



wwPDB EM Map/Model Validation Report ⓘ

Apr 10, 2016 – 01:49 PM BST

PDB ID : 3GZU
EMDB ID: : EMD-1571
Title : VP7 recoated rotavirus DLP
Authors : Chen, J.Z.; Settembre, E.C.; Harrison, S.C.; Grigorieff, N.
Deposited on : 2009-04-07
Resolution : 3.80 Å(reported)

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

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

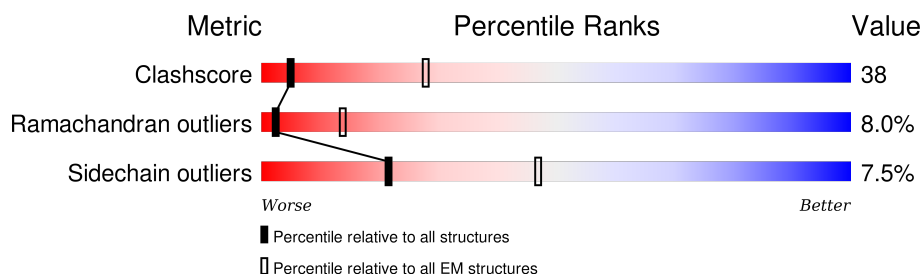
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.80 Å.

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



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

The table below summarises the geometric issues observed across the polymeric chains. The red, orange, yellow and green segments on the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$.

Mol	Chain	Length	Quality of chain
1	A	800	19% 56% 20% . .
1	B	800	20% 57% 22% .
2	C	397	61% 32% 6% .
2	D	397	59% 34% 7% .
2	E	397	60% 33% 6% .
2	F	397	61% 32% 6% .
2	G	397	60% 33% 7% .
2	H	397	59% 34% 7% .
2	I	397	60% 33% 6% .

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Mol	Chain	Length	Quality of chain
2	J	397	 60%32%7% •
2	K	397	 61%32%7% •
2	L	397	 60%33%6% •
2	M	397	 59%34%7% •
2	N	397	 60%33%7% •
2	O	397	 61%31%7% •

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 53996 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Inner capsid protein VP2.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	781	Total	C	N	O	S	1	0
			6383	4054	1099	1194	36		
1	B	800	Total	C	N	O	S	0	0
			6541	4157	1124	1224	36		

- Molecule 2 is a protein called Intermediate capsid protein VP6.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	C	397	Total	C	N	O	S	0	0
			3159	2002	546	596	15		
2	D	397	Total	C	N	O	S	0	0
			3159	2002	546	596	15		
2	E	397	Total	C	N	O	S	0	0
			3159	2002	546	596	15		
2	F	397	Total	C	N	O	S	0	0
			3159	2002	546	596	15		
2	G	397	Total	C	N	O	S	0	0
			3159	2002	546	596	15		
2	H	397	Total	C	N	O	S	0	0
			3159	2002	546	596	15		
2	I	397	Total	C	N	O	S	0	0
			3159	2002	546	596	15		
2	J	397	Total	C	N	O	S	0	0
			3159	2002	546	596	15		
2	K	397	Total	C	N	O	S	0	0
			3159	2002	546	596	15		
2	L	397	Total	C	N	O	S	0	0
			3159	2002	546	596	15		
2	M	397	Total	C	N	O	S	0	0
			3159	2002	546	596	15		
2	N	397	Total	C	N	O	S	0	0
			3159	2002	546	596	15		
2	O	397	Total	C	N	O	S	0	0
			3159	2002	546	596	15		

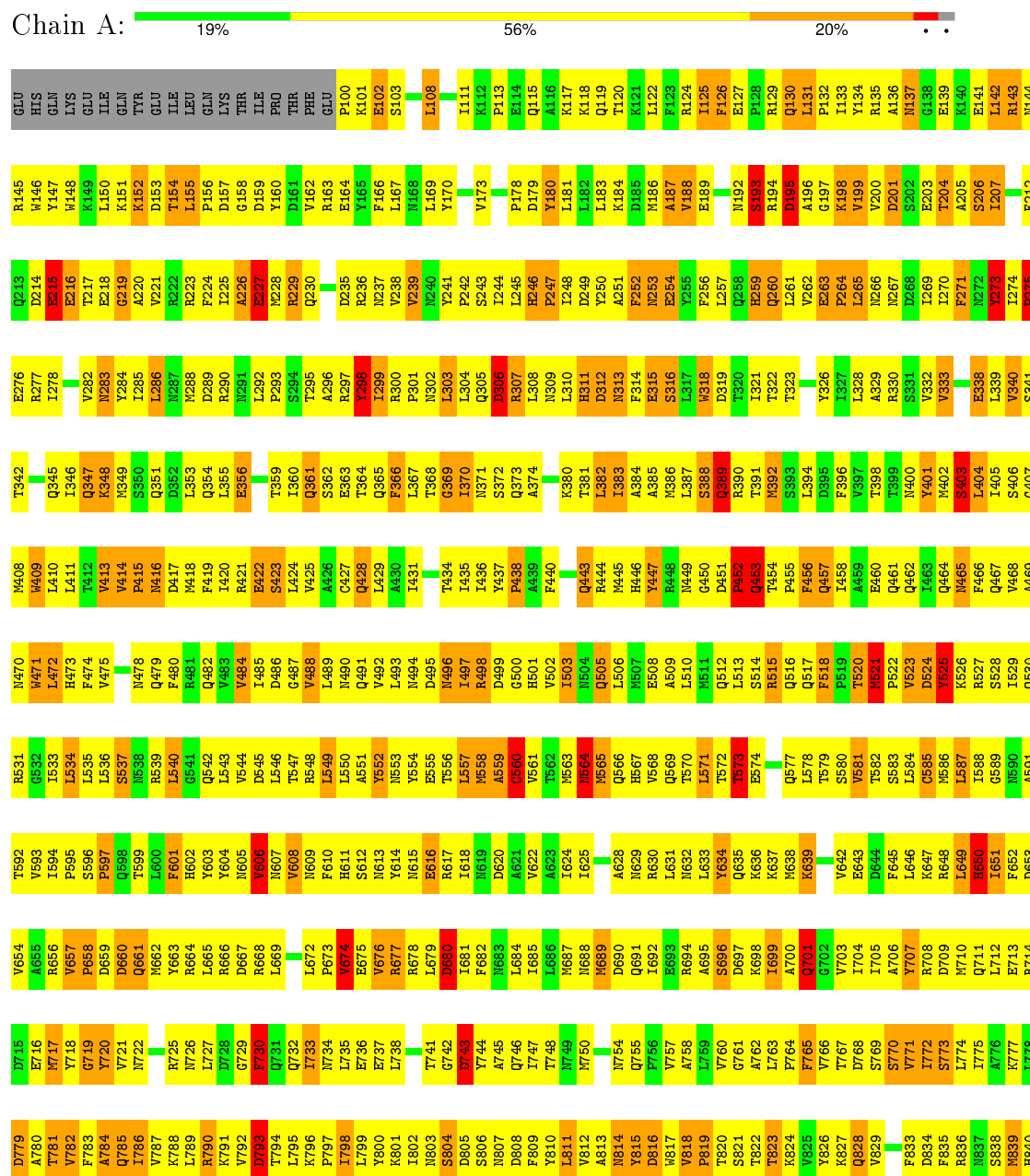
- Molecule 3 is ZINC ION (three-letter code: ZN) (formula: Zn).

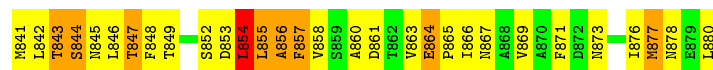
Mol	Chain	Residues	Atoms		AltConf
3	G	1	Total 1	Zn 1	0
3	J	1	Total 1	Zn 1	0
3	C	1	Total 1	Zn 1	0
3	N	1	Total 1	Zn 1	0
3	O	1	Total 1	Zn 1	0

3 Residue-property plots

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

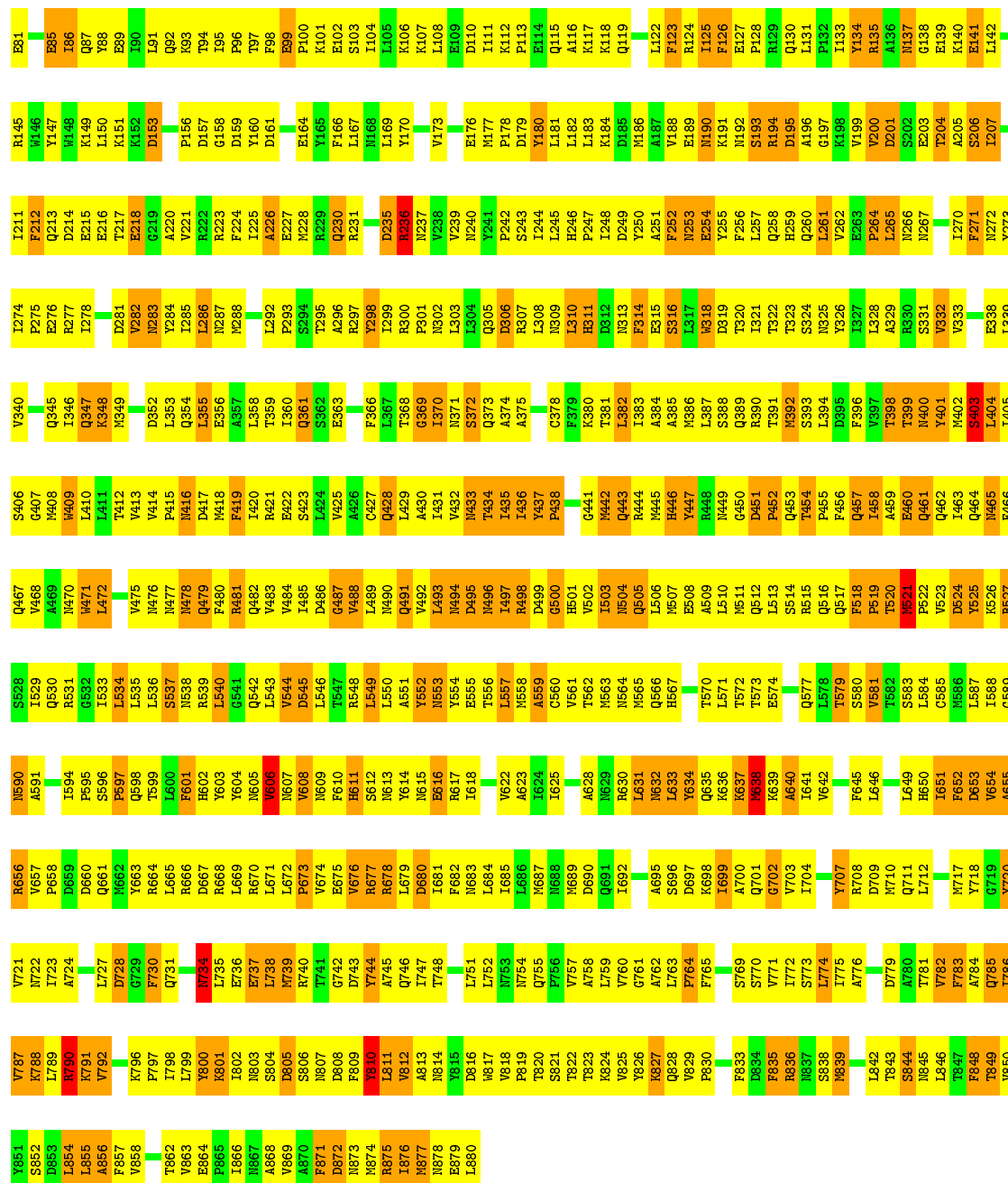
• Molecule 1: Inner capsid protein VP2





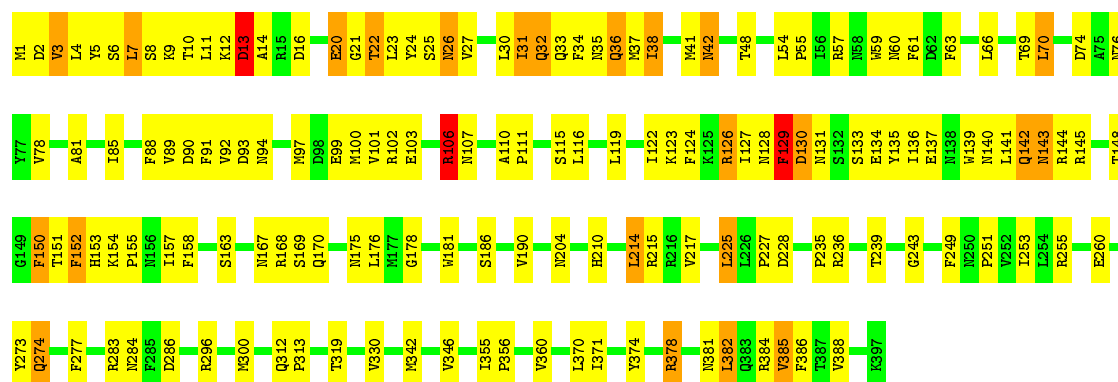
• Molecule 1: Inner capsid protein VP2

Chain B: 20% 57% 22%



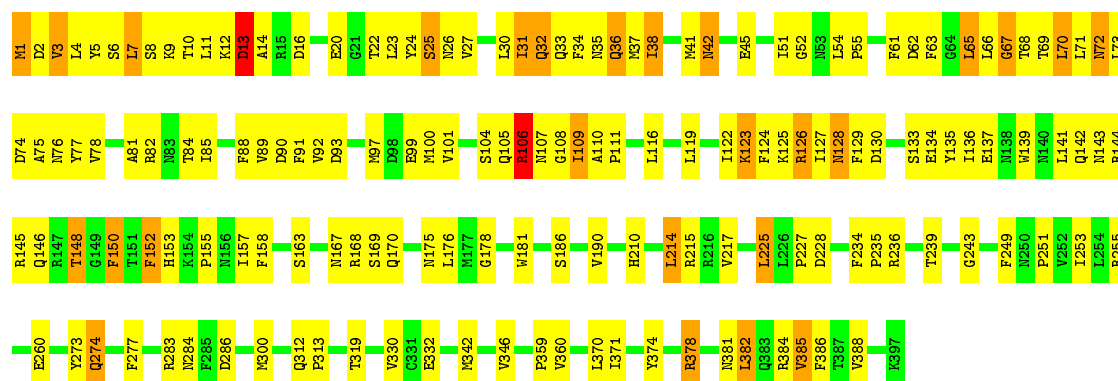
• Molecule 2: Intermediate capsid protein VP6

Chain C: 61% 32% 6%



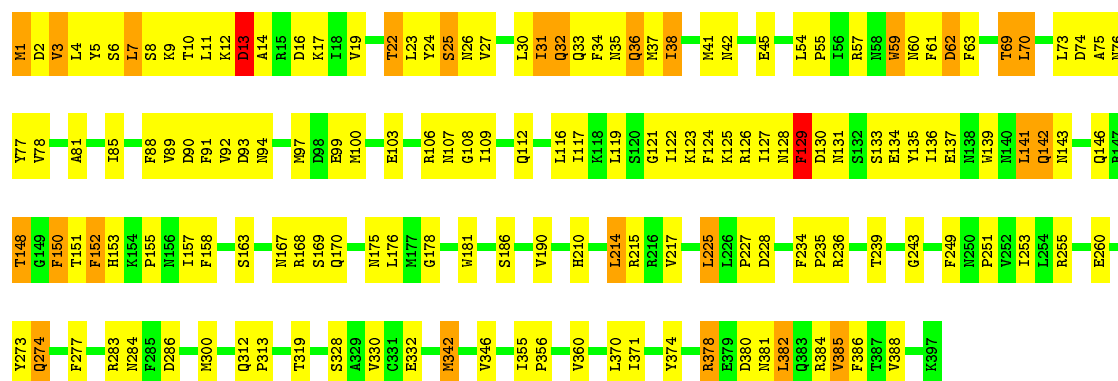
• Molecule 2: Intermediate capsid protein VP6

Chain D: 59% 34% 7% .



• Molecule 2: Intermediate capsid protein VP6

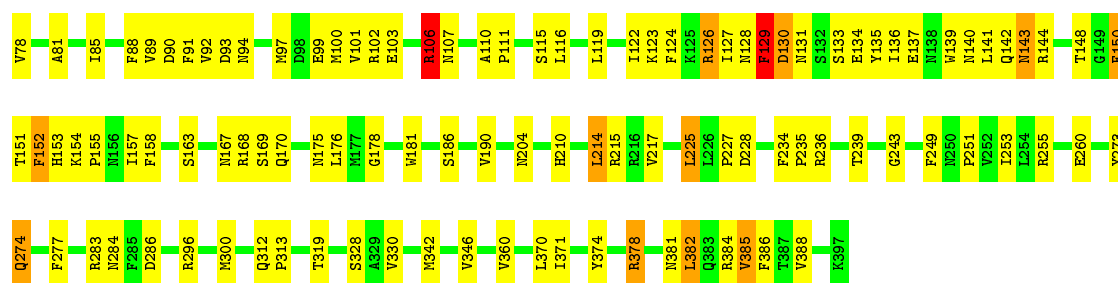
Chain E: 60% 33% 6% .



• Molecule 2: Intermediate capsid protein VP6

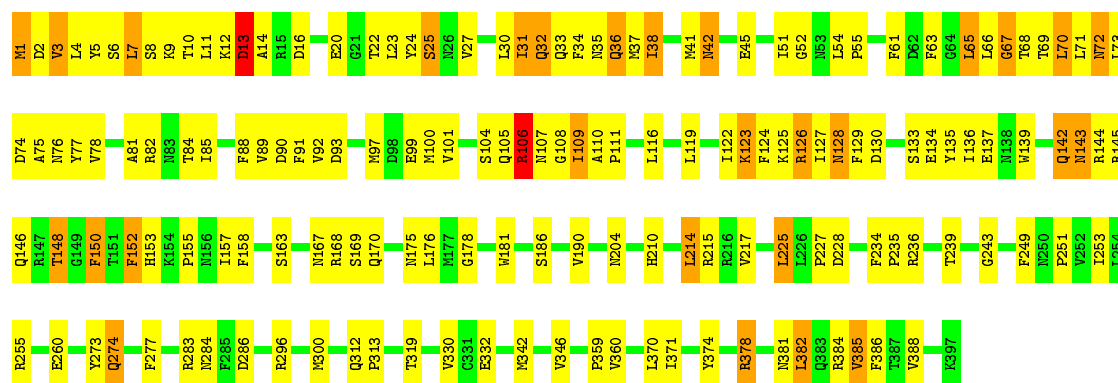
Chain F: 61% 32% 6% .





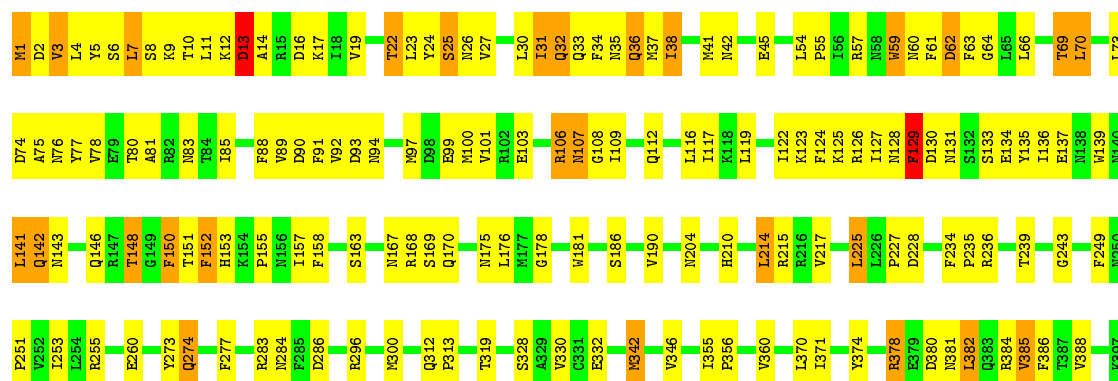
- Molecule 2: Intermediate capsid protein VP6

Chain G: 60% 33% 7% .



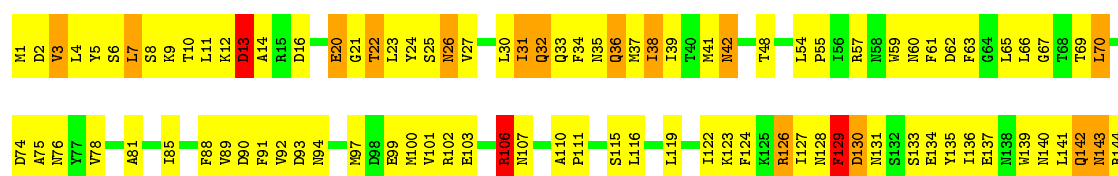
- Molecule 2: Intermediate capsid protein VP6

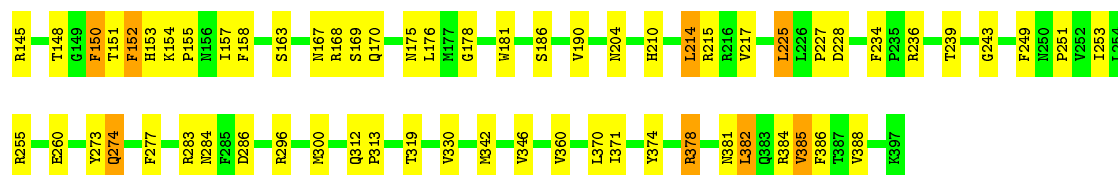
Chain H: 59% 34% 7% .



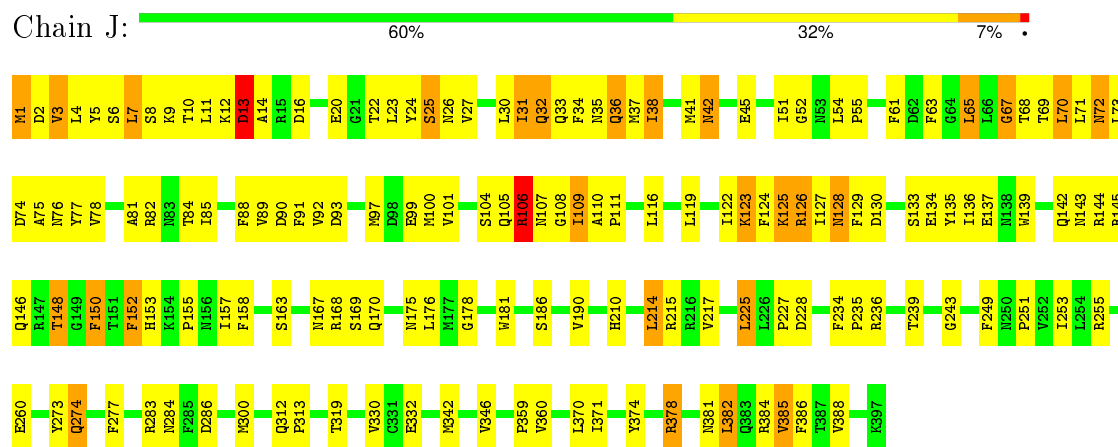
- Molecule 2: Intermediate capsid protein VP6

Chain I: 60% 33% 6% .

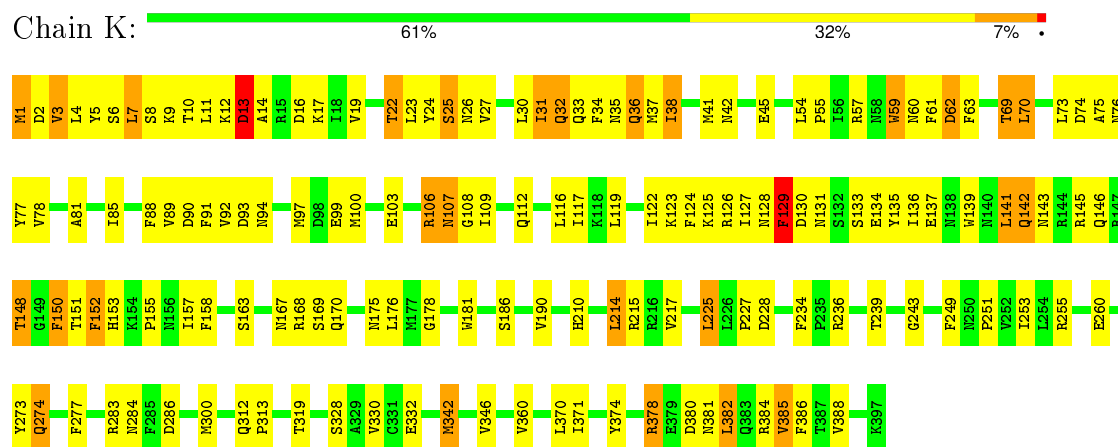




• Molecule 2: Intermediate capsid protein VP6



• Molecule 2: Intermediate capsid protein VP6

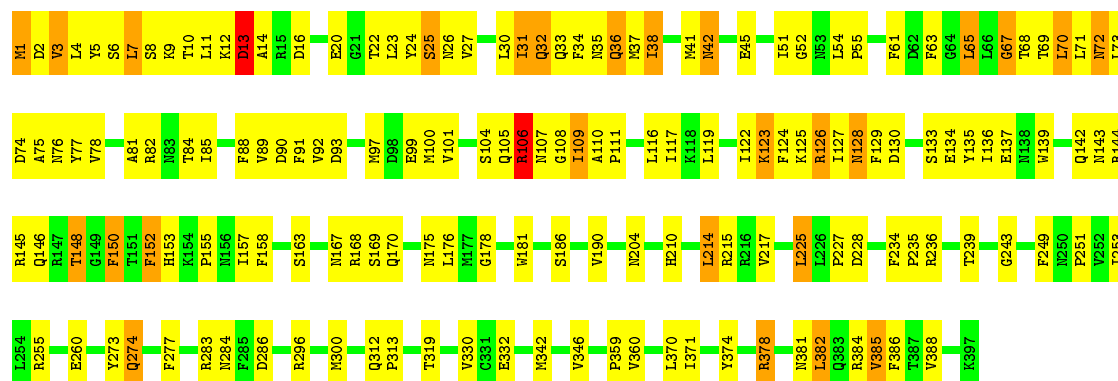


• Molecule 2: Intermediate capsid protein VP6



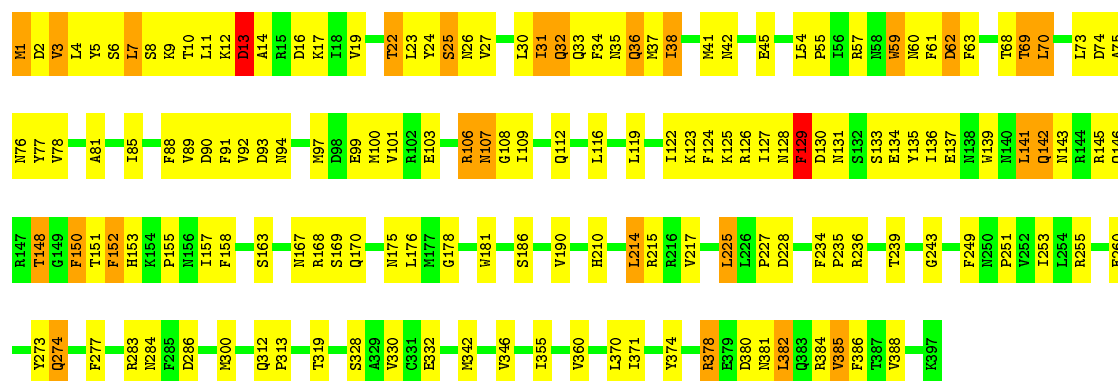
- Molecule 2: Intermediate capsid protein VP6

Chain M: 59% 34% 7%



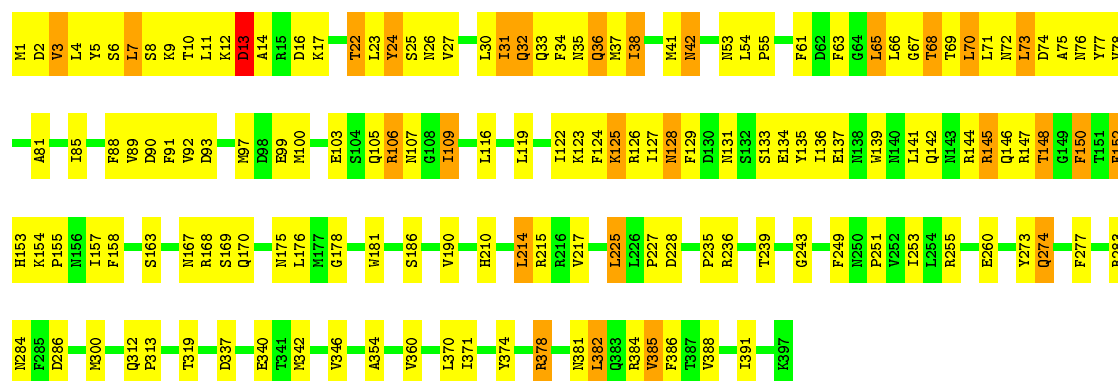
- Molecule 2: Intermediate capsid protein VP6

Chain N: 60% 33% 7%



- Molecule 2: Intermediate capsid protein VP6

Chain O:  61% 31% 7%



4 Experimental information

Property	Value	Source
Reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, I	Depositor
Number of images	Not provided	Depositor
Resolution determination method	Not provided	Depositor
CTF correction method	individual particle CTF	Depositor
Microscope	TF30	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	2500	Depositor
Minimum defocus (nm)	1200	Depositor
Maximum defocus (nm)	3500	Depositor
Magnification	59000	Depositor
Image detector	film	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# $ Z > 2$	RMSZ	# $ Z > 2$
1	A	0.52	0/6500	0.85	10/8819 (0.1%)
1	B	0.59	2/6662 (0.0%)	0.84	10/9038 (0.1%)
2	C	0.50	0/3229	0.76	5/4394 (0.1%)
2	D	0.50	0/3229	0.76	5/4394 (0.1%)
2	E	0.50	0/3229	0.76	5/4394 (0.1%)
2	F	0.50	0/3229	0.76	5/4394 (0.1%)
2	G	0.50	0/3229	0.76	5/4394 (0.1%)
2	H	0.50	0/3229	0.76	5/4394 (0.1%)
2	I	0.50	0/3229	0.76	5/4394 (0.1%)
2	J	0.50	0/3229	0.76	5/4394 (0.1%)
2	K	0.50	0/3229	0.76	5/4394 (0.1%)
2	L	0.50	0/3229	0.76	5/4394 (0.1%)
2	M	0.50	0/3229	0.76	5/4394 (0.1%)
2	N	0.50	0/3229	0.76	5/4394 (0.1%)
2	O	0.51	0/3229	0.77	5/4394 (0.1%)
All	All	0.51	2/55139 (0.0%)	0.78	85/74979 (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	A	0	3
1	B	0	1
All	All	0	4

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	848	PHE	C-N	-17.55	0.93	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	116	ALA	C-N	-10.49	1.09	1.34

All (85) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	273	TYR	CB-CG-CD1	-11.13	114.32	121.00
1	A	273	TYR	CB-CG-CD2	10.46	127.28	121.00
1	A	674	VAL	O-C-N	-9.91	106.84	122.70
1	B	273	TYR	CB-CG-CD1	9.20	126.52	121.00
1	B	273	TYR	CB-CG-CD2	-9.16	115.50	121.00
1	A	273	TYR	CA-CB-CG	8.87	130.24	113.40
1	B	116	ALA	O-C-N	8.53	136.35	122.70
1	B	273	TYR	CA-CB-CG	7.92	128.45	113.40
1	B	116	ALA	CA-C-N	-7.66	100.36	117.20
1	A	639	LYS	N-CA-C	-7.30	91.29	111.00
1	B	116	ALA	C-N-CA	-7.29	103.47	121.70
1	A	453	GLN	N-CA-C	-6.99	92.14	111.00
2	F	384	ARG	NE-CZ-NH2	6.79	123.69	120.30
2	D	236	ARG	NE-CZ-NH2	6.74	123.67	120.30
2	G	236	ARG	NE-CZ-NH2	6.73	123.67	120.30
2	C	384	ARG	NE-CZ-NH2	6.70	123.65	120.30
2	O	384	ARG	NE-CZ-NH2	6.67	123.64	120.30
2	J	384	ARG	NE-CZ-NH2	6.63	123.62	120.30
2	I	384	ARG	NE-CZ-NH2	6.62	123.61	120.30
2	M	236	ARG	NE-CZ-NH2	6.51	123.56	120.30
2	J	236	ARG	NE-CZ-NH2	6.50	123.55	120.30
2	C	283	ARG	NE-CZ-NH2	6.50	123.55	120.30
2	M	384	ARG	NE-CZ-NH2	6.49	123.55	120.30
2	H	384	ARG	NE-CZ-NH2	6.49	123.55	120.30
2	L	384	ARG	NE-CZ-NH2	6.48	123.54	120.30
2	N	384	ARG	NE-CZ-NH2	6.48	123.54	120.30
1	A	472	LEU	CA-CB-CG	-6.47	100.41	115.30
1	B	273	TYR	CB-CA-C	-6.45	97.50	110.40
2	I	283	ARG	NE-CZ-NH2	6.44	123.52	120.30
2	L	283	ARG	NE-CZ-NH2	6.44	123.52	120.30
2	G	283	ARG	NE-CZ-NH2	6.43	123.52	120.30
2	G	384	ARG	NE-CZ-NH2	6.42	123.51	120.30
2	D	384	ARG	NE-CZ-NH2	6.41	123.50	120.30
2	K	384	ARG	NE-CZ-NH2	6.40	123.50	120.30
2	K	236	ARG	NE-CZ-NH2	6.38	123.49	120.30
2	E	384	ARG	NE-CZ-NH2	6.34	123.47	120.30
2	M	283	ARG	NE-CZ-NH2	6.34	123.47	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	F	283	ARG	NE-CZ-NH2	6.33	123.47	120.30
2	O	283	ARG	NE-CZ-NH2	6.32	123.46	120.30
2	E	236	ARG	NE-CZ-NH2	6.31	123.46	120.30
2	O	236	ARG	NE-CZ-NH2	6.30	123.45	120.30
1	A	298	TYR	N-CA-C	6.27	127.93	111.00
2	J	283	ARG	NE-CZ-NH2	6.24	123.42	120.30
2	D	283	ARG	NE-CZ-NH2	6.18	123.39	120.30
2	N	236	ARG	NE-CZ-NH2	6.18	123.39	120.30
2	E	283	ARG	NE-CZ-NH2	6.16	123.38	120.30
2	H	236	ARG	NE-CZ-NH2	6.13	123.36	120.30
2	I	236	ARG	NE-CZ-NH2	6.12	123.36	120.30
2	K	283	ARG	NE-CZ-NH2	6.12	123.36	120.30
2	C	236	ARG	NE-CZ-NH2	6.09	123.34	120.30
2	F	236	ARG	NE-CZ-NH2	6.04	123.32	120.30
2	N	283	ARG	NE-CZ-NH2	6.04	123.32	120.30
2	L	236	ARG	NE-CZ-NH2	6.02	123.31	120.30
2	H	283	ARG	NE-CZ-NH2	5.87	123.23	120.30
2	L	300	MET	CG-SD-CE	5.84	109.55	100.20
2	C	300	MET	CG-SD-CE	5.83	109.53	100.20
2	I	300	MET	CG-SD-CE	5.80	109.48	100.20
2	F	300	MET	CG-SD-CE	5.79	109.47	100.20
2	O	300	MET	CG-SD-CE	5.79	109.46	100.20
2	J	300	MET	CG-SD-CE	5.76	109.42	100.20
2	D	300	MET	CG-SD-CE	5.75	109.41	100.20
2	G	300	MET	CG-SD-CE	5.74	109.38	100.20
2	M	300	MET	CG-SD-CE	5.71	109.33	100.20
1	A	719	GLY	N-CA-C	-5.70	98.86	113.10
2	K	300	MET	CG-SD-CE	5.66	109.25	100.20
2	N	300	MET	CG-SD-CE	5.66	109.25	100.20
2	H	300	MET	CG-SD-CE	5.65	109.24	100.20
2	E	300	MET	CG-SD-CE	5.63	109.21	100.20
1	B	497	ILE	N-CA-C	-5.62	95.83	111.00
1	B	472	LEU	CA-CB-CG	-5.61	102.40	115.30
1	B	631	LEU	CA-CB-CG	-5.46	102.75	115.30
2	J	342	MET	CG-SD-CE	5.30	108.68	100.20
2	M	342	MET	CG-SD-CE	5.29	108.66	100.20
2	G	342	MET	CG-SD-CE	5.28	108.65	100.20
2	D	342	MET	CG-SD-CE	5.28	108.64	100.20
2	H	342	MET	CG-SD-CE	5.25	108.60	100.20
2	E	342	MET	CG-SD-CE	5.24	108.59	100.20
2	K	342	MET	CG-SD-CE	5.23	108.57	100.20
2	N	342	MET	CG-SD-CE	5.21	108.54	100.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	367	LEU	N-CA-C	-5.19	96.98	111.00
2	O	342	MET	CG-SD-CE	5.18	108.49	100.20
2	I	342	MET	CG-SD-CE	5.18	108.48	100.20
2	L	342	MET	CG-SD-CE	5.17	108.48	100.20
2	C	342	MET	CG-SD-CE	5.17	108.48	100.20
2	F	342	MET	CG-SD-CE	5.16	108.45	100.20

There are no chirality outliers.

All (4) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	263[A]	GLU	Mainchain
1	A	273	TYR	Sidechain
1	A	674	VAL	Mainchain
1	B	810	TYR	Sidechain

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	6383	0	6398	1021	0
1	B	6541	0	6551	1252	0
2	C	3159	0	3102	144	0
2	D	3159	0	3102	153	0
2	E	3159	0	3102	142	0
2	F	3159	0	3100	141	0
2	G	3159	0	3102	184	0
2	H	3159	0	3101	198	0
2	I	3159	0	3100	215	0
2	J	3159	0	3102	189	0
2	K	3159	0	3101	158	0
2	L	3159	0	3099	178	0
2	M	3159	0	3102	162	0
2	N	3159	0	3101	177	0
2	O	3159	0	3102	135	0
3	C	1	0	0	0	0
3	G	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	J	1	0	0	0	0
3	N	1	0	0	0	0
3	O	1	0	0	0	0
All	All	53996	0	53265	4052	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 38.

All (4052) 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:B:498:ARG:HH12	2:J:25:SER:CB	1.22	1.46
1:B:498:ARG:NH1	2:J:25:SER:HB3	1.24	1.46
2:K:145:ARG:CD	2:L:143:ASN:HA	1.45	1.44
1:B:630:ARG:HD3	2:L:71:LEU:CB	1.07	1.44
1:A:473:HIS:CD2	2:G:70:LEU:CD1	2.01	1.44
1:B:481:ARG:HG2	2:I:65:LEU:CD1	1.48	1.43
1:A:473:HIS:CD2	2:G:70:LEU:HD12	1.52	1.42
1:A:461:GLN:HB2	2:F:32:GLN:NE2	1.30	1.41
1:B:462:GLN:HA	2:H:64:GLY:CA	1.51	1.40
1:A:469:ALA:O	2:G:70:LEU:CD2	1.69	1.40
1:B:630:ARG:CD	2:L:71:LEU:CB	1.79	1.39
1:B:498:ARG:NH1	2:J:25:SER:CB	1.81	1.37
1:A:473:HIS:HD2	2:G:70:LEU:CD1	1.33	1.36
1:B:494:ASN:CG	2:I:69:THR:HG22	1.46	1.34
1:A:461:GLN:CB	2:F:32:GLN:NE2	1.87	1.34
1:B:494:ASN:HB2	2:I:69:THR:CG2	1.59	1.32
1:B:494:ASN:CB	2:I:69:THR:HG22	1.60	1.29
1:B:255:TYR:N	2:N:69:THR:HG23	1.46	1.27
1:A:469:ALA:CB	2:G:71:LEU:HD22	1.65	1.26
1:B:255:TYR:N	2:N:69:THR:CG2	1.99	1.26
2:C:142:GLN:O	2:N:145:ARG:HD2	1.29	1.26
2:C:142:GLN:O	2:N:145:ARG:CD	1.83	1.26
1:B:466:PHE:CE1	2:H:80:THR:HG22	1.71	1.25
1:B:462:GLN:CA	2:H:64:GLY:HA2	1.67	1.25
1:B:481:ARG:CG	2:I:65:LEU:HD13	1.67	1.22
1:B:470:ASN:HB3	2:J:71:LEU:CD2	1.70	1.22
1:B:484:VAL:HG21	2:I:69:THR:CG2	1.69	1.20
1:B:462:GLN:CA	2:H:64:GLY:CA	2.19	1.20
1:B:498:ARG:CZ	2:J:25:SER:OG	1.90	1.19
1:B:477:ASN:ND2	2:I:39:ILE:HG21	1.56	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:498:ARG:HG2	2:I:32:GLN:NE2	1.57	1.19
2:K:145:ARG:HD2	2:L:142:GLN:O	1.43	1.18
1:A:473:HIS:N	2:G:70:LEU:HD22	1.57	1.18
2:K:145:ARG:HD3	2:L:143:ASN:CA	1.75	1.17
1:B:790:ARG:HA	1:B:790:ARG:HE	1.06	1.15
1:B:466:PHE:CE1	2:H:80:THR:CG2	2.30	1.14
1:A:563:MET:HE2	1:A:563:MET:HA	1.28	1.14
1:A:470:ASN:C	2:G:70:LEU:HD23	1.67	1.13
1:B:573:THR:HG22	1:B:574:GLU:H	0.98	1.13
2:I:76:ASN:H	2:M:76:ASN:HB2	1.04	1.12
1:B:200:VAL:HG21	1:B:243:SER:HB3	1.19	1.12
1:B:498:ARG:HE	2:J:23:LEU:HD11	1.09	1.11
1:B:630:ARG:CD	2:L:71:LEU:HB3	1.54	1.11
1:B:518:PHE:CD2	2:H:69:THR:CG2	2.21	1.11
2:K:145:ARG:CD	2:L:143:ASN:CA	2.27	1.11
1:A:470:ASN:O	2:G:70:LEU:HD23	1.48	1.11
1:A:461:GLN:CB	2:F:32:GLN:HE22	1.51	1.11
1:B:498:ARG:HB3	1:B:505:GLN:NE2	1.66	1.10
1:B:470:ASN:CB	2:J:71:LEU:HD23	1.80	1.10
1:B:494:ASN:CB	2:I:69:THR:CG2	2.23	1.10
1:A:451:ASP:HB3	1:A:452:PRO:HD2	1.32	1.10
1:A:333:VAL:HG11	1:A:380:LYS:HA	1.25	1.09
1:B:498:ARG:NH2	2:J:25:SER:OG	1.84	1.09
1:B:484:VAL:CG2	2:I:69:THR:HG21	1.80	1.09
1:A:721:VAL:HG12	1:A:722:ASN:H	1.07	1.09
1:B:494:ASN:OD1	2:I:69:THR:HG22	1.51	1.08
1:B:461:GLN:OE1	2:H:62:ASP:OD2	1.69	1.08
1:A:469:ALA:C	2:G:70:LEU:HD21	1.72	1.08
1:A:513:LEU:HA	1:A:516:GLN:HE22	1.05	1.08
1:A:506:LEU:HD23	1:A:544:VAL:HA	1.31	1.08
2:K:145:ARG:HG3	2:L:143:ASN:O	1.53	1.08
1:A:705:ILE:HA	1:A:823:THR:HG22	1.35	1.08
1:A:469:ALA:HB3	2:G:71:LEU:HD22	1.26	1.07
1:A:470:ASN:CA	2:G:70:LEU:HD23	1.82	1.07
1:A:473:HIS:CD2	2:G:70:LEU:HD13	1.80	1.07
1:B:779:ASP:HA	1:B:798:ILE:HD11	1.36	1.07
1:A:660:ASP:HB3	1:B:539:ARG:HD2	1.15	1.06
1:B:486:ASP:HA	2:I:70:LEU:HD21	1.35	1.06
1:B:518:PHE:HD2	2:H:69:THR:HG23	1.12	1.06
1:A:473:HIS:H	2:G:70:LEU:CD2	1.68	1.06
2:C:142:GLN:NE2	2:N:145:ARG:NH1	2.02	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:199:VAL:HG12	1:A:200:VAL:H	1.16	1.05
1:B:477:ASN:ND2	2:I:39:ILE:CG2	2.18	1.05
1:B:432:VAL:HA	1:B:436:ILE:HD11	1.09	1.04
2:H:76:ASN:HB2	2:J:76:ASN:H	1.17	1.04
1:B:630:ARG:CD	2:L:71:LEU:HB2	1.59	1.04
1:A:521:MET:HB3	1:A:522:PRO:HD3	1.39	1.04
1:A:714:ARG:HA	1:A:720:TYR:HB3	1.39	1.04
1:B:464:GLN:NE2	2:H:64:GLY:C	2.09	1.04
1:B:498:ARG:NH1	2:J:25:SER:OG	1.87	1.03
1:B:464:GLN:HB2	2:H:66:LEU:HA	1.35	1.03
1:A:421:ARG:CG	1:B:523:VAL:HG21	1.89	1.02
1:B:297:ARG:HG3	1:B:848:PHE:CD2	1.94	1.02
1:B:462:GLN:C	2:H:64:GLY:CA	2.28	1.02
1:B:435:ILE:HG22	1:B:436:ILE:H	1.24	1.02
1:A:339:LEU:HD22	1:A:588:ILE:HA	1.40	1.02
1:B:745:ALA:HB1	1:B:748:THR:HB	1.41	1.02
1:A:285:ILE:HD11	1:A:861:ASP:HB2	1.39	1.02
1:A:568:VAL:HG12	1:A:569:GLN:H	1.21	1.02
1:B:470:ASN:HA	2:I:126:ARG:NH2	1.74	1.02
1:B:573:THR:HG22	1:B:574:GLU:N	1.75	1.01
2:I:76:ASN:N	2:M:76:ASN:HB2	1.76	1.00
1:B:462:GLN:C	2:H:64:GLY:HA2	1.82	1.00
1:A:318:TRP:HA	1:A:321:ILE:HD12	1.44	1.00
1:B:428:GLN:OE1	1:B:456:PHE:HB2	1.61	1.00
2:L:38:ILE:HG22	2:L:42:ASN:HD21	1.25	1.00
1:B:462:GLN:HA	2:H:64:GLY:N	1.74	1.00
1:B:718:TYR:HB3	1:B:721:VAL:HG21	1.44	1.00
1:B:484:VAL:CG2	2:I:69:THR:CG2	2.38	1.00
2:I:38:ILE:HG22	2:I:42:ASN:HD21	1.25	1.00
1:A:546:LEU:HD21	1:A:588:ILE:HD13	1.43	1.00
1:B:646:LEU:HA	1:B:649:LEU:HD12	1.40	1.00
1:A:540:LEU:O	1:A:544:VAL:HG23	1.62	0.99
1:B:492:VAL:HG11	1:B:558:MET:HG3	1.44	0.99
1:B:573:THR:CG2	1:B:574:GLU:H	1.76	0.99
2:C:38:ILE:HG22	2:C:42:ASN:HD21	1.25	0.99
1:B:518:PHE:HD2	2:H:69:THR:CG2	1.62	0.99
1:A:513:LEU:HA	1:A:516:GLN:NE2	1.77	0.99
1:B:504:ASN:O	2:J:70:LEU:HD22	1.63	0.98
1:B:498:ARG:NE	2:J:23:LEU:HD11	1.79	0.98
1:B:466:PHE:CD1	2:H:80:THR:HG21	1.99	0.98
1:B:99:GLU:HB3	1:B:100:PRO:HD3	1.45	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:122:LEU:HD11	1:A:200:VAL:HG12	1.45	0.98
1:A:469:ALA:HB1	2:G:71:LEU:HD22	1.44	0.98
2:F:38:ILE:HG22	2:F:42:ASN:HD21	1.25	0.98
1:B:791:LYS:O	1:B:792:VAL:HG22	1.63	0.97
1:B:318:TRP:HA	1:B:321:ILE:HD12	1.46	0.97
1:B:464:GLN:HB3	2:H:66:LEU:HD23	1.43	0.97
1:B:255:TYR:CA	2:N:69:THR:HG23	1.94	0.97
1:A:461:GLN:HB3	2:F:32:GLN:NE2	1.76	0.97
1:B:498:ARG:HG2	2:I:32:GLN:HE22	1.21	0.96
1:B:503:ILE:HG21	1:B:544:VAL:HG13	1.42	0.96
1:B:305:GLN:HB2	2:M:70:LEU:HD23	1.47	0.96
1:A:470:ASN:HA	2:G:70:LEU:HD23	1.43	0.96
1:B:743:ASP:C	1:B:744:TYR:HD2	1.66	0.96
1:A:524:ASP:O	1:A:526:LYS:N	1.99	0.96
1:A:421:ARG:HG2	1:B:523:VAL:HG21	1.46	0.95
2:O:23:LEU:HD23	2:O:24:TYR:N	1.82	0.95
1:B:428:GLN:HB2	1:B:456:PHE:CD1	2.01	0.95
1:B:464:GLN:CB	2:H:66:LEU:HA	1.96	0.95
1:B:518:PHE:CB	1:B:519:PRO:HD2	1.95	0.95
1:B:790:ARG:HE	1:B:790:ARG:CA	1.77	0.95
1:B:444:ARG:HH21	1:B:520:THR:HG23	1.29	0.95
1:B:494:ASN:ND2	1:B:495:ASP:H	1.64	0.95
1:B:180:TYR:CE2	1:B:850:VAL:HG21	2.02	0.94
1:B:630:ARG:CB	2:L:71:LEU:HB2	1.90	0.94
1:B:498:ARG:CG	2:I:32:GLN:NE2	2.29	0.94
1:A:452:PRO:HG2	1:B:521:MET:O	1.67	0.94
2:C:106:ARG:HD3	2:C:106:ARG:H	1.32	0.94
2:I:106:ARG:HD3	2:I:106:ARG:H	1.32	0.94
1:B:491:GLN:HE21	1:B:565:MET:H	0.99	0.94
1:B:744:TYR:HD2	1:B:744:TYR:N	1.61	0.94
2:L:106:ARG:H	2:L:106:ARG:HD3	1.32	0.94
1:B:494:ASN:HB2	2:I:69:THR:HG21	1.48	0.93
2:F:106:ARG:HD3	2:F:106:ARG:H	1.32	0.93
2:H:76:ASN:HB2	2:J:76:ASN:CB	1.98	0.93
1:A:428:GLN:HB2	1:A:456:PHE:CE1	2.04	0.93
1:A:464:GLN:HG3	2:F:39:ILE:CD1	1.98	0.93
2:C:142:GLN:O	2:N:145:ARG:HD3	1.67	0.93
1:A:469:ALA:O	2:G:70:LEU:HD21	0.76	0.93
1:B:513:LEU:HA	1:B:516:GLN:CD	1.88	0.93
1:A:113:PRO:HG2	1:A:609:ASN:HB3	1.52	0.92
1:B:498:ARG:HB3	1:B:505:GLN:HE22	1.28	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:864:GLU:OE1	1:A:865:PRO:HD2	1.67	0.92
1:B:509:ALA:O	1:B:513:LEU:HG	1.68	0.92
1:B:630:ARG:CB	2:L:71:LEU:HD13	1.98	0.92
1:B:537:SER:O	1:B:540:LEU:HB3	1.69	0.92
1:B:548:ARG:NH1	1:B:878:ASN:H	1.68	0.92
1:B:744:TYR:CD2	1:B:744:TYR:N	2.31	0.92
1:B:848:PHE:O	1:B:849:THR:OG1	1.88	0.92
1:A:421:ARG:HG2	1:B:523:VAL:CG2	1.99	0.92
1:B:486:ASP:CA	2:I:70:LEU:HD21	1.99	0.92
1:A:371:ASN:HA	1:A:374:ALA:HB3	1.52	0.92
1:A:270:ILE:HD11	1:A:292:LEU:HD11	1.51	0.92
2:K:145:ARG:HD2	2:L:143:ASN:CA	2.00	0.92
1:A:428:GLN:HB2	1:A:456:PHE:CD1	2.05	0.92
1:B:200:VAL:CG2	1:B:243:SER:HB3	2.00	0.92
1:A:571:LEU:HD23	1:B:531:ARG:NH2	1.85	0.91
1:A:470:ASN:HA	2:G:70:LEU:CD2	2.01	0.91
2:I:75:ALA:HB3	2:M:76:ASN:HA	1.50	0.91
1:B:428:GLN:HB2	1:B:456:PHE:HD1	1.36	0.91
1:A:470:ASN:CA	2:G:70:LEU:CD2	2.48	0.91
1:B:255:TYR:H	2:N:69:THR:HG23	1.36	0.91
1:A:464:GLN:HG3	2:F:39:ILE:HD13	1.50	0.91
1:B:465:ASN:HD22	1:B:468:VAL:HG23	1.35	0.91
1:B:471:TRP:HB2	1:B:512:GLN:OE1	1.70	0.90
1:A:187:ALA:O	1:A:188:VAL:HG23	1.70	0.90
2:F:57:ARG:HH11	2:F:94:ASN:HD21	1.19	0.90
1:A:371:ASN:C	1:A:373:GLN:H	1.70	0.90
1:B:432:VAL:HA	1:B:436:ILE:CD1	2.00	0.90
1:A:158:GLY:H	1:A:762:ALA:HB3	1.35	0.90
1:A:404:LEU:HD22	1:A:435:ILE:HD11	1.53	0.90
2:K:145:ARG:HD2	2:L:143:ASN:HA	1.52	0.90
1:A:461:GLN:HB3	2:F:32:GLN:HE21	1.37	0.90
1:A:471:TRP:HB2	1:A:512:GLN:OE1	1.70	0.90
1:B:462:GLN:C	2:H:64:GLY:HA3	1.93	0.89
1:B:422:GLU:HA	1:B:425:VAL:HG23	1.53	0.89
1:B:484:VAL:HG21	2:I:69:THR:HG21	0.91	0.89
1:A:660:ASP:CB	1:B:539:ARG:HD2	2.01	0.89
1:A:470:ASN:C	2:G:70:LEU:CD2	2.41	0.89
1:A:471:TRP:O	1:A:475:VAL:HG23	1.72	0.89
1:B:494:ASN:OD1	2:I:69:THR:CG2	2.20	0.89
1:B:470:ASN:CG	2:I:126:ARG:HH22	1.74	0.89
1:A:469:ALA:HB3	2:G:71:LEU:CD2	2.02	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:126:PHE:N	1:A:126:PHE:HD2	1.69	0.89
1:B:446:HIS:O	1:B:447:TYR:HB2	1.72	0.89
2:C:142:GLN:CD	2:N:145:ARG:NH1	2.08	0.89
1:A:361:GLN:HG3	1:A:362:SER:H	1.37	0.89
1:B:790:ARG:HA	1:B:790:ARG:NE	1.88	0.88
1:B:513:LEU:HA	1:B:516:GLN:NE2	1.88	0.88
1:B:467:GLN:HE22	2:J:69:THR:HG21	1.37	0.88
1:B:217:THR:HG22	1:B:221:VAL:HG21	1.54	0.88
1:A:416:ASN:HB3	1:A:424:LEU:HD22	1.54	0.88
1:B:868:ALA:HB3	1:B:876:ILE:HG12	1.51	0.88
1:A:546:LEU:HD21	1:A:588:ILE:CD1	2.03	0.88
1:B:119:GLN:HG2	1:B:181:LEU:HD21	1.52	0.88
1:B:492:VAL:HG11	1:B:558:MET:CG	2.04	0.88
1:B:874:MET:O	1:B:875:ARG:HB2	1.71	0.88
1:A:470:ASN:O	2:G:70:LEU:CD2	2.20	0.88
1:A:803:ASN:HD21	1:A:806:SER:HB2	1.38	0.88
1:A:420:ILE:HD11	1:A:422:GLU:HG2	1.56	0.88
1:B:510:LEU:HD11	1:B:537:SER:HB3	1.56	0.88
2:I:57:ARG:HH11	2:I:94:ASN:HD21	1.20	0.88
2:H:76:ASN:CB	2:J:76:ASN:HB2	2.03	0.88
2:H:76:ASN:HA	2:J:75:ALA:HB3	1.53	0.88
1:A:678:ARG:O	1:A:681:ILE:HG22	1.73	0.88
2:H:76:ASN:HB2	2:J:76:ASN:N	1.88	0.87
1:B:413:VAL:HG12	1:B:414:VAL:N	1.88	0.87
1:B:457:GLN:O	1:B:459:ALA:N	2.06	0.87
1:B:518:PHE:CD2	2:H:69:THR:HG21	2.03	0.87
1:A:469:ALA:CB	2:G:71:LEU:CD2	2.50	0.87
1:B:678:ARG:O	1:B:681:ILE:HG22	1.73	0.87
1:B:491:GLN:NE2	1:B:565:MET:H	1.71	0.87
1:B:498:ARG:CG	2:I:32:GLN:HE22	1.88	0.87
1:A:587:LEU:HD13	1:A:587:LEU:O	1.75	0.87
1:B:454:THR:HG21	1:B:476:ASN:HD21	1.40	0.87
1:A:509:ALA:O	1:A:513:LEU:HG	1.74	0.87
1:A:712:LEU:HB3	1:A:721:VAL:O	1.75	0.87
2:G:142:GLN:O	2:I:145:ARG:HD2	1.74	0.86
1:B:590:ASN:H	1:B:590:ASN:HD22	1.19	0.86
1:A:366:PHE:C	1:A:368:THR:H	1.78	0.86
1:B:771:VAL:HB	1:B:809:PHE:HB3	1.55	0.86
1:A:164:GLU:OE2	1:A:636:LYS:HD3	1.76	0.86
2:L:57:ARG:HH11	2:L:94:ASN:HD21	1.20	0.86
1:A:313:ASN:ND2	1:B:534:LEU:HD23	1.91	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:647:LYS:HG3	1:A:654:VAL:HG21	1.55	0.85
1:B:368:THR:HG22	1:B:371:ASN:HD21	1.39	0.85
1:B:594:ILE:HD12	1:B:594:ILE:C	1.96	0.85
2:I:150:PHE:HB2	2:I:152:PHE:CE1	2.12	0.85
1:B:254:GLU:C	2:N:69:THR:CG2	2.44	0.85
2:C:57:ARG:HH11	2:C:94:ASN:HD21	1.20	0.85
1:A:721:VAL:HG12	1:A:722:ASN:N	1.91	0.85
1:B:415:PRO:HG2	1:B:480:PHE:HD1	1.40	0.85
2:I:76:ASN:H	2:M:76:ASN:CB	1.88	0.85
2:L:150:PHE:HB2	2:L:152:PHE:CE1	2.12	0.85
2:H:76:ASN:CB	2:J:76:ASN:H	1.90	0.84
1:B:406:SER:O	1:B:409:TRP:HB3	1.77	0.84
2:C:150:PHE:HB2	2:C:152:PHE:CE1	2.12	0.84
1:A:406:SER:O	1:A:409:TRP:HB3	1.77	0.84
1:A:658:PRO:HG2	1:B:348:LYS:HG2	1.59	0.84
1:A:779:ASP:HA	1:A:798:ILE:HD11	1.58	0.84
1:A:118:LYS:HG2	1:A:119:GLN:H	1.37	0.84
1:B:204:THR:HG22	1:B:244:ILE:HG22	1.59	0.84
1:A:473:HIS:H	2:G:70:LEU:HD22	0.74	0.84
1:B:779:ASP:CA	1:B:798:ILE:HD11	2.06	0.84
1:A:136:ALA:O	1:A:137:ASN:HB3	1.76	0.84
1:A:148:TRP:CZ3	1:A:246:HIS:HB2	2.13	0.84
1:A:461:GLN:HB2	2:F:32:GLN:HE22	1.02	0.84
1:B:684:LEU:HD13	2:N:68:THR:HG21	1.60	0.84
1:B:160:TYR:OH	1:B:635:GLN:HG3	1.76	0.84
1:A:420:ILE:CD1	1:A:422:GLU:HG2	2.08	0.83
2:F:150:PHE:HB2	2:F:152:PHE:CE1	2.12	0.83
1:B:464:GLN:HE21	2:H:64:GLY:C	1.78	0.83
1:B:735:LEU:HG	1:B:760:VAL:O	1.76	0.83
1:B:428:GLN:HG2	1:B:429:LEU:H	1.43	0.83
1:B:769:SER:HB3	1:B:807:ASN:OD1	1.78	0.83
1:A:689:MET:HA	1:A:692:ILE:HD12	1.60	0.83
1:B:470:ASN:CA	2:I:126:ARG:NH2	2.41	0.83
1:B:477:ASN:HD21	2:I:39:ILE:CG2	1.92	0.83
1:A:712:LEU:HG	1:A:819:PRO:HB2	1.60	0.83
1:A:660:ASP:HB3	1:B:539:ARG:CD	2.07	0.83
1:A:779:ASP:HA	1:A:798:ILE:CD1	2.09	0.83
1:A:473:HIS:HD2	2:G:70:LEU:HD12	0.67	0.83
1:B:466:PHE:CE1	2:H:80:THR:HG21	2.13	0.83
2:E:69:THR:O	2:E:70:LEU:HB2	1.78	0.83
1:A:125:ILE:HD12	1:A:125:ILE:N	1.93	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:498:ARG:HH12	2:J:25:SER:HB3	0.80	0.82
2:H:69:THR:O	2:H:70:LEU:HB2	1.79	0.82
1:B:457:GLN:HB2	1:B:476:ASN:CG	1.99	0.82
1:B:722:ASN:HD22	1:B:824:LYS:HA	1.43	0.82
1:A:263[A]:GLU:HB3	1:A:264:PRO:CD	2.10	0.82
2:N:69:THR:O	2:N:70:LEU:HB2	1.78	0.82
1:A:396:PHE:HB3	1:A:578:LEU:CD1	2.10	0.82
1:B:772:ILE:HA	1:B:775:ILE:HD13	1.62	0.82
1:B:510:LEU:HD12	1:B:513:LEU:HD12	1.62	0.82
1:A:508:GLU:C	1:A:512:GLN:HE21	1.82	0.82
1:B:775:ILE:H	1:B:775:ILE:HD12	1.44	0.82
1:B:471:TRP:O	1:B:475:VAL:HG23	1.80	0.81
1:B:518:PHE:HB3	1:B:519:PRO:HD2	1.61	0.81
1:A:548:ARG:HH12	1:A:878:ASN:H	1.26	0.81
1:B:590:ASN:HD22	1:B:590:ASN:N	1.78	0.81
2:K:145:ARG:HD3	2:L:143:ASN:HA	0.81	0.81
1:A:126:PHE:CD2	1:A:126:PHE:N	2.41	0.81
2:O:106:ARG:HD3	2:O:106:ARG:H	1.45	0.81
1:B:489:LEU:HG	2:M:69:THR:HG23	1.63	0.81
2:K:69:THR:O	2:K:70:LEU:HB2	1.79	0.81
1:B:724:ALA:HB2	1:B:824:LYS:HE3	1.61	0.81
1:B:368:THR:HA	1:B:579:THR:HG23	1.61	0.81
1:A:192:ASN:O	1:A:193:SER:HB3	1.77	0.81
1:A:449:ASN:HD21	1:A:455:PRO:HG3	1.46	0.81
2:I:57:ARG:NH1	2:I:94:ASN:HD21	1.78	0.81
1:A:390:ARG:HE	1:A:574:GLU:HG2	1.46	0.81
1:B:506:LEU:HD23	1:B:544:VAL:HA	1.63	0.81
2:C:57:ARG:NH1	2:C:94:ASN:HD21	1.79	0.81
1:B:462:GLN:HA	2:H:64:GLY:HA3	1.62	0.81
2:L:57:ARG:NH1	2:L:94:ASN:HD21	1.79	0.81
1:B:811:LEU:HD23	1:B:811:LEU:N	1.94	0.81
1:B:435:ILE:O	1:B:438:PRO:HD2	1.80	0.81
1:B:508:GLU:O	1:B:512:GLN:HG3	1.81	0.80
1:A:790:ARG:CZ	1:B:287:ASN:OD1	2.28	0.80
1:B:180:TYR:HE2	1:B:850:VAL:HG21	1.47	0.80
1:A:216:GLU:CD	1:A:216:GLU:H	1.84	0.80
1:B:464:GLN:NE2	2:H:64:GLY:CA	2.45	0.80
1:B:464:GLN:HE21	2:H:64:GLY:CA	1.94	0.80
1:B:521:MET:HB2	1:B:522:PRO:CD	2.11	0.80
1:A:762:ALA:O	1:A:763:LEU:HG	1.80	0.80
1:A:437:TYR:N	1:A:438:PRO:HD2	1.96	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:312:ASP:O	1:A:313:ASN:HB3	1.80	0.80
1:A:570:THR:HG22	1:A:571:LEU:H	1.47	0.80
1:B:494:ASN:OD1	2:I:69:THR:CA	2.30	0.80
1:A:721:VAL:CG1	1:A:722:ASN:H	1.88	0.80
1:A:270:ILE:HG23	1:A:854:LEU:HD22	1.64	0.80
1:B:422:GLU:HA	1:B:425:VAL:CG2	2.12	0.80
1:B:166:PHE:HE2	1:B:689:MET:HA	1.47	0.80
1:B:156:PRO:HB2	1:B:161:ASP:HB3	1.63	0.80
1:B:193:SER:HB2	1:B:226:ALA:HA	1.64	0.80
1:A:169:LEU:O	1:A:173:VAL:HG23	1.82	0.80
1:B:630:ARG:HB2	2:L:71:LEU:HB2	1.61	0.80
1:A:188:VAL:O	1:A:198:LYS:HA	1.82	0.79
1:A:452:PRO:HG2	1:B:521:MET:C	2.02	0.79
1:A:150:LEU:HD12	1:A:696:SER:HB2	1.64	0.79
1:B:283:ASN:HD21	1:B:868:ALA:HA	1.47	0.79
1:B:283:ASN:ND2	1:B:868:ALA:HA	1.96	0.79
1:B:224:PHE:O	1:B:228:MET:HG2	1.81	0.79
1:B:366:PHE:C	1:B:368:THR:H	1.84	0.79
1:B:470:ASN:CA	2:I:126:ARG:HH22	1.94	0.79
1:A:126:PHE:H	1:A:126:PHE:HD2	1.26	0.79
1:B:306:ASP:C	1:B:308:LEU:H	1.86	0.79
2:D:76:ASN:H	2:L:76:ASN:HB2	1.47	0.79
2:F:57:ARG:NH1	2:F:94:ASN:HD21	1.79	0.79
2:G:145:ARG:NH1	2:I:142:GLN:OE1	2.16	0.79
1:A:303:LEU:HA	1:A:615:ASN:ND2	1.98	0.79
1:B:869:VAL:CG1	1:B:873:ASN:HA	2.13	0.79
2:M:23:LEU:HD23	2:M:24:TYR:N	1.98	0.79
2:K:142:GLN:OE1	2:L:145:ARG:CZ	2.30	0.79
1:B:466:PHE:HE1	2:H:80:THR:HG22	1.45	0.79
1:A:199:VAL:HG12	1:A:200:VAL:N	1.95	0.79
2:H:76:ASN:HB2	2:J:76:ASN:HB2	1.62	0.79
1:A:659:ASP:O	1:A:662:MET:HB2	1.83	0.79
1:A:521:MET:HA	1:A:521:MET:HE2	1.65	0.79
2:O:27:VAL:O	2:O:31:ILE:HG12	1.82	0.79
1:B:265:LEU:HB3	1:B:296:ALA:HB1	1.65	0.78
1:A:726:ASN:O	1:A:727:LEU:HG	1.82	0.78
2:J:23:LEU:HD23	2:J:24:TYR:N	1.98	0.78
2:G:23:LEU:HD23	2:G:24:TYR:N	1.98	0.78
1:A:447:TYR:OH	1:A:458:ILE:HG23	1.82	0.78
1:B:701:GLN:HA	1:B:761:GLY:O	1.82	0.78
1:B:492:VAL:HG13	1:B:565:MET:SD	2.24	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:195:ASP:O	1:B:197:GLY:N	2.16	0.78
1:B:508:GLU:C	1:B:512:GLN:HE21	1.87	0.78
1:B:428:GLN:HG2	1:B:429:LEU:N	1.98	0.78
1:A:131:LEU:HD12	1:A:132:PRO:HD2	1.66	0.78
1:A:118:LYS:HG2	1:A:119:GLN:N	1.99	0.78
1:A:194:ARG:HH11	1:A:229:ARG:HG2	1.48	0.78
1:A:226:ALA:O	1:A:228:MET:N	2.17	0.78
1:B:689:MET:HA	1:B:692:ILE:HD12	1.65	0.78
1:A:755:GLN:O	1:A:757:VAL:HG23	1.83	0.78
1:A:666:ARG:HG3	1:A:667:ASP:N	1.98	0.78
2:E:57:ARG:HH11	2:E:94:ASN:HD21	1.31	0.78
1:B:282:VAL:HG13	1:B:283:ASN:H	1.48	0.78
1:A:371:ASN:HB3	1:A:583:SER:HB2	1.66	0.78
2:D:23:LEU:HD23	2:D:24:TYR:N	1.98	0.77
1:B:119:GLN:HE21	1:B:181:LEU:HD11	1.49	0.77
1:B:513:LEU:HA	1:B:516:GLN:OE1	1.84	0.77
1:A:771:VAL:HG13	1:A:772:ILE:H	1.47	0.77
1:B:508:GLU:OE2	2:J:71:LEU:CA	2.29	0.77
2:H:57:ARG:HH11	2:H:94:ASN:HD21	1.31	0.77
1:A:305:GLN:O	1:A:307:ARG:HG3	1.85	0.77
1:A:482:GLN:OE1	1:A:493:LEU:HD22	1.84	0.77
1:A:506:LEU:CD2	1:A:544:VAL:HA	2.12	0.77
1:A:445:MET:O	1:A:447:TYR:N	2.16	0.77
1:B:700:ALA:HB2	1:B:827:LYS:HB2	1.67	0.77
1:B:825:VAL:HG12	1:B:826:TYR:N	1.99	0.77
1:B:204:THR:CG2	1:B:244:ILE:HG22	2.15	0.77
1:B:498:ARG:HH11	2:J:25:SER:HB3	1.47	0.77
1:A:461:GLN:CA	2:F:32:GLN:HE22	1.98	0.77
1:A:639:LYS:O	1:A:643:GLU:HG3	1.84	0.77
2:K:145:ARG:HD2	2:L:142:GLN:C	2.05	0.77
1:B:119:GLN:NE2	1:B:181:LEU:HD11	2.00	0.77
1:B:594:ILE:HD12	1:B:594:ILE:O	1.85	0.77
1:B:540:LEU:O	1:B:544:VAL:HG23	1.85	0.77
1:A:473:HIS:CG	2:G:70:LEU:HD13	2.09	0.77
1:B:658:PRO:HB2	1:B:661:GLN:HG2	1.67	0.77
1:B:467:GLN:HE22	2:J:69:THR:CG2	1.97	0.76
1:A:270:ILE:CD1	1:A:292:LEU:HD11	2.14	0.76
1:B:170:TYR:HE1	1:B:681:ILE:HG23	1.49	0.76
1:A:428:GLN:NE2	1:A:455:PRO:HB2	2.00	0.76
1:B:457:GLN:HB2	1:B:476:ASN:ND2	2.00	0.76
1:A:498:ARG:HB3	1:A:505:GLN:HE22	1.48	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:501:HIS:O	1:A:503:ILE:HG13	1.85	0.76
2:C:150:PHE:HB2	2:C:152:PHE:HE1	1.49	0.76
2:D:70:LEU:HD12	2:D:71:LEU:H	1.49	0.76
1:B:498:ARG:HE	2:J:23:LEU:CD1	1.96	0.76
2:F:38:ILE:HG22	2:F:42:ASN:ND2	1.99	0.76
2:C:38:ILE:HG22	2:C:42:ASN:ND2	1.99	0.76
1:B:218:GLU:HG3	1:B:221:VAL:HG23	1.66	0.76
2:N:57:ARG:HH11	2:N:94:ASN:HD21	1.31	0.76
1:B:470:ASN:HB3	2:J:71:LEU:HD23	0.85	0.76
2:L:150:PHE:HB2	2:L:152:PHE:HE1	1.50	0.76
2:J:70:LEU:HD12	2:J:71:LEU:H	1.49	0.76
2:M:70:LEU:HD12	2:M:71:LEU:H	1.49	0.76
1:B:371:ASN:HD22	1:B:583:SER:HB3	1.50	0.76
2:I:150:PHE:HB2	2:I:152:PHE:HE1	1.50	0.76
1:B:492:VAL:HG11	1:B:558:MET:SD	2.26	0.76
2:G:70:LEU:HD12	2:G:71:LEU:H	1.49	0.76
1:A:510:LEU:HD12	1:A:513:LEU:HD12	1.67	0.76
2:I:38:ILE:HG22	2:I:42:ASN:ND2	1.99	0.75
1:A:701:GLN:HB3	1:A:826:TYR:HD2	1.51	0.75
1:B:400:ASN:CG	1:B:403:SER:HB2	2.05	0.75
1:A:371:ASN:C	1:A:373:GLN:N	2.39	0.75
2:I:76:ASN:CB	2:M:76:ASN:HB2	2.17	0.75
1:A:396:PHE:HB3	1:A:578:LEU:HD12	1.66	0.75
1:B:486:ASP:CB	2:I:70:LEU:CD2	2.65	0.75
1:A:420:ILE:HG12	1:A:423:SER:HB2	1.68	0.75
2:L:38:ILE:HG22	2:L:42:ASN:ND2	1.99	0.75
1:B:133:ILE:HD12	1:B:145:ARG:HB2	1.69	0.75
1:A:508:GLU:O	1:A:512:GLN:HG3	1.86	0.75
2:D:38:ILE:HG22	2:D:42:ASN:HD21	1.52	0.75
1:A:275:PRO:HB2	1:A:278:ILE:CD1	2.17	0.75
1:B:275:PRO:HB2	1:B:278:ILE:HG13	1.67	0.75
2:J:38:ILE:HG22	2:J:42:ASN:HD21	1.52	0.75
2:D:70:LEU:HD12	2:D:71:LEU:N	2.02	0.75
2:D:150:PHE:HB2	2:D:152:PHE:CE1	2.22	0.75
2:J:70:LEU:HD12	2:J:71:LEU:N	2.02	0.74
2:M:70:LEU:HD12	2:M:71:LEU:N	2.02	0.74
2:M:150:PHE:HB2	2:M:152:PHE:CE1	2.22	0.74
2:K:57:ARG:HH11	2:K:94:ASN:HD21	1.31	0.74
1:A:503:ILE:C	1:A:505:GLN:H	1.87	0.74
2:K:142:GLN:OE1	2:L:145:ARG:NH1	2.20	0.74
1:A:603:TYR:O	1:A:606:VAL:HG23	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:38:ILE:HG22	2:M:42:ASN:HD21	1.52	0.74
1:B:551:ALA:O	1:B:555:GLU:HB2	1.88	0.74
2:F:150:PHE:HB2	2:F:152:PHE:HE1	1.50	0.74
1:B:113:PRO:HG2	1:B:609:ASN:HB3	1.69	0.74
1:B:783:PHE:HD1	1:B:783:PHE:H	1.36	0.74
1:A:246:HIS:HD2	1:A:248:ILE:HB	1.53	0.74
2:N:38:ILE:HG22	2:N:42:ASN:HD21	1.52	0.74
1:B:360:ILE:O	1:B:361:GLN:HB2	1.86	0.74
2:J:150:PHE:HB2	2:J:152:PHE:CE1	2.22	0.74
1:A:400:ASN:OD1	1:A:403:SER:HB2	1.87	0.74
2:E:38:ILE:HG22	2:E:42:ASN:HD21	1.52	0.74
1:B:490:ASN:O	1:B:492:VAL:HG23	1.88	0.74
1:A:160:TYR:HE1	1:A:633:LEU:HA	1.53	0.74
1:B:855:LEU:O	1:B:858:VAL:HG23	1.87	0.74
2:G:150:PHE:HB2	2:G:152:PHE:CE1	2.22	0.74
2:E:150:PHE:HB2	2:E:152:PHE:CE1	2.23	0.74
1:A:401:TYR:O	1:A:404:LEU:HB2	1.88	0.74
1:B:126:PHE:N	1:B:126:PHE:CD2	2.52	0.74
2:H:150:PHE:HB2	2:H:152:PHE:CE1	2.23	0.74
2:K:150:PHE:HB2	2:K:152:PHE:CE1	2.23	0.74
1:B:415:PRO:HG2	1:B:480:PHE:CD1	2.21	0.74
1:B:434:THR:HG22	1:B:434:THR:O	1.86	0.74
1:A:803:ASN:ND2	1:A:806:SER:HB2	2.02	0.74
1:B:482:GLN:HB2	1:B:493:LEU:HD22	1.68	0.73
1:A:473:HIS:CE1	2:G:24:TYR:CD2	2.75	0.73
1:A:445:MET:C	1:A:447:TYR:H	1.91	0.73
2:O:38:ILE:HG22	2:O:42:ASN:HD21	1.52	0.73
2:G:38:ILE:HD12	2:G:65:LEU:HD23	1.70	0.73
2:O:88:PHE:O	2:O:92:VAL:HG23	1.88	0.73
2:N:150:PHE:HB2	2:N:152:PHE:CE1	2.23	0.73
1:B:462:GLN:CB	2:H:64:GLY:HA2	2.17	0.73
2:G:38:ILE:HG22	2:G:42:ASN:HD21	1.52	0.73
2:H:38:ILE:HG22	2:H:42:ASN:HD21	1.52	0.73
1:B:401:TYR:O	1:B:404:LEU:HB2	1.88	0.73
1:A:313:ASN:CG	1:B:534:LEU:HD23	2.08	0.73
1:A:571:LEU:O	1:A:571:LEU:HD13	1.87	0.73
1:B:464:GLN:HE21	2:H:64:GLY:HA3	1.54	0.73
1:B:481:ARG:HG2	2:I:65:LEU:HD12	1.66	0.73
2:D:76:ASN:HB2	2:L:76:ASN:HB2	1.71	0.73
2:K:38:ILE:HG22	2:K:42:ASN:HD21	1.52	0.73
1:A:415:PRO:O	1:A:417:ASP:N	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:464:GLN:CB	2:H:66:LEU:HD23	2.18	0.73
1:B:718:TYR:HB3	1:B:721:VAL:CG2	2.17	0.73
1:B:170:TYR:CE1	1:B:681:ILE:HG23	2.23	0.73
1:B:393:SER:HB3	1:B:573:THR:HG21	1.70	0.73
1:A:817:TRP:CH2	1:A:819:PRO:HA	2.23	0.73
1:A:188:VAL:HG12	1:A:189:GLU:N	2.04	0.73
1:B:494:ASN:OD1	2:I:69:THR:HA	1.88	0.73
2:G:70:LEU:HD12	2:G:71:LEU:N	2.02	0.73
1:A:588:ILE:HG22	1:A:589:GLY:N	2.02	0.73
1:B:722:ASN:O	1:B:824:LYS:HB2	1.88	0.73
1:B:194:ARG:O	1:B:195:ASP:O	2.06	0.73
1:A:769:SER:HB3	1:A:807:ASN:OD1	1.89	0.73
1:B:454:THR:HG21	1:B:476:ASN:ND2	2.02	0.72
1:B:496:ASN:HB3	1:B:498:ARG:HB2	1.71	0.72
2:J:38:ILE:HD12	2:J:65:LEU:HD23	1.70	0.72
1:A:717:MET:SD	1:A:829:VAL:HG13	2.29	0.72
1:A:664:ARG:HD3	1:B:538:ASN:OD1	1.89	0.72
1:B:722:ASN:ND2	1:B:824:LYS:HA	2.03	0.72
1:A:195:ASP:CG	1:A:196:ALA:N	2.43	0.72
1:B:481:ARG:HG2	2:I:65:LEU:HD13	0.76	0.72
1:A:473:HIS:CE1	2:G:24:TYR:HD2	2.06	0.72
1:B:246:HIS:CD2	1:B:248:ILE:H	2.08	0.72
1:A:711:GLN:C	1:A:712:LEU:HD23	2.10	0.72
1:A:548:ARG:NH1	1:A:878:ASN:H	1.87	0.72
2:M:38:ILE:HD12	2:M:65:LEU:HD23	1.70	0.72
1:B:615:ASN:O	1:B:618:ILE:HB	1.89	0.72
2:K:145:ARG:CG	2:L:143:ASN:O	2.36	0.72
1:A:248:ILE:O	1:A:251:ALA:HB3	1.89	0.72
1:B:308:LEU:HB3	1:B:310:LEU:HD21	1.72	0.72
2:C:88:PHE:O	2:C:92:VAL:HG23	1.89	0.72
1:B:449:ASN:ND2	1:B:455:PRO:HG3	2.03	0.72
1:B:442:MET:HG2	1:B:443:GLN:H	1.54	0.72
1:B:498:ARG:NE	2:J:23:LEU:CD1	2.52	0.72
1:A:428:GLN:OE1	1:A:456:PHE:N	2.23	0.72
1:B:374:ALA:HB1	1:B:580:SER:HA	1.69	0.72
1:B:540:LEU:O	1:B:540:LEU:HG	1.89	0.72
1:A:629:ASN:O	1:A:631:LEU:N	2.20	0.72
1:A:428:GLN:CB	1:A:456:PHE:CE1	2.72	0.72
1:B:126:PHE:HD2	1:B:126:PHE:N	1.88	0.72
1:A:855:LEU:O	1:A:857:PHE:N	2.22	0.72
1:B:464:GLN:HB2	2:H:66:LEU:CA	2.13	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:428:GLN:CD	1:A:455:PRO:HB2	2.09	0.72
1:A:428:GLN:HG2	1:A:429:LEU:H	1.54	0.72
1:B:717:MET:HE3	1:B:718:TYR:HE1	1.53	0.72
2:F:88:PHE:O	2:F:92:VAL:HG23	1.89	0.72
2:D:88:PHE:O	2:D:92:VAL:HG23	1.89	0.72
2:M:88:PHE:O	2:M:92:VAL:HG23	1.90	0.72
2:I:88:PHE:O	2:I:92:VAL:HG23	1.89	0.72
2:L:88:PHE:O	2:L:92:VAL:HG23	1.89	0.72
1:B:596:SER:HB2	1:B:599:THR:OG1	1.90	0.71
2:J:88:PHE:O	2:J:92:VAL:HG23	1.90	0.71
1:B:199:VAL:HG12	1:B:200:VAL:N	2.04	0.71
1:B:701:GLN:HB2	1:B:826:TYR:HD2	1.55	0.71
2:D:38:ILE:HD12	2:D:65:LEU:HD23	1.70	0.71
1:B:731:GLN:HG2	2:D:62:ASP:HB2	1.70	0.71
1:A:661:GLN:HE21	1:B:348:LYS:NZ	1.87	0.71
1:B:875:ARG:HD3	1:B:878:ASN:ND2	2.05	0.71
1:A:568:VAL:HG12	1:A:569:GLN:N	2.01	0.71
1:B:548:ARG:NH1	1:B:878:ASN:N	2.38	0.71
1:B:255:TYR:H	2:N:69:THR:CG2	1.93	0.71
1:B:717:MET:HE1	1:B:830:PRO:HG2	1.71	0.71
2:O:6:SER:OG	2:O:128:ASN:HA	1.91	0.71
1:A:145:ARG:HB3	1:A:147:TYR:HE1	1.55	0.71
1:B:603:TYR:O	1:B:606:VAL:HG23	1.90	0.71
1:A:244:ILE:HD13	1:A:835:PHE:HE1	1.55	0.71
1:A:353:LEU:HD23	1:A:531:ARG:HB3	1.73	0.71
1:A:654:VAL:O	1:A:657:VAL:HG23	1.90	0.71
1:B:486:ASP:HB3	2:I:70:LEU:CD2	2.21	0.71
1:A:451:ASP:CB	1:A:452:PRO:HD2	2.07	0.71
1:A:449:ASN:ND2	1:A:455:PRO:HG3	2.05	0.71
1:B:503:ILE:O	1:B:505:GLN:N	2.23	0.71
1:B:523:VAL:C	1:B:525:TYR:H	1.93	0.71
1:B:433:ASN:ND2	1:B:446:HIS:HD2	1.89	0.71
2:I:76:ASN:HB2	2:M:76:ASN:HB2	1.73	0.71
1:B:526:LYS:O	1:B:530:GLN:HG2	1.91	0.71
1:A:473:HIS:HE1	2:G:24:TYR:HD2	1.36	0.71
1:B:436:ILE:HG13	1:B:437:TYR:H	1.54	0.70
2:I:76:ASN:HB2	2:M:76:ASN:CB	2.20	0.70
1:A:551:ALA:O	1:A:555:GLU:HB2	1.90	0.70
2:K:88:PHE:O	2:K:92:VAL:HG23	1.91	0.70
1:A:113:PRO:CG	1:A:609:ASN:HB3	2.20	0.70
1:A:594:ILE:HG23	1:A:595:PRO:HD2	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:88:PHE:O	2:G:92:VAL:HG23	1.89	0.70
1:A:647:LYS:CG	1:A:654:VAL:HG21	2.20	0.70
2:C:142:GLN:HE22	2:N:145:ARG:NH1	1.89	0.70
1:A:521:MET:HB3	1:A:522:PRO:CD	2.20	0.70
1:B:297:ARG:HG3	1:B:848:PHE:HD2	1.49	0.70
1:B:371:ASN:HB3	1:B:583:SER:HB2	1.72	0.70
2:H:88:PHE:O	2:H:92:VAL:HG23	1.91	0.70
1:B:446:HIS:O	1:B:447:TYR:CB	2.40	0.70
1:B:503:ILE:HD11	1:B:548:ARG:HG2	1.72	0.70
1:B:745:ALA:HB1	1:B:748:THR:CB	2.20	0.70
1:A:283:ASN:O	1:A:863:VAL:HG23	1.92	0.70
1:A:428:GLN:HG2	1:A:429:LEU:N	2.07	0.70
1:A:869:VAL:CG1	1:A:873:ASN:HA	2.21	0.70
1:B:97:THR:HA	1:B:320:THR:HG23	1.72	0.70
1:B:494:ASN:ND2	1:B:495:ASP:N	2.39	0.70
1:A:634:TYR:HB2	1:B:875:ARG:HH22	1.56	0.70
1:A:506:LEU:HD23	1:A:544:VAL:CA	2.16	0.70
1:B:654:VAL:O	1:B:657:VAL:HG23	1.92	0.70
1:A:244:ILE:HD13	1:A:835:PHE:CE1	2.27	0.70
1:B:491:GLN:NE2	1:B:564:ASN:HB3	2.06	0.70
1:A:469:ALA:HB1	2:G:71:LEU:CD2	2.21	0.70
1:B:306:ASP:O	1:B:308:LEU:N	2.22	0.70
2:C:167:ASN:HD22	2:C:178:GLY:HA2	1.57	0.70
2:I:167:ASN:HD22	2:I:178:GLY:HA2	1.57	0.70
1:A:615:ASN:O	1:A:618:ILE:HB	1.91	0.70
1:B:721:VAL:HG12	1:B:722:ASN:H	1.57	0.70
1:A:136:ALA:O	1:A:137:ASN:CB	2.40	0.70
2:E:88:PHE:O	2:E:92:VAL:HG23	1.91	0.70
1:B:772:ILE:HG23	1:B:773:SER:N	2.05	0.70
1:B:805:ASP:O	1:B:807:ASN:N	2.25	0.70
1:B:166:PHE:CE2	1:B:689:MET:HG3	2.27	0.70
2:E:167:ASN:HD22	2:E:178:GLY:HA2	1.57	0.70
1:A:492:VAL:HG13	1:A:558:MET:SD	2.32	0.69
2:G:167:ASN:HD22	2:G:178:GLY:HA2	1.57	0.69
1:B:349:MET:HG3	1:B:353:LEU:HD12	1.73	0.69
1:A:298:TYR:CD1	1:A:299:ILE:O	2.45	0.69
1:B:721:VAL:HG12	1:B:722:ASN:N	2.08	0.69
2:K:167:ASN:HD22	2:K:178:GLY:HA2	1.57	0.69
2:D:167:ASN:HD22	2:D:178:GLY:HA2	1.57	0.69
2:L:167:ASN:HD22	2:L:178:GLY:HA2	1.57	0.69
1:B:743:ASP:CG	1:B:745:ALA:H	1.94	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:770:SER:HB2	1:B:773:SER:OG	1.92	0.69
1:B:400:ASN:ND2	1:B:403:SER:HB2	2.07	0.69
2:M:167:ASN:HD22	2:M:178:GLY:HA2	1.57	0.69
2:N:76:ASN:HB2	2:O:76:ASN:H	1.57	0.69
1:B:590:ASN:H	1:B:590:ASN:ND2	1.90	0.69
1:B:418:MET:O	1:B:419:PHE:HD1	1.75	0.69
1:B:484:VAL:CG2	2:I:69:THR:HG23	2.20	0.69
1:A:807:ASN:O	1:A:809:PHE:N	2.25	0.69
1:A:244:ILE:O	1:A:245:LEU:HD23	1.93	0.69
1:A:194:ARG:NH1	1:A:229:ARG:HG2	2.06	0.69
1:A:757:VAL:HG12	1:A:758:ALA:N	2.07	0.69
2:N:167:ASN:HD22	2:N:178:GLY:HA2	1.57	0.69
1:B:499:ASP:O	1:B:500:GLY:C	2.31	0.69
1:A:306:ASP:C	1:A:308:LEU:H	1.97	0.69
1:B:783:PHE:N	1:B:783:PHE:CD1	2.60	0.69
1:A:124:ARG:HD2	1:A:203:GLU:OE1	1.92	0.69
1:B:782:VAL:HG11	1:B:796:LYS:O	1.93	0.69
2:H:167:ASN:HD22	2:H:178:GLY:HA2	1.57	0.69
2:O:167:ASN:HD22	2:O:178:GLY:HA2	1.57	0.69
1:A:674:VAL:HG12	1:A:675:GLU:H	1.58	0.69
2:G:67:GLY:O	2:G:68:THR:HG23	1.93	0.69
1:B:717:MET:HE3	1:B:718:TYR:CE1	2.27	0.69
1:A:781:THR:O	1:A:783:PHE:N	2.26	0.69
2:N:88:PHE:O	2:N:92:VAL:HG23	1.91	0.69
2:J:54:LEU:HD12	2:J:55:PRO:HD2	1.75	0.69
2:D:54:LEU:HD12	2:D:55:PRO:HD2	1.75	0.69
1:A:246:HIS:O	1:A:249:ASP:N	2.25	0.68
1:A:631:LEU:O	1:A:633:LEU:HD12	1.93	0.68
1:A:486:ASP:HB2	1:A:490:ASN:HD22	1.57	0.68
2:J:167:ASN:HD22	2:J:178:GLY:HA2	1.57	0.68
2:J:24:TYR:O	2:J:27:VAL:HG22	1.94	0.68
2:M:67:GLY:O	2:M:68:THR:HG23	1.93	0.68
2:D:76:ASN:N	2:L:76:ASN:HB2	2.07	0.68
1:A:694:ARG:HD2	1:A:828:GLN:HG2	1.75	0.68
1:A:492:VAL:HG13	1:A:558:MET:CE	2.23	0.68
1:A:596:SER:HB2	1:A:599:THR:OG1	1.92	0.68
1:B:282:VAL:O	1:B:284:TYR:N	2.26	0.68
1:A:458:ILE:O	1:A:462:GLN:HG3	1.93	0.68
1:A:783:PHE:H	1:A:783:PHE:HD1	1.40	0.68
1:B:393:SER:O	1:B:394:LEU:HD23	1.92	0.68
1:B:492:VAL:O	1:B:493:LEU:C	2.31	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:466:PHE:HZ	2:I:122:ILE:HD11	1.57	0.68
1:A:452:PRO:CG	1:B:521:MET:O	2.39	0.68
2:F:167:ASN:HD22	2:F:178:GLY:HA2	1.57	0.68
1:A:362:SER:HA	1:A:365:GLN:NE2	2.08	0.68
1:B:811:LEU:HA	1:B:814:ASN:HD22	1.56	0.68
2:J:106:ARG:HD3	2:J:106:ARG:H	1.59	0.68
2:D:67:GLY:O	2:D:68:THR:HG23	1.93	0.68
2:J:67:GLY:O	2:J:68:THR:HG23	1.93	0.68
1:B:368:THR:O	1:B:369:GLY:O	2.12	0.68
2:K:38:ILE:HG22	2:K:42:ASN:ND2	2.09	0.68
1:B:683:ASN:HB3	2:N:32:GLN:NE2	2.09	0.68
2:M:106:ARG:H	2:M:106:ARG:HD3	1.59	0.68
1:B:869:VAL:HG13	1:B:873:ASN:HA	1.74	0.68
1:A:540:LEU:O	1:A:540:LEU:HG	1.92	0.68
1:B:489:LEU:CG	2:M:69:THR:HG23	2.24	0.68
2:H:38:ILE:HG22	2:H:42:ASN:ND2	2.09	0.68
1:B:481:ARG:CG	2:I:65:LEU:CD1	2.45	0.68
1:A:666:ARG:CG	1:A:667:ASP:N	2.57	0.68
1:B:491:GLN:HE21	1:B:565:MET:N	1.83	0.68
2:M:24:TYR:O	2:M:27:VAL:HG22	1.94	0.68
1:B:214:ASP:OD1	1:B:216:GLU:HG2	1.94	0.68
2:O:147:ARG:HG2	2:O:148:THR:N	2.09	0.68
1:B:463:ILE:N	2:H:64:GLY:HA3	2.09	0.67
1:B:521:MET:HB2	1:B:522:PRO:HD2	1.74	0.67
1:B:510:LEU:HD11	1:B:537:SER:CB	2.24	0.67
1:B:486:ASP:CB	2:I:70:LEU:HD21	2.24	0.67
1:A:510:LEU:HB2	1:A:540:LEU:HD13	1.76	0.67
1:B:642:VAL:O	1:B:646:LEU:HG	1.94	0.67
1:A:436:ILE:HG13	1:A:437:TYR:N	2.08	0.67
2:M:54:LEU:HD12	2:M:55:PRO:HD2	1.75	0.67
1:A:711:GLN:O	1:A:712:LEU:HD23	1.93	0.67
1:B:370:ILE:O	1:B:373:GLN:HB3	1.94	0.67
1:B:703:VAL:HG12	1:B:704:ILE:N	2.10	0.67
2:G:24:TYR:O	2:G:27:VAL:HG22	1.94	0.67
1:B:230:GLN:HA	1:B:242:PRO:HD3	1.75	0.67
1:A:588:ILE:CG2	1:A:589:GLY:N	2.57	0.67
1:B:703:VAL:HG12	1:B:704:ILE:H	1.59	0.67
2:G:54:LEU:HD12	2:G:55:PRO:HD2	1.75	0.67
1:A:302:ASN:C	1:A:303:LEU:HD23	2.15	0.67
1:A:839:MET:HE3	1:A:840:HIS:CA	2.24	0.67
1:B:445:MET:O	1:B:447:TYR:N	2.26	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:459:ALA:O	1:B:463:ILE:HG13	1.94	0.67
1:B:374:ALA:HB1	1:B:580:SER:CA	2.25	0.67
1:A:570:THR:HG22	1:A:571:LEU:N	2.08	0.67
1:B:743:ASP:HB2	1:B:790:ARG:NH1	2.10	0.67
1:B:666:ARG:CG	1:B:667:ASP:N	2.58	0.67
1:A:282:VAL:O	1:A:284:TYR:N	2.28	0.67
1:B:311:HIS:H	1:B:311:HIS:CD2	2.13	0.67
1:B:518:PHE:CD2	2:H:69:THR:HG23	1.99	0.67
1:A:246:HIS:HB3	1:A:249:ASP:OD2	1.94	0.67
2:N:38:ILE:HG22	2:N:42:ASN:ND2	2.09	0.67
1:B:855:LEU:O	1:B:857:PHE:N	2.28	0.67
2:J:106:ARG:HG2	2:J:107:ASN:H	1.59	0.67
1:A:605:ASN:O	1:A:608:VAL:HB	1.95	0.66
1:A:245:LEU:HB3	1:A:249:ASP:HB2	1.77	0.66
1:B:293:PRO:C	1:B:295:THR:H	1.98	0.66
1:B:371:ASN:C	1:B:373:GLN:N	2.45	0.66
1:B:156:PRO:CB	1:B:161:ASP:HB3	2.26	0.66
2:E:38:ILE:HG22	2:E:42:ASN:ND2	2.09	0.66
2:M:106:ARG:HG2	2:M:107:ASN:H	1.59	0.66
2:N:93:ASP:O	2:N:97:MET:HG3	1.95	0.66
1:B:702:GLY:HA3	1:B:759:LEU:O	1.95	0.66
2:K:93:ASP:O	2:K:97:MET:HG3	1.95	0.66
1:B:486:ASP:CB	2:I:70:LEU:HD23	2.25	0.66
1:A:577:GLN:O	1:A:581:VAL:HG23	1.95	0.66
1:B:712:LEU:HD12	1:B:722:ASN:HB3	1.77	0.66
2:G:106:ARG:H	2:G:106:ARG:HD3	1.59	0.66
1:B:480:PHE:CE2	1:B:493:LEU:HB2	2.31	0.66
1:B:549:LEU:HD13	1:B:877:MET:HE1	1.77	0.66
1:B:803:ASN:H	1:B:807:ASN:HD21	1.43	0.66
2:D:24:TYR:O	2:D:27:VAL:HG22	1.94	0.66
2:J:6:SER:OG	2:J:128:ASN:HA	1.96	0.66
2:G:6:SER:OG	2:G:128:ASN:HA	1.96	0.66
1:B:869:VAL:N	1:B:876:ILE:HG23	2.09	0.66
1:A:246:HIS:CD2	1:A:248:ILE:HB	2.30	0.66
1:A:658:PRO:HB2	1:A:660:ASP:OD1	1.96	0.66
1:B:431:ILE:HA	1:B:435:ILE:HD12	1.76	0.66
1:A:537:SER:O	1:A:540:LEU:HB3	1.96	0.66
1:B:180:TYR:O	1:B:181:LEU:HG	1.95	0.66
1:B:755:GLN:O	1:B:757:VAL:HG23	1.95	0.66
1:A:178:PRO:HD2	1:A:256:PHE:CE2	2.30	0.66
1:A:474:PHE:O	1:A:478:ASN:HB2	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:255:TYR:N	2:N:69:THR:HG21	1.86	0.66
1:B:786:ILE:HG23	1:B:792:VAL:HG12	1.77	0.66
1:A:443:GLN:NE2	1:A:521:MET:HB3	2.11	0.66
1:B:218:GLU:HG3	1:B:221:VAL:CG2	2.25	0.66
2:G:106:ARG:HG2	2:G:107:ASN:H	1.59	0.66
2:G:11:LEU:O	2:G:14:ALA:HB3	1.96	0.66
2:H:93:ASP:O	2:H:97:MET:HG3	1.95	0.66
2:D:106:ARG:H	2:D:106:ARG:HD3	1.59	0.66
1:A:734:ASN:HB3	1:A:737:GLU:HG2	1.77	0.66
2:M:6:SER:OG	2:M:128:ASN:HA	1.96	0.66
1:B:192:ASN:O	1:B:193:SER:HB3	1.94	0.66
1:A:416:ASN:HB3	1:A:424:LEU:CD2	2.23	0.66
1:B:594:ILE:C	1:B:594:ILE:CD1	2.64	0.66
2:F:93:ASP:O	2:F:97:MET:HG3	1.96	0.66
1:B:501:HIS:HD2	1:B:501:HIS:O	1.79	0.66
1:B:630:ARG:HD2	2:L:71:LEU:HB2	1.73	0.66
1:B:764:PRO:O	1:B:765:PHE:HB2	1.95	0.66
1:B:672:LEU:HB3	1:B:673:PRO:HD2	1.77	0.66
1:B:319:ASP:OD2	1:B:572:THR:HG23	1.96	0.66
2:D:106:ARG:HG2	2:D:107:ASN:H	1.59	0.66
2:O:67:GLY:O	2:O:69:THR:N	2.29	0.66
1:A:493:LEU:HD11	1:A:566:GLN:O	1.96	0.66
1:A:503:ILE:C	1:A:505:GLN:N	2.50	0.66
1:B:779:ASP:HA	1:B:798:ILE:CD1	2.21	0.66
1:A:563:MET:HA	1:A:563:MET:CE	2.18	0.65
1:A:503:ILE:HD13	1:A:547:THR:HB	1.77	0.65
2:I:93:ASP:O	2:I:97:MET:HG3	1.96	0.65
2:D:11:LEU:O	2:D:14:ALA:HB3	1.96	0.65
1:A:646:LEU:O	1:A:649:LEU:HD12	1.96	0.65
1:A:428:GLN:CB	1:A:456:PHE:CD1	2.79	0.65
1:B:371:ASN:HA	1:B:374:ALA:HB3	1.79	0.65
1:B:374:ALA:HB1	1:B:580:SER:HB3	1.77	0.65
1:A:219:GLY:O	1:A:221:VAL:N	2.29	0.65
2:L:11:LEU:O	2:L:14:ALA:HB3	1.97	0.65
2:D:93:ASP:O	2:D:97:MET:HG3	1.96	0.65
2:I:11:LEU:O	2:I:14:ALA:HB3	1.97	0.65
1:A:390:ARG:HD2	1:A:570:THR:HG21	1.78	0.65
1:B:435:ILE:HG22	1:B:436:ILE:N	2.05	0.65
1:A:469:ALA:O	2:G:70:LEU:CG	2.44	0.65
1:B:666:ARG:HG3	1:B:667:ASP:N	2.11	0.65
1:B:587:LEU:HG	1:B:587:LEU:O	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:11:LEU:O	2:C:14:ALA:HB3	1.97	0.65
2:E:93:ASP:O	2:E:97:MET:HG3	1.95	0.65
1:B:404:LEU:HD21	1:B:430:ALA:HB1	1.77	0.65
2:G:123:LYS:HG3	2:G:124:PHE:CE1	2.32	0.65
1:B:486:ASP:HB3	2:I:70:LEU:HD23	1.78	0.65
1:B:869:VAL:HG11	1:B:873:ASN:HA	1.77	0.65
1:B:605:ASN:O	1:B:608:VAL:HB	1.97	0.65
2:O:11:LEU:O	2:O:14:ALA:HB3	1.96	0.65
1:B:503:ILE:HD13	1:B:544:VAL:HG12	1.79	0.65
2:G:93:ASP:O	2:G:97:MET:HG3	1.96	0.65
1:B:501:HIS:CD2	1:B:501:HIS:O	2.49	0.65
1:A:629:ASN:C	1:A:631:LEU:H	2.00	0.65
2:J:11:LEU:O	2:J:14:ALA:HB3	1.96	0.65
2:J:123:LYS:HG3	2:J:124:PHE:CE1	2.32	0.65
1:B:498:ARG:HH12	2:J:25:SER:CA	2.07	0.65
1:B:371:ASN:C	1:B:373:GLN:H	1.98	0.65
2:M:11:LEU:O	2:M:14:ALA:HB3	1.96	0.65
2:I:4:LEU:HA	2:I:7:LEU:HD12	1.79	0.65
2:J:93:ASP:O	2:J:97:MET:HG3	1.96	0.65
2:E:11:LEU:O	2:E:14:ALA:HB3	1.97	0.65
2:E:54:LEU:HD12	2:E:55:PRO:HD2	1.79	0.65
1:B:355:LEU:HG	1:B:356:GLU:N	2.11	0.65
1:B:734:ASN:HB3	1:B:737:GLU:HB2	1.76	0.65
2:N:54:LEU:HD12	2:N:55:PRO:HD2	1.79	0.65
1:B:465:ASN:ND2	1:B:468:VAL:HG23	2.11	0.65
1:B:781:THR:O	1:B:783:PHE:N	2.29	0.65
1:A:722:ASN:HB3	1:A:824:LYS:HA	1.79	0.65
1:B:99:GLU:HB3	1:B:100:PRO:CD	2.25	0.65
1:B:805:ASP:C	1:B:807:ASN:H	1.98	0.65
2:J:4:LEU:HA	2:J:7:LEU:HD12	1.79	0.65
2:G:4:LEU:HA	2:G:7:LEU:HD12	1.79	0.65
2:K:11:LEU:O	2:K:14:ALA:HB3	1.97	0.65
1:B:787:VAL:O	1:B:788:LYS:C	2.35	0.65
1:B:712:LEU:CD1	1:B:722:ASN:HB3	2.27	0.65
2:M:93:ASP:O	2:M:97:MET:HG3	1.96	0.65
2:K:54:LEU:HD12	2:K:55:PRO:HD2	1.79	0.65
2:L:93:ASP:O	2:L:97:MET:HG3	1.96	0.65
1:A:271:PHE:HA	1:A:274:ILE:HD12	1.78	0.65
1:B:182:LEU:HD22	1:B:846:LEU:HA	1.78	0.65
2:D:6:SER:OG	2:D:128:ASN:HA	1.96	0.64
2:M:123:LYS:HG3	2:M:124:PHE:CE1	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:523:VAL:O	1:B:525:TYR:N	2.30	0.64
1:A:305:GLN:O	1:A:307:ARG:N	2.29	0.64
2:C:4:LEU:HA	2:C:7:LEU:HD12	1.79	0.64
1:B:504:ASN:O	1:B:507:MET:N	2.29	0.64
1:B:485:ILE:HD12	2:I:76:ASN:ND2	2.13	0.64
1:B:701:GLN:O	1:B:826:TYR:HB3	1.98	0.64
1:B:770:SER:HB3	1:B:772:ILE:HG22	1.77	0.64
1:B:486:ASP:O	1:B:488:VAL:N	2.30	0.64
1:B:477:ASN:CG	2:I:39:ILE:CG2	2.66	0.64
1:A:717:MET:HG3	1:A:718:TYR:HD1	1.61	0.64
2:C:93:ASP:O	2:C:97:MET:HG3	1.96	0.64
1:A:480:PHE:CD2	1:A:493:LEU:HB3	2.32	0.64
1:B:745:ALA:O	1:B:746:GLN:C	2.36	0.64
1:A:839:MET:HE3	1:A:840:HIS:N	2.13	0.64
1:B:825:VAL:CG1	1:B:826:TYR:N	2.61	0.64
1:B:663:TYR:O	1:B:666:ARG:HG2	1.98	0.64
1:B:111:ILE:C	1:B:113:PRO:HD3	2.18	0.64
2:D:123:LYS:HG3	2:D:124:PHE:CE1	2.32	0.64
2:H:11:LEU:O	2:H:14:ALA:HB3	1.97	0.64
2:N:11:LEU:O	2:N:14:ALA:HB3	1.97	0.64
1:B:432:VAL:CA	1:B:436:ILE:HD11	2.05	0.64
2:I:76:ASN:HB2	2:M:74:ASP:OD2	1.97	0.64
1:B:700:ALA:CB	1:B:827:LYS:HB2	2.28	0.64
1:A:193:SER:HB2	1:A:226:ALA:O	1.97	0.64
2:F:11:LEU:O	2:F:14:ALA:HB3	1.97	0.64
1:B:510:LEU:CD1	1:B:537:SER:HA	2.28	0.64
1:A:431:ILE:HA	1:A:435:ILE:HD12	1.79	0.64
1:B:570:THR:HG22	1:B:572:THR:H	1.62	0.64
2:M:4:LEU:HA	2:M:7:LEU:HD12	1.79	0.64
1:A:663:TYR:O	1:A:666:ARG:HG2	1.98	0.64
1:B:200:VAL:HG23	1:B:242:PRO:O	1.98	0.64
1:A:286:LEU:HD23	1:A:286:LEU:N	2.12	0.64
1:A:160:TYR:CE1	1:A:633:LEU:HA	2.32	0.64
2:F:4:LEU:HA	2:F:7:LEU:HD12	1.79	0.64
1:B:418:MET:HB3	1:B:567:HIS:NE2	2.13	0.64
1:B:862:THR:HG22	1:B:863:VAL:O	1.98	0.64
1:B:868:ALA:O	1:B:869:VAL:HG23	1.98	0.64
1:A:539:ARG:NH2	1:A:588:ILE:O	2.31	0.64
1:B:346:ILE:O	1:B:349:MET:HB3	1.96	0.64
1:A:660:ASP:O	1:A:662:MET:N	2.30	0.64
1:B:166:PHE:CE2	1:B:689:MET:HA	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:727:LEU:O	1:A:727:LEU:HD12	1.98	0.63
1:B:854:LEU:O	1:B:856:ALA:N	2.32	0.63
2:H:23:LEU:HD23	2:H:24:TYR:N	2.13	0.63
1:B:169:LEU:O	1:B:173:VAL:HG23	1.98	0.63
1:A:554:TYR:CZ	1:A:558:MET:HE2	2.33	0.63
1:B:245:LEU:HD12	1:B:250:TYR:HA	1.80	0.63
1:A:362:SER:O	1:A:366:PHE:HE1	1.80	0.63
1:A:520:THR:O	1:A:521:MET:HE3	1.97	0.63
2:E:23:LEU:HD23	2:E:24:TYR:N	2.13	0.63
1:B:349:MET:O	1:B:353:LEU:HB2	1.98	0.63
2:L:4:LEU:HA	2:L:7:LEU:HD12	1.79	0.63
2:K:4:LEU:HA	2:K:7:LEU:HD12	1.80	0.63
2:O:93:ASP:O	2:O:97:MET:HG3	1.98	0.63
2:H:116:LEU:HD12	2:H:119:LEU:HB2	1.80	0.63
1:B:442:MET:CE	1:B:463:ILE:HG12	2.27	0.63
2:D:75:ALA:HB3	2:L:76:ASN:OD1	1.98	0.63
2:K:23:LEU:HD23	2:K:24:TYR:N	2.13	0.63
2:N:4:LEU:HA	2:N:7:LEU:HD12	1.80	0.63
1:B:178:PRO:HD2	1:B:256:PHE:CD2	2.33	0.63
1:A:480:PHE:HD2	1:A:493:LEU:HB3	1.63	0.63
1:B:428:GLN:CG	1:B:429:LEU:N	2.61	0.63
1:B:484:VAL:HG21	1:B:494:ASN:HB2	1.79	0.63
1:A:133:ILE:O	1:A:134:TYR:HD2	1.82	0.63
1:A:366:PHE:N	1:A:366:PHE:CD1	2.64	0.63
1:A:270:ILE:HG23	1:A:854:LEU:CD2	2.28	0.63
1:B:315:GLU:HB3	1:B:571:LEU:HD11	1.80	0.63
1:A:306:ASP:O	1:A:308:LEU:N	2.32	0.63
1:B:497:ILE:HG12	2:I:24:TYR:OH	1.98	0.63
2:D:4:LEU:HA	2:D:7:LEU:HD12	1.79	0.63
2:N:116:LEU:HD12	2:N:119:LEU:HB2	1.80	0.63
1:A:771:VAL:HG13	1:A:772:ILE:N	2.14	0.63
1:A:771:VAL:O	1:A:772:ILE:C	2.37	0.63
2:K:142:GLN:O	2:L:145:ARG:HD2	1.98	0.63
1:A:601:PHE:HD1	1:A:601:PHE:H	1.47	0.63
2:N:23:LEU:HD23	2:N:24:TYR:N	2.13	0.63
1:B:601:PHE:H	1:B:601:PHE:HD1	1.47	0.63
2:E:116:LEU:HD12	2:E:119:LEU:HB2	1.80	0.63
1:A:246:HIS:CD2	1:A:248:ILE:H	2.17	0.63
1:B:635:GLN:NE2	1:B:740:ARG:NH2	2.46	0.63
2:M:346:VAL:HG21	2:M:385:VAL:HG13	1.81	0.63
2:H:54:LEU:HD12	2:H:55:PRO:HD2	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:422:GLU:O	1:B:425:VAL:N	2.32	0.63
1:A:361:GLN:HB2	1:A:528:SER:OG	1.98	0.63
1:B:374:ALA:HB1	1:B:580:SER:CB	2.29	0.63
2:O:346:VAL:HG21	2:O:385:VAL:HG13	1.81	0.63
2:M:116:LEU:HD12	2:M:119:LEU:HB2	1.81	0.63
1:B:408:MET:HB3	1:B:471:TRP:CH2	2.34	0.63
1:B:404:LEU:HD21	1:B:430:ALA:CB	2.28	0.63
1:B:463:ILE:HD12	1:B:472:LEU:CD1	2.29	0.63
1:B:518:PHE:CB	1:B:519:PRO:CD	2.75	0.63
1:A:774:LEU:HD11	1:A:820:THR:O	1.99	0.63
1:B:260:GLN:O	1:B:262:VAL:HG23	1.99	0.63
1:B:638:MET:HE1	1:B:666:ARG:HH12	1.64	0.63
1:B:119:GLN:CG	1:B:181:LEU:HD21	2.27	0.63
1:A:275:PRO:HB2	1:A:278:ILE:HG13	1.81	0.63
1:B:239:VAL:HG23	1:B:844:SER:O	1.99	0.63
2:J:116:LEU:HD12	2:J:119:LEU:HB2	1.81	0.63
1:A:597:PRO:HB3	1:A:860:ALA:HB3	1.80	0.63
1:A:117:LYS:O	1:A:179:ASP:HB2	1.98	0.63
1:B:763:LEU:O	1:B:764:PRO:O	2.17	0.62
1:B:548:ARG:HH11	1:B:878:ASN:H	1.46	0.62
1:A:401:TYR:HA	1:A:404:LEU:CD1	2.28	0.62
1:A:854:LEU:O	1:A:856:ALA:N	2.32	0.62
2:H:4:LEU:HA	2:H:7:LEU:HD12	1.80	0.62
2:K:116:LEU:HD12	2:K:119:LEU:HB2	1.80	0.62
1:A:415:PRO:HD2	1:A:480:PHE:HE1	1.64	0.62
1:B:460:GLU:O	1:B:462:GLN:N	2.32	0.62
1:B:523:VAL:C	1:B:525:TYR:N	2.53	0.62
1:A:506:LEU:HD21	1:A:543:LEU:C	2.20	0.62
1:B:464:GLN:NE2	2:H:64:GLY:O	2.32	0.62
1:B:875:ARG:HB3	1:B:878:ASN:HD22	1.64	0.62
1:A:405:ILE:HG21	1:A:536:LEU:HG	1.81	0.62
1:A:353:LEU:HD13	1:A:362:SER:CB	2.30	0.62
1:A:403:SER:HA	1:A:582:THR:OG1	1.98	0.62
2:D:116:LEU:HD12	2:D:119:LEU:HB2	1.81	0.62
2:I:54:LEU:HD12	2:I:55:PRO:HD2	1.81	0.62
1:A:420:ILE:HD11	1:A:422:GLU:CG	2.28	0.62
1:B:477:ASN:CG	2:I:39:ILE:HG23	2.19	0.62
2:J:38:ILE:HG22	2:J:42:ASN:ND2	2.15	0.62
1:B:309:ASN:HA	1:B:311:HIS:CD2	2.34	0.62
1:B:176:GLU:O	1:B:178:PRO:HD3	2.00	0.62
1:A:625:ILE:O	1:A:628:ALA:HB3	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:346:VAL:HG21	2:C:385:VAL:HG13	1.81	0.62
2:D:346:VAL:HG21	2:D:385:VAL:HG13	1.81	0.62
1:A:314:PHE:O	1:A:316:SER:N	2.32	0.62
2:G:38:ILE:HD12	2:G:65:LEU:CD2	2.30	0.62
1:B:489:LEU:CD1	2:M:69:THR:HG23	2.30	0.62
2:D:27:VAL:O	2:D:31:ILE:HG12	1.99	0.62
1:A:556:THR:O	1:A:557:LEU:C	2.38	0.62
1:A:660:ASP:HB3	1:B:539:ARG:HH11	1.64	0.62
1:A:510:LEU:CB	1:A:540:LEU:HD13	2.30	0.62
1:A:526:LYS:O	1:A:530:GLN:HG2	2.00	0.62
2:D:38:ILE:HD12	2:D:65:LEU:CD2	2.30	0.62
2:E:5:TYR:CE2	2:E:131:ASN:HA	2.35	0.62
1:A:660:ASP:O	1:A:661:GLN:C	2.38	0.62
1:B:305:GLN:NE2	1:B:564:ASN:ND2	2.47	0.62
1:B:558:MET:O	1:B:561:VAL:HG23	1.99	0.62
1:A:764:PRO:O	1:A:797:PRO:HD2	2.00	0.62
1:A:501:HIS:C	1:A:503:ILE:HG13	2.20	0.62
1:A:405:ILE:CG2	1:A:536:LEU:HG	2.30	0.62
2:N:5:TYR:CE2	2:N:131:ASN:HA	2.35	0.62
2:J:130:ASP:HA	2:K:17:LYS:HG2	1.82	0.62
1:A:257:LEU:HD13	1:A:843:THR:O	2.00	0.62
2:I:346:VAL:HG21	2:I:385:VAL:HG13	1.81	0.62
1:A:304:LEU:N	1:A:615:ASN:HD21	1.98	0.62
2:L:346:VAL:HG21	2:L:385:VAL:HG13	1.81	0.62
2:N:346:VAL:HG21	2:N:385:VAL:HG13	1.81	0.62
1:A:217:THR:O	1:A:217:THR:HG22	2.00	0.62
2:G:27:VAL:O	2:G:31:ILE:HG12	1.99	0.62
1:B:378:CYS:HB2	1:B:580:SER:HB2	1.80	0.62
2:M:27:VAL:O	2:M:31:ILE:HG12	1.99	0.62
2:D:35:ASN:OD1	2:D:65:LEU:HD22	2.00	0.62
2:I:116:LEU:HD12	2:I:119:LEU:HB2	1.82	0.62
2:F:116:LEU:HD12	2:F:119:LEU:HB2	1.82	0.62
1:A:642:VAL:O	1:A:646:LEU:HG	1.99	0.61
1:B:534:LEU:HA	1:B:537:SER:OG	1.99	0.61
1:A:545:ASP:O	1:A:548:ARG:N	2.33	0.61
1:A:527:ARG:HH11	1:A:527:ARG:HG3	1.64	0.61
1:B:712:LEU:HB3	1:B:819:PRO:HB2	1.81	0.61
2:C:24:TYR:O	2:C:27:VAL:HG22	2.00	0.61
1:B:654:VAL:O	1:B:656:ARG:N	2.33	0.61
1:B:833:PHE:CZ	1:B:835:PHE:HA	2.35	0.61
2:G:116:LEU:HD12	2:G:119:LEU:HB2	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:502:VAL:O	1:B:504:ASN:N	2.28	0.61
2:K:5:TYR:CE2	2:K:131:ASN:HA	2.35	0.61
2:F:346:VAL:HG21	2:F:385:VAL:HG13	1.81	0.61
1:B:231:ARG:HB3	1:B:240:ASN:HB2	1.82	0.61
2:L:54:LEU:HD12	2:L:55:PRO:HD2	1.81	0.61
1:B:730:PHE:N	1:B:730:PHE:CD1	2.68	0.61
1:B:117:LYS:HB2	1:B:179:ASP:OD2	1.99	0.61
1:B:530:GLN:HA	1:B:533:ILE:HD12	1.82	0.61
1:A:529:ILE:O	1:A:533:ILE:HG13	2.01	0.61
1:B:735:LEU:HD21	1:B:759:LEU:HB3	1.80	0.61
1:B:94:THR:O	1:B:316:SER:HB3	2.01	0.61
2:M:35:ASN:OD1	2:M:65:LEU:HD22	2.00	0.61
1:B:183:LEU:HG	1:B:844:SER:CB	2.30	0.61
1:B:115:GLN:OE1	1:B:117:LYS:HE2	2.00	0.61
2:G:346:VAL:HG21	2:G:385:VAL:HG13	1.81	0.61
1:A:570:THR:HG22	1:A:572:THR:H	1.64	0.61
1:B:401:TYR:HA	1:B:404:LEU:CD1	2.30	0.61
2:F:24:TYR:O	2:F:27:VAL:HG22	2.00	0.61
1:A:817:TRP:O	1:A:818:VAL:HG23	2.00	0.61
1:B:371:ASN:O	1:B:373:GLN:N	2.33	0.61
2:M:38:ILE:HD12	2:M:65:LEU:CD2	2.30	0.61
2:K:346:VAL:HG21	2:K:385:VAL:HG13	1.81	0.61
2:F:54:LEU:HD12	2:F:55:PRO:HD2	1.81	0.61
1:B:491:GLN:CD	1:B:564:ASN:HB3	2.20	0.61
2:J:27:VAL:O	2:J:31:ILE:HG12	1.99	0.61
2:J:35:ASN:OD1	2:J:65:LEU:HD22	2.00	0.61
1:B:743:ASP:C	1:B:744:TYR:CD2	2.59	0.61
1:B:635:GLN:NE2	1:B:740:ARG:HH22	1.99	0.61
1:A:400:ASN:CG	1:A:403:SER:HB2	2.20	0.61
2:O:4:LEU:HA	2:O:7:LEU:HD12	1.81	0.61
2:L:116:LEU:HD12	2:L:119:LEU:HB2	1.82	0.61
2:H:346:VAL:HG21	2:H:385:VAL:HG13	1.81	0.61
1:A:650:HIS:O	1:A:651:ILE:HB	1.99	0.61
1:B:200:VAL:HG21	1:B:243:SER:CB	2.13	0.61
1:B:684:LEU:HD13	2:N:68:THR:CG2	2.29	0.61
2:E:4:LEU:HA	2:E:7:LEU:HD12	1.80	0.61
2:E:346:VAL:HG21	2:E:385:VAL:HG13	1.81	0.61
2:G:130:ASP:HA	2:H:17:LYS:HG2	1.82	0.61
1:B:323:THR:O	1:B:326:TYR:HB3	2.00	0.61
2:J:38:ILE:HD12	2:J:65:LEU:CD2	2.30	0.61
2:G:38:ILE:HG22	2:G:42:ASN:ND2	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:500:GLY:HA3	1:B:871:PHE:HZ	1.63	0.61
1:B:470:ASN:CB	2:I:126:ARG:HH22	2.13	0.61
2:G:35:ASN:OD1	2:G:65:LEU:HD22	2.00	0.61
1:B:785:GLN:O	1:B:786:ILE:C	2.38	0.61
1:A:803:ASN:O	1:A:805:ASP:N	2.33	0.61
1:B:306:ASP:C	1:B:308:LEU:N	2.53	0.61
2:G:144:ARG:O	2:G:145:ARG:HB2	2.01	0.61
2:H:5:TYR:CE2	2:H:131:ASN:HA	2.35	0.61
2:D:130:ASP:HA	2:E:17:LYS:HG2	1.82	0.61
1:A:558:MET:O	1:A:561:VAL:HG23	2.01	0.61
1:B:404:LEU:O	1:B:407:GLY:N	2.33	0.61
1:B:122:LEU:O	1:B:253:ASN:OD1	2.19	0.61
1:A:285:ILE:CD1	1:A:861:ASP:HB2	2.25	0.61
1:A:729:GLY:C	1:A:730:PHE:HD1	2.04	0.61
1:B:259:HIS:CD2	1:B:677:ARG:HG3	2.35	0.61
1:A:323:THR:O	1:A:326:TYR:HB3	2.01	0.61
1:B:393:SER:CB	1:B:573:THR:HG21	2.30	0.61
2:D:38:ILE:HG22	2:D:42:ASN:ND2	2.15	0.61
2:M:38:ILE:HG22	2:M:42:ASN:ND2	2.15	0.61
1:A:597:PRO:HB3	1:A:860:ALA:CB	2.31	0.61
2:O:150:PHE:CD1	2:O:150:PHE:N	2.69	0.61
2:D:144:ARG:O	2:D:145:ARG:HB2	2.01	0.61
2:M:130:ASP:HA	2:N:17:LYS:HG2	1.82	0.61
1:A:663:TYR:O	1:A:666:ARG:N	2.33	0.60
1:B:492:VAL:CG1	1:B:558:MET:SD	2.89	0.60
1:B:527:ARG:NH1	1:B:531:ARG:HH21	1.99	0.60
1:B:544:VAL:HG12	1:B:548:ARG:HE	1.66	0.60
1:B:470:ASN:CG	2:I:126:ARG:NH2	2.30	0.60
2:L:24:TYR:O	2:L:27:VAL:HG22	2.00	0.60
1:B:272:ASN:C	1:B:274:ILE:H	2.02	0.60
1:A:473:HIS:CD2	2:G:71:LEU:H	2.18	0.60
1:B:199:VAL:CG1	1:B:200:VAL:N	2.64	0.60
1:A:498:ARG:HB3	1:A:505:GLN:NE2	2.16	0.60
1:A:512:GLN:O	1:A:516:GLN:CD	2.39	0.60
1:B:684:LEU:CD1	2:N:68:THR:HG21	2.30	0.60
2:G:68:THR:O	2:G:69:THR:C	2.40	0.60
1:A:784:ALA:O	1:A:787:VAL:HG23	2.01	0.60
2:J:346:VAL:HG21	2:J:385:VAL:HG13	1.81	0.60
2:C:116:LEU:HD12	2:C:119:LEU:HB2	1.82	0.60
1:B:303:LEU:HD13	1:B:562:THR:HG21	1.83	0.60
2:J:144:ARG:O	2:J:145:ARG:HB2	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:516:GLN:O	1:B:517:GLN:NE2	2.35	0.60
1:B:573:THR:O	1:B:574:GLU:HG2	2.01	0.60
2:I:24:TYR:O	2:I:27:VAL:HG22	2.00	0.60
2:I:57:ARG:HH11	2:I:94:ASN:ND2	1.96	0.60
1:B:771:VAL:HG21	1:B:809:PHE:O	2.01	0.60
1:B:113:PRO:CG	1:B:609:ASN:HB3	2.30	0.60
2:E:150:PHE:HB2	2:E:152:PHE:HE1	1.66	0.60
2:O:85:ILE:O	2:O:89:VAL:HG23	2.01	0.60
2:G:63:PHE:CD2	2:G:84:THR:HG23	2.36	0.60
1:A:661:GLN:NE2	1:B:348:LYS:HZ2	1.98	0.60
1:B:540:LEU:HA	1:B:543:LEU:HB2	1.83	0.60
2:H:76:ASN:H	2:J:76:ASN:HB2	1.67	0.60
2:D:68:THR:O	2:D:69:THR:C	2.40	0.60
2:H:157:ILE:HG12	2:H:214:LEU:HD13	1.84	0.60
1:B:491:GLN:O	1:B:491:GLN:HG3	2.01	0.60
1:B:393:SER:N	1:B:573:THR:HG23	2.15	0.60
1:B:863:VAL:HG12	1:B:864:GLU:H	1.66	0.60
2:J:68:THR:O	2:J:69:THR:C	2.40	0.60
1:B:630:ARG:HD3	2:L:71:LEU:HB3	0.60	0.60
1:B:790:ARG:CA	1:B:790:ARG:NE	2.54	0.60
1:B:789:LEU:O	1:B:790:ARG:O	2.20	0.60
1:B:374:ALA:O	1:B:580:SER:HB2	2.02	0.60
2:M:68:THR:O	2:M:69:THR:C	2.40	0.60
1:A:701:GLN:HB3	1:A:826:TYR:CD2	2.36	0.60
1:A:298:TYR:HD1	1:A:299:ILE:O	1.82	0.60
2:C:54:LEU:HD12	2:C:55:PRO:HD2	1.81	0.60
1:A:245:LEU:HB3	1:A:249:ASP:CB	2.32	0.60
2:N:76:ASN:HA	2:O:75:ALA:HB3	1.83	0.60
2:J:63:PHE:CD2	2:J:84:THR:HG23	2.36	0.60
2:O:100:MET:HG3	2:O:388:VAL:HG11	1.84	0.60
1:B:415:PRO:CB	1:B:480:PHE:HB2	2.31	0.60
1:B:481:ARG:NH2	1:B:496:ASN:HD21	1.99	0.60
1:B:549:LEU:HD13	1:B:877:MET:CE	2.31	0.60
1:B:484:VAL:HG22	2:I:69:THR:CG2	2.31	0.60
1:A:469:ALA:HB1	2:G:71:LEU:HD13	1.84	0.60
1:A:428:GLN:HE22	1:A:455:PRO:HD2	1.66	0.60
1:B:113:PRO:CD	1:B:609:ASN:HB3	2.32	0.60
1:B:449:ASN:ND2	1:B:455:PRO:CG	2.65	0.60
1:A:273:TYR:O	1:A:273:TYR:CD2	2.54	0.60
1:B:545:ASP:HB3	1:B:877:MET:SD	2.41	0.60
1:B:262:VAL:CG1	1:B:297:ARG:HB3	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:285:ILE:HD11	1:A:861:ASP:CB	2.24	0.60
1:B:366:PHE:C	1:B:368:THR:N	2.55	0.60
1:B:244:ILE:HD11	1:B:838:SER:HB3	1.84	0.60
1:A:457:GLN:O	1:A:460:GLU:HB3	2.01	0.60
1:B:510:LEU:HB2	1:B:540:LEU:HD13	1.82	0.60
2:O:116:LEU:HD12	2:O:119:LEU:HB2	1.83	0.60
2:G:274:GLN:HE21	2:G:274:GLN:N	2.00	0.60
2:O:157:ILE:HG12	2:O:214:LEU:HD13	1.84	0.60
2:N:274:GLN:HE21	2:N:274:GLN:N	2.00	0.60
1:A:333:VAL:HG11	1:A:380:LYS:CA	2.16	0.60
1:B:484:VAL:HG22	2:I:69:THR:HG23	1.84	0.60
1:A:146:TRP:O	1:A:833:PHE:HB3	2.02	0.60
2:K:150:PHE:HB2	2:K:152:PHE:HE1	1.66	0.60
1:B:562:THR:HB	1:B:611:HIS:CD2	2.37	0.60
2:E:274:GLN:HE21	2:E:274:GLN:N	2.00	0.60
1:B:314:PHE:N	1:B:314:PHE:CD1	2.69	0.60
2:F:274:GLN:N	2:F:274:GLN:HE21	2.00	0.60
2:D:63:PHE:CD2	2:D:84:THR:HG23	2.36	0.60
1:A:649:LEU:O	1:A:650:HIS:O	2.19	0.59
1:B:392:MET:HB3	1:B:574:GLU:HB2	1.84	0.59
1:B:248:ILE:O	1:B:251:ALA:HB3	2.02	0.59
1:B:772:ILE:CG2	1:B:773:SER:N	2.65	0.59
2:H:24:TYR:O	2:H:27:VAL:HG22	2.02	0.59
1:B:178:PRO:HD2	1:B:256:PHE:CE2	2.36	0.59
2:M:144:ARG:O	2:M:145:ARG:HB2	2.01	0.59
2:C:69:THR:OG1	2:C:70:LEU:N	2.35	0.59
2:M:274:GLN:N	2:M:274:GLN:HE21	2.00	0.59
1:B:298:TYR:HD1	1:B:299:ILE:N	1.99	0.59
1:A:111:ILE:HG23	1:A:111:ILE:O	2.02	0.59
1:A:557:LEU:O	1:A:560:CYS:SG	2.55	0.59
1:A:571:LEU:O	1:A:571:LEU:CD1	2.50	0.59
1:B:122:LEU:O	1:B:123:PHE:HB3	2.02	0.59
1:B:246:HIS:CE1	1:B:247:PRO:HD2	2.37	0.59
2:O:24:TYR:O	2:O:26:ASN:N	2.34	0.59
1:B:134:TYR:HB3	1:B:139:GLU:O	2.02	0.59
2:L:274:GLN:HE21	2:L:274:GLN:N	2.00	0.59
2:G:157:ILE:HG12	2:G:214:LEU:HD13	1.84	0.59
2:D:157:ILE:HG12	2:D:214:LEU:HD13	1.84	0.59
1:B:305:GLN:O	1:B:307:ARG:N	2.35	0.59
1:B:527:ARG:O	1:B:531:ARG:CG	2.51	0.59
2:G:143:ASN:HA	2:I:145:ARG:HD3	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:178:PRO:HD2	1:A:256:PHE:HE2	1.64	0.59
2:J:274:GLN:N	2:J:274:GLN:HE21	2.00	0.59
2:M:63:PHE:CD2	2:M:84:THR:HG23	2.36	0.59
1:A:492:VAL:HG13	1:A:558:MET:HE1	1.83	0.59
1:B:415:PRO:HB3	1:B:480:PHE:HB2	1.84	0.59
1:A:548:ARG:HH12	1:A:878:ASN:N	1.98	0.59
1:A:122:LEU:CD1	1:A:201:ASP:HB2	2.33	0.59
1:B:701:GLN:HB2	1:B:826:TYR:CD2	2.37	0.59
1:B:133:ILE:CD1	1:B:145:ARG:HB2	2.33	0.59
2:I:157:ILE:HG12	2:I:214:LEU:HD13	1.84	0.59
2:I:69:THR:OG1	2:I:70:LEU:N	2.35	0.59
1:A:499:ASP:CA	1:A:505:GLN:HE21	2.16	0.59
1:A:833:PHE:HZ	1:A:835:PHE:HD1	1.48	0.59
1:A:346:ILE:O	1:A:349:MET:HB3	2.03	0.59
2:C:274:GLN:HE21	2:C:274:GLN:N	2.00	0.59
1:A:306:ASP:C	1:A:308:LEU:N	2.56	0.59
1:A:770:SER:O	1:A:771:VAL:C	2.40	0.59
2:N:24:TYR:O	2:N:27:VAL:HG22	2.02	0.59
2:M:157:ILE:HG12	2:M:214:LEU:HD13	1.84	0.59
2:H:274:GLN:HE21	2:H:274:GLN:N	2.00	0.59
1:A:661:GLN:HE21	1:B:348:LYS:HZ2	1.50	0.59
1:B:478:ASN:O	1:B:480:PHE:N	2.33	0.59
1:A:548:ARG:HB3	1:A:876:ILE:HG23	1.85	0.59
1:B:265:LEU:HB3	1:B:296:ALA:CB	2.32	0.59
2:N:150:PHE:HB2	2:N:152:PHE:HE1	1.66	0.59
2:L:157:ILE:HG12	2:L:214:LEU:HD13	1.84	0.59
1:A:768:ASP:OD1	1:A:769:SER:N	2.35	0.59
1:B:646:LEU:HA	1:B:649:LEU:CD1	2.26	0.59
1:A:164:GLU:O	1:A:167:LEU:HB3	2.03	0.59
2:E:157:ILE:HG12	2:E:214:LEU:HD13	1.84	0.59
2:K:157:ILE:HG12	2:K:214:LEU:HD13	1.84	0.59
1:B:802:ILE:HG22	1:B:802:ILE:O	2.01	0.59
1:A:713:GLU:O	1:A:720:TYR:HB2	2.02	0.59
1:A:587:LEU:O	1:A:588:ILE:HG13	2.03	0.59
1:A:201:ASP:O	1:A:204:THR:OG1	2.16	0.59
1:A:757:VAL:HG12	1:A:758:ALA:H	1.68	0.59
2:O:8:SER:O	2:O:11:LEU:N	2.36	0.59
2:K:274:GLN:HE21	2:K:274:GLN:N	2.00	0.59
2:J:157:ILE:HG12	2:J:214:LEU:HD13	1.84	0.59
1:B:863:VAL:HG12	1:B:864:GLU:N	2.18	0.59
1:B:180:TYR:HD1	1:B:181:LEU:N	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:142:LEU:O	1:A:144:ASN:N	2.31	0.59
1:A:326:TYR:CD1	1:A:384:ALA:HB1	2.38	0.58
1:B:435:ILE:CG2	1:B:436:ILE:H	2.06	0.58
1:B:510:LEU:HD13	1:B:537:SER:HA	1.85	0.58
2:L:57:ARG:HH11	2:L:94:ASN:ND2	1.96	0.58
1:A:699:ILE:HG23	1:A:700:ALA:N	2.17	0.58
2:H:150:PHE:HB2	2:H:152:PHE:HE1	1.66	0.58
2:I:85:ILE:O	2:I:89:VAL:HG23	2.03	0.58
2:L:85:ILE:O	2:L:89:VAL:HG23	2.03	0.58
2:F:12:LYS:C	2:F:14:ALA:H	2.06	0.58
1:A:262:VAL:CG1	1:A:297:ARG:HB3	2.33	0.58
2:L:69:THR:OG1	2:L:70:LEU:N	2.35	0.58
1:B:425:VAL:HA	1:B:428:GLN:NE2	2.18	0.58
1:B:745:ALA:O	1:B:748:THR:N	2.36	0.58
1:A:516:GLN:N	1:A:516:GLN:OE1	2.31	0.58
2:C:106:ARG:H	2:C:106:ARG:CD	2.12	0.58
2:K:142:GLN:HE21	2:K:143:ASN:N	2.01	0.58
2:D:153:HIS:NE2	2:E:153:HIS:NE2	2.51	0.58
2:I:274:GLN:HE21	2:I:274:GLN:N	2.00	0.58
1:B:254:GLU:HB3	2:N:69:THR:OG1	2.02	0.58
1:A:501:HIS:C	1:A:503:ILE:H	2.05	0.58
1:B:779:ASP:N	1:B:798:ILE:HD11	2.18	0.58
2:H:76:ASN:HB2	2:J:76:ASN:CA	2.33	0.58
2:J:12:LYS:C	2:J:14:ALA:H	2.07	0.58
1:B:176:GLU:O	1:B:178:PRO:CD	2.51	0.58
1:A:810:TYR:O	1:A:812:VAL:N	2.37	0.58
1:A:310:LEU:O	1:A:318:TRP:HD1	1.86	0.58
1:B:442:MET:HE3	1:B:463:ILE:HG12	1.85	0.58
1:B:504:ASN:C	2:J:70:LEU:HD13	2.24	0.58
2:N:69:THR:O	2:N:70:LEU:CB	2.52	0.58
1:A:499:ASP:HA	1:A:505:GLN:HE21	1.68	0.58
1:A:366:PHE:C	1:A:368:THR:N	2.49	0.58
1:A:223:ARG:O	1:A:226:ALA:HB3	2.03	0.58
2:K:24:TYR:O	2:K:27:VAL:HG22	2.02	0.58
2:C:12:LYS:C	2:C:14:ALA:H	2.07	0.58
2:N:157:ILE:HG12	2:N:214:LEU:HD13	1.84	0.58
2:C:157:ILE:HG12	2:C:214:LEU:HD13	1.84	0.58
2:D:274:GLN:N	2:D:274:GLN:HE21	2.00	0.58
1:A:389:GLN:OE1	1:A:567:HIS:HA	2.03	0.58
1:A:771:VAL:O	1:A:774:LEU:N	2.34	0.58
2:E:24:TYR:O	2:E:27:VAL:HG22	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:85:ILE:O	2:C:89:VAL:HG23	2.03	0.58
2:G:85:ILE:O	2:G:89:VAL:HG23	2.03	0.58
2:K:12:LYS:C	2:K:14:ALA:H	2.07	0.58
1:A:180:TYR:CD1	1:A:180:TYR:C	2.76	0.58
2:F:260:GLU:HG2	2:F:274:GLN:HG3	1.86	0.58
2:O:274:GLN:N	2:O:274:GLN:HE21	2.00	0.58
1:B:394:LEU:O	1:B:396:PHE:N	2.37	0.58
2:N:142:GLN:HE21	2:N:143:ASN:N	2.01	0.58
2:J:150:PHE:HB2	2:J:152:PHE:HE1	1.68	0.58
2:I:7:LEU:O	2:I:11:LEU:HG	2.04	0.58
2:I:8:SER:O	2:I:11:LEU:N	2.37	0.58
1:B:182:LEU:CD2	1:B:846:LEU:HA	2.33	0.58
2:E:260:GLU:HG2	2:E:274:GLN:HG3	1.86	0.58
1:B:451:ASP:H	1:B:452:PRO:HD3	1.69	0.58
1:A:503:ILE:HG22	1:A:506:LEU:H	1.69	0.58
1:A:436:ILE:O	1:A:440:PHE:HB3	2.03	0.58
2:F:85:ILE:O	2:F:89:VAL:HG23	2.03	0.58
2:M:85:ILE:O	2:M:89:VAL:HG23	2.03	0.58
2:D:12:LYS:C	2:D:14:ALA:H	2.07	0.58
2:C:7:LEU:O	2:C:11:LEU:HG	2.04	0.58
2:F:5:TYR:CE2	2:F:131:ASN:HA	2.39	0.58
1:B:508:GLU:HG2	1:B:512:GLN:NE2	2.18	0.58
1:B:200:VAL:HG12	1:B:201:ASP:N	2.18	0.58
2:I:76:ASN:CA	2:M:76:ASN:HB2	2.33	0.58
1:A:188:VAL:CG1	1:A:189:GLU:N	2.66	0.58
2:D:85:ILE:O	2:D:89:VAL:HG23	2.03	0.58
2:I:5:TYR:CE2	2:I:131:ASN:HA	2.39	0.58
2:C:8:SER:O	2:C:11:LEU:N	2.37	0.58
2:O:150:PHE:HB2	2:O:152:PHE:CE1	2.38	0.58
2:M:260:GLU:HG2	2:M:274:GLN:HG3	1.86	0.58
2:J:260:GLU:HG2	2:J:274:GLN:HG3	1.86	0.58
2:K:260:GLU:HG2	2:K:274:GLN:HG3	1.86	0.58
1:B:485:ILE:CD1	2:I:76:ASN:HD21	2.17	0.58
1:A:404:LEU:O	1:A:407:GLY:N	2.37	0.58
1:B:218:GLU:O	1:B:221:VAL:HG23	2.02	0.58
1:B:340:VAL:O	1:B:587:LEU:HD11	2.04	0.58
2:O:12:LYS:C	2:O:14:ALA:H	2.07	0.58
1:B:211:ILE:O	1:B:212:PHE:C	2.40	0.58
1:B:482:GLN:CB	1:B:493:LEU:HD22	2.33	0.58
1:B:527:ARG:O	1:B:531:ARG:HG2	2.04	0.58
1:B:264:PRO:O	1:B:265:LEU:HB2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:94:THR:HG23	1:B:658:PRO:CG	2.34	0.58
2:J:85:ILE:O	2:J:89:VAL:HG23	2.03	0.58
2:L:5:TYR:CE2	2:L:131:ASN:HA	2.39	0.58
2:F:8:SER:O	2:F:11:LEU:N	2.37	0.58
1:B:452:PRO:C	1:B:453:GLN:OE1	2.42	0.58
1:B:141:GLU:O	1:B:142:LEU:HB2	2.03	0.58
2:F:69:THR:OG1	2:F:70:LEU:N	2.35	0.58
2:E:142:GLN:HE21	2:E:143:ASN:N	2.01	0.58
1:A:666:ARG:NH2	1:B:879:GLU:OE2	2.36	0.57
2:J:22:THR:O	2:J:72:ASN:HA	2.04	0.57
2:G:22:THR:O	2:G:72:ASN:HA	2.04	0.57
1:A:496:ASN:ND2	1:A:498:ARG:HB2	2.19	0.57
1:A:510:LEU:HD11	1:A:537:SER:HB3	1.84	0.57
1:B:126:PHE:HD2	1:B:126:PHE:H	1.50	0.57
1:A:150:LEU:HD12	1:A:696:SER:CB	2.33	0.57
2:D:76:ASN:HB2	2:L:76:ASN:CB	2.34	0.57
2:N:12:LYS:C	2:N:14:ALA:H	2.07	0.57
2:M:130:ASP:OD2	2:N:17:LYS:HE3	2.04	0.57
2:M:153:HIS:NE2	2:N:153:HIS:NE2	2.51	0.57
1:B:494:ASN:HD22	1:B:495:ASP:N	2.01	0.57
1:A:491:GLN:HB3	1:A:564:ASN:HB3	1.86	0.57
1:A:853:ASP:O	1:A:854:LEU:HB2	2.03	0.57
1:A:676:VAL:O	1:A:680:ASP:HB2	2.04	0.57
2:K:85:ILE:O	2:K:89:VAL:HG23	2.04	0.57
2:G:153:HIS:NE2	2:H:153:HIS:NE2	2.51	0.57
2:J:153:HIS:NE2	2:K:153:HIS:NE2	2.51	0.57
1:A:513:LEU:CA	1:A:516:GLN:HE22	1.98	0.57
1:A:871:PHE:O	1:A:871:PHE:HD1	1.86	0.57
1:A:520:THR:HG21	1:A:526:LYS:HB3	1.85	0.57
1:A:530:GLN:HA	1:A:533:ILE:HD12	1.85	0.57
1:B:816:ASP:O	1:B:817:TRP:HB2	2.02	0.57
1:B:244:ILE:HD12	1:B:838:SER:O	2.04	0.57
2:F:7:LEU:O	2:F:11:LEU:HG	2.04	0.57
1:B:810:TYR:O	1:B:812:VAL:N	2.36	0.57
2:O:73:LEU:HD22	2:O:77:TYR:CD2	2.38	0.57
1:B:635:GLN:HE22	1:B:740:ARG:HH22	1.51	0.57
2:E:69:THR:O	2:E:70:LEU:CB	2.51	0.57
2:L:8:SER:O	2:L:11:LEU:N	2.37	0.57
2:L:12:LYS:C	2:L:14:ALA:H	2.07	0.57
2:C:5:TYR:CE2	2:C:131:ASN:HA	2.39	0.57
2:N:260:GLU:HG2	2:N:274:GLN:HG3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:157:ILE:HG12	2:F:214:LEU:HD13	1.84	0.57
2:O:144:ARG:O	2:O:145:ARG:HG2	2.04	0.57
1:B:498:ARG:HA	1:B:502:VAL:HB	1.85	0.57
1:B:506:LEU:HD21	1:B:543:LEU:HB3	1.85	0.57
1:A:421:ARG:CB	1:B:523:VAL:HG21	2.35	0.57
1:B:493:LEU:HD11	1:B:567:HIS:HB2	1.87	0.57
1:A:721:VAL:HG13	1:A:800:TYR:O	2.04	0.57
1:A:817:TRP:CG	1:A:818:VAL:N	2.71	0.57
1:B:645:PHE:HD2	1:B:646:LEU:HD23	1.70	0.57
2:O:7:LEU:O	2:O:11:LEU:HG	2.05	0.57
1:B:606:VAL:O	1:B:607:ASN:C	2.43	0.57
2:H:88:PHE:O	2:H:91:PHE:HB3	2.05	0.57
1:A:323:THR:OG1	1:A:390:ARG:NH1	2.38	0.57
1:A:496:ASN:O	1:A:497:ILE:C	2.42	0.57
1:B:159:ASP:OD2	1:B:761:GLY:HA2	2.04	0.57
1:B:577:GLN:C	1:B:579:THR:N	2.57	0.57
1:A:269:ILE:HG21	1:A:298:TYR:CE2	2.39	0.57
2:N:88:PHE:O	2:N:91:PHE:HB3	2.05	0.57
2:H:260:GLU:HG2	2:H:274:GLN:HG3	1.86	0.57
2:H:76:ASN:HB3	2:J:76:ASN:HB2	1.83	0.57
1:A:790:ARG:NE	1:B:287:ASN:OD1	2.38	0.57
1:B:653:ASP:O	1:B:654:VAL:C	2.43	0.57
2:G:12:LYS:C	2:G:14:ALA:H	2.07	0.57
2:K:8:SER:O	2:K:11:LEU:N	2.37	0.57
2:N:8:SER:O	2:N:11:LEU:N	2.37	0.57
1:B:791:LYS:O	1:B:792:VAL:CG2	2.48	0.57
1:A:503:ILE:CG2	1:A:506:LEU:HB2	2.35	0.57
1:A:783:PHE:N	1:A:783:PHE:CD1	2.71	0.57
2:N:85:ILE:O	2:N:89:VAL:HG23	2.04	0.57
2:G:8:SER:O	2:G:11:LEU:N	2.38	0.57
2:E:8:SER:O	2:E:11:LEU:N	2.37	0.57
2:K:7:LEU:O	2:K:11:LEU:HG	2.05	0.57
2:G:260:GLU:HG2	2:G:274:GLN:HG3	1.86	0.57
2:L:260:GLU:HG2	2:L:274:GLN:HG3	1.86	0.57
2:C:260:GLU:HG2	2:C:274:GLN:HG3	1.86	0.57
2:I:260:GLU:HG2	2:I:274:GLN:HG3	1.86	0.57
2:D:260:GLU:HG2	2:D:274:GLN:HG3	1.86	0.57
1:A:319:ASP:OD2	1:A:571:LEU:N	2.38	0.57
1:B:433:ASN:C	1:B:435:ILE:H	2.07	0.57
1:A:131:LEU:HD12	1:A:132:PRO:CD	2.34	0.57
1:A:346:ILE:HD11	1:A:369:GLY:HA2	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:12:LYS:HG2	2:O:16:ASP:OD2	2.05	0.57
2:J:8:SER:O	2:J:11:LEU:N	2.38	0.57
2:D:8:SER:O	2:D:11:LEU:N	2.38	0.57
2:O:109:ILE:O	2:O:109:ILE:HD12	2.05	0.57
1:B:433:ASN:ND2	1:B:446:HIS:CD2	2.72	0.57
1:B:481:ARG:CD	2:I:65:LEU:HD13	2.35	0.57
1:A:130:GLN:O	1:A:131:LEU:CB	2.53	0.57
1:B:150:LEU:HD12	1:B:696:SER:HA	1.87	0.57
1:B:770:SER:O	1:B:771:VAL:C	2.42	0.57
1:A:694:ARG:HA	1:A:701:GLN:HE22	1.70	0.57
2:H:85:ILE:O	2:H:89:VAL:HG23	2.04	0.57
2:E:85:ILE:O	2:E:89:VAL:HG23	2.04	0.57
2:J:12:LYS:HG2	2:J:16:ASP:OD2	2.05	0.57
2:H:8:SER:O	2:H:11:LEU:N	2.37	0.57
2:H:12:LYS:C	2:H:14:ALA:H	2.07	0.57
2:D:130:ASP:OD2	2:E:17:LYS:HE3	2.05	0.57
1:A:793:ASP:C	1:A:795:LEU:H	2.07	0.57
2:H:142:GLN:HE21	2:H:143:ASN:N	2.02	0.57
1:B:390:ARG:HG3	1:B:391:THR:H	1.70	0.56
1:B:481:ARG:NH2	1:B:496:ASN:ND2	2.53	0.56
1:B:484:VAL:HG13	2:I:69:THR:OG1	2.04	0.56
1:B:494:ASN:OD1	2:I:69:THR:N	2.38	0.56
1:B:122:LEU:HG	1:B:201:ASP:HB3	1.86	0.56
2:M:12:LYS:C	2:M:14:ALA:H	2.07	0.56
2:D:12:LYS:HG2	2:D:16:ASP:OD2	2.05	0.56
1:A:810:TYR:CD1	1:A:811:LEU:N	2.73	0.56
1:B:164:GLU:O	1:B:167:LEU:HB3	2.05	0.56
1:B:790:ARG:HG3	1:B:791:LYS:N	2.21	0.56
1:A:401:TYR:HA	1:A:404:LEU:HD12	1.86	0.56
1:A:527:ARG:NH1	1:A:531:ARG:HH21	2.03	0.56
1:B:413:VAL:CG1	1:B:414:VAL:N	2.61	0.56
2:K:30:LEU:O	2:K:31:ILE:C	2.43	0.56
2:C:124:PHE:O	2:C:127:ILE:HG13	2.06	0.56
1:B:503:ILE:HD13	1:B:544:VAL:CG1	2.34	0.56
1:B:498:ARG:CB	2:I:32:GLN:HE22	2.17	0.56
2:M:22:THR:O	2:M:72:ASN:HA	2.04	0.56
1:A:113:PRO:O	1:A:115:GLN:HG2	2.06	0.56
1:B:193:SER:CB	1:B:226:ALA:HA	2.34	0.56
1:A:443:GLN:NE2	1:A:521:MET:HG2	2.20	0.56
1:B:712:LEU:CB	1:B:819:PRO:HB2	2.36	0.56
1:B:160:TYR:OH	1:B:633:LEU:HG	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:811:LEU:H	1:B:811:LEU:HD23	1.68	0.56
2:D:22:THR:O	2:D:72:ASN:HA	2.04	0.56
2:D:150:PHE:HB2	2:D:152:PHE:HE1	1.68	0.56
2:O:88:PHE:O	2:O:91:PHE:HB3	2.05	0.56
2:F:88:PHE:O	2:F:91:PHE:HB3	2.06	0.56
1:B:320:THR:HG21	1:B:652:PHE:HB3	1.88	0.56
2:E:88:PHE:O	2:E:91:PHE:HB3	2.05	0.56
2:G:12:LYS:HG2	2:G:16:ASP:OD2	2.05	0.56
2:D:128:ASN:O	2:E:22:THR:HB	2.06	0.56
2:I:12:LYS:C	2:I:14:ALA:H	2.07	0.56
1:A:311:HIS:NE2	1:A:566:GLN:NE2	2.52	0.56
1:B:510:LEU:HA	1:B:513:LEU:HD12	1.87	0.56
1:A:313:ASN:CG	1:B:534:LEU:CD2	2.74	0.56
1:B:506:LEU:CD2	1:B:544:VAL:HA	2.35	0.56
1:B:464:GLN:NE2	2:H:64:GLY:HA3	2.15	0.56
1:A:763:LEU:HD23	1:A:764:PRO:HD3	1.87	0.56
2:O:71:LEU:HG	2:O:72:ASN:OD1	2.05	0.56
2:E:23:LEU:HD22	2:E:25:SER:OG	2.06	0.56
2:H:23:LEU:HD22	2:H:25:SER:OG	2.06	0.56
2:M:8:SER:O	2:M:11:LEU:N	2.38	0.56
2:F:12:LYS:HG2	2:F:16:ASP:OD2	2.06	0.56
2:O:133:SER:O	2:O:136:ILE:HG22	2.05	0.56
2:L:124:PHE:O	2:L:127:ILE:HG13	2.05	0.56
1:B:252:PHE:O	1:B:254:GLU:N	2.38	0.56
1:A:503:ILE:HG22	1:A:506:LEU:HB2	1.88	0.56
1:B:803:ASN:N	1:B:807:ASN:HD21	2.02	0.56
2:L:88:PHE:O	2:L:91:PHE:HB3	2.06	0.56
2:G:128:ASN:O	2:H:22:THR:HB	2.06	0.56
2:L:12:LYS:HG2	2:L:16:ASP:OD2	2.06	0.56
2:L:7:LEU:O	2:L:11:LEU:HG	2.04	0.56
2:E:12:LYS:C	2:E:14:ALA:H	2.07	0.56
2:L:133:SER:O	2:L:136:ILE:HG22	2.05	0.56
2:F:133:SER:O	2:F:136:ILE:HG22	2.05	0.56
1:A:415:PRO:HD2	1:A:480:PHE:CE1	2.40	0.56
1:A:650:HIS:O	1:A:651:ILE:CB	2.54	0.56
1:B:786:ILE:O	1:B:787:VAL:C	2.44	0.56
2:H:74:ASP:OD2	2:J:76:ASN:HB2	2.05	0.56
1:B:848:PHE:C	1:B:849:THR:OG1	2.39	0.56
1:B:812:VAL:HG23	1:B:817:TRP:CE3	2.41	0.56
1:B:812:VAL:HG23	1:B:817:TRP:CZ3	2.40	0.56
1:B:156:PRO:HB2	1:B:161:ASP:CB	2.33	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:88:PHE:O	2:I:91:PHE:HB3	2.06	0.56
1:B:654:VAL:HG12	1:B:655:ALA:N	2.20	0.56
2:O:147:ARG:O	2:O:148:THR:HB	2.05	0.56
2:F:153:HIS:NE2	2:H:153:HIS:NE2	2.54	0.56
2:C:133:SER:O	2:C:136:ILE:HG22	2.05	0.56
1:B:422:GLU:N	1:B:422:GLU:OE1	2.39	0.56
1:B:535:LEU:O	1:B:539:ARG:CG	2.54	0.56
1:B:783:PHE:O	1:B:784:ALA:C	2.42	0.56
2:F:106:ARG:HG2	2:F:107:ASN:H	1.71	0.56
1:A:631:LEU:HB3	1:A:633:LEU:CD1	2.35	0.56
2:M:12:LYS:HG2	2:M:16:ASP:OD2	2.05	0.56
2:O:69:THR:O	2:O:70:LEU:O	2.22	0.56
2:C:12:LYS:HG2	2:C:16:ASP:OD2	2.06	0.56
2:N:7:LEU:O	2:N:11:LEU:HG	2.05	0.56
2:G:130:ASP:OD2	2:H:17:LYS:HE3	2.05	0.56
1:B:563:MET:SD	1:B:611:HIS:CD2	2.98	0.56
2:O:260:GLU:HG2	2:O:274:GLN:HG3	1.86	0.56
2:I:153:HIS:NE2	2:K:153:HIS:NE2	2.54	0.56
1:A:332:VAL:HG13	1:A:599:THR:HG22	1.88	0.56
1:A:305:GLN:OE1	1:A:564:ASN:ND2	2.38	0.56
1:A:501:HIS:C	1:A:503:ILE:N	2.59	0.56
1:A:508:GLU:HG2	1:A:512:GLN:NE2	2.19	0.56
1:B:135:ARG:HD2	1:B:138:GLY:HA3	1.86	0.56
1:B:810:TYR:C	1:B:812:VAL:HG12	2.26	0.56
1:B:703:VAL:HG13	1:B:825:VAL:HG22	1.87	0.56
1:B:825:VAL:CG1	1:B:826:TYR:H	2.19	0.56
2:I:106:ARG:HG2	2:I:107:ASN:H	1.71	0.56
2:H:30:LEU:O	2:H:31:ILE:C	2.43	0.56
2:J:130:ASP:OD2	2:K:17:LYS:HE3	2.04	0.56
1:B:275:PRO:HD2	1:B:278:ILE:HD12	1.86	0.56
2:K:88:PHE:O	2:K:91:PHE:HB3	2.05	0.56
2:E:12:LYS:HG2	2:E:16:ASP:OD2	2.06	0.56
1:B:153:ASP:CG	1:B:153:ASP:O	2.44	0.56
1:A:163:ARG:HH22	1:A:736:GLU:CD	2.10	0.56
1:B:742:GLY:O	1:B:744:TYR:HE2	1.89	0.56
1:B:369:GLY:HA2	1:B:371:ASN:OD1	2.06	0.56
1:A:263[A]:GLU:HB3	1:A:264:PRO:HD3	1.87	0.56
1:A:593:VAL:O	1:A:594:ILE:HG13	2.06	0.56
1:A:486:ASP:HB2	1:A:490:ASN:ND2	2.20	0.56
2:D:133:SER:O	2:D:136:ILE:HG22	2.06	0.56
1:A:517:GLN:HG3	1:A:517:GLN:O	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:326:TYR:CD1	1:B:384:ALA:HB1	2.40	0.55
1:B:326:TYR:CE2	1:B:574:GLU:OE2	2.59	0.55
1:A:414:VAL:HG12	1:A:418:MET:HB2	1.87	0.55
1:A:501:HIS:O	1:A:503:ILE:N	2.34	0.55
1:A:362:SER:HA	1:A:365:GLN:HE21	1.69	0.55
1:A:428:GLN:CG	1:A:429:LEU:N	2.69	0.55
2:C:57:ARG:HH11	2:C:94:ASN:ND2	1.96	0.55
2:M:88:PHE:O	2:M:91:PHE:HB3	2.06	0.55
2:J:128:ASN:O	2:K:22:THR:HB	2.06	0.55
2:H:7:LEU:O	2:H:11:LEU:HG	2.05	0.55
2:L:153:HIS:NE2	2:N:153:HIS:NE2	2.54	0.55
1:B:625:ILE:O	1:B:628:ALA:HB3	2.07	0.55
2:G:133:SER:O	2:G:136:ILE:HG22	2.06	0.55
1:B:498:ARG:CB	1:B:505:GLN:HE22	2.10	0.55
1:A:158:GLY:O	1:A:162:VAL:HG23	2.07	0.55
1:A:404:LEU:HD22	1:A:435:ILE:CD1	2.33	0.55
1:A:869:VAL:HG11	1:A:873:ASN:HA	1.87	0.55
2:K:23:LEU:HD22	2:K:25:SER:OG	2.06	0.55
1:A:783:PHE:O	1:A:784:ALA:C	2.42	0.55
2:E:7:LEU:O	2:E:11:LEU:HG	2.05	0.55
2:H:12:LYS:HG2	2:H:16:ASP:OD2	2.06	0.55
1:B:240:ASN:HA	1:B:842:LEU:O	2.07	0.55
2:L:22:THR:OG1	2:L:26:ASN:ND2	2.39	0.55
2:I:133:SER:O	2:I:136:ILE:HG22	2.05	0.55
1:B:389:GLN:HG3	1:B:565:MET:HB2	1.88	0.55
1:A:705:ILE:HG12	1:A:705:ILE:O	2.06	0.55
1:A:777:LYS:HE2	1:A:780:ALA:HB2	1.88	0.55
1:A:436:ILE:HG13	1:A:437:TYR:H	1.70	0.55
1:A:727:LEU:HD23	1:A:826:TYR:CE1	2.41	0.55
2:K:24:TYR:O	2:K:26:ASN:N	2.40	0.55
2:C:88:PHE:O	2:C:91:PHE:HB3	2.06	0.55
2:M:54:LEU:HD12	2:M:55:PRO:CD	2.36	0.55
2:F:124:PHE:O	2:F:127:ILE:HG13	2.06	0.55
1:A:313:ASN:HD21	1:B:538:ASN:ND2	2.04	0.55
1:B:457:GLN:HG3	1:B:458:ILE:N	2.21	0.55
1:A:803:ASN:C	1:A:805:ASP:H	2.10	0.55
1:A:199:VAL:CG1	1:A:200:VAL:H	2.02	0.55
1:B:717:MET:HE1	1:B:830:PRO:CG	2.37	0.55
1:A:270:ILE:HD11	1:A:292:LEU:CD1	2.30	0.55
2:M:150:PHE:HB2	2:M:152:PHE:HE1	1.68	0.55
2:E:30:LEU:O	2:E:31:ILE:C	2.43	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:214:ASP:O	1:B:216:GLU:N	2.38	0.55
2:K:12:LYS:HG2	2:K:16:ASP:OD2	2.06	0.55
2:N:133:SER:O	2:N:136:ILE:HG22	2.07	0.55
2:E:129:PHE:C	2:E:129:PHE:CD1	2.80	0.55
2:G:30:LEU:O	2:G:31:ILE:C	2.45	0.55
2:F:30:LEU:O	2:F:31:ILE:C	2.44	0.55
1:A:674:VAL:HG12	1:A:678:ARG:HB2	1.87	0.55
1:B:631:LEU:O	1:B:633:LEU:N	2.40	0.55
1:A:603:TYR:O	1:A:606:VAL:CG2	2.54	0.55
2:N:24:TYR:O	2:N:26:ASN:N	2.40	0.55
2:H:24:TYR:O	2:H:26:ASN:N	2.39	0.55
2:M:128:ASN:O	2:N:22:THR:HB	2.06	0.55
2:J:133:SER:O	2:J:136:ILE:HG22	2.06	0.55
2:K:133:SER:O	2:K:136:ILE:HG22	2.07	0.55
2:M:133:SER:O	2:M:136:ILE:HG22	2.06	0.55
1:B:258:GLN:HE21	2:N:70:LEU:HA	1.71	0.55
1:A:721:VAL:HG11	1:A:799:LEU:HD22	1.87	0.55
1:A:704:ILE:O	1:A:823:THR:HB	2.07	0.55
1:A:539:ARG:O	1:A:542:GLN:N	2.39	0.55
2:H:152:PHE:N	2:H:152:PHE:CD1	2.75	0.55
2:D:88:PHE:O	2:D:91:PHE:HB3	2.06	0.55
2:G:7:LEU:O	2:G:11:LEU:HG	2.07	0.55
2:I:12:LYS:HG2	2:I:16:ASP:OD2	2.06	0.55
2:K:12:LYS:C	2:K:14:ALA:N	2.60	0.55
2:C:22:THR:OG1	2:C:26:ASN:ND2	2.39	0.55
1:B:727:LEU:O	1:B:728:ASP:CB	2.54	0.55
2:N:73:LEU:HD22	2:N:77:TYR:CD2	2.42	0.55
1:A:839:MET:HG2	1:A:840:HIS:N	2.21	0.55
2:D:30:LEU:O	2:D:31:ILE:C	2.45	0.55
1:B:107:LYS:O	1:B:111:ILE:HG13	2.07	0.55
1:B:604:TYR:O	1:B:608:VAL:HG23	2.07	0.55
2:D:54:LEU:HD12	2:D:55:PRO:CD	2.36	0.55
2:J:7:LEU:O	2:J:11:LEU:HG	2.07	0.55
2:I:12:LYS:C	2:I:14:ALA:N	2.60	0.55
2:N:12:LYS:HG2	2:N:16:ASP:OD2	2.06	0.55
1:A:730:PHE:CD1	1:A:730:PHE:N	2.74	0.55
1:B:675:GLU:O	1:B:676:VAL:C	2.44	0.55
2:M:100:MET:HG3	2:M:388:VAL:HG11	1.89	0.55
1:A:322:THR:HG21	1:A:390:ARG:HA	1.88	0.55
2:I:124:PHE:O	2:I:127:ILE:HG13	2.06	0.55
2:I:30:LEU:O	2:I:31:ILE:C	2.44	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:563:MET:CA	1:A:563:MET:HE2	2.17	0.55
1:A:371:ASN:O	1:A:373:GLN:N	2.40	0.55
1:B:817:TRP:CD1	1:B:818:VAL:N	2.73	0.55
2:L:106:ARG:HG2	2:L:107:ASN:H	1.71	0.55
2:K:69:THR:O	2:K:70:LEU:CB	2.51	0.55
2:K:142:GLN:O	2:L:145:ARG:CD	2.55	0.55
2:N:23:LEU:HD22	2:N:25:SER:OG	2.06	0.55
2:E:152:PHE:N	2:E:152:PHE:CD1	2.75	0.55
2:N:152:PHE:N	2:N:152:PHE:CD1	2.75	0.55
2:I:22:THR:OG1	2:I:26:ASN:ND2	2.39	0.55
1:A:108:LEU:O	1:A:111:ILE:HG22	2.06	0.55
1:B:421:ARG:HB3	1:B:422:GLU:OE1	2.07	0.55
1:B:515:ARG:O	1:B:515:ARG:HG3	2.07	0.55
1:B:519:PRO:O	1:B:520:THR:OG1	2.23	0.55
1:A:803:ASN:HD22	1:A:806:SER:H	1.55	0.55
1:A:499:ASP:O	1:A:501:HIS:N	2.40	0.55
1:A:506:LEU:HD21	1:A:543:LEU:HB3	1.88	0.55
1:B:261:LEU:O	1:B:261:LEU:HG	2.07	0.55
1:B:262:VAL:HG11	1:B:297:ARG:HB3	1.88	0.55
1:B:224:PHE:CE1	2:O:71:LEU:HB2	2.42	0.55
1:B:118:LYS:HG2	1:B:119:GLN:H	1.71	0.55
1:A:124:ARG:C	1:A:125:ILE:HD12	2.27	0.55
1:B:681:ILE:O	1:B:685:ILE:HG13	2.06	0.55
1:A:594:ILE:HG23	1:A:595:PRO:CD	2.37	0.55
2:G:12:LYS:C	2:G:14:ALA:N	2.60	0.55
1:A:179:ASP:HA	1:A:677:ARG:HH22	1.72	0.55
1:B:314:PHE:CZ	1:B:664:ARG:HG2	2.42	0.55
2:D:133:SER:O	2:D:135:TYR:N	2.40	0.55
2:J:133:SER:O	2:J:135:TYR:N	2.40	0.55
2:H:133:SER:O	2:H:136:ILE:HG22	2.07	0.55
1:B:544:VAL:HG11	1:B:548:ARG:HH21	1.71	0.55
1:B:255:TYR:HA	2:N:69:THR:HG23	1.85	0.55
1:A:822:THR:C	1:A:823:THR:HG23	2.27	0.55
1:A:548:ARG:O	1:A:551:ALA:HB3	2.06	0.55
1:A:445:MET:C	1:A:447:TYR:N	2.59	0.55
2:L:30:LEU:O	2:L:31:ILE:C	2.44	0.55
2:D:76:ASN:CB	2:L:76:ASN:HB2	2.35	0.55
2:N:30:LEU:O	2:N:31:ILE:C	2.44	0.55
2:M:7:LEU:O	2:M:11:LEU:HG	2.07	0.55
2:L:12:LYS:C	2:L:14:ALA:N	2.60	0.55
2:D:100:MET:HG3	2:D:388:VAL:HG11	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:421:ARG:O	1:A:423:SER:N	2.41	0.54
1:B:401:TYR:HA	1:B:404:LEU:HD12	1.89	0.54
1:A:275:PRO:HB2	1:A:278:ILE:CG1	2.36	0.54
2:E:27:VAL:O	2:E:31:ILE:HG12	2.07	0.54
2:J:54:LEU:HD12	2:J:55:PRO:CD	2.36	0.54
1:A:488:VAL:O	1:A:490:ASN:N	2.40	0.54
2:K:129:PHE:C	2:K:129:PHE:CD1	2.80	0.54
2:F:22:THR:OG1	2:F:26:ASN:ND2	2.39	0.54
2:H:129:PHE:CD1	2:H:129:PHE:C	2.80	0.54
2:K:73:LEU:HD22	2:K:77:TYR:CD2	2.42	0.54
1:A:365:GLN:C	1:A:366:PHE:CD1	2.81	0.54
2:M:30:LEU:O	2:M:31:ILE:C	2.45	0.54
1:A:700:ALA:O	1:A:701:GLN:HB2	2.06	0.54
2:K:27:VAL:O	2:K:31:ILE:HG12	2.07	0.54
2:J:88:PHE:O	2:J:91:PHE:HB3	2.06	0.54
2:L:167:ASN:ND2	2:L:178:GLY:HA2	2.23	0.54
2:F:167:ASN:ND2	2:F:178:GLY:HA2	2.23	0.54
2:G:54:LEU:HD12	2:G:55:PRO:CD	2.36	0.54
2:D:7:LEU:O	2:D:11:LEU:HG	2.07	0.54
2:C:12:LYS:C	2:C:14:ALA:N	2.60	0.54
2:N:12:LYS:C	2:N:14:ALA:N	2.60	0.54
2:C:153:HIS:NE2	2:E:153:HIS:NE2	2.54	0.54
2:O:144:ARG:O	2:O:146:GLN:N	2.40	0.54
1:A:738:LEU:O	1:A:741:THR:HG22	2.07	0.54
1:A:492:VAL:HG22	1:A:558:MET:SD	2.47	0.54
1:B:246:HIS:HD2	1:B:248:ILE:H	1.55	0.54
1:B:698:LYS:O	1:B:699:ILE:HB	2.06	0.54
2:C:106:ARG:HG2	2:C:107:ASN:H	1.71	0.54
1:B:684:LEU:O	1:B:687:MET:HG2	2.08	0.54
1:B:285:ILE:O	1:B:286:LEU:HD13	2.07	0.54
1:A:717:MET:HG3	1:A:718:TYR:H	1.71	0.54
2:G:88:PHE:O	2:G:91:PHE:HB3	2.06	0.54
1:B:451:ASP:N	1:B:452:PRO:HD3	2.22	0.54
2:M:133:SER:O	2:M:135:TYR:N	2.40	0.54
1:B:792:VAL:HG23	1:B:792:VAL:O	2.06	0.54
1:A:587:LEU:C	1:A:588:ILE:HG13	2.28	0.54
1:B:260:GLN:O	1:B:262:VAL:N	2.40	0.54
1:A:437:TYR:H	1:A:438:PRO:HD2	1.70	0.54
2:O:30:LEU:O	2:O:31:ILE:C	2.45	0.54
1:B:315:GLU:CB	1:B:571:LEU:HD11	2.37	0.54
2:E:24:TYR:O	2:E:26:ASN:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:12:LYS:C	2:F:14:ALA:N	2.60	0.54
1:A:804:SER:HB3	1:A:813:ALA:HB2	1.88	0.54
2:K:133:SER:O	2:K:135:TYR:N	2.41	0.54
1:B:333:VAL:HG11	1:B:380:LYS:HA	1.89	0.54
1:B:485:ILE:CD1	2:I:76:ASN:ND2	2.71	0.54
1:A:374:ALA:HB1	1:A:580:SER:HA	1.90	0.54
2:F:57:ARG:HH11	2:F:94:ASN:ND2	1.96	0.54
2:O:38:ILE:HG22	2:O:42:ASN:ND2	2.18	0.54
2:K:152:PHE:CD1	2:K:152:PHE:N	2.75	0.54
1:B:302:ASN:HD21	1:B:615:ASN:HB3	1.73	0.54
2:E:12:LYS:C	2:E:14:ALA:N	2.60	0.54
2:H:73:LEU:HD22	2:H:77:TYR:CD2	2.42	0.54
2:E:133:SER:O	2:E:136:ILE:HG22	2.07	0.54
1:B:387:LEU:HD23	1:B:554:TYR:CE1	2.42	0.54
1:B:442:MET:HG2	1:B:443:GLN:N	2.23	0.54
1:A:313:ASN:ND2	1:B:534:LEU:CD2	2.66	0.54
1:B:498:ARG:CZ	2:J:23:LEU:HD11	2.27	0.54
2:J:30:LEU:O	2:J:31:ILE:C	2.45	0.54
2:K:145:ARG:CD	2:L:142:GLN:O	2.36	0.54
1:B:775:ILE:HD12	1:B:775:ILE:N	2.19	0.54
2:O:158:PHE:HE2	2:O:214:LEU:HD22	1.73	0.54
2:C:133:SER:O	2:C:135:TYR:N	2.41	0.54
2:N:133:SER:O	2:N:135:TYR:N	2.41	0.54
1:B:392:MET:O	1:B:420:ILE:HG22	2.08	0.54
1:B:878:ASN:OD1	1:B:878:ASN:O	2.25	0.54
1:A:158:GLY:H	1:A:762:ALA:CB	2.14	0.54
1:A:550:LEU:O	1:A:551:ALA:C	2.45	0.54
1:A:606:VAL:O	1:A:607:ASN:C	2.44	0.54
1:A:810:TYR:O	1:A:813:ALA:N	2.41	0.54
2:G:100:MET:HG3	2:G:388:VAL:HG11	1.89	0.54
1:B:427:CYS:O	1:B:431:ILE:HG13	2.07	0.54
1:B:480:PHE:O	1:B:481:ARG:C	2.46	0.54
1:B:510:LEU:CB	1:B:540:LEU:HD13	2.38	0.54
1:B:521:MET:CB	1:B:522:PRO:CD	2.86	0.54
1:A:839:MET:C	1:A:839:MET:HE3	2.28	0.54
1:A:524:ASP:O	1:A:526:LYS:HG2	2.07	0.54
1:B:645:PHE:CD2	1:B:646:LEU:HD23	2.42	0.54
1:B:228:MET:O	1:B:228:MET:HG3	2.07	0.54
1:B:839:MET:C	1:B:839:MET:SD	2.86	0.54
1:B:118:LYS:HG2	1:B:119:GLN:N	2.23	0.54
2:D:167:ASN:ND2	2:D:178:GLY:HA2	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:158:PHE:HE2	2:C:214:LEU:HD22	1.73	0.54
2:N:129:PHE:C	2:N:129:PHE:CD1	2.80	0.54
1:A:151:LYS:O	1:A:152:LYS:HB2	2.07	0.54
1:A:613:ASN:O	1:A:617:ARG:HG2	2.08	0.54
1:A:314:PHE:O	1:A:315:GLU:C	2.45	0.54
1:A:443:GLN:NE2	1:A:521:MET:CB	2.70	0.54
1:A:263[A]:GLU:HB3	1:A:264:PRO:HD2	1.90	0.54
2:N:27:VAL:O	2:N:31:ILE:HG12	2.07	0.54
2:G:167:ASN:ND2	2:G:178:GLY:HA2	2.23	0.54
2:E:158:PHE:HE2	2:E:214:LEU:HD22	1.73	0.54
2:G:133:SER:O	2:G:135:TYR:N	2.40	0.54
2:O:9:LYS:O	2:O:13:ASP:HB2	2.08	0.54
1:B:498:ARG:CD	2:I:32:GLN:HE21	2.21	0.54
1:B:477:ASN:OD1	2:I:39:ILE:HG23	2.07	0.54
1:A:160:TYR:CZ	1:A:635:GLN:HB2	2.43	0.54
1:A:766:VAL:HG21	1:A:796:LYS:HB3	1.89	0.54
2:E:167:ASN:ND2	2:E:178:GLY:HA2	2.22	0.54
2:M:130:ASP:CG	2:N:17:LYS:HE3	2.29	0.54
2:H:158:PHE:HE2	2:H:214:LEU:HD22	1.73	0.54
2:L:158:PHE:HE2	2:L:214:LEU:HD22	1.73	0.54
2:E:73:LEU:HD22	2:E:77:TYR:CD2	2.42	0.54
2:J:9:LYS:O	2:J:13:ASP:HB2	2.08	0.54
1:A:303:LEU:HA	1:A:615:ASN:HD22	1.69	0.53
1:B:872:ASP:CG	1:B:874:MET:H	2.11	0.53
1:A:802:ILE:HA	1:A:807:ASN:ND2	2.24	0.53
1:B:811:LEU:HA	1:B:814:ASN:ND2	2.23	0.53
1:B:650:HIS:O	1:B:652:PHE:N	2.41	0.53
2:M:167:ASN:ND2	2:M:178:GLY:HA2	2.22	0.53
2:M:12:LYS:C	2:M:14:ALA:N	2.60	0.53
2:D:12:LYS:C	2:D:14:ALA:N	2.60	0.53
1:A:273:TYR:O	1:A:273:TYR:HD2	1.91	0.53
2:E:133:SER:O	2:E:135:TYR:N	2.41	0.53
2:J:100:MET:HG3	2:J:388:VAL:HG11	1.89	0.53
1:A:732:GLN:O	1:A:733:ILE:HG23	2.09	0.53
1:B:266:ASN:O	1:B:267:ASN:C	2.45	0.53
2:D:155:PRO:O	2:D:186:SER:HB3	2.09	0.53
1:B:444:ARG:HH21	1:B:520:THR:CG2	2.11	0.53
1:B:508:GLU:O	1:B:512:GLN:NE2	2.39	0.53
1:A:712:LEU:HG	1:A:819:PRO:CB	2.35	0.53
1:A:535:LEU:O	1:A:539:ARG:HG2	2.09	0.53
1:B:701:GLN:O	1:B:826:TYR:CB	2.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:27:VAL:O	2:H:31:ILE:HG12	2.07	0.53
2:K:158:PHE:HE2	2:K:214:LEU:HD22	1.73	0.53
2:F:133:SER:O	2:F:135:TYR:N	2.41	0.53
1:B:707:TYR:OH	1:B:751:LEU:HD12	2.08	0.53
2:O:215:ARG:HG3	2:O:371:ILE:O	2.09	0.53
1:A:326:TYR:CD1	1:A:384:ALA:CB	2.91	0.53
1:B:199:VAL:CG1	1:B:200:VAL:H	2.20	0.53
1:A:589:GLY:O	1:A:591:ALA:N	2.35	0.53
1:A:447:TYR:HH	1:A:458:ILE:HG23	1.72	0.53
1:B:134:TYR:CE2	1:B:803:ASN:HB2	2.43	0.53
1:A:135:ARG:O	1:A:136:ALA:C	2.46	0.53
1:B:857:PHE:HD1	1:B:857:PHE:H	1.56	0.53
2:K:167:ASN:ND2	2:K:178:GLY:HA2	2.22	0.53
1:A:786:ILE:HG23	1:A:792:VAL:CG1	2.36	0.53
2:H:12:LYS:C	2:H:14:ALA:N	2.60	0.53
2:D:130:ASP:CG	2:E:17:LYS:HE3	2.29	0.53
2:L:133:SER:O	2:L:135:TYR:N	2.41	0.53
2:D:215:ARG:HG3	2:D:371:ILE:O	2.09	0.53
1:A:311:HIS:N	1:A:311:HIS:ND1	2.55	0.53
1:A:604:TYR:O	1:A:608:VAL:HG23	2.08	0.53
1:B:511:MET:HE2	2:J:70:LEU:H	1.73	0.53
1:B:258:GLN:HG3	2:N:70:LEU:CA	2.38	0.53
1:B:803:ASN:N	1:B:807:ASN:ND2	2.57	0.53
1:A:118:LYS:CG	1:A:119:GLN:H	2.13	0.53
2:G:158:PHE:HE2	2:G:214:LEU:HD22	1.74	0.53
2:O:133:SER:O	2:O:135:TYR:N	2.42	0.53
2:C:21:GLY:O	2:C:22:THR:O	2.27	0.53
2:L:215:ARG:HG3	2:L:371:ILE:O	2.09	0.53
1:B:288:MET:HA	1:B:288:MET:CE	2.39	0.53
1:B:124:ARG:NH2	1:B:203:GLU:HB2	2.24	0.53
1:B:790:ARG:HG3	1:B:791:LYS:H	1.72	0.53
1:A:803:ASN:C	1:A:805:ASP:N	2.62	0.53
1:A:817:TRP:O	1:A:818:VAL:CB	2.56	0.53
2:L:27:VAL:O	2:L:30:LEU:N	2.42	0.53
1:B:368:THR:HG22	1:B:371:ASN:ND2	2.19	0.53
1:A:252:PHE:O	1:A:254:GLU:N	2.42	0.53
2:I:133:SER:O	2:I:135:TYR:N	2.41	0.53
2:H:133:SER:O	2:H:135:TYR:N	2.41	0.53
2:G:155:PRO:O	2:G:186:SER:HB3	2.09	0.53
1:B:556:THR:O	1:B:557:LEU:C	2.45	0.53
1:B:786:ILE:HG22	1:B:790:ARG:NH2	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:133:ILE:O	1:A:133:ILE:HG13	2.07	0.53
2:C:30:LEU:O	2:C:31:ILE:C	2.44	0.53
2:O:155:PRO:O	2:O:186:SER:HB3	2.09	0.53
2:D:9:LYS:O	2:D:13:ASP:HB2	2.08	0.53
1:B:478:ASN:C	1:B:480:PHE:H	2.12	0.53
1:B:481:ARG:HA	2:I:65:LEU:HD12	1.91	0.53
1:B:484:VAL:O	1:B:491:GLN:HA	2.09	0.53
1:B:783:PHE:O	1:B:786:ILE:HG13	2.09	0.53
1:B:485:ILE:HD12	2:I:76:ASN:HD21	1.71	0.53
1:B:363:GLU:HA	1:B:363:GLU:OE1	2.09	0.53
1:B:308:LEU:HB3	1:B:310:LEU:CD2	2.39	0.53
2:G:150:PHE:HB2	2:G:152:PHE:HE1	1.68	0.53
2:O:167:ASN:ND2	2:O:178:GLY:HA2	2.23	0.53
1:A:643:GLU:HG2	1:A:662:MET:HE3	1.90	0.53
2:C:27:VAL:O	2:C:30:LEU:N	2.42	0.53
1:B:180:TYR:CD1	1:B:180:TYR:C	2.82	0.53
1:B:378:CYS:SG	1:B:581:VAL:HA	2.49	0.53
1:A:688:ASN:O	1:A:689:MET:C	2.47	0.53
1:A:195:ASP:CG	1:A:196:ALA:H	2.12	0.53
1:A:765:PHE:CD1	1:A:765:PHE:C	2.82	0.53
2:N:167:ASN:ND2	2:N:178:GLY:HA2	2.22	0.53
2:J:158:PHE:HE2	2:J:214:LEU:HD22	1.74	0.53
2:M:155:PRO:O	2:M:186:SER:HB3	2.09	0.53
2:G:215:ARG:HG3	2:G:371:ILE:O	2.09	0.53
2:G:9:LYS:O	2:G:13:ASP:HB2	2.08	0.53
1:B:457:GLN:OE1	1:B:460:GLU:HB2	2.09	0.53
2:I:27:VAL:O	2:I:30:LEU:N	2.42	0.53
2:J:70:LEU:CD1	2:J:71:LEU:N	2.72	0.53
1:A:807:ASN:C	1:A:809:PHE:H	2.12	0.53
1:A:863:VAL:HG12	1:A:864:GLU:H	1.73	0.53
1:A:203:GLU:O	1:A:207:ILE:HG13	2.09	0.53
1:B:805:ASP:C	1:B:807:ASN:N	2.62	0.53
2:D:23:LEU:HD22	2:D:25:SER:OG	2.09	0.53
2:L:21:GLY:O	2:L:22:THR:O	2.27	0.53
2:I:21:GLY:O	2:I:22:THR:O	2.27	0.53
2:N:123:LYS:HG3	2:N:124:PHE:CD1	2.44	0.53
2:C:215:ARG:HG3	2:C:371:ILE:O	2.09	0.53
2:E:215:ARG:HG3	2:E:371:ILE:O	2.09	0.53
1:A:332:VAL:O	1:A:333:VAL:C	2.47	0.53
2:G:23:LEU:HD22	2:G:25:SER:OG	2.08	0.53
1:A:345:GLN:HG3	1:A:349:MET:HE2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:698:LYS:O	1:B:699:ILE:CB	2.56	0.53
1:A:160:TYR:CE2	1:A:635:GLN:HB2	2.44	0.53
2:I:167:ASN:ND2	2:I:178:GLY:HA2	2.23	0.53
1:A:729:GLY:C	1:A:730:PHE:CD1	2.82	0.53
2:D:145:ARG:O	2:D:146:GLN:HG3	2.09	0.53
2:O:144:ARG:C	2:O:145:ARG:HG2	2.29	0.53
2:O:53:ASN:ND2	2:O:354:ALA:HB3	2.24	0.53
1:B:326:TYR:CD1	1:B:384:ALA:CB	2.92	0.52
1:A:508:GLU:O	1:A:512:GLN:NE2	2.36	0.52
2:M:23:LEU:HD22	2:M:25:SER:OG	2.08	0.52
2:O:12:LYS:C	2:O:14:ALA:N	2.60	0.52
2:J:130:ASP:CG	2:K:17:LYS:HE3	2.29	0.52
2:M:145:ARG:O	2:M:146:GLN:HG3	2.09	0.52
2:N:158:PHE:HE2	2:N:214:LEU:HD22	1.73	0.52
2:H:215:ARG:HG3	2:H:371:ILE:O	2.09	0.52
1:B:223:ARG:O	1:B:226:ALA:HB3	2.10	0.52
1:A:540:LEU:HA	1:A:543:LEU:HB2	1.90	0.52
1:B:825:VAL:HG12	1:B:826:TYR:H	1.73	0.52
1:B:319:ASP:OD2	1:B:571:LEU:HB2	2.09	0.52
1:B:111:ILE:HG22	1:B:113:PRO:HG3	1.91	0.52
1:A:299:ILE:HG22	1:A:300:ARG:N	2.24	0.52
2:I:158:PHE:HE2	2:I:214:LEU:HD22	1.73	0.52
1:B:390:ARG:HG3	1:B:391:THR:N	2.24	0.52
1:B:466:PHE:O	1:B:467:GLN:C	2.45	0.52
1:B:497:ILE:CG1	2:I:24:TYR:OH	2.56	0.52
1:B:124:ARG:HD2	1:B:203:GLU:OE1	2.09	0.52
2:H:167:ASN:ND2	2:H:178:GLY:HA2	2.22	0.52
2:L:129:PHE:C	2:L:129:PHE:CD1	2.83	0.52
2:I:129:PHE:C	2:I:129:PHE:CD1	2.83	0.52
2:I:381:ASN:O	2:I:385:VAL:HB	2.10	0.52
2:F:21:GLY:O	2:F:22:THR:O	2.27	0.52
1:A:741:THR:HG23	1:A:743:ASP:H	1.73	0.52
2:J:215:ARG:HG3	2:J:371:ILE:O	2.09	0.52
1:B:709:ASP:HB3	1:B:820:THR:HG23	1.90	0.52
2:I:215:ARG:HG3	2:I:371:ILE:O	2.09	0.52
1:A:555:GLU:OE1	1:A:871:PHE:CD2	2.63	0.52
1:A:200:VAL:O	1:A:204:THR:OG1	2.27	0.52
2:G:145:ARG:O	2:G:146:GLN:HG3	2.09	0.52
2:I:6:SER:OG	2:I:128:ASN:HA	2.10	0.52
2:G:130:ASP:CG	2:H:17:LYS:HE3	2.29	0.52
2:F:158:PHE:HE2	2:F:214:LEU:HD22	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:106:ARG:HG3	2:L:147:ARG:HD2	1.92	0.52
2:K:123:LYS:HG3	2:K:124:PHE:CD1	2.45	0.52
1:B:419:PHE:O	1:B:420:ILE:C	2.47	0.52
1:A:777:LYS:HG2	1:A:777:LYS:O	2.10	0.52
1:A:443:GLN:HE21	1:A:521:MET:HB3	1.73	0.52
1:B:613:ASN:O	1:B:617:ARG:HG2	2.10	0.52
1:A:333:VAL:HB	1:A:380:LYS:HG2	1.91	0.52
1:B:431:ILE:HG23	1:B:435:ILE:HD12	1.92	0.52
1:B:494:ASN:CG	1:B:495:ASP:H	2.13	0.52
1:B:630:ARG:HB3	2:L:71:LEU:HD13	1.90	0.52
2:F:27:VAL:O	2:F:30:LEU:N	2.42	0.52
1:A:771:VAL:HG12	1:A:809:PHE:HB3	1.92	0.52
1:B:823:THR:CG2	1:B:824:LYS:N	2.72	0.52
1:B:224:PHE:HE2	1:B:839:MET:HG3	1.74	0.52
1:A:298:TYR:O	1:A:299:ILE:HB	2.10	0.52
1:B:563:MET:HA	1:B:563:MET:HE3	1.92	0.52
2:C:9:LYS:O	2:C:13:ASP:HB2	2.10	0.52
1:A:236:ARG:O	1:A:237:ASN:HB3	2.09	0.52
1:B:127:GLU:OE1	1:B:151:LYS:HG2	2.10	0.52
2:E:123:LYS:HG3	2:E:124:PHE:CD1	2.44	0.52
2:J:155:PRO:O	2:J:186:SER:HB3	2.09	0.52
1:A:308:LEU:O	1:A:309:ASN:C	2.47	0.52
1:A:554:TYR:CZ	1:A:558:MET:CE	2.92	0.52
1:A:492:VAL:CG1	1:A:558:MET:SD	2.97	0.52
2:O:41:MET:O	2:O:42:ASN:C	2.48	0.52
2:F:6:SER:OG	2:F:128:ASN:HA	2.10	0.52
2:F:129:PHE:C	2:F:129:PHE:CD1	2.83	0.52
2:C:381:ASN:O	2:C:385:VAL:HB	2.10	0.52
2:H:381:ASN:O	2:H:385:VAL:HB	2.10	0.52
1:B:272:ASN:C	1:B:274:ILE:N	2.63	0.52
2:M:158:PHE:HE2	2:M:214:LEU:HD22	1.74	0.52
2:N:215:ARG:HG3	2:N:371:ILE:O	2.09	0.52
2:M:9:LYS:O	2:M:13:ASP:HB2	2.08	0.52
1:A:308:LEU:HB2	1:A:614:TYR:OH	2.08	0.52
1:A:250:TYR:HB2	1:A:840:HIS:CD2	2.45	0.52
1:B:577:GLN:C	1:B:579:THR:H	2.12	0.52
1:B:587:LEU:CG	1:B:587:LEU:O	2.58	0.52
1:A:697:ASP:HB3	1:A:765:PHE:HE2	1.72	0.52
2:F:97:MET:O	2:F:101:VAL:HG13	2.10	0.52
2:I:97:MET:O	2:I:101:VAL:HG13	2.10	0.52
2:J:123:LYS:HG3	2:J:124:PHE:CD1	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:4:LEU:O	2:H:5:TYR:C	2.48	0.52
1:B:271:PHE:O	1:B:274:ILE:HB	2.10	0.52
2:D:158:PHE:HE2	2:D:214:LEU:HD22	1.74	0.52
2:F:215:ARG:HG3	2:F:371:ILE:O	2.09	0.52
1:B:822:THR:HG22	1:B:822:THR:O	2.08	0.52
1:A:384:ALA:O	1:A:385:ALA:C	2.48	0.52
1:B:498:ARG:O	1:B:502:VAL:HB	2.10	0.52
1:B:124:ARG:C	1:B:125:ILE:HG13	2.29	0.52
1:B:246:HIS:ND1	1:B:247:PRO:HD2	2.25	0.52
1:A:339:LEU:O	1:A:340:VAL:C	2.47	0.52
1:A:546:LEU:HD13	1:A:584:LEU:HD23	1.90	0.52
1:B:293:PRO:C	1:B:295:THR:N	2.63	0.52
1:B:711:GLN:HE21	1:B:818:VAL:HG11	1.75	0.52
2:O:22:THR:CG2	2:O:73:LEU:HD12	2.40	0.52
1:A:125:ILE:CD1	1:A:125:ILE:N	2.63	0.52
2:D:150:PHE:N	2:D:150:PHE:CD1	2.78	0.52
2:J:167:ASN:ND2	2:J:178:GLY:HA2	2.23	0.52
2:J:128:ASN:ND2	2:K:19:VAL:HG21	2.25	0.52
2:C:129:PHE:C	2:C:129:PHE:CD1	2.83	0.52
2:D:123:LYS:HG3	2:D:124:PHE:CD1	2.45	0.52
2:O:124:PHE:O	2:O:127:ILE:HG13	2.09	0.52
1:A:265:LEU:HB3	1:A:296:ALA:HB1	1.92	0.52
1:A:308:LEU:HB2	1:A:310:LEU:HD21	1.91	0.52
1:A:669:LEU:HA	1:A:672:LEU:HD12	1.90	0.52
1:B:548:ARG:HH11	1:B:878:ASN:N	2.05	0.52
1:B:122:LEU:HD11	1:B:200:VAL:HG12	1.92	0.52
1:B:122:LEU:HD12	1:B:124:ARG:HH21	1.75	0.52
1:A:869:VAL:HG13	1:A:873:ASN:HA	1.92	0.52
1:B:96:PRO:O	1:B:652:PHE:HB3	2.10	0.52
2:O:381:ASN:O	2:O:385:VAL:HB	2.10	0.52
2:L:381:ASN:O	2:L:385:VAL:HB	2.10	0.52
2:O:54:LEU:HD12	2:O:55:PRO:HD2	1.92	0.52
1:B:478:ASN:CG	1:B:478:ASN:O	2.47	0.51
2:G:41:MET:O	2:G:42:ASN:C	2.48	0.51
2:H:76:ASN:CB	2:J:76:ASN:CB	2.69	0.51
1:A:523:VAL:O	1:A:526:LYS:HE2	2.10	0.51
2:I:106:ARG:H	2:I:106:ARG:CD	2.12	0.51
1:A:267:ASN:N	1:A:292:LEU:HD12	2.26	0.51
2:K:151:THR:C	2:K:152:PHE:CD1	2.84	0.51
1:B:653:ASP:O	1:B:653:ASP:CG	2.47	0.51
1:B:95:ILE:HG22	1:B:97:THR:OG1	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:167:ASN:ND2	2:C:178:GLY:HA2	2.23	0.51
2:C:4:LEU:O	2:C:5:TYR:C	2.49	0.51
2:M:123:LYS:HG3	2:M:124:PHE:CD1	2.45	0.51
2:E:381:ASN:O	2:E:385:VAL:HB	2.10	0.51
2:M:215:ARG:HG3	2:M:371:ILE:O	2.09	0.51
1:A:113:PRO:CD	1:A:609:ASN:HB3	2.40	0.51
1:A:332:VAL:HG11	1:A:557:LEU:CD2	2.40	0.51
1:A:647:LYS:O	1:A:649:LEU:N	2.44	0.51
1:B:527:ARG:HH11	1:B:527:ARG:HG3	1.75	0.51
1:B:630:ARG:C	1:B:632:ASN:H	2.13	0.51
1:A:450:GLY:O	1:A:451:ASP:HB2	2.10	0.51
1:A:340:VAL:HB	1:A:587:LEU:CD2	2.40	0.51
1:A:527:ARG:HB2	1:A:527:ARG:CZ	2.39	0.51
1:A:145:ARG:HB3	1:A:147:TYR:CE1	2.41	0.51
2:I:4:LEU:O	2:I:5:TYR:C	2.49	0.51
2:H:123:LYS:HG3	2:H:124:PHE:CD1	2.44	0.51
2:K:215:ARG:HG3	2:K:371:ILE:O	2.09	0.51
2:E:109:ILE:HB	2:E:380:ASP:HB3	1.93	0.51
1:B:322:THR:HG22	1:B:390:ARG:HD3	1.93	0.51
1:B:550:LEU:O	1:B:551:ALA:C	2.48	0.51
2:K:145:ARG:CD	2:L:143:ASN:C	2.79	0.51
1:A:364:THR:HG22	1:A:364:THR:O	2.10	0.51
1:B:774:LEU:HD21	1:B:821:SER:HA	1.93	0.51
2:M:150:PHE:CD1	2:M:150:PHE:N	2.78	0.51
2:J:150:PHE:N	2:J:150:PHE:CD1	2.78	0.51
2:N:76:ASN:HB2	2:O:76:ASN:HB2	1.92	0.51
2:K:4:LEU:O	2:K:5:TYR:C	2.48	0.51
2:M:360:VAL:O	2:M:378:ARG:HD3	2.11	0.51
2:L:9:LYS:O	2:L:13:ASP:HB2	2.10	0.51
1:A:834:ASP:O	1:A:838:SER:HB2	2.09	0.51
1:A:392:MET:O	1:A:420:ILE:HG23	2.08	0.51
1:B:513:LEU:CA	1:B:516:GLN:OE1	2.58	0.51
1:A:548:ARG:HH11	1:A:877:MET:H	1.56	0.51
1:B:135:ARG:O	1:B:138:GLY:N	2.38	0.51
1:B:812:VAL:HG13	1:B:813:ALA:H	1.75	0.51
1:B:170:TYR:CE1	1:B:682:PHE:HB2	2.46	0.51
1:A:141:GLU:O	1:A:142:LEU:HB2	2.09	0.51
1:B:286:LEU:O	1:B:287:ASN:ND2	2.44	0.51
1:B:94:THR:HG23	1:B:658:PRO:HG2	1.91	0.51
1:A:718:TYR:C	1:A:719:GLY:O	2.45	0.51
2:G:128:ASN:ND2	2:H:19:VAL:HG21	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:6:SER:OG	2:L:128:ASN:HA	2.10	0.51
2:C:6:SER:OG	2:C:128:ASN:HA	2.10	0.51
2:L:97:MET:O	2:L:101:VAL:HG13	2.10	0.51
2:K:381:ASN:O	2:K:385:VAL:HB	2.10	0.51
2:J:145:ARG:O	2:J:146:GLN:HG3	2.09	0.51
1:A:127:GLU:HB3	1:A:151:LYS:HE3	1.93	0.51
2:H:9:LYS:O	2:H:13:ASP:HB2	2.11	0.51
1:A:314:PHE:N	1:A:314:PHE:CD1	2.79	0.51
1:B:428:GLN:OE1	1:B:456:PHE:CB	2.46	0.51
1:B:457:GLN:HB2	1:B:476:ASN:OD1	2.11	0.51
1:A:465:ASN:HB3	1:A:468:VAL:HB	1.92	0.51
1:A:473:HIS:HE1	2:G:24:TYR:CD2	2.18	0.51
1:A:408:MET:HB3	1:A:471:TRP:CZ2	2.46	0.51
1:A:494:ASN:CG	1:A:495:ASP:N	2.63	0.51
1:A:368:THR:HG22	1:A:368:THR:O	2.11	0.51
2:G:152:PHE:N	2:G:152:PHE:CD1	2.78	0.51
2:E:151:THR:C	2:E:152:PHE:CD1	2.84	0.51
2:N:151:THR:C	2:N:152:PHE:CD1	2.84	0.51
1:B:603:TYR:O	1:B:606:VAL:CG2	2.56	0.51
2:J:12:LYS:C	2:J:14:ALA:N	2.60	0.51
2:M:381:ASN:O	2:M:385:VAL:HB	2.10	0.51
2:J:360:VAL:O	2:J:378:ARG:HD3	2.11	0.51
2:F:9:LYS:O	2:F:13:ASP:HB2	2.10	0.51
2:G:360:VAL:O	2:G:378:ARG:HD3	2.11	0.51
1:A:467:GLN:HB2	1:A:515:ARG:HD2	1.91	0.51
2:H:109:ILE:HB	2:H:380:ASP:HB3	1.93	0.51
1:B:322:THR:HG21	1:B:390:ARG:HA	1.93	0.51
1:A:371:ASN:HA	1:A:374:ALA:CB	2.31	0.51
2:I:12:LYS:O	2:I:14:ALA:N	2.44	0.51
2:C:97:MET:O	2:C:101:VAL:HG13	2.10	0.51
2:F:131:ASN:HD22	2:F:131:ASN:N	2.09	0.51
2:K:109:ILE:HB	2:K:380:ASP:HB3	1.93	0.51
1:B:422:GLU:O	1:B:425:VAL:HB	2.10	0.51
1:B:506:LEU:HD21	1:B:543:LEU:C	2.31	0.51
2:J:41:MET:O	2:J:42:ASN:C	2.48	0.51
1:A:779:ASP:HA	1:A:798:ILE:HD12	1.90	0.51
1:A:401:TYR:HA	1:A:404:LEU:HD13	1.93	0.51
1:A:863:VAL:HG12	1:A:864:GLU:N	2.25	0.51
2:D:152:PHE:CD1	2:D:152:PHE:N	2.78	0.51
2:J:4:LEU:O	2:J:5:TYR:C	2.49	0.51
2:D:128:ASN:ND2	2:E:19:VAL:HG21	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:131:ASN:HD22	2:I:131:ASN:N	2.09	0.51
2:K:8:SER:C	2:K:10:THR:N	2.64	0.51
2:D:381:ASN:O	2:D:385:VAL:HB	2.10	0.51
2:F:381:ASN:O	2:F:385:VAL:HB	2.10	0.51
1:B:676:VAL:O	1:B:680:ASP:HB2	2.11	0.51
1:A:326:TYR:CE1	1:A:384:ALA:HB3	2.46	0.51
1:B:462:GLN:HB2	2:H:64:GLY:HA2	1.92	0.51
1:B:462:GLN:CA	2:H:64:GLY:HA3	2.18	0.51
1:B:194:ARG:NH1	1:B:194:ARG:HA	2.25	0.51
1:B:745:ALA:CB	1:B:748:THR:HB	2.29	0.51
1:A:769:SER:O	1:A:771:VAL:N	2.43	0.51
1:A:535:LEU:O	1:A:539:ARG:CG	2.59	0.51
1:B:699:ILE:N	1:B:699:ILE:HD13	2.25	0.51
1:B:170:TYR:CE1	1:B:681:ILE:CG2	2.94	0.51
2:M:128:ASN:ND2	2:N:19:VAL:HG21	2.25	0.51
2:M:4:LEU:O	2:M:5:TYR:C	2.49	0.51
2:L:12:LYS:O	2:L:14:ALA:N	2.44	0.51
2:N:8:SER:C	2:N:10:THR:N	2.64	0.51
2:O:123:LYS:HG3	2:O:124:PHE:CD1	2.45	0.51
2:C:360:VAL:O	2:C:378:ARG:HD3	2.11	0.51
2:I:9:LYS:O	2:I:13:ASP:HB2	2.10	0.51
1:A:415:PRO:HB3	1:A:479:GLN:HA	1.93	0.51
1:B:502:VAL:HG12	1:B:504:ASN:ND2	2.26	0.51
1:B:506:LEU:HD23	1:B:544:VAL:CA	2.39	0.51
1:B:511:MET:HE2	2:J:70:LEU:N	2.25	0.51
1:A:428:GLN:NE2	1:A:455:PRO:HD2	2.25	0.51
2:I:106:ARG:HD3	2:I:106:ARG:N	2.14	0.51
2:D:41:MET:O	2:D:42:ASN:C	2.48	0.51
2:M:41:MET:O	2:M:42:ASN:C	2.48	0.51
1:A:180:TYR:HD1	1:A:181:LEU:N	2.09	0.51
1:A:127:GLU:OE2	1:A:151:LYS:HG2	2.11	0.51
2:K:360:VAL:O	2:K:378:ARG:HD3	2.11	0.51
2:E:9:LYS:O	2:E:13:ASP:HB2	2.11	0.51
1:A:311:HIS:HD1	1:A:318:TRP:HE1	1.58	0.51
1:A:322:THR:O	1:A:323:THR:C	2.50	0.51
1:B:392:MET:HA	1:B:573:THR:HG23	1.93	0.51
1:B:122:LEU:HD21	1:B:200:VAL:CG1	2.40	0.51
1:A:725:ARG:HB3	1:A:828:GLN:OE1	2.11	0.51
2:D:70:LEU:CD1	2:D:71:LEU:N	2.72	0.51
2:J:152:PHE:CD1	2:J:152:PHE:N	2.78	0.51
2:H:8:SER:C	2:H:10:THR:N	2.64	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:12:LYS:O	2:F:14:ALA:N	2.44	0.51
2:G:381:ASN:O	2:G:385:VAL:HB	2.10	0.51
2:K:9:LYS:O	2:K:13:ASP:HB2	2.10	0.51
2:F:360:VAL:O	2:F:378:ARG:HD3	2.11	0.51
2:I:360:VAL:O	2:I:378:ARG:HD3	2.11	0.51
1:A:643:GLU:HG2	1:A:662:MET:CE	2.41	0.50
1:B:282:VAL:HG13	1:B:283:ASN:N	2.20	0.50
1:B:322:THR:O	1:B:323:THR:C	2.49	0.50
1:B:874:MET:O	1:B:875:ARG:CB	2.52	0.50
1:A:157:ASP:OD1	1:A:764:PRO:HG3	2.10	0.50
1:A:710:MET:HE1	1:A:824:LYS:HE2	1.93	0.50
1:A:443:GLN:O	1:A:445:MET:N	2.44	0.50
1:B:596:SER:O	1:B:597:PRO:C	2.49	0.50
2:G:123:LYS:HG3	2:G:124:PHE:CD1	2.45	0.50
2:E:12:LYS:O	2:E:14:ALA:N	2.44	0.50
2:N:109:ILE:HB	2:N:380:ASP:HB3	1.93	0.50
1:B:527:ARG:CZ	1:B:527:ARG:HB2	2.41	0.50
1:B:305:GLN:NE2	1:B:564:ASN:CG	2.65	0.50
2:M:70:LEU:CD1	2:M:71:LEU:N	2.72	0.50
2:C:143:ASN:HA	2:N:145:ARG:HD3	1.94	0.50
1:A:512:GLN:O	1:A:516:GLN:NE2	2.44	0.50
1:B:722:ASN:HB2	1:B:824:LYS:HB3	1.93	0.50
1:B:375:ALA:HB1	1:B:584:LEU:HD12	1.92	0.50
1:B:449:ASN:HD21	1:B:455:PRO:HG3	1.76	0.50
2:G:4:LEU:O	2:G:5:TYR:C	2.49	0.50
2:M:8:SER:C	2:M:10:THR:N	2.65	0.50
2:D:8:SER:C	2:D:10:THR:N	2.65	0.50
2:J:381:ASN:O	2:J:385:VAL:HB	2.10	0.50
2:K:253:ILE:HD13	2:K:319:THR:HB	1.93	0.50
2:E:253:ILE:HD13	2:E:319:THR:HB	1.93	0.50
1:B:393:SER:N	1:B:573:THR:CG2	2.74	0.50
1:B:503:ILE:O	1:B:504:ASN:C	2.49	0.50
2:G:70:LEU:CD1	2:G:71:LEU:N	2.72	0.50
1:A:548:ARG:HH11	1:A:877:MET:CA	2.24	0.50
1:A:428:GLN:OE1	1:A:456:PHE:HD1	1.94	0.50
1:B:638:MET:CE	1:B:666:ARG:HH12	2.23	0.50
1:B:583:SER:O	1:B:587:LEU:HB3	2.11	0.50
1:A:602:HIS:O	1:A:606:VAL:HG22	2.10	0.50
2:E:150:PHE:CD1	2:E:150:PHE:N	2.80	0.50
2:H:151:THR:C	2:H:152:PHE:CD1	2.84	0.50
1:B:89:GLU:C	1:B:91:LEU:N	2.64	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:131:ASN:HD22	2:L:131:ASN:N	2.09	0.50
2:N:381:ASN:O	2:N:385:VAL:HB	2.10	0.50
2:C:54:LEU:HD12	2:C:55:PRO:CD	2.42	0.50
2:G:148:THR:OG1	2:G:332:GLU:HG2	2.12	0.50
2:E:148:THR:OG1	2:E:332:GLU:HG2	2.12	0.50
1:A:464:GLN:O	1:A:465:ASN:HB2	2.10	0.50
1:B:190:ASN:HB3	1:B:197:GLY:O	2.11	0.50
1:A:817:TRP:O	1:A:818:VAL:HB	2.11	0.50
2:O:106:ARG:HD3	2:O:106:ARG:N	2.21	0.50
1:A:192:ASN:O	1:A:193:SER:CB	2.55	0.50
2:M:152:PHE:CD1	2:M:152:PHE:N	2.78	0.50
2:D:4:LEU:O	2:D:5:TYR:C	2.49	0.50
2:N:12:LYS:O	2:N:14:ALA:N	2.45	0.50
1:B:140:LYS:C	1:B:142:LEU:H	2.13	0.50
2:M:148:THR:OG1	2:M:332:GLU:HG2	2.11	0.50
2:J:253:ILE:HD13	2:J:319:THR:HB	1.93	0.50
1:A:666:ARG:HA	1:A:669:LEU:HD12	1.94	0.50
1:B:535:LEU:O	1:B:539:ARG:HG2	2.11	0.50
1:B:543:LEU:HD23	1:B:546:LEU:HD12	1.93	0.50
1:A:539:ARG:NE	1:A:586:MET:O	2.45	0.50
1:A:130:GLN:NE2	1:A:146:TRP:CZ2	2.79	0.50
1:B:717:MET:CE	1:B:830:PRO:HD2	2.41	0.50
1:B:654:VAL:C	1:B:657:VAL:HG23	2.32	0.50
2:O:125:LYS:C	2:O:127:ILE:H	2.15	0.50
2:L:253:ILE:HD13	2:L:319:THR:HB	1.93	0.50
2:D:253:ILE:HD13	2:D:319:THR:HB	1.93	0.50
1:B:548:ARG:O	1:B:551:ALA:HB3	2.12	0.50
1:B:122:LEU:HD11	1:B:200:VAL:CG1	2.41	0.50
1:B:845:ASN:HB3	1:B:848:PHE:HE1	1.77	0.50
2:N:150:PHE:N	2:N:150:PHE:CD1	2.80	0.50
1:B:596:SER:O	1:B:599:THR:HB	2.12	0.50
2:E:8:SER:C	2:E:10:THR:N	2.64	0.50
2:K:12:LYS:O	2:K:14:ALA:N	2.45	0.50
2:I:54:LEU:HD12	2:I:55:PRO:CD	2.42	0.50
2:O:100:MET:HG3	2:O:388:VAL:CG1	2.41	0.50
2:L:360:VAL:O	2:L:378:ARG:HD3	2.11	0.50
1:A:214:ASP:O	1:A:215:GLU:C	2.49	0.50
2:N:253:ILE:HD13	2:N:319:THR:HB	1.93	0.50
2:N:9:LYS:O	2:N:13:ASP:HB2	2.11	0.50
1:A:745:ALA:HA	1:A:748:THR:HB	1.94	0.50
2:H:69:THR:O	2:H:70:LEU:CB	2.52	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:194:ARG:HA	1:B:194:ARG:HH11	1.77	0.50
1:A:510:LEU:HD22	1:A:540:LEU:HD13	1.94	0.50
1:B:180:TYR:CE2	1:B:850:VAL:CG2	2.86	0.50
2:I:152:PHE:N	2:I:152:PHE:CD1	2.80	0.50
2:F:152:PHE:CD1	2:F:152:PHE:N	2.80	0.50
1:B:166:PHE:HE2	1:B:692:ILE:HD12	1.76	0.50
1:A:694:ARG:HD2	1:A:828:GLN:CG	2.41	0.50
2:G:150:PHE:N	2:G:150:PHE:CD1	2.78	0.50
2:C:12:LYS:O	2:C:14:ALA:N	2.44	0.50
2:E:4:LEU:O	2:E:5:TYR:C	2.48	0.50
1:A:271:PHE:O	1:A:274:ILE:HD12	2.12	0.50
2:F:4:LEU:O	2:F:5:TYR:C	2.49	0.50
2:D:360:VAL:O	2:D:378:ARG:HD3	2.11	0.50
2:H:253:ILE:HD13	2:H:319:THR:HB	1.93	0.50
1:B:305:GLN:OE1	1:B:305:GLN:HA	2.12	0.50
1:A:510:LEU:HD11	1:A:537:SER:CB	2.42	0.50
1:A:369:GLY:O	1:A:370:ILE:C	2.49	0.50
1:B:771:VAL:CG2	1:B:809:PHE:O	2.59	0.50
1:A:434:THR:C	1:A:438:PRO:HG3	2.32	0.50
1:A:434:THR:CG2	1:A:434:THR:O	2.59	0.50
2:O:12:LYS:O	2:O:14:ALA:N	2.45	0.50
2:D:12:LYS:O	2:D:14:ALA:N	2.45	0.50
2:O:253:ILE:HD13	2:O:319:THR:HB	1.93	0.50
1:A:391:THR:O	1:A:573:THR:HA	2.12	0.50
1:A:661:GLN:HE21	1:B:348:LYS:HZ1	1.59	0.50
1:B:494:ASN:OD1	2:I:69:THR:CB	2.59	0.50
1:B:510:LEU:HD11	1:B:537:SER:CA	2.42	0.50
1:B:513:LEU:HA	1:B:516:GLN:HE22	1.74	0.50
2:I:76:ASN:HB2	2:M:76:ASN:HB3	1.93	0.50
1:A:452:PRO:O	1:A:453:GLN:OE1	2.30	0.50
1:A:548:ARG:HH11	1:A:877:MET:HA	1.77	0.50
1:B:699:ILE:HD12	1:B:763:LEU:O	2.12	0.50
2:C:152:PHE:N	2:C:152:PHE:CD1	2.80	0.50
2:G:12:LYS:O	2:G:14:ALA:N	2.45	0.50
2:H:12:LYS:O	2:H:14:ALA:N	2.44	0.50
2:N:4:LEU:O	2:N:5:TYR:C	2.48	0.50
1:A:348:LYS:O	1:A:351:GLN:HB2	2.12	0.50
1:A:744:TYR:C	1:A:746:GLN:N	2.64	0.50
2:H:360:VAL:O	2:H:378:ARG:HD3	2.11	0.50
2:M:253:ILE:HD13	2:M:319:THR:HB	1.93	0.50
1:A:390:ARG:HG3	1:A:391:THR:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:305:GLN:CG	1:B:564:ASN:HD21	2.25	0.49
1:B:462:GLN:O	2:H:64:GLY:HA2	2.10	0.49
1:A:763:LEU:HD23	1:A:764:PRO:CD	2.42	0.49
1:A:545:ASP:O	1:A:546:LEU:C	2.49	0.49
1:A:546:LEU:HD21	1:A:588:ILE:HD12	1.91	0.49
1:B:702:GLY:O	1:B:825:VAL:HG13	2.12	0.49
1:B:371:ASN:HD22	1:B:583:SER:CB	2.19	0.49
1:A:178:PRO:CD	1:A:256:PHE:HE2	2.24	0.49
2:L:8:SER:C	2:L:10:THR:N	2.65	0.49
2:L:54:LEU:HD12	2:L:55:PRO:CD	2.42	0.49
1:B:708:ARG:O	1:B:709:ASP:C	2.49	0.49
2:N:360:VAL:O	2:N:378:ARG:HD3	2.11	0.49
1:A:659:ASP:O	1:A:660:ASP:O	2.30	0.49
1:B:875:ARG:CD	1:B:878:ASN:ND2	2.75	0.49
1:A:817:TRP:CZ3	1:A:819:PRO:HA	2.47	0.49
1:A:503:ILE:HA	1:A:505:GLN:HG2	1.93	0.49
1:A:545:ASP:HA	1:A:548:ARG:CD	2.41	0.49
2:K:150:PHE:CD1	2:K:150:PHE:N	2.80	0.49
1:B:602:HIS:O	1:B:606:VAL:HG22	2.12	0.49
2:L:14:ALA:C	2:L:16:ASP:H	2.15	0.49
2:I:8:SER:C	2:I:10:THR:N	2.65	0.49
2:E:360:VAL:O	2:E:378:ARG:HD3	2.11	0.49
1:B:384:ALA:O	1:B:385:ALA:C	2.48	0.49
1:A:313:ASN:HA	1:B:534:LEU:HD21	1.92	0.49
1:A:629:ASN:C	1:A:631:LEU:N	2.62	0.49
2:J:12:LYS:O	2:J:14:ALA:N	2.45	0.49
2:G:8:SER:C	2:G:10:THR:N	2.65	0.49
2:M:12:LYS:O	2:M:14:ALA:N	2.45	0.49
2:C:14:ALA:C	2:C:16:ASP:H	2.16	0.49
2:F:8:SER:C	2:F:10:THR:N	2.65	0.49
1:B:835:PHE:O	1:B:836:ARG:C	2.50	0.49
2:O:65:LEU:O	2:O:66:LEU:HD23	2.12	0.49
2:N:148:THR:OG1	2:N:332:GLU:HG2	2.11	0.49
2:C:253:ILE:HD13	2:C:319:THR:HB	1.93	0.49
1:B:326:TYR:CE1	1:B:384:ALA:HB3	2.48	0.49
1:B:457:GLN:CG	1:B:458:ILE:N	2.74	0.49
1:B:499:ASP:N	1:B:505:GLN:HE21	2.11	0.49
1:B:190:ASN:O	1:B:190:ASN:CG	2.48	0.49
1:A:410:LEU:O	1:A:413:VAL:N	2.45	0.49
2:L:152:PHE:N	2:L:152:PHE:CD1	2.80	0.49
2:F:253:ILE:HD13	2:F:319:THR:HB	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:155:PRO:O	2:K:186:SER:HB3	2.12	0.49
2:E:155:PRO:O	2:E:186:SER:HB3	2.12	0.49
2:J:148:THR:OG1	2:J:332:GLU:HG2	2.12	0.49
1:B:108:LEU:C	1:B:110:ASP:N	2.66	0.49
1:B:401:TYR:HA	1:B:404:LEU:HD13	1.94	0.49
1:B:434:THR:O	1:B:435:ILE:HG12	2.12	0.49
1:B:537:SER:O	1:B:540:LEU:CB	2.51	0.49
1:A:542:GLN:O	1:A:545:ASP:HB2	2.12	0.49
1:A:197:GLY:O	1:A:198:LYS:O	2.29	0.49
1:B:94:THR:O	1:B:94:THR:HG22	2.12	0.49
1:A:601:PHE:CD1	1:A:601:PHE:N	2.80	0.49
2:C:8:SER:C	2:C:10:THR:N	2.65	0.49
1:A:814:ASN:O	1:A:815:TYR:C	2.50	0.49
2:L:155:PRO:O	2:L:186:SER:HB3	2.13	0.49
2:H:155:PRO:O	2:H:186:SER:HB3	2.12	0.49
2:O:360:VAL:O	2:O:378:ARG:HD3	2.11	0.49
1:B:458:ILE:HD12	1:B:458:ILE:C	2.33	0.49
1:B:477:ASN:ND2	2:I:39:ILE:HG23	2.18	0.49
1:B:383:ILE:HD11	1:B:550:LEU:HD22	1.94	0.49
1:B:498:ARG:CD	2:I:32:GLN:NE2	2.75	0.49
1:B:791:LYS:C	1:B:792:VAL:HG13	2.33	0.49
1:A:513:LEU:O	1:A:516:GLN:OE1	2.30	0.49
1:B:409:TRP:CH2	1:B:413:VAL:HG21	2.48	0.49
1:A:263[B]:GLU:HB3	1:A:264:PRO:CD	2.42	0.49
2:H:41:MET:O	2:H:42:ASN:C	2.51	0.49
2:G:1:MET:O	2:G:2:ASP:C	2.51	0.49
1:A:804:SER:HB2	1:A:810:TYR:CB	2.43	0.49
2:O:53:ASN:HD22	2:O:354:ALA:HB3	1.76	0.49
1:A:237:ASN:OD1	1:A:237:ASN:O	2.29	0.49
2:I:253:ILE:HD13	2:I:319:THR:HB	1.94	0.49
2:K:148:THR:OG1	2:K:332:GLU:HG2	2.12	0.49
1:A:329:ALA:O	1:A:333:VAL:HG23	2.13	0.49
1:B:510:LEU:HD11	1:B:537:SER:HA	1.95	0.49
2:K:145:ARG:HD2	2:L:143:ASN:N	2.28	0.49
1:A:790:ARG:NH2	1:B:287:ASN:HB3	2.28	0.49
1:A:434:THR:HG22	1:A:434:THR:O	2.13	0.49
2:O:8:SER:C	2:O:10:THR:N	2.64	0.49
1:A:147:TYR:CD1	1:A:147:TYR:N	2.81	0.49
2:G:124:PHE:O	2:G:127:ILE:HG13	2.13	0.49
1:A:179:ASP:HA	1:A:677:ARG:NH2	2.27	0.49
1:B:707:TYR:N	1:B:707:TYR:CD1	2.80	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:78:VAL:O	2:H:81:ALA:N	2.41	0.49
1:B:752:LEU:C	1:B:754:ASN:H	2.16	0.49
1:A:311:HIS:HA	1:A:318:TRP:CD1	2.48	0.49
1:B:433:ASN:O	1:B:435:ILE:N	2.46	0.49
1:B:437:TYR:CE2	1:B:443:GLN:HB2	2.48	0.49
1:A:817:TRP:O	1:A:818:VAL:CG2	2.60	0.49
2:H:24:TYR:C	2:H:26:ASN:H	2.16	0.49
2:O:4:LEU:O	2:O:5:TYR:C	2.50	0.49
2:G:8:SER:O	2:G:10:THR:N	2.46	0.49
1:A:454:THR:HB	1:A:457:GLN:OE1	2.12	0.49
2:K:78:VAL:O	2:K:81:ALA:N	2.41	0.49
1:A:634:TYR:HB2	1:B:875:ARG:NH2	2.27	0.49
1:A:774:LEU:HD12	1:A:774:LEU:O	2.13	0.49
1:A:499:ASP:N	1:A:505:GLN:HE21	2.10	0.49
1:B:580:SER:O	1:B:581:VAL:C	2.51	0.49
1:B:605:ASN:HD21	1:B:855:LEU:HD12	1.78	0.49
2:N:24:TYR:C	2:N:26:ASN:H	2.16	0.49
2:N:41:MET:O	2:N:42:ASN:C	2.51	0.49
2:E:41:MET:O	2:E:42:ASN:C	2.51	0.49
1:B:92:GLN:HA	1:B:95:ILE:HD12	1.95	0.49
2:J:1:MET:O	2:J:2:ASP:C	2.51	0.49
2:J:8:SER:O	2:J:10:THR:N	2.46	0.49
2:D:8:SER:O	2:D:10:THR:N	2.46	0.49
2:I:14:ALA:C	2:I:16:ASP:H	2.15	0.49
2:G:253:ILE:HD13	2:G:319:THR:HB	1.93	0.49
2:N:155:PRO:O	2:N:186:SER:HB3	2.12	0.49
2:D:148:THR:OG1	2:D:332:GLU:HG2	2.11	0.49
2:E:141:LEU:O	2:E:146:GLN:HB2	2.13	0.49
1:B:404:LEU:O	1:B:405:ILE:C	2.52	0.49
1:B:466:PHE:CZ	2:H:80:THR:HG22	2.39	0.49
1:B:784:ALA:O	1:B:785:GLN:C	2.52	0.49
1:A:434:THR:CA	1:A:438:PRO:HG3	2.43	0.49
2:L:4:LEU:O	2:L:5:TYR:C	2.49	0.49
2:E:8:SER:O	2:E:10:THR:N	2.46	0.49
2:K:8:SER:O	2:K:10:THR:N	2.46	0.49
2:K:14:ALA:C	2:K:16:ASP:H	2.16	0.49
2:N:8:SER:O	2:N:10:THR:N	2.46	0.49
2:F:54:LEU:HD12	2:F:55:PRO:CD	2.42	0.49
1:B:298:TYR:C	1:B:298:TYR:CD1	2.86	0.49
2:F:78:VAL:O	2:F:81:ALA:N	2.42	0.49
1:B:481:ARG:CZ	1:B:496:ASN:ND2	2.76	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:498:ARG:HH11	1:B:502:VAL:HG11	1.78	0.48
1:B:501:HIS:C	1:B:503:ILE:HG13	2.33	0.48
1:B:192:ASN:O	1:B:193:SER:CB	2.60	0.48
2:J:124:PHE:O	2:J:127:ILE:HG13	2.13	0.48
2:H:148:THR:OG1	2:H:332:GLU:HG2	2.12	0.48
2:K:141:LEU:O	2:K:146:GLN:HB2	2.13	0.48
2:C:155:PRO:O	2:C:186:SER:HB3	2.13	0.48
1:A:652:PHE:CD1	1:A:652:PHE:N	2.81	0.48
1:A:304:LEU:H	1:A:615:ASN:ND2	2.11	0.48
1:B:480:PHE:O	1:B:482:GLN:N	2.46	0.48
1:A:451:ASP:CG	1:B:522:PRO:HG3	2.34	0.48
1:A:513:LEU:HA	1:A:516:GLN:CD	2.33	0.48
1:A:697:ASP:C	1:A:699:ILE:H	2.16	0.48
1:B:757:VAL:HG12	1:B:758:ALA:N	2.28	0.48
1:B:399:THR:O	1:B:401:TYR:N	2.45	0.48
2:J:23:LEU:HD22	2:J:25:SER:OG	2.09	0.48
1:A:396:PHE:CB	1:A:578:LEU:HD12	2.38	0.48
1:A:499:ASP:N	1:A:505:GLN:NE2	2.61	0.48
1:A:506:LEU:CD2	1:A:544:VAL:CA	2.86	0.48
2:K:24:TYR:C	2:K:26:ASN:H	2.16	0.48
2:O:8:SER:O	2:O:10:THR:N	2.46	0.48
2:C:131:ASN:HD22	2:C:131:ASN:N	2.09	0.48
2:D:124:PHE:O	2:D:127:ILE:HG13	2.13	0.48
1:B:436:ILE:HG13	1:B:437:TYR:N	2.25	0.48
1:A:807:ASN:C	1:A:809:PHE:N	2.66	0.48
1:A:404:LEU:O	1:A:405:ILE:C	2.50	0.48
2:O:6:SER:O	2:O:8:SER:N	2.47	0.48
2:I:155:PRO:O	2:I:186:SER:HB3	2.13	0.48
1:B:801:LYS:HG2	1:B:801:LYS:O	2.13	0.48
1:B:418:MET:O	1:B:419:PHE:CD1	2.61	0.48
1:B:504:ASN:O	1:B:505:GLN:C	2.51	0.48
1:B:484:VAL:CG1	2:I:69:THR:OG1	2.61	0.48
1:B:122:LEU:HG	1:B:201:ASP:CB	2.44	0.48
1:A:158:GLY:N	1:A:762:ALA:HB3	2.17	0.48
1:A:503:ILE:CD1	1:A:547:THR:HB	2.41	0.48
1:A:527:ARG:O	1:A:531:ARG:CG	2.61	0.48
1:B:803:ASN:H	1:B:807:ASN:ND2	2.11	0.48
2:M:8:SER:O	2:M:10:THR:N	2.46	0.48
2:E:14:ALA:C	2:E:16:ASP:H	2.16	0.48
2:H:8:SER:O	2:H:10:THR:N	2.46	0.48
1:A:338:GLU:O	1:A:338:GLU:HG3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:709:ASP:HB3	1:A:820:THR:HG23	1.94	0.48
1:A:876:ILE:O	1:A:877:MET:CB	2.61	0.48
1:A:785:GLN:O	1:A:787:VAL:N	2.46	0.48
2:M:124:PHE:O	2:M:127:ILE:HG13	2.13	0.48
2:L:346:VAL:CG2	2:L:385:VAL:HG13	2.44	0.48
2:O:135:TYR:OH	2:O:340:GLU:OE1	2.30	0.48
1:A:744:TYR:C	1:A:746:GLN:H	2.16	0.48
2:H:141:LEU:O	2:H:146:GLN:HB2	2.13	0.48
1:A:847:THR:O	1:A:847:THR:HG22	2.12	0.48
1:A:570:THR:CG2	1:A:571:LEU:H	2.23	0.48
1:A:614:TYR:O	1:A:618:ILE:HG12	2.14	0.48
1:B:630:ARG:HB2	2:L:71:LEU:CB	2.36	0.48
1:A:822:THR:O	1:A:823:THR:HG23	2.14	0.48
1:A:524:ASP:C	1:A:526:LYS:N	2.66	0.48
1:B:829:VAL:HG12	1:B:830:PRO:O	2.14	0.48
1:B:577:GLN:O	1:B:579:THR:N	2.46	0.48
1:B:570:THR:HG22	1:B:571:LEU:N	2.29	0.48
2:N:14:ALA:C	2:N:16:ASP:H	2.16	0.48
2:F:14:ALA:C	2:F:16:ASP:H	2.15	0.48
2:O:152:PHE:CD1	2:O:152:PHE:N	2.81	0.48
1:B:450:GLY:O	1:B:451:ASP:HB2	2.12	0.48
1:A:238:VAL:HG12	1:A:239:VAL:N	2.29	0.48
1:B:457:GLN:C	1:B:459:ALA:N	2.67	0.48
1:B:500:GLY:HA3	1:B:871:PHE:CZ	2.47	0.48
2:G:37:MET:O	2:G:38:ILE:C	2.52	0.48
1:B:190:ASN:HB2	1:B:199:VAL:HG23	1.96	0.48
1:B:258:GLN:HG3	2:N:70:LEU:HA	1.95	0.48
1:A:503:ILE:O	1:A:505:GLN:N	2.46	0.48
1:B:244:ILE:HD12	1:B:838:SER:C	2.33	0.48
2:M:37:MET:O	2:M:38:ILE:C	2.52	0.48
2:K:41:MET:O	2:K:42:ASN:C	2.51	0.48
2:O:1:MET:O	2:O:2:ASP:C	2.52	0.48
1:A:289:ASP:C	1:A:290:ARG:HG2	2.33	0.48
2:G:61:PHE:N	2:G:61:PHE:CD1	2.82	0.48
1:A:111:ILE:O	1:A:113:PRO:HD3	2.14	0.48
1:A:802:ILE:HA	1:A:807:ASN:HD21	1.77	0.48
2:D:37:MET:O	2:D:38:ILE:C	2.52	0.48
2:H:150:PHE:N	2:H:150:PHE:CD1	2.80	0.48
1:B:614:TYR:O	1:B:618:ILE:HG12	2.14	0.48
1:B:655:ALA:C	1:B:657:VAL:H	2.17	0.48
2:J:8:SER:C	2:J:10:THR:N	2.65	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:6:SER:O	2:N:8:SER:N	2.47	0.48
1:A:745:ALA:HA	1:A:748:THR:CB	2.44	0.48
2:H:99:GLU:HG3	2:H:99:GLU:O	2.14	0.48
2:F:155:PRO:O	2:F:186:SER:HB3	2.13	0.48
2:D:61:PHE:N	2:D:61:PHE:CD1	2.82	0.48
1:A:329:ALA:HB3	1:A:384:ALA:CB	2.44	0.48
1:B:444:ARG:NH2	1:B:520:THR:HA	2.29	0.48
1:A:122:LEU:HD11	1:A:200:VAL:CG1	2.32	0.48
1:B:638:MET:CE	1:B:666:ARG:NH1	2.77	0.48
2:O:23:LEU:HD23	2:O:24:TYR:CA	2.44	0.48
1:A:125:ILE:HB	1:A:126:PHE:CD2	2.49	0.48
1:B:583:SER:O	1:B:584:LEU:C	2.52	0.48
1:A:142:LEU:O	1:A:143:ARG:HG2	2.13	0.48
2:O:14:ALA:C	2:O:16:ASP:H	2.16	0.48
2:M:14:ALA:C	2:M:16:ASP:H	2.17	0.48
2:E:6:SER:O	2:E:8:SER:N	2.47	0.48
2:K:6:SER:O	2:K:8:SER:N	2.47	0.48
2:D:110:ALA:HB1	2:D:111:PRO:CD	2.44	0.48
2:N:346:VAL:CG2	2:N:385:VAL:HG13	2.44	0.48
2:I:153:HIS:NE2	2:J:153:HIS:NE2	2.62	0.48
2:N:99:GLU:O	2:N:99:GLU:HG3	2.14	0.48
2:N:139:TRP:C	2:N:139:TRP:CD1	2.88	0.48
1:B:499:ASP:N	1:B:505:GLN:NE2	2.61	0.47
1:B:508:GLU:OE2	2:J:71:LEU:O	2.32	0.47
1:B:498:ARG:HD3	2:I:32:GLN:HE21	1.79	0.47
1:B:199:VAL:HG12	1:B:200:VAL:H	1.74	0.47
1:A:555:GLU:OE1	1:A:871:PHE:HD2	1.95	0.47
1:A:584:LEU:O	1:A:588:ILE:HD12	2.14	0.47
2:C:37:MET:O	2:C:38:ILE:C	2.53	0.47
1:A:170:TYR:CE1	1:A:682:PHE:HB2	2.49	0.47
1:A:436:ILE:O	1:A:440:PHE:CB	2.61	0.47
1:A:328:LEU:HD11	1:A:606:VAL:HG21	1.96	0.47
1:A:784:ALA:O	1:A:785:GLN:C	2.51	0.47
2:I:8:SER:O	2:I:10:THR:N	2.47	0.47
2:E:346:VAL:CG2	2:E:385:VAL:HG13	2.44	0.47
2:E:32:GLN:O	2:E:33:GLN:C	2.53	0.47
2:L:78:VAL:O	2:L:81:ALA:N	2.42	0.47
1:B:466:PHE:CD1	2:H:80:THR:CG2	2.68	0.47
2:J:37:MET:O	2:J:38:ILE:C	2.52	0.47
1:B:246:HIS:CG	1:B:247:PRO:HD2	2.49	0.47
1:A:839:MET:HE3	1:A:840:HIS:C	2.35	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:568:VAL:CG1	1:A:569:GLN:H	2.02	0.47
2:D:35:ASN:O	2:D:36:GLN:C	2.53	0.47
2:G:110:ALA:HB1	2:G:111:PRO:CD	2.44	0.47
1:A:262:VAL:HG12	1:A:297:ARG:HB3	1.95	0.47
2:C:153:HIS:NE2	2:D:153:HIS:NE2	2.62	0.47
2:C:123:LYS:HG3	2:C:124:PHE:CD1	2.50	0.47
1:A:466:PHE:O	1:A:467:GLN:C	2.52	0.47
1:A:746:GLN:O	1:A:750:MET:HG3	2.13	0.47
1:A:101:LYS:O	1:A:102:GLU:HB2	2.15	0.47
2:G:139:TRP:C	2:G:139:TRP:CD1	2.88	0.47
1:B:329:ALA:HB3	1:B:384:ALA:CB	2.44	0.47
1:B:487:GLY:O	1:B:488:VAL:HB	2.15	0.47
1:A:548:ARG:NH1	1:A:877:MET:HA	2.29	0.47
1:B:126:PHE:CB	1:B:149:LYS:O	2.62	0.47
2:L:8:SER:O	2:L:10:THR:N	2.47	0.47
2:C:8:SER:O	2:C:10:THR:N	2.47	0.47
2:F:8:SER:O	2:F:10:THR:N	2.47	0.47
2:F:346:VAL:CG2	2:F:385:VAL:HG13	2.44	0.47
1:B:298:TYR:CD1	1:B:299:ILE:N	2.79	0.47
1:A:260:GLN:O	1:A:262:VAL:N	2.40	0.47
2:M:105:GLN:NE2	2:M:359:PRO:O	2.47	0.47
2:J:139:TRP:C	2:J:139:TRP:CD1	2.88	0.47
1:A:326:TYR:HD1	1:A:384:ALA:HB1	1.76	0.47
1:B:497:ILE:HD12	2:I:32:GLN:HG2	1.95	0.47
2:F:32:GLN:O	2:F:33:GLN:C	2.53	0.47
2:L:32:GLN:O	2:L:33:GLN:C	2.53	0.47
2:L:37:MET:O	2:L:38:ILE:C	2.53	0.47
1:B:636:LYS:O	1:B:637:LYS:CB	2.62	0.47
1:A:188:VAL:CG1	1:A:189:GLU:H	2.25	0.47
1:B:674:VAL:HB	1:B:679:LEU:HB2	1.96	0.47
2:E:57:ARG:NH1	2:E:94:ASN:HD21	2.07	0.47
2:N:54:LEU:HD12	2:N:55:PRO:CD	2.44	0.47
2:M:110:ALA:HB1	2:M:111:PRO:CD	2.44	0.47
2:J:110:ALA:HB1	2:J:111:PRO:CD	2.44	0.47
2:D:346:VAL:CG2	2:D:385:VAL:HG13	2.44	0.47
2:F:153:HIS:NE2	2:G:153:HIS:NE2	2.62	0.47
2:F:123:LYS:HG3	2:F:124:PHE:CD1	2.50	0.47
2:J:105:GLN:NE2	2:J:359:PRO:O	2.47	0.47
2:H:139:TRP:CD1	2:H:139:TRP:C	2.88	0.47
1:B:137:ASN:CG	1:B:137:ASN:O	2.52	0.47
2:K:139:TRP:C	2:K:139:TRP:CD1	2.88	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:61:PHE:CD1	2:M:61:PHE:N	2.82	0.47
1:B:876:ILE:HG13	1:B:877:MET:HB2	1.96	0.47
2:J:35:ASN:O	2:J:36:GLN:C	2.53	0.47
2:F:34:PHE:O	2:F:37:MET:HB3	2.15	0.47
2:I:75:ALA:HB3	2:M:76:ASN:CA	2.35	0.47
1:A:414:VAL:HB	1:A:419:PHE:HE1	1.79	0.47
1:A:871:PHE:O	1:A:871:PHE:CD1	2.67	0.47
1:B:590:ASN:ND2	1:B:590:ASN:N	2.51	0.47
1:A:841:MET:O	1:A:842:LEU:HD23	2.13	0.47
2:N:57:ARG:NH1	2:N:94:ASN:HD21	2.07	0.47
1:B:601:PHE:O	1:B:602:HIS:C	2.53	0.47
2:J:14:ALA:C	2:J:16:ASP:H	2.17	0.47
2:D:14:ALA:C	2:D:16:ASP:H	2.17	0.47
2:M:111:PRO:HB3	2:M:116:LEU:HG	1.97	0.47
2:G:111:PRO:HB3	2:G:116:LEU:HG	1.97	0.47
2:E:60:ASN:C	2:E:61:PHE:CD1	2.88	0.47
2:E:99:GLU:O	2:E:99:GLU:HG3	2.14	0.47
2:E:139:TRP:C	2:E:139:TRP:CD1	2.87	0.47
1:A:295:THR:HG22	1:A:295:THR:O	2.14	0.47
1:B:539:ARG:O	1:B:542:GLN:N	2.45	0.47
1:B:542:GLN:O	1:B:545:ASP:N	2.47	0.47
1:B:383:ILE:HD11	1:B:550:LEU:CD2	2.44	0.47
1:A:427:CYS:O	1:A:431:ILE:HG13	2.14	0.47
1:B:703:VAL:HG13	1:B:824:LYS:O	2.15	0.47
1:A:126:PHE:HB3	1:A:150:LEU:HD23	1.95	0.47
1:B:772:ILE:CG2	1:B:773:SER:H	2.26	0.47
1:B:583:SER:OG	1:B:584:LEU:N	2.47	0.47
2:E:24:TYR:C	2:E:26:ASN:H	2.16	0.47
2:H:37:MET:O	2:H:38:ILE:C	2.53	0.47
1:B:89:GLU:O	1:B:92:GLN:N	2.48	0.47
2:J:6:SER:O	2:J:8:SER:N	2.48	0.47
2:G:6:SER:O	2:G:8:SER:N	2.48	0.47
2:H:6:SER:O	2:H:8:SER:N	2.47	0.47
2:N:5:TYR:HE2	2:N:131:ASN:HA	1.77	0.47
2:N:141:LEU:O	2:N:146:GLN:HB2	2.13	0.47
1:A:706:ALA:O	1:A:708:ARG:N	2.42	0.47
2:L:100:MET:HG3	2:L:388:VAL:HG11	1.97	0.47
2:H:32:GLN:O	2:H:33:GLN:C	2.53	0.47
2:D:105:GLN:NE2	2:D:359:PRO:O	2.47	0.47
1:A:822:THR:O	1:A:823:THR:OG1	2.21	0.47
1:A:713:GLU:O	1:A:720:TYR:CB	2.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:200:VAL:CG2	1:A:241:TYR:HB3	2.44	0.47
1:B:717:MET:HE1	1:B:830:PRO:CD	2.44	0.47
1:A:695:ALA:O	1:A:696:SER:HB3	2.13	0.47
1:B:770:SER:O	1:B:773:SER:N	2.48	0.47
1:B:775:ILE:H	1:B:775:ILE:CD1	2.21	0.47
1:B:658:PRO:HB2	1:B:661:GLN:CG	2.42	0.47
2:M:35:ASN:O	2:M:36:GLN:C	2.53	0.47
2:M:32:GLN:O	2:M:33:GLN:C	2.53	0.47
1:B:111:ILE:HG22	1:B:113:PRO:CG	2.45	0.47
2:J:150:PHE:O	2:J:330:VAL:HG13	2.15	0.47
2:G:14:ALA:C	2:G:16:ASP:H	2.17	0.47
2:J:111:PRO:HB3	2:J:116:LEU:HG	1.97	0.47
1:A:259:HIS:O	1:A:260:GLN:C	2.53	0.47
1:A:742:GLY:O	1:A:743:ASP:O	2.33	0.47
2:C:100:MET:HG3	2:C:388:VAL:HG11	1.97	0.47
2:N:60:ASN:C	2:N:61:PHE:CD1	2.88	0.47
2:G:78:VAL:O	2:G:81:ALA:N	2.41	0.47
2:E:74:ASP:OD2	2:E:76:ASN:HB3	2.15	0.47
2:D:78:VAL:O	2:D:81:ALA:N	2.41	0.47
2:F:100:MET:HG3	2:F:388:VAL:HG11	1.97	0.47
2:M:139:TRP:CD1	2:M:139:TRP:C	2.88	0.47
2:D:139:TRP:C	2:D:139:TRP:CD1	2.88	0.47
1:B:281:ASP:O	1:B:282:VAL:C	2.53	0.47
1:B:434:THR:CG2	1:B:434:THR:O	2.57	0.47
2:C:142:GLN:C	2:N:145:ARG:HD3	2.34	0.47
1:A:510:LEU:HA	1:A:513:LEU:HD12	1.96	0.47
1:A:588:ILE:CG2	1:A:589:GLY:H	2.26	0.47
1:A:199:VAL:CG1	1:A:200:VAL:N	2.68	0.47
1:B:275:PRO:HB2	1:B:278:ILE:CG1	2.40	0.47
2:G:150:PHE:O	2:G:330:VAL:HG13	2.15	0.47
2:O:74:ASP:OD2	2:O:76:ASN:HB3	2.15	0.47
2:J:3:VAL:O	2:J:4:LEU:C	2.53	0.47
2:H:14:ALA:C	2:H:16:ASP:H	2.16	0.47
2:M:346:VAL:CG2	2:M:385:VAL:HG13	2.44	0.47
1:A:181:LEU:HD23	1:A:257:LEU:CD2	2.45	0.47
2:L:123:LYS:HG3	2:L:124:PHE:CD1	2.50	0.47
1:B:127:GLU:OE1	1:B:151:LYS:HE2	2.15	0.47
2:O:78:VAL:O	2:O:81:ALA:N	2.42	0.47
2:O:153:HIS:O	2:O:154:LYS:C	2.52	0.47
2:O:153:HIS:NE2	2:O:154:LYS:HD3	2.29	0.47
2:I:41:MET:O	2:I:42:ASN:C	2.54	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:37:MET:O	2:F:38:ILE:C	2.53	0.47
1:B:203:GLU:O	1:B:207:ILE:HG13	2.14	0.47
2:H:74:ASP:OD2	2:J:76:ASN:CB	2.62	0.47
1:A:361:GLN:HB2	1:A:528:SER:CB	2.45	0.47
2:L:34:PHE:O	2:L:37:MET:HB3	2.15	0.47
1:B:710:MET:HE1	1:B:824:LYS:HD3	1.97	0.47
2:D:75:ALA:HB3	2:L:76:ASN:HA	1.96	0.47
2:M:150:PHE:O	2:M:330:VAL:HG13	2.15	0.47
2:E:23:LEU:CD2	2:E:25:SER:H	2.28	0.47
1:B:95:ILE:C	1:B:97:THR:H	2.18	0.47
2:N:32:GLN:O	2:N:33:GLN:C	2.53	0.47
2:D:1:MET:O	2:D:2:ASP:C	2.51	0.47
2:O:346:VAL:CG2	2:O:385:VAL:HG13	2.44	0.47
2:G:346:VAL:CG2	2:G:385:VAL:HG13	2.44	0.47
2:K:346:VAL:CG2	2:K:385:VAL:HG13	2.44	0.47
1:B:720:TYR:HB2	1:B:802:ILE:O	2.15	0.47
1:A:155:LEU:HA	1:A:156:PRO:HD3	1.61	0.47
2:E:100:MET:HG3	2:E:388:VAL:HG11	1.97	0.47
2:K:99:GLU:O	2:K:99:GLU:HG3	2.14	0.47
2:J:61:PHE:N	2:J:61:PHE:CD1	2.82	0.47
2:I:100:MET:HG3	2:I:388:VAL:HG11	1.97	0.47
1:B:415:PRO:O	1:B:417:ASP:N	2.48	0.47
1:B:437:TYR:CD2	1:B:443:GLN:HB2	2.50	0.47
1:B:443:GLN:C	1:B:445:MET:H	2.18	0.47
1:B:526:LYS:HG3	1:B:527:ARG:N	2.30	0.47
2:I:32:GLN:O	2:I:33:GLN:C	2.53	0.47
1:A:494:ASN:CG	1:A:495:ASP:H	2.19	0.47
1:A:122:LEU:HG	1:A:201:ASP:HB2	1.95	0.47
1:A:187:ALA:O	1:A:188:VAL:CG2	2.54	0.47
1:A:197:GLY:O	1:A:198:LYS:C	2.53	0.47
2:K:23:LEU:CD2	2:K:25:SER:H	2.28	0.47
2:O:1:MET:HG3	2:O:2:ASP:N	2.29	0.47
1:B:353:LEU:O	1:B:354:GLN:C	2.53	0.47
1:A:298:TYR:O	1:A:299:ILE:O	2.33	0.47
2:D:6:SER:O	2:D:8:SER:N	2.48	0.47
2:I:3:VAL:O	2:I:4:LEU:C	2.53	0.47
2:I:6:SER:O	2:I:8:SER:N	2.48	0.47
2:H:346:VAL:CG2	2:H:385:VAL:HG13	2.44	0.47
1:B:314:PHE:H	1:B:314:PHE:HD1	1.61	0.47
1:A:151:LYS:O	1:A:152:LYS:CB	2.63	0.47
2:O:153:HIS:O	2:O:337:ASP:HB2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:325:ASN:O	1:B:328:LEU:HB3	2.14	0.47
2:H:100:MET:HG3	2:H:388:VAL:HG11	1.97	0.47
2:J:73:LEU:HD23	2:J:73:LEU:N	2.30	0.47
2:K:60:ASN:C	2:K:61:PHE:CD1	2.88	0.47
1:A:111:ILE:CG2	1:A:111:ILE:O	2.63	0.46
1:A:492:VAL:CG1	1:A:558:MET:CE	2.93	0.46
1:B:442:MET:CG	1:B:443:GLN:N	2.75	0.46
1:B:497:ILE:O	1:B:498:ARG:C	2.53	0.46
1:B:549:LEU:HA	1:B:549:LEU:HD12	1.70	0.46
2:J:32:GLN:O	2:J:33:GLN:C	2.53	0.46
1:A:413:VAL:O	1:A:414:VAL:C	2.53	0.46
2:C:32:GLN:O	2:C:33:GLN:C	2.53	0.46
2:C:34:PHE:O	2:C:37:MET:HB3	2.15	0.46
1:B:409:TRP:CZ3	1:B:413:VAL:HG23	2.50	0.46
2:L:3:VAL:O	2:L:4:LEU:C	2.53	0.46
2:E:1:MET:O	2:E:2:ASP:C	2.53	0.46
2:N:1:MET:O	2:N:2:ASP:C	2.53	0.46
2:D:111:PRO:HB3	2:D:116:LEU:HG	1.97	0.46
1:B:727:LEU:O	1:B:728:ASP:HB3	2.16	0.46
1:A:707:TYR:CZ	1:A:754:ASN:HA	2.50	0.46
1:B:641:ILE:HG13	1:B:641:ILE:H	1.38	0.46
2:F:139:TRP:C	2:F:139:TRP:CD1	2.88	0.46
1:A:314:PHE:CZ	1:A:664:ARG:HG2	2.50	0.46
1:B:442:MET:CG	1:B:443:GLN:H	2.21	0.46
1:B:457:GLN:C	1:B:457:GLN:OE1	2.53	0.46
1:B:509:ALA:O	1:B:513:LEU:CG	2.53	0.46
1:B:548:ARG:HH12	1:B:878:ASN:H	1.58	0.46
2:I:123:LYS:HG3	2:I:124:PHE:CD1	2.50	0.46
2:I:37:MET:O	2:I:38:ILE:C	2.52	0.46
2:L:41:MET:O	2:L:42:ASN:C	2.53	0.46
1:B:645:PHE:O	1:B:649:LEU:HG	2.14	0.46
1:B:633:LEU:O	1:B:635:GLN:N	2.46	0.46
2:E:5:TYR:HE2	2:E:131:ASN:HA	1.77	0.46
2:K:54:LEU:HD12	2:K:55:PRO:CD	2.44	0.46
2:H:1:MET:O	2:H:2:ASP:C	2.53	0.46
2:H:60:ASN:C	2:H:61:PHE:CD1	2.88	0.46
1:A:383:ILE:O	1:A:384:ALA:C	2.52	0.46
1:B:437:TYR:CD2	1:B:443:GLN:CB	2.98	0.46
1:B:480:PHE:CE2	1:B:493:LEU:CB	2.98	0.46
1:B:498:ARG:CZ	2:J:23:LEU:CD1	2.56	0.46
1:A:465:ASN:O	1:A:469:ALA:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:785:GLN:O	1:B:787:VAL:N	2.49	0.46
1:A:769:SER:O	1:A:770:SER:C	2.53	0.46
1:B:180:TYR:CD1	1:B:181:LEU:N	2.81	0.46
1:B:857:PHE:CD1	1:B:857:PHE:N	2.83	0.46
2:N:35:ASN:O	2:N:36:GLN:C	2.54	0.46
2:G:3:VAL:O	2:G:4:LEU:C	2.53	0.46
2:M:6:SER:O	2:M:8:SER:N	2.48	0.46
2:C:3:VAL:O	2:C:4:LEU:C	2.53	0.46
2:F:6:SER:O	2:F:8:SER:N	2.48	0.46
1:A:804:SER:HB2	1:A:810:TYR:HB2	1.97	0.46
1:A:289:ASP:O	1:A:290:ARG:HD3	2.15	0.46
1:A:100:PRO:HB2	1:A:103:SER:HB2	1.98	0.46
1:A:794:THR:HG22	1:A:794:THR:O	2.15	0.46
1:A:313:ASN:C	1:A:313:ASN:OD1	2.53	0.46
1:A:556:THR:O	1:A:558:MET:N	2.48	0.46
2:I:34:PHE:O	2:I:37:MET:HB3	2.15	0.46
2:G:34:PHE:O	2:G:37:MET:HB3	2.16	0.46
1:B:190:ASN:O	1:B:192:ASN:N	2.48	0.46
1:A:714:ARG:HA	1:A:720:TYR:CB	2.28	0.46
1:A:763:LEU:HA	1:A:764:PRO:HD3	1.72	0.46
1:A:703:VAL:HG21	1:A:797:PRO:HB3	1.97	0.46
1:A:141:GLU:O	1:A:142:LEU:CB	2.63	0.46
1:B:94:THR:HG23	1:B:658:PRO:HG3	1.98	0.46
2:H:34:PHE:O	2:H:37:MET:HB3	2.16	0.46
2:M:1:MET:O	2:M:2:ASP:C	2.51	0.46
2:K:5:TYR:HE2	2:K:131:ASN:HA	1.78	0.46
2:K:1:MET:O	2:K:2:ASP:C	2.53	0.46
2:J:346:VAL:CG2	2:J:385:VAL:HG13	2.44	0.46
1:B:800:TYR:O	1:B:802:ILE:N	2.48	0.46
2:O:123:LYS:HG3	2:O:124:PHE:CE1	2.50	0.46
2:I:139:TRP:CD1	2:I:139:TRP:C	2.88	0.46
1:A:645:PHE:HD2	1:A:646:LEU:HD23	1.80	0.46
1:B:442:MET:HE1	1:B:463:ILE:HG23	1.98	0.46
1:B:470:ASN:O	1:B:471:TRP:C	2.54	0.46
1:A:876:ILE:O	1:A:877:MET:HB2	2.16	0.46
1:B:270:ILE:HD11	1:B:292:LEU:HD11	1.97	0.46
1:B:360:ILE:HD12	1:B:360:ILE:N	2.30	0.46
2:H:23:LEU:CD2	2:H:25:SER:H	2.28	0.46
2:K:37:MET:O	2:K:38:ILE:C	2.53	0.46
1:B:93:LYS:O	1:B:656:ARG:HB3	2.15	0.46
1:B:345:GLN:HG3	1:B:349:MET:CE	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:785:GLN:O	1:A:786:ILE:C	2.53	0.46
2:J:54:LEU:HA	2:J:55:PRO:HD3	1.82	0.46
2:L:6:SER:O	2:L:8:SER:N	2.49	0.46
1:A:810:TYR:C	1:A:812:VAL:N	2.68	0.46
2:G:239:THR:CG2	2:G:243:GLY:HA2	2.46	0.46
1:A:612:SER:O	1:A:616:GLU:HB2	2.15	0.46
2:D:73:LEU:N	2:D:73:LEU:HD23	2.31	0.46
2:G:74:ASP:OD2	2:G:76:ASN:HB3	2.16	0.46
1:A:775:ILE:HG13	1:A:775:ILE:H	1.42	0.46
1:B:326:TYR:HD1	1:B:384:ALA:HB1	1.79	0.46
1:B:477:ASN:C	1:B:479:GLN:N	2.66	0.46
1:A:421:ARG:HB3	1:B:523:VAL:HG21	1.96	0.46
2:F:38:ILE:O	2:F:42:ASN:ND2	2.49	0.46
1:B:255:TYR:CA	2:N:69:THR:CG2	2.74	0.46
2:H:74:ASP:OD2	2:H:76:ASN:HB3	2.15	0.46
1:B:159:ASP:OD2	1:B:761:GLY:CA	2.63	0.46
2:C:41:MET:O	2:C:42:ASN:C	2.54	0.46
2:O:24:TYR:HB2	2:O:71:LEU:HD12	1.97	0.46
2:M:34:PHE:O	2:M:37:MET:HB3	2.16	0.46
2:N:23:LEU:CD2	2:N:25:SER:H	2.28	0.46
2:N:37:MET:O	2:N:38:ILE:C	2.53	0.46
2:C:6:SER:O	2:C:8:SER:N	2.48	0.46
2:F:3:VAL:O	2:F:4:LEU:C	2.53	0.46
2:I:239:THR:CG2	2:I:243:GLY:HA2	2.46	0.46
2:K:239:THR:CG2	2:K:243:GLY:HA2	2.46	0.46
2:M:73:LEU:HD23	2:M:73:LEU:N	2.30	0.46
1:B:283:ASN:O	1:B:863:VAL:HG23	2.15	0.46
1:B:508:GLU:N	2:J:70:LEU:HB3	2.27	0.46
1:B:513:LEU:HD23	1:B:516:GLN:HE22	1.81	0.46
1:B:542:GLN:O	1:B:543:LEU:C	2.53	0.46
2:C:142:GLN:HG2	2:N:145:ARG:NE	2.30	0.46
2:C:145:ARG:HD3	2:N:143:ASN:HA	1.98	0.46
1:A:548:ARG:HH11	1:A:877:MET:N	2.13	0.46
1:A:285:ILE:C	1:A:286:LEU:HD23	2.36	0.46
1:B:772:ILE:O	1:B:773:SER:C	2.54	0.46
2:O:106:ARG:HG2	2:O:107:ASN:H	1.80	0.46
1:B:692:ILE:O	1:B:695:ALA:HB3	2.16	0.46
2:O:32:GLN:O	2:O:33:GLN:C	2.53	0.46
2:D:34:PHE:O	2:D:37:MET:HB3	2.16	0.46
2:M:3:VAL:O	2:M:4:LEU:C	2.53	0.46
1:B:836:ARG:H	1:B:836:ARG:HG2	1.59	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:117:LYS:HB2	1:B:179:ASP:CG	2.36	0.46
2:E:61:PHE:CD1	2:E:61:PHE:N	2.84	0.46
2:K:100:MET:HG3	2:K:388:VAL:HG11	1.97	0.46
2:N:239:THR:CG2	2:N:243:GLY:HA2	2.46	0.46
2:G:105:GLN:NE2	2:G:359:PRO:O	2.47	0.46
2:D:239:THR:CG2	2:D:243:GLY:HA2	2.46	0.46
2:I:99:GLU:O	2:I:99:GLU:HG3	2.16	0.46
1:A:277:ARG:HD3	1:A:559:ALA:HB2	1.96	0.46
1:B:543:LEU:O	1:B:544:VAL:C	2.53	0.46
1:A:583:SER:O	1:A:584:LEU:C	2.54	0.46
1:A:591:ALA:O	1:A:877:MET:SD	2.74	0.46
1:A:865:PRO:O	1:A:867:ASN:N	2.49	0.46
1:B:275:PRO:C	1:B:277:ARG:N	2.68	0.46
2:D:150:PHE:O	2:D:330:VAL:HG13	2.15	0.46
2:K:32:GLN:O	2:K:33:GLN:C	2.53	0.46
2:C:99:GLU:HG3	2:C:99:GLU:O	2.16	0.46
2:L:139:TRP:C	2:L:139:TRP:CD1	2.88	0.46
1:B:458:ILE:HD12	1:B:459:ALA:N	2.31	0.46
1:B:463:ILE:HD12	1:B:472:LEU:HD11	1.97	0.46
1:B:466:PHE:HE1	2:H:80:THR:CG2	2.06	0.46
2:I:35:ASN:O	2:I:36:GLN:C	2.55	0.46
2:G:32:GLN:O	2:G:33:GLN:C	2.53	0.46
1:A:503:ILE:O	1:A:503:ILE:HG22	2.16	0.46
1:A:833:PHE:CZ	1:A:835:PHE:HD1	2.31	0.46
2:L:35:ASN:O	2:L:36:GLN:C	2.55	0.46
2:L:38:ILE:O	2:L:42:ASN:ND2	2.49	0.46
1:B:308:LEU:CB	1:B:310:LEU:HD21	2.44	0.46
1:B:854:LEU:O	1:B:855:LEU:C	2.54	0.46
2:O:3:VAL:O	2:O:4:LEU:C	2.54	0.46
1:B:654:VAL:HG12	1:B:655:ALA:H	1.81	0.46
2:I:14:ALA:C	2:I:16:ASP:N	2.69	0.46
2:N:14:ALA:C	2:N:16:ASP:N	2.70	0.46
1:B:453:GLN:N	1:B:453:GLN:OE1	2.48	0.46
1:A:738:LEU:HD11	1:A:743:ASP:HB2	1.97	0.46
2:E:135:TYR:CZ	2:E:342:MET:HE3	2.51	0.46
2:H:382:LEU:HD22	2:H:386:PHE:CE2	2.51	0.46
1:A:154:THR:O	1:A:155:LEU:C	2.54	0.46
2:O:239:THR:CG2	2:O:243:GLY:HA2	2.46	0.46
2:L:99:GLU:O	2:L:99:GLU:HG3	2.16	0.46
1:B:505:GLN:O	2:J:70:LEU:CD2	2.63	0.46
1:B:869:VAL:HG13	1:B:873:ASN:CA	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:34:PHE:O	2:J:37:MET:HB3	2.16	0.46
2:J:34:PHE:O	2:J:35:ASN:C	2.54	0.46
2:G:35:ASN:O	2:G:36:GLN:C	2.53	0.46
1:A:471:TRP:HD1	1:A:512:GLN:HE22	1.63	0.46
1:A:516:GLN:C	1:A:518:PHE:H	2.19	0.46
2:L:106:ARG:H	2:L:106:ARG:CD	2.12	0.46
1:B:363:GLU:O	1:B:363:GLU:HG3	2.15	0.46
2:O:37:MET:O	2:O:38:ILE:C	2.53	0.46
2:N:74:ASP:OD2	2:N:76:ASN:HB3	2.15	0.46
2:H:61:PHE:CD1	2:H:61:PHE:N	2.84	0.46
2:I:60:ASN:C	2:I:61:PHE:CD1	2.90	0.46
2:L:239:THR:CG2	2:L:243:GLY:HA2	2.46	0.46
2:F:60:ASN:C	2:F:61:PHE:CD1	2.90	0.46
1:A:205:ALA:O	1:A:206:SER:C	2.54	0.46
2:C:139:TRP:CD1	2:C:139:TRP:C	2.88	0.46
1:A:389:GLN:O	1:A:389:GLN:CD	2.54	0.45
1:A:558:MET:HG3	1:A:559:ALA:N	2.31	0.45
2:J:71:LEU:O	2:J:72:ASN:O	2.35	0.45
1:B:252:PHE:O	1:B:253:ASN:C	2.55	0.45
1:A:772:ILE:O	1:A:773:SER:C	2.53	0.45
2:J:74:ASP:OD2	2:J:76:ASN:HB3	2.16	0.45
1:A:353:LEU:HD23	1:A:531:ARG:CB	2.43	0.45
1:B:701:GLN:N	1:B:701:GLN:CD	2.70	0.45
1:A:120:THR:HA	1:A:186:MET:HE1	1.98	0.45
1:B:771:VAL:CB	1:B:809:PHE:HB3	2.37	0.45
1:A:701:GLN:CB	1:A:826:TYR:HD2	2.27	0.45
2:D:34:PHE:O	2:D:35:ASN:C	2.54	0.45
2:D:71:LEU:O	2:D:72:ASN:O	2.34	0.45
2:H:35:ASN:O	2:H:36:GLN:C	2.54	0.45
2:E:3:VAL:O	2:E:4:LEU:C	2.55	0.45
2:K:14:ALA:C	2:K:16:ASP:N	2.70	0.45
1:B:169:LEU:HA	1:B:169:LEU:HD12	1.73	0.45
2:H:54:LEU:HD12	2:H:55:PRO:CD	2.44	0.45
2:E:382:LEU:HD22	2:E:386:PHE:CE2	2.51	0.45
2:K:74:ASP:OD2	2:K:76:ASN:HB3	2.15	0.45
2:N:100:MET:HG3	2:N:388:VAL:HG11	1.97	0.45
2:I:38:ILE:O	2:I:42:ASN:ND2	2.49	0.45
1:B:630:ARG:CB	2:L:71:LEU:CD1	2.78	0.45
2:G:70:LEU:CG	2:G:71:LEU:N	2.79	0.45
2:F:35:ASN:O	2:F:36:GLN:C	2.55	0.45
1:B:639:LYS:O	1:B:642:VAL:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:38:ILE:O	2:C:42:ASN:ND2	2.49	0.45
1:B:739:MET:CG	1:B:740:ARG:N	2.79	0.45
2:D:74:ASP:OD2	2:D:76:ASN:HB3	2.16	0.45
2:O:34:PHE:O	2:O:37:MET:HB3	2.15	0.45
1:A:757:VAL:CG1	1:A:758:ALA:N	2.75	0.45
2:D:54:LEU:HA	2:D:55:PRO:HD3	1.82	0.45
1:B:216:GLU:O	1:B:216:GLU:HG3	2.17	0.45
1:B:178:PRO:CD	1:B:256:PHE:CE2	2.99	0.45
2:K:61:PHE:CD1	2:K:61:PHE:N	2.84	0.45
2:H:190:VAL:HG21	2:H:210:HIS:HB2	1.99	0.45
2:K:382:LEU:HD22	2:K:386:PHE:CE2	2.51	0.45
2:J:225:LEU:HD13	2:J:277:PHE:HD2	1.81	0.45
2:E:239:THR:CG2	2:E:243:GLY:HA2	2.46	0.45
2:O:139:TRP:CD1	2:O:139:TRP:C	2.89	0.45
2:G:225:LEU:HD13	2:G:277:PHE:HD2	1.82	0.45
1:A:385:ALA:O	1:A:389:GLN:N	2.47	0.45
1:B:428:GLN:HA	1:B:431:ILE:HD12	1.97	0.45
1:B:463:ILE:HG21	1:B:468:VAL:HG11	1.98	0.45
1:A:779:ASP:CA	1:A:798:ILE:HD12	2.46	0.45
1:A:772:ILE:HD11	1:A:809:PHE:CE2	2.51	0.45
1:A:148:TRP:CH2	1:A:246:HIS:HB2	2.51	0.45
1:B:296:ALA:C	1:B:297:ARG:HG2	2.36	0.45
1:B:704:ILE:O	1:B:823:THR:HG23	2.16	0.45
1:A:675:GLU:O	1:A:676:VAL:C	2.54	0.45
1:A:701:GLN:O	1:A:761:GLY:O	2.34	0.45
2:D:32:GLN:O	2:D:33:GLN:C	2.53	0.45
1:A:601:PHE:O	1:A:602:HIS:C	2.55	0.45
2:N:34:PHE:O	2:N:37:MET:HB3	2.16	0.45
2:O:14:ALA:C	2:O:16:ASP:N	2.69	0.45
2:N:3:VAL:O	2:N:4:LEU:C	2.55	0.45
2:C:346:VAL:CG2	2:C:385:VAL:HG13	2.44	0.45
2:I:346:VAL:CG2	2:I:385:VAL:HG13	2.44	0.45
1:A:815:TYR:HD1	1:A:815:TYR:H	1.63	0.45
2:O:53:ASN:O	2:O:55:PRO:HD3	2.17	0.45
1:A:239:VAL:HG22	1:A:846:LEU:HG	1.98	0.45
1:B:108:LEU:N	1:B:108:LEU:HD22	2.32	0.45
2:F:239:THR:CG2	2:F:243:GLY:HA2	2.46	0.45
2:F:382:LEU:HD22	2:F:386:PHE:CE2	2.52	0.45
2:K:225:LEU:HD13	2:K:277:PHE:HD2	1.82	0.45
1:B:383:ILE:O	1:B:384:ALA:C	2.55	0.45
1:B:435:ILE:O	1:B:436:ILE:C	2.55	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:436:ILE:O	1:B:437:TYR:C	2.54	0.45
1:B:515:ARG:O	1:B:518:PHE:HZ	2.00	0.45
2:F:41:MET:O	2:F:42:ASN:C	2.54	0.45
1:B:254:GLU:O	1:B:257:LEU:N	2.35	0.45
2:M:74:ASP:OD2	2:M:76:ASN:HB3	2.16	0.45
1:A:539:ARG:CZ	1:A:586:MET:O	2.64	0.45
1:A:587:LEU:O	1:A:587:LEU:CD1	2.56	0.45
1:B:126:PHE:HB3	1:B:150:LEU:HA	1.99	0.45
1:B:642:VAL:O	1:B:645:PHE:HB3	2.15	0.45
1:B:277:ARG:NH1	1:B:277:ARG:HB2	2.31	0.45
2:J:6:SER:O	2:J:7:LEU:C	2.55	0.45
2:H:3:VAL:O	2:H:4:LEU:C	2.55	0.45
2:F:14:ALA:C	2:F:16:ASP:N	2.69	0.45
2:L:153:HIS:NE2	2:M:153:HIS:NE2	2.62	0.45
2:K:190:VAL:HG21	2:K:210:HIS:HB2	1.99	0.45
2:O:225:LEU:HD13	2:O:277:PHE:HD2	1.82	0.45
1:A:355:LEU:O	1:A:356:GLU:HB2	2.15	0.45
2:L:60:ASN:C	2:L:61:PHE:CD1	2.90	0.45
2:E:225:LEU:HD13	2:E:277:PHE:HD2	1.82	0.45
2:G:73:LEU:N	2:G:73:LEU:HD23	2.31	0.45
2:D:225:LEU:HD13	2:D:277:PHE:HD2	1.82	0.45
1:A:108:LEU:HD22	1:A:651:ILE:HD11	1.97	0.45
1:A:660:ASP:O	1:A:663:TYR:N	2.48	0.45
1:B:471:TRP:HD1	1:B:512:GLN:HE22	1.62	0.45
1:B:791:LYS:HB3	1:B:792:VAL:H	1.65	0.45
2:I:75:ALA:N	2:M:76:ASN:OD1	2.50	0.45
1:A:339:LEU:HD13	1:A:588:ILE:HG12	1.99	0.45
1:A:495:ASP:OD1	1:A:499:ASP:HB3	2.17	0.45
1:A:503:ILE:HG22	1:A:506:LEU:CB	2.46	0.45
1:A:526:LYS:HG3	1:A:527:ARG:N	2.31	0.45
2:L:34:PHE:O	2:L:35:ASN:C	2.55	0.45
1:B:739:MET:HG2	1:B:740:ARG:N	2.31	0.45
2:O:35:ASN:O	2:O:37:MET:N	2.50	0.45
2:D:35:ASN:O	2:D:37:MET:N	2.50	0.45
1:B:111:ILE:HG22	1:B:113:PRO:HD3	1.97	0.45
2:E:31:ILE:O	2:E:34:PHE:HB3	2.17	0.45
2:E:35:ASN:O	2:E:36:GLN:C	2.54	0.45
2:K:150:PHE:HB2	2:K:152:PHE:CZ	2.52	0.45
2:K:34:PHE:O	2:K:37:MET:HB3	2.16	0.45
2:C:239:THR:CG2	2:C:243:GLY:HA2	2.46	0.45
2:L:190:VAL:HG21	2:L:210:HIS:HB2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:225:LEU:HD13	2:M:277:PHE:HD2	1.82	0.45
2:C:382:LEU:HD22	2:C:386:PHE:CE2	2.52	0.45
1:A:306:ASP:HA	1:A:614:TYR:HE2	1.81	0.45
1:A:319:ASP:OD2	1:A:571:LEU:CA	2.65	0.45
1:A:277:ARG:HD3	1:A:559:ALA:CB	2.46	0.45
1:A:666:ARG:CG	1:A:667:ASP:H	2.29	0.45
1:A:204:THR:CG2	1:A:244:ILE:H	2.29	0.45
1:B:810:TYR:HA	1:B:812:VAL:HG12	1.99	0.45
1:B:817:TRP:CG	1:B:818:VAL:N	2.84	0.45
1:B:724:ALA:CB	1:B:824:LYS:HE3	2.41	0.45
1:B:369:GLY:C	1:B:371:ASN:N	2.69	0.45
2:L:150:PHE:CD1	2:L:150:PHE:N	2.84	0.45
2:E:37:MET:O	2:E:38:ILE:C	2.53	0.45
2:G:54:LEU:HA	2:G:55:PRO:HD3	1.82	0.45
2:N:61:PHE:N	2:N:61:PHE:CD1	2.84	0.45
2:G:73:LEU:HD13	2:G:77:TYR:HD2	1.82	0.45
2:O:190:VAL:HG21	2:O:210:HIS:HB2	1.99	0.45
2:F:20:GLU:O	2:H:125:LYS:HG3	2.17	0.45
2:J:239:THR:CG2	2:J:243:GLY:HA2	2.46	0.45
2:F:99:GLU:HG3	2:F:99:GLU:O	2.16	0.45
1:A:421:ARG:CG	1:B:523:VAL:CG2	2.69	0.45
1:A:163:ARG:NH2	1:A:736:GLU:OE2	2.48	0.45
1:B:392:MET:C	1:B:573:THR:HG23	2.37	0.45
1:B:396:PHE:CZ	1:B:398:THR:HA	2.50	0.45
1:B:508:GLU:H	2:J:70:LEU:HD22	0.96	0.45
2:G:71:LEU:O	2:G:72:ASN:O	2.34	0.45
1:B:122:LEU:HD13	1:B:245:LEU:HD21	1.98	0.45
1:A:779:ASP:N	1:A:779:ASP:OD1	2.50	0.45
1:A:822:THR:O	1:A:823:THR:CB	2.65	0.45
1:A:497:ILE:O	1:A:498:ARG:C	2.55	0.45
1:A:523:VAL:O	1:A:526:LYS:HG2	2.16	0.45
2:L:35:ASN:O	2:L:37:MET:N	2.50	0.45
1:A:853:ASP:O	1:A:854:LEU:CB	2.64	0.45
1:B:594:ILE:HB	1:B:595:PRO:CD	2.47	0.45
2:O:35:ASN:O	2:O:36:GLN:C	2.54	0.45
1:A:698:LYS:H	1:A:765:PHE:HE2	1.62	0.45
2:M:34:PHE:O	2:M:35:ASN:C	2.54	0.45
2:E:34:PHE:O	2:E:37:MET:HB3	2.16	0.45
2:K:35:ASN:O	2:K:36:GLN:C	2.54	0.45
2:D:3:VAL:O	2:D:4:LEU:C	2.53	0.45
2:E:14:ALA:C	2:E:16:ASP:N	2.70	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:6:SER:O	2:K:7:LEU:C	2.55	0.45
2:J:382:LEU:HD22	2:J:386:PHE:CE2	2.52	0.45
2:E:190:VAL:HG21	2:E:210:HIS:HB2	1.99	0.45
1:A:620:ASP:O	1:A:624:ILE:HG13	2.17	0.45
1:A:227:GLU:H	1:A:227:GLU:HG2	1.51	0.45
1:A:420:ILE:HD12	1:A:422:GLU:HG2	1.90	0.45
1:A:557:LEU:O	1:A:558:MET:C	2.55	0.45
1:B:407:GLY:O	1:B:410:LEU:HB2	2.16	0.45
1:B:510:LEU:O	1:B:513:LEU:N	2.50	0.45
1:B:591:ALA:O	1:B:877:MET:HG2	2.17	0.45
2:F:34:PHE:O	2:F:35:ASN:C	2.55	0.45
1:A:130:GLN:O	1:A:131:LEU:HB2	2.17	0.45
1:A:361:GLN:HG3	1:A:362:SER:N	2.19	0.45
1:B:170:TYR:HD1	1:B:685:ILE:CD1	2.29	0.45
1:A:135:ARG:CZ	1:A:141:GLU:HG3	2.46	0.45
2:F:150:PHE:CD1	2:F:150:PHE:N	2.84	0.45
1:A:218:GLU:O	1:A:219:GLY:C	2.55	0.45
1:B:400:ASN:ND2	1:B:403:SER:CB	2.78	0.45
1:A:253:ASN:O	1:A:256:PHE:HB2	2.17	0.45
2:O:69:THR:O	2:O:70:LEU:C	2.55	0.45
2:L:273:TYR:C	2:L:274:GLN:HE21	2.20	0.45
2:I:273:TYR:C	2:I:274:GLN:HE21	2.20	0.45
2:C:60:ASN:C	2:C:61:PHE:CD1	2.90	0.45
2:H:239:THR:CG2	2:H:243:GLY:HA2	2.46	0.45
2:J:190:VAL:HG21	2:J:210:HIS:HB2	1.99	0.45
2:L:382:LEU:HD22	2:L:386:PHE:CE2	2.52	0.45
2:M:78:VAL:O	2:M:81:ALA:N	2.41	0.45
1:A:310:LEU:HD11	1:A:614:TYR:OH	2.17	0.45
1:B:533:ILE:O	1:B:536:LEU:HB2	2.16	0.45
2:J:70:LEU:CG	2:J:71:LEU:N	2.79	0.45
1:B:258:GLN:HG3	2:N:70:LEU:H	1.82	0.45
1:A:134:TYR:CD1	1:A:803:ASN:HB3	2.51	0.45
1:A:148:TRP:CH2	1:A:245:LEU:O	2.70	0.45
1:A:835:PHE:O	1:A:836:ARG:C	2.53	0.45
1:A:428:GLN:CG	1:A:455:PRO:HB2	2.47	0.45
2:I:150:PHE:CD1	2:I:150:PHE:N	2.85	0.45
1:A:193:SER:C	1:A:195:ASP:N	2.70	0.45
2:O:89:VAL:O	2:O:91:PHE:N	2.50	0.45
2:N:150:PHE:HB2	2:N:152:PHE:CZ	2.52	0.45
2:H:31:ILE:O	2:H:34:PHE:HB3	2.17	0.45
1:A:594:ILE:HA	1:A:595:PRO:HD3	1.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:76:ASN:CB	2:O:76:ASN:HB2	2.47	0.45
2:M:6:SER:O	2:M:7:LEU:C	2.55	0.45
2:C:14:ALA:C	2:C:16:ASP:N	2.69	0.45
2:D:73:LEU:HD13	2:D:77:TYR:HD2	1.82	0.45
2:H:312:GLN:HB3	2:H:313:PRO:HA	1.99	0.45
2:D:382:LEU:HD22	2:D:386:PHE:CE2	2.52	0.45
2:O:312:GLN:HB3	2:O:313:PRO:HA	1.99	0.45
2:H:225:LEU:HD13	2:H:277:PHE:HD2	1.82	0.45
2:I:66:LEU:HA	2:I:66:LEU:HD23	1.81	0.45
1:B:382:LEU:HA	1:B:382:LEU:HD12	1.62	0.45
1:B:482:GLN:O	1:B:482:GLN:HG3	2.17	0.45
1:B:527:ARG:HH12	1:B:531:ARG:HH21	1.65	0.45
1:A:660:ASP:CB	1:B:539:ARG:HH11	2.28	0.45
2:I:34:PHE:O	2:I:35:ASN:C	2.55	0.45
2:G:34:PHE:O	2:G:35:ASN:C	2.55	0.45
1:A:774:LEU:O	1:A:777:LYS:N	2.45	0.45
1:A:413:VAL:HG12	1:A:414:VAL:N	2.32	0.45
1:A:353:LEU:O	1:A:354:GLN:HB2	2.17	0.45
1:A:524:ASP:O	1:A:527:ARG:N	2.42	0.45
1:B:698:LYS:O	1:B:699:ILE:HG12	2.17	0.45
2:F:106:ARG:N	2:F:106:ARG:HD3	2.14	0.45
1:B:594:ILE:HB	1:B:595:PRO:HD2	1.98	0.45
1:B:275:PRO:HG2	1:B:278:ILE:HD11	1.99	0.45
2:N:31:ILE:O	2:N:34:PHE:HB3	2.17	0.45
1:A:487:GLY:O	1:A:488:VAL:HB	2.16	0.45
2:H:14:ALA:C	2:H:16:ASP:N	2.70	0.45
2:C:273:TYR:C	2:C:274:GLN:HE21	2.20	0.45
2:K:273:TYR:C	2:K:274:GLN:HE21	2.21	0.45
2:M:239:THR:CG2	2:M:243:GLY:HA2	2.46	0.45
2:F:217:VAL:HG22	2:F:286:ASP:HB3	1.99	0.45
2:N:382:LEU:HD22	2:N:386:PHE:CE2	2.51	0.45
2:O:63:PHE:CD1	2:O:63:PHE:N	2.85	0.45
2:I:382:LEU:HD22	2:I:386:PHE:CE2	2.52	0.45
1:A:596:SER:O	1:A:599:THR:HB	2.16	0.44
1:A:304:LEU:N	1:A:615:ASN:ND2	2.65	0.44
1:B:508:GLU:O	1:B:512:GLN:CG	2.61	0.44
1:A:704:ILE:HG22	1:A:705:ILE:N	2.32	0.44
1:A:353:LEU:HD13	1:A:362:SER:HB2	1.96	0.44
1:B:735:LEU:CD2	1:B:759:LEU:HB3	2.48	0.44
1:B:315:GLU:O	1:B:316:SER:C	2.56	0.44
2:D:70:LEU:CG	2:D:71:LEU:N	2.79	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:10:THR:O	2:O:14:ALA:HB2	2.17	0.44
2:D:6:SER:O	2:D:7:LEU:C	2.55	0.44
2:K:3:VAL:O	2:K:4:LEU:C	2.55	0.44
2:F:6:SER:O	2:F:7:LEU:C	2.55	0.44
2:L:136:ILE:HG23	2:L:137:GLU:N	2.33	0.44
2:C:190:VAL:HG21	2:C:210:HIS:HB2	1.99	0.44
2:E:62:ASP:H	2:E:63:PHE:HD1	1.66	0.44
2:N:225:LEU:HD13	2:N:277:PHE:HD2	1.82	0.44
2:M:190:VAL:HG21	2:M:210:HIS:HB2	1.99	0.44
2:F:35:ASN:O	2:F:37:MET:N	2.50	0.44
1:A:592:THR:HB	1:A:865:PRO:HB2	2.00	0.44
1:A:852:SER:O	1:A:853:ASP:HB3	2.17	0.44
2:C:150:PHE:O	2:C:330:VAL:HG13	2.18	0.44
1:B:692:ILE:O	1:B:695:ALA:N	2.50	0.44
2:O:34:PHE:O	2:O:35:ASN:C	2.55	0.44
2:L:14:ALA:C	2:L:16:ASP:N	2.69	0.44
2:I:312:GLN:HB3	2:I:313:PRO:HA	1.99	0.44
2:J:217:VAL:HG22	2:J:286:ASP:HB3	1.99	0.44
2:M:382:LEU:HD22	2:M:386:PHE:CE2	2.52	0.44
2:K:312:GLN:HB3	2:K:313:PRO:HA	1.99	0.44
2:O:382:LEU:HD22	2:O:386:PHE:CE2	2.52	0.44
2:L:217:VAL:HG22	2:L:286:ASP:HB3	1.99	0.44
2:L:312:GLN:HB3	2:L:313:PRO:HA	1.99	0.44
1:B:402:MET:O	1:B:404:LEU:N	2.51	0.44
1:B:305:GLN:HE21	1:B:564:ASN:CG	2.20	0.44
2:I:35:ASN:O	2:I:37:MET:N	2.50	0.44
1:B:246:HIS:HB3	1:B:249:ASP:OD2	2.17	0.44
1:B:249:ASP:O	1:B:250:TYR:C	2.56	0.44
1:B:257:LEU:HD13	1:B:843:THR:O	2.17	0.44
1:A:401:TYR:N	1:A:401:TYR:CD1	2.84	0.44
1:A:286:LEU:CD2	1:A:286:LEU:N	2.78	0.44
2:C:35:ASN:O	2:C:36:GLN:C	2.55	0.44
1:A:688:ASN:O	1:A:691:GLN:N	2.49	0.44
1:A:169:LEU:HA	1:A:169:LEU:HD12	1.65	0.44
2:O:6:SER:O	2:O:7:LEU:C	2.55	0.44
1:B:354:GLN:HA	1:B:354:GLN:OE1	2.17	0.44
2:I:4:LEU:HA	2:I:7:LEU:CD1	2.48	0.44
2:E:6:SER:O	2:E:7:LEU:C	2.55	0.44
2:G:273:TYR:C	2:G:274:GLN:HE21	2.20	0.44
2:M:73:LEU:HD13	2:M:77:TYR:CD2	2.53	0.44
2:N:217:VAL:HG22	2:N:286:ASP:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:217:VAL:HG22	2:K:286:ASP:HB3	2.00	0.44
2:C:20:GLU:O	2:E:125:LYS:HG3	2.17	0.44
2:G:382:LEU:HD22	2:G:386:PHE:CE2	2.52	0.44
2:F:312:GLN:HB3	2:F:313:PRO:HA	1.99	0.44
1:A:420:ILE:HG13	1:A:421:ARG:N	2.30	0.44
1:B:418:MET:O	1:B:418:MET:HG3	2.17	0.44
2:J:35:ASN:O	2:J:37:MET:N	2.50	0.44
1:B:630:ARG:HB2	2:L:71:LEU:HD13	1.91	0.44
2:G:35:ASN:O	2:G:37:MET:N	2.50	0.44
1:A:580:SER:O	1:A:581:VAL:C	2.56	0.44
1:B:723:ILE:HG22	1:B:724:ALA:N	2.32	0.44
2:F:106:ARG:H	2:F:106:ARG:CD	2.12	0.44
1:A:681:ILE:O	1:A:685:ILE:HG13	2.17	0.44
1:B:166:PHE:CE2	1:B:692:ILE:HD12	2.53	0.44
1:B:308:LEU:HA	1:B:308:LEU:HD23	1.64	0.44
2:E:23:LEU:O	2:E:26:ASN:ND2	2.51	0.44
2:E:35:ASN:O	2:E:37:MET:N	2.51	0.44
2:H:23:LEU:O	2:H:26:ASN:ND2	2.51	0.44
2:K:89:VAL:O	2:K:91:PHE:N	2.51	0.44
2:G:6:SER:O	2:G:7:LEU:C	2.55	0.44
2:I:6:SER:O	2:I:7:LEU:C	2.55	0.44
2:C:6:SER:O	2:C:7:LEU:C	2.55	0.44
2:J:273:TYR:C	2:J:274:GLN:HE21	2.21	0.44
2:J:136:ILE:HG23	2:J:137:GLU:N	2.33	0.44
2:D:73:LEU:HD13	2:D:77:TYR:CD2	2.53	0.44
2:F:249:PHE:CE2	2:F:251:PRO:HG3	2.53	0.44
2:N:190:VAL:HG21	2:N:210:HIS:HB2	1.99	0.44
2:L:20:GLU:O	2:N:125:LYS:HG3	2.17	0.44
2:D:217:VAL:HG22	2:D:286:ASP:HB3	1.99	0.44
2:C:144:ARG:HD2	2:D:82:ARG:CZ	2.48	0.44
2:G:217:VAL:HG22	2:G:286:ASP:HB3	1.99	0.44
2:I:20:GLU:O	2:K:125:LYS:HG3	2.17	0.44
2:L:249:PHE:CE2	2:L:251:PRO:HG3	2.53	0.44
1:A:609:ASN:O	1:A:610:PHE:C	2.55	0.44
1:B:558:MET:O	1:B:559:ALA:C	2.55	0.44
2:F:31:ILE:O	2:F:34:PHE:HB3	2.18	0.44
1:B:745:ALA:HA	1:B:748:THR:OG1	2.18	0.44
1:A:534:LEU:HA	1:A:537:SER:OG	2.18	0.44
1:A:525:TYR:O	1:A:529:ILE:HG13	2.18	0.44
2:L:150:PHE:O	2:L:330:VAL:HG13	2.18	0.44
2:H:150:PHE:HB2	2:H:152:PHE:CZ	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:31:ILE:O	2:K:34:PHE:HB3	2.17	0.44
2:C:89:VAL:O	2:C:91:PHE:N	2.51	0.44
2:N:273:TYR:C	2:N:274:GLN:HE21	2.21	0.44
1:B:300:ARG:HA	1:B:301:PRO:HD3	1.83	0.44
2:F:136:ILE:HG23	2:F:137:GLU:N	2.33	0.44
2:C:22:THR:HB	2:E:128:ASN:O	2.18	0.44
1:A:224:PHE:O	1:A:225:ILE:C	2.54	0.44
2:I:78:VAL:O	2:I:81:ALA:N	2.42	0.44
2:F:48:THR:HG22	2:F:115:SER:OG	2.18	0.44
2:I:249:PHE:CE2	2:I:251:PRO:HG3	2.53	0.44
2:F:225:LEU:HD13	2:F:277:PHE:HD2	1.82	0.44
1:B:491:GLN:NE2	1:B:565:MET:N	2.53	0.44
1:B:744:TYR:O	1:B:745:ALA:HB3	2.18	0.44
1:A:305:GLN:CD	1:A:305:GLN:N	2.71	0.44
1:A:129:ARG:HG2	1:A:130:GLN:N	2.32	0.44
2:C:35:ASN:O	2:C:37:MET:N	2.50	0.44
1:A:292:LEU:HA	1:A:293:PRO:HD3	1.85	0.44
1:A:218:GLU:HB3	1:A:219:GLY:H	1.55	0.44
1:A:437:TYR:CB	1:A:438:PRO:CD	2.96	0.44
2:K:142:GLN:NE2	2:K:143:ASN:N	2.66	0.44
1:B:608:VAL:O	1:B:609:ASN:C	2.56	0.44
1:B:96:PRO:CG	1:B:657:VAL:HG22	2.48	0.44
2:L:6:SER:O	2:L:7:LEU:C	2.55	0.44
2:E:54:LEU:HD12	2:E:55:PRO:CD	2.44	0.44
1:B:183:LEU:O	1:B:186:MET:N	2.48	0.44
1:B:675:GLU:O	1:B:677:ARG:N	2.50	0.44
1:B:211:ILE:O	1:B:213:GLN:N	2.50	0.44
2:J:225:LEU:HD13	2:J:277:PHE:CD2	2.53	0.44
2:N:225:LEU:HD13	2:N:277:PHE:CD2	2.53	0.44
2:I:217:VAL:HG22	2:I:286:ASP:HB3	2.00	0.44
2:N:62:ASP:H	2:N:63:PHE:HD1	1.66	0.44
2:N:312:GLN:HB3	2:N:313:PRO:HA	1.99	0.44
2:L:225:LEU:HD13	2:L:277:PHE:HD2	1.82	0.44
2:L:48:THR:HG22	2:L:115:SER:OG	2.18	0.44
2:E:249:PHE:CE2	2:E:251:PRO:HG3	2.53	0.44
2:I:227:PRO:HD3	2:I:277:PHE:CG	2.53	0.44
1:A:571:LEU:HD22	1:A:571:LEU:HA	1.69	0.44
1:A:672:LEU:HA	1:A:673:PRO:HD3	1.81	0.44
1:A:661:GLN:NE2	1:B:348:LYS:NZ	2.57	0.44
2:I:31:ILE:O	2:I:34:PHE:HB3	2.18	0.44
1:B:230:GLN:CD	1:B:230:GLN:H	2.21	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:770:SER:O	1:A:772:ILE:N	2.51	0.44
1:B:138:GLY:O	1:B:804:SER:HB3	2.17	0.44
2:C:34:PHE:O	2:C:35:ASN:C	2.55	0.44
1:B:134:TYR:CD2	1:B:803:ASN:HB2	2.53	0.44
1:B:772:ILE:HB	1:B:809:PHE:HE2	1.83	0.44
2:M:35:ASN:O	2:M:37:MET:N	2.50	0.44
2:L:128:ASN:O	2:L:129:PHE:CB	2.66	0.44
2:H:5:TYR:HE2	2:H:131:ASN:HA	1.78	0.44
2:H:6:SER:O	2:H:7:LEU:C	2.55	0.44
2:I:22:THR:HB	2:K:128:ASN:O	2.18	0.44
1:B:380:LYS:O	1:B:381:THR:C	2.56	0.44
2:G:227:PRO:HD3	2:G:277:PHE:CG	2.53	0.44
2:E:227:PRO:HD3	2:E:277:PHE:CG	2.53	0.44
2:D:225:LEU:HD13	2:D:277:PHE:CD2	2.53	0.44
2:F:227:PRO:HD3	2:F:277:PHE:CG	2.53	0.44
2:I:190:VAL:HG21	2:I:210:HIS:HB2	1.99	0.44
2:G:249:PHE:CE2	2:G:251:PRO:HG3	2.53	0.44
1:B:339:LEU:CD2	1:B:588:ILE:HD13	2.47	0.44
2:I:144:ARG:HD2	2:J:82:ARG:CZ	2.48	0.44
2:L:144:ARG:HD2	2:M:82:ARG:CZ	2.48	0.44
2:C:225:LEU:HD13	2:C:277:PHE:HD2	1.82	0.44
1:B:447:TYR:OH	1:B:458:ILE:HD11	2.18	0.44
2:M:70:LEU:CG	2:M:71:LEU:N	2.79	0.44
1:B:225:ILE:O	1:B:226:ALA:O	2.35	0.44
1:A:876:ILE:HG22	1:A:877:MET:HG2	1.99	0.44
1:B:363:GLU:OE1	1:B:366:PHE:HB2	2.18	0.44
2:K:57:ARG:NH1	2:K:94:ASN:HD21	2.07	0.44
2:L:89:VAL:O	2:L:91:PHE:N	2.51	0.44
2:H:89:VAL:O	2:H:91:PHE:N	2.51	0.44
2:D:97:MET:O	2:D:101:VAL:HG13	2.18	0.44
2:H:273:TYR:C	2:H:274:GLN:HE21	2.21	0.44
2:L:23:LEU:O	2:L:26:ASN:ND2	2.51	0.44
1:A:265:LEU:HB3	1:A:296:ALA:CB	2.48	0.44
2:J:73:LEU:HD13	2:J:77:TYR:CD2	2.53	0.44
2:J:227:PRO:HD3	2:J:277:PHE:CG	2.53	0.44
2:C:225:LEU:HD13	2:C:277:PHE:CD2	2.53	0.44
2:F:190:VAL:HG21	2:F:210:HIS:HB2	1.99	0.44
1:A:421:ARG:C	1:A:423:SER:H	2.21	0.44
1:A:634:TYR:OH	1:A:736:GLU:OE2	2.33	0.44
1:B:536:LEU:CD2	1:B:536:LEU:N	2.80	0.44
2:M:71:LEU:O	2:M:72:ASN:O	2.34	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:405:ILE:HA	1:A:408:MET:SD	2.58	0.44
1:A:521:MET:CB	1:A:522:PRO:HD3	2.28	0.44
2:L:31:ILE:O	2:L:34:PHE:HB3	2.18	0.44
1:B:118:LYS:CG	1:B:119:GLN:H	2.30	0.44
1:A:283:ASN:ND2	1:A:869:VAL:H	2.16	0.44
1:A:118:LYS:CG	1:A:119:GLN:N	2.70	0.44
1:B:275:PRO:C	1:B:277:ARG:H	2.21	0.44
1:B:275:PRO:HD2	1:B:278:ILE:CD1	2.47	0.44
2:F:89:VAL:O	2:F:91:PHE:N	2.51	0.44
2:E:89:VAL:O	2:E:91:PHE:N	2.51	0.44
2:L:1:MET:O	2:L:2:ASP:C	2.56	0.44
2:D:124:PHE:CD1	2:D:124:PHE:N	2.86	0.44
1:B:670:ARG:O	2:L:68:THR:OG1	2.24	0.44
2:F:22:THR:HB	2:H:128:ASN:O	2.18	0.44
2:K:106:ARG:HD2	2:L:147:ARG:NE	2.15	0.44
2:K:225:LEU:HD13	2:K:277:PHE:CD2	2.53	0.44
2:G:190:VAL:HG21	2:G:210:HIS:HB2	1.99	0.44
2:K:249:PHE:CE2	2:K:251:PRO:HG3	2.53	0.44
2:H:169:SER:HA	2:H:176:LEU:HD23	2.00	0.44
2:J:312:GLN:HB3	2:J:313:PRO:HA	1.99	0.44
2:C:48:THR:HG22	2:C:115:SER:OG	2.18	0.44
2:D:312:GLN:HB3	2:D:313:PRO:HA	1.99	0.44
1:B:205:ALA:O	1:B:206:SER:C	2.56	0.44
1:B:525:TYR:O	1:B:529:ILE:HG13	2.18	0.43
1:B:721:VAL:CG1	1:B:722:ASN:H	2.26	0.43
2:C:31:ILE:O	2:C:34:PHE:HB3	2.18	0.43
2:L:151:THR:C	2:L:152:PHE:CD1	2.92	0.43
2:F:150:PHE:O	2:F:330:VAL:HG13	2.18	0.43
2:F:151:THR:C	2:F:152:PHE:CD1	2.92	0.43
1:B:811:LEU:H	1:B:811:LEU:CD2	2.25	0.43
1:A:765:PHE:CE1	1:A:767:THR:HG23	2.53	0.43
2:H:35:ASN:O	2:H:37:MET:N	2.51	0.43
2:O:141:LEU:HD12	2:O:148:THR:HG21	1.99	0.43
2:D:122:ILE:HG23	2:D:123:LYS:N	2.33	0.43
2:M:273:TYR:C	2:M:274:GLN:HE21	2.21	0.43
2:D:273:TYR:C	2:D:274:GLN:HE21	2.21	0.43
2:C:136:ILE:HG23	2:C:137:GLU:N	2.33	0.43
2:N:122:ILE:HG23	2:N:123:LYS:N	2.33	0.43
2:E:122:ILE:HG23	2:E:123:LYS:N	2.33	0.43
2:E:225:LEU:HD13	2:E:277:PHE:CD2	2.53	0.43
2:G:73:LEU:HD13	2:G:77:TYR:CD2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:217:VAL:HG22	2:C:286:ASP:HB3	1.99	0.43
2:N:249:PHE:CE2	2:N:251:PRO:HG3	2.53	0.43
2:M:169:SER:HA	2:M:176:LEU:HD23	2.00	0.43
2:D:190:VAL:HG21	2:D:210:HIS:HB2	1.99	0.43
2:N:169:SER:HA	2:N:176:LEU:HD23	2.00	0.43
2:K:169:SER:HA	2:K:176:LEU:HD23	2.00	0.43
2:D:249:PHE:CE2	2:D:251:PRO:HG3	2.53	0.43
2:F:144:ARG:HD2	2:G:82:ARG:CZ	2.48	0.43
2:G:312:GLN:HB3	2:G:313:PRO:HA	1.99	0.43
1:B:321:ILE:O	1:B:322:THR:C	2.56	0.43
1:B:493:LEU:CD1	1:B:567:HIS:HB2	2.47	0.43
1:A:821:SER:OG	1:A:822:THR:N	2.51	0.43
1:A:546:LEU:HD23	1:A:546:LEU:HA	1.82	0.43
1:B:770:SER:O	1:B:773:SER:HB2	2.18	0.43
2:I:150:PHE:O	2:I:330:VAL:HG13	2.18	0.43
2:C:150:PHE:CD1	2:C:150:PHE:N	2.85	0.43
2:O:31:ILE:O	2:O:34:PHE:HB3	2.18	0.43
2:O:5:TYR:O	2:O:6:SER:C	2.57	0.43
1:A:593:VAL:HG12	1:A:594:ILE:N	2.33	0.43
1:B:98:PHE:CE1	1:B:653:ASP:HB3	2.53	0.43
2:G:1:MET:C	2:G:3:VAL:N	2.70	0.43
2:E:273:TYR:C	2:E:274:GLN:HE21	2.21	0.43
2:D:136:ILE:HG23	2:D:137:GLU:N	2.33	0.43
1:A:707:TYR:H	1:A:707:TYR:HD1	1.65	0.43
2:M:73:LEU:HD13	2:M:77:TYR:HD2	1.82	0.43
2:K:227:PRO:HD3	2:K:277:PHE:CG	2.53	0.43
2:O:227:PRO:HD3	2:O:277:PHE:CG	2.53	0.43
2:H:227:PRO:HD3	2:H:277:PHE:CG	2.53	0.43
2:L:225:LEU:HD13	2:L:277:PHE:CD2	2.53	0.43
2:I:225:LEU:HD13	2:I:277:PHE:HD2	1.82	0.43
2:I:48:THR:HG22	2:I:115:SER:OG	2.18	0.43
2:H:249:PHE:CE2	2:H:251:PRO:HG3	2.53	0.43
1:A:552:TYR:O	1:A:553:ASN:C	2.57	0.43
2:O:99:GLU:O	2:O:99:GLU:HG3	2.18	0.43
1:A:394:LEU:HD12	1:A:423:SER:OG	2.18	0.43
1:B:421:ARG:O	1:B:425:VAL:HG23	2.18	0.43
1:B:433:ASN:C	1:B:435:ILE:N	2.71	0.43
1:B:122:LEU:O	1:B:123:PHE:CB	2.65	0.43
2:C:145:ARG:HG2	2:N:145:ARG:CG	2.49	0.43
2:H:62:ASP:H	2:H:63:PHE:HD1	1.66	0.43
1:B:696:SER:O	1:B:827:LYS:HE3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:204:THR:HG23	1:B:244:ILE:HG22	1.97	0.43
1:A:242:PRO:HA	1:A:841:MET:SD	2.58	0.43
2:O:31:ILE:HG21	2:O:68:THR:HG22	2.00	0.43
1:B:609:ASN:O	1:B:610:PHE:C	2.56	0.43
2:J:124:PHE:N	2:J:124:PHE:CD1	2.86	0.43
2:J:97:MET:O	2:J:101:VAL:HG13	2.18	0.43
2:M:97:MET:O	2:M:101:VAL:HG13	2.18	0.43
1:A:271:PHE:CA	1:A:274:ILE:HD12	2.47	0.43
2:F:273:TYR:C	2:F:274:GLN:HE21	2.20	0.43
2:O:273:TYR:C	2:O:274:GLN:HE21	2.21	0.43
2:L:22:THR:HB	2:N:128:ASN:O	2.18	0.43
2:E:169:SER:HA	2:E:176:LEU:HD23	2.00	0.43
2:O:169:SER:HA	2:O:176:LEU:HD23	2.00	0.43
2:E:312:GLN:HB3	2:E:313:PRO:HA	1.99	0.43
2:M:312:GLN:HB3	2:M:313:PRO:HA	1.99	0.43
1:A:309:ASN:HA	1:A:311:HIS:CE1	2.53	0.43
1:A:658:PRO:CG	1:B:348:LYS:HG2	2.41	0.43
1:B:425:VAL:HA	1:B:428:GLN:HE21	1.82	0.43
1:B:437:TYR:HD2	1:B:443:GLN:HB3	1.83	0.43
1:A:469:ALA:HB1	2:G:71:LEU:CD1	2.48	0.43
1:B:786:ILE:CG2	1:B:792:VAL:HG12	2.46	0.43
1:A:246:HIS:O	1:A:247:PRO:C	2.56	0.43
1:A:361:GLN:CB	1:A:528:SER:OG	2.65	0.43
1:B:639:LYS:O	1:B:640:ALA:C	2.56	0.43
2:O:23:LEU:C	2:O:23:LEU:HD23	2.35	0.43
1:B:671:LEU:O	1:B:672:LEU:HD23	2.19	0.43
2:D:66:LEU:HD23	2:D:66:LEU:HA	1.71	0.43
2:K:23:LEU:O	2:K:26:ASN:ND2	2.51	0.43
2:G:10:THR:O	2:G:14:ALA:HB2	2.18	0.43
1:A:252:PHE:O	1:A:253:ASN:C	2.57	0.43
2:D:1:MET:O	2:D:4:LEU:N	2.51	0.43
2:L:2:ASP:O	2:L:5:TYR:HB3	2.18	0.43
2:C:128:ASN:O	2:C:129:PHE:CB	2.66	0.43
2:C:2:ASP:O	2:C:5:TYR:HB3	2.18	0.43
2:H:5:TYR:O	2:H:6:SER:C	2.57	0.43
2:N:5:TYR:O	2:N:6:SER:C	2.57	0.43
2:F:1:MET:O	2:F:4:LEU:HB3	2.18	0.43
2:K:122:ILE:HG23	2:K:123:LYS:N	2.33	0.43
2:H:122:ILE:HG23	2:H:123:LYS:N	2.33	0.43
2:G:225:LEU:HD13	2:G:277:PHE:CD2	2.53	0.43
2:O:225:LEU:HD13	2:O:277:PHE:CD2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:225:LEU:HD13	2:M:277:PHE:CD2	2.53	0.43
2:N:227:PRO:HD3	2:N:277:PHE:CG	2.53	0.43
2:F:169:SER:HA	2:F:176:LEU:HD23	2.00	0.43
2:E:217:VAL:HG22	2:E:286:ASP:HB3	2.00	0.43
2:I:169:SER:HA	2:I:176:LEU:HD23	2.00	0.43
2:G:104:SER:O	2:G:108:GLY:HA3	2.18	0.43
1:A:421:ARG:O	1:A:425:VAL:HG23	2.18	0.43
1:A:554:TYR:OH	1:A:558:MET:HE1	2.19	0.43
1:A:608:VAL:O	1:A:609:ASN:C	2.57	0.43
1:A:653:ASP:O	1:A:657:VAL:HG22	2.19	0.43
1:B:529:ILE:O	1:B:533:ILE:HG13	2.19	0.43
1:B:544:VAL:CG1	1:B:548:ARG:HH21	2.31	0.43
2:J:67:GLY:O	2:J:68:THR:CG2	2.66	0.43
1:B:246:HIS:CD2	1:B:248:ILE:N	2.83	0.43
2:C:142:GLN:HE22	2:N:145:ARG:HH12	1.61	0.43
1:B:112:LYS:N	1:B:113:PRO:HD3	2.32	0.43
2:N:23:LEU:O	2:N:26:ASN:ND2	2.51	0.43
2:I:89:VAL:O	2:I:91:PHE:N	2.51	0.43
2:J:10:THR:O	2:J:14:ALA:HB2	2.18	0.43
2:G:14:ALA:C	2:G:16:ASP:N	2.71	0.43
1:A:252:PHE:CD2	1:A:684:LEU:HD23	2.53	0.43
2:D:14:ALA:C	2:D:16:ASP:N	2.71	0.43
2:I:10:THR:O	2:I:14:ALA:HB2	2.19	0.43
2:G:122:ILE:HG23	2:G:123:LYS:N	2.33	0.43
1:B:140:LYS:C	1:B:142:LEU:N	2.71	0.43
1:A:793:ASP:C	1:A:795:LEU:N	2.72	0.43
2:F:23:LEU:O	2:F:26:ASN:ND2	2.51	0.43
2:K:106:ARG:HB3	2:K:107:ASN:H	1.63	0.43
2:J:73:LEU:HD13	2:J:77:TYR:HD2	1.82	0.43
2:H:217:VAL:HG22	2:H:286:ASP:HB3	2.00	0.43
2:O:217:VAL:HG22	2:O:286:ASP:HB3	1.99	0.43
2:C:249:PHE:CE2	2:C:251:PRO:HG3	2.53	0.43
2:M:217:VAL:HG22	2:M:286:ASP:HB3	1.99	0.43
2:J:249:PHE:CE2	2:J:251:PRO:HG3	2.53	0.43
2:I:163:SER:HB3	2:I:181:TRP:CZ2	2.54	0.43
1:B:422:GLU:O	1:B:425:VAL:CB	2.66	0.43
1:B:486:ASP:C	1:B:488:VAL:N	2.72	0.43
1:B:254:GLU:HB3	2:N:69:THR:HG1	1.82	0.43
1:A:563:MET:O	1:A:564:ASN:C	2.56	0.43
1:A:721:VAL:CG1	1:A:800:TYR:H	2.31	0.43
1:A:720:TYR:CE1	1:A:819:PRO:HG2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:527:ARG:HH11	1:A:527:ARG:CG	2.28	0.43
1:B:292:LEU:HA	1:B:293:PRO:HD3	1.88	0.43
1:B:735:LEU:O	1:B:736:GLU:C	2.56	0.43
2:C:33:GLN:O	2:C:36:GLN:HB3	2.19	0.43
1:B:319:ASP:OD2	1:B:572:THR:N	2.52	0.43
2:E:150:PHE:HB2	2:E:152:PHE:CZ	2.52	0.43
1:B:87:GLN:C	1:B:89:GLU:N	2.71	0.43
2:J:1:MET:O	2:J:4:LEU:N	2.51	0.43
2:G:2:ASP:O	2:G:5:TYR:HB3	2.19	0.43
2:I:1:MET:O	2:I:4:LEU:HB3	2.18	0.43
2:C:10:THR:O	2:C:14:ALA:HB2	2.18	0.43
2:C:1:MET:O	2:C:2:ASP:C	2.56	0.43
2:G:124:PHE:N	2:G:124:PHE:CD1	2.86	0.43
2:M:122:ILE:HG23	2:M:123:LYS:N	2.33	0.43
2:F:10:THR:O	2:F:14:ALA:HB2	2.19	0.43
1:A:810:TYR:C	1:A:810:TYR:CD1	2.92	0.43
1:A:239:VAL:CG2	1:A:846:LEU:HG	2.49	0.43
2:D:227:PRO:HD3	2:D:277:PHE:CG	2.53	0.43
2:L:169:SER:HA	2:L:176:LEU:HD23	2.00	0.43
2:C:78:VAL:O	2:C:81:ALA:N	2.42	0.43
1:B:552:TYR:O	1:B:553:ASN:C	2.57	0.43
1:B:665:LEU:HA	1:B:665:LEU:HD12	1.87	0.43
1:B:402:MET:O	1:B:405:ILE:N	2.52	0.43
1:B:260:GLN:O	1:B:261:LEU:C	2.56	0.43
1:B:810:TYR:C	1:B:812:VAL:N	2.72	0.43
2:I:151:THR:C	2:I:152:PHE:CD1	2.92	0.43
2:K:35:ASN:O	2:K:37:MET:N	2.51	0.43
2:M:89:VAL:O	2:M:91:PHE:N	2.52	0.43
2:N:89:VAL:O	2:N:91:PHE:N	2.51	0.43
2:M:10:THR:O	2:M:14:ALA:HB2	2.18	0.43
2:F:1:MET:O	2:F:2:ASP:C	2.56	0.43
2:F:4:LEU:HA	2:F:7:LEU:CD1	2.48	0.43
1:A:804:SER:O	1:A:810:TYR:HB3	2.18	0.43
2:M:136:ILE:HG23	2:M:137:GLU:N	2.33	0.43
2:O:125:LYS:O	2:O:127:ILE:N	2.52	0.43
2:I:225:LEU:HD13	2:I:277:PHE:CD2	2.53	0.43
2:M:249:PHE:CE2	2:M:251:PRO:HG3	2.53	0.43
2:D:51:ILE:O	2:D:52:GLY:C	2.57	0.43
2:J:78:VAL:O	2:J:81:ALA:N	2.41	0.43
2:F:140:ASN:O	2:F:143:ASN:N	2.51	0.43
2:E:78:VAL:O	2:E:81:ALA:N	2.41	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:104:SER:O	2:M:108:GLY:HA3	2.18	0.43
2:N:106:ARG:HB3	2:N:107:ASN:H	1.62	0.43
2:M:99:GLU:HG3	2:M:99:GLU:O	2.19	0.43
2:D:99:GLU:HG3	2:D:99:GLU:O	2.18	0.43
1:A:558:MET:O	1:A:559:ALA:C	2.57	0.43
1:A:108:LEU:CD2	1:A:651:ILE:HD11	2.49	0.43
1:B:305:GLN:HE21	1:B:564:ASN:ND2	2.17	0.43
1:B:498:ARG:H	2:I:32:GLN:NE2	2.16	0.43
1:B:804:SER:HA	1:B:810:TYR:CZ	2.54	0.43
1:B:340:VAL:HB	1:B:587:LEU:CD1	2.49	0.43
2:N:35:ASN:O	2:N:37:MET:N	2.51	0.43
1:B:96:PRO:HG2	1:B:657:VAL:HG22	2.00	0.43
2:M:5:TYR:O	2:M:6:SER:C	2.57	0.43
2:D:1:MET:C	2:D:3:VAL:N	2.70	0.43
2:L:2:ASP:O	2:L:3:VAL:C	2.58	0.43
2:I:2:ASP:O	2:I:5:TYR:HB3	2.18	0.43
2:K:2:ASP:O	2:K:3:VAL:C	2.57	0.43
2:K:128:ASN:O	2:K:129:PHE:CB	2.67	0.43
1:B:332:VAL:O	1:B:333:VAL:C	2.57	0.43
2:E:136:ILE:HG23	2:E:137:GLU:N	2.34	0.43
2:F:225:LEU:HD13	2:F:277:PHE:CD2	2.53	0.43
2:D:169:SER:HA	2:D:176:LEU:HD23	2.00	0.43
1:A:321:ILE:O	1:A:322:THR:C	2.57	0.43
1:A:581:VAL:O	1:A:585:CYS:SG	2.71	0.43
1:B:134:TYR:CE2	1:B:803:ASN:CB	3.02	0.43
2:C:151:THR:C	2:C:152:PHE:CD1	2.92	0.43
2:H:34:PHE:O	2:H:35:ASN:C	2.57	0.43
2:K:34:PHE:O	2:K:35:ASN:C	2.57	0.43
2:O:4:LEU:HG	2:O:391:ILE:HG21	2.01	0.43
2:J:14:ALA:C	2:J:16:ASP:N	2.71	0.43
2:J:1:MET:C	2:J:3:VAL:N	2.70	0.43
2:M:1:MET:C	2:M:3:VAL:N	2.70	0.43
2:L:1:MET:O	2:L:4:LEU:HB3	2.18	0.43
2:G:97:MET:O	2:G:101:VAL:HG13	2.18	0.43
1:A:271:PHE:HA	1:A:274:ILE:CD1	2.47	0.43
2:N:6:SER:O	2:N:7:LEU:C	2.55	0.43
2:F:128:ASN:O	2:F:129:PHE:CB	2.66	0.43
2:F:5:TYR:HE2	2:F:131:ASN:HA	1.84	0.43
2:F:2:ASP:O	2:F:5:TYR:HB3	2.18	0.43
2:N:108:GLY:HA3	2:N:381:ASN:ND2	2.34	0.43
2:G:136:ILE:HG23	2:G:137:GLU:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:136:ILE:HG23	2:I:137:GLU:N	2.33	0.43
1:A:215:GLU:CD	1:A:215:GLU:H	2.21	0.43
2:L:227:PRO:HD3	2:L:277:PHE:CG	2.53	0.43
1:B:102:GLU:O	1:B:104:ILE:N	2.52	0.43
2:K:163:SER:HB3	2:K:181:TRP:CZ2	2.54	0.43
2:F:163:SER:HB3	2:F:181:TRP:CZ2	2.54	0.43
2:J:104:SER:O	2:J:108:GLY:HA3	2.18	0.43
2:G:163:SER:HB3	2:G:181:TRP:CZ2	2.54	0.43
2:C:163:SER:HB3	2:C:181:TRP:CZ2	2.54	0.43
2:J:169:SER:HA	2:J:176:LEU:HD23	2.00	0.43
1:B:668:ARG:HG3	1:B:668:ARG:HH11	1.83	0.43
2:C:66:LEU:HA	2:C:66:LEU:HD23	1.81	0.43
2:D:163:SER:HB3	2:D:181:TRP:CZ2	2.54	0.43
1:A:380:LYS:O	1:A:381:THR:C	2.57	0.43
1:A:304:LEU:H	1:A:615:ASN:HD21	1.67	0.43
1:B:387:LEU:C	1:B:389:GLN:H	2.22	0.43
1:B:322:THR:HG22	1:B:390:ARG:HB2	2.00	0.43
1:B:391:THR:HG22	1:B:420:ILE:H	1.83	0.43
1:B:497:ILE:HD11	2:I:24:TYR:OH	2.19	0.43
2:I:75:ALA:CB	2:M:76:ASN:HA	2.34	0.43
1:A:769:SER:CB	1:A:807:ASN:OD1	2.65	0.43
1:A:340:VAL:O	1:A:587:LEU:HD21	2.19	0.43
1:A:200:VAL:O	1:A:201:ASP:CB	2.67	0.43
1:A:353:LEU:O	1:A:354:GLN:CB	2.67	0.43
1:B:735:LEU:CG	1:B:760:VAL:O	2.58	0.43
1:B:685:ILE:HG13	1:B:685:ILE:H	1.61	0.43
2:H:152:PHE:O	2:H:328:SER:HA	2.19	0.43
1:A:716:GLU:HG3	1:A:717:MET:N	2.34	0.43
1:A:786:ILE:H	1:A:786:ILE:HG13	1.53	0.43
2:J:5:TYR:O	2:J:6:SER:C	2.57	0.43
2:M:2:ASP:O	2:M:5:TYR:HB3	2.19	0.43
2:M:1:MET:O	2:M:4:LEU:N	2.51	0.43
2:D:2:ASP:O	2:D:5:TYR:HB3	2.19	0.43
2:D:5:TYR:O	2:D:6:SER:C	2.57	0.43
2:L:10:THR:O	2:L:14:ALA:HB2	2.18	0.43
2:C:4:LEU:HA	2:C:7:LEU:CD1	2.47	0.43
2:C:153:HIS:O	2:C:154:LYS:C	2.58	0.43
2:C:123:LYS:HG3	2:C:124:PHE:CE1	2.54	0.43
2:N:128:ASN:O	2:N:129:PHE:CB	2.67	0.43
2:N:227:PRO:O	2:N:228:ASP:HB2	2.19	0.43
2:D:104:SER:O	2:D:108:GLY:HA3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:169:SER:HA	2:C:176:LEU:HD23	2.00	0.43
2:G:109:ILE:O	2:G:109:ILE:HD12	2.19	0.43
1:A:492:VAL:CG2	1:A:558:MET:SD	3.07	0.42
1:A:421:ARG:HG3	1:B:523:VAL:HG21	1.89	0.42
1:B:492:VAL:HB	1:B:558:MET:SD	2.59	0.42
1:A:470:ASN:CA	2:G:70:LEU:HD21	2.39	0.42
1:B:245:LEU:O	1:B:246:HIS:HB2	2.18	0.42
1:A:712:LEU:CD1	1:A:819:PRO:HB3	2.49	0.42
1:A:148:TRP:HH2	1:A:245:LEU:O	2.02	0.42
1:A:524:ASP:O	1:A:525:TYR:C	2.56	0.42
1:B:717:MET:HE1	1:B:830:PRO:HD2	2.01	0.42
1:B:818:VAL:HA	1:B:819:PRO:HD3	1.80	0.42
1:A:679:LEU:O	1:A:681:ILE:N	2.52	0.42
1:B:287:ASN:HD22	1:B:287:ASN:HA	1.71	0.42
1:A:694:ARG:HD3	1:A:701:GLN:HE21	1.84	0.42
2:K:152:PHE:O	2:K:328:SER:HA	2.19	0.42
2:G:67:GLY:O	2:G:68:THR:CG2	2.66	0.42
2:D:10:THR:O	2:D:14:ALA:HB2	2.19	0.42
2:J:122:ILE:HG23	2:J:123:LYS:N	2.33	0.42
2:K:5:TYR:O	2:K:6:SER:C	2.57	0.42
2:N:116:LEU:O	2:N:119:LEU:N	2.50	0.42
2:C:23:LEU:O	2:C:26:ASN:ND2	2.51	0.42
2:I:23:LEU:O	2:I:26:ASN:ND2	2.51	0.42
2:O:122:ILE:HG23	2:O:123:LYS:N	2.33	0.42
1:A:707:TYR:N	1:A:707:TYR:CD1	2.87	0.42
2:M:227:PRO:HD3	2:M:277:PHE:CG	2.53	0.42
2:H:225:LEU:HD13	2:H:277:PHE:CD2	2.53	0.42
1:B:612:SER:O	1:B:616:GLU:HB2	2.19	0.42
2:O:249:PHE:CE2	2:O:251:PRO:HG3	2.53	0.42
1:A:322:THR:HG22	1:A:390:ARG:HB2	2.02	0.42
1:B:431:ILE:O	1:B:435:ILE:HB	2.20	0.42
1:A:313:ASN:CB	1:B:534:LEU:HD21	2.48	0.42
2:K:145:ARG:HH22	2:L:109:ILE:HG12	1.83	0.42
1:B:521:MET:SD	1:B:521:MET:N	2.91	0.42
1:A:720:TYR:CD1	1:A:819:PRO:HG2	2.54	0.42
1:A:188:VAL:HG12	1:A:189:GLU:H	1.76	0.42
1:B:773:SER:O	1:B:776:ALA:N	2.52	0.42
1:A:434:THR:HA	1:A:438:PRO:HG3	2.01	0.42
1:A:166:PHE:O	1:A:169:LEU:N	2.52	0.42
1:A:328:LEU:HG	1:A:603:TYR:HE1	1.85	0.42
1:B:111:ILE:O	1:B:113:PRO:HD3	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:152:PHE:O	2:N:328:SER:HA	2.19	0.42
2:G:89:VAL:O	2:G:91:PHE:N	2.52	0.42
2:N:76:ASN:HB2	2:O:76:ASN:CB	2.48	0.42
2:D:67:GLY:O	2:D:68:THR:CG2	2.66	0.42
2:C:2:ASP:O	2:C:3:VAL:C	2.58	0.42
2:H:2:ASP:O	2:H:3:VAL:C	2.57	0.42
2:K:108:GLY:HA3	2:K:381:ASN:ND2	2.34	0.42
2:H:108:GLY:HA3	2:H:381:ASN:ND2	2.34	0.42
1:B:676:VAL:O	1:B:677:ARG:C	2.58	0.42
2:E:128:ASN:O	2:E:129:PHE:CB	2.67	0.42
1:B:324:SER:O	1:B:325:ASN:C	2.57	0.42
2:E:227:PRO:O	2:E:228:ASP:HB2	2.19	0.42
2:E:163:SER:HB3	2:E:181:TRP:CZ2	2.54	0.42
1:B:85:GLU:O	1:B:86:ILE:C	2.58	0.42
2:C:312:GLN:HB3	2:C:313:PRO:HA	1.99	0.42
2:O:163:SER:HB3	2:O:181:TRP:CZ2	2.54	0.42
2:O:61:PHE:N	2:O:61:PHE:CD1	2.87	0.42
2:N:78:VAL:O	2:N:81:ALA:N	2.41	0.42
1:A:383:ILE:O	1:A:386:MET:N	2.53	0.42
1:B:542:GLN:C	1:B:544:VAL:N	2.71	0.42
2:F:33:GLN:O	2:F:36:GLN:HB3	2.19	0.42
1:B:220:ALA:O	1:B:223:ARG:HB2	2.19	0.42
1:A:710:MET:CE	1:A:824:LYS:HE2	2.48	0.42
2:E:34:PHE:O	2:E:35:ASN:C	2.57	0.42
2:E:150:PHE:O	2:E:330:VAL:HG13	2.19	0.42
2:O:74:ASP:O	2:O:75:ALA:C	2.57	0.42
2:G:1:MET:O	2:G:4:LEU:N	2.51	0.42
2:D:2:ASP:O	2:D:3:VAL:C	2.57	0.42
2:I:2:ASP:O	2:I:3:VAL:C	2.57	0.42
2:E:5:TYR:O	2:E:6:SER:C	2.57	0.42
2:M:124:PHE:CD1	2:M:124:PHE:N	2.86	0.42
2:N:136:ILE:HG23	2:N:137:GLU:N	2.34	0.42
2:H:128:ASN:O	2:H:129:PHE:CB	2.67	0.42
2:N:163:SER:HB3	2:N:181:TRP:CZ2	2.54	0.42
1:A:604:TYR:O	1:A:605:ASN:C	2.58	0.42
1:A:632:ASN:O	1:A:634:TYR:N	2.52	0.42
1:B:464:GLN:CD	2:H:64:GLY:C	2.72	0.42
2:G:65:LEU:HB3	2:G:66:LEU:H	1.73	0.42
2:N:142:GLN:NE2	2:N:143:ASN:N	2.66	0.42
1:A:402:MET:O	1:A:404:LEU:N	2.52	0.42
1:A:429:LEU:CD1	1:A:447:TYR:HD2	2.31	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:158:GLY:H	1:B:762:ALA:HB3	1.85	0.42
1:A:681:ILE:HD12	1:A:681:ILE:HA	1.89	0.42
1:B:406:SER:O	1:B:409:TRP:N	2.50	0.42
1:B:803:ASN:O	1:B:803:ASN:OD1	2.38	0.42
1:B:855:LEU:O	1:B:858:VAL:N	2.51	0.42
2:N:34:PHE:O	2:N:35:ASN:C	2.57	0.42
2:E:152:PHE:O	2:E:328:SER:HA	2.19	0.42
2:K:23:LEU:HD23	2:K:25:SER:H	1.85	0.42
2:C:89:VAL:C	2:C:91:PHE:N	2.73	0.42
2:J:89:VAL:O	2:J:91:PHE:N	2.52	0.42
2:G:5:TYR:O	2:G:6:SER:C	2.57	0.42
2:M:14:ALA:C	2:M:16:ASP:N	2.71	0.42
2:I:128:ASN:O	2:I:129:PHE:CB	2.66	0.42
2:I:5:TYR:HE2	2:I:130:ASP:O	2.03	0.42
2:E:108:GLY:HA3	2:E:381:ASN:ND2	2.34	0.42
2:L:123:LYS:HG3	2:L:124:PHE:CE1	2.54	0.42
2:H:135:TYR:CZ	2:H:342:MET:HE3	2.53	0.42
2:H:227:PRO:O	2:H:228:ASP:HB2	2.20	0.42
2:K:168:ARG:HD2	2:K:175:ASN:O	2.20	0.42
2:M:168:ARG:HD2	2:M:175:ASN:O	2.20	0.42
2:H:163:SER:HB3	2:H:181:TRP:CZ2	2.54	0.42
2:C:168:ARG:HD2	2:C:175:ASN:O	2.20	0.42
2:G:99:GLU:O	2:G:99:GLU:HG3	2.19	0.42
1:B:347:GLN:HE21	1:B:347:GLN:HB3	1.64	0.42
1:B:428:GLN:OE1	1:B:456:PHE:N	2.52	0.42
1:B:486:ASP:C	1:B:488:VAL:H	2.22	0.42
1:B:518:PHE:HB2	1:B:519:PRO:HD2	1.94	0.42
1:A:583:SER:OG	1:A:584:LEU:N	2.53	0.42
1:A:243:SER:O	1:A:839:MET:HG2	2.19	0.42
2:L:33:GLN:O	2:L:36:GLN:HB3	2.19	0.42
1:B:638:MET:HB2	1:B:639:LYS:H	1.48	0.42
1:A:283:ASN:HD21	1:A:869:VAL:H	1.66	0.42
1:B:772:ILE:CA	1:B:775:ILE:HD13	2.41	0.42
1:B:803:ASN:O	1:B:807:ASN:ND2	2.40	0.42
2:O:89:VAL:C	2:O:91:PHE:N	2.72	0.42
2:D:89:VAL:O	2:D:91:PHE:N	2.52	0.42
2:O:2:ASP:O	2:O:3:VAL:C	2.57	0.42
2:J:2:ASP:O	2:J:5:TYR:HB3	2.19	0.42
2:G:4:LEU:HA	2:G:7:LEU:CD1	2.48	0.42
2:I:1:MET:O	2:I:2:ASP:C	2.56	0.42
2:C:1:MET:O	2:C:4:LEU:HB3	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:5:TYR:O	2:C:6:SER:C	2.58	0.42
2:H:4:LEU:HA	2:H:7:LEU:CD1	2.48	0.42
2:H:136:ILE:HG23	2:H:137:GLU:N	2.34	0.42
2:E:99:GLU:OE2	2:E:112:GLN:HG2	2.20	0.42
1:B:102:GLU:C	1:B:104:ILE:N	2.73	0.42
2:F:168:ARG:HD2	2:F:175:ASN:O	2.20	0.42
2:G:169:SER:HA	2:G:176:LEU:HD23	2.00	0.42
2:I:33:GLN:O	2:I:36:GLN:HB3	2.19	0.42
1:B:246:HIS:HD2	1:B:248:ILE:N	2.18	0.42
1:B:773:SER:O	1:B:774:LEU:C	2.58	0.42
1:B:689:MET:CA	1:B:692:ILE:HD12	2.43	0.42
1:A:765:PHE:HD1	1:A:766:VAL:N	2.17	0.42
1:A:785:GLN:O	1:A:788:LYS:N	2.45	0.42
2:J:2:ASP:O	2:J:3:VAL:C	2.58	0.42
2:L:4:LEU:HA	2:L:7:LEU:CD1	2.48	0.42
2:L:5:TYR:O	2:L:6:SER:C	2.58	0.42
1:B:183:LEU:O	1:B:184:LYS:C	2.57	0.42
1:B:183:LEU:CD1	1:B:844:SER:HB3	2.50	0.42
2:F:5:TYR:O	2:F:6:SER:C	2.58	0.42
1:A:597:PRO:CB	1:A:860:ALA:HB3	2.46	0.42
2:I:234:PHE:CE1	2:K:253:ILE:HG13	2.55	0.42
2:F:253:ILE:HG13	2:G:234:PHE:CE1	2.55	0.42
2:K:99:GLU:OE2	2:K:112:GLN:HG2	2.20	0.42
2:J:51:ILE:O	2:J:52:GLY:C	2.57	0.42
1:B:236:ARG:O	1:B:237:ASN:HB2	2.19	0.42
2:M:163:SER:HB3	2:M:181:TRP:CZ2	2.54	0.42
2:H:168:ARG:HD2	2:H:175:ASN:O	2.20	0.42
2:I:168:ARG:HD2	2:I:175:ASN:O	2.20	0.42
1:B:431:ILE:HA	1:B:435:ILE:CD1	2.44	0.42
1:B:447:TYR:CE1	1:B:458:ILE:HD11	2.55	0.42
1:B:536:LEU:HD22	1:B:536:LEU:N	2.34	0.42
2:I:123:LYS:HG3	2:I:124:PHE:CE1	2.55	0.42
1:A:503:ILE:CD1	1:A:544:VAL:O	2.67	0.42
1:A:555:GLU:OE2	1:A:871:PHE:HE2	2.02	0.42
1:A:346:ILE:HD11	1:A:369:GLY:CA	2.50	0.42
1:A:428:GLN:CB	1:A:456:PHE:HE1	2.27	0.42
1:A:855:LEU:O	1:A:856:ALA:C	2.58	0.42
1:B:489:LEU:HD11	2:M:69:THR:HG23	2.00	0.42
2:N:150:PHE:O	2:N:330:VAL:HG13	2.19	0.42
1:B:95:ILE:CG2	1:B:97:THR:OG1	2.67	0.42
2:C:5:TYR:HE2	2:C:130:ASP:O	2.03	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:2:ASP:O	2:F:3:VAL:C	2.57	0.42
1:A:812:VAL:O	1:A:813:ALA:C	2.58	0.42
2:E:142:GLN:NE2	2:E:143:ASN:N	2.66	0.42
2:L:153:HIS:O	2:L:154:LYS:C	2.58	0.42
2:F:123:LYS:HG3	2:F:124:PHE:CE1	2.54	0.42
1:B:820:THR:O	1:B:820:THR:HG22	2.19	0.42
1:A:236:ARG:HB2	1:A:238:VAL:HG23	2.01	0.42
1:A:745:ALA:HA	1:A:748:THR:OG1	2.19	0.42
2:I:253:ILE:HG13	2:J:234:PHE:CE1	2.55	0.42
2:N:99:GLU:OE2	2:N:112:GLN:HG2	2.20	0.42
2:C:227:PRO:O	2:C:228:ASP:HB2	2.20	0.42
2:L:168:ARG:HD2	2:L:175:ASN:O	2.20	0.42
2:L:163:SER:HB3	2:L:181:TRP:CZ2	2.54	0.42
2:N:168:ARG:HD2	2:N:175:ASN:O	2.20	0.42
2:M:51:ILE:O	2:M:52:GLY:C	2.57	0.42
2:G:51:ILE:O	2:G:52:GLY:C	2.57	0.42
2:C:63:PHE:CD1	2:C:63:PHE:N	2.88	0.42
1:B:799:LEU:HA	1:B:799:LEU:HD23	1.81	0.42
2:F:63:PHE:N	2:F:63:PHE:CD1	2.88	0.42
1:A:382:LEU:O	1:A:385:ALA:HB3	2.20	0.42
1:A:662:MET:O	1:A:665:LEU:CB	2.68	0.42
1:B:422:GLU:CA	1:B:425:VAL:HG23	2.37	0.42
1:B:868:ALA:CB	1:B:876:ILE:HG12	2.35	0.42
1:B:738:LEU:CD2	1:B:790:ARG:HH12	2.33	0.42
1:A:362:SER:CA	1:A:365:GLN:NE2	2.81	0.42
1:B:699:ILE:HA	1:B:763:LEU:O	2.19	0.42
1:B:816:ASP:O	1:B:817:TRP:CB	2.65	0.42
1:A:164:GLU:HA	1:A:633:LEU:HD21	2.02	0.42
1:B:145:ARG:HB3	1:B:147:TYR:HE1	1.85	0.42
2:K:89:VAL:C	2:K:91:PHE:N	2.73	0.42
2:H:89:VAL:C	2:H:91:PHE:N	2.73	0.42
1:B:651:ILE:HG23	1:B:652:PHE:N	2.35	0.42
2:K:4:LEU:HA	2:K:7:LEU:CD1	2.48	0.42
2:H:1:MET:C	2:H:3:VAL:N	2.73	0.42
2:K:116:LEU:O	2:K:117:ILE:C	2.58	0.42
2:L:124:PHE:C	2:L:126:ARG:N	2.73	0.42
2:D:253:ILE:HG13	2:E:234:PHE:CE1	2.55	0.42
2:F:234:PHE:CE1	2:H:253:ILE:HG13	2.55	0.42
2:E:74:ASP:O	2:E:75:ALA:C	2.58	0.42
2:M:227:PRO:O	2:M:228:ASP:HB2	2.20	0.42
2:F:227:PRO:O	2:F:228:ASP:HB2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:227:PRO:O	2:I:228:ASP:HB2	2.20	0.42
2:C:227:PRO:HD3	2:C:277:PHE:CG	2.53	0.42
2:K:62:ASP:H	2:K:63:PHE:HD1	1.66	0.42
2:L:63:PHE:N	2:L:63:PHE:CD1	2.88	0.42
2:J:168:ARG:HD2	2:J:175:ASN:O	2.20	0.42
1:B:866:ILE:HG22	1:B:866:ILE:O	2.20	0.42
2:J:99:GLU:HG3	2:J:99:GLU:O	2.18	0.42
1:A:421:ARG:C	1:A:423:SER:N	2.73	0.42
1:A:645:PHE:CD2	1:A:646:LEU:HD23	2.54	0.42
1:B:402:MET:C	1:B:404:LEU:N	2.71	0.42
1:B:546:LEU:HD23	1:B:546:LEU:HA	1.79	0.42
1:B:869:VAL:CA	1:B:876:ILE:HG23	2.48	0.42
2:H:83:ASN:CG	2:I:122:ILE:HB	2.40	0.42
1:A:722:ASN:ND2	1:A:823:THR:O	2.52	0.42
1:A:555:GLU:OE2	1:A:871:PHE:CE2	2.72	0.42
1:A:589:GLY:C	1:A:591:ALA:H	2.21	0.42
1:B:297:ARG:HG3	1:B:848:PHE:CE2	2.51	0.42
1:B:674:VAL:HG12	1:B:678:ARG:HB2	2.02	0.42
1:A:137:ASN:ND2	1:A:139:GLU:HG3	2.35	0.42
1:A:193:SER:OG	1:A:194:ARG:N	2.49	0.42
2:D:33:GLN:O	2:D:36:GLN:HB3	2.20	0.42
2:K:150:PHE:O	2:K:330:VAL:HG13	2.19	0.42
2:M:54:LEU:HA	2:M:55:PRO:HD3	1.82	0.42
2:M:2:ASP:O	2:M:3:VAL:C	2.57	0.42
2:M:124:PHE:O	2:M:126:ARG:N	2.53	0.42
2:F:153:HIS:O	2:F:154:LYS:C	2.58	0.42
2:C:124:PHE:C	2:C:126:ARG:N	2.73	0.42
2:J:227:PRO:O	2:J:228:ASP:HB2	2.20	0.42
2:G:227:PRO:O	2:G:228:ASP:HB2	2.20	0.42
2:O:227:PRO:O	2:O:228:ASP:HB2	2.20	0.42
2:D:227:PRO:O	2:D:228:ASP:HB2	2.20	0.42
1:B:237:ASN:HD22	1:B:237:ASN:N	2.16	0.42
1:A:359:THR:HG22	1:A:359:THR:O	2.18	0.42
1:A:472:LEU:H	1:A:472:LEU:HG	1.49	0.42
2:M:109:ILE:O	2:M:109:ILE:HD12	2.19	0.42
1:A:329:ALA:HB3	1:A:384:ALA:HB2	2.02	0.42
1:B:329:ALA:HB3	1:B:384:ALA:HB2	2.02	0.42
1:B:501:HIS:CE1	1:B:548:ARG:HD3	2.55	0.42
2:C:145:ARG:HG2	2:N:145:ARG:HG3	2.01	0.42
1:B:742:GLY:O	1:B:744:TYR:CE2	2.70	0.42
1:A:771:VAL:CG1	1:A:809:PHE:HB3	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:72:ASN:O	2:O:73:LEU:C	2.58	0.42
1:B:118:LYS:CG	1:B:119:GLN:N	2.83	0.42
1:A:856:ALA:C	1:A:858:VAL:H	2.24	0.42
2:L:74:ASP:OD2	2:L:76:ASN:HB3	2.20	0.42
2:H:150:PHE:O	2:H:330:VAL:HG13	2.19	0.42
2:H:24:TYR:HE1	2:H:31:ILE:HG13	1.85	0.42
2:E:10:THR:O	2:E:14:ALA:HB2	2.20	0.42
1:B:183:LEU:HG	1:B:844:SER:OG	2.20	0.42
2:N:1:MET:C	2:N:3:VAL:N	2.73	0.42
1:A:747:ILE:HG23	1:A:748:THR:H	1.84	0.42
2:K:74:ASP:O	2:K:75:ALA:C	2.58	0.42
2:E:168:ARG:HD2	2:E:175:ASN:O	2.20	0.42
2:C:74:ASP:OD2	2:C:76:ASN:HB3	2.20	0.42
2:F:74:ASP:OD2	2:F:76:ASN:HB3	2.20	0.42
2:J:163:SER:HB3	2:J:181:TRP:CZ2	2.54	0.42
1:B:383:ILE:HG22	1:B:387:LEU:CD1	2.50	0.41
1:A:712:LEU:HD21	1:A:821:SER:HB3	2.02	0.41
1:A:407:GLY:O	1:A:410:LEU:HB2	2.19	0.41
1:B:158:GLY:O	1:B:159:ASP:C	2.58	0.41
1:A:266:ASN:C	1:A:292:LEU:HD12	2.40	0.41
1:A:854:LEU:O	1:A:855:LEU:C	2.57	0.41
1:B:409:TRP:CZ3	1:B:413:VAL:CG2	3.03	0.41
1:A:757:VAL:CG1	1:A:758:ALA:H	2.31	0.41
2:H:57:ARG:NH1	2:H:94:ASN:HD21	2.07	0.41
2:E:23:LEU:HD23	2:E:25:SER:H	1.85	0.41
2:J:4:LEU:HA	2:J:7:LEU:CD1	2.48	0.41
2:G:2:ASP:O	2:G:3:VAL:C	2.58	0.41
2:I:101:VAL:HG23	2:I:102:ARG:N	2.35	0.41
2:J:124:PHE:O	2:J:126:ARG:N	2.53	0.41
2:E:2:ASP:O	2:E:3:VAL:C	2.57	0.41
2:L:122:ILE:HG23	2:L:123:LYS:N	2.35	0.41
2:K:136:ILE:HG23	2:K:137:GLU:N	2.34	0.41
2:G:253:ILE:HG13	2:H:234:PHE:CE1	2.55	0.41
2:L:227:PRO:O	2:L:228:ASP:HB2	2.20	0.41
1:B:383:ILE:O	1:B:386:MET:N	2.53	0.41
2:L:140:ASN:O	2:L:143:ASN:N	2.51	0.41
1:B:722:ASN:ND2	1:B:823:THR:O	2.52	0.41
1:B:409:TRP:O	1:B:412:THR:HB	2.19	0.41
1:B:681:ILE:HG23	1:B:682:PHE:N	2.36	0.41
1:B:371:ASN:O	1:B:372:SER:C	2.58	0.41
1:A:790:ARG:CZ	1:B:287:ASN:CG	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:23:LEU:HD23	2:M:24:TYR:H	1.82	0.41
2:M:23:LEU:CD2	2:M:25:SER:H	2.34	0.41
1:A:700:ALA:O	1:A:701:GLN:CB	2.68	0.41
1:A:275:PRO:HB2	1:A:278:ILE:HD12	1.98	0.41
2:D:124:PHE:O	2:D:126:ARG:N	2.53	0.41
2:E:116:LEU:O	2:E:119:LEU:N	2.50	0.41
2:I:153:HIS:O	2:I:154:LYS:C	2.58	0.41
2:H:142:GLN:NE2	2:H:143:ASN:N	2.66	0.41
2:K:135:TYR:CZ	2:K:342:MET:HE3	2.55	0.41
2:J:253:ILE:HG13	2:K:234:PHE:CE1	2.55	0.41
2:K:227:PRO:O	2:K:228:ASP:HB2	2.19	0.41
2:I:63:PHE:CD1	2:I:63:PHE:N	2.88	0.41
1:B:188:VAL:HG12	1:B:189:GLU:N	2.35	0.41
2:O:168:ARG:HD2	2:O:175:ASN:O	2.20	0.41
1:A:844:SER:OG	1:A:845:ASN:N	2.53	0.41
2:K:59:TRP:CD1	2:K:59:TRP:N	2.88	0.41
1:A:310:LEU:O	1:A:318:TRP:CD1	2.70	0.41
1:B:415:PRO:C	1:B:417:ASP:N	2.72	0.41
2:G:66:LEU:HA	2:G:66:LEU:HD23	1.71	0.41
2:J:74:ASP:O	2:J:75:ALA:C	2.58	0.41
1:A:362:SER:O	1:A:364:THR:N	2.53	0.41
2:L:106:ARG:N	2:L:106:ARG:HD3	2.15	0.41
1:A:292:LEU:H	1:A:292:LEU:HG	1.66	0.41
2:J:89:VAL:C	2:J:91:PHE:N	2.74	0.41
1:B:89:GLU:O	1:B:91:LEU:N	2.54	0.41
2:E:89:VAL:C	2:E:91:PHE:N	2.73	0.41
1:A:299:ILE:CG2	1:A:300:ARG:N	2.83	0.41
2:N:74:ASP:O	2:N:75:ALA:C	2.58	0.41
1:B:239:VAL:HG22	1:B:846:LEU:HB2	2.02	0.41
2:E:116:LEU:O	2:E:117:ILE:C	2.58	0.41
1:B:298:TYR:HE1	1:B:300:ARG:HA	1.85	0.41
2:O:136:ILE:HG23	2:O:137:GLU:N	2.33	0.41
2:L:234:PHE:CE1	2:N:253:ILE:HG13	2.55	0.41
1:A:154:THR:O	1:A:155:LEU:O	2.38	0.41
2:L:235:PRO:HA	2:L:249:PHE:O	2.20	0.41
2:E:355:ILE:HA	2:E:356:PRO:HD3	1.96	0.41
1:A:347:GLN:HE21	1:A:347:GLN:HB3	1.65	0.41
1:A:315:GLU:CD	1:B:531:ARG:NH1	2.74	0.41
1:A:415:PRO:HG3	1:A:478:ASN:HD21	1.85	0.41
1:B:282:VAL:C	1:B:284:TYR:N	2.74	0.41
2:I:122:ILE:HG23	2:I:123:LYS:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:33:GLN:O	2:G:36:GLN:HB3	2.20	0.41
1:A:703:VAL:CG1	1:A:704:ILE:N	2.83	0.41
1:A:544:VAL:O	1:A:548:ARG:HG3	2.20	0.41
1:A:443:GLN:NE2	1:A:521:MET:CG	2.83	0.41
1:B:637:LYS:O	1:B:638:MET:O	2.38	0.41
1:A:854:LEU:HB3	1:A:855:LEU:H	1.38	0.41
1:B:409:TRP:O	1:B:412:THR:N	2.54	0.41
2:F:89:VAL:C	2:F:91:PHE:N	2.73	0.41
2:I:89:VAL:C	2:I:91:PHE:N	2.73	0.41
1:B:182:LEU:HD23	1:B:182:LEU:HA	1.75	0.41
1:B:239:VAL:CG2	1:B:844:SER:O	2.66	0.41
2:H:1:MET:O	2:H:4:LEU:N	2.54	0.41
2:H:116:LEU:O	2:H:117:ILE:C	2.58	0.41
1:B:141:GLU:O	1:B:142:LEU:CB	2.66	0.41
2:C:122:ILE:HG23	2:C:123:LYS:N	2.35	0.41
2:N:123:LYS:HG3	2:N:124:PHE:HD1	1.86	0.41
2:E:123:LYS:HG3	2:E:124:PHE:HD1	1.86	0.41
2:C:253:ILE:HG13	2:D:234:PHE:CE1	2.55	0.41
2:E:45:GLU:HG2	2:E:60:ASN:OD1	2.21	0.41
2:F:235:PRO:HA	2:F:249:PHE:O	2.20	0.41
2:O:235:PRO:HA	2:O:249:PHE:O	2.20	0.41
2:I:204:ASN:HB3	2:I:296:ARG:HB3	2.03	0.41
1:B:434:THR:C	1:B:435:ILE:CG1	2.89	0.41
1:A:544:VAL:CG1	1:A:548:ARG:HH21	2.33	0.41
1:A:365:GLN:HB2	1:A:366:PHE:CE1	2.56	0.41
1:B:244:ILE:HD11	1:B:838:SER:CB	2.48	0.41
2:O:33:GLN:O	2:O:36:GLN:HB3	2.21	0.41
2:D:23:LEU:CD2	2:D:25:SER:H	2.33	0.41
2:M:89:VAL:C	2:M:91:PHE:N	2.74	0.41
1:B:597:PRO:HB2	1:B:598:GLN:H	1.75	0.41
2:O:4:LEU:HA	2:O:7:LEU:CD1	2.49	0.41
1:B:311:HIS:CG	1:B:566:GLN:OE1	2.73	0.41
2:E:1:MET:O	2:E:4:LEU:N	2.54	0.41
2:N:109:ILE:HG13	2:N:109:ILE:O	2.20	0.41
2:M:253:ILE:HG13	2:N:234:PHE:CE1	2.55	0.41
2:H:99:GLU:OE2	2:H:112:GLN:HG2	2.20	0.41
2:H:235:PRO:HA	2:H:249:PHE:O	2.21	0.41
1:A:789:LEU:O	1:A:791:LYS:N	2.53	0.41
2:G:168:ARG:HD2	2:G:175:ASN:O	2.20	0.41
1:A:668:ARG:HH11	1:A:668:ARG:HG3	1.84	0.41
1:B:477:ASN:O	1:B:478:ASN:C	2.59	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:879:GLU:O	1:B:880:LEU:OXT	2.38	0.41
2:J:33:GLN:O	2:J:36:GLN:HB3	2.20	0.41
1:B:230:GLN:CD	1:B:230:GLN:N	2.74	0.41
1:A:703:VAL:HG12	1:A:704:ILE:N	2.34	0.41
1:A:549:LEU:O	1:A:550:LEU:C	2.58	0.41
1:B:721:VAL:CG1	1:B:722:ASN:N	2.77	0.41
1:B:638:MET:HE2	1:B:666:ARG:NH1	2.36	0.41
2:D:31:ILE:O	2:D:34:PHE:HB3	2.21	0.41
2:H:23:LEU:HD23	2:H:25:SER:H	1.85	0.41
2:K:1:MET:O	2:K:4:LEU:N	2.54	0.41
2:L:101:VAL:HG23	2:L:102:ARG:N	2.36	0.41
2:C:101:VAL:HG23	2:C:102:ARG:N	2.35	0.41
2:H:10:THR:O	2:H:14:ALA:HB2	2.20	0.41
1:A:181:LEU:HD23	1:A:257:LEU:HD21	2.01	0.41
1:A:810:TYR:O	1:A:811:LEU:C	2.58	0.41
1:B:140:LYS:O	1:B:142:LEU:N	2.54	0.41
2:F:122:ILE:HG23	2:F:123:LYS:N	2.35	0.41
2:H:109:ILE:HG13	2:H:109:ILE:O	2.20	0.41
2:E:235:PRO:HA	2:E:249:PHE:O	2.21	0.41
2:I:140:ASN:O	2:I:143:ASN:N	2.51	0.41
1:A:484:VAL:HG12	1:A:485:ILE:N	2.35	0.41
2:J:109:ILE:O	2:J:109:ILE:HD12	2.19	0.41
1:B:276:GLU:O	1:B:276:GLU:HG3	2.20	0.41
1:A:398:THR:O	1:A:398:THR:HG22	2.21	0.41
2:N:59:TRP:CD1	2:N:59:TRP:N	2.88	0.41
1:A:113:PRO:HG2	1:A:609:ASN:CB	2.38	0.41
2:I:124:PHE:C	2:I:126:ARG:N	2.73	0.41
2:G:65:LEU:HA	2:G:65:LEU:HD23	1.89	0.41
1:A:779:ASP:OD2	1:A:822:THR:O	2.39	0.41
1:A:130:GLN:HB3	1:A:131:LEU:H	1.62	0.41
1:B:762:ALA:O	1:B:763:LEU:HD23	2.20	0.41
1:B:636:LYS:O	1:B:637:LYS:HB2	2.21	0.41
1:B:638:MET:H	1:B:638:MET:HG2	1.34	0.41
2:C:106:ARG:HD3	2:C:106:ARG:N	2.14	0.41
1:A:229:ARG:O	1:A:242:PRO:CG	2.69	0.41
2:M:33:GLN:O	2:M:36:GLN:HB3	2.20	0.41
1:B:852:SER:O	1:B:854:LEU:N	2.41	0.41
2:O:5:TYR:CE2	2:O:131:ASN:HA	2.56	0.41
1:A:782:VAL:O	1:A:785:GLN:HG2	2.21	0.41
2:F:101:VAL:HG23	2:F:102:ARG:N	2.35	0.41
2:L:5:TYR:HE2	2:L:130:ASP:O	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:131:ASN:N	2:F:131:ASN:ND2	2.69	0.41
2:F:5:TYR:HE2	2:F:130:ASP:O	2.03	0.41
2:L:253:ILE:HG13	2:M:234:PHE:CE1	2.55	0.41
1:A:707:TYR:OH	1:A:754:ASN:HA	2.20	0.41
2:G:74:ASP:O	2:G:75:ALA:C	2.58	0.41
2:C:204:ASN:HB3	2:C:296:ARG:HB3	2.03	0.41
2:I:110:ALA:HB1	2:I:111:PRO:CD	2.51	0.41
1:A:303:LEU:HA	1:A:615:ASN:HD21	1.78	0.41
1:B:387:LEU:HD23	1:B:554:TYR:HE1	1.85	0.41
1:B:405:ILE:O	1:B:408:MET:HB2	2.21	0.41
2:J:23:LEU:CD2	2:J:25:SER:H	2.34	0.41
2:G:23:LEU:CD2	2:G:25:SER:H	2.33	0.41
1:A:368:THR:O	1:A:369:GLY:O	2.38	0.41
1:A:527:ARG:CG	1:A:527:ARG:NH1	2.83	0.41
1:A:406:SER:O	1:A:409:TRP:N	2.53	0.41
2:D:74:ASP:O	2:D:75:ALA:C	2.58	0.41
1:A:694:ARG:HD3	1:A:701:GLN:NE2	2.36	0.41
2:N:23:LEU:HD23	2:N:25:SER:H	1.85	0.41
2:L:5:TYR:HE2	2:L:131:ASN:HA	1.84	0.41
2:H:2:ASP:O	2:H:5:TYR:HB3	2.21	0.41
1:B:106:LYS:O	1:B:110:ASP:HB2	2.20	0.41
2:N:45:GLU:HG2	2:N:60:ASN:OD1	2.21	0.41
2:K:45:GLU:HG2	2:K:60:ASN:OD1	2.21	0.41
2:K:125:LYS:C	2:K:127:ILE:H	2.24	0.41
2:G:235:PRO:HA	2:G:249:PHE:O	2.21	0.41
2:M:235:PRO:HA	2:M:249:PHE:O	2.21	0.41
2:C:355:ILE:HA	2:C:356:PRO:HD3	1.96	0.41
2:M:204:ASN:HB3	2:M:296:ARG:HB3	2.03	0.41
2:D:168:ARG:HD2	2:D:175:ASN:O	2.20	0.41
1:A:660:ASP:C	1:A:662:MET:N	2.74	0.41
1:B:420:ILE:O	1:B:421:ARG:C	2.60	0.41
1:B:454:THR:HG22	1:B:457:GLN:H	1.86	0.41
1:B:516:GLN:HA	1:B:518:PHE:CE1	2.56	0.41
1:B:544:VAL:O	1:B:545:ASP:C	2.58	0.41
1:B:392:MET:CA	1:B:573:THR:HG23	2.50	0.41
1:B:589:GLY:C	1:B:591:ALA:H	2.25	0.41
1:A:319:ASP:OD2	1:A:571:LEU:CB	2.69	0.41
1:A:646:LEU:HD23	1:A:646:LEU:N	2.36	0.41
2:G:31:ILE:O	2:G:34:PHE:HB3	2.21	0.41
2:G:23:LEU:HD22	2:G:25:SER:H	1.86	0.41
2:I:74:ASP:OD2	2:I:76:ASN:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:705:ILE:HG23	1:A:705:ILE:O	2.20	0.41
1:A:578:LEU:HA	1:A:581:VAL:CG2	2.51	0.41
1:A:249:ASP:O	1:A:250:TYR:C	2.58	0.41
1:B:126:PHE:HB2	1:B:149:LYS:O	2.21	0.41
1:B:722:ASN:O	1:B:824:LYS:CB	2.65	0.41
1:A:266:ASN:O	1:A:267:ASN:C	2.60	0.41
1:B:681:ILE:HA	1:B:681:ILE:HD12	1.79	0.41
1:B:370:ILE:HG22	1:B:373:GLN:HB3	2.02	0.41
2:L:152:PHE:O	2:L:328:SER:HA	2.21	0.41
1:B:796:LYS:HA	1:B:797:PRO:HD3	1.88	0.41
2:N:89:VAL:C	2:N:91:PHE:N	2.73	0.41
1:A:282:VAL:C	1:A:284:TYR:H	2.24	0.41
2:E:1:MET:C	2:E:3:VAL:N	2.73	0.41
2:E:2:ASP:O	2:E:5:TYR:HB3	2.21	0.41
2:K:10:THR:O	2:K:14:ALA:HB2	2.20	0.41
2:N:2:ASP:O	2:N:3:VAL:C	2.57	0.41
2:N:2:ASP:O	2:N:5:TYR:HB3	2.21	0.41
2:N:1:MET:O	2:N:4:LEU:N	2.54	0.41
1:B:670:ARG:HH21	2:L:69:THR:HG21	1.85	0.41
2:F:124:PHE:C	2:F:126:ARG:N	2.73	0.41
2:E:125:LYS:C	2:E:127:ILE:H	2.24	0.41
2:N:125:LYS:C	2:N:127:ILE:H	2.24	0.41
2:J:235:PRO:HA	2:J:249:PHE:O	2.21	0.41
1:B:130:GLN:O	1:B:131:LEU:HD23	2.21	0.41
2:H:355:ILE:HA	2:H:356:PRO:HD3	1.96	0.41
2:F:110:ALA:HB1	2:F:111:PRO:CD	2.51	0.41
2:H:106:ARG:HB3	2:H:107:ASN:H	1.63	0.41
2:L:59:TRP:CD1	2:L:59:TRP:N	2.89	0.41
2:C:110:ALA:HB1	2:C:111:PRO:CD	2.51	0.41
1:A:301:PRO:O	1:A:303:LEU:HD21	2.20	0.41
1:B:499:ASP:O	1:B:500:GLY:O	2.39	0.41
2:C:140:ASN:O	2:C:143:ASN:N	2.51	0.41
1:B:646:LEU:N	1:B:646:LEU:HD23	2.36	0.41
1:A:678:ARG:HG2	1:A:678:ARG:H	1.63	0.41
2:F:152:PHE:O	2:F:328:SER:HA	2.21	0.41
2:N:24:TYR:HE1	2:N:31:ILE:HG13	1.85	0.41
2:I:5:TYR:O	2:I:6:SER:C	2.58	0.41
1:A:846:LEU:HA	1:A:846:LEU:HD23	1.78	0.41
2:N:235:PRO:HA	2:N:249:PHE:O	2.21	0.41
2:C:235:PRO:HA	2:C:249:PHE:O	2.20	0.41
1:B:237:ASN:ND2	1:B:237:ASN:N	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:204:ASN:HB3	2:G:296:ARG:HB3	2.03	0.41
2:D:109:ILE:HD12	2:D:109:ILE:O	2.19	0.41
1:B:498:ARG:CZ	2:J:25:SER:HG	2.21	0.40
1:B:508:GLU:OE2	2:J:71:LEU:C	2.59	0.40
1:B:876:ILE:HG13	1:B:877:MET:N	2.34	0.40
2:J:31:ILE:O	2:J:34:PHE:HB3	2.21	0.40
2:G:23:LEU:HD23	2:G:24:TYR:H	1.82	0.40
1:A:563:MET:O	1:A:565:MET:N	2.54	0.40
1:A:159:ASP:O	1:A:162:VAL:HB	2.22	0.40
1:A:774:LEU:HB2	1:A:800:TYR:CD2	2.56	0.40
1:A:779:ASP:CA	1:A:798:ILE:CD1	2.91	0.40
1:A:506:LEU:HD21	1:A:544:VAL:N	2.35	0.40
1:B:666:ARG:O	1:B:667:ASP:C	2.60	0.40
1:A:186:MET:O	1:A:187:ALA:O	2.39	0.40
1:B:378:CYS:HB2	1:B:580:SER:CB	2.50	0.40
1:B:244:ILE:O	1:B:244:ILE:HG23	2.21	0.40
1:A:697:ASP:HB3	1:A:765:PHE:CE2	2.53	0.40
2:L:89:VAL:C	2:L:91:PHE:N	2.73	0.40
1:B:842:LEU:HA	1:B:842:LEU:HD23	1.83	0.40
2:D:153:HIS:NE2	2:E:153:HIS:CD2	2.89	0.40
2:E:109:ILE:O	2:E:109:ILE:HG13	2.20	0.40
2:H:45:GLU:HG2	2:H:60:ASN:OD1	2.21	0.40
2:D:235:PRO:HA	2:D:249:PHE:O	2.21	0.40
2:L:62:ASP:H	2:L:63:PHE:HD1	1.70	0.40
1:A:642:VAL:HG13	1:A:665:LEU:HD23	2.02	0.40
2:J:23:LEU:HD22	2:J:25:SER:H	1.86	0.40
2:H:74:ASP:O	2:H:75:ALA:C	2.58	0.40
1:B:826:TYR:O	1:B:827:LYS:C	2.60	0.40
1:A:681:ILE:HG23	1:A:682:PHE:N	2.36	0.40
1:B:631:LEU:HA	1:B:631:LEU:HD23	1.74	0.40
2:D:65:LEU:HB3	2:D:66:LEU:H	1.73	0.40
1:B:133:ILE:HD11	1:B:147:TYR:CE1	2.56	0.40
2:O:2:ASP:O	2:O:5:TYR:HB3	2.20	0.40
1:B:654:VAL:CG1	1:B:655:ALA:H	2.31	0.40
2:I:5:TYR:HE2	2:I:131:ASN:HA	1.84	0.40
2:I:131:ASN:ND2	2:I:131:ASN:N	2.69	0.40
2:G:124:PHE:O	2:G:126:ARG:N	2.53	0.40
2:N:10:THR:O	2:N:14:ALA:HB2	2.20	0.40
1:B:833:PHE:CZ	1:B:835:PHE:CA	3.04	0.40
2:L:214:LEU:HD23	2:L:214:LEU:N	2.37	0.40
1:B:328:LEU:O	1:B:331:SER:HB3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:483:VAL:O	2:I:67:GLY:CA	2.69	0.40
1:A:183:LEU:O	1:A:184:LYS:C	2.59	0.40
2:L:110:ALA:HB1	2:L:111:PRO:CD	2.51	0.40
2:E:59:TRP:N	2:E:59:TRP:CD1	2.88	0.40
2:H:59:TRP:CD1	2:H:59:TRP:N	2.88	0.40
1:A:654:VAL:O	1:A:657:VAL:CG2	2.66	0.40
1:B:434:THR:O	1:B:435:ILE:CG1	2.69	0.40
1:B:503:ILE:C	1:B:505:GLN:N	2.74	0.40
1:B:549:LEU:O	1:B:550:LEU:C	2.57	0.40
1:B:305:GLN:HG3	1:B:564:ASN:HD21	1.86	0.40
1:B:745:ALA:CB	1:B:748:THR:CB	2.97	0.40
1:B:826:TYR:O	1:B:828:GLN:N	2.54	0.40
1:B:666:ARG:HA	1:B:669:LEU:HD12	2.02	0.40
1:B:413:VAL:O	1:B:414:VAL:C	2.59	0.40
1:B:673:PRO:C	1:B:674:VAL:CG2	2.90	0.40
1:B:807:ASN:C	1:B:809:PHE:N	2.74	0.40
1:A:636:LYS:O	1:A:637:LYS:C	2.60	0.40
1:A:135:ARG:C	1:A:136:ALA:O	2.57	0.40
1:A:216:GLU:HG2	1:A:218:GLU:H	1.86	0.40
2:M:23:LEU:HD22	2:M:25:SER:H	1.87	0.40
2:D:24:TYR:O	2:D:26:ASN:N	2.55	0.40
2:K:24:TYR:HE1	2:K:31:ILE:HG13	1.85	0.40
2:C:131:ASN:ND2	2:C:131:ASN:N	2.69	0.40
2:D:214:LEU:N	2:D:214:LEU:HD23	2.36	0.40
2:I:214:LEU:N	2:I:214:LEU:HD23	2.37	0.40
1:A:812:VAL:C	1:A:814:ASN:N	2.71	0.40
2:M:153:HIS:NE2	2:N:153:HIS:CD2	2.89	0.40
2:N:101:VAL:HB	2:N:355:ILE:HG21	2.03	0.40
1:A:411:LEU:HD23	1:A:411:LEU:HA	1.91	0.40
1:A:330:ARG:C	1:A:332:VAL:N	2.74	0.40
1:A:421:ARG:HG2	1:B:523:VAL:HG22	1.95	0.40
1:A:431:ILE:HG23	1:A:435:ILE:HD12	2.02	0.40
1:B:699:ILE:HG23	1:B:763:LEU:H	1.87	0.40
1:B:646:LEU:O	1:B:649:LEU:HB2	2.21	0.40
1:B:803:ASN:C	1:B:805:ASP:H	2.25	0.40
2:M:24:TYR:O	2:M:26:ASN:N	2.55	0.40
1:A:760:VAL:HG12	1:A:761:GLY:N	2.37	0.40
1:A:735:LEU:HG	1:A:760:VAL:O	2.21	0.40
1:A:827:LYS:O	1:A:828:GLN:O	2.39	0.40
2:E:24:TYR:HE1	2:E:31:ILE:HG13	1.85	0.40
2:J:125:LYS:O	2:J:127:ILE:N	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:2:ASP:O	2:K:5:TYR:HB3	2.21	0.40
2:L:116:LEU:O	2:L:119:LEU:N	2.52	0.40
2:M:214:LEU:N	2:M:214:LEU:HD23	2.37	0.40
2:K:78:VAL:O	2:K:81:ALA:HB3	2.22	0.40
1:A:153:ASP:O	1:A:155:LEU:N	2.55	0.40
2:H:125:LYS:C	2:H:127:ILE:H	2.24	0.40
1:B:235:ASP:O	1:B:237:ASN:N	2.49	0.40
2:I:62:ASP:H	2:I:63:PHE:HD1	1.70	0.40
1:A:341:SER:O	1:A:342:THR:C	2.60	0.40
2:L:204:ASN:HB3	2:L:296:ARG:HB3	2.03	0.40
1:A:388:SER:O	1:A:389:GLN:CG	2.70	0.40
1:A:649:LEU:C	1:A:650:HIS:O	2.59	0.40
1:A:314:PHE:HZ	1:A:664:ARG:HG2	1.85	0.40
1:B:394:LEU:N	1:B:423:SER:OG	2.54	0.40
1:B:415:PRO:O	1:B:416:ASN:C	2.58	0.40
1:B:441:GLY:O	1:B:442:MET:O	2.40	0.40
1:B:502:VAL:HG12	1:B:504:ASN:HD22	1.86	0.40
1:B:544:VAL:O	1:B:546:LEU:N	2.54	0.40
2:J:23:LEU:HD23	2:J:24:TYR:H	1.82	0.40
2:J:24:TYR:O	2:J:26:ASN:N	2.55	0.40
1:B:745:ALA:C	1:B:747:ILE:N	2.74	0.40
2:M:74:ASP:O	2:M:75:ALA:C	2.58	0.40
1:A:803:ASN:H	1:A:807:ASN:ND2	2.20	0.40
1:B:292:LEU:HD23	1:B:292:LEU:HA	1.88	0.40
1:B:295:THR:O	1:B:297:ARG:HG2	2.21	0.40
1:B:204:THR:HG23	1:B:244:ILE:H	1.86	0.40
2:E:69:THR:HG22	2:E:70:LEU:H	1.87	0.40
2:D:65:LEU:HD23	2:D:65:LEU:HA	1.88	0.40
1:B:604:TYR:O	1:B:605:ASN:C	2.58	0.40
2:D:4:LEU:HA	2:D:7:LEU:CD1	2.48	0.40
2:L:131:ASN:N	2:L:131:ASN:ND2	2.69	0.40
2:E:119:LEU:C	2:E:121:GLY:N	2.75	0.40
2:M:116:LEU:O	2:M:117:ILE:C	2.60	0.40
2:G:153:HIS:NE2	2:H:153:HIS:CD2	2.89	0.40
2:J:153:HIS:NE2	2:K:153:HIS:CD2	2.89	0.40
2:O:13:ASP:O	2:O:17:LYS:HB2	2.21	0.40
2:H:378:ARG:O	2:H:382:LEU:HB2	2.22	0.40
2:F:78:VAL:O	2:F:81:ALA:HB3	2.22	0.40
2:L:78:VAL:O	2:L:81:ALA:HB3	2.22	0.40
2:C:78:VAL:O	2:C:81:ALA:HB3	2.22	0.40
2:H:101:VAL:HB	2:H:355:ILE:HG21	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:622:VAL:O	1:B:623:ALA:C	2.59	0.40
2:F:204:ASN:HB3	2:F:296:ARG:HB3	2.03	0.40
2:H:204:ASN:HB3	2:H:296:ARG:HB3	2.03	0.40
1:A:880:LEU:H	1:A:880:LEU:HG	1.53	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	A	780/800 (98%)	433 (56%)	201 (26%)	146 (19%)	0	3
1	B	798/800 (100%)	460 (58%)	210 (26%)	128 (16%)	0	5
2	C	395/397 (100%)	326 (82%)	49 (12%)	20 (5%)	2	31
2	D	395/397 (100%)	330 (84%)	43 (11%)	22 (6%)	2	29
2	E	395/397 (100%)	331 (84%)	45 (11%)	19 (5%)	3	32
2	F	395/397 (100%)	326 (82%)	49 (12%)	20 (5%)	2	31
2	G	395/397 (100%)	329 (83%)	45 (11%)	21 (5%)	2	30
2	H	395/397 (100%)	331 (84%)	45 (11%)	19 (5%)	3	32
2	I	395/397 (100%)	326 (82%)	49 (12%)	20 (5%)	2	31
2	J	395/397 (100%)	329 (83%)	45 (11%)	21 (5%)	2	30
2	K	395/397 (100%)	331 (84%)	45 (11%)	19 (5%)	3	32
2	L	395/397 (100%)	326 (82%)	49 (12%)	20 (5%)	2	31
2	M	395/397 (100%)	330 (84%)	44 (11%)	21 (5%)	2	30
2	N	395/397 (100%)	331 (84%)	45 (11%)	19 (5%)	3	32
2	O	395/397 (100%)	320 (81%)	52 (13%)	23 (6%)	2	28
All	All	6713/6761 (99%)	5159 (77%)	1016 (15%)	538 (8%)	2	19

All (538) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	102	GLU
1	A	131	LEU
1	A	154	THR
1	A	187	ALA
1	A	198	LYS
1	A	219	GLY
1	A	220	ALA
1	A	226	ALA
1	A	227	GLU
1	A	252	PHE
1	A	283	ASN
1	A	299	ILE
1	A	306	ASP
1	A	315	GLU
1	A	338	GLU
1	A	340	VAL
1	A	363	GLU
1	A	413	VAL
1	A	416	ASN
1	A	443	GLN
1	A	446	HIS
1	A	452	PRO
1	A	453	GLN
1	A	484	VAL
1	A	488	VAL
1	A	489	LEU
1	A	497	ILE
1	A	523	VAL
1	A	525	TYR
1	A	558	MET
1	A	559	ALA
1	A	585	CYS
1	A	650	HIS
1	A	651	ILE
1	A	660	ASP
1	A	661	GLN
1	A	701	GLN
1	A	743	ASP
1	A	770	SER
1	A	771	VAL
1	A	772	ILE
1	A	781	THR

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Mol	Chain	Res	Type
1	A	782	VAL
1	A	785	GLN
1	A	786	ILE
1	A	793	ASP
1	A	808	ASP
1	A	814	ASN
1	A	816	ASP
1	A	818	VAL
1	A	828	GLN
1	A	847	THR
1	A	855	LEU
1	A	856	ALA
1	A	866	ILE
1	A	877	MET
1	B	191	LYS
1	B	195	ASP
1	B	196	ALA
1	B	200	VAL
1	B	215	GLU
1	B	226	ALA
1	B	227	GLU
1	B	230	GLN
1	B	236	ARG
1	B	252	PHE
1	B	261	LEU
1	B	264	PRO
1	B	283	ASN
1	B	306	ASP
1	B	361	GLN
1	B	369	GLY
1	B	398	THR
1	B	400	ASN
1	B	436	ILE
1	B	442	MET
1	B	446	HIS
1	B	447	TYR
1	B	457	GLN
1	B	458	ILE
1	B	461	GLN
1	B	479	GLN
1	B	481	ARG
1	B	487	GLY

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Mol	Chain	Res	Type
1	B	488	VAL
1	B	500	GLY
1	B	504	ASN
1	B	519	PRO
1	B	520	THR
1	B	585	CYS
1	B	632	ASN
1	B	638	MET
1	B	651	ILE
1	B	654	VAL
1	B	655	ALA
1	B	728	ASP
1	B	764	PRO
1	B	782	VAL
1	B	785	GLN
1	B	786	ILE
1	B	787	VAL
1	B	788	LYS
1	B	790	ARG
1	B	806	SER
1	B	855	LEU
1	B	856	ALA
1	B	875	ARG
2	C	22	THR
2	C	70	LEU
2	C	134	GLU
2	D	72	ASN
2	D	134	GLU
2	E	25	SER
2	E	106	ARG
2	E	134	GLU
2	F	22	THR
2	F	70	LEU
2	F	134	GLU
2	G	72	ASN
2	G	134	GLU
2	H	25	SER
2	H	106	ARG
2	H	134	GLU
2	I	22	THR
2	I	70	LEU
2	I	134	GLU

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Mol	Chain	Res	Type
2	J	72	ASN
2	J	134	GLU
2	K	25	SER
2	K	106	ARG
2	K	134	GLU
2	L	22	THR
2	L	70	LEU
2	L	134	GLU
2	M	72	ASN
2	M	134	GLU
2	N	25	SER
2	N	106	ARG
2	N	134	GLU
2	O	24	TYR
2	O	25	SER
2	O	65	LEU
2	O	68	THR
2	O	70	LEU
2	O	134	GLU
2	O	145	ARG
1	A	142	LEU
1	A	143	ARG
1	A	188	VAL
1	A	193	SER
1	A	215	GLU
1	A	253	ASN
1	A	260	GLN
1	A	265	LEU
1	A	276	GLU
1	A	307	ARG
1	A	356	GLU
1	A	369	GLY
1	A	370	ILE
1	A	422	GLU
1	A	457	GLN
1	A	465	ASN
1	A	498	ARG
1	A	500	GLY
1	A	503	ILE
1	A	564	ASN
1	A	573	THR
1	A	648	ARG

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Mol	Chain	Res	Type
1	A	680	ASP
1	A	689	MET
1	A	790	ARG
1	A	804	SER
1	A	811	LEU
1	A	815	TYR
1	A	854	LEU
1	A	857	PHE
1	B	218	GLU
1	B	253	ASN
1	B	282	VAL
1	B	399	THR
1	B	434	THR
1	B	435	ILE
1	B	452	PRO
1	B	491	GLN
1	B	493	LEU
1	B	524	ASP
1	B	637	LYS
1	B	676	VAL
1	B	699	ILE
1	B	792	VAL
1	B	836	ARG
1	B	849	THR
2	C	20	GLU
2	C	25	SER
2	D	20	GLU
2	D	25	SER
2	D	42	ASN
2	D	126	ARG
2	D	148	THR
2	E	22	THR
2	E	70	LEU
2	E	148	THR
2	F	20	GLU
2	F	25	SER
2	G	20	GLU
2	G	25	SER
2	G	42	ASN
2	G	126	ARG
2	G	148	THR
2	H	22	THR

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Mol	Chain	Res	Type
2	H	70	LEU
2	H	148	THR
2	I	20	GLU
2	I	25	SER
2	J	20	GLU
2	J	25	SER
2	J	42	ASN
2	J	126	ARG
2	J	148	THR
2	K	22	THR
2	K	70	LEU
2	K	148	THR
2	L	20	GLU
2	L	25	SER
2	M	20	GLU
2	M	25	SER
2	M	42	ASN
2	M	126	ARG
2	M	148	THR
2	N	22	THR
2	N	70	LEU
2	N	148	THR
2	O	22	THR
2	O	73	LEU
2	O	126	ARG
2	O	148	THR
1	A	130	GLN
1	A	137	ASN
1	A	155	LEU
1	A	195	ASP
1	A	212	PHE
1	A	235	ASP
1	A	254	GLU
1	A	261	LEU
1	A	264	PRO
1	A	275	PRO
1	A	361	GLN
1	A	387	LEU
1	A	389	GLN
1	A	447	TYR
1	A	496	ASN
1	A	521	MET

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Mol	Chain	Res	Type
1	A	552	TYR
1	A	560	CYS
1	A	579	THR
1	A	597	PRO
1	A	608	VAL
1	A	630	ARG
1	A	687	MET
1	A	696	SER
1	A	779	ASP
1	A	823	THR
1	B	103	SER
1	B	254	GLU
1	B	265	LEU
1	B	313	ASN
1	B	355	LEU
1	B	359	THR
1	B	388	SER
1	B	416	ASN
1	B	496	ASN
1	B	498	ARG
1	B	503	ILE
1	B	579	THR
1	B	608	VAL
1	B	634	TYR
1	B	640	ALA
1	B	656	ARG
1	B	673	PRO
1	B	835	PHE
2	C	7	LEU
2	C	42	ASN
2	C	130	ASP
2	D	7	LEU
2	D	65	LEU
2	D	106	ARG
2	D	123	LYS
2	D	128	ASN
2	E	7	LEU
2	E	31	ILE
2	F	7	LEU
2	F	42	ASN
2	F	130	ASP
2	G	7	LEU

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Mol	Chain	Res	Type
2	G	65	LEU
2	G	106	ARG
2	G	123	LYS
2	G	128	ASN
2	H	7	LEU
2	H	31	ILE
2	I	7	LEU
2	I	42	ASN
2	I	130	ASP
2	J	7	LEU
2	J	65	LEU
2	J	106	ARG
2	J	123	LYS
2	J	128	ASN
2	K	7	LEU
2	K	31	ILE
2	K	32	GLN
2	L	7	LEU
2	L	42	ASN
2	L	130	ASP
2	M	7	LEU
2	M	65	LEU
2	M	106	ARG
2	M	123	LYS
2	M	128	ASN
2	N	7	LEU
2	N	31	ILE
2	O	7	LEU
2	O	42	ASN
2	O	90	ASP
2	O	128	ASN
1	A	201	ASP
1	A	246	HIS
1	A	313	ASN
1	A	403	SER
1	A	518	PHE
1	A	524	ASP
1	A	549	LEU
1	A	557	LEU
1	A	581	VAL
1	A	730	PHE
1	A	819	PRO

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Mol	Chain	Res	Type
1	A	844	SER
1	B	85	GLU
1	B	193	SER
1	B	212	PHE
1	B	338	GLU
1	B	372	SER
1	B	403	SER
1	B	460	GLU
1	B	465	ASN
1	B	545	ASP
1	B	549	LEU
1	B	552	TYR
1	B	559	ALA
1	B	597	PRO
1	B	702	GLY
1	B	734	ASN
1	B	738	LEU
1	B	805	ASP
1	B	827	LYS
1	B	877	MET
2	C	13	ASP
2	C	31	ILE
2	C	32	GLN
2	C	36	GLN
2	C	90	ASP
2	C	106	ARG
2	C	148	THR
2	D	13	ASP
2	D	31	ILE
2	D	32	GLN
2	D	36	GLN
2	D	67	GLY
2	D	90	ASP
2	D	125	LYS
2	E	13	ASP
2	E	32	GLN
2	E	36	GLN
2	E	62	ASP
2	E	90	ASP
2	E	141	LEU
2	F	13	ASP
2	F	31	ILE

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Mol	Chain	Res	Type
2	F	32	GLN
2	F	36	GLN
2	F	90	ASP
2	F	106	ARG
2	F	148	THR
2	G	13	ASP
2	G	31	ILE
2	G	32	GLN
2	G	36	GLN
2	G	67	GLY
2	G	90	ASP
2	G	125	LYS
2	H	13	ASP
2	H	32	GLN
2	H	36	GLN
2	H	62	ASP
2	H	90	ASP
2	H	141	LEU
2	I	13	ASP
2	I	31	ILE
2	I	32	GLN
2	I	36	GLN
2	I	90	ASP
2	I	106	ARG
2	I	148	THR
2	J	13	ASP
2	J	31	ILE
2	J	32	GLN
2	J	36	GLN
2	J	67	GLY
2	J	90	ASP
2	J	125	LYS
2	K	13	ASP
2	K	36	GLN
2	K	62	ASP
2	K	90	ASP
2	K	141	LEU
2	L	13	ASP
2	L	31	ILE
2	L	32	GLN
2	L	36	GLN
2	L	90	ASP

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Mol	Chain	Res	Type
2	L	106	ARG
2	L	148	THR
2	M	31	ILE
2	M	32	GLN
2	M	36	GLN
2	M	67	GLY
2	M	90	ASP
2	M	125	LYS
2	N	13	ASP
2	N	32	GLN
2	N	36	GLN
2	N	62	ASP
2	N	90	ASP
2	N	141	LEU
2	O	31	ILE
2	O	32	GLN
2	O	36	GLN
2	O	105	GLN
1	A	206	SER
1	A	415	PRO
1	A	444	ARG
1	A	606	VAL
1	A	674	VAL
1	A	717	MET
1	B	99	GLU
1	B	101	LYS
1	B	123	PHE
1	B	128	PRO
1	B	141	GLU
1	B	437	TYR
1	B	451	ASP
1	B	521	MET
1	B	553	ASN
1	B	557	LEU
1	B	581	VAL
1	B	677	ARG
1	B	801	LYS
2	C	126	ARG
2	C	129	PHE
2	E	130	ASP
2	F	38	ILE
2	F	126	ARG

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Mol	Chain	Res	Type
2	F	129	PHE
2	F	141	LEU
2	H	130	ASP
2	I	126	ARG
2	I	129	PHE
2	I	141	LEU
2	K	130	ASP
2	L	38	ILE
2	L	126	ARG
2	L	129	PHE
2	M	13	ASP
2	O	13	ASP
2	O	125	LYS
1	A	152	LYS
1	A	333	VAL
1	A	372	SER
1	A	438	PRO
1	A	677	ARG
1	A	733	ILE
1	A	773	SER
1	A	784	ALA
1	B	86	ILE
1	B	206	SER
1	B	606	VAL
1	B	678	ARG
2	C	38	ILE
2	C	141	LEU
2	D	38	ILE
2	D	141	LEU
2	E	38	ILE
2	E	126	ARG
2	E	129	PHE
2	G	38	ILE
2	H	38	ILE
2	H	126	ARG
2	H	129	PHE
2	I	38	ILE
2	J	38	ILE
2	K	38	ILE
2	K	126	ARG
2	K	129	PHE
2	L	141	LEU

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Mol	Chain	Res	Type
2	M	38	ILE
2	N	38	ILE
2	N	126	ARG
2	N	129	PHE
2	N	130	ASP
2	O	38	ILE
1	A	658	PRO
1	B	177	MET
2	D	3	VAL
2	E	3	VAL
2	F	3	VAL
2	G	3	VAL
2	H	3	VAL
2	I	3	VAL
2	J	3	VAL
2	K	3	VAL
2	L	3	VAL
2	M	3	VAL
2	N	3	VAL
2	O	3	VAL
1	A	502	VAL
1	B	125	ILE
1	B	207	ILE
2	C	3	VAL
1	A	199	VAL
1	A	207	ILE
1	A	622	VAL
1	A	676	VAL
1	A	383	ILE
1	A	414	VAL
1	B	438	PRO
1	B	454	THR
1	B	544	VAL
1	B	370	ILE

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	716/734 (98%)	628 (88%)	88 (12%)	6	34
1	B	734/734 (100%)	645 (88%)	89 (12%)	6	34
2	C	350/350 (100%)	329 (94%)	21 (6%)	24	65
2	D	350/350 (100%)	328 (94%)	22 (6%)	22	63
2	E	350/350 (100%)	329 (94%)	21 (6%)	24	65
2	F	350/350 (100%)	329 (94%)	21 (6%)	24	65
2	G	350/350 (100%)	328 (94%)	22 (6%)	22	63
2	H	350/350 (100%)	329 (94%)	21 (6%)	24	65
2	I	350/350 (100%)	329 (94%)	21 (6%)	24	65
2	J	350/350 (100%)	328 (94%)	22 (6%)	22	63
2	K	350/350 (100%)	329 (94%)	21 (6%)	24	65
2	L	350/350 (100%)	329 (94%)	21 (6%)	24	65
2	M	350/350 (100%)	328 (94%)	22 (6%)	22	63
2	N	350/350 (100%)	329 (94%)	21 (6%)	24	65
2	O	350/350 (100%)	331 (95%)	19 (5%)	27	68
All	All	6000/6018 (100%)	5548 (92%)	452 (8%)	21	57

All (452) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	108	LEU
1	A	125	ILE
1	A	126	PHE
1	A	180	TYR
1	A	193	SER
1	A	195	ASP
1	A	204	THR
1	A	215	GLU
1	A	216	GLU
1	A	227	GLU
1	A	229	ARG
1	A	230	GLN
1	A	239	VAL
1	A	247	PRO
1	A	259	HIS
1	A	271	PHE
1	A	273	TYR
1	A	275	PRO

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Mol	Chain	Res	Type
1	A	286	LEU
1	A	288	MET
1	A	298	TYR
1	A	303	LEU
1	A	306	ASP
1	A	311	HIS
1	A	312	ASP
1	A	316	SER
1	A	318	TRP
1	A	347	GLN
1	A	348	LYS
1	A	360	ILE
1	A	366	PHE
1	A	382	LEU
1	A	388	SER
1	A	389	GLN
1	A	392	MET
1	A	401	TYR
1	A	403	SER
1	A	404	LEU
1	A	409	TRP
1	A	423	SER
1	A	428	GLN
1	A	452	PRO
1	A	456	PHE
1	A	471	TRP
1	A	505	GLN
1	A	514	SER
1	A	515	ARG
1	A	520	THR
1	A	521	MET
1	A	525	TYR
1	A	534	LEU
1	A	537	SER
1	A	540	LEU
1	A	560	CYS
1	A	564	ASN
1	A	565	MET
1	A	571	LEU
1	A	573	THR
1	A	587	LEU
1	A	601	PHE

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Mol	Chain	Res	Type
1	A	606	VAL
1	A	611	HIS
1	A	616	GLU
1	A	634	TYR
1	A	638	MET
1	A	649	LEU
1	A	650	HIS
1	A	656	ARG
1	A	657	VAL
1	A	680	ASP
1	A	690	ASP
1	A	699	ILE
1	A	701	GLN
1	A	707	TYR
1	A	720	TYR
1	A	730	PHE
1	A	743	ASP
1	A	765	PHE
1	A	793	ASP
1	A	798	ILE
1	A	801	LYS
1	A	816	ASP
1	A	839	MET
1	A	843	THR
1	A	848	PHE
1	A	849	THR
1	A	854	LEU
1	A	864	GLU
1	B	81	GLU
1	B	88	TYR
1	B	126	PHE
1	B	134	TYR
1	B	135	ARG
1	B	137	ASN
1	B	153	ASP
1	B	157	ASP
1	B	180	TYR
1	B	190	ASN
1	B	194	ARG
1	B	201	ASP
1	B	204	THR
1	B	235	ASP

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Mol	Chain	Res	Type
1	B	236	ARG
1	B	271	PHE
1	B	286	LEU
1	B	298	TYR
1	B	310	LEU
1	B	311	HIS
1	B	314	PHE
1	B	316	SER
1	B	318	TRP
1	B	332	VAL
1	B	347	GLN
1	B	348	LYS
1	B	352	ASP
1	B	358	LEU
1	B	382	LEU
1	B	392	MET
1	B	401	TYR
1	B	403	SER
1	B	404	LEU
1	B	409	TRP
1	B	419	PHE
1	B	428	GLN
1	B	433	ASN
1	B	443	GLN
1	B	471	TRP
1	B	478	ASN
1	B	494	ASN
1	B	495	ASP
1	B	505	GLN
1	B	514	SER
1	B	518	PHE
1	B	521	MET
1	B	524	ASP
1	B	525	TYR
1	B	527	ARG
1	B	534	LEU
1	B	537	SER
1	B	540	LEU
1	B	560	CYS
1	B	590	ASN
1	B	601	PHE
1	B	606	VAL

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Mol	Chain	Res	Type
1	B	611	HIS
1	B	616	GLU
1	B	633	LEU
1	B	634	TYR
1	B	638	MET
1	B	652	PHE
1	B	653	ASP
1	B	660	ASP
1	B	680	ASP
1	B	690	ASP
1	B	697	ASP
1	B	707	TYR
1	B	720	TYR
1	B	730	PHE
1	B	734	ASN
1	B	737	GLU
1	B	739	MET
1	B	744	TYR
1	B	774	LEU
1	B	783	PHE
1	B	790	ARG
1	B	791	LYS
1	B	800	TYR
1	B	808	ASP
1	B	810	TYR
1	B	811	LEU
1	B	812	VAL
1	B	839	MET
1	B	844	SER
1	B	854	LEU
1	B	871	PHE
1	B	872	ASP
1	B	876	ILE
2	C	13	ASP
2	C	26	ASN
2	C	59	TRP
2	C	103	GLU
2	C	106	ARG
2	C	129	PHE
2	C	142	GLN
2	C	143	ASN
2	C	150	PHE

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Mol	Chain	Res	Type
2	C	152	PHE
2	C	170	GLN
2	C	214	LEU
2	C	225	LEU
2	C	255	ARG
2	C	274	GLN
2	C	284	ASN
2	C	370	LEU
2	C	374	TYR
2	C	378	ARG
2	C	382	LEU
2	C	385	VAL
2	D	1	MET
2	D	13	ASP
2	D	45	GLU
2	D	70	LEU
2	D	106	ARG
2	D	109	ILE
2	D	129	PHE
2	D	142	GLN
2	D	143	ASN
2	D	150	PHE
2	D	152	PHE
2	D	170	GLN
2	D	214	LEU
2	D	225	LEU
2	D	255	ARG
2	D	274	GLN
2	D	284	ASN
2	D	370	LEU
2	D	374	TYR
2	D	378	ARG
2	D	382	LEU
2	D	385	VAL
2	E	1	MET
2	E	13	ASP
2	E	59	TRP
2	E	69	THR
2	E	103	GLU
2	E	107	ASN
2	E	129	PHE
2	E	142	GLN

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Mol	Chain	Res	Type
2	E	150	PHE
2	E	152	PHE
2	E	170	GLN
2	E	214	LEU
2	E	225	LEU
2	E	255	ARG
2	E	274	GLN
2	E	284	ASN
2	E	370	LEU
2	E	374	TYR
2	E	378	ARG
2	E	382	LEU
2	E	385	VAL
2	F	13	ASP
2	F	26	ASN
2	F	59	TRP
2	F	103	GLU
2	F	106	ARG
2	F	129	PHE
2	F	142	GLN
2	F	143	ASN
2	F	150	PHE
2	F	152	PHE
2	F	170	GLN
2	F	214	LEU
2	F	225	LEU
2	F	255	ARG
2	F	274	GLN
2	F	284	ASN
2	F	370	LEU
2	F	374	TYR
2	F	378	ARG
2	F	382	LEU
2	F	385	VAL
2	G	1	MET
2	G	13	ASP
2	G	45	GLU
2	G	70	LEU
2	G	106	ARG
2	G	109	ILE
2	G	129	PHE
2	G	142	GLN

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Mol	Chain	Res	Type
2	G	143	ASN
2	G	150	PHE
2	G	152	PHE
2	G	170	GLN
2	G	214	LEU
2	G	225	LEU
2	G	255	ARG
2	G	274	GLN
2	G	284	ASN
2	G	370	LEU
2	G	374	TYR
2	G	378	ARG
2	G	382	LEU
2	G	385	VAL
2	H	1	MET
2	H	13	ASP
2	H	59	TRP
2	H	69	THR
2	H	103	GLU
2	H	107	ASN
2	H	129	PHE
2	H	142	GLN
2	H	150	PHE
2	H	152	PHE
2	H	170	GLN
2	H	214	LEU
2	H	225	LEU
2	H	255	ARG
2	H	274	GLN
2	H	284	ASN
2	H	370	LEU
2	H	374	TYR
2	H	378	ARG
2	H	382	LEU
2	H	385	VAL
2	I	13	ASP
2	I	26	ASN
2	I	59	TRP
2	I	103	GLU
2	I	106	ARG
2	I	129	PHE
2	I	142	GLN

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Mol	Chain	Res	Type
2	I	143	ASN
2	I	150	PHE
2	I	152	PHE
2	I	170	GLN
2	I	214	LEU
2	I	225	LEU
2	I	255	ARG
2	I	274	GLN
2	I	284	ASN
2	I	370	LEU
2	I	374	TYR
2	I	378	ARG
2	I	382	LEU
2	I	385	VAL
2	J	1	MET
2	J	13	ASP
2	J	45	GLU
2	J	70	LEU
2	J	106	ARG
2	J	109	ILE
2	J	129	PHE
2	J	142	GLN
2	J	143	ASN
2	J	150	PHE
2	J	152	PHE
2	J	170	GLN
2	J	214	LEU
2	J	225	LEU
2	J	255	ARG
2	J	274	GLN
2	J	284	ASN
2	J	370	LEU
2	J	374	TYR
2	J	378	ARG
2	J	382	LEU
2	J	385	VAL
2	K	1	MET
2	K	13	ASP
2	K	59	TRP
2	K	69	THR
2	K	103	GLU
2	K	107	ASN

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Mol	Chain	Res	Type
2	K	129	PHE
2	K	142	GLN
2	K	150	PHE
2	K	152	PHE
2	K	170	GLN
2	K	214	LEU
2	K	225	LEU
2	K	255	ARG
2	K	274	GLN
2	K	284	ASN
2	K	370	LEU
2	K	374	TYR
2	K	378	ARG
2	K	382	LEU
2	K	385	VAL
2	L	13	ASP
2	L	26	ASN
2	L	59	TRP
2	L	103	GLU
2	L	106	ARG
2	L	129	PHE
2	L	142	GLN
2	L	143	ASN
2	L	150	PHE
2	L	152	PHE
2	L	170	GLN
2	L	214	LEU
2	L	225	LEU
2	L	255	ARG
2	L	274	GLN
2	L	284	ASN
2	L	370	LEU
2	L	374	TYR
2	L	378	ARG
2	L	382	LEU
2	L	385	VAL
2	M	1	MET
2	M	13	ASP
2	M	45	GLU
2	M	70	LEU
2	M	106	ARG
2	M	109	ILE

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Mol	Chain	Res	Type
2	M	129	PHE
2	M	142	GLN
2	M	143	ASN
2	M	150	PHE
2	M	152	PHE
2	M	170	GLN
2	M	214	LEU
2	M	225	LEU
2	M	255	ARG
2	M	274	GLN
2	M	284	ASN
2	M	370	LEU
2	M	374	TYR
2	M	378	ARG
2	M	382	LEU
2	M	385	VAL
2	N	1	MET
2	N	13	ASP
2	N	59	TRP
2	N	69	THR
2	N	103	GLU
2	N	107	ASN
2	N	129	PHE
2	N	142	GLN
2	N	150	PHE
2	N	152	PHE
2	N	170	GLN
2	N	214	LEU
2	N	225	LEU
2	N	255	ARG
2	N	274	GLN
2	N	284	ASN
2	N	370	LEU
2	N	374	TYR
2	N	378	ARG
2	N	382	LEU
2	N	385	VAL
2	O	13	ASP
2	O	103	GLU
2	O	106	ARG
2	O	109	ILE
2	O	129	PHE

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Mol	Chain	Res	Type
2	O	142	GLN
2	O	150	PHE
2	O	152	PHE
2	O	170	GLN
2	O	214	LEU
2	O	225	LEU
2	O	255	ARG
2	O	274	GLN
2	O	284	ASN
2	O	370	LEU
2	O	374	TYR
2	O	378	ARG
2	O	382	LEU
2	O	385	VAL

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (196) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	137	ASN
1	A	168	ASN
1	A	246	HIS
1	A	260	GLN
1	A	309	ASN
1	A	347	GLN
1	A	443	GLN
1	A	453	GLN
1	A	473	HIS
1	A	476	ASN
1	A	478	ASN
1	A	490	ASN
1	A	496	ASN
1	A	505	GLN
1	A	512	GLN
1	A	553	ASN
1	A	566	GLN
1	A	605	ASN
1	A	615	ASN
1	A	661	GLN
1	A	683	ASN
1	A	701	GLN
1	A	726	ASN
1	A	732	GLN

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Mol	Chain	Res	Type
1	A	803	ASN
1	A	840	HIS
1	A	873	ASN
1	B	119	GLN
1	B	168	ASN
1	B	190	ASN
1	B	237	ASN
1	B	240	ASN
1	B	246	HIS
1	B	258	GLN
1	B	259	HIS
1	B	283	ASN
1	B	302	ASN
1	B	305	GLN
1	B	311	HIS
1	B	347	GLN
1	B	371	ASN
1	B	433	ASN
1	B	446	HIS
1	B	449	ASN
1	B	461	GLN
1	B	464	GLN
1	B	465	ASN
1	B	467	GLN
1	B	477	ASN
1	B	478	ASN
1	B	491	GLN
1	B	501	HIS
1	B	504	ASN
1	B	505	GLN
1	B	538	ASN
1	B	553	ASN
1	B	564	ASN
1	B	590	ASN
1	B	605	ASN
1	B	611	HIS
1	B	615	ASN
1	B	635	GLN
1	B	683	ASN
1	B	688	ASN
1	B	711	GLN
1	B	731	GLN

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Mol	Chain	Res	Type
1	B	807	ASN
1	B	814	ASN
1	B	840	HIS
1	B	878	ASN
2	C	26	ASN
2	C	94	ASN
2	C	131	ASN
2	C	140	ASN
2	C	167	ASN
2	C	274	GLN
2	C	284	ASN
2	C	345	ASN
2	D	94	ASN
2	D	131	ASN
2	D	140	ASN
2	D	142	GLN
2	D	146	GLN
2	D	167	ASN
2	D	274	GLN
2	D	284	ASN
2	D	345	ASN
2	E	26	ASN
2	E	53	ASN
2	E	94	ASN
2	E	107	ASN
2	E	131	ASN
2	E	140	ASN
2	E	142	GLN
2	E	167	ASN
2	E	274	GLN
2	E	284	ASN
2	E	345	ASN
2	F	26	ASN
2	F	32	GLN
2	F	94	ASN
2	F	131	ASN
2	F	140	ASN
2	F	142	GLN
2	F	167	ASN
2	F	274	GLN
2	F	284	ASN
2	F	345	ASN

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Mol	Chain	Res	Type
2	G	94	ASN
2	G	131	ASN
2	G	140	ASN
2	G	142	GLN
2	G	146	GLN
2	G	167	ASN
2	G	274	GLN
2	G	284	ASN
2	G	345	ASN
2	H	26	ASN
2	H	53	ASN
2	H	94	ASN
2	H	107	ASN
2	H	131	ASN
2	H	140	ASN
2	H	142	GLN
2	H	167	ASN
2	H	274	GLN
2	H	284	ASN
2	H	345	ASN
2	I	26	ASN
2	I	32	GLN
2	I	76	ASN
2	I	94	ASN
2	I	131	ASN
2	I	140	ASN
2	I	167	ASN
2	I	274	GLN
2	I	284	ASN
2	I	345	ASN
2	J	94	ASN
2	J	131	ASN
2	J	140	ASN
2	J	142	GLN
2	J	146	GLN
2	J	167	ASN
2	J	274	GLN
2	J	284	ASN
2	J	345	ASN
2	K	26	ASN
2	K	53	ASN
2	K	94	ASN

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Mol	Chain	Res	Type
2	K	131	ASN
2	K	140	ASN
2	K	167	ASN
2	K	274	GLN
2	K	284	ASN
2	K	345	ASN
2	L	26	ASN
2	L	94	ASN
2	L	131	ASN
2	L	140	ASN
2	L	142	GLN
2	L	167	ASN
2	L	274	GLN
2	L	284	ASN
2	L	345	ASN
2	M	94	ASN
2	M	131	ASN
2	M	140	ASN
2	M	142	GLN
2	M	146	GLN
2	M	167	ASN
2	M	274	GLN
2	M	284	ASN
2	M	345	ASN
2	N	26	ASN
2	N	32	GLN
2	N	53	ASN
2	N	94	ASN
2	N	107	ASN
2	N	131	ASN
2	N	140	ASN
2	N	142	GLN
2	N	167	ASN
2	N	274	GLN
2	N	284	ASN
2	N	345	ASN
2	O	26	ASN
2	O	53	ASN
2	O	131	ASN
2	O	140	ASN
2	O	142	GLN
2	O	143	ASN

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Mol	Chain	Res	Type
2	O	167	ASN
2	O	274	GLN
2	O	284	ASN
2	O	345	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 carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 5 ligands modelled in this entry, 5 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.