR:CE1	1:E:552:MET:HG3	2.49	0.47
1:G:242:ARG:HB3	1:G:243:PRO:C	2.36	0.47
1:G:563:GLY:O	1:G:567:VAL:HG23	2.15	0.47
2:H:3:ARG:O	2:H:4:LYS:O	2.33	0.47
2:H:9:CYS:O	2:H:10:SER:C	2.52	0.47
1:D:198:TYR:HE1	1:D:242:ARG:CD	2.22	0.47
1:B:538:VAL:O	1:B:539:ALA:C	2.53	0.47
1:B:568:MET:HB3	1:B:689:ILE:HD11	1.78	0.47
1:G:570:GLU:O	1:G:574:LEU:HD23	2.14	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:B:115:ARG:O	1:B:115:ARG:HD3	2.15	0.47
1:B:172:THR:O	1:B:176:LEU:HB2	2.15	0.47
1:B:444:TYR:HE2	1:B:480:LEU:O	1.98	0.47
1:E:686:VAL:C	1:E:689:ILE:HG23	2.34	0.47
1:G:129:LEU:HD22	1:G:132:LEU:HD22	1.97	0.47
1:G:445:MET:CE	1:G:445:MET:CA	2.86	0.47
1:D:438:PHE:CD1	1:D:442:CYS:SG	3.08	0.46
1:D:538:VAL:CG1	1:D:539:ALA:H	2.27	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:B:538:VAL:CG1	1:B:539:ALA:H	2.27	0.46
1:E:242:ARG:HB3	1:E:243:PRO:C	2.36	0.46
1:E:564:ILE:HG13	1:E:693:SER:HB2	1.84	0.46
1:G:538:VAL:O	1:G:539:ALA:C	2.53	0.46
2:F:9:CYS:O	2:F:10:SER:C	2.52	0.46
1:D:115:ARG:O	1:D:115:ARG:HD3	2.15	0.46
1:D:172:THR:O	1:D:176:LEU:HB2	2.15	0.46
1:D:563:GLY:O	1:D:567:VAL:HG23	2.15	0.46
1:D:575:ARG:CG	1:D:575:ARG:HH11	2.27	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:442:CYS:SG	1:B:552:MET:CE	3.03	0.46
1:B:453:TYR:N	1:E:597:THR:HG22	2.30	0.46
1:B:686:VAL:C	1:B:689:ILE:HG23	2.34	0.46
1:E:660:ILE:HG12	1:E:661:ILE:N	2.29	0.46
1:G:366:SER:HB3	1:G:369:PHE:CE1	2.46	0.46
1:D:584:TYR:CZ	1:D:641:THR:CB	2.98	0.46
1:B:529:LEU:CB	1:B:537:TYR:CB	2.93	0.46
1:E:421:LEU:CD2	1:E:425:LYS:NZ	2.73	0.46
1:E:529:LEU:CB	1:E:537:TYR:CB	2.93	0.46
1:G:115:ARG:O	1:G:115:ARG:HD3	2.15	0.46
1:G:444:TYR:HE2	1:G:480:LEU:O	1.98	0.46
1:G:672:ILE:CA	1:G:676:ASN:HD21	2.21	0.46
2:C:3:ARG:O	2:C:4:LYS:O	2.33	0.46
1:D:442:CYS:SG	1:D:552:MET:CE	3.03	0.46
1:D:586:VAL:HG13	1:D:587:PHE:N	2.30	0.46
1:E:694:LYS:HB2	1:E:694:LYS:HZ2	1.81	0.46
1:G:383:ASP:CB	1:G:384:LEU:HA	2.42	0.46
1:G:442:CYS:SG	1:G:552:MET:CE	3.04	0.46
1:G:710:LYS:CE	1:G:710:LYS:CA	2.86	0.46
1:D:445:MET:CE	1:D:445:MET:CA	2.86	0.46
1:D:519:GLN:CB	1:D:547:MET:HG2	2.29	0.46
1:D:538:VAL:O	1:D:539:ALA:C	2.53	0.46
1:D:577:LEU:HD13	1:D:577:LEU:O	2.16	0.46
1:B:571:LYS:HE3	1:B:575:ARG:HG3	1.89	0.46
1:B:758:UNK:CB	1:E:245:PHE:HB3	2.37	0.46
1:E:136:LEU:H	1:E:136:LEU:CD2	2.19	0.46
1:E:499:ARG:NH1	1:E:499:ARG:CG	2.73	0.46
1:G:184:ASP:C	1:G:186:LEU:N	2.59	0.46
1:D:136:LEU:HD23	1:D:136:LEU:N	2.21	0.46
1:D:426:TRP:CD1	1:D:430:VAL:HG12	2.48	0.46
1:B:678:LEU:HD12	1:B:678:LEU:O	2.16	0.46
1:E:546:ALA:HB2	1:G:594:ALA:CB	2.45	0.46
1:E:549:TRP:CD1	1:G:590:GLY:HA2	2.51	0.46
1:E:586:VAL:HG13	1:E:587:PHE:N	2.30	0.46
1:E:710:LYS:HA	1:E:710:LYS:HZ1	1.80	0.46
1:G:158:LEU:HD21	1:G:162:MET:HE3	1.97	0.46
1:G:471:ASP:O	1:G:475:VAL:HG21	2.16	0.46
1:G:598:LEU:O	1:G:599:ILE:HG23	2.16	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:D:242:ARG:HB3	1:D:243:PRO:C	2.36	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:638:PHE:O	1:B:641:THR:HG22	2.16	0.46
1:G:403:SER:C	1:G:404:SER:OG	2.54	0.46
1:G:577:LEU:HD13	1:G:577:LEU:O	2.16	0.46
1:G:580:PHE:HZ	1:G:674:LEU:HA	1.79	0.46
1:D:580:PHE:CZ	1:D:674:LEU:CG	2.96	0.46
1:D:594:ALA:HB2	1:G:546:ALA:HB2	1.98	0.46
1:D:597:THR:HB	1:G:452:ALA:C	2.35	0.46
1:D:678:LEU:HD12	1:D:678:LEU:O	2.16	0.46
1:B:516:PHE:CZ	1:B:554:TYR:HD2	2.34	0.46
1:B:667:VAL:O	1:B:670:THR:HG22	2.15	0.46
1:E:115:ARG:O	1:E:115:ARG:HD3	2.15	0.46
1:E:580:PHE:CZ	1:E:674:LEU:CG	2.96	0.46
1:G:545:LEU:O	1:G:545:LEU:HD23	2.16	0.46
2:F:3:ARG:O	2:F:4:LYS:O	2.33	0.46
1:E:403:SER:C	1:E:404:SER:OG	2.54	0.46
1:E:516:PHE:CZ	1:E:554:TYR:HD2	2.34	0.46
1:E:545:LEU:O	1:E:545:LEU:HD23	2.16	0.46
1:E:638:PHE:O	1:E:641:THR:HG22	2.16	0.46
1:E:667:VAL:O	1:E:670:THR:HG22	2.15	0.46
1:E:687:ASN:ND2	1:E:687:ASN:N	2.60	0.46
2:A:3:ARG:O	2:A:4:LYS:O	2.33	0.46
1:D:142:ARG:NE	1:D:183:THR:HG22	2.31	0.46
1:B:384:LEU:CD2	1:B:387:ILE:N	2.55	0.46
1:B:577:LEU:HD13	1:B:577:LEU:O	2.16	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:G:667:VAL:O	1:G:670:THR:HG22	2.15	0.46
1:D:367:ARG:HH11	1:D:367:ARG:HG3	1.78	0.45
1:D:403:SER:C	1:D:404:SER:OG	2.54	0.45
1:D:516:PHE:CZ	1:D:554:TYR:HD2	2.34	0.45
1:D:545:LEU:HD23	1:D:545:LEU:O	2.16	0.45
1:D:655:PHE:HD1	2:A:11:VAL:CA	2.22	0.45
1:D:657:ALA:C	1:D:660:ILE:HD13	2.36	0.45
1:B:142:ARG:NE	1:B:183:THR:HG22	2.31	0.45
1:B:580:PHE:CZ	1:B:674:LEU:CA	2.92	0.45
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:240:LYS:HD3	1:G:242:ARG:HG2	1.98	0.45
1:G:442:CYS:CB	1:G:552:MET:CE	2.94	0.45
1:G:580:PHE:CZ	1:G:674:LEU:CG	2.96	0.45
1:D:598:LEU:O	1:D:599:ILE:HG23	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:242:ARG:CG	1:B:242:ARG:NH1	2.75	0.45
1:B:403:SER:C	1:B:404:SER:OG	2.54	0.45
1:B:442:CYS:CB	1:B:552:MET:CE	2.94	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:E:580:PHE:CZ	1:E:674:LEU:CA	2.92	0.45
1:E:678:LEU:HD12	1:E:678:LEU:O	2.16	0.45
1:G:584:TYR:CZ	1:G:641:THR:CB	2.98	0.45
1:D:678:LEU:CD1	1:D:682:MET:HE2	2.43	0.45
1:B:158:LEU:O	1:B:158:LEU:CD2	2.61	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:E:442:CYS:CB	1:E:552:MET:CE	2.94	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
1:E:598:LEU:O	1:E:599:ILE:HG23	2.16	0.45
1:E:655:PHE:CB	2:F:10:SER:O	2.64	0.45
1:E:693:SER:C	1:E:696:ILE:HD11	2.31	0.45
1:G:142:ARG:NE	1:G:183:THR:HG22	2.31	0.45
1:D:673:LEU:O	1:D:677:MET:CB	2.64	0.45
1:D:760:UNK:HA	1:D:761:UNK:C	2.47	0.45
1:B:549:TRP:CZ3	1:B:552:MET:SD	3.01	0.45
1:E:538:VAL:O	1:E:539:ALA:C	2.53	0.45
1:E:577:LEU:HD13	1:E:577:LEU:O	2.16	0.45
1:G:651:GLU:H	1:G:651:GLU:HG3	1.54	0.45
1:D:359:GLU:CB	1:D:360:PRO:CD	2.94	0.45
1:D:442:CYS:C	1:D:446:ILE:HD11	2.37	0.45
1:D:571:LYS:HE3	1:D:575:ARG:HG3	1.89	0.45
1:D:655:PHE:CB	2:A:10:SER:O	2.64	0.45
1:B:434:PHE:CE1	1:B:555:TYR:CD1	3.02	0.45
1:B:493:ILE:O	1:B:497:LEU:N	2.43	0.45
1:B:586:VAL:HG13	1:B:587:PHE:N	2.30	0.45
1:B:598:LEU:O	1:B:599:ILE:HG23	2.16	0.45
1:E:673:LEU:O	1:E:677:MET:CB	2.64	0.45
1:G:516:PHE:CZ	1:G:554:TYR:HD2	2.34	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:D:638:PHE:O	1:D:641:THR:HG22	2.16	0.45
1:D:663:LEU:HD23	1:D:663:LEU:HA	1.77	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:442:CYS:C	1:B:446:ILE:HD11	2.37	0.45
1:B:655:PHE:CB	2:C:10:SER:O	2.64	0.45
1:E:214:MET:HE3	1:E:218:THR:OG1	2.16	0.45
1:E:240:LYS:HD3	1:E:242:ARG:HG2	1.98	0.45
1:E:442:CYS:C	1:E:446:ILE:HD11	2.37	0.45
1:E:449:THR:CB	1:E:545:LEU:HD11	2.46	0.45
1:G:306:THR:HG23	1:G:351:TYR:HE1	1.79	0.45
1:D:158:LEU:CD2	1:D:162:MET:HE2	2.47	0.45
1:D:421:LEU:HD23	1:D:421:LEU:C	2.37	0.45
1:D:549:TRP:CZ3	1:D:552:MET:SD	3.01	0.45
1:D:580:PHE:HZ	1:D:674:LEU:HA	1.79	0.45
1:D:667:VAL:O	1:D:670:THR:HG22	2.15	0.45
1:E:359:GLU:CB	1:E:360:PRO:CD	2.94	0.45
1:E:639:LYS:HE3	1:G:647:LEU:CB	2.47	0.45
1:E:682:MET:HE1	1:G:672:ILE:O	2.17	0.45
1:G:657:ALA:HA	1:G:660:ILE:HD12	1.77	0.45
1:G:686:VAL:HA	1:G:689:ILE:HG21	1.97	0.45
1:D:442:CYS:CB	1:D:552:MET:CE	2.94	0.45
1:D:580:PHE:CZ	1:D:674:LEU:CA	2.92	0.45
1:B:354:GLN:HE21	1:B:354:GLN:HA	1.82	0.45
1:E:306:THR:HG23	1:E:351:TYR:HE1	1.79	0.45
1:E:564:ILE:CG1	1:E:693:SER:OG	2.62	0.45
1:G:242:ARG:CG	1:G:242:ARG:NH1	2.75	0.45
1:G:306:THR:O	1:G:351:TYR:OH	2.33	0.45
1:G:357:ILE:N	1:G:366:SER:HG	1.97	0.45
1:G:421:LEU:HD23	1:G:421:LEU:C	2.37	0.45
1:G:579:ARG:HH21	1:G:579:ARG:HG2	1.76	0.45
1:G:655:PHE:CB	2:H:10:SER:O	2.64	0.45
1:D:306:THR:OG1	1:D:351:TYR:CD1	2.55	0.45
1:D:375:GLY:HA2	1:B:210:GLU:CA	2.46	0.45
1:D:434:PHE:HE1	1:D:555:TYR:HD1	1.59	0.45
1:D:682:MET:HE1	1:B:672:ILE:O	2.17	0.45
1:B:449:THR:CB	1:B:545:LEU:HD11	2.46	0.45
1:B:657:ALA:O	1:B:661:ILE:HD11	1.95	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:G:516:PHE:HE2	1:G:554:TYR:HE2	1.65	0.45
1:G:580:PHE:CZ	1:G:674:LEU:CA	2.92	0.45
1:G:673:LEU:O	1:G:677:MET:CB	2.64	0.45
1:G:760:UNK:HA	1:G:761:UNK:C	2.47	0.45
1:D:240:LYS:HD3	1:D:242:ARG:HG2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:242:ARG:CB	1:D:243:PRO:CA	2.95	0.45
1:D:568:MET:HB3	1:D:689:ILE:HD11	1.78	0.45
1:B:673:LEU:O	1:B:677:MET:CB	2.64	0.45
1:G:449:THR:CB	1:G:545:LEU:HD11	2.46	0.45
1:G:487:TYR:CD2	1:G:487:TYR:O	2.70	0.45
1:G:586:VAL:HG13	1:G:587:PHE:N	2.30	0.45
1:D:354:GLN:HA	1:D:354:GLN:HE21	1.82	0.44
1:D:516:PHE:HE2	1:D:554:TYR:HE2	1.65	0.44
1:D:647:LEU:CB	1:G:639:LYS:HE3	2.47	0.44
1:B:441:TYR:HE1	1:B:552:MET:CG	2.30	0.44
1:B:488:PHE:HB2	1:B:520:SER:CB	2.45	0.44
1:B:760:UNK:HA	1:B:761:UNK:C	2.46	0.44
1:B:516:PHE:HE2	1:B:554:TYR:HE2	1.65	0.44
1:B:564:ILE:CG1	1:B:693:SER:OG	2.62	0.44
1:B:687:ASN:ND2	1:B:687:ASN:N	2.60	0.44
1:B:710:LYS:HA	1:B:710:LYS:HZ1	1.80	0.44
1:E:654:ASP:O	1:E:655:PHE:CD2	2.71	0.44
1:E:655:PHE:HD1	2:F:11:VAL:CA	2.22	0.44
1:G:136:LEU:HD23	1:G:136:LEU:N	2.21	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:G:472:TYR:CD1	1:G:472:TYR:O	2.70	0.44
2:F:2:CYS:C	2:F:16:CYS:SG	2.96	0.44
1:D:472:TYR:CD1	1:D:472:TYR:O	2.70	0.44
1:D:487:TYR:O	1:D:487:TYR:CD2	2.70	0.44
1:B:261:LEU:HD21	1:B:311:GLU:HG2	2.00	0.44
1:B:498:GLN:NE2	1:B:498:GLN:CA	2.73	0.44
1:B:591:PHE:CD1	1:B:666:TYR:CD1	2.97	0.44
1:E:384:LEU:HD21	1:E:387:ILE:CA	2.48	0.44
1:E:487:TYR:CD2	1:E:487:TYR:O	2.70	0.44
1:E:516:PHE:HE2	1:E:554:TYR:HE2	1.65	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:G:346:ILE:HG12	1:G:411:ASP:CA	2.48	0.44
1:G:359:GLU:CB	1:G:360:PRO:CD	2.94	0.44
1:G:519:GLN:CB	1:G:547:MET:HG2	2.29	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:H:2:CYS:C	2:H:16:CYS:SG	2.96	0.44
1:D:664:LEU:HG	1:G:638:PHE:CD1	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:472:TYR:O	1:B:472:TYR:CD1	2.70	0.44
1:B:599:ILE:N	1:B:599:ILE:CD1	2.73	0.44
1:E:188:GLN:H	1:E:188:GLN:NE2	2.13	0.44
1:E:560:GLN:HA	1:E:697:TRP:CG	2.52	0.44
1:E:651:GLU:H	1:E:651:GLU:HG3	1.54	0.44
1:G:403:SER:O	1:G:404:SER:OG	2.34	0.44
1:G:635:LEU:HD22	1:G:635:LEU:HA	1.79	0.44
1:D:449:THR:CB	1:D:545:LEU:HD11	2.46	0.44
1:D:511:TYR:O	1:D:511:TYR:CD2	2.70	0.44
1:B:306:THR:HG23	1:B:351:TYR:HE1	1.79	0.44
1:B:511:TYR:O	1:B:511:TYR:CD2	2.70	0.44
1:B:584:TYR:O	1:B:584:TYR:CD1	2.71	0.44
1:B:648:GLU:OE2	1:B:648:GLU:HA	2.17	0.44
1:E:350:ALA:HB2	1:E:414:LEU:HD21	2.00	0.44
1:E:693:SER:N	1:E:696:ILE:CG1	2.81	0.44
1:E:760:UNK:HA	1:E:761:UNK:C	2.46	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:467:ASN:N	1:D:471:ASP:CB	2.81	0.44
1:D:568:MET:HE3	1:D:689:ILE:CD1	2.48	0.44
1:B:371:GLU:O	1:B:372:TRP:CD1	2.71	0.44
1:E:237:LYS:HB2	1:E:237:LYS:HE3	1.67	0.44
1:E:584:TYR:O	1:E:584:TYR:CD1	2.71	0.44
1:G:242:ARG:CB	1:G:243:PRO:CA	2.95	0.44
1:G:559:PHE:N	1:G:697:TRP:HE1	2.16	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:D:639:LYS:HE2	1:D:639:LYS:HB3	1.76	0.44
1:B:188:GLN:H	1:B:188:GLN:NE2	2.13	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:E:511:TYR:O	1:E:511:TYR:CD2	2.70	0.44
1:E:559:PHE:N	1:E:697:TRP:HE1	2.16	0.44
1:G:356:GLU:C	1:G:366:SER:OG	2.54	0.44
1:G:442:CYS:C	1:G:446:ILE:HD11	2.37	0.44
2:A:2:CYS:C	2:A:16:CYS:SG	2.96	0.44
2:C:2:CYS:C	2:C:16:CYS:SG	2.96	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:B:239:THR:C	1:B:241:GLY:HA2	2.39	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:421:LEU:HD23	1:B:421:LEU:C	2.37	0.44
1:B:654:ASP:O	1:B:655:PHE:CD2	2.71	0.44
1:B:696:ILE:HG13	1:B:696:ILE:H	1.57	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:572:MET:HB2	1:G:673:LEU:CD1	2.35	0.44
1:E:663:LEU:HD23	1:E:663:LEU:HA	1.78	0.44
1:E:693:SER:O	1:E:696:ILE:HD12	2.18	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:G:654:ASP:O	1:G:655:PHE:CD2	2.71	0.44
1:D:654:ASP:O	1:D:655:PHE:CD2	2.71	0.43
1:B:350:ALA:HB2	1:B:414:LEU:HD21	2.00	0.43
1:B:487:TYR:CD2	1:B:487:TYR:O	2.70	0.43
1:B:675:LEU:HD13	1:B:675:LEU:HA	1.81	0.43
1:B:760:UNK:CA	1:B:761:UNK:CB	2.86	0.43
1:E:538:VAL:HG11	1:G:655:PHE:CZ	2.53	0.43
1:E:656:LYS:C	1:E:660:ILE:HD12	2.32	0.43
1:G:441:TYR:HE1	1:G:552:MET:CG	2.30	0.43
1:G:584:TYR:CD1	1:G:584:TYR:O	2.71	0.43
1:G:657:ALA:C	1:G:660:ILE:HD13	2.36	0.43
1:D:239:THR:C	1:D:241:GLY:HA2	2.38	0.43
1:D:269:GLN:HE22	1:D:318:LYS:NZ	2.16	0.43
1:D:346:ILE:HG12	1:D:411:ASP:CA	2.48	0.43
1:D:434:PHE:CE1	1:D:555:TYR:CD1	3.02	0.43
1:D:462:PRO:HA	1:D:463:TYR:C	2.39	0.43
1:D:596:VAL:CG1	1:G:453:TYR:CE1	2.92	0.43
1:D:648:GLU:OE2	1:D:648:GLU:HA	2.17	0.43
1:B:359:GLU:CB	1:B:360:PRO:CD	2.94	0.43
1:E:142:ARG:C	1:E:144:THR:H	2.22	0.43
1:E:269:GLN:HE22	1:E:318:LYS:NZ	2.16	0.43
1:E:441:TYR:CD1	1:E:552:MET:HG3	2.54	0.43
1:E:675:LEU:HD13	1:E:675:LEU:HA	1.81	0.43
1:G:158:LEU:HD22	1:G:158:LEU:C	2.39	0.43
1:G:510:SER:OG	1:G:513:GLU:CG	2.66	0.43
1:G:511:TYR:O	1:G:511:TYR:CD2	2.70	0.43
2:A:9:CYS:O	2:A:10:SER:C	2.52	0.43
1:B:584:TYR:CZ	1:B:641:THR:CB	2.98	0.43
1:E:158:LEU:HD22	1:E:158:LEU:C	2.39	0.43
1:E:421:LEU:HD23	1:E:421:LEU:C	2.37	0.43
1:E:635:LEU:HD22	1:E:635:LEU:HA	1.79	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:441:TYR:CD1	1:G:552:MET:HG3	2.54	0.43
1:B:158:LEU:HD22	1:B:158:LEU:C	2.39	0.43
1:B:240:LYS:N	1:B:242:ARG:N	2.66	0.43
1:B:560:GLN:HA	1:B:697:TRP:CG	2.51	0.43
1:E:242:ARG:CB	1:E:243:PRO:CA	2.95	0.43
1:E:346:ILE:HG12	1:E:411:ASP:CA	2.48	0.43
1:E:510:SER:OG	1:E:513:GLU:CG	2.66	0.43
1:E:514:ILE:C	1:E:514:ILE:CD1	2.86	0.43
1:E:638:PHE:CD1	1:G:664:LEU:HG	2.53	0.43
1:G:493:ILE:O	1:G:497:LEU:N	2.43	0.43
1:G:514:ILE:C	1:G:514:ILE:CD1	2.86	0.43
1:G:710:LYS:HA	1:G:710:LYS:HZ1	1.81	0.43
1:D:350:ALA:HB2	1:D:414:LEU:HD21	2.00	0.43
1:D:356:GLU:C	1:D:366:SER:OG	2.54	0.43
1:D:686:VAL:HA	1:D:689:ILE:HG21	1.97	0.43
1:B:269:GLN:HE22	1:B:318:LYS:NZ	2.16	0.43
1:B:441:TYR:CD1	1:B:552:MET:HG3	2.54	0.43
1:B:448:PHE:CD1	1:B:545:LEU:HG	2.54	0.43
1:B:570:GLU:O	1:B:574:LEU:HD23	2.14	0.43
1:B:589:PHE:CE1	1:B:593:THR:HG21	2.54	0.43
1:E:261:LEU:HD21	1:E:311:GLU:HG2	2.00	0.43
1:E:471:ASP:O	1:E:475:VAL:HG21	2.16	0.43
1:G:214:MET:HE2	1:G:218:THR:OG1	2.18	0.43
1:G:269:GLN:HE22	1:G:318:LYS:NZ	2.16	0.43
1:G:589:PHE:CE1	1:G:593:THR:HG21	2.54	0.43
1:G:693:SER:C	1:G:696:ILE:CD1	2.86	0.43
1:D:158:LEU:HD22	1:D:158:LEU:C	2.39	0.43
1:D:384:LEU:HD21	1:D:387:ILE:CA	2.48	0.43
1:D:441:TYR:CE2	1:D:445:MET:SD	3.12	0.43
1:D:441:TYR:CD1	1:D:552:MET:HG3	2.54	0.43
1:D:559:PHE:N	1:D:697:TRP:HE1	2.16	0.43
1:D:672:ILE:HA	1:D:676:ASN:ND2	2.26	0.43
1:B:346:ILE:HG12	1:B:411:ASP:CA	2.48	0.43
1:B:510:SER:OG	1:B:513:GLU:CG	2.66	0.43
1:B:693:SER:O	1:B:696:ILE:HD12	2.18	0.43
1:E:384:LEU:CD2	1:E:384:LEU:C	2.86	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:G:462:PRO:HA	1:G:463:TYR:C	2.39	0.43
1:G:568:MET:HE3	1:G:689:ILE:CD1	2.48	0.43
1:D:577:LEU:C	1:D:577:LEU:CD1	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:B:631:TYR:CG	2:F:24:THR:CA	2.73	0.43
1:E:239:THR:C	1:E:241:GLY:HA2	2.38	0.43
1:E:353:LEU:HB2	1:E:354:GLN:OE1	2.19	0.43
1:E:441:TYR:HE1	1:E:552:MET:CG	2.30	0.43
1:E:586:VAL:CG1	1:E:587:PHE:N	2.82	0.43
1:G:693:SER:O	1:G:696:ILE:HD12	2.18	0.43
1:D:357:ILE:N	1:D:366:SER:HG	2.03	0.43
1:D:510:SER:OG	1:D:513:GLU:CG	2.66	0.43
1:B:406:THR:N	1:B:407:PRO:CD	2.82	0.43
1:B:559:PHE:N	1:B:697:TRP:HE1	2.16	0.43
1:B:640:PHE:CD1	1:B:667:VAL:CG2	3.02	0.43
1:E:455:ARG:NH2	1:E:538:VAL:HG21	2.22	0.43
1:G:390:CYS:O	1:G:392:LYS:O	2.37	0.43
1:G:414:LEU:HD12	1:G:415:VAL:H	1.84	0.43
1:D:198:TYR:CE2	1:G:372:TRP:HZ3	2.04	0.43
1:D:306:THR:O	1:D:351:TYR:OH	2.33	0.43
1:D:384:LEU:CD2	1:D:387:ILE:N	2.55	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:D:560:GLN:HA	1:D:697:TRP:CG	2.52	0.43
1:D:564:ILE:CG1	1:D:693:SER:OG	2.62	0.43
1:D:584:TYR:CD1	1:D:584:TYR:O	2.71	0.43
1:D:599:ILE:N	1:D:599:ILE:CD1	2.73	0.43
1:B:295:ALA:HA	1:B:301:ASN:HD21	1.84	0.43
1:B:353:LEU:HB2	1:B:354:GLN:OE1	2.19	0.43
1:B:656:LYS:CA	1:B:659:PHE:HB3	2.49	0.43
1:E:390:CYS:O	1:E:392:LYS:O	2.37	0.43
1:E:648:GLU:OE2	1:E:648:GLU:HA	2.17	0.43
1:D:295:ALA:HA	1:D:301:ASN:HD21	1.84	0.43
1:D:438:PHE:O	1:D:438:PHE:CD1	2.72	0.43
1:D:635:LEU:HD22	1:D:635:LEU:HA	1.79	0.43
1:B:240:LYS:HB3	1:B:240:LYS:HZ2	1.82	0.43
1:B:390:CYS:O	1:B:392:LYS:O	2.37	0.43
1:B:682:MET:HE1	1:E:672:ILE:O	2.18	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:E:672:ILE:CA	1:E:676:ASN:ND2	2.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:G:384:LEU:HD21	1:G:387:ILE:CA	2.48	0.43
1:G:421:LEU:CD2	1:G:421:LEU:C	2.87	0.43
1:G:448:PHE:O	1:G:448:PHE:CD1	2.70	0.43
1:G:591:PHE:CD1	1:G:666:TYR:CD1	2.97	0.43
1:G:668:ILE:CG1	1:G:669:LEU:N	2.82	0.43
1:D:586:VAL:CG1	1:D:587:PHE:N	2.82	0.42
1:D:656:LYS:CA	1:D:659:PHE:HB3	2.49	0.42
1:D:662:LEU:HD23	1:D:662:LEU:HA	1.81	0.42
1:B:357:ILE:N	1:B:366:SER:HG	2.03	0.42
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:E:589:PHE:CE1	1:E:593:THR:HG21	2.54	0.42
1:G:353:LEU:HB2	1:G:354:GLN:OE1	2.19	0.42
1:D:254:LEU:HD11	1:G:376:PRO:HD3	2.02	0.42
1:D:406:THR:N	1:D:407:PRO:CD	2.82	0.42
1:D:693:SER:N	1:D:696:ILE:CG1	2.81	0.42
1:B:142:ARG:C	1:B:144:THR:H	2.22	0.42
1:B:242:ARG:CB	1:B:243:PRO:CA	2.95	0.42
1:B:384:LEU:HD21	1:B:387:ILE:CA	2.48	0.42
1:B:487:TYR:CD2	1:B:487:TYR:C	2.93	0.42
1:E:371:GLU:O	1:E:372:TRP:CD1	2.71	0.42
1:E:584:TYR:O	1:E:588:LEU:HB3	2.19	0.42
1:G:371:GLU:O	1:G:372:TRP:CD1	2.71	0.42
1:D:330:ASN:O	1:D:331:ARG:C	2.56	0.42
1:D:640:PHE:CD1	1:D:667:VAL:CG2	3.02	0.42
1:D:762:UNK:O	1:B:212:ARG:NH2	2.53	0.42
1:B:414:LEU:HD12	1:B:415:VAL:H	1.84	0.42
1:B:426:TRP:CD1	1:B:430:VAL:HG12	2.47	0.42
1:B:516:PHE:CE2	1:B:554:TYR:CE2	3.07	0.42
1:E:448:PHE:CD1	1:E:545:LEU:HG	2.54	0.42
1:E:482:VAL:N	1:E:523:MET:HE3	2.24	0.42
1:E:516:PHE:CE2	1:E:554:TYR:CE2	3.07	0.42
1:E:656:LYS:CA	1:E:659:PHE:HB3	2.49	0.42
1:G:448:PHE:CD1	1:G:545:LEU:HG	2.54	0.42
1:G:640:PHE:CD1	1:G:667:VAL:CG2	3.02	0.42
1:D:589:PHE:CE1	1:D:593:THR:HG21	2.54	0.42
1:D:693:SER:C	1:D:696:ILE:CD1	2.86	0.42
1:B:679:ILE:HA	1:B:682:MET:HG3	2.01	0.42
1:E:406:THR:N	1:E:407:PRO:CD	2.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:414:LEU:HD12	1:E:415:VAL:H	1.84	0.42
1:E:570:GLU:O	1:E:574:LEU:HD23	2.14	0.42
1:G:406:THR:N	1:G:407:PRO:CD	2.82	0.42
1:G:693:SER:N	1:G:696:ILE:CG1	2.81	0.42
1:D:414:LEU:HD12	1:D:415:VAL:H	1.84	0.42
1:B:383:ASP:HB3	1:B:384:LEU:CA	2.48	0.42
1:B:403:SER:O	1:B:404:SER:OG	2.35	0.42
1:B:572:MET:HB2	1:E:673:LEU:CD1	2.41	0.42
1:B:575:ARG:NH1	1:B:575:ARG:CG	2.83	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:G:487:TYR:CD2	1:G:487:TYR:C	2.93	0.42
1:G:639:LYS:HE2	1:G:639:LYS:HB3	1.76	0.42
1:D:188:GLN:H	1:D:188:GLN:NE2	2.13	0.42
1:D:261:LEU:HD21	1:D:311:GLU:HG2	2.00	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:E:514:ILE:HD13	1:E:514:ILE:O	2.20	0.42
1:E:580:PHE:HZ	1:E:674:LEU:CG	2.33	0.42
1:G:349:LEU:HD23	1:G:349:LEU:O	2.20	0.42
1:G:514:ILE:HD13	1:G:514:ILE:O	2.20	0.42
1:G:580:PHE:HZ	1:G:674:LEU:CG	2.33	0.42
1:D:494:GLN:O	1:D:498:GLN:N	2.34	0.42
1:D:516:PHE:CE2	1:D:554:TYR:CE2	3.07	0.42
1:B:136:LEU:HD23	1:B:136:LEU:N	2.21	0.42
1:E:295:ALA:HA	1:E:301:ASN:HD21	1.84	0.42
1:E:354:GLN:N	1:E:354:GLN:CD	2.73	0.42
1:E:383:ASP:HB3	1:E:384:LEU:CA	2.48	0.42
1:E:438:PHE:O	1:E:438:PHE:CD1	2.72	0.42
1:E:657:ALA:HA	1:E:660:ILE:HD12	1.77	0.42
1:E:657:ALA:C	1:E:660:ILE:HD13	2.36	0.42
1:E:693:SER:C	1:E:696:ILE:CD1	2.86	0.42
1:G:434:PHE:CE1	1:G:555:TYR:CD1	3.02	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:G:656:LYS:CA	1:G:659:PHE:HB3	2.49	0.42
1:D:142:ARG:C	1:D:144:THR:H	2.22	0.42
1:D:421:LEU:CD2	1:D:421:LEU:C	2.88	0.42
1:B:237:LYS:HB2	1:B:237:LYS:HE3	1.66	0.42
1:B:306:THR:O	1:B:351:TYR:OH	2.33	0.42
1:E:242:ARG:CB	1:E:243:PRO:HA	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:357:ILE:N	1:E:366:SER:HG	1.97	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:136:LEU:H	1:G:136:LEU:CD2	2.19	0.42
1:G:142:ARG:NE	1:G:183:THR:HG21	2.34	0.42
1:G:453:TYR:CE2	1:G:454:TYR:CZ	3.01	0.42
1:G:679:ILE:HA	1:G:682:MET:HG3	2.01	0.42
1:G:760:UNK:CA	1:G:761:UNK:CB	2.86	0.42
1:D:354:GLN:N	1:D:354:GLN:CD	2.73	0.42
1:D:452:ALA:C	1:B:597:THR:HB	2.40	0.42
1:B:276:ASP:C	1:B:276:ASP:OD1	2.59	0.42
1:B:349:LEU:HD23	1:B:349:LEU:O	2.20	0.42
1:B:421:LEU:CD2	1:B:421:LEU:C	2.88	0.42
1:B:656:LYS:C	1:B:660:ILE:HD12	2.32	0.42
1:G:350:ALA:HB2	1:G:414:LEU:HD21	2.00	0.42
1:G:638:PHE:C	1:G:641:THR:HG22	2.41	0.42
1:D:276:ASP:OD1	1:D:276:ASP:C	2.58	0.42
1:D:371:GLU:O	1:D:372:TRP:CD1	2.71	0.42
1:D:487:TYR:CD2	1:D:487:TYR:C	2.93	0.42
1:B:354:GLN:N	1:B:354:GLN:CD	2.73	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
1:G:242:ARG:CB	1:G:243:PRO:HA	2.50	0.42
1:G:354:GLN:N	1:G:354:GLN:CD	2.73	0.42
1:D:448:PHE:CD1	1:D:545:LEU:HG	2.54	0.41
1:D:668:ILE:CG1	1:D:669:LEU:N	2.82	0.41
1:B:413:LEU:C	1:B:413:LEU:CD1	2.86	0.41
1:B:452:ALA:C	1:E:597:THR:HB	2.40	0.41
1:B:568:MET:CB	1:B:689:ILE:HD13	2.37	0.41
1:E:434:PHE:CE1	1:E:555:TYR:CD1	3.02	0.41
1:E:662:LEU:HD23	1:E:662:LEU:HA	1.81	0.41
1:G:295:ALA:HA	1:G:301:ASN:HD21	1.84	0.41
1:D:158:LEU:CD2	1:D:158:LEU:C	2.89	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:D:514:ILE:HD13	1:D:514:ILE:O	2.20	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:G:384:LEU:HD23	1:G:386:CYS:SG	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:586:VAL:CG1	1:G:587:PHE:N	2.82	0.41
1:D:240:LYS:N	1:D:242:ARG:N	2.66	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:B:471:ASP:O	1:B:475:VAL:HG21	2.16	0.41
1:B:514:ILE:HD13	1:B:514:ILE:O	2.20	0.41
1:E:516:PHE:O	1:E:520:SER:OG	2.39	0.41
1:G:560:GLN:HA	1:G:697:TRP:CG	2.52	0.41
1:D:295:ALA:HB3	1:D:345:LYS:HD2	2.03	0.41
1:D:374:TYR:C	1:D:376:PRO:HD2	2.41	0.41
1:D:679:ILE:HA	1:D:682:MET:HG3	2.01	0.41
1:B:384:LEU:HD22	1:B:387:ILE:H	1.72	0.41
1:B:546:ALA:HB2	1:E:594:ALA:CB	2.49	0.41
1:B:762:UNK:O	1:E:212:ARG:NH2	2.54	0.41
1:E:276:ASP:OD1	1:E:276:ASP:C	2.59	0.41
1:E:384:LEU:HD23	1:E:386:CYS:SG	2.61	0.41
1:E:549:TRP:CE3	1:E:549:TRP:HA	2.55	0.41
1:E:577:LEU:C	1:E:577:LEU:CD1	2.86	0.41
1:D:384:LEU:HD23	1:D:386:CYS:SG	2.61	0.41
1:D:668:ILE:HD12	1:D:669:LEU:HA	2.03	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: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:E:679:ILE:HA	1:E:682:MET:HG3	2.01	0.41
1:E:710:LYS:CE	1:E:710:LYS:CA	2.86	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:G:713:LEU:HD13	1:G:713:LEU:HA	1.86	0.41
2:A:9:CYS:CB	2:A:21:CYS:HG	2.28	0.41
1:D:542:VAL:CG2	1:B:598:LEU:HD23	2.41	0.41
1:B:581:MET:O	1:B:581:MET:SD	2.79	0.41
1:E:448:PHE:O	1:E:448:PHE:CD1	2.70	0.41
1:E:488:PHE:HB2	1:E:520:SER:CB	2.45	0.41
1:E:668:ILE:HD12	1:E:669:LEU:HA	2.03	0.41
1:G:158:LEU:CD2	1:G:158:LEU:C	2.89	0.41
1:G:435:TYR:O	1:G:439:PHE:HD1	2.03	0.41
1:G:516:PHE:CE2	1:G:554:TYR:CE2	3.07	0.41
1:G:655:PHE:HD1	2:H:11:VAL:CA	2.22	0.41
1:D:142:ARG:NE	1:D:183:THR:HG21	2.34	0.41
1:D:210:GLU:CG	1:G:374:TYR:CA	2.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:349:LEU:HD23	1:D:349:LEU:O	2.20	0.41
1:D:549:TRP:CE3	1:D:549:TRP:HA	2.55	0.41
1:D:598:LEU:HD23	1:G:542:VAL:CG2	2.43	0.41
1:B:640:PHE:CD1	1:B:667:VAL:HG22	2.55	0.41
1:E:384:LEU:HD22	1:E:387:ILE:H	1.72	0.41
1:E:654:ASP:C	1:E:655:PHE:CD2	2.94	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:G:654:ASP:C	1:G:655:PHE:CD2	2.94	0.41
1:D:403:SER:O	1:D:404:SER:OG	2.34	0.41
1:D:435:TYR:O	1:D:439:PHE:HD1	2.03	0.41
1:D:442:CYS:CB	1:D:552:MET:HE2	2.51	0.41
1:D:453:TYR:CE1	1:B:596:VAL:CG1	2.97	0.41
1:D:580:PHE:HZ	1:D:674:LEU:CG	2.33	0.41
1:D:640:PHE:CD1	1:D:667:VAL:HG22	2.55	0.41
1:B:542:VAL:CG2	1:E:598:LEU:HD23	2.39	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
1:B:668:ILE:HD12	1:B:669:LEU:HA	2.03	0.41
1:E:158:LEU:CD2	1:E:158:LEU:C	2.89	0.41
1:E:349:LEU:HD23	1:E:349:LEU:O	2.20	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:448:PHE:CZ	1:E:544:SER:OG	2.59	0.41
1:E:581:MET:SD	1:E:581:MET:O	2.79	0.41
1:E:669:LEU:C	1:E:669:LEU:CD1	2.85	0.41
1:D:180:ALA:O	1:D:184:ASP:N	2.54	0.41
1:D:188:GLN:HE21	1:D:188:GLN:N	2.17	0.41
1:D:638:PHE:C	1:D:641:THR:HG22	2.41	0.41
1:B:242:ARG:CB	1:B:243:PRO:HA	2.50	0.41
1:B:439:PHE:HA	1:B:442:CYS:SG	2.61	0.41
1:B:442:CYS:CB	1:B:552:MET:HE2	2.51	0.41
1:B:549:TRP:CE3	1:B:549:TRP:HA	2.55	0.41
1:E:374:TYR:C	1:E:376:PRO:HD2	2.41	0.41
1:E:565:TYR:O	1:G:677:MET:HE1	2.19	0.41
1:E:588:LEU:HD12	1:E:588:LEU:O	2.21	0.41
1:E:640:PHE:CD1	1:E:667:VAL:HG22	2.55	0.41
1:G:276:ASP:C	1:G:276:ASP:OD1	2.59	0.41
1:G:439:PHE:HA	1:G:442:CYS:SG	2.61	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:581:MET:O	1:G:581:MET:SD	2.79	0.41
1:G:588:LEU:HD12	1:G:588:LEU:O	2.21	0.41
2:H:4:LYS:HA	2:H:16:CYS:SG	2.61	0.41
1:D:664:LEU:O	1:D:668:ILE:CG1	2.69	0.41
1:B:239:THR:CB	1:B:241:GLY:HA2	2.51	0.41
1:B:514:ILE:C	1:B:514:ILE:CD1	2.86	0.41
1:G:166:HIS:O	1:G:166:HIS:CG	2.74	0.41
1:G:180:ALA:O	1:G:184:ASP:N	2.54	0.41
1:G:455:ARG:NH2	1:G:538:VAL:HG21	2.22	0.41
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:D:488:PHE:HB2	1:D:520:SER:CB	2.45	0.40
1:D:654:ASP:C	1:D:655:PHE:CD2	2.94	0.40
1:B:166:HIS:O	1:B:166:HIS:CG	2.74	0.40
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:E:439:PHE:HA	1:E:442:CYS:SG	2.61	0.40
1:E:603:LYS:HB3	1:E:603:LYS:HE2	1.94	0.40
1:E:647:LEU:HD12	1:E:647:LEU:HA	1.81	0.40
1:E:696:ILE:HG13	1:E:696:ILE:H	1.57	0.40
1:G:374:TYR:C	1:G:376:PRO:HD2	2.41	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
2:A:4:LYS:HA	2:A:16:CYS:SG	2.61	0.40
1:D:455:ARG:NH2	1:D:538:VAL:HG21	2.22	0.40
1:D:581:MET:O	1:D:581:MET:SD	2.79	0.40
1:D:710:LYS:HA	1:D:710:LYS:HZ1	1.81	0.40
1:E:166:HIS:O	1:E:166:HIS:CG	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:G:577:LEU:C	1:G:577:LEU:CD1	2.86	0.40
1:D:166:HIS:O	1:D:166:HIS:CG	2.74	0.40
1:D:242:ARG:CB	1:D:243:PRO:HA	2.50	0.40
1:B:441:TYR:CG	1:B:555:TYR:HE2	2.40	0.40
1:B:516:PHE:O	1:B:520:SER:OG	2.39	0.40
1:E:349:LEU:C	1:E:349:LEU:CD2	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:G:662:LEU:HD23	1:G:662:LEU:HA	1.81	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:376:PRO:HD3	1:B:254:LEU:HD11	2.03	0.40
1:D:471:ASP:O	1:D:475:VAL:HG21	2.16	0.40
1:D:657:ALA:HA	1:D:660:ILE:HD12	1.77	0.40
1:B:359:GLU:CD	1:B:360:PRO:HD3	2.35	0.40
1:B:426:TRP:CE3	1:B:701:ARG:NH1	2.80	0.40
1:B:453:TYR:CE1	1:E:596:VAL:CG1	2.97	0.40
1:B:568:MET:HE3	1:B:689:ILE:CD1	2.51	0.40
1:B:599:ILE:O	1:B:599:ILE:HD13	2.22	0.40
1:B:662:LEU:HD23	1:B:662:LEU:HA	1.81	0.40
1:E:125:ASN:HD22	1:E:128:GLU:HG2	1.86	0.40
1:E:368:LYS:C	1:E:369:PHE:CD1	2.95	0.40
1:E:426:TRP:CE3	1:E:701:ARG:NH1	2.80	0.40
1:E:762:UNK:O	1:G:212:ARG:NH2	2.55	0.40
1:G:368:LYS:C	1:G:369:PHE:CD1	2.95	0.40
1:G:599:ILE:HD13	1:G:599:ILE:O	2.22	0.40
1:G:677:MET:O	1:G:681:LEU:CD1	2.70	0.40
1:D:243:PRO:HD2	1:G:755:UNK:C	2.36	0.40
1:D:588:LEU:HD12	1:D:588:LEU:O	2.21	0.40
1:D:631:TYR:CD2	2:C:24:THR:C	2.82	0.40
1:B:448:PHE:O	1:B:448:PHE:CD1	2.70	0.40
1:B:568:MET:N	1:B:689:ILE:HD12	2.36	0.40
1:B:631:TYR:OH	1:E:661:ILE:CD1	2.70	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:693:SER:O	1:B:696:ILE:CD1	2.70	0.40
1:B:693:SER:C	1:B:696:ILE:CD1	2.86	0.40
1:E:136:LEU:HD23	1:E:136:LEU:N	2.21	0.40
1:E:158:LEU:CD2	1:E:162:MET:HE2	2.52	0.40
1:E:284:GLY:HA3	1:E:331:ARG:H	1.87	0.40
1:E:442:CYS:CB	1:E:552:MET:HE2	2.52	0.40
1:G:284:GLY:HA3	1:G:331:ARG:H	1.87	0.40
1:G:571:LYS:HE2	1:G:575:ARG:HH11	1.78	0.40
1:G:664:LEU:O	1:G:668:ILE:CG1	2.69	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	577/628 (92%)	537 (93%)	37 (6%)	3 (0%)	29	66
1	D	577/628 (92%)	537 (93%)	37 (6%)	3 (0%)	29	66
1	E	577/628 (92%)	537 (93%)	37 (6%)	3 (0%)	29	66
1	G	577/628 (92%)	537 (93%)	37 (6%)	3 (0%)	29	66
2	A	29/31 (94%)	22 (76%)	5 (17%)	2 (7%)	1	18
2	C	29/31 (94%)	22 (76%)	5 (17%)	2 (7%)	1	18
2	F	29/31 (94%)	22 (76%)	5 (17%)	2 (7%)	1	18
2	H	29/31 (94%)	22 (76%)	5 (17%)	2 (7%)	1	18
All	All	2424/2636 (92%)	2236 (92%)	168 (7%)	20 (1%)	24	57

All (20) 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
2	A	4	LYS
2	A	16	CYS
2	C	4	LYS
2	C	16	CYS
2	F	4	LYS
2	F	16	CYS
2	H	4	LYS
2	H	16	CYS
1	D	599	ILE

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Mol	Chain	Res	Type
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 2
1	D	418/519 (80%)	299 (72%)	119 (28%)	0 2
1	E	418/519 (80%)	299 (72%)	119 (28%)	0 2
1	G	418/519 (80%)	299 (72%)	119 (28%)	0 2
2	A	6/26 (23%)	4 (67%)	2 (33%)	0 1
2	C	6/26 (23%)	4 (67%)	2 (33%)	0 1
2	F	6/26 (23%)	4 (67%)	2 (33%)	0 1
2	H	6/26 (23%)	4 (67%)	2 (33%)	0 1
All	All	1696/2180 (78%)	1212 (72%)	484 (28%)	2 2

All (484) 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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
1	G	710	LYS
1	G	713	LEU
2	A	9	CYS
2	A	28	CYS
2	C	9	CYS
2	C	28	CYS
2	F	9	CYS
2	F	28	CYS
2	H	9	CYS
2	H	28	CYS

Sometimes 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
1	G	188	GLN
1	G	269	GLN
1	G	289	HIS

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

5.3.3 RNA (i)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

There are no ligands in this entry.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

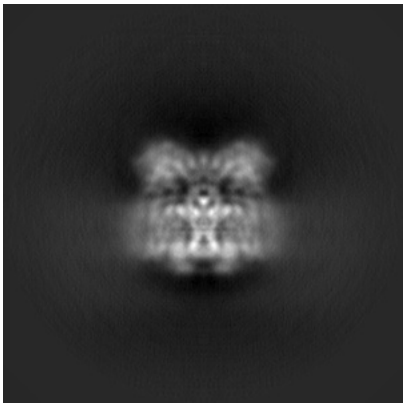
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-5776. These allow visual inspection of the internal detail of the map and identification of artifacts.

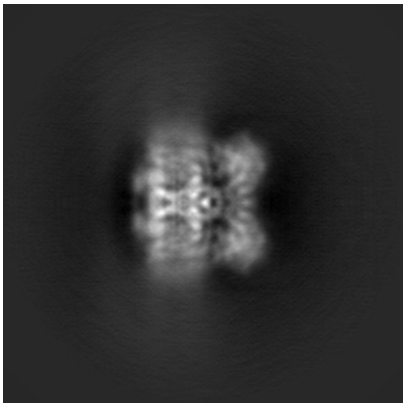
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

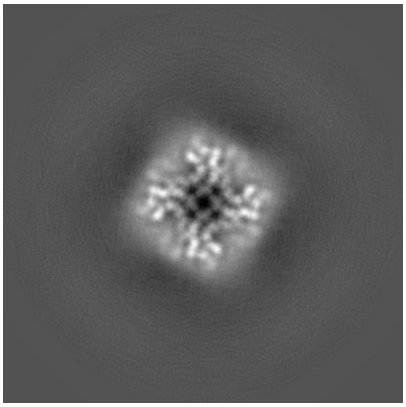
6.1.1 Primary map



X



Y

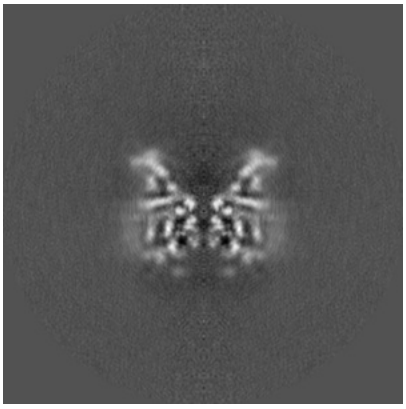


Z

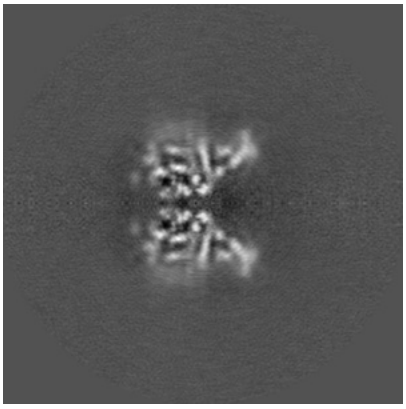
The images above show the map projected in three orthogonal directions.

6.2 Central slices

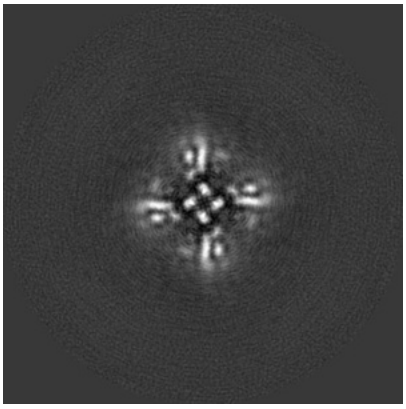
6.2.1 Primary map



X Index: 128



Y Index: 128

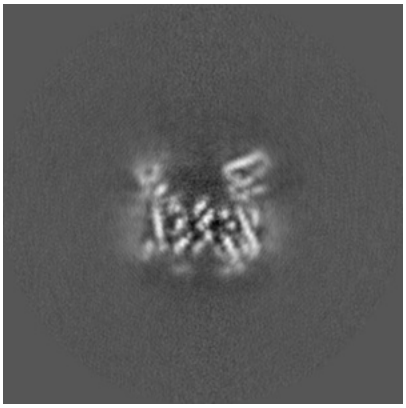


Z Index: 128

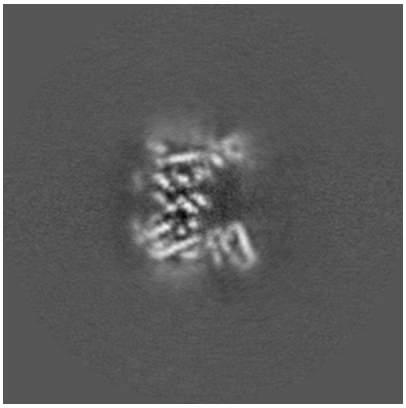
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

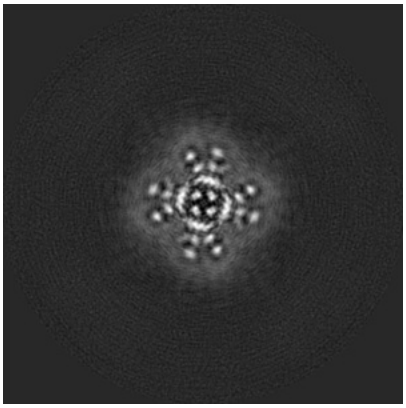
6.3.1 Primary map



X Index: 135



Y Index: 135

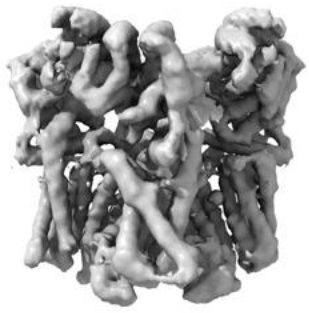


Z Index: 122

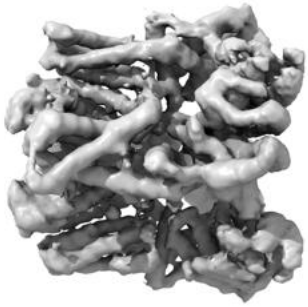
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal surface views (i)

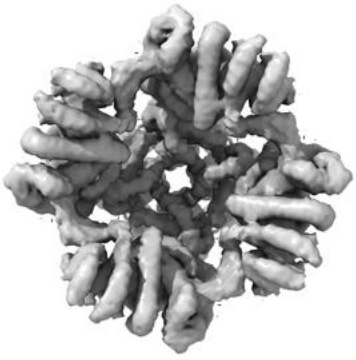
6.4.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 7.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

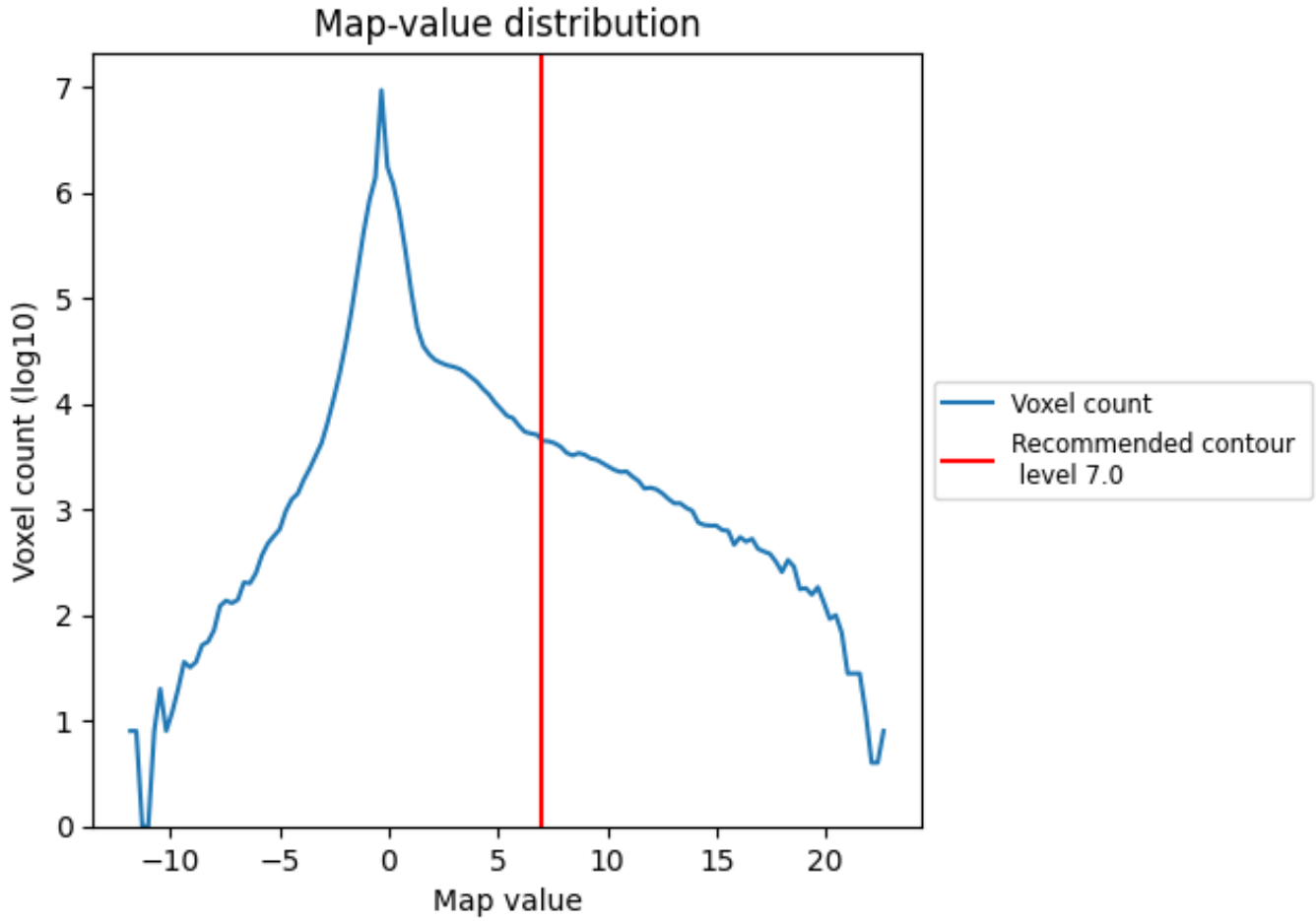
6.5 Mask visualisation (i)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis

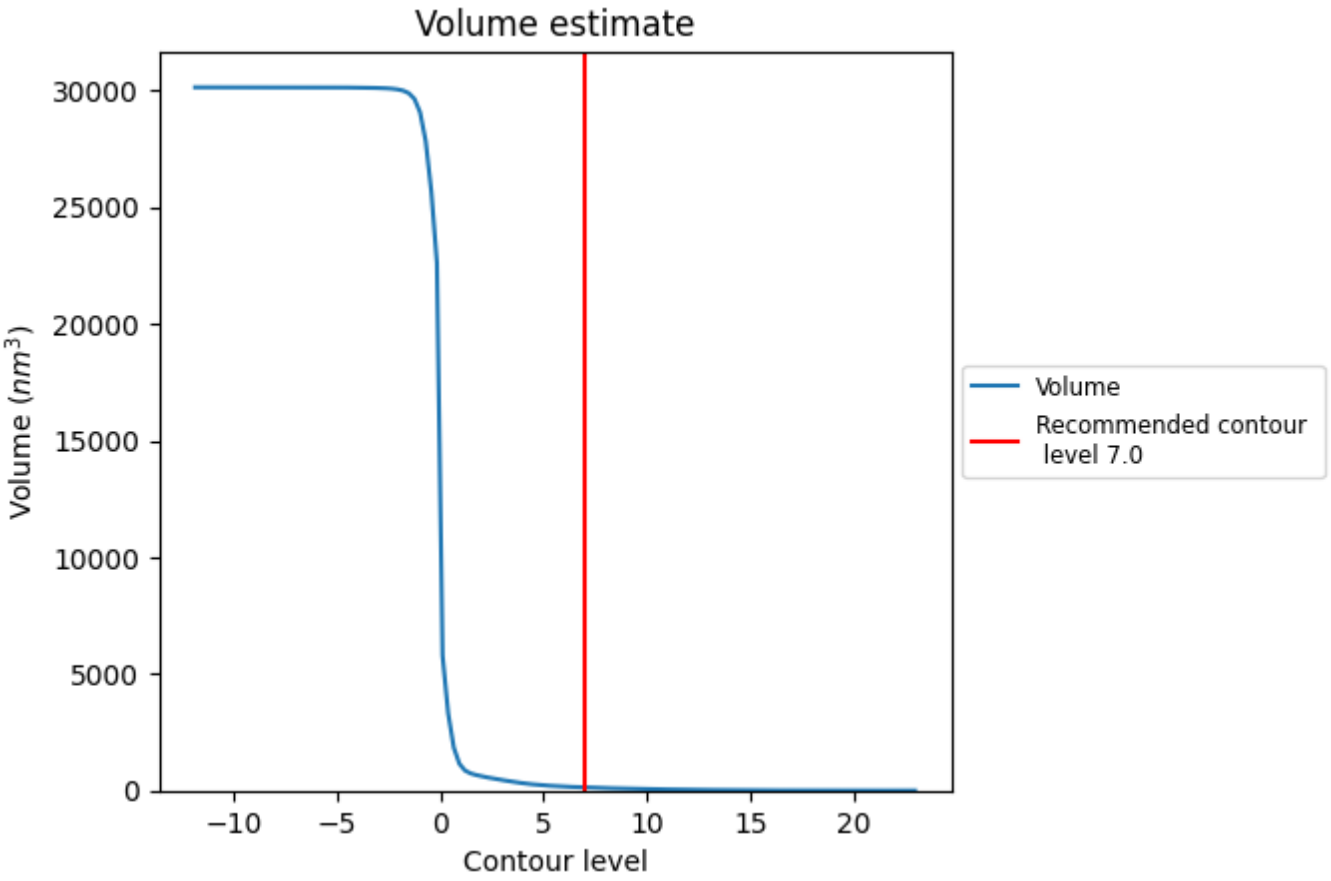
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

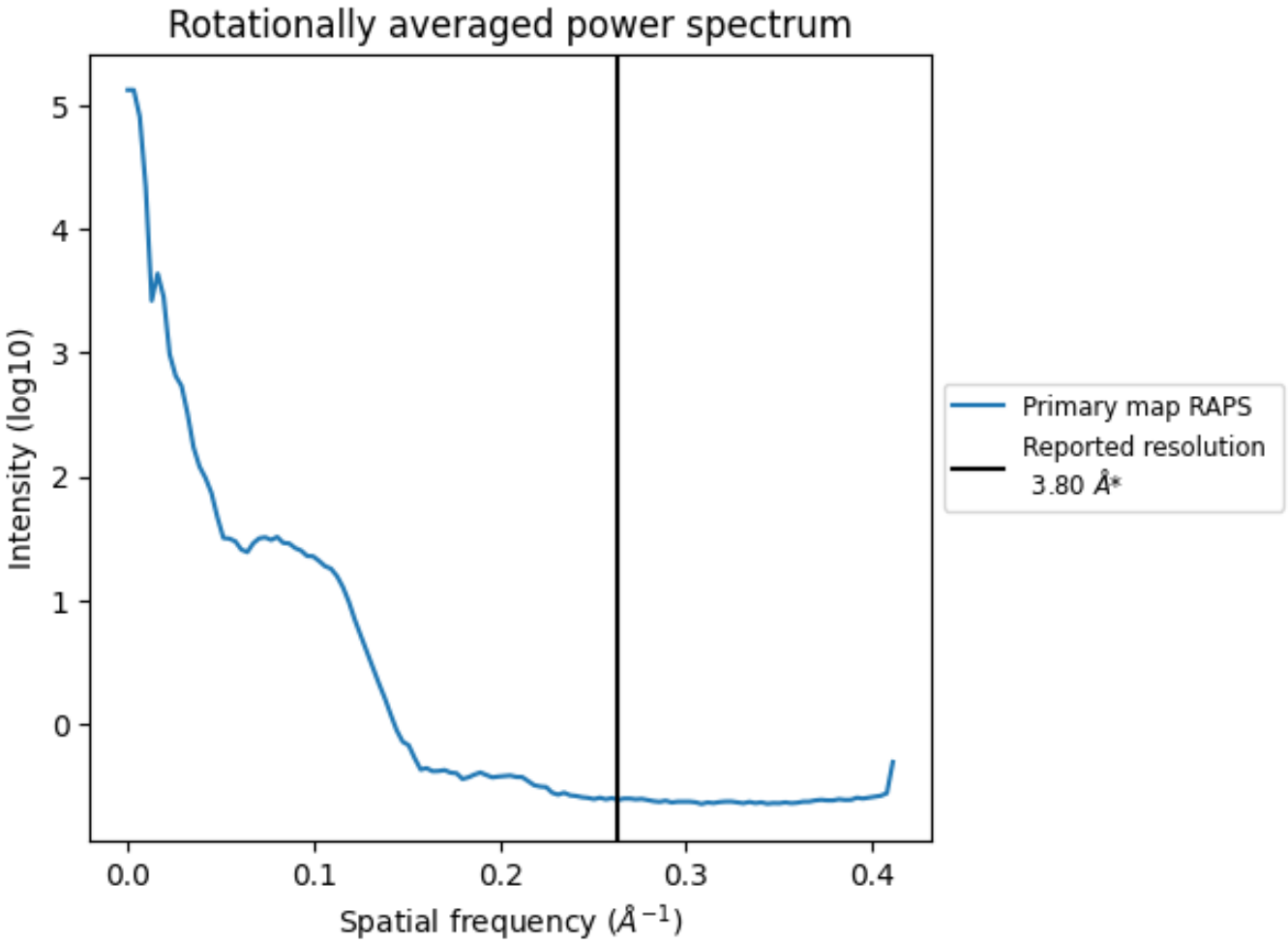
7.2 Volume estimate



The volume at the recommended contour level is 135 nm^3; this corresponds to an approximate mass of 122 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum (i)



*Reported resolution corresponds to spatial frequency of 0.263 $Å^{-1}$

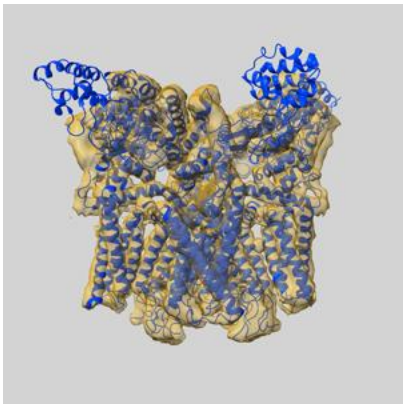
8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

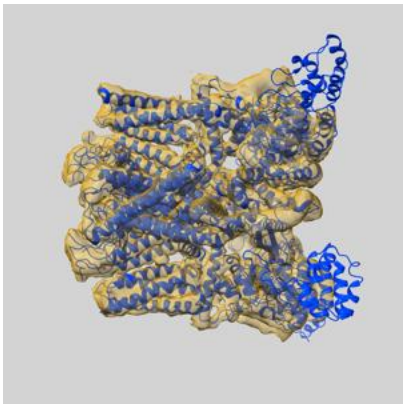
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-5776 and PDB model 3J5Q. Per-residue inclusion information can be found in section 3 on page 6.

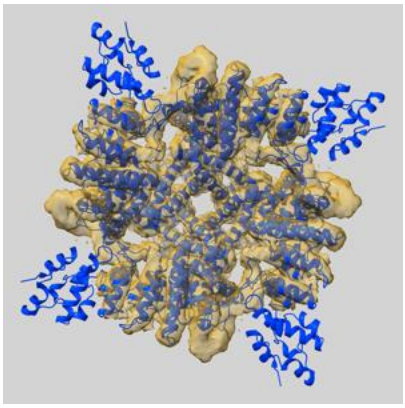
9.1 Map-model overlay



X



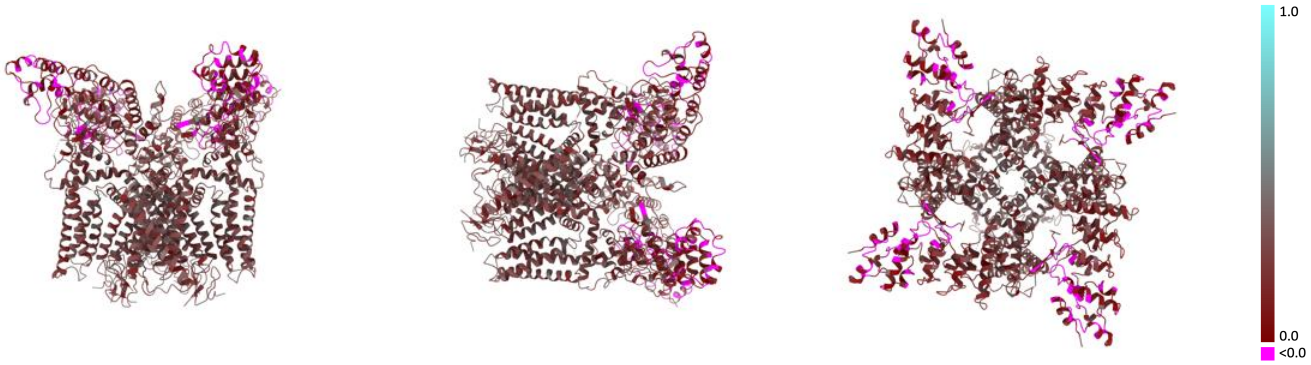
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 7.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

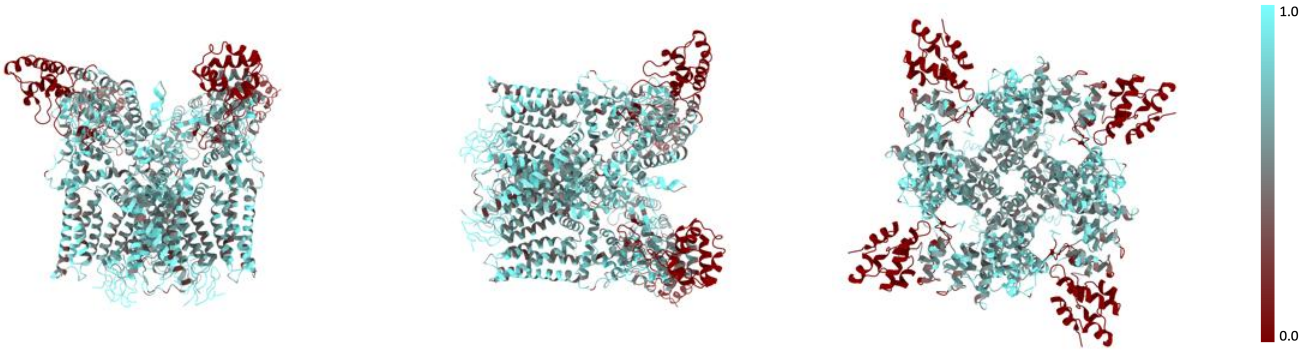
9.2 Q-score mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

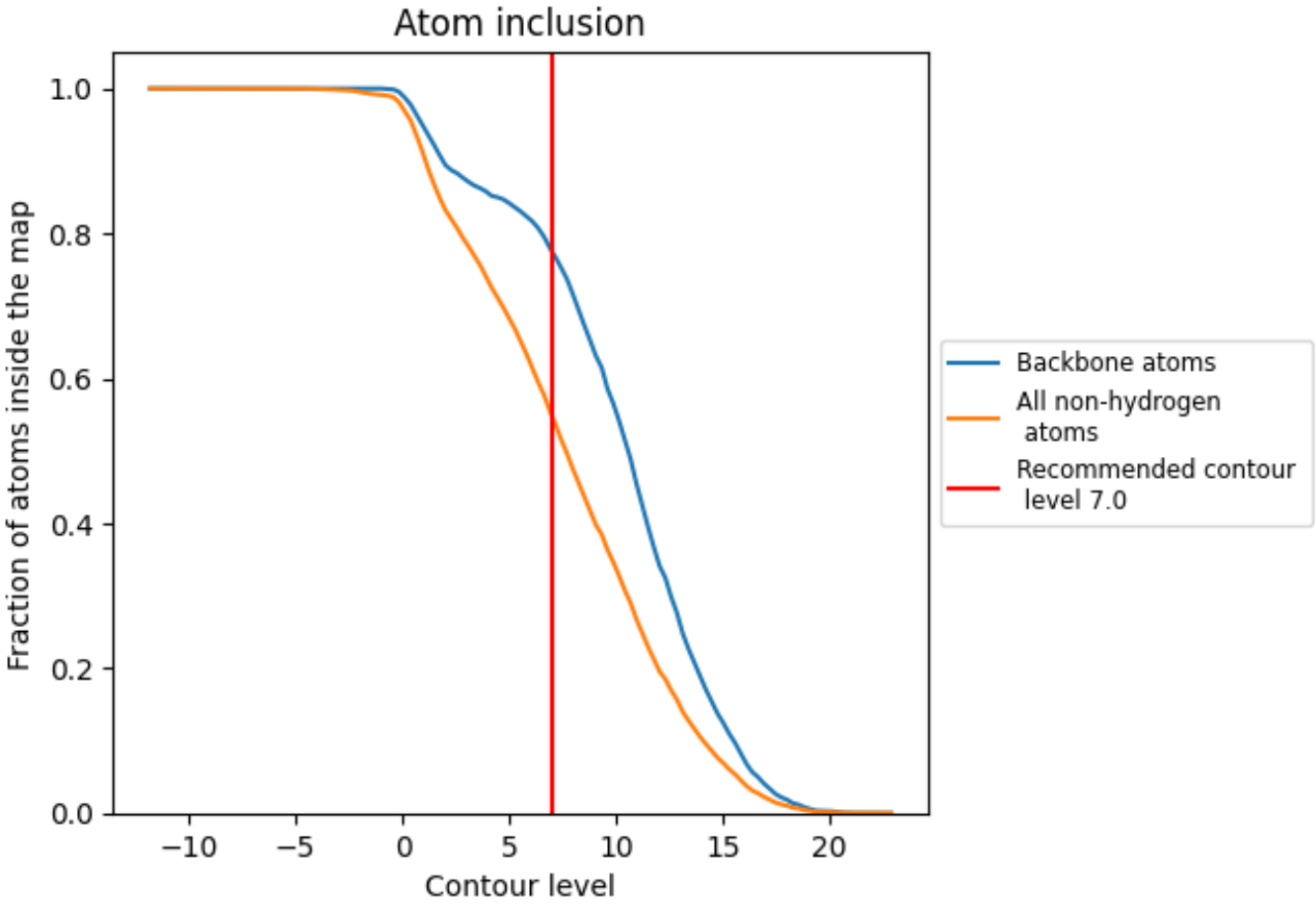
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (7.0).

9.4 Atom inclusion (i)



At the recommended contour level, 78% of all backbone atoms, 55% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (7.0) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.5490	0.2170
A	0.9490	0.3050
B	0.5389	0.2130
C	0.9490	0.3120
D	0.5391	0.2120
E	0.5389	0.2150
F	0.9427	0.3100
G	0.5391	0.2130
H	0.9427	0.3070