



## Full wwPDB EM Validation Report ⓘ

Nov 19, 2022 – 02:34 PM EST

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

We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

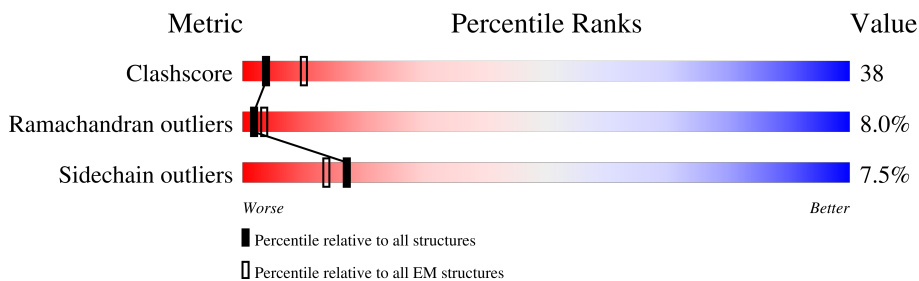
# 1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

*ELECTRON MICROSCOPY*

The reported resolution of this entry is 3.80 Å.

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



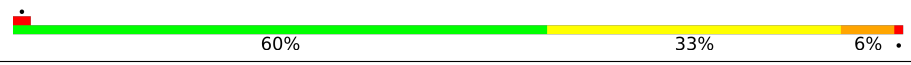
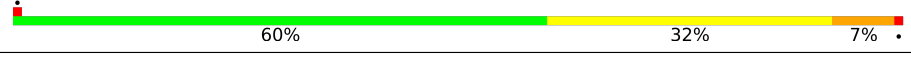


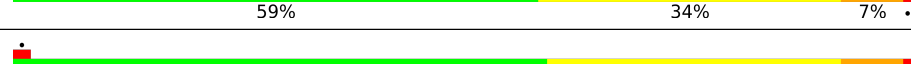
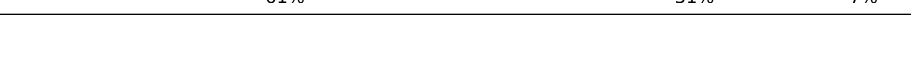
Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

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

Mol	Chain	Length	Quality of chain
1	A	800	
1	B	800	
2	C	397	
2	D	397	
2	E	397	
2	F	397	
2	G	397	
2	H	397	

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Mol	Chain	Length	Quality of chain
2	I	397	 60% 33% 6%
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
			Total	C	N	O	S		
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
			Total	C	N	O	S		
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		

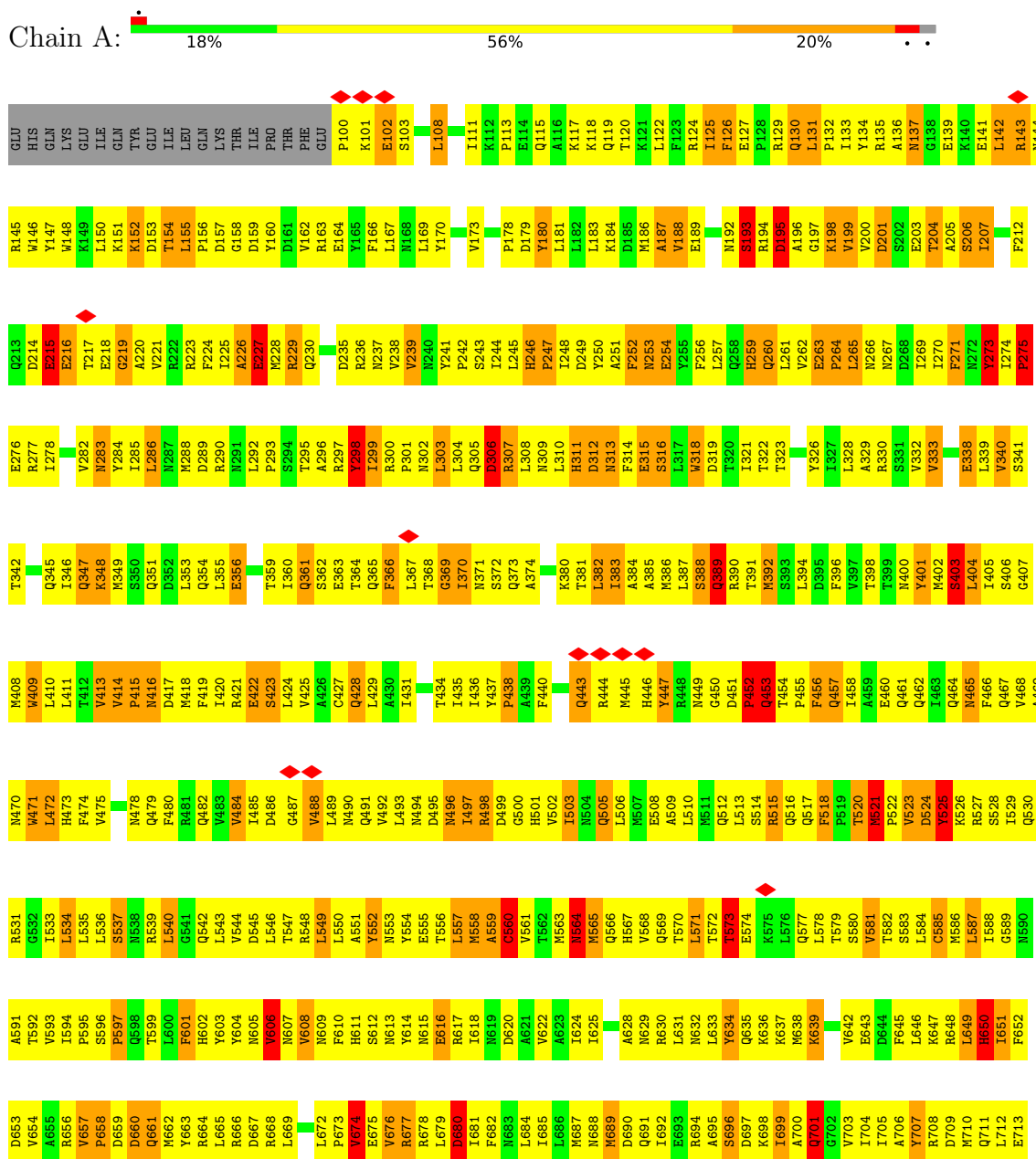
- Molecule 3 is ZINC ION (three-letter code: ZN) (formula: Zn).

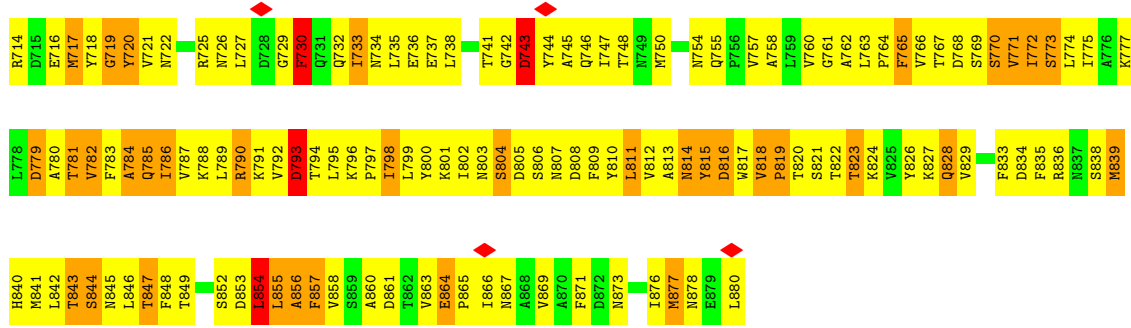
Mol	Chain	Residues	Atoms		AltConf
3	C	1	Total 1	Zn 1	0
3	G	1	Total 1	Zn 1	0
3	J	1	Total 1	Zn 1	0
3	N	1	Total 1	Zn 1	0
3	O	1	Total 1	Zn 1	0

### 3 Residue-property plots

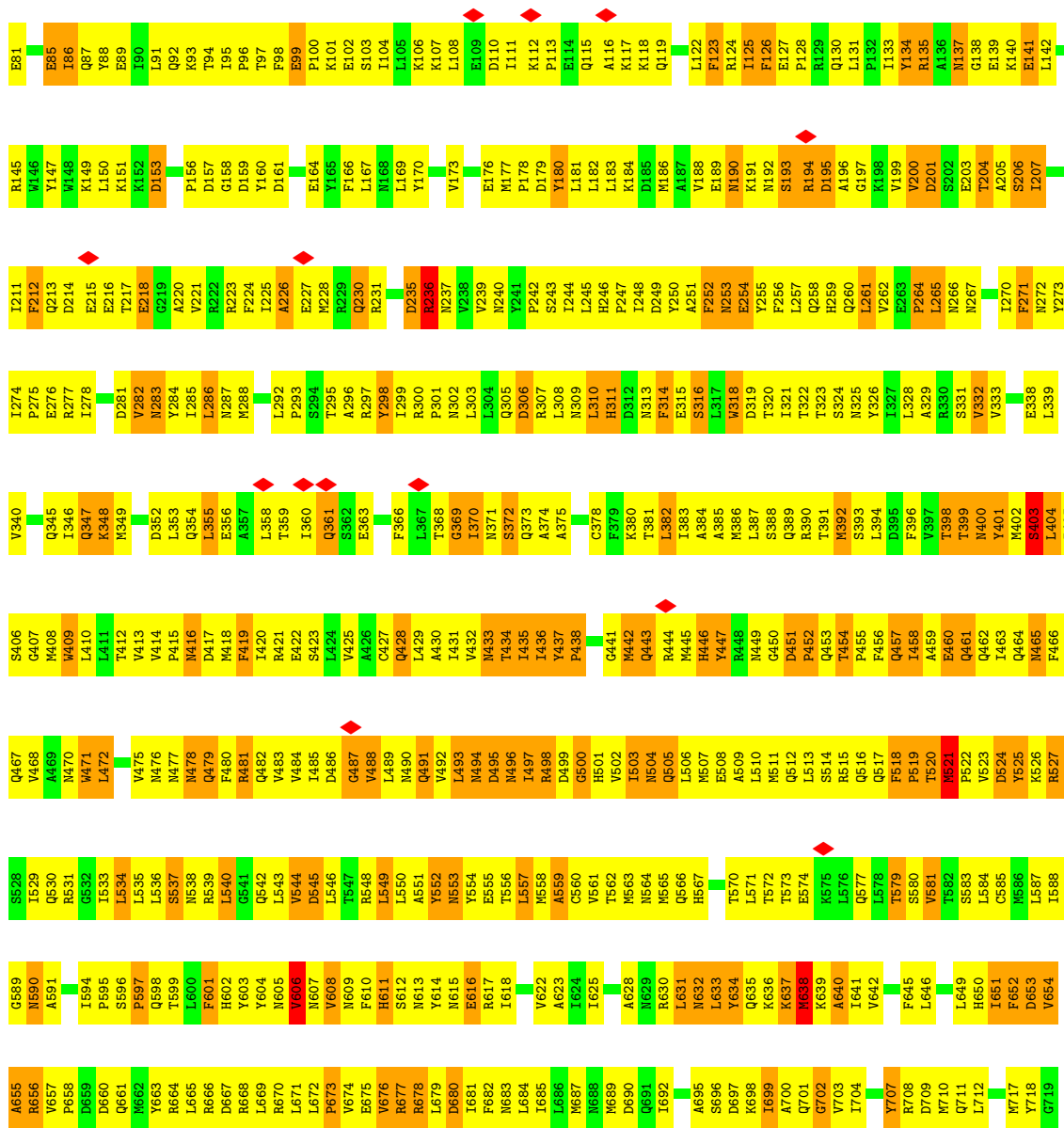
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

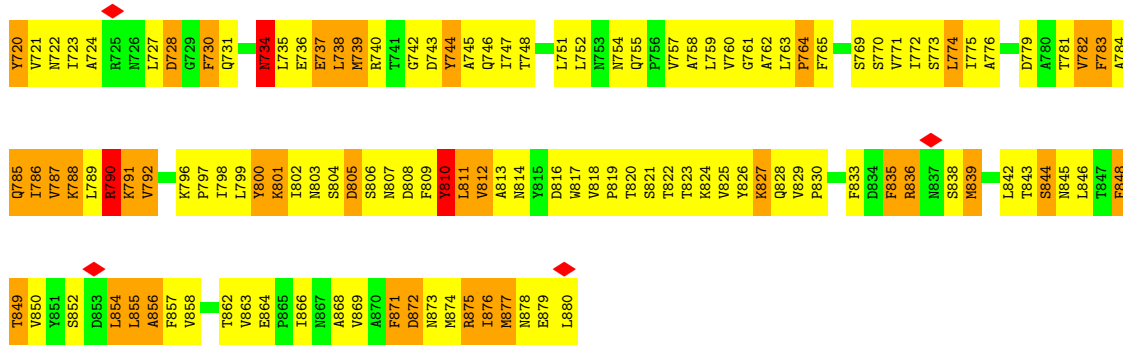
#### • Molecule 1: Inner capsid protein VP2



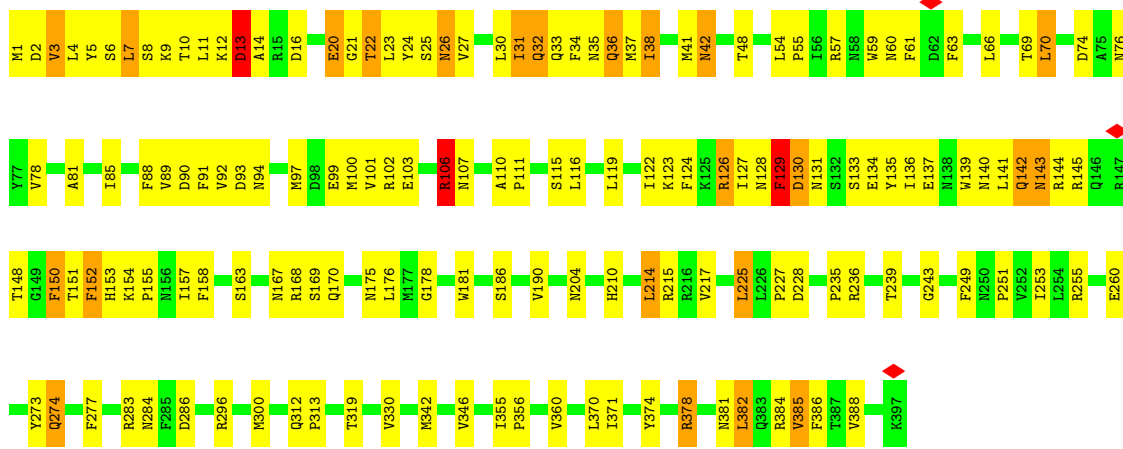


● Molecule 1: Inner capsid protein VP2

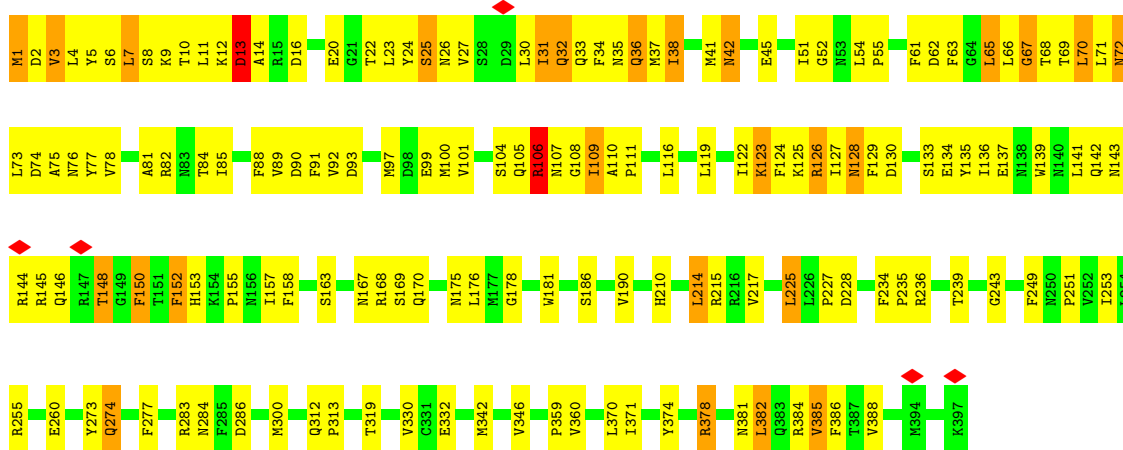




• Molecule 2: Intermediate capsid protein VP6



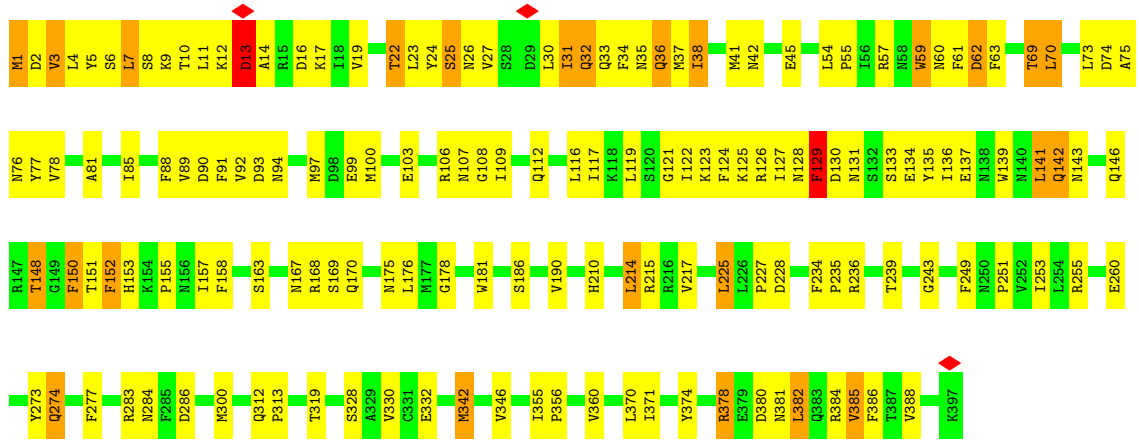
• Molecule 2: Intermediate capsid protein VP6



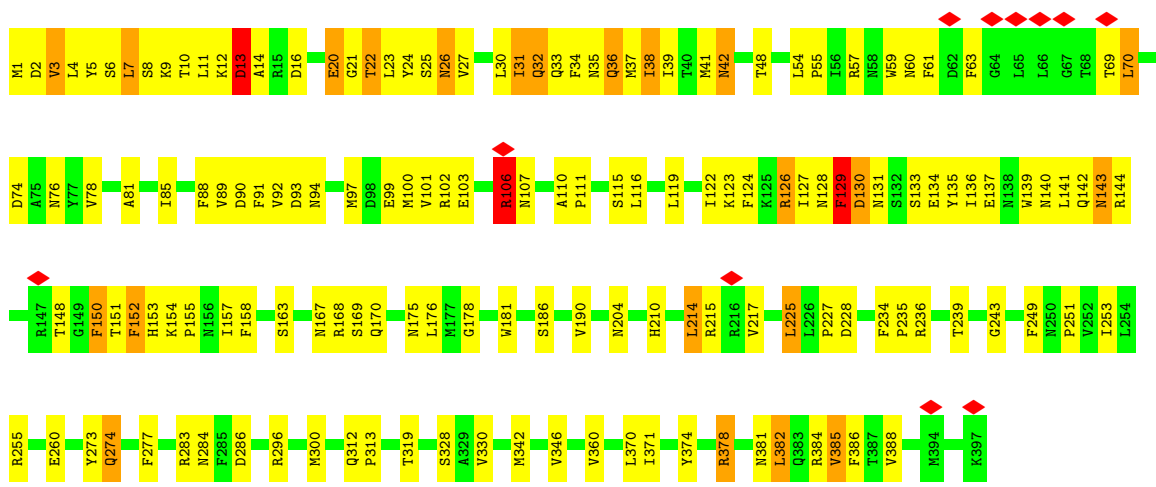
• Molecule 2: Intermediate capsid protein VP6



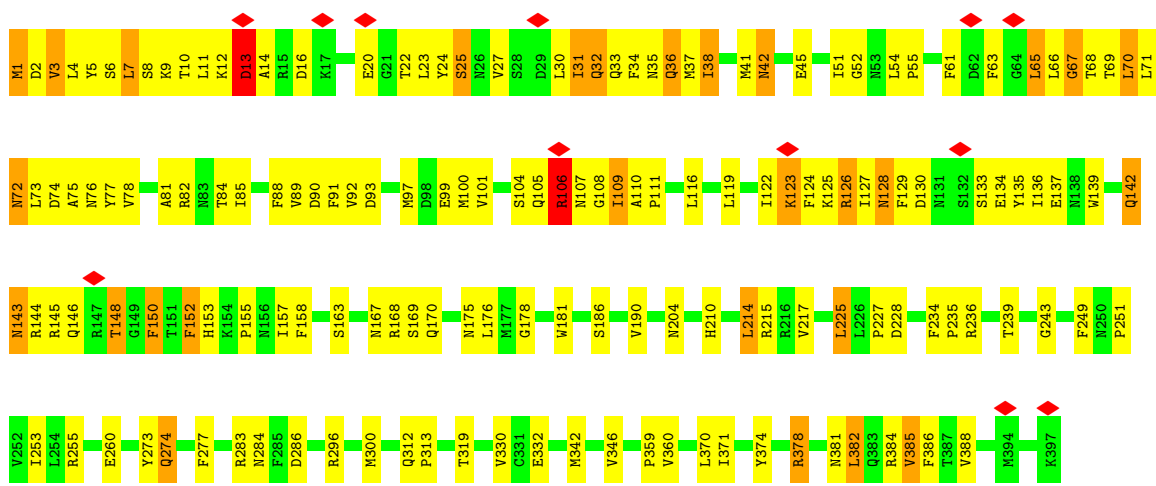




• Molecule 2: Intermediate capsid protein VP6

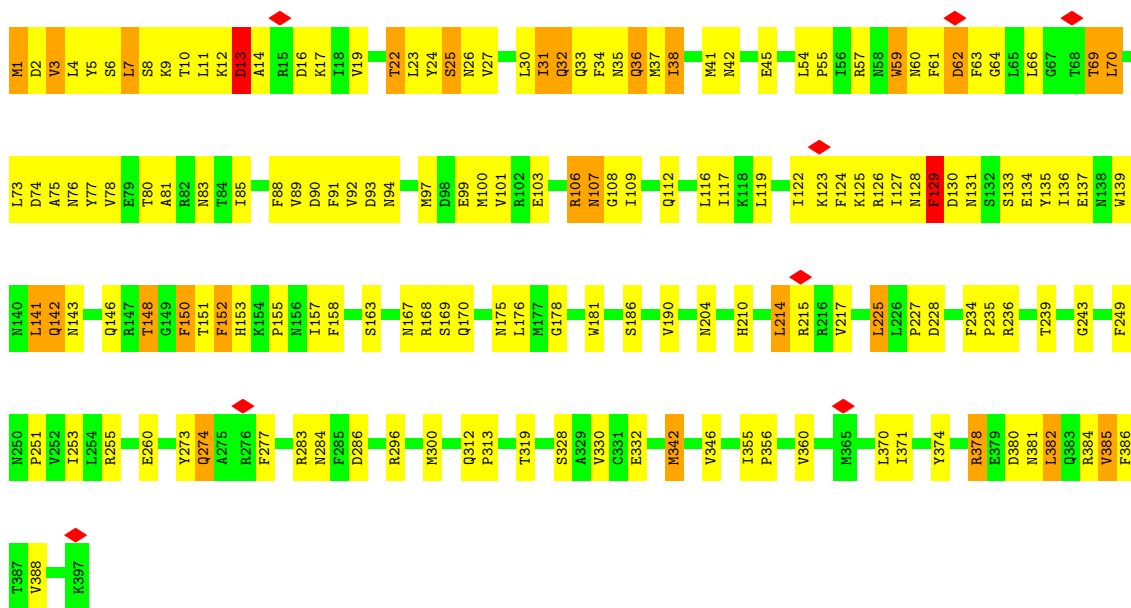


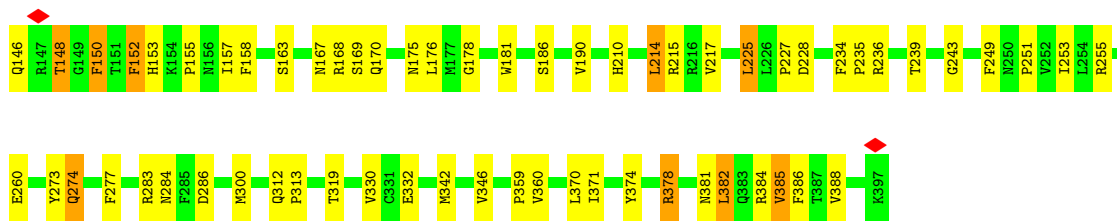
• Molecule 2: Intermediate capsid protein VP6



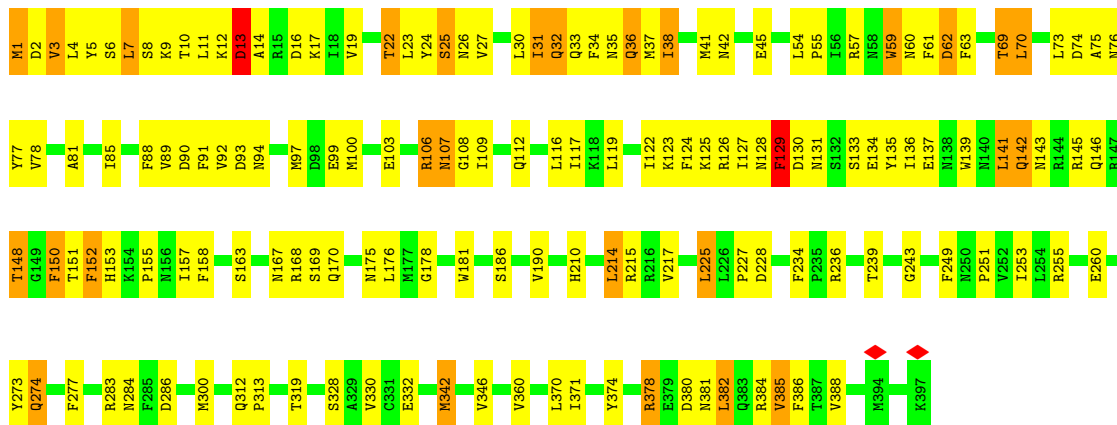
• Molecule 2: Intermediate capsid protein VP6

Chain H: 

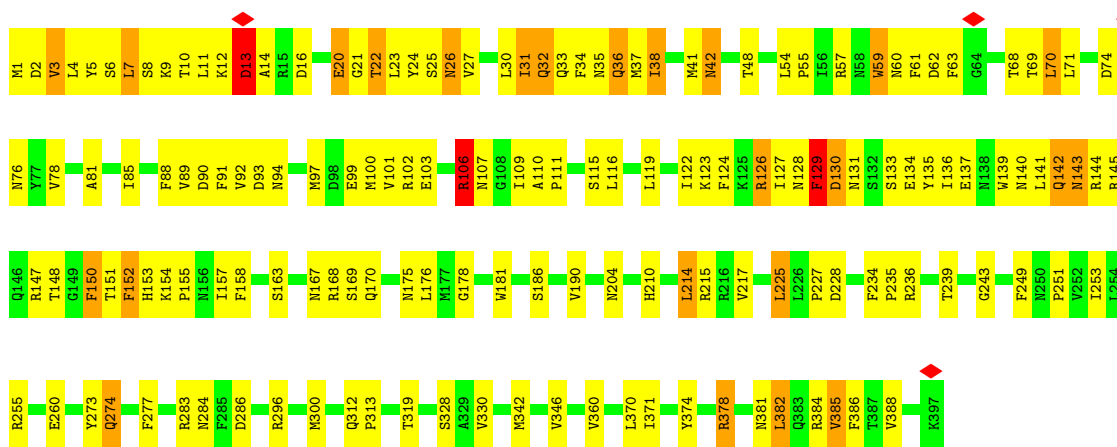




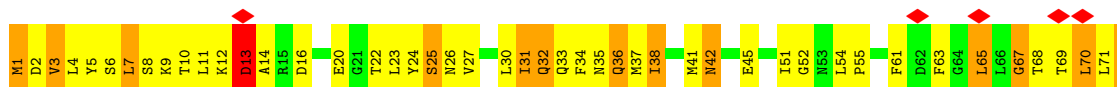
• Molecule 2: Intermediate capsid protein VP6

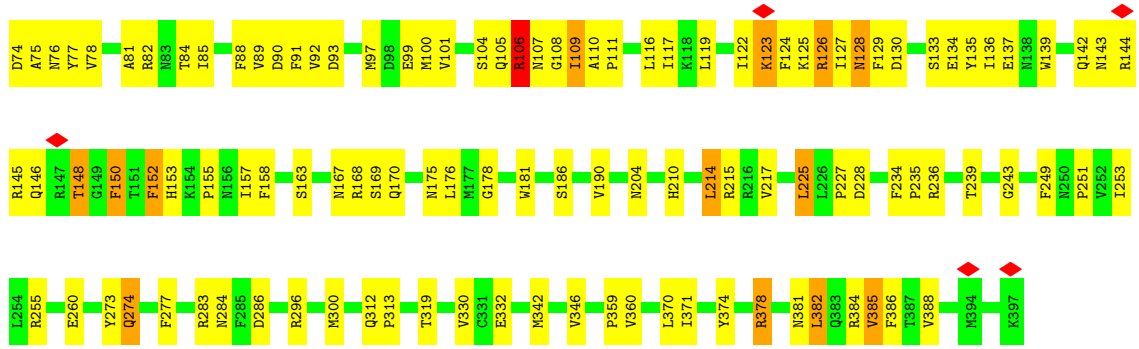


• Molecule 2: Intermediate capsid protein VP6

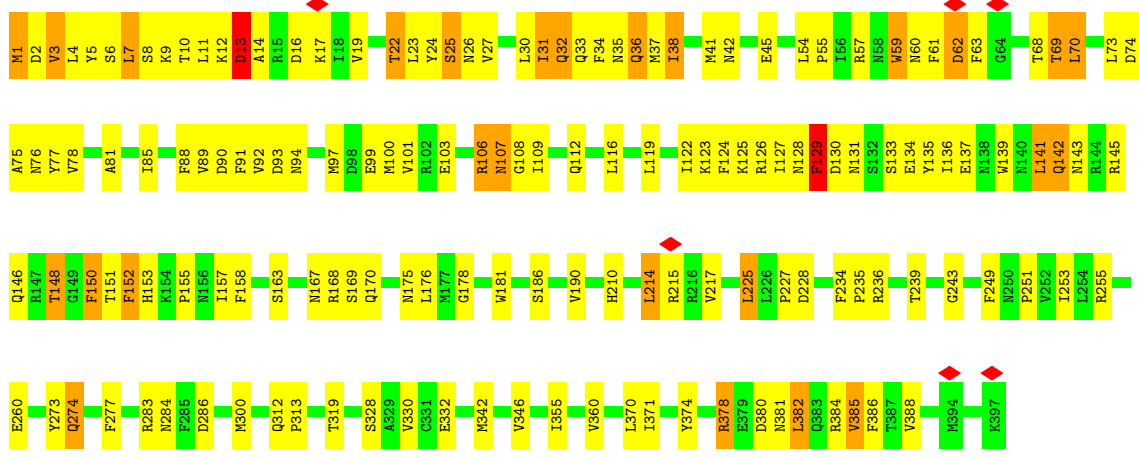


• Molecule 2: Intermediate capsid protein VP6

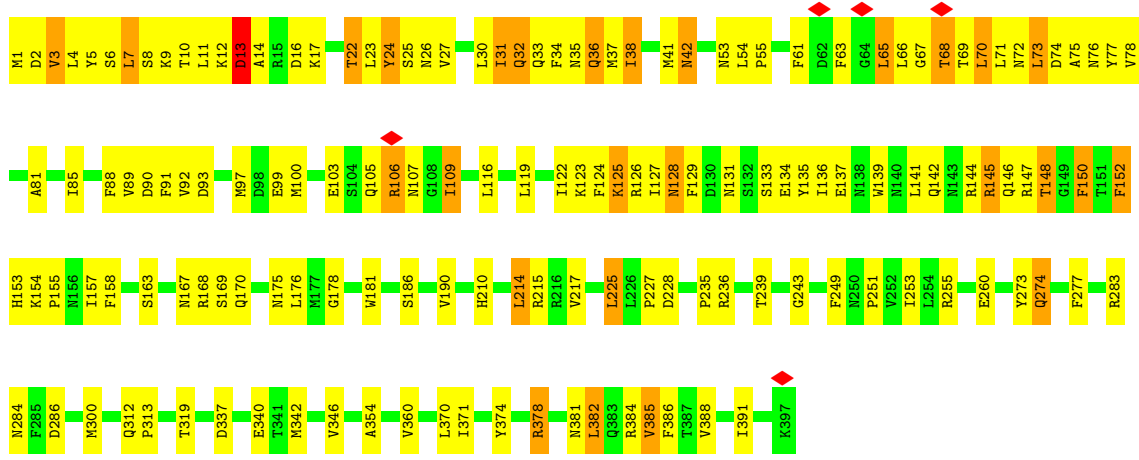




• Molecule 2: Intermediate capsid protein VP6



• Molecule 2: Intermediate capsid protein VP6



## 4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, I	Depositor
Number of particles used	3780	Depositor
Resolution determination method	Not provided	
CTF correction method	individual particle CTF	Depositor
Microscope	FEI TECNAI F30	Depositor
Voltage (kV)	300	Depositor
Electron dose ( $e^-/\text{\AA}^2$ )	25	Depositor
Minimum defocus (nm)	1200	Depositor
Maximum defocus (nm)	3500	Depositor
Magnification	58168	Depositor
Image detector	GENERIC FILM	Depositor
Maximum map value	7.179	Depositor
Minimum map value	-3.263	Depositor
Average map value	0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2.0	Depositor
Map size ( $\text{\AA}$ )	986.4, 986.4, 986.4	wwPDB
Map dimensions	800, 800, 800	wwPDB
Map angles ( $^\circ$ )	90.0, 90.0, 90.0	wwPDB
Pixel spacing ( $\text{\AA}$ )	1.233, 1.233, 1.233	Depositor

## 5 Model quality i

### 5.1 Standard geometry i

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  >5	RMSZ	# Z  >5
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 [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	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
1:A:473:HIS:N	2:G:70:LEU:HD22	1.57	1.18
2:K:145:ARG:HD2	2:L:142:GLN:O	1.43	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:461:GLN:CB	2:F:32:GLN:HE22	1.51	1.11
1:A:470:ASN:O	2:G:70:LEU:HD23	1.48	1.11
1:B:470:ASN:CB	2:J:71:LEU:HD23	1.80	1.10
1:B:498:ARG:HB3	1:B:505:GLN:NE2	1.66	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:484:VAL:CG2	2:I:69:THR:HG21	1.80	1.09
1:B:498:ARG:NH2	2:J:25:SER:OG	1.84	1.09
1:A:721:VAL:HG12	1:A:722:ASN:H	1.07	1.09
1:B:461:GLN:OE1	2:H:62:ASP:OD2	1.69	1.08
1:B:494:ASN:OD1	2:I:69:THR:HG22	1.51	1.08
1:A:469:ALA:C	2:G:70:LEU:HD21	1.72	1.08
1:A:506:LEU:HD23	1:A:544:VAL:HA	1.31	1.08
1:A:513:LEU:HA	1:A:516:GLN:HE22	1.05	1.08
1:A:705:ILE:HA	1:A:823:THR:HG22	1.35	1.08
2:K:145:ARG:HG3	2:L:143:ASN:O	1.53	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:A:521:MET:HB3	1:A:522:PRO:HD3	1.39	1.04
1:B:630:ARG:CD	2:L:71:LEU:HB2	1.59	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:464:GLN:HB2	2:H:66:LEU:HA	1.35	1.03
1:B:498:ARG:NH1	2:J:25:SER:OG	1.87	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:A:339:LEU:HD22	1:A:588:ILE:HA	1.40	1.02
1:B:435:ILE:HG22	1:B:436:ILE:H	1.24	1.02
1:B:462:GLN:C	2:H:64:GLY:CA	2.28	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:745:ALA:HB1	1:B:748:THR:HB	1.41	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: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
1:B:462:GLN:C	2:H:64:GLY:HA2	1.82	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
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
2:I:38:ILE:HG22	2:I:42:ASN:HD21	1.25	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:466:PHE:CD1	2:H:80:THR:HG21	1.99	0.98
1:B:498:ARG:NE	2:J:23:LEU:HD11	1.79	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:255:TYR:CA	2:N:69:THR:HG23	1.94	0.97
1:B:464:GLN:HB3	2:H:66:LEU:HD23	1.43	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:305:GLN:HB2	2:M:70:LEU:HD23	1.47	0.96
1:B:503:ILE:HG21	1:B:544:VAL:HG13	1.42	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:A:452:PRO:HG2	1:B:521:MET:O	1.67	0.94
1:B:498:ARG:CG	2:I:32:GLN:NE2	2.29	0.94
2:C:106:ARG:H	2:C:106:ARG:HD3	1.32	0.94
2:I:106:ARG:H	2:I:106:ARG:HD3	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:H	2:F:106:ARG:HD3	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:A:864:GLU:OE1	1:A:865:PRO:HD2	1.67	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:498:ARG:HB3	1:B:505:GLN:HE22	1.28	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:N	1:B:744:TYR:CD2	2.31	0.92
1:B:848:PHE:O	1:B:849:THR:OG1	1.88	0.92
1:A:270:ILE:HD11	1:A:292:LEU:HD11	1.51	0.92
1:A:371:ASN:HA	1:A:374:ALA:HB3	1.52	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:428:GLN:HB2	1:A:456:PHE:CD1	2.05	0.92
2:K:145:ARG:HD2	2:L:143:ASN:CA	2.00	0.92
1:B:200:VAL:CG2	1:B:243:SER:HB3	2.00	0.92
1:A:470:ASN:HA	2:G:70:LEU:CD2	2.01	0.91
1:A:571:LEU:HD23	1:B:531:ARG:NH2	1.85	0.91
2:I:75:ALA:HB3	2:M:76:ASN:HA	1.50	0.91
1:A:470:ASN:CA	2:G:70:LEU:CD2	2.48	0.91
1:B:428:GLN:HB2	1:B:456:PHE:HD1	1.36	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:A:187:ALA:O	1:A:188:VAL:HG23	1.70	0.90
1:B:471:TRP:HB2	1:B:512:GLN:OE1	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: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
1:B:432:VAL:HA	1:B:436:ILE:CD1	2.00	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
2:K:145:ARG:HD2	2:L:143:ASN:HA	1.52	0.90
1:B:462:GLN:C	2:H:64:GLY:HA3	1.93	0.89
1:A:660:ASP:CB	1:B:539:ARG:HD2	2.01	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: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:A:126:PHE:N	1:A:126:PHE:HD2	1.69	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:B:470:ASN:CG	2:I:126:ARG:HH22	1.74	0.89
1:B:446:HIS:O	1:B:447:TYR:HB2	1.72	0.89
1:A:361:GLN:HG3	1:A:362:SER:H	1.37	0.89
2:C:142:GLN:CD	2:N:145:ARG:NH1	2.08	0.89
1:B:790:ARG:HA	1:B:790:ARG:NE	1.88	0.88
1:A:416:ASN:HB3	1:A:424:LEU:HD22	1.54	0.88
1:B:217:THR:HG22	1:B:221:VAL:HG21	1.54	0.88
1:B:467:GLN:HE22	2:J:69:THR:HG21	1.37	0.88
1:B:513:LEU:HA	1:B:516:GLN:NE2	1.88	0.88
1:A:546:LEU:HD21	1:A:588:ILE:CD1	2.03	0.88
1:B:868:ALA:HB3	1:B:876:ILE:HG12	1.51	0.88
1:B:119:GLN:HG2	1:B:181:LEU:HD21	1.52	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: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: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
1:A:678:ARG:O	1:A:681:ILE:HG22	1.73	0.88
2:H:76:ASN:HA	2:J:75:ALA:HB3	1.53	0.88
2:H:76:ASN:CB	2:J:76:ASN:HB2	2.03	0.88
1:B:413:VAL:HG12	1:B:414:VAL:N	1.88	0.87
2:H:76:ASN:HB2	2:J:76:ASN:N	1.88	0.87
1:A:469:ALA:CB	2:G:71:LEU:CD2	2.50	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:B:678:ARG:O	1:B:681:ILE:HG22	1.73	0.87
1:A:587:LEU:HD13	1:A:587:LEU:O	1.75	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:509:ALA:O	1:A:513:LEU:HG	1.74	0.87
1:B:454:THR:HG21	1:B:476:ASN:HD21	1.40	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:HD22	1:B:590:ASN:H	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:C	1:B:594:ILE:HD12	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
1:B:406:SER:O	1:B:409:TRP:HB3	1.77	0.84
2:H:76:ASN:CB	2:J:76:ASN:H	1.90	0.84
1:A:406:SER:O	1:A:409:TRP:HB3	1.77	0.84
2:C:150:PHE:HB2	2:C:152:PHE:CE1	2.12	0.84
1:A:658:PRO:HG2	1:B:348:LYS:HG2	1.59	0.84
1:A:118:LYS:HG2	1:A:119:GLN:H	1.37	0.84
1:A:779:ASP:HA	1:A:798:ILE:HD11	1.58	0.84
1:B:204:THR:HG22	1:B:244:ILE:HG22	1.59	0.84
1:A:136:ALA:O	1:A:137:ASN:HB3	1.76	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: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:160:TYR:OH	1:B:635:GLN:HG3	1.76	0.84
1:B:684:LEU:HD13	2:N:68:THR:HG21	1.60	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:A:689:MET:HA	1:A:692:ILE:HD12	1.60	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:712:LEU:HG	1:A:819:PRO:HB2	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: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:N	1:A:125:ILE:HD12	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:A:508:GLU:C	1:A:512:GLN:HE21	1.82	0.82
1:B:510:LEU:HD12	1:B:513:LEU:HD12	1.62	0.82
1:B:775:ILE:H	1:B:775:ILE:HD12	1.44	0.82
1:A:548:ARG:HH12	1:A:878:ASN:H	1.26	0.81
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:B:590:ASN:HD22	1:B:590:ASN:N	1.78	0.81
1:A:126:PHE:N	1:A:126:PHE:CD2	2.41	0.81
1:B:489:LEU:HG	2:M:69:THR:HG23	1.63	0.81
2:K:145:ARG:HD3	2:L:143:ASN:HA	0.81	0.81
2:O:106:ARG:H	2:O:106:ARG:HD3	1.45	0.81
2:K:69:THR:O	2:K:70:LEU:HB2	1.79	0.81
1:A:192:ASN:O	1:A:193:SER:HB3	1.77	0.81
1:B:368:THR:HA	1:B:579:THR:HG23	1.61	0.81
1:B:724:ALA:HB2	1:B:824:LYS:HE3	1.61	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
1:B:811:LEU:N	1:B:811:LEU:HD23	1.94	0.81
2:L:57:ARG:NH1	2:L:94:ASN:HD21	1.79	0.81
1:B:435:ILE:O	1:B:438:PRO:HD2	1.80	0.81
1:A:790:ARG:CZ	1:B:287:ASN:OD1	2.28	0.80
1:B:508:GLU:O	1:B:512:GLN:HG3	1.81	0.80
1:A:216:GLU:H	1:A:216:GLU:CD	1.84	0.80
1:B:180:TYR:HE2	1:B:850:VAL:HG21	1.47	0.80
1:A:437:TYR:N	1:A:438:PRO:HD2	1.96	0.80
1:A:762:ALA:O	1:A:763:LEU:HG	1.80	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

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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:270:ILE:HG23	1:A:854:LEU:HD22	1.64	0.80
1:A:721:VAL:CG1	1:A:722:ASN:H	1.88	0.80
1:B:156:PRO:HB2	1:B:161:ASP:HB3	1.63	0.80
1:B:166:PHE:HE2	1:B:689:MET:HA	1.47	0.80
1:B:422:GLU:HA	1:B:425:VAL:CG2	2.12	0.80
1:A:169:LEU:O	1:A:173:VAL:HG23	1.82	0.80
1:B:193:SER:HB2	1:B:226:ALA:HA	1.64	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:150:LEU:HD12	1:A:696:SER:HB2	1.64	0.79
1:A:452:PRO:HG2	1:B:521:MET:C	2.02	0.79
1:B:224:PHE:O	1:B:228:MET:HG2	1.81	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:366:PHE:C	1:B:368:THR:H	1.84	0.79
1:A:126:PHE:HD2	1:A:126:PHE:H	1.26	0.79
1:B:306:ASP:C	1:B:308:LEU:H	1.86	0.79
1:B:470:ASN:CA	2:I:126:ARG:HH22	1.94	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:K:142:GLN:OE1	2:L:145:ARG:CZ	2.30	0.79
2:M:23:LEU:HD23	2:M:24:TYR:N	1.98	0.79
1:A:199:VAL:HG12	1:A:200:VAL:N	1.95	0.79
1:B:466:PHE:HE1	2:H:80:THR:HG22	1.45	0.79
2:H:76:ASN:HB2	2:J:76:ASN:HB2	1.62	0.79
1:A:521:MET:HE2	1:A:521:MET:HA	1.65	0.79
1:A:659:ASP:O	1:A:662:MET:HB2	1.83	0.79
2:O:27:VAL:O	2:O:31:ILE:HG12	1.82	0.79
1:A:726:ASN:O	1:A:727:LEU:HG	1.82	0.78
1:B:265:LEU:HB3	1:B:296:ALA:HB1	1.65	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
2:G:23:LEU:HD23	2:G:24:TYR:N	1.98	0.78
2:J:23:LEU:HD23	2:J:24:TYR:N	1.98	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:A:118:LYS:HG2	1:A:119:GLN:N	1.99	0.78
1:A:131:LEU:HD12	1:A:132:PRO:HD2	1.66	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:A:755:GLN:O	1:A:757:VAL:HG23	1.83	0.78
1:B:428:GLN:HG2	1:B:429:LEU:N	1.98	0.78
1:B:689:MET:HA	1:B:692:ILE:HD12	1.65	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:A:371:ASN:HB3	1:A:583:SER:HB2	1.66	0.78
1:B:282:VAL:HG13	1:B:283:ASN:H	1.48	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:A:771:VAL:HG13	1:A:772:ILE:H	1.47	0.77
1:B:513:LEU:HA	1:B:516:GLN:OE1	1.84	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:445:MET:O	1:A:447:TYR:N	2.16	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:B:204:THR:CG2	1:B:244:ILE:HG22	2.15	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:A:461:GLN:CA	2:F:32:GLN:HE22	1.98	0.77
1:B:498:ARG:HH11	2:J:25:SER:HB3	1.47	0.77
1:A:639:LYS:O	1:A:643:GLU:HG3	1.84	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
2:K:145:ARG:HD2	2:L:142:GLN:C	2.05	0.77
1:A:473:HIS:CG	2:G:70:LEU:HD13	2.09	0.77
1:B:540:LEU:O	1:B:544:VAL:HG23	1.85	0.77
1:B:658:PRO:HB2	1:B:661:GLN:HG2	1.67	0.77
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:B:467:GLN:HE22	2:J:69:THR:CG2	1.97	0.76
1:A:428:GLN:NE2	1:A:455:PRO:HB2	2.00	0.76
1:A:498:ARG:HB3	1:A:505:GLN:HE22	1.48	0.76
1:A:501:HIS:O	1:A:503:ILE:HG13	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:457:GLN:HB2	1:B:476:ASN:ND2	2.00	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:218:GLU:HG3	1:B:221:VAL:HG23	1.66	0.76
1:B:498:ARG:HE	2:J:23:LEU:CD1	1.96	0.76
2:C:38:ILE:HG22	2:C:42:ASN:ND2	1.99	0.76
2:F:38:ILE:HG22	2:F:42:ASN:ND2	1.99	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
1:B:371:ASN:HD22	1:B:583:SER:HB3	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
2:I:150:PHE:HB2	2:I:152:PHE:HE1	1.50	0.76
1:A:510:LEU:HD12	1:A:513:LEU:HD12	1.67	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
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
1:A:396:PHE:HB3	1:A:578:LEU:HD12	1.66	0.75
2:I:76:ASN:CB	2:M:76:ASN:HB2	2.17	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
1:B:133:ILE:HD12	1:B:145:ARG:HB2	1.69	0.75
2:L:38:ILE:HG22	2:L:42:ASN:ND2	1.99	0.75
1:A:275:PRO:HB2	1:A:278:ILE:CD1	2.17	0.75
1:A:508:GLU:O	1:A:512:GLN:HG3	1.86	0.75
1:B:275:PRO:HB2	1:B:278:ILE:HG13	1.67	0.75
2:D:38:ILE:HG22	2:D:42:ASN:HD21	1.52	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:K:57:ARG:HH11	2:K:94:ASN:HD21	1.31	0.74
2:M:150:PHE:HB2	2:M:152:PHE:CE1	2.22	0.74
1:A:503:ILE:C	1:A:505:GLN:H	1.87	0.74
1:A:603:TYR:O	1:A:606:VAL:HG23	1.87	0.74
2:K:142:GLN:OE1	2:L:145:ARG:NH1	2.20	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:113:PRO:HG2	1:B:609:ASN:HB3	1.69	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:A:246:HIS:HD2	1:A:248:ILE:HB	1.53	0.74
1:A:400:ASN:OD1	1:A:403:SER:HB2	1.87	0.74
1:B:360:ILE:O	1:B:361:GLN:HB2	1.86	0.74
1:B:783:PHE:HD1	1:B:783:PHE:H	1.36	0.74
2:J:150:PHE:HB2	2:J:152:PHE:CE1	2.22	0.74
2:N:38:ILE:HG22	2:N:42:ASN:HD21	1.52	0.74
2:E:38:ILE:HG22	2:E:42:ASN:HD21	1.52	0.74
1:A:160:TYR:HE1	1:A:633:LEU:HA	1.53	0.74
1:B:490:ASN:O	1:B:492:VAL:HG23	1.88	0.74
1:B:855:LEU:O	1:B:858:VAL:HG23	1.87	0.74
2:E:150:PHE:HB2	2:E:152:PHE:CE1	2.23	0.74
2:G:150:PHE:HB2	2:G:152:PHE:CE1	2.22	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:A:803:ASN:ND2	1:A:806:SER:HB2	2.02	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:445:MET:C	1:A:447:TYR:H	1.91	0.73
1:A:473:HIS:CE1	2:G:24:TYR:CD2	2.75	0.73
1:B:482:GLN:HB2	1:B:493:LEU:HD22	1.68	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:N:150:PHE:HB2	2:N:152:PHE:CE1	2.23	0.73
2:O:88:PHE:O	2:O:92:VAL:HG23	1.88	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:A:313:ASN:CG	1:B:534:LEU:HD23	2.08	0.73
1:B:401:TYR:O	1:B:404:LEU:HB2	1.88	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:170:TYR:CE1	1:B:681:ILE:HG23	2.23	0.73
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:A:817:TRP:CH2	1:A:819:PRO:HA	2.23	0.73
1:B:393:SER:HB3	1:B:573:THR:HG21	1.70	0.73
1:A:188:VAL:HG12	1:A:189:GLU:N	2.04	0.73
1:A:588:ILE:HG22	1:A:589:GLY:N	2.02	0.73
1:B:494:ASN:OD1	2:I:69:THR:HA	1.88	0.73
1:B:722:ASN:O	1:B:824:LYS:HB2	1.88	0.73
2:G:70:LEU:HD12	2:G:71:LEU:N	2.02	0.73
1:A:769:SER:HB3	1:A:807:ASN:OD1	1.89	0.73
1:B:194:ARG:O	1:B:195:ASP:O	2.06	0.73
1:A:717:MET:SD	1:A:829:VAL:HG13	2.29	0.72
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:195:ASP:CG	1:A:196:ALA:N	2.43	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:473:HIS:CE1	2:G:24:TYR:HD2	2.06	0.72
1:A:548:ARG:NH1	1:A:878:ASN:H	1.87	0.72
1:A:711:GLN:C	1:A:712:LEU:HD23	2.10	0.72
1:B:246:HIS:CD2	1:B:248:ILE:H	2.08	0.72
1:B:481:ARG:HG2	2:I:65:LEU:HD13	0.76	0.72
1:B:615:ASN:O	1:B:618:ILE:HB	1.89	0.72
2:M:38:ILE:HD12	2:M:65:LEU:HD23	1.70	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
1:B:449:ASN:ND2	1:B:455:PRO:HG3	2.03	0.72
2:C:88:PHE:O	2:C:92:VAL:HG23	1.89	0.72
2:K:145:ARG:CG	2:L:143:ASN:O	2.36	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: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:629:ASN:O	1:A:631:LEU:N	2.20	0.72
1:B:540:LEU:O	1:B:540:LEU:HG	1.89	0.72
1:A:428:GLN:CB	1:A:456:PHE:CE1	2.72	0.72
1:B:126:PHE:N	1:B:126:PHE:HD2	1.88	0.72
1:A:855:LEU:O	1:A:857:PHE:N	2.22	0.72
1:A:428:GLN:CD	1:A:455:PRO:HB2	2.09	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:428:GLN:HG2	1:A:429:LEU:H	1.54	0.72
1:B:464:GLN:HB2	2:H:66:LEU:CA	2.13	0.72
1:B:717:MET:HE3	1:B:718:TYR:HE1	1.53	0.72
2:D:88:PHE:O	2:D:92:VAL:HG23	1.89	0.72
2:F:88:PHE:O	2:F:92:VAL:HG23	1.89	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
2:M:88:PHE:O	2:M:92:VAL:HG23	1.90	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
1:B:731:GLN:HG2	2:D:62:ASP:HB2	1.70	0.71
2:D:38:ILE:HD12	2:D:65:LEU:HD23	1.70	0.71
1:A:568:VAL:HG12	1:A:569:GLN:N	2.01	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:B:255:TYR:H	2:N:69:THR:CG2	1.93	0.71
1:B:548:ARG:NH1	1:B:878:ASN:N	2.38	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:449:ASN:ND2	1:A:455:PRO:HG3	2.05	0.71
1:A:451:ASP:CB	1:A:452:PRO:HD2	2.07	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: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:A:473:HIS:HE1	2:G:24:TYR:HD2	1.36	0.71
1:B:526:LYS:O	1:B:530:GLN:HG2	1.91	0.71
1:A:551:ALA:O	1:A:555:GLU:HB2	1.90	0.70
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
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:521:MET:HB3	1:A:522:PRO:CD	2.20	0.70
1:A:647:LYS:CG	1:A:654:VAL:HG21	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:C:142:GLN:HE22	2:N:145:ARG:NH1	1.89	0.70
2:H:88:PHE:O	2:H:92:VAL:HG23	1.91	0.70
1:A:283:ASN:O	1:A:863:VAL:HG23	1.92	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: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:A:506:LEU:HD23	1:A:544:VAL:CA	2.16	0.70
1:A:634:TYR:HB2	1:B:875:ARG:HH22	1.56	0.70
1:B:494:ASN:ND2	1:B:495:ASP:N	2.39	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: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
1:B:491:GLN:NE2	1:B:564:ASN:HB3	2.06	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:136:ALA:O	1:A:137:ASN:CB	2.40	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
2:E:88:PHE:O	2:E:92:VAL:HG23	1.91	0.70
1:B:166:PHE:CE2	1:B:689:MET:HG3	2.27	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
2:E:167:ASN:HD22	2:E:178:GLY:HA2	1.57	0.70
1:A:298:TYR:CD1	1:A:299:ILE:O	2.45	0.69
1:A:492:VAL:HG13	1:A:558:MET:SD	2.32	0.69
1:B:349:MET:HG3	1:B:353:LEU:HD12	1.73	0.69
2:G:167:ASN:HD22	2:G:178:GLY:HA2	1.57	0.69
1:B:721:VAL:HG12	1:B:722:ASN:N	2.08	0.69
2:D:167:ASN:HD22	2:D:178:GLY:HA2	1.57	0.69
2:K:167:ASN:HD22	2:K:178:GLY:HA2	1.57	0.69
2:L:167:ASN:HD22	2:L:178:GLY:HA2	1.57	0.69
1:B:400:ASN:ND2	1:B:403:SER:HB2	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:743:ASP:CG	1:B:745:ALA:H	1.94	0.69
1:B:770:SER:HB2	1:B:773:SER:OG	1.92	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:A:194:ARG:NH1	1:A:229:ARG:HG2	2.06	0.69
1:A:244:ILE:O	1:A:245:LEU:HD23	1.93	0.69
1:A:757:VAL:HG12	1:A:758:ALA:N	2.07	0.69
1:A:807:ASN:O	1:A:809:PHE:N	2.25	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
2:N:167:ASN:HD22	2:N:178:GLY:HA2	1.57	0.69
1:A:124:ARG:HD2	1:A:203:GLU:OE1	1.92	0.69
1:A:306:ASP:C	1:A:308:LEU:H	1.97	0.69
1:B:499:ASP:O	1:B:500:GLY:C	2.31	0.69
1:B:782:VAL:HG11	1:B:796:LYS:O	1.93	0.69
1:B:783:PHE:N	1:B:783:PHE:CD1	2.60	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:A:781:THR:O	1:A:783:PHE:N	2.26	0.69
1:B:717:MET:HE3	1:B:718:TYR:CE1	2.27	0.69
2:D:54:LEU:HD12	2:D:55:PRO:HD2	1.75	0.69
2:J:54:LEU:HD12	2:J:55:PRO:HD2	1.75	0.69
2:N:88:PHE:O	2:N:92:VAL:HG23	1.91	0.69
1:A:246:HIS:O	1:A:249:ASP:N	2.25	0.68
1:A:486:ASP:HB2	1:A:490:ASN:HD22	1.57	0.68
1:A:631:LEU:O	1:A:633:LEU:HD12	1.93	0.68
2:J:167:ASN:HD22	2:J:178:GLY:HA2	1.57	0.68
1:A:694:ARG:HD2	1:A:828:GLN:HG2	1.75	0.68
2:D:76:ASN:N	2:L:76:ASN:HB2	2.07	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
1:A:458:ILE:O	1:A:462:GLN:HG3	1.93	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:A:783:PHE:HD1	1:A:783:PHE:H	1.40	0.68
1:B:282:VAL:O	1:B:284:TYR:N	2.26	0.68
1:A:452:PRO:CG	1:B:521:MET:O	2.39	0.68
1:B:393:SER:O	1:B:394:LEU:HD23	1.92	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:B:492:VAL:O	1:B:493:LEU:C	2.31	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:D:67:GLY:O	2:D:68:THR:HG23	1.93	0.68
2:J:106:ARG:HD3	2:J:106:ARG:H	1.59	0.68
1:B:368:THR:O	1:B:369:GLY:O	2.12	0.68
1:B:683:ASN:HB3	2:N:32:GLN:NE2	2.09	0.68
2:J:67:GLY:O	2:J:68:THR:HG23	1.93	0.68
2:K:38:ILE:HG22	2:K:42:ASN:ND2	2.09	0.68
2:M:106:ARG:HD3	2:M:106:ARG:H	1.59	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
1:B:869:VAL:HG13	1:B:873:ASN:HA	1.74	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:214:ASP:OD1	1:B:216:GLU:HG2	1.94	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
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:A:436:ILE:HG13	1:A:437:TYR:N	2.08	0.67
1:A:510:LEU:HB2	1:A:540:LEU:HD13	1.76	0.67
1:B:486:ASP:CB	2:I:70:LEU:HD21	2.24	0.67
1:B:510:LEU:HD11	1:B:537:SER:CB	2.24	0.67
1:B:642:VAL:O	1:B:646:LEU:HG	1.94	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
1:A:588:ILE:CG2	1:A:589:GLY:N	2.57	0.67
1:B:230:GLN:HA	1:B:242:PRO:HD3	1.75	0.67
1:B:703:VAL:HG12	1:B:704:ILE:H	1.59	0.67
2:G:24:TYR:O	2:G:27:VAL:HG22	1.94	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:374:ALA:HB1	1:B:580:SER:CA	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:445:MET:O	1:B:447:TYR:N	2.26	0.67
1:B:459:ALA:O	1:B:463:ILE:HG13	1.94	0.67
1:A:282:VAL:O	1:A:284:TYR:N	2.28	0.67
1:A:570:THR:HG22	1:A:571:LEU:N	2.08	0.67
1:B:311:HIS:H	1:B:311:HIS:CD2	2.13	0.67
1:B:666:ARG:CG	1:B:667:ASP:N	2.58	0.67
1:B:743:ASP:HB2	1:B:790:ARG:NH1	2.10	0.67
1:A:246:HIS:HB3	1:A:249:ASP:OD2	1.94	0.67
1:B:518:PHE:CD2	2:H:69:THR:HG23	1.99	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:245:LEU:HB3	1:A:249:ASP:HB2	1.77	0.66
1:A:605:ASN:O	1:A:608:VAL:HB	1.95	0.66
1:B:156:PRO:CB	1:B:161:ASP:HB3	2.26	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
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:A:577:GLN:O	1:A:581:VAL:HG23	1.95	0.66
1:B:486:ASP:CB	2:I:70:LEU:HD23	2.25	0.66
1:B:712:LEU:HD12	1:B:722:ASN:HB3	1.77	0.66
2:G:106:ARG:HD3	2:G:106:ARG:H	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:G:6:SER:OG	2:G:128:ASN:HA	1.96	0.66
2:J:6:SER:OG	2:J:128:ASN:HA	1.96	0.66
1:A:246:HIS:CD2	1:A:248:ILE:HB	2.30	0.66
1:B:869:VAL:N	1:B:876:ILE:HG23	2.09	0.66
1:A:178:PRO:HD2	1:A:256:PHE:CE2	2.30	0.66
1:A:537:SER:O	1:A:540:LEU:HB3	1.96	0.66
1:A:658:PRO:HB2	1:A:660:ASP:OD1	1.96	0.66
1:B:180:TYR:O	1:B:181:LEU:HG	1.95	0.66
1:B:431:ILE:HA	1:B:435:ILE:HD12	1.76	0.66
1:B:755:GLN:O	1:B:757:VAL:HG23	1.95	0.66
1:A:443:GLN:NE2	1:A:521:MET:HB3	2.11	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:474:PHE:O	1:A:478:ASN:HB2	1.96	0.66
1:A:734:ASN:HB3	1:A:737:GLU:HG2	1.77	0.66
1:B:218:GLU:HG3	1:B:221:VAL:CG2	2.25	0.66
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
2:D:106:ARG:H	2:D:106:ARG:HD3	1.59	0.66
2:G:11:LEU:O	2:G:14:ALA:HB3	1.96	0.66
2:G:106:ARG:HG2	2:G:107:ASN:H	1.59	0.66
2:H:93:ASP:O	2:H:97:MET:HG3	1.95	0.66
2:M:6:SER:OG	2:M:128:ASN:HA	1.96	0.66
1:A:416:ASN:HB3	1:A:424:LEU:CD2	2.23	0.66
1:B:192:ASN:O	1:B:193:SER:HB3	1.94	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:319:ASP:OD2	1:B:572:THR:HG23	1.96	0.66
1:B:501:HIS:O	1:B:501:HIS:HD2	1.79	0.66
1:B:630:ARG:HD2	2:L:71:LEU:HB2	1.73	0.66
1:B:672:LEU:HB3	1:B:673:PRO:HD2	1.77	0.66
1:B:764:PRO:O	1:B:765:PHE:HB2	1.95	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:503:ILE:HD13	1:A:547:THR:HB	1.77	0.65
1:A:563:MET:HA	1:A:563:MET:CE	2.18	0.65
2:D:11:LEU:O	2:D:14:ALA:HB3	1.96	0.65
2:I:93:ASP:O	2:I:97:MET:HG3	1.96	0.65
1:A:219:GLY:O	1:A:221:VAL:N	2.29	0.65
1:A:428:GLN:CB	1:A:456:PHE:CD1	2.79	0.65
1:A:646:LEU:O	1:A:649:LEU:HD12	1.96	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
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
2:L:11:LEU:O	2:L:14:ALA:HB3	1.97	0.65
1:A:390:ARG:HD2	1:A:570:THR:HG21	1.78	0.65
1:A:469:ALA:O	2:G:70:LEU:CG	2.44	0.65
1:B:435:ILE:HG22	1:B:436:ILE:N	2.05	0.65
1:B:587:LEU:HG	1:B:587:LEU:O	1.96	0.65
1:B:666:ARG:HG3	1:B:667:ASP:N	2.11	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:605:ASN:O	1:B:608:VAL:HB	1.97	0.65
1:B:869:VAL:HG11	1:B:873:ASN:HA	1.77	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:A:629:ASN:C	1:A:631:LEU:H	2.00	0.65
1:B:501:HIS:O	1:B:501:HIS:CD2	2.49	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:355:LEU:HG	1:B:356:GLU:N	2.11	0.65
1:B:371:ASN:C	1:B:373:GLN:H	1.98	0.65
1:B:498:ARG:HH12	2:J:25:SER:CA	2.07	0.65
1:B:734:ASN:HB3	1:B:737:GLU:HB2	1.76	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
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:M:11:LEU:O	2:M:14:ALA:HB3	1.96	0.65
2:N:54:LEU:HD12	2:N:55:PRO:HD2	1.79	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: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:B:805:ASP:C	1:B:807:ASN:H	1.98	0.65
2:G:4:LEU:HA	2:G:7:LEU:HD12	1.79	0.65
2:J:4:LEU:HA	2:J:7:LEU:HD12	1.79	0.65
2:K:11:LEU:O	2:K:14:ALA:HB3	1.97	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
1:B:712:LEU:CD1	1:B:722:ASN:HB3	2.27	0.65
1:B:787:VAL:O	1:B:788:LYS:C	2.35	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
2:M:93:ASP:O	2:M:97:MET:HG3	1.96	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:A:305:GLN:O	1:A:307:ARG:N	2.29	0.64
1:B:523:VAL:O	1:B:525:TYR:N	2.30	0.64
2:C:4:LEU:HA	2:C:7:LEU:HD12	1.79	0.64
1:B:485:ILE:HD12	2:I:76:ASN:ND2	2.13	0.64
1:B:504:ASN:O	1:B:507:MET:N	2.29	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:A:717:MET:HG3	1:A:718:TYR:HD1	1.61	0.64
1:B:477:ASN:CG	2:I:39:ILE:CG2	2.66	0.64
1:B:486:ASP:O	1:B:488:VAL:N	2.30	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:A:839:MET:HE3	1:A:840:HIS:N	2.13	0.64
1:B:111:ILE:C	1:B:113:PRO:HD3	2.18	0.64
1:B:663:TYR:O	1:B:666:ARG:HG2	1.98	0.64
1:B:745:ALA:O	1:B:746:GLN:C	2.36	0.64
1:B:825:VAL:CG1	1:B:826:TYR:N	2.61	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:A:193:SER:HB2	1:A:226:ALA:O	1.97	0.64
1:B:432:VAL:CA	1:B:436:ILE:HD11	2.05	0.64
1:B:700:ALA:CB	1:B:827:LYS:HB2	2.28	0.64
2:F:11:LEU:O	2:F:14:ALA:HB3	1.97	0.64
2:I:76:ASN:HB2	2:M:74:ASP:OD2	1.97	0.64
1:A:431:ILE:HA	1:A:435:ILE:HD12	1.79	0.64
1:B:510:LEU:CD1	1:B:537:SER:HA	2.28	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:160:TYR:CE1	1:A:633:LEU:HA	2.32	0.64
1:A:286:LEU:N	1:A:286:LEU:HD23	2.12	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
2:F:4:LEU:HA	2:F:7:LEU:HD12	1.79	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: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:660:ASP:O	1:A:662:MET:N	2.30	0.64
1:A:727:LEU:HD12	1:A:727:LEU:O	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:166:PHE:CE2	1:B:689:MET:HA	2.33	0.63
1:B:169:LEU:O	1:B:173:VAL:HG23	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: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
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:B:349:MET:O	1:B:353:LEU:HB2	1.98	0.63
2:E:23:LEU:HD23	2:E:24:TYR:N	2.13	0.63
2:H:116:LEU:HD12	2:H:119:LEU:HB2	1.80	0.63
2:K:4:LEU:HA	2:K:7:LEU:HD12	1.80	0.63
2:L:4:LEU:HA	2:L:7:LEU:HD12	1.79	0.63
2:O:93:ASP:O	2:O:97:MET:HG3	1.98	0.63
1:B:178:PRO:HD2	1:B:256:PHE:CD2	2.33	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:A:133:ILE:O	1:A:134:TYR:HD2	1.82	0.63
1:A:270:ILE:HG23	1:A:854:LEU:CD2	2.28	0.63
1:A:366:PHE:N	1:A:366:PHE:CD1	2.64	0.63
1:A:480:PHE:HD2	1:A:493:LEU:HB3	1.63	0.63
1:B:315:GLU:HB3	1:B:571:LEU:HD11	1.80	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: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:601:PHE:HD1	1:A:601:PHE:H	1.47	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
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
2:K:142:GLN:O	2:L:145:ARG:HD2	1.98	0.63
2:N:23:LEU:HD23	2:N:24:TYR:N	2.13	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:H:54:LEU:HD12	2:H:55:PRO:HD2	1.79	0.63
2:M:346:VAL:HG21	2:M:385:VAL:HG13	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:B:422:GLU:O	1:B:425:VAL:N	2.32	0.63
2:M:116:LEU:HD12	2:M:119:LEU:HB2	1.81	0.63
2:O:346:VAL:HG21	2:O:385:VAL:HG13	1.81	0.63
1:A:117:LYS:O	1:A:179:ASP:HB2	1.98	0.63
1:A:275:PRO:HB2	1:A:278:ILE:HG13	1.81	0.63
1:A:597:PRO:HB3	1:A:860:ALA:HB3	1.80	0.63
1:A:774:LEU:HD11	1:A:820:THR:O	1.99	0.63
1:B:119:GLN:CG	1:B:181:LEU:HD21	2.27	0.63
1:B:239:VAL:HG23	1:B:844:SER:O	1.99	0.63
1:B:260:GLN:O	1:B:262:VAL:HG23	1.99	0.63
1:B:404:LEU:HD21	1:B:430:ALA:CB	2.28	0.63
1:B:408:MET:HB3	1:B:471:TRP:CH2	2.34	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:B:638:MET:HE1	1:B:666:ARG:HH12	1.64	0.63
2:J:116:LEU:HD12	2:J:119:LEU:HB2	1.81	0.63
1:B:763:LEU:O	1:B:764:PRO:O	2.17	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
1:B:548:ARG:HH11	1:B:878:ASN:H	1.46	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:A:506:LEU:HD21	1:A:543:LEU:C	2.20	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: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
1:A:405:ILE:HG21	1:A:536:LEU:HG	1.81	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
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:A:625:ILE:O	1:A:628:ALA:HB3	1.98	0.62
1:B:176:GLU:O	1:B:178:PRO:HD3	2.00	0.62
1:B:309:ASN:HA	1:B:311:HIS:CD2	2.34	0.62
1:B:477:ASN:CG	2:I:39:ILE:HG23	2.19	0.62
2:C:346:VAL:HG21	2:C:385:VAL:HG13	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:346:VAL:HG21	2:D:385:VAL:HG13	1.81	0.62
2:J:38:ILE:HG22	2:J:42:ASN:ND2	2.15	0.62
1:A:314:PHE:O	1:A:316:SER:N	2.32	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
2:G:38:ILE:HD12	2:G:65:LEU:CD2	2.30	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
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
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:257:LEU:HD13	1:A:843:THR:O	2.00	0.62
1:A:405:ILE:CG2	1:A:536:LEU:HG	2.30	0.62
1:A:501:HIS:C	1:A:503:ILE:HG13	2.20	0.62
1:A:660:ASP:O	1:A:661:GLN:C	2.38	0.62
1:A:764:PRO:O	1:A:797:PRO:HD2	2.00	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
2:I:346:VAL:HG21	2:I:385:VAL:HG13	1.81	0.62
2:J:130:ASP:HA	2:K:17:LYS:HG2	1.82	0.62
2:N:5:TYR:CE2	2:N:131:ASN:HA	2.35	0.62
1:A:217:THR:HG22	1:A:217:THR:O	2.00	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:B:378:CYS:HB2	1:B:580:SER:HB2	1.80	0.62
2:D:35:ASN:OD1	2:D:65:LEU:HD22	2.00	0.62
2:F:116:LEU:HD12	2:F:119:LEU:HB2	1.82	0.62
2:G:27:VAL:O	2:G:31:ILE:HG12	1.99	0.62
2:I:116:LEU:HD12	2:I:119:LEU:HB2	1.82	0.62
2:M:27:VAL:O	2:M:31:ILE:HG12	1.99	0.62
1:A:527:ARG:HH11	1:A:527:ARG:HG3	1.64	0.61
1:A:545:ASP:O	1:A:548:ARG:N	2.33	0.61
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:B:654:VAL:O	1:B:656:ARG:N	2.33	0.61
1:B:712:LEU:HB3	1:B:819:PRO:HB2	1.81	0.61
1:B:833:PHE:CZ	1:B:835:PHE:HA	2.35	0.61
2:C:24:TYR:O	2:C:27:VAL:HG22	2.00	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:117:LYS:HB2	1:B:179:ASP:OD2	1.99	0.61
1:B:231:ARG:HB3	1:B:240:ASN:HB2	1.82	0.61
1:B:502:VAL:O	1:B:504:ASN:N	2.28	0.61
1:B:730:PHE:N	1:B:730:PHE:CD1	2.68	0.61
2:F:346:VAL:HG21	2:F:385:VAL:HG13	1.81	0.61
2:K:5:TYR:CE2	2:K:131:ASN:HA	2.35	0.61
2:L:54:LEU:HD12	2:L:55:PRO:HD2	1.81	0.61
1:A:529:ILE:O	1:A:533:ILE:HG13	2.01	0.61
1:B:94:THR:O	1:B:316:SER:HB3	2.01	0.61
1:B:115:GLN:OE1	1:B:117:LYS:HE2	2.00	0.61
1:B:183:LEU:HG	1:B:844:SER:CB	2.30	0.61
1:B:530:GLN:HA	1:B:533:ILE:HD12	1.82	0.61
1:B:735:LEU:HD21	1:B:759:LEU:HB3	1.80	0.61
2:G:346:VAL:HG21	2:G:385:VAL:HG13	1.81	0.61
2:M:35:ASN:OD1	2:M:65:LEU:HD22	2.00	0.61
1:A:570:THR:HG22	1:A:572:THR:H	1.64	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
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
2:F:54:LEU:HD12	2:F:55:PRO:HD2	1.81	0.61
2:K:346:VAL:HG21	2:K:385:VAL:HG13	1.81	0.61
2:M:38:ILE:HD12	2:M:65:LEU:CD2	2.30	0.61
1:A:400:ASN:CG	1:A:403:SER:HB2	2.20	0.61
1:B:491:GLN:CD	1:B:564:ASN:HB3	2.20	0.61
1:B:635:GLN:NE2	1:B:740:ARG:HH22	1.99	0.61
1:B:743:ASP:C	1:B:744:TYR:CD2	2.59	0.61
2:H:346:VAL:HG21	2:H:385:VAL:HG13	1.81	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
2:L:116:LEU:HD12	2:L:119:LEU:HB2	1.82	0.61
2:O:4:LEU:HA	2:O:7:LEU:HD12	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:G:38:ILE:HG22	2:G:42:ASN:ND2	2.15	0.61
2:J:38:ILE:HD12	2:J:65:LEU:CD2	2.30	0.61

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:113:PRO:CG	1:B:609:ASN:HB3	2.30	0.60
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
1:B:771:VAL:HG21	1:B:809:PHE:O	2.01	0.60
2:E:150:PHE:HB2	2:E:152:PHE:HE1	1.66	0.60
2:G:63:PHE:CD2	2:G:84:THR:HG23	2.36	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
2:O:85:ILE:O	2:O:89:VAL:HG23	2.01	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:D:68:THR:O	2:D:69:THR:C	2.40	0.60
2:H:76:ASN:H	2:J:76:ASN:HB2	1.67	0.60
2:H:157:ILE:HG12	2:H:214:LEU:HD13	1.84	0.60
1:A:298:TYR:HD1	1:A:299:ILE:O	1.82	0.60
1:A:701:GLN:HB3	1:A:826:TYR:CD2	2.36	0.60
1:B:374:ALA:O	1:B:580:SER:HB2	2.02	0.60
1:B:393:SER:N	1:B:573:THR:HG23	2.15	0.60
1:B:491:GLN:HG3	1:B:491:GLN:O	2.01	0.60
1:B:630:ARG:HD3	2:L:71:LEU:HB3	0.60	0.60
1:B:789:LEU:O	1:B:790:ARG:O	2.20	0.60
1:B:790:ARG:CA	1:B:790:ARG:NE	2.54	0.60
1:B:863:VAL:HG12	1:B:864:GLU:H	1.66	0.60
2:C:54:LEU:HD12	2:C:55:PRO:HD2	1.81	0.60
2:J:68:THR:O	2:J:69:THR:C	2.40	0.60
2:M:68:THR:O	2:M:69:THR:C	2.40	0.60
1:A:245:LEU:HB3	1:A:249:ASP:CB	2.32	0.60
2:J:63:PHE:CD2	2:J:84:THR:HG23	2.36	0.60
2:N:76:ASN:HA	2:O:75:ALA:HB3	1.83	0.60
2:O:100:MET:HG3	2:O:388:VAL:HG11	1.84	0.60
1:A:273:TYR:O	1:A:273:TYR:CD2	2.54	0.60
1:A:428:GLN:HE22	1:A:455:PRO:HD2	1.66	0.60
1:A:469:ALA:HB1	2:G:71:LEU:HD13	1.84	0.60
1:B:113:PRO:CD	1:B:609:ASN:HB3	2.32	0.60
1:B:415:PRO:CB	1:B:480:PHE:HB2	2.31	0.60
1:B:449:ASN:ND2	1:B:455:PRO:CG	2.65	0.60
1:B:481:ARG:NH2	1:B:496:ASN:HD21	1.99	0.60
1:B:484:VAL:HG22	2:I:69:THR:CG2	2.31	0.60
1:B:549:LEU:HD13	1:B:877:MET:CE	2.31	0.60
1:A:285:ILE:HD11	1:A:861:ASP:CB	2.24	0.60
1:A:457:GLN:O	1:A:460:GLU:HB3	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:244:ILE:HD11	1:B:838:SER:HB3	1.84	0.60
1:B:262:VAL:CG1	1:B:297:ARG:HB3	2.30	0.60
1:B:366:PHE:C	1:B:368:THR:N	2.55	0.60
1:B:545:ASP:HB3	1:B:877:MET:SD	2.41	0.60
1:B:510:LEU:HB2	1:B:540:LEU:HD13	1.82	0.60
2:G:274:GLN:HE21	2:G:274:GLN:N	2.00	0.60
2:N:274:GLN:N	2:N:274:GLN:HE21	2.00	0.60
2:O:116:LEU:HD12	2:O:119:LEU:HB2	1.83	0.60
2:O:157:ILE:HG12	2:O:214:LEU:HD13	1.84	0.60
1:A:146:TRP:O	1:A:833:PHE:HB3	2.02	0.60
1:A:333:VAL:HG11	1:A:380:LYS:CA	2.16	0.60
1:B:314:PHE:N	1:B:314:PHE:CD1	2.69	0.60
1:B:484:VAL:HG22	2:I:69:THR:HG23	1.84	0.60
1:B:562:THR:HB	1:B:611:HIS:CD2	2.37	0.60
2:D:63:PHE:CD2	2:D:84:THR:HG23	2.36	0.60
2:E:274:GLN:N	2:E:274:GLN:HE21	2.00	0.60
2:F:274:GLN:N	2:F:274:GLN:HE21	2.00	0.60
2:K:150:PHE:HB2	2:K:152:PHE:HE1	1.66	0.60
1:A:649:LEU:O	1:A:650:HIS:O	2.19	0.59
1:B:178:PRO:HD2	1:B:256:PHE:CE2	2.36	0.59
1:B:248:ILE:O	1:B:251:ALA:HB3	2.02	0.59
1:B:298:TYR:HD1	1:B:299:ILE:N	1.99	0.59
1:B:392:MET:HB3	1:B:574:GLU:HB2	1.84	0.59
1:B:772:ILE:CG2	1:B:773:SER:N	2.65	0.59
2:C:69:THR:OG1	2:C:70:LEU:N	2.35	0.59
2:H:24:TYR:O	2:H:27:VAL:HG22	2.02	0.59
2:M:144:ARG:O	2:M:145:ARG:HB2	2.01	0.59
2:M:274:GLN:N	2:M:274:GLN:HE21	2.00	0.59
1:A:111:ILE:O	1:A:111:ILE:HG23	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:134:TYR:HB3	1:B:139:GLU:O	2.02	0.59
1:B:246:HIS:CE1	1:B:247:PRO:HD2	2.37	0.59
2:D:157:ILE:HG12	2:D:214:LEU:HD13	1.84	0.59
2:G:157:ILE:HG12	2:G:214:LEU:HD13	1.84	0.59
2:L:274:GLN:HE21	2:L:274:GLN:N	2.00	0.59
2:O:24:TYR:O	2:O:26:ASN:N	2.34	0.59
1:A:178:PRO:HD2	1:A:256:PHE:HE2	1.64	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:143:ASN:HA	2:I:145:ARG:HD3	1.83	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:122:LEU:CD1	1:A:201:ASP:HB2	2.33	0.59
1:A:492:VAL:HG13	1:A:558:MET:HE1	1.83	0.59
1:A:548:ARG:HH12	1:A:878:ASN:N	1.98	0.59
1:B:133:ILE:CD1	1:B:145:ARG:HB2	2.33	0.59
1:B:415:PRO:HB3	1:B:480:PHE:HB2	1.84	0.59
1:B:701:GLN:HB2	1:B:826:TYR:CD2	2.37	0.59
2:I:157:ILE:HG12	2:I:214:LEU:HD13	1.84	0.59
1:A:346:ILE:O	1:A:349:MET:HB3	2.03	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
2:C:274:GLN:N	2:C:274:GLN:HE21	2.00	0.59
2:I:69:THR:OG1	2:I:70:LEU:N	2.35	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:H:274:GLN:N	2:H:274:GLN:HE21	2.00	0.59
2:M:157:ILE:HG12	2:M:214:LEU:HD13	1.84	0.59
2:N:24:TYR:O	2:N:27:VAL:HG22	2.02	0.59
1:A:548:ARG:HB3	1:A:876:ILE:HG23	1.85	0.59
1:A:661:GLN:HE21	1:B:348:LYS:HZ2	1.50	0.59
1:B:265:LEU:HB3	1:B:296:ALA:CB	2.32	0.59
1:B:478:ASN:O	1:B:480:PHE:N	2.33	0.59
2:L:157:ILE:HG12	2:L:214:LEU:HD13	1.84	0.59
2:N:150:PHE:HB2	2:N:152:PHE:HE1	1.66	0.59
1:A:164:GLU:O	1:A:167:LEU:HB3	2.03	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:B:802:ILE:HG22	1:B:802:ILE:O	2.01	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:A:201:ASP:O	1:A:204:THR:OG1	2.16	0.59
1:A:587:LEU:O	1:A:588:ILE:HG13	2.03	0.59
1:A:713:GLU:O	1:A:720:TYR:HB2	2.02	0.59
1:A:757:VAL:HG12	1:A:758:ALA:H	1.68	0.59
2:J:157:ILE:HG12	2:J:214:LEU:HD13	1.84	0.59
2:K:274:GLN:N	2:K:274:GLN:HE21	2.00	0.59
2:O:8:SER:O	2:O:11:LEU:N	2.36	0.59
1:A:142:LEU:O	1:A:144:ASN:N	2.31	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:B:863:VAL:HG12	1:B:864:GLU:N	2.18	0.59
1:A:262:VAL:CG1	1:A:297:ARG:HB3	2.33	0.58
1:A:326:TYR:CD1	1:A:384:ALA:HB1	2.38	0.58
1:A:699:ILE:HG23	1:A:700:ALA:N	2.17	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:F:12:LYS:C	2:F:14:ALA:H	2.06	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:57:ARG:HH11	2:L:94:ASN:ND2	1.96	0.58
2:L:69:THR:OG1	2:L:70:LEU:N	2.35	0.58
2:L:85:ILE:O	2:L:89:VAL:HG23	2.03	0.58
1:A:516:GLN:OE1	1:A:516:GLN:N	2.31	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
2:C:106:ARG:H	2:C:106:ARG:CD	2.12	0.58
2:D:153:HIS:NE2	2:E:153:HIS:NE2	2.51	0.58
2:I:274:GLN:N	2:I:274:GLN:HE21	2.00	0.58
2:K:142:GLN:HE21	2:K:143:ASN:N	2.01	0.58
1:A:501:HIS:C	1:A:503:ILE:H	2.05	0.58
1:A:810:TYR:O	1:A:812:VAL:N	2.37	0.58
1:B:176:GLU:O	1:B:178:PRO:CD	2.51	0.58
1:B:254:GLU:HB3	2:N:69:THR:OG1	2.02	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:A:223:ARG:O	1:A:226:ALA:HB3	2.03	0.58
1:A:310:LEU:O	1:A:318:TRP:HD1	1.86	0.58
1:A:366:PHE:C	1:A:368:THR:N	2.49	0.58
1:A:499:ASP:HA	1:A:505:GLN:HE21	1.68	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:C:12:LYS:C	2:C:14:ALA:H	2.07	0.58
2:C:157:ILE:HG12	2:C:214:LEU:HD13	1.84	0.58
2:D:274:GLN:HE21	2:D:274:GLN:N	2.00	0.58
2:K:24:TYR:O	2:K:27:VAL:HG22	2.02	0.58
2:N:69:THR:O	2:N:70:LEU:CB	2.52	0.58
2:N:157:ILE:HG12	2:N:214:LEU:HD13	1.84	0.58
1:A:180:TYR:CD1	1:A:180:TYR:C	2.76	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

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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:E:24:TYR:O	2:E:27:VAL:HG22	2.02	0.58
2:F:260:GLU:HG2	2:F:274:GLN:HG3	1.86	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
2:O:274:GLN:HE21	2:O:274:GLN:N	2.00	0.58
1:B:182:LEU:CD2	1:B:846:LEU:HA	2.33	0.58
1:B:394:LEU:O	1:B:396:PHE:N	2.37	0.58
1:B:451:ASP:H	1:B:452:PRO:HD3	1.69	0.58
2:E:260:GLU:HG2	2:E:274:GLN:HG3	1.86	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
2:J:150:PHE:HB2	2:J:152:PHE:HE1	1.68	0.58
2:N:142:GLN:HE21	2:N:143:ASN:N	2.01	0.58
1:A:436:ILE:O	1:A:440:PHE:HB3	2.03	0.58
1:A:503:ILE:HG22	1:A:506:LEU:H	1.69	0.58
2:C:7:LEU:O	2:C:11:LEU:HG	2.04	0.58
2:D:12:LYS:C	2:D:14:ALA:H	2.07	0.58
2:F:5:TYR:CE2	2:F:131:ASN:HA	2.39	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
1:A:188:VAL:CG1	1:A:189:GLU:N	2.66	0.58
1:B:200:VAL:HG12	1:B:201:ASP:N	2.18	0.58
1:B:508:GLU:HG2	1:B:512:GLN:NE2	2.18	0.58
2:C:8:SER:O	2:C:11:LEU:N	2.37	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:I:76:ASN:CA	2:M:76:ASN:HB2	2.33	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
2:M:260:GLU:HG2	2:M:274:GLN:HG3	1.86	0.58
2:O:150:PHE:HB2	2:O:152:PHE:CE1	2.38	0.58
1:A:404:LEU:O	1:A:407:GLY:N	2.37	0.58
1:B:211:ILE:O	1:B:212:PHE:C	2.40	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
1:B:485:ILE:CD1	2:I:76:ASN:HD21	2.17	0.58
2:O:12:LYS:C	2:O:14:ALA:H	2.07	0.58
1:B:94:THR:HG23	1:B:658:PRO:CG	2.34	0.58
1:B:141:GLU:O	1:B:142:LEU:HB2	2.03	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:452:PRO:C	1:B:453:GLN:OE1	2.42	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
2:E:142:GLN:HE21	2:E:143:ASN:N	2.01	0.58
2:F:8:SER:O	2:F:11:LEU:N	2.37	0.58
2:F:69:THR:OG1	2:F:70:LEU:N	2.35	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
1:A:150:LEU:HD12	1:A:696:SER:CB	2.33	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:A:666:ARG:NH2	1:B:879:GLU:OE2	2.36	0.57
1:B:126:PHE:HD2	1:B:126:PHE:H	1.50	0.57
2:D:76:ASN:HB2	2:L:76:ASN:CB	2.34	0.57
2:G:22:THR:O	2:G:72:ASN:HA	2.04	0.57
2:J:22:THR:O	2:J:72:ASN:HA	2.04	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
2:N:12:LYS:C	2:N:14:ALA:H	2.07	0.57
1:A:491:GLN:HB3	1:A:564:ASN:HB3	1.86	0.57
1:A:676:VAL:O	1:A:680:ASP:HB2	2.04	0.57
1:A:853:ASP:O	1:A:854:LEU:HB2	2.03	0.57
1:B:494:ASN:HD22	1:B:495:ASP:N	2.01	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
2:K:85:ILE:O	2:K:89:VAL:HG23	2.04	0.57
1:A:513:LEU:CA	1:A:516:GLN:HE22	1.98	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:A:871:PHE:O	1:A:871:PHE:HD1	1.86	0.57
1:B:244:ILE:HD12	1:B:838:SER:O	2.04	0.57
1:B:816:ASP:O	1:B:817:TRP:HB2	2.02	0.57
2:F:7:LEU:O	2:F:11:LEU:HG	2.04	0.57
1:B:635:GLN:HE22	1:B:740:ARG:HH22	1.51	0.57
1:B:810:TYR:O	1:B:812:VAL:N	2.36	0.57
2:C:5:TYR:CE2	2:C:131:ASN:HA	2.39	0.57
2:E:69:THR:O	2:E:70:LEU:CB	2.51	0.57
2:F:157:ILE:HG12	2:F:214:LEU:HD13	1.84	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: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:O:73:LEU:HD22	2:O:77:TYR:CD2	2.38	0.57
2:O:144:ARG:O	2:O:145:ARG:HG2	2.04	0.57
1:A:421:ARG:CB	1:B:523:VAL:HG21	2.35	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:493:LEU:HD11	1:B:567:HIS:HB2	1.87	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:B:606:VAL:O	1:B:607:ASN:C	2.43	0.57
1:B:645:PHE:HD2	1:B:646:LEU:HD23	1.70	0.57
2:H:88:PHE:O	2:H:91:PHE:HB3	2.05	0.57
2:O:7:LEU:O	2:O:11:LEU:HG	2.05	0.57
1:A:269:ILE:HG21	1:A:298:TYR:CE2	2.39	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
2:H:260:GLU:HG2	2:H:274:GLN:HG3	1.86	0.57
2:N:88:PHE:O	2:N:91:PHE:HB3	2.05	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:H:76:ASN:HB3	2:J:76:ASN:HB2	1.83	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: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
1:B:791:LYS:O	1:B:792:VAL:CG2	2.48	0.57
2:C:260:GLU:HG2	2:C:274:GLN:HG3	1.86	0.57
2:D:260:GLU:HG2	2:D:274:GLN:HG3	1.86	0.57
2:E:8:SER:O	2:E:11:LEU:N	2.37	0.57
2:G:8:SER:O	2:G:11:LEU:N	2.38	0.57
2:G:260:GLU:HG2	2:G:274:GLN:HG3	1.86	0.57
2:I:260:GLU:HG2	2:I:274:GLN:HG3	1.86	0.57
2:K:7:LEU:O	2:K:11:LEU:HG	2.05	0.57
2:L:260:GLU:HG2	2:L:274:GLN:HG3	1.86	0.57
2:N:85:ILE:O	2:N:89:VAL:HG23	2.04	0.57
1:A:131:LEU:HD12	1:A:132:PRO:CD	2.34	0.57
1:A:319:ASP:OD2	1:A:571:LEU:N	2.38	0.57
1:A:346:ILE:HD11	1:A:369:GLY:HA2	1.85	0.57
1:B:433:ASN:C	1:B:435:ILE:H	2.07	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:8:SER:O	2:D:11:LEU:N	2.38	0.57
2:J:8:SER:O	2:J:11:LEU:N	2.38	0.57
2:O:12:LYS:HG2	2:O:16:ASP:OD2	2.05	0.57
2:O:109:ILE:HD12	2:O:109:ILE:O	2.05	0.57
1:A:130:GLN:O	1:A:131:LEU:CB	2.53	0.57
1:A:694:ARG:HA	1:A:701:GLN:HE22	1.70	0.57
1:A:793:ASP:C	1:A:795:LEU:H	2.07	0.57
1:B:150:LEU:HD12	1:B:696:SER:HA	1.87	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:B:770:SER:O	1:B:771:VAL:C	2.42	0.57
2:D:130:ASP:OD2	2:E:17:LYS:HE3	2.05	0.57
2:E:85:ILE:O	2:E:89:VAL:HG23	2.04	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:H:85:ILE:O	2:H:89:VAL:HG23	2.04	0.57
2:H:142:GLN:HE21	2:H:143:ASN:N	2.02	0.57
2:J:12:LYS:HG2	2:J:16:ASP:OD2	2.05	0.57
1:A:810:TYR:CD1	1:A:811:LEU:N	2.73	0.56
1:B:122:LEU:HG	1:B:201:ASP:HB3	1.86	0.56
1:B:164:GLU:O	1:B:167:LEU:HB3	2.05	0.56
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
2:D:12:LYS:HG2	2:D:16:ASP:OD2	2.05	0.56
2:M:12:LYS:C	2:M:14:ALA:H	2.07	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
1:B:790:ARG:HG3	1:B:791:LYS:N	2.21	0.56
2:C:124:PHE:O	2:C:127:ILE:HG13	2.06	0.56
2:K:30:LEU:O	2:K:31:ILE:C	2.43	0.56
1:A:113:PRO:O	1:A:115:GLN:HG2	2.06	0.56
1:A:443:GLN:NE2	1:A:521:MET:HG2	2.20	0.56
1:B:160:TYR:OH	1:B:633:LEU:HG	2.04	0.56
1:B:193:SER:CB	1:B:226:ALA:HA	2.34	0.56
1:B:320:THR:HG21	1:B:652:PHE:HB3	1.88	0.56
1:B:498:ARG:CB	2:I:32:GLN:HE22	2.17	0.56
1:B:503:ILE:HD13	1:B:544:VAL:CG1	2.34	0.56
1:B:712:LEU:CB	1:B:819:PRO:HB2	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:811:LEU:HD23	1:B:811:LEU:H	1.68	0.56
2:D:22:THR:O	2:D:72:ASN:HA	2.04	0.56
2:D:128:ASN:O	2:E:22:THR:HB	2.06	0.56
2:D:150:PHE:HB2	2:D:152:PHE:HE1	1.68	0.56
2:E:88:PHE:O	2:E:91:PHE:HB3	2.05	0.56
2:F:88:PHE:O	2:F:91:PHE:HB3	2.06	0.56
2:G:12:LYS:HG2	2:G:16:ASP:OD2	2.05	0.56
2:I:12:LYS:C	2:I:14:ALA:H	2.07	0.56
2:M:22:THR:O	2:M:72:ASN:HA	2.04	0.56
2:O:88:PHE:O	2:O:91:PHE:HB3	2.05	0.56
1:A:311:HIS:NE2	1:A:566:GLN:NE2	2.52	0.56
1:A:313:ASN:CG	1:B:534:LEU:CD2	2.74	0.56
1:A:763:LEU:HD23	1:A:764:PRO:HD3	1.87	0.56
1:B:464:GLN:NE2	2:H:64:GLY:HA3	2.15	0.56
1:B:506:LEU:CD2	1:B:544:VAL:HA	2.35	0.56
1:B:510:LEU:HA	1:B:513:LEU:HD12	1.87	0.56
2:E:23:LEU:HD22	2:E:25:SER:OG	2.06	0.56
2:F:12:LYS:HG2	2:F:16:ASP:OD2	2.06	0.56
2:H:23:LEU:HD22	2:H:25:SER:OG	2.06	0.56
2:L:124:PHE:O	2:L:127:ILE:HG13	2.05	0.56
2:M:8:SER:O	2:M:11:LEU:N	2.38	0.56
2:O:71:LEU:HG	2:O:72:ASN:OD1	2.05	0.56
2:O:133:SER:O	2:O:136:ILE:HG22	2.05	0.56
1:A:503:ILE:HG22	1:A:506:LEU:HB2	1.88	0.56
1:B:252:PHE:O	1:B:254:GLU:N	2.38	0.56
1:B:803:ASN:N	1:B:807:ASN:HD21	2.02	0.56
2:E:12:LYS:C	2:E:14:ALA:H	2.07	0.56
2:F:133:SER:O	2:F:136:ILE:HG22	2.05	0.56
2:G:128:ASN:O	2:H:22:THR:HB	2.06	0.56
2:L:7:LEU:O	2:L:11:LEU:HG	2.04	0.56
2:L:12:LYS:HG2	2:L:16:ASP:OD2	2.06	0.56
2:L:88:PHE:O	2:L:91:PHE:HB3	2.06	0.56
2:L:133:SER:O	2:L: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:156:PRO:HB2	1:B:161:ASP:CB	2.33	0.56
1:B:654:VAL:HG12	1:B:655:ALA:N	2.20	0.56
1:B:786:ILE:O	1:B:787:VAL:C	2.44	0.56
1:B:812:VAL:HG23	1:B:817:TRP:CZ3	2.40	0.56
1:B:812:VAL:HG23	1:B:817:TRP:CE3	2.41	0.56
1:B:848:PHE:C	1:B:849:THR:OG1	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:133:SER:O	2:C:136:ILE:HG22	2.05	0.56
2:F:153:HIS:NE2	2:H:153:HIS:NE2	2.54	0.56
2:H:74:ASP:OD2	2:J:76:ASN:HB2	2.05	0.56
2:I:88:PHE:O	2:I:91:PHE:HB3	2.06	0.56
2:O:147:ARG:O	2:O:148:THR:HB	2.05	0.56
1:A:631:LEU:HB3	1:A:633:LEU:CD1	2.35	0.56
1:B:422:GLU:OE1	1:B:422:GLU:N	2.39	0.56
1:B:535:LEU:O	1:B:539:ARG:CG	2.54	0.56
1:B:563:MET:SD	1:B:611:HIS:CD2	2.98	0.56
1:B:783:PHE:O	1:B:784:ALA:C	2.42	0.56
2:C:12:LYS:HG2	2:C:16:ASP:OD2	2.06	0.56
2:F:106:ARG:HG2	2:F:107:ASN:H	1.71	0.56
2:G:130:ASP:OD2	2:H:17:LYS:HE3	2.05	0.56
2:I:153:HIS:NE2	2:K:153:HIS:NE2	2.54	0.56
2:M:12:LYS:HG2	2:M:16:ASP:OD2	2.05	0.56
2:N:7:LEU:O	2:N:11:LEU:HG	2.05	0.56
2:O:69:THR:O	2:O:70:LEU:O	2.22	0.56
2:O:260:GLU:HG2	2:O:274:GLN:HG3	1.86	0.56
1:A:305:GLN:OE1	1:A:564:ASN:ND2	2.38	0.56
1:A:332:VAL:HG13	1:A:599:THR:HG22	1.88	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:703:VAL:HG13	1:B:825:VAL:HG22	1.87	0.56
1:B:810:TYR:C	1:B:812:VAL:HG12	2.26	0.56
1:B:825:VAL:CG1	1:B:826:TYR:H	2.19	0.56
2:H:30:LEU:O	2:H:31:ILE:C	2.43	0.56
2:I:106:ARG:HG2	2:I:107:ASN:H	1.71	0.56
2:J:130:ASP:OD2	2:K:17:LYS:HE3	2.04	0.56
1:B:153:ASP:CG	1:B:153:ASP:O	2.44	0.56
1:B:275:PRO:HD2	1:B:278:ILE:HD12	1.86	0.56
2:E:12:LYS:HG2	2:E:16:ASP:OD2	2.06	0.56
2:K:88:PHE:O	2:K:91:PHE:HB3	2.05	0.56
1:A:163:ARG:HH22	1:A:736:GLU:CD	2.10	0.56
1:A:263[A]:GLU:HB3	1:A:264:PRO:HD3	1.87	0.56
1:A:486:ASP:HB2	1:A:490:ASN:ND2	2.20	0.56
1:A:517:GLN:O	1:A:517:GLN:HG3	2.06	0.56
1:A:593:VAL:O	1:A:594:ILE:HG13	2.06	0.56
1:B:369:GLY:HA2	1:B:371:ASN:OD1	2.06	0.56
1:B:742:GLY:O	1:B:744:TYR:HE2	1.89	0.56
2:D:133:SER:O	2:D:136:ILE:HG22	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:362:SER:HA	1:A:365:GLN:HE21	1.69	0.55
1:A:414:VAL:HG12	1:A:418:MET:HB2	1.87	0.55
1:A:428:GLN:CG	1:A:429:LEU:N	2.69	0.55
1:A:501:HIS:O	1:A:503:ILE:N	2.34	0.55
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:B:625:ILE:O	1:B:628:ALA:HB3	2.07	0.55
2:C:57:ARG:HH11	2:C:94:ASN:ND2	1.96	0.55
2:G:133:SER:O	2:G:136:ILE:HG22	2.06	0.55
2:H:7:LEU:O	2:H:11:LEU:HG	2.05	0.55
2:J:128:ASN:O	2:K:22:THR:HB	2.06	0.55
2:L:153:HIS:NE2	2:N:153:HIS:NE2	2.54	0.55
2:M:88:PHE:O	2:M:91:PHE:HB3	2.06	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:783:PHE:O	1:A:784:ALA:C	2.42	0.55
1:A:869:VAL:HG11	1:A:873:ASN:HA	1.87	0.55
1:B:240:ASN:HA	1:B:842:LEU:O	2.07	0.55
1:B:498:ARG:CB	1:B:505:GLN:HE22	2.10	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
2:I:133:SER:O	2:I:136:ILE:HG22	2.05	0.55
2:K:23:LEU:HD22	2:K:25:SER:OG	2.06	0.55
2:L:22:THR:OG1	2:L:26:ASN:ND2	2.39	0.55
1:A:436:ILE:HG13	1:A:437:TYR:H	1.70	0.55
1:A:705:ILE:O	1:A:705:ILE:HG12	2.06	0.55
1:A:727:LEU:HD23	1:A:826:TYR:CE1	2.41	0.55
1:A:777:LYS:HE2	1:A:780:ALA:HB2	1.88	0.55
1:B:389:GLN:HG3	1:B:565:MET:HB2	1.88	0.55
2:C:88:PHE:O	2:C:91:PHE:HB3	2.06	0.55
2:F:124:PHE:O	2:F:127:ILE:HG13	2.06	0.55
2:K:24:TYR:O	2:K:26:ASN:N	2.40	0.55
2:M:54:LEU:HD12	2:M:55:PRO:CD	2.36	0.55
1:A:199:VAL:CG1	1:A:200:VAL:H	2.02	0.55
1:A:270:ILE:HD11	1:A:292:LEU:CD1	2.30	0.55
1:A:313:ASN:HD21	1:B:538:ASN:ND2	2.04	0.55
1:A:803:ASN:C	1:A:805:ASP:H	2.10	0.55
1:B:214:ASP:O	1:B:216:GLU:N	2.38	0.55
1:B:457:GLN:HG3	1:B:458:ILE:N	2.21	0.55
1:B:717:MET:HE1	1:B:830:PRO:CG	2.37	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)
2:E:129:PHE:CD1	2:E:129:PHE:C	2.80	0.55
2:K:12:LYS:HG2	2:K:16:ASP:OD2	2.06	0.55
2:M:150:PHE:HB2	2:M:152:PHE:HE1	1.68	0.55
2:N:133:SER:O	2:N:136:ILE:HG22	2.07	0.55
1:A:603:TYR:O	1:A:606:VAL:CG2	2.54	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
2:F:30:LEU:O	2:F:31:ILE:C	2.44	0.55
2:G:30:LEU:O	2:G:31:ILE:C	2.45	0.55
2:H:24:TYR:O	2:H:26:ASN:N	2.39	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:128:ASN:O	2:N:22:THR:HB	2.06	0.55
2:M:133:SER:O	2:M:136:ILE:HG22	2.06	0.55
2:N:24:TYR:O	2:N:26:ASN:N	2.40	0.55
1:A:539:ARG:O	1:A:542:GLN:N	2.39	0.55
1:A:704:ILE:O	1:A:823:THR:HB	2.07	0.55
1:A:721:VAL:HG11	1:A:799:LEU:HD22	1.87	0.55
1:B:258:GLN:HE21	2:N:70:LEU:HA	1.71	0.55
1:B:727:LEU:O	1:B:728:ASP:CB	2.54	0.55
2:C:22:THR:OG1	2:C:26:ASN:ND2	2.39	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:H:152:PHE:N	2:H:152:PHE:CD1	2.75	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:N:73:LEU:HD22	2:N:77:TYR:CD2	2.42	0.55
1:A:730:PHE:N	1:A:730:PHE:CD1	2.74	0.55
1:A:839:MET:HG2	1:A:840:HIS:N	2.21	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
1:B:675:GLU:O	1:B:676:VAL:C	2.44	0.55
2:D:30:LEU:O	2:D:31:ILE:C	2.45	0.55
2:D:54:LEU:HD12	2:D:55:PRO:CD	2.36	0.55
2:I:12:LYS:C	2:I:14:ALA:N	2.60	0.55
2:J:7:LEU:O	2:J:11:LEU:HG	2.07	0.55
2:M:100:MET:HG3	2:M:388:VAL:HG11	1.89	0.55
2:N:12:LYS:HG2	2:N:16:ASP:OD2	2.06	0.55
1:A:322:THR:HG21	1:A:390:ARG:HA	1.88	0.55
1:A:371:ASN:O	1:A:373:GLN:N	2.40	0.55
1:A:563:MET:HE2	1:A:563:MET:CA	2.17	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:817:TRP:CD1	1:B:818:VAL:N	2.73	0.55
2:E:152:PHE:N	2:E:152:PHE:CD1	2.75	0.55
2:I:22:THR:OG1	2:I:26:ASN:ND2	2.39	0.55
2:I:30:LEU:O	2:I:31:ILE:C	2.44	0.55
2:I:124:PHE:O	2:I:127:ILE:HG13	2.06	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:L:106:ARG:HG2	2:L:107:ASN:H	1.71	0.55
2:N:23:LEU:HD22	2:N:25:SER:OG	2.06	0.55
2:N:152:PHE:N	2:N:152:PHE:CD1	2.75	0.55
1:A:108:LEU:O	1:A:111:ILE:HG22	2.06	0.55
1:A:124:ARG:C	1:A:125:ILE:HD12	2.27	0.55
1:A:179:ASP:HA	1:A:677:ARG:HH22	1.72	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:A:594:ILE:HG23	1:A:595:PRO:CD	2.37	0.55
1:A:803:ASN:HD22	1:A:806:SER:H	1.55	0.55
1:B:118:LYS:HG2	1:B:119:GLN:H	1.71	0.55
1:B:224:PHE:CE1	2:O:71:LEU:HB2	2.42	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:314:PHE:CZ	1:B:664:ARG:HG2	2.42	0.55
1:B:421:ARG:HB3	1:B:422:GLU:OE1	2.07	0.55
1:B:515:ARG:HG3	1:B:515:ARG:O	2.07	0.55
1:B:519:PRO:O	1:B:520:THR:OG1	2.23	0.55
1:B:681:ILE:O	1:B:685:ILE:HG13	2.06	0.55
2:D:133:SER:O	2:D:135:TYR:N	2.40	0.55
2:G:12:LYS:C	2:G:14:ALA:N	2.60	0.55
2:H:133:SER:O	2:H:136:ILE:HG22	2.07	0.55
2:J:133:SER:O	2:J:135:TYR:N	2.40	0.55
1:A:445:MET:C	1:A:447:TYR:N	2.59	0.55
1:A:548:ARG:O	1:A:551:ALA:HB3	2.06	0.55
1:A:822:THR:C	1:A:823:THR:HG23	2.27	0.55
1:B:255:TYR:HA	2:N:69:THR:HG23	1.85	0.55
1:B:544:VAL:HG11	1:B:548:ARG:HH21	1.71	0.55
2:D:76:ASN:CB	2:L:76:ASN:HB2	2.35	0.55
2:D:100:MET:HG3	2:D:388:VAL:HG11	1.89	0.55
2:L:12:LYS:C	2:L:14:ALA:N	2.60	0.55
2:L:30:LEU:O	2:L:31:ILE:C	2.44	0.55
2:M:7:LEU:O	2:M:11:LEU:HG	2.07	0.55
2:N:30:LEU:O	2:N:31:ILE:C	2.44	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:275:PRO:HB2	1:A:278:ILE:CG1	2.36	0.54
1:A:421:ARG:O	1:A:423:SER:N	2.41	0.54
1:A:488:VAL:O	1:A:490:ASN:N	2.40	0.54
1:B:401:TYR:HA	1:B:404:LEU:HD12	1.89	0.54
2:E:27:VAL:O	2:E:31:ILE:HG12	2.07	0.54
2:F:22:THR:OG1	2:F:26:ASN:ND2	2.39	0.54
2:H:129:PHE:C	2:H:129:PHE:CD1	2.80	0.54
2:J:54:LEU:HD12	2:J:55:PRO:CD	2.36	0.54
2:K:73:LEU:HD22	2:K:77:TYR:CD2	2.42	0.54
2:K:129:PHE:C	2:K:129:PHE:CD1	2.80	0.54
1:A:365:GLN:C	1:A:366:PHE:CD1	2.81	0.54
1:A:700:ALA:O	1:A:701:GLN:HB2	2.06	0.54
1:A:738:LEU:O	1:A:741:THR:HG22	2.07	0.54
2:C:12:LYS:C	2:C:14:ALA:N	2.60	0.54
2:C:153:HIS:NE2	2:E:153:HIS:NE2	2.54	0.54
2:D:7:LEU:O	2:D:11:LEU:HG	2.07	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:J:88:PHE:O	2:J:91:PHE:HB3	2.06	0.54
2:K:27:VAL:O	2:K:31:ILE:HG12	2.07	0.54
2:L:167:ASN:ND2	2:L:178:GLY:HA2	2.23	0.54
2:M:30:LEU:O	2:M:31:ILE:C	2.45	0.54
2:N:12:LYS:C	2:N:14:ALA:N	2.60	0.54
2:O:144:ARG:O	2:O:146:GLN:N	2.40	0.54
1:A:492:VAL:HG22	1:A:558:MET:SD	2.47	0.54
1:A:717:MET:HG3	1:A:718:TYR:H	1.71	0.54
1:B:246:HIS:HD2	1:B:248:ILE:H	1.55	0.54
1:B:285:ILE:O	1:B:286:LEU:HD13	2.07	0.54
1:B:451:ASP:N	1:B:452:PRO:HD3	2.22	0.54
1:B:684:LEU:O	1:B:687:MET:HG2	2.08	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
2:G:88:PHE:O	2:G:91:PHE:HB3	2.06	0.54
2:M:133:SER:O	2:M:135:TYR:N	2.40	0.54
1:A:437:TYR:H	1:A:438:PRO:HD2	1.70	0.54
1:A:587:LEU:C	1:A:588:ILE:HG13	2.28	0.54
1:A:804:SER:HB3	1:A:813:ALA:HB2	1.88	0.54
1:B:260:GLN:O	1:B:262:VAL:N	2.40	0.54
1:B:315:GLU:CB	1:B:571:LEU:HD11	2.37	0.54
1:B:333:VAL:HG11	1:B:380:LYS:HA	1.89	0.54
1:B:792:VAL:HG23	1:B:792:VAL:O	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:24:TYR:O	2:E:26:ASN:N	2.40	0.54
2:F:12:LYS:C	2:F:14:ALA:N	2.60	0.54
2:K:133:SER:O	2:K:135:TYR:N	2.41	0.54
2:O:30:LEU:O	2:O:31:ILE:C	2.45	0.54
1:A:374:ALA:HB1	1:A:580:SER:HA	1.90	0.54
1:B:302:ASN:HD21	1:B:615:ASN:HB3	1.73	0.54
1:B:485:ILE:CD1	2:I:76:ASN:ND2	2.71	0.54
2:E:12:LYS:C	2:E:14:ALA:N	2.60	0.54
2:E:133:SER:O	2:E:136:ILE:HG22	2.07	0.54
2:F:57:ARG:HH11	2:F:94:ASN:ND2	1.96	0.54
2:H:73:LEU:HD22	2:H:77:TYR:CD2	2.42	0.54
2:K:152:PHE:N	2:K:152:PHE:CD1	2.75	0.54
2:O:38:ILE:HG22	2:O:42:ASN:ND2	2.18	0.54
1:A:313:ASN:ND2	1:B:534:LEU:CD2	2.66	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:B:498:ARG:CZ	2:J:23:LEU:HD11	2.27	0.54
1:B:775:ILE:HD12	1:B:775:ILE:N	2.19	0.54
2:C:133:SER:O	2:C:135:TYR:N	2.41	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
2:N:133:SER:O	2:N:135:TYR:N	2.41	0.54
2:O:158:PHE:HE2	2:O:214:LEU:HD22	1.73	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
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
2:G:100:MET:HG3	2:G:388:VAL:HG11	1.89	0.54
1:A:151:LYS:O	1:A:152:LYS:HB2	2.07	0.54
1:A:524:ASP:O	1:A:526:LYS:HG2	2.07	0.54
1:A:613:ASN:O	1:A:617:ARG:HG2	2.08	0.54
1:A:839:MET:HE3	1:A:839:MET:C	2.28	0.54
1:B:118:LYS:HG2	1:B:119:GLN:N	2.23	0.54
1:B:228:MET:HG3	1:B:228:MET:O	2.07	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:B:645:PHE:CD2	1:B:646:LEU:HD23	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:839:MET:SD	1:B:839:MET:C	2.86	0.54
2:C:158:PHE:HE2	2:C:214:LEU:HD22	1.73	0.54
2:D:167:ASN:ND2	2:D:178:GLY:HA2	2.22	0.54
2:N:129:PHE:CD1	2:N:129:PHE:C	2.80	0.54
1:A:263[A]:GLU:HB3	1:A:264:PRO:HD2	1.90	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
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:G:167:ASN:ND2	2:G:178:GLY:HA2	2.23	0.54
2:N:27:VAL:O	2:N:31:ILE:HG12	2.07	0.54
2:O:9:LYS:O	2:O:13:ASP:HB2	2.08	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
1:B:477:ASN:OD1	2:I:39:ILE:HG23	2.07	0.54
1:B:498:ARG:CD	2:I:32:GLN:HE21	2.21	0.54
2:E:73:LEU:HD22	2:E:77:TYR:CD2	2.42	0.54
2:E:167:ASN:ND2	2:E:178:GLY:HA2	2.22	0.54
2:H:158:PHE:HE2	2:H:214:LEU:HD22	1.73	0.54
2:J:9:LYS:O	2:J:13:ASP:HB2	2.08	0.54
2:L:158:PHE:HE2	2:L:214:LEU:HD22	1.73	0.54
2:M:130:ASP:CG	2:N:17:LYS:HE3	2.29	0.54
1:A:273:TYR:O	1:A:273:TYR:HD2	1.91	0.53
1:A:303:LEU:HA	1:A:615:ASN:HD22	1.69	0.53
1:A:732:GLN:O	1:A:733:ILE:HG23	2.09	0.53
1:A:802:ILE:HA	1:A:807:ASN:ND2	2.24	0.53
1:B:266:ASN:O	1:B:267:ASN:C	2.45	0.53
1:B:650:HIS:O	1:B:652:PHE:N	2.41	0.53
1:B:811:LEU:HA	1:B:814:ASN:ND2	2.23	0.53
1:B:872:ASP:CG	1:B:874:MET:H	2.11	0.53
2:D:12:LYS:C	2:D:14:ALA:N	2.60	0.53
2:D:155:PRO:O	2:D:186:SER:HB3	2.09	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
2:M:12:LYS:C	2:M:14:ALA:N	2.60	0.53
2:M:167:ASN:ND2	2:M:178:GLY:HA2	2.22	0.53
1:A:535:LEU:O	1:A:539:ARG:HG2	2.09	0.53
1:A:712:LEU:HG	1:A:819:PRO:CB	2.35	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: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)
1:B:707:TYR:OH	1:B:751:LEU:HD12	2.08	0.53
2:F:133:SER:O	2:F:135:TYR:N	2.41	0.53
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:O:215:ARG:HG3	2:O:371:ILE:O	2.09	0.53
1:A:135:ARG:O	1:A:136:ALA:C	2.46	0.53
1:A:326:TYR:CD1	1:A:384:ALA:CB	2.91	0.53
1:A:447:TYR:HH	1:A:458:ILE:HG23	1.72	0.53
1:A:589:GLY:O	1:A:591:ALA:N	2.35	0.53
1:A:786:ILE:HG23	1:A:792:VAL:CG1	2.36	0.53
1:B:134:TYR:CE2	1:B:803:ASN:HB2	2.43	0.53
1:B:199:VAL:CG1	1:B:200:VAL:H	2.20	0.53
1:B:857:PHE:H	1:B:857:PHE:HD1	1.56	0.53
2:D:130:ASP:CG	2:E:17:LYS:HE3	2.29	0.53
2:D:215:ARG:HG3	2:D:371:ILE:O	2.09	0.53
2:H:12:LYS:C	2:H:14:ALA:N	2.60	0.53
2:K:167:ASN:ND2	2:K:178:GLY:HA2	2.22	0.53
2:L:133:SER:O	2:L:135:TYR:N	2.41	0.53
1:A:118:LYS:CG	1:A:119:GLN:H	2.13	0.53
1:A:311:HIS:ND1	1:A:311:HIS:N	2.55	0.53
1:A:604:TYR:O	1:A:608:VAL:HG23	2.08	0.53
1:B:258:GLN:HG3	2:N:70:LEU:CA	2.38	0.53
1:B:288:MET:CE	1:B:288:MET:HA	2.39	0.53
1:B:511:MET:HE2	2:J:70:LEU:H	1.73	0.53
1:B:803:ASN:N	1:B:807:ASN:ND2	2.57	0.53
2:C:21:GLY:O	2:C:22:THR:O	2.27	0.53
2:G:158:PHE:HE2	2:G:214:LEU:HD22	1.74	0.53
2:L:215:ARG:HG3	2:L:371:ILE:O	2.09	0.53
2:O:133:SER:O	2:O:135:TYR:N	2.42	0.53
1:A:252:PHE:O	1:A:254:GLU:N	2.42	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
1:B:124:ARG:NH2	1:B:203:GLU:HB2	2.24	0.53
1:B:368:THR:HG22	1:B:371:ASN:ND2	2.19	0.53
1:B:556:THR:O	1:B:557:LEU:C	2.45	0.53
1:B:790:ARG:HG3	1:B:791:LYS:H	1.72	0.53
2:G:155:PRO:O	2:G:186:SER:HB3	2.09	0.53
2:H:133:SER:O	2:H:135:TYR:N	2.41	0.53
2:I:133:SER:O	2:I:135:TYR:N	2.41	0.53
2:L:27:VAL:O	2:L:30:LEU:N	2.42	0.53
1:A:133:ILE:O	1:A:133:ILE:HG13	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:786:ILE:HG22	1:B:790:ARG:NH2	2.23	0.53
2:C:30:LEU:O	2:C:31:ILE:C	2.44	0.53
2:D:9:LYS:O	2:D:13:ASP:HB2	2.08	0.53
2:O:155:PRO:O	2:O:186:SER:HB3	2.09	0.53
1:B:308:LEU:HB3	1:B:310:LEU:CD2	2.39	0.53
1:B:363:GLU:HA	1:B:363:GLU:OE1	2.09	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:485:ILE:HD12	2:I:76:ASN:HD21	1.71	0.53
1:B:783:PHE:O	1:B:786:ILE:HG13	2.09	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:195:ASP:CG	1:A:196:ALA:H	2.12	0.53
1:A:643:GLU:HG2	1:A:662:MET:HE3	1.90	0.53
1:A:688:ASN:O	1:A:689:MET:C	2.47	0.53
1:A:765:PHE:CD1	1:A:765:PHE:C	2.82	0.53
1:B:180:TYR:C	1:B:180:TYR:CD1	2.82	0.53
1:B:378:CYS:SG	1:B:581:VAL:HA	2.49	0.53
2:C:27:VAL:O	2:C:30:LEU:N	2.42	0.53
2:G:9:LYS:O	2:G:13:ASP:HB2	2.08	0.53
2:G:215:ARG:HG3	2:G:371:ILE:O	2.09	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:N:167:ASN:ND2	2:N:178:GLY:HA2	2.22	0.53
1:A:203:GLU:O	1:A:207:ILE:HG13	2.09	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:B:457:GLN:OE1	1:B:460:GLU:HB2	2.09	0.53
1:B:805:ASP:C	1:B:807:ASN:N	2.62	0.53
2:C:215:ARG:HG3	2:C:371:ILE:O	2.09	0.53
2:D:23:LEU:HD22	2:D:25:SER:OG	2.09	0.53
2:E:215:ARG:HG3	2:E:371:ILE:O	2.09	0.53
2:I:21:GLY:O	2:I:22:THR:O	2.27	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
2:L:21:GLY:O	2:L:22:THR:O	2.27	0.53
2:N:123:LYS:HG3	2:N:124:PHE:CD1	2.44	0.53
1:A:160:TYR:CE2	1:A:635:GLN:HB2	2.44	0.53
1:A:332:VAL:O	1:A:333:VAL:C	2.47	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:A:729:GLY:C	1:A:730:PHE:CD1	2.82	0.53
1:B:698:LYS:O	1:B:699:ILE:CB	2.56	0.53
2:D:145:ARG:O	2:D:146:GLN:HG3	2.09	0.53
2:G:23:LEU:HD22	2:G:25:SER:OG	2.08	0.53
2:I:167:ASN:ND2	2:I:178:GLY:HA2	2.23	0.53
2:O:53:ASN:ND2	2:O:354:ALA:HB3	2.24	0.53
2:O:144:ARG:C	2:O:145:ARG:HG2	2.29	0.53
1:A:508:GLU:O	1:A:512:GLN:NE2	2.36	0.52
1:B:326:TYR:CD1	1:B:384:ALA:CB	2.92	0.52
2:H:215:ARG:HG3	2:H:371:ILE:O	2.09	0.52
2:J:130:ASP:CG	2:K:17:LYS:HE3	2.29	0.52
2:M:23:LEU:HD22	2:M:25:SER:OG	2.08	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:O:12:LYS:C	2:O:14:ALA:N	2.60	0.52
1:A:299:ILE:HG22	1:A:300:ARG:N	2.24	0.52
1:A:540:LEU:HA	1:A:543:LEU:HB2	1.90	0.52
1:B:111:ILE:HG22	1:B:113:PRO:HG3	1.91	0.52
1:B:223:ARG:O	1:B:226:ALA:HB3	2.10	0.52
1:B:319:ASP:OD2	1:B:571:LEU:HB2	2.09	0.52
1:B:825:VAL:HG12	1:B:826:TYR:H	1.73	0.52
2:I:158:PHE:HE2	2:I:214:LEU:HD22	1.73	0.52
1:A:741:THR:HG23	1:A:743:ASP:H	1.73	0.52
1:B:124:ARG:HD2	1:B:203:GLU:OE1	2.09	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:709:ASP:HB3	1:B:820:THR:HG23	1.90	0.52
2:F:21:GLY:O	2:F:22:THR:O	2.27	0.52
2:H:167:ASN:ND2	2:H:178:GLY:HA2	2.22	0.52
2:I:129:PHE:CD1	2:I:129:PHE:C	2.83	0.52
2:I:215:ARG:HG3	2:I:371:ILE:O	2.09	0.52
2:I:381:ASN:O	2:I:385:VAL:HB	2.10	0.52
2:J:215:ARG:HG3	2:J:371:ILE:O	2.09	0.52
2:L:129:PHE:CD1	2:L:129:PHE:C	2.83	0.52
1:A:200:VAL:O	1:A:204:THR:OG1	2.27	0.52
1:A:555:GLU:OE1	1:A:871:PHE:CD2	2.63	0.52
2:F:158:PHE:HE2	2:F:214:LEU:HD22	1.73	0.52
2:G:130:ASP:CG	2:H:17:LYS:HE3	2.29	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

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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:A:443:GLN:HE21	1:A:521:MET:HB3	1.73	0.52
1:A:777:LYS:O	1:A:777:LYS:HG2	2.10	0.52
1:B:419:PHE:O	1:B:420:ILE:C	2.47	0.52
1:B:613:ASN:O	1:B:617:ARG:HG2	2.10	0.52
1:A:236:ARG:O	1:A:237:ASN:HB3	2.09	0.52
1:A:298:TYR:O	1:A:299:ILE:HB	2.10	0.52
1:A:333:VAL:HB	1:A:380:LYS:HG2	1.91	0.52
1:A:771:VAL:HG12	1:A:809:PHE:HB3	1.92	0.52
1:B:127:GLU:OE1	1:B:151:LYS:HG2	2.10	0.52
1:B:224:PHE:HE2	1:B:839:MET:HG3	1.74	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:563:MET:HA	1:B:563:MET:HE3	1.92	0.52
1:B:630:ARG:HB3	2:L:71:LEU:HD13	1.90	0.52
1:B:823:THR:CG2	1:B:824:LYS:N	2.72	0.52
2:C:9:LYS:O	2:C:13:ASP:HB2	2.10	0.52
2:E:123:LYS:HG3	2:E:124:PHE:CD1	2.44	0.52
2:F:27:VAL:O	2:F:30:LEU:N	2.42	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:492:VAL:CG1	1:A:558:MET:SD	2.97	0.52
1:A:554:TYR:CZ	1:A:558:MET:CE	2.92	0.52
1:B:272:ASN:C	1:B:274:ILE:N	2.63	0.52
2:C:381:ASN:O	2:C:385:VAL:HB	2.10	0.52
2:F:6:SER:OG	2:F:128:ASN:HA	2.10	0.52
2:F:129:PHE:CD1	2:F:129:PHE:C	2.83	0.52
2:H:381:ASN:O	2:H:385:VAL:HB	2.10	0.52
2:M:9:LYS:O	2:M:13:ASP:HB2	2.08	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:O:41:MET:O	2:O:42:ASN:C	2.48	0.52
1:A:250:TYR:HB2	1:A:840:HIS:CD2	2.45	0.52
1:A:308:LEU:HB2	1:A:614:TYR:OH	2.08	0.52
1:A:697:ASP:HB3	1:A:765:PHE:HE2	1.72	0.52
1:B:271:PHE:O	1:B:274:ILE:HB	2.10	0.52
1:B:577:GLN:C	1:B:579:THR:H	2.12	0.52
1:B:587:LEU:O	1:B:587:LEU:CG	2.58	0.52
1:B:822:THR:HG22	1:B:822:THR:O	2.08	0.52
2:D:158:PHE:HE2	2:D:214:LEU:HD22	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:97:MET:O	2:F:101:VAL:HG13	2.10	0.52
2:F:215:ARG:HG3	2:F:371:ILE:O	2.09	0.52
2:H:4:LEU:O	2:H:5:TYR:C	2.48	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
1:A:125:ILE:N	1:A:125:ILE:CD1	2.63	0.52
1:A:265:LEU:HB3	1:A:296:ALA:HB1	1.92	0.52
1:A:339:LEU:O	1:A:340:VAL:C	2.47	0.52
1:A:384:ALA:O	1:A:385:ALA:C	2.48	0.52
1:A:546:LEU:HD13	1:A:584:LEU:HD23	1.90	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:B:293:PRO:C	1:B:295:THR:N	2.63	0.52
1:B:498:ARG:O	1:B:502:VAL:HB	2.10	0.52
1:B:711:GLN:HE21	1:B:818:VAL:HG11	1.75	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:D:150:PHE:CD1	2:D:150:PHE:N	2.78	0.52
2:J:128:ASN:ND2	2:K:19:VAL:HG21	2.25	0.52
2:J:167:ASN:ND2	2:J:178:GLY:HA2	2.23	0.52
2:O:22:THR:CG2	2:O:73:LEU:HD12	2.40	0.52
2:O:124:PHE:O	2:O:127:ILE:HG13	2.09	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: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
1:B:122:LEU:HD12	1:B:124:ARG:HH21	1.75	0.52
1:B:122:LEU:HD11	1:B:200:VAL:HG12	1.92	0.52
1:B:548:ARG:HH11	1:B:878:ASN:N	2.05	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
2:O:381:ASN:O	2:O:385:VAL:HB	2.10	0.52
1:A:267:ASN:N	1:A:292:LEU:HD12	2.26	0.51
1:A:523:VAL:O	1:A:526:LYS:HE2	2.10	0.51
1:B:95:ILE:HG22	1:B:97:THR:OG1	2.09	0.51
1:B:478:ASN:O	1:B:478:ASN:CG	2.47	0.51
1:B:653:ASP:O	1:B:653:ASP:CG	2.47	0.51
2:C:4:LEU:O	2:C:5:TYR:C	2.49	0.51
2:C:167:ASN:ND2	2:C:178:GLY:HA2	2.23	0.51
2:E:381:ASN:O	2:E:385:VAL:HB	2.10	0.51
2:G:41:MET:O	2:G:42:ASN:C	2.48	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:76:ASN:CB	2:J:76:ASN:CB	2.69	0.51
2:I:106:ARG:H	2:I:106:ARG:CD	2.12	0.51
2:K:151:THR:C	2:K:152:PHE:CD1	2.84	0.51
2:M:123:LYS:HG3	2:M:124:PHE:CD1	2.45	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:145:ARG:HB3	1:A:147:TYR:CE1	2.41	0.51
1:A:332:VAL:HG11	1:A:557:LEU:CD2	2.40	0.51
1:A:340:VAL:HB	1:A:587:LEU:CD2	2.40	0.51
1:A:450:GLY:O	1:A:451:ASP:HB2	2.10	0.51
1:A:527:ARG:CZ	1:A:527:ARG:HB2	2.39	0.51
1:A:647:LYS:O	1:A:649:LEU:N	2.44	0.51
1:B:527:ARG:HG3	1:B:527:ARG:HH11	1.75	0.51
1:B:630:ARG:C	1:B:632:ASN:H	2.13	0.51
2:E:109:ILE:HB	2:E:380:ASP:HB3	1.93	0.51
2:H:123:LYS:HG3	2:H:124:PHE:CD1	2.44	0.51
2:I:4:LEU:O	2:I:5:TYR:C	2.49	0.51
2:K:215:ARG:HG3	2:K:371:ILE:O	2.09	0.51
1:A:364:THR:O	1:A:364:THR:HG22	2.10	0.51
1:A:834:ASP:O	1:A:838:SER:HB2	2.09	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
1:B:774:LEU:HD21	1:B:821:SER:HA	1.93	0.51
2:J:150:PHE:N	2:J:150:PHE:CD1	2.78	0.51
2:K:4:LEU:O	2:K:5:TYR:C	2.48	0.51
2:K:145:ARG:CD	2:L:143:ASN:C	2.79	0.51
2:L:9:LYS:O	2:L:13:ASP:HB2	2.10	0.51
2:M:150:PHE:N	2:M:150:PHE:CD1	2.78	0.51
2:M:360:VAL:O	2:M:378:ARG:HD3	2.11	0.51
2:N:76:ASN:HB2	2:O:76:ASN:HB2	1.92	0.51
1:A:127:GLU:HB3	1:A:151:LYS:HE3	1.93	0.51
1:A:141:GLU:O	1:A:142:LEU:HB2	2.09	0.51
1:A:392:MET:O	1:A:420:ILE:HG23	2.08	0.51
1:A:548:ARG:HH11	1:A:877:MET:H	1.56	0.51
1:A:718:TYR:C	1:A:719:GLY:O	2.45	0.51
1:B:94:THR:HG23	1:B:658:PRO:HG2	1.91	0.51
1:B:135:ARG:O	1:B:138:GLY:N	2.38	0.51
1:B:170:TYR:CE1	1:B:682:PHE:HB2	2.46	0.51
1:B:286:LEU:O	1:B:287:ASN:ND2	2.44	0.51
1:B:513:LEU:CA	1:B:516:GLN:OE1	2.58	0.51
1:B:812:VAL:HG13	1:B:813:ALA:H	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:6:SER:OG	2:C:128:ASN:HA	2.10	0.51
2:G:128:ASN:ND2	2:H:19:VAL:HG21	2.25	0.51
2:H:9:LYS:O	2:H:13:ASP:HB2	2.11	0.51
2:J:145:ARG:O	2:J:146:GLN:HG3	2.09	0.51
2:K:381:ASN:O	2:K:385:VAL:HB	2.10	0.51
2:L:6:SER:OG	2:L:128:ASN:HA	2.10	0.51
2:L:97:MET:O	2:L:101:VAL:HG13	2.10	0.51
1:A:314:PHE:N	1:A:314:PHE:CD1	2.79	0.51
1:A:368:THR:O	1:A:368:THR:HG22	2.11	0.51
1:A:408:MET:HB3	1:A:471:TRP:CZ2	2.46	0.51
1:A:465:ASN:HB3	1:A:468:VAL:HB	1.92	0.51
1:A:467:GLN:HB2	1:A:515:ARG:HD2	1.91	0.51
1:A:473:HIS:HE1	2:G:24:TYR:CD2	2.18	0.51
1:A:494:ASN:CG	1:A:495:ASP:N	2.63	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:B:603:TYR:O	1:B:606:VAL:CG2	2.56	0.51
2:E:151:THR:C	2:E:152:PHE:CD1	2.84	0.51
2:F:9:LYS:O	2:F:13:ASP:HB2	2.10	0.51
2:G:152:PHE:CD1	2:G:152:PHE:N	2.78	0.51
2:G:360:VAL:O	2:G:378:ARG:HD3	2.11	0.51
2:H:109:ILE:HB	2:H:380:ASP:HB3	1.93	0.51
2:J:12:LYS:C	2:J:14:ALA:N	2.60	0.51
2:J:360:VAL:O	2:J:378:ARG:HD3	2.11	0.51
2:M:381:ASN:O	2:M:385:VAL:HB	2.10	0.51
2:N:151:THR:C	2:N:152:PHE:CD1	2.84	0.51
1:A:371:ASN:HA	1:A:374:ALA:CB	2.31	0.51
1:B:322:THR:HG21	1:B:390:ARG:HA	1.93	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:I:12:LYS:O	2:I:14:ALA:N	2.44	0.51
2:K:109:ILE:HB	2:K:380:ASP:HB3	1.93	0.51
1:A:401:TYR:HA	1:A:404:LEU:HD13	1.93	0.51
1:A:779:ASP:HA	1:A:798:ILE:HD12	1.90	0.51
1:A:863:VAL:HG12	1:A:864:GLU:N	2.25	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
1:B:676:VAL:O	1:B:680:ASP:HB2	2.11	0.51
2:D:128:ASN:ND2	2:E:19:VAL:HG21	2.25	0.51
2:D:152:PHE:N	2:D:152:PHE:CD1	2.78	0.51
2:D:381:ASN:O	2:D:385:VAL:HB	2.10	0.51

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:381:ASN:O	2:G:385:VAL:HB	2.10	0.51
2:H:8:SER:C	2:H:10:THR:N	2.64	0.51
2:I:360:VAL:O	2:I:378:ARG:HD3	2.11	0.51
2:J:152:PHE:CD1	2:J:152:PHE:N	2.78	0.51
2:K:9:LYS:O	2:K:13:ASP:HB2	2.10	0.51
1:A:157:ASP:OD1	1:A:764:PRO:HG3	2.10	0.50
1:A:443:GLN:O	1:A:445:MET:N	2.44	0.50
1:A:643:GLU:HG2	1:A:662:MET:CE	2.41	0.50
1:A:710:MET:HE1	1:A:824:LYS:HE2	1.93	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:596:SER:O	1:B:597:PRO:C	2.49	0.50
1:B:874:MET:O	1:B:875:ARG:CB	2.52	0.50
2:E:12:LYS:O	2:E:14:ALA:N	2.44	0.50
2:G:123:LYS:HG3	2:G:124:PHE:CD1	2.45	0.50
2:N:109:ILE:HB	2:N:380:ASP:HB3	1.93	0.50
1:A:512:GLN:O	1:A:516:GLN:NE2	2.44	0.50
1:B:305:GLN:NE2	1:B:564:ASN:CG	2.65	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
1:B:527:ARG:HB2	1:B:527:ARG:CZ	2.41	0.50
1:B:722:ASN:HB2	1:B:824:LYS:HB3	1.93	0.50
2:C:143:ASN:HA	2:N:145:ARG:HD3	1.94	0.50
2:D:8:SER:C	2:D:10:THR:N	2.65	0.50
2:E:253:ILE:HD13	2:E:319:THR:HB	1.93	0.50
2:G:4:LEU:O	2:G:5:TYR:C	2.49	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:M:8:SER:C	2:M:10:THR:N	2.65	0.50
2:M:70:LEU:CD1	2:M:71:LEU:N	2.72	0.50
1:A:428:GLN:OE1	1:A:456:PHE:HD1	1.94	0.50
1:A:548:ARG:HH11	1:A:877:MET:CA	2.24	0.50
1:A:602:HIS:O	1:A:606:VAL:HG22	2.10	0.50
1:B:89:GLU:C	1:B:91:LEU:N	2.64	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
1:B:583:SER:O	1:B:587:LEU:HB3	2.11	0.50
1:B:638:MET:CE	1:B:666:ARG:HH12	2.23	0.50
2:C:54:LEU:HD12	2:C:55:PRO:CD	2.42	0.50
2:E:148:THR:OG1	2:E:332:GLU:HG2	2.12	0.50
2:E:150:PHE:N	2:E:150:PHE:CD1	2.80	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:70:LEU:CD1	2:G:71:LEU:N	2.72	0.50
2:G:148:THR:OG1	2:G:332:GLU:HG2	2.12	0.50
2:H:151:THR:C	2:H:152:PHE:CD1	2.84	0.50
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
1:A:192:ASN:O	1:A:193:SER:CB	2.55	0.50
1:A:464:GLN:O	1:A:465:ASN:HB2	2.10	0.50
1:A:817:TRP:O	1:A:818:VAL:HB	2.11	0.50
1:B:140:LYS:C	1:B:142:LEU:H	2.13	0.50
1:B:190:ASN:HB3	1:B:197:GLY:O	2.11	0.50
2:D:4:LEU:O	2:D:5:TYR:C	2.49	0.50
2:J:253:ILE:HD13	2:J:319:THR:HB	1.93	0.50
2:M:148:THR:OG1	2:M:332:GLU:HG2	2.11	0.50
2:M:152:PHE:N	2:M:152:PHE:CD1	2.78	0.50
2:N:12:LYS:O	2:N:14:ALA:N	2.45	0.50
2:O:106:ARG:HD3	2:O:106:ARG:N	2.21	0.50
1:A:130:GLN:NE2	1:A:146:TRP:CZ2	2.79	0.50
1:A:539:ARG:NE	1:A:586:MET:O	2.45	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:B:654:VAL:C	1:B:657:VAL:HG23	2.32	0.50
1:B:717:MET:CE	1:B:830:PRO:HD2	2.41	0.50
2:D:253:ILE:HD13	2:D:319:THR:HB	1.93	0.50
2:L:253:ILE:HD13	2:L:319:THR:HB	1.93	0.50
2:O:125:LYS:C	2:O:127:ILE:H	2.15	0.50
1:A:214:ASP:O	1:A:215:GLU:C	2.49	0.50
1:A:745:ALA:HA	1:A:748:THR:HB	1.94	0.50
1:B:122:LEU:HD11	1:B:200:VAL:CG1	2.41	0.50
1:B:548:ARG:O	1:B:551:ALA:HB3	2.12	0.50
1:B:596:SER:O	1:B:599:THR:HB	2.12	0.50
1:B:845:ASN:HB3	1:B:848:PHE:HE1	1.77	0.50
2:E:8:SER:C	2:E:10:THR:N	2.64	0.50
2:I:54:LEU:HD12	2:I:55:PRO:CD	2.42	0.50
2:K:12:LYS:O	2:K:14:ALA:N	2.45	0.50
2:L:360:VAL:O	2:L:378:ARG:HD3	2.11	0.50
2:N:9:LYS:O	2:N:13:ASP:HB2	2.11	0.50
2:N:150:PHE:N	2:N:150:PHE:CD1	2.80	0.50
2:N:253:ILE:HD13	2:N:319:THR:HB	1.93	0.50
2:O:100:MET:HG3	2:O:388:VAL:CG1	2.41	0.50
1:A:271:PHE:O	1:A:274:ILE:HD12	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:510:LEU:HD22	1:A:540:LEU:HD13	1.94	0.50
1:A:694:ARG:HD2	1:A:828:GLN:CG	2.41	0.50
1:B:166:PHE:HE2	1:B:692:ILE:HD12	1.76	0.50
1:B:180:TYR:CE2	1:B:850:VAL:CG2	2.86	0.50
1:B:194:ARG:HA	1:B:194:ARG:HH11	1.77	0.50
2:C:12:LYS:O	2:C:14:ALA:N	2.44	0.50
2:D:360:VAL:O	2:D:378:ARG:HD3	2.11	0.50
2:E:4:LEU:O	2:E:5:TYR:C	2.48	0.50
2:F:4:LEU:O	2:F:5:TYR:C	2.49	0.50
2:F:152:PHE:N	2:F:152:PHE:CD1	2.80	0.50
2:G:150:PHE:N	2:G:150:PHE:CD1	2.78	0.50
2:H:69:THR:O	2:H:70:LEU:CB	2.52	0.50
2:H:253:ILE:HD13	2:H:319:THR:HB	1.93	0.50
2:I:152:PHE:N	2:I:152:PHE:CD1	2.80	0.50
1:A:369:GLY:O	1:A:370:ILE:C	2.49	0.50
1:A:434:THR:CG2	1:A:434:THR:O	2.59	0.50
1:A:434:THR:C	1:A:438:PRO:HG3	2.32	0.50
1:A:510:LEU:HD11	1:A:537:SER:CB	2.42	0.50
1:B:305:GLN:OE1	1:B:305:GLN:HA	2.12	0.50
1:B:771:VAL:CG2	1:B:809:PHE:O	2.59	0.50
2:D:12:LYS:O	2:D:14:ALA:N	2.45	0.50
2:O:12:LYS:O	2:O:14:ALA:N	2.45	0.50
2:O:253:ILE:HD13	2:O:319:THR:HB	1.93	0.50
1:A:348:LYS:O	1:A:351:GLN:HB2	2.12	0.50
1:A:391:THR:O	1:A:573:THR:HA	2.12	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:A:661:GLN:HE21	1:B:348:LYS:HZ1	1.59	0.50
1:A:744:TYR:C	1:A:746:GLN:N	2.64	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
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:H:360:VAL:O	2:H:378:ARG:HD3	2.11	0.50
2:I:76:ASN:HB2	2:M:76:ASN:HB3	1.93	0.50
2:M:253:ILE:HD13	2:M:319:THR:HB	1.93	0.50
2:N:4:LEU:O	2:N:5:TYR:C	2.48	0.50
1:A:178:PRO:CD	1:A:256:PHE:HE2	2.24	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:390:ARG:HG3	1:A:391:THR:N	2.27	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:A:763:LEU:HD23	1:A:764:PRO:CD	2.42	0.49
1:B:305:GLN:CG	1:B:564:ASN:HD21	2.25	0.49
1:B:371:ASN:HD22	1:B:583:SER:CB	2.19	0.49
1:B:462:GLN:O	2:H:64:GLY:HA2	2.10	0.49
1:B:702:GLY:O	1:B:825:VAL:HG13	2.12	0.49
1:B:708:ARG:O	1:B:709:ASP:C	2.49	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
2:N:360:VAL:O	2:N:378:ARG:HD3	2.11	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
1:A:659:ASP:O	1:A:660:ASP:O	2.30	0.49
1:A:817:TRP:CZ3	1:A:819:PRO:HA	2.47	0.49
1:B:602:HIS:O	1:B:606:VAL:HG22	2.12	0.49
1:B:875:ARG:CD	1:B:878:ASN:ND2	2.75	0.49
2:E:360:VAL:O	2:E:378:ARG:HD3	2.11	0.49
2:I:8:SER:C	2:I:10:THR:N	2.65	0.49
2:K:150:PHE:N	2:K:150:PHE:CD1	2.80	0.49
2:L:14:ALA:C	2:L:16:ASP:H	2.15	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
1:B:384:ALA:O	1:B:385:ALA:C	2.48	0.49
1:B:835:PHE:O	1:B:836:ARG:C	2.50	0.49
2:C:14:ALA:C	2:C:16:ASP:H	2.16	0.49
2:C:253:ILE:HD13	2:C:319:THR:HB	1.93	0.49
2:F:8:SER:C	2:F:10:THR:N	2.65	0.49
2:G:8:SER:C	2:G:10:THR:N	2.65	0.49
2:J:12:LYS:O	2:J:14:ALA:N	2.45	0.49
2:M:12:LYS:O	2:M:14:ALA:N	2.45	0.49
2:N:148:THR:OG1	2:N:332:GLU:HG2	2.11	0.49
2:O:65:LEU:O	2:O:66:LEU:HD23	2.12	0.49
1:A:410:LEU:O	1:A:413:VAL:N	2.45	0.49
1:B:108:LEU:C	1:B:110:ASP:N	2.66	0.49
1:B:190:ASN:CG	1:B:190:ASN:O	2.48	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
2:E:155:PRO:O	2:E:186:SER:HB3	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:253:ILE:HD13	2:F:319:THR:HB	1.93	0.49
2:J:148:THR:OG1	2:J:332:GLU:HG2	2.12	0.49
2:K:155:PRO:O	2:K:186:SER:HB3	2.12	0.49
2:L:152:PHE:N	2:L:152:PHE:CD1	2.80	0.49
1:A:197:GLY:O	1:A:198:LYS:O	2.29	0.49
1:A:542:GLN:O	1:A:545:ASP:HB2	2.12	0.49
1:A:601:PHE:CD1	1:A:601:PHE:N	2.80	0.49
1:A:814:ASN:O	1:A:815:TYR:C	2.50	0.49
1:B:94:THR:O	1:B:94:THR:HG22	2.12	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
2:C:8:SER:C	2:C:10:THR:N	2.65	0.49
2:H:155:PRO:O	2:H:186:SER:HB3	2.12	0.49
2:L:155:PRO:O	2:L:186:SER:HB3	2.13	0.49
2:O:360:VAL:O	2:O:378:ARG:HD3	2.11	0.49
1:A:237:ASN:OD1	1:A:237:ASN:O	2.29	0.49
1:A:263[B]:GLU:HB3	1:A:264:PRO:CD	2.42	0.49
1:A:513:LEU:O	1:A:516:GLN:OE1	2.30	0.49
1:A:804:SER:HB2	1:A:810:TYR:CB	2.43	0.49
1:B:383:ILE:HD11	1:B:550:LEU:HD22	1.94	0.49
1:B:409:TRP:CH2	1:B:413:VAL:HG21	2.48	0.49
1:B:458:ILE:C	1:B:458:ILE:HD12	2.33	0.49
1:B:477:ASN:ND2	2:I:39:ILE:HG23	2.18	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
2:G:1:MET:O	2:G:2:ASP:C	2.51	0.49
2:H:41:MET:O	2:H:42:ASN:C	2.51	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
2:O:53:ASN:HD22	2:O:354:ALA:HB3	1.76	0.49
1:A:147:TYR:N	1:A:147:TYR:CD1	2.81	0.49
1:A:179:ASP:HA	1:A:677:ARG:NH2	2.27	0.49
1:A:329:ALA:O	1:A:333:VAL:HG23	2.13	0.49
1:A:434:THR:O	1:A:434:THR:HG22	2.13	0.49
1:A:790:ARG:NH2	1:B:287:ASN:HB3	2.28	0.49
1:B:510:LEU:HD11	1:B:537:SER:HA	1.95	0.49
1:B:707:TYR:N	1:B:707:TYR:CD1	2.80	0.49
1:B:752:LEU:C	1:B:754:ASN:H	2.16	0.49
2:G:124:PHE:O	2:G:127:ILE:HG13	2.13	0.49
2:H:78:VAL:O	2:H:81:ALA:N	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:145:ARG:HD2	2:L:143:ASN:N	2.28	0.49
2:O:8:SER:C	2:O:10:THR:N	2.64	0.49
1:A:311:HIS:HA	1:A:318:TRP:CD1	2.48	0.49
1:A:454:THR:HB	1:A:457:GLN:OE1	2.12	0.49
1:A:817:TRP:O	1:A:818:VAL:CG2	2.60	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
2:G:8:SER:O	2:G:10:THR:N	2.46	0.49
2:H:24:TYR:C	2:H:26:ASN:H	2.16	0.49
2:K:78:VAL:O	2:K:81:ALA:N	2.41	0.49
2:O:4:LEU:O	2:O:5:TYR:C	2.50	0.49
1:A:499:ASP:N	1:A:505:GLN:HE21	2.10	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:B:92:GLN:HA	1:B:95:ILE:HD12	1.95	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:D:8:SER:O	2:D:10:THR:N	2.46	0.49
2:D:148:THR:OG1	2:D:332:GLU:HG2	2.11	0.49
2:E:41:MET:O	2:E:42:ASN:C	2.51	0.49
2:E:141:LEU:O	2:E:146:GLN:HB2	2.13	0.49
2:G:253:ILE:HD13	2:G:319:THR:HB	1.93	0.49
2:I:14:ALA:C	2:I:16:ASP:H	2.15	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: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:N:155:PRO:O	2:N:186:SER:HB3	2.12	0.49
1:A:434:THR:CA	1:A:438:PRO:HG3	2.43	0.49
1:B:298:TYR:CD1	1:B:298:TYR:C	2.86	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
2:E:8:SER:O	2:E:10:THR:N	2.46	0.49
2:F:54:LEU:HD12	2:F:55:PRO:CD	2.42	0.49
2:F:78:VAL:O	2:F:81:ALA:N	2.42	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:L:4:LEU:O	2:L:5:TYR:C	2.49	0.49
2:N:8:SER:O	2:N:10:THR:N	2.46	0.49
1:A:652:PHE:N	1:A:652:PHE:CD1	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:192:ASN:O	1:B:193:SER:CB	2.60	0.48
1:B:481:ARG:CZ	1:B:496:ASN:ND2	2.76	0.48
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
2:C:155:PRO:O	2:C:186:SER:HB3	2.13	0.48
2:H:148:THR:OG1	2:H:332:GLU:HG2	2.12	0.48
2:J:124:PHE:O	2:J:127:ILE:HG13	2.13	0.48
2:K:141:LEU:O	2:K:146:GLN:HB2	2.13	0.48
1:A:304:LEU:H	1:A:615:ASN:ND2	2.11	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:480:PHE:O	1:B:482:GLN:N	2.46	0.48
1:B:757:VAL:HG12	1:B:758:ALA:N	2.28	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
1:B:399:THR:O	1:B:401:TYR:N	2.45	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
2:J:23:LEU:HD22	2:J:25:SER:OG	2.09	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
1:A:404:LEU:O	1:A:405:ILE:C	2.50	0.48
1:A:807:ASN:C	1:A:809:PHE:N	2.66	0.48
1:B:436:ILE:HG13	1:B:437:TYR:N	2.25	0.48
1:B:801:LYS:O	1:B:801:LYS:HG2	2.13	0.48
2:I:155:PRO:O	2:I:186:SER:HB3	2.13	0.48
2:O:6:SER:O	2:O:8:SER:N	2.47	0.48
1:A:158:GLY:N	1:A:762:ALA:HB3	2.17	0.48
1:A:338:GLU:HG3	1:A:338:GLU:O	2.13	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:122:LEU:HG	1:B:201:ASP:CB	2.44	0.48
1:B:418:MET:O	1:B:419:PHE:CD1	2.61	0.48
1:B:484:VAL:CG1	2:I:69:THR:OG1	2.61	0.48
1:B:504:ASN:O	1:B:505:GLN:C	2.51	0.48
1:B:803:ASN:H	1:B:807:ASN:ND2	2.11	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
2:M:8:SER:O	2:M:10:THR:N	2.46	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:744:TYR:C	1:A:746:GLN:H	2.16	0.48
1:A:785:GLN:O	1:A:787:VAL:N	2.46	0.48
1:A:847:THR:O	1:A:847:THR:HG22	2.12	0.48
1:A:876:ILE:O	1:A:877:MET:CB	2.61	0.48
2:H:141:LEU:O	2:H:146:GLN:HB2	2.13	0.48
2:L:346:VAL:CG2	2:L:385:VAL:HG13	2.44	0.48
2:M:124:PHE:O	2:M:127:ILE:HG13	2.13	0.48
2:O:135:TYR:OH	2:O:340:GLU:OE1	2.30	0.48
1:A:238:VAL:HG12	1:A:239:VAL:N	2.29	0.48
1:A:524:ASP:C	1:A:526:LYS:N	2.66	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:A:822:THR:O	1:A:823:THR:HG23	2.14	0.48
1:B:450:GLY:O	1:B:451:ASP:HB2	2.12	0.48
1:B:570:THR:HG22	1:B:571:LEU:N	2.29	0.48
1:B:577:GLN:O	1:B:579:THR:N	2.46	0.48
1:B:630:ARG:HB2	2:L:71:LEU:CB	2.36	0.48
1:B:829:VAL:HG12	1:B:830:PRO:O	2.14	0.48
2:F:14:ALA:C	2:F:16:ASP:H	2.15	0.48
2:N:14:ALA:C	2:N:16:ASP:H	2.16	0.48
2:O:152:PHE:CD1	2:O:152:PHE:N	2.81	0.48
1:A:289:ASP:C	1:A:290:ARG:HG2	2.33	0.48
1:A:503:ILE:O	1:A:505:GLN:N	2.46	0.48
1:B:190:ASN:HB2	1:B:199:VAL:HG23	1.96	0.48
1:B:244:ILE:HD12	1:B:838:SER:C	2.33	0.48
1:B:258:GLN:HG3	2:N:70:LEU:HA	1.95	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
2:G:61:PHE:N	2:G:61:PHE:CD1	2.82	0.48
2:K:41:MET:O	2:K:42:ASN:C	2.51	0.48
2:M:37:MET:O	2:M:38:ILE:C	2.52	0.48
2:O:1:MET:O	2:O:2:ASP:C	2.52	0.48
1:A:111:ILE:O	1:A:113:PRO:HD3	2.14	0.48
1:A:745:ALA:HA	1:A:748:THR:CB	2.44	0.48
1:A:802:ILE:HA	1:A:807:ASN:HD21	1.77	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:D:37:MET:O	2:D:38:ILE:C	2.52	0.48
2:D:61:PHE:N	2:D:61:PHE:CD1	2.82	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:155:PRO:O	2:F:186:SER:HB3	2.13	0.48
2:H:99:GLU:HG3	2:H:99:GLU:O	2.14	0.48
2:H:150:PHE:N	2:H:150:PHE:CD1	2.80	0.48
2:J:8:SER:C	2:J:10:THR:N	2.65	0.48
2:N:6:SER:O	2:N:8:SER:N	2.47	0.48
1:A:122:LEU:HD11	1:A:200:VAL:CG1	2.32	0.48
1:A:125:ILE:HB	1:A:126:PHE:CD2	2.49	0.48
1:A:142:LEU:O	1:A:143:ARG:HG2	2.13	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:B:583:SER:O	1:B:584:LEU:C	2.52	0.48
1:B:638:MET:CE	1:B:666:ARG:NH1	2.77	0.48
2:D:110:ALA:HB1	2:D:111:PRO:CD	2.44	0.48
2:E:6:SER:O	2:E:8:SER:N	2.47	0.48
2:I:153:HIS:NE2	2:J:153:HIS:NE2	2.62	0.48
2:K:6:SER:O	2:K:8:SER:N	2.47	0.48
2:M:14:ALA:C	2:M:16:ASP:H	2.17	0.48
2:N:99:GLU:HG3	2:N:99:GLU:O	2.14	0.48
2:N:139:TRP:CD1	2:N:139:TRP:C	2.88	0.48
2:N:346:VAL:CG2	2:N:385:VAL:HG13	2.44	0.48
2:O:14:ALA:C	2:O:16:ASP:H	2.16	0.48
2:O:23:LEU:HD23	2:O:24:TYR:CA	2.44	0.48
1:A:170:TYR:CE1	1:A:682:PHE:HB2	2.49	0.47
1:A:328:LEU:HD11	1:A:606:VAL:HG21	1.96	0.47
1:A:436:ILE:O	1:A:440:PHE:CB	2.61	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
1:A:784:ALA:O	1:A:785:GLN:C	2.51	0.47
1:B:199:VAL:HG12	1:B:200:VAL:H	1.74	0.47
1:B:498:ARG:HD3	2:I:32:GLN:HE21	1.79	0.47
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
2:C:37:MET:O	2:C:38:ILE:C	2.53	0.47
2:E:32:GLN:O	2:E:33:GLN:C	2.53	0.47
2:E:346:VAL:CG2	2:E:385:VAL:HG13	2.44	0.47
2:I:8:SER:O	2:I:10:THR:N	2.47	0.47
2:L:78:VAL:O	2:L:81:ALA:N	2.42	0.47
1:A:101:LYS:O	1:A:102:GLU:HB2	2.15	0.47
1:A:262:VAL:HG12	1:A:297:ARG:HB3	1.95	0.47
1:A:466:PHE:O	1:A:467:GLN:C	2.52	0.47
1:A:568:VAL:CG1	1:A:569:GLN:H	2.02	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:746:GLN:O	1:A:750:MET:HG3	2.13	0.47
1:A:839:MET:HE3	1:A:840:HIS:C	2.35	0.47
1:B:246:HIS:CG	1:B:247:PRO:HD2	2.49	0.47
1:B:466:PHE:CD1	2:H:80:THR:CG2	2.68	0.47
2:C:123:LYS:HG3	2:C:124:PHE:CD1	2.50	0.47
2:C:153:HIS:NE2	2:D:153:HIS:NE2	2.62	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
2:G:139:TRP:C	2:G:139:TRP:CD1	2.88	0.47
2:J:37:MET:O	2:J:38:ILE:C	2.52	0.47
1:A:260:GLN:O	1:A:262:VAL:N	2.40	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
1:B:298:TYR:CD1	1:B:299:ILE:N	2.79	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
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
2:J:139:TRP:C	2:J:139:TRP:CD1	2.88	0.47
2:L:8:SER:O	2:L:10:THR:N	2.47	0.47
2:M:105:GLN:NE2	2:M:359:PRO:O	2.47	0.47
1:A:188:VAL:CG1	1:A:189:GLU:H	2.25	0.47
1:A:326:TYR:HD1	1:A:384:ALA:HB1	1.76	0.47
1:B:137:ASN:CG	1:B:137:ASN:O	2.52	0.47
1:B:497:ILE:HD12	2:I:32:GLN:HG2	1.95	0.47
1:B:636:LYS:O	1:B:637:LYS:CB	2.62	0.47
1:B:674:VAL:HB	1:B:679:LEU:HB2	1.96	0.47
2:D:346:VAL:CG2	2:D:385:VAL:HG13	2.44	0.47
2:E:57:ARG:NH1	2:E:94:ASN:HD21	2.07	0.47
2:F:32:GLN:O	2:F:33:GLN:C	2.53	0.47
2:F:123:LYS:HG3	2:F:124:PHE:CD1	2.50	0.47
2:F:153:HIS:NE2	2:G:153:HIS:NE2	2.62	0.47
2:H:139:TRP:CD1	2:H:139:TRP:C	2.88	0.47
2:J:105:GLN:NE2	2:J:359:PRO:O	2.47	0.47
2:J:110:ALA:HB1	2:J:111:PRO:CD	2.44	0.47
2:K:139:TRP:CD1	2:K:139:TRP:C	2.88	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
2:M:61:PHE:N	2:M:61:PHE:CD1	2.82	0.47
2:M:110:ALA:HB1	2:M:111:PRO:CD	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:54:LEU:HD12	2:N:55:PRO:CD	2.44	0.47
1:A:295:THR:HG22	1:A:295:THR:O	2.14	0.47
1:A:414:VAL:HB	1:A:419:PHE:HE1	1.79	0.47
1:A:841:MET:O	1:A:842:LEU:HD23	2.13	0.47
1:A:871:PHE:O	1:A:871:PHE:CD1	2.67	0.47
1:B:590:ASN:N	1:B:590:ASN:ND2	2.51	0.47
1:B:601:PHE:O	1:B:602:HIS:C	2.53	0.47
1:B:876:ILE:HG13	1:B:877:MET:HB2	1.96	0.47
2:D:14:ALA:C	2:D:16:ASP:H	2.17	0.47
2:E:60:ASN:C	2:E:61:PHE:CD1	2.88	0.47
2:E:99:GLU:HG3	2:E:99:GLU:O	2.14	0.47
2:E:139:TRP:CD1	2:E:139:TRP:C	2.87	0.47
2:F:34:PHE:O	2:F:37:MET:HB3	2.15	0.47
2:G:111:PRO:HB3	2:G:116:LEU:HG	1.97	0.47
2:I:75:ALA:HB3	2:M:76:ASN:CA	2.35	0.47
2:J:14:ALA:C	2:J:16:ASP:H	2.17	0.47
2:J:35:ASN:O	2:J:36:GLN:C	2.53	0.47
2:M:111:PRO:HB3	2:M:116:LEU:HG	1.97	0.47
2:N:57:ARG:NH1	2:N:94:ASN:HD21	2.07	0.47
1:A:126:PHE:HB3	1:A:150:LEU:HD23	1.95	0.47
1:A:427:CYS:O	1:A:431:ILE:HG13	2.14	0.47
1:A:706:ALA:O	1:A:708:ARG:N	2.42	0.47
1:B:89:GLU:O	1:B:92:GLN:N	2.48	0.47
1:B:383:ILE:HD11	1:B:550:LEU:CD2	2.44	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:583:SER:OG	1:B:584:LEU:N	2.47	0.47
1:B:703:VAL:HG13	1:B:824:LYS:O	2.15	0.47
1:B:772:ILE:CG2	1:B:773:SER:H	2.26	0.47
2:D:105:GLN:NE2	2:D:359:PRO:O	2.47	0.47
2:E:24:TYR:C	2:E:26:ASN:H	2.16	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:H:32:GLN:O	2:H:33:GLN:C	2.53	0.47
2:H:37:MET:O	2:H:38:ILE:C	2.53	0.47
2:J:6:SER:O	2:J:8:SER:N	2.48	0.47
2:L:100:MET:HG3	2:L:388:VAL:HG11	1.97	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:200:VAL:CG2	1:A:241:TYR:HB3	2.44	0.47
1:A:259:HIS:O	1:A:260:GLN:C	2.53	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:695:ALA:O	1:A:696:SER:HB3	2.13	0.47
1:A:713:GLU:O	1:A:720:TYR:CB	2.63	0.47
1:A:742:GLY:O	1:A:743:ASP:O	2.33	0.47
1:A:822:THR:O	1:A:823:THR:OG1	2.21	0.47
1:B:111:ILE:HG22	1:B:113:PRO:CG	2.45	0.47
1:B:658:PRO:HB2	1:B:661:GLN:CG	2.42	0.47
1:B:717:MET:HE1	1:B:830:PRO:CD	2.44	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
2:C:100:MET:HG3	2:C:388:VAL:HG11	1.97	0.47
2:D:78:VAL:O	2:D:81:ALA:N	2.41	0.47
2:D:139:TRP:C	2:D:139:TRP:CD1	2.88	0.47
2:E:74:ASP:OD2	2:E:76:ASN:HB3	2.15	0.47
2:F:100:MET:HG3	2:F:388:VAL:HG11	1.97	0.47
2:G:14:ALA:C	2:G:16:ASP:H	2.17	0.47
2:G:78:VAL:O	2:G:81:ALA:N	2.41	0.47
2:J:111:PRO:HB3	2:J:116:LEU:HG	1.97	0.47
2:J:150:PHE:O	2:J:330:VAL:HG13	2.15	0.47
2:M:32:GLN:O	2:M:33:GLN:C	2.53	0.47
2:M:35:ASN:O	2:M:36:GLN:C	2.53	0.47
2:M:139:TRP:CD1	2:M:139:TRP:C	2.88	0.47
2:N:60:ASN:C	2:N:61:PHE:CD1	2.88	0.47
1:A:181:LEU:HD23	1:A:257:LEU:CD2	2.45	0.47
1:A:199:VAL:CG1	1:A:200:VAL:N	2.68	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:B:127:GLU:OE1	1:B:151:LYS:HE2	2.15	0.47
1:B:275:PRO:HB2	1:B:278:ILE:CG1	2.40	0.47
1:B:281:ASP:O	1:B:282:VAL:C	2.53	0.47
1:B:434:THR:O	1:B:434:THR:CG2	2.57	0.47
2:C:142:GLN:C	2:N:145:ARG:HD3	2.34	0.47
2:G:150:PHE:O	2:G:330:VAL:HG13	2.15	0.47
2:H:14:ALA:C	2:H:16:ASP:H	2.16	0.47
2:J:3:VAL:O	2:J:4:LEU:C	2.53	0.47
2:L:123:LYS:HG3	2:L:124:PHE:CD1	2.50	0.47
2:M:346:VAL:CG2	2:M:385:VAL:HG13	2.44	0.47
2:O:74:ASP:OD2	2:O:76:ASN:HB3	2.15	0.47
2:O:78:VAL:O	2:O:81:ALA:N	2.42	0.47
2:O:153:HIS:NE2	2:O:154:LYS:HD3	2.29	0.47
2:O:153:HIS:O	2:O:154:LYS:C	2.52	0.47
1:A:155:LEU:HA	1:A:156:PRO:HD3	1.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:361:GLN:HB2	1:A:528:SER:CB	2.45	0.47
1:B:95:ILE:C	1:B:97:THR:H	2.18	0.47
1:B:203:GLU:O	1:B:207:ILE:HG13	2.14	0.47
1:B:710:MET:HE1	1:B:824:LYS:HD3	1.97	0.47
1:B:720:TYR:HB2	1:B:802:ILE:O	2.15	0.47
2:D:1:MET:O	2:D:2:ASP:C	2.51	0.47
2:D:75:ALA:HB3	2:L:76:ASN:HA	1.96	0.47
2:E:23:LEU:CD2	2:E:25:SER:H	2.28	0.47
2:E:100:MET:HG3	2:E:388:VAL:HG11	1.97	0.47
2:F:37:MET:O	2:F:38:ILE:C	2.53	0.47
2:G:346:VAL:CG2	2:G:385:VAL:HG13	2.44	0.47
2:H:74:ASP:OD2	2:J:76:ASN:CB	2.62	0.47
2:I:41:MET:O	2:I:42:ASN:C	2.54	0.47
2:I:100:MET:HG3	2:I:388:VAL:HG11	1.97	0.47
2:J:61:PHE:N	2:J:61:PHE:CD1	2.82	0.47
2:K:99:GLU:HG3	2:K:99:GLU:O	2.14	0.47
2:K:346:VAL:CG2	2:K:385:VAL:HG13	2.44	0.47
2:L:34:PHE:O	2:L:37:MET:HB3	2.15	0.47
2:M:150:PHE:O	2:M:330:VAL:HG13	2.15	0.47
2:N:32:GLN:O	2:N:33:GLN:C	2.53	0.47
2:O:346:VAL:CG2	2:O:385:VAL:HG13	2.44	0.47
1:A:122:LEU:HG	1:A:201:ASP:HB2	1.95	0.47
1:A:151:LYS:O	1:A:152:LYS:CB	2.63	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
1:A:298:TYR:O	1:A:299:ILE:O	2.33	0.47
1:A:494:ASN:CG	1:A:495:ASP:H	2.19	0.47
1:B:314:PHE:HD1	1:B:314:PHE:H	1.61	0.47
1:B:325:ASN:O	1:B:328:LEU:HB3	2.14	0.47
1:B:353:LEU:O	1:B:354:GLN:C	2.53	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:D:6:SER:O	2:D:8:SER:N	2.48	0.47
2:H:100:MET:HG3	2:H:388:VAL:HG11	1.97	0.47
2:H:346:VAL:CG2	2:H:385:VAL:HG13	2.44	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:I:32:GLN:O	2:I:33:GLN:C	2.53	0.47
2:J:73:LEU:N	2:J:73:LEU:HD23	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:23:LEU:CD2	2:K:25:SER:H	2.28	0.47
2:K:60:ASN:C	2:K:61:PHE:CD1	2.88	0.47
2:O:1:MET:HG3	2:O:2:ASP:N	2.29	0.47
2:O:153:HIS:O	2:O:337:ASP:HB2	2.15	0.47
1:A:111:ILE:O	1:A:111:ILE:CG2	2.63	0.46
1:A:413:VAL:O	1:A:414:VAL:C	2.53	0.46
1:A:492:VAL:CG1	1:A:558:MET:CE	2.93	0.46
1:A:707:TYR:CZ	1:A:754:ASN:HA	2.50	0.46
1:B:409:TRP:CZ3	1:B:413:VAL:HG23	2.50	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
1:B:641:ILE:H	1:B:641:ILE:HG13	1.38	0.46
1:B:727:LEU:O	1:B:728:ASP:HB3	2.16	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
2:D:111:PRO:HB3	2:D:116:LEU:HG	1.97	0.46
2:E:1:MET:O	2:E:2:ASP:C	2.53	0.46
2:F:139:TRP:CD1	2:F:139:TRP:C	2.88	0.46
2:J:32:GLN:O	2:J:33:GLN:C	2.53	0.46
2:L:3:VAL:O	2:L:4:LEU:C	2.53	0.46
2:N:1:MET:O	2:N:2:ASP:C	2.53	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:OE1	1:B:457:GLN:C	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
1:B:633:LEU:O	1:B:635:GLN:N	2.46	0.46
1:B:645:PHE:O	1:B:649:LEU:HG	2.14	0.46
2:E:5:TYR:HE2	2:E:131:ASN:HA	1.77	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
2:I:37:MET:O	2:I:38:ILE:C	2.52	0.46
2:I:123:LYS:HG3	2:I:124:PHE:CD1	2.50	0.46
2:K:54:LEU:HD12	2:K:55:PRO:CD	2.44	0.46
2:L:41:MET:O	2:L:42:ASN:C	2.53	0.46
1:A:100:PRO:HB2	1:A:103:SER:HB2	1.98	0.46
1:A:289:ASP:O	1:A:290:ARG:HD3	2.15	0.46
1:A:383:ILE:O	1:A:384:ALA:C	2.52	0.46
1:A:465:ASN:O	1:A:469:ALA:HB2	2.16	0.46
1:A:769:SER:O	1:A:770:SER:C	2.53	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:794:THR:O	1:A:794:THR:HG22	2.15	0.46
1:A:804:SER:HB2	1:A:810:TYR:HB2	1.97	0.46
1:B:180:TYR:CD1	1:B:181:LEU:N	2.81	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:B:785:GLN:O	1:B:787:VAL:N	2.49	0.46
1:B:857:PHE:N	1:B:857:PHE:CD1	2.83	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
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:N:35:ASN:O	2:N:36:GLN:C	2.54	0.46
1:A:141:GLU:O	1:A:142:LEU:CB	2.63	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
1:A:703:VAL:HG21	1:A:797:PRO:HB3	1.97	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:B:94:THR:HG23	1:B:658:PRO:HG3	1.98	0.46
1:B:190:ASN:O	1:B:192:ASN:N	2.48	0.46
1:B:800:TYR:O	1:B:802:ILE:N	2.48	0.46
2:G:34:PHE:O	2:G:37:MET:HB3	2.16	0.46
2:H:34:PHE:O	2:H:37:MET:HB3	2.16	0.46
2:I:34:PHE:O	2:I:37:MET:HB3	2.15	0.46
2:I:139:TRP:CD1	2:I:139:TRP:C	2.88	0.46
2:J:346:VAL:CG2	2:J:385:VAL:HG13	2.44	0.46
2:K:1:MET:O	2:K:2:ASP:C	2.53	0.46
2:K:5:TYR:HE2	2:K:131:ASN:HA	1.78	0.46
2:M:1:MET:O	2:M:2:ASP:C	2.51	0.46
2:O:123:LYS:HG3	2:O:124:PHE:CE1	2.50	0.46
1:A:612:SER:O	1:A:616:GLU:HB2	2.15	0.46
1:A:645:PHE:HD2	1:A:646:LEU:HD23	1.80	0.46
1:A:775:ILE:H	1:A:775:ILE:HG13	1.42	0.46
1:A:785:GLN:O	1:A:786:ILE:C	2.53	0.46
1:A:810:TYR:C	1:A:812:VAL:N	2.68	0.46
1:A:876:ILE:O	1:A:877:MET:HB2	2.16	0.46
1:B:93:LYS:O	1:B:656:ARG:HB3	2.15	0.46
1:B:270:ILE:HD11	1:B:292:LEU:HD11	1.97	0.46
1:B:345:GLN:HG3	1:B:349:MET:CE	2.46	0.46
1:B:360:ILE:N	1:B:360:ILE:HD12	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:D:73:LEU:HD23	2:D:73:LEU:N	2.31	0.46
2:G:74:ASP:OD2	2:G:76:ASN:HB3	2.16	0.46
2:G:239:THR:CG2	2:G:243:GLY:HA2	2.46	0.46
2:H:23:LEU:CD2	2:H:25:SER:H	2.28	0.46
2:J:54:LEU:HA	2:J:55:PRO:HD3	1.82	0.46
2:K:37:MET:O	2:K:38:ILE:C	2.53	0.46
2:L:6:SER:O	2:L:8:SER:N	2.49	0.46
1:A:421:ARG:HB3	1:B:523:VAL:HG21	1.96	0.46
1:B:159:ASP:OD2	1:B:761:GLY:CA	2.63	0.46
1:B:255:TYR:CA	2:N:69:THR:CG2	2.74	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
2:C:6:SER:O	2:C:8:SER:N	2.48	0.46
2:C:41:MET:O	2:C:42:ASN:C	2.54	0.46
2:F:3:VAL:O	2:F:4:LEU:C	2.53	0.46
2:F:38:ILE:O	2:F:42:ASN:ND2	2.49	0.46
2:H:74:ASP:OD2	2:H:76:ASN:HB3	2.15	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:34:PHE:O	2:M:37:MET:HB3	2.16	0.46
2:M:73:LEU:N	2:M:73:LEU:HD23	2.30	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:O:24:TYR:HB2	2:O:71:LEU:HD12	1.97	0.46
1:A:285:ILE:C	1:A:286:LEU:HD23	2.36	0.46
1:A:548:ARG:HH11	1:A:877:MET:N	2.13	0.46
1:B:117:LYS:HB2	1:B:179:ASP:CG	2.36	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
1:B:692:ILE:O	1:B:695:ALA:HB3	2.16	0.46
1:B:772:ILE:O	1:B:773:SER:C	2.54	0.46
1:B:836:ARG:H	1:B:836:ARG:HG2	1.59	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
2:D:34:PHE:O	2:D:37:MET:HB3	2.16	0.46
2:D:239:THR:CG2	2:D:243:GLY:HA2	2.46	0.46
2:E:61:PHE:CD1	2:E:61:PHE:N	2.84	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:105:GLN:NE2	2:G:359:PRO:O	2.47	0.46
2:I:99:GLU:HG3	2:I:99:GLU:O	2.16	0.46
2:K:100:MET:HG3	2:K:388:VAL:HG11	1.97	0.46
2:M:3:VAL:O	2:M:4:LEU:C	2.53	0.46
2:N:239:THR:CG2	2:N:243:GLY:HA2	2.46	0.46
2:O:32:GLN:O	2:O:33:GLN:C	2.53	0.46
2:O:106:ARG:HG2	2:O:107:ASN:H	1.80	0.46
1:A:277:ARG:HD3	1:A:559:ALA:HB2	1.96	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
1:B:543:LEU:O	1:B:544:VAL:C	2.53	0.46
2:C:99:GLU:HG3	2:C:99:GLU:O	2.16	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:L:139:TRP:CD1	2:L:139:TRP:C	2.88	0.46
1:A:154:THR:O	1:A:155:LEU:C	2.54	0.46
1:A:503:ILE:HG22	1:A:503:ILE:O	2.16	0.46
1:A:738:LEU:HD11	1:A:743:ASP:HB2	1.97	0.46
1:A:833:PHE:CZ	1:A:835:PHE:HD1	2.31	0.46
1:B:308:LEU:CB	1:B:310:LEU:HD21	2.44	0.46
1:B:453:GLN:OE1	1:B:453:GLN:N	2.48	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
1:B:654:VAL:HG12	1:B:655:ALA:H	1.81	0.46
1:B:854:LEU:O	1:B:855:LEU:C	2.54	0.46
2:E:135:TYR:CZ	2:E:342:MET:HE3	2.51	0.46
2:G:32:GLN:O	2:G:33:GLN:C	2.53	0.46
2:H:382:LEU:HD22	2:H:386:PHE:CE2	2.51	0.46
2:I:14:ALA:C	2:I:16:ASP:N	2.69	0.46
2:I:35:ASN:O	2:I:36:GLN:C	2.55	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
2:L:99:GLU:O	2:L:99:GLU:HG3	2.16	0.46
2:N:14:ALA:C	2:N:16:ASP:N	2.70	0.46
2:O:3:VAL:O	2:O:4:LEU:C	2.54	0.46
2:O:239:THR:CG2	2:O:243:GLY:HA2	2.46	0.46
1:A:205:ALA:O	1:A:206:SER:C	2.54	0.46
1:A:471:TRP:HD1	1:A:512:GLN:HE22	1.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:516:GLN:C	1:A:518:PHE:H	2.19	0.46
1:B:363:GLU:O	1:B:363:GLU:HG3	2.15	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
2:C:139:TRP:CD1	2:C:139:TRP:C	2.88	0.46
2:F:60:ASN:C	2:F:61:PHE:CD1	2.90	0.46
2:G:35:ASN:O	2:G:36:GLN:C	2.53	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: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:L:106:ARG:H	2:L:106:ARG:CD	2.12	0.46
2:L:239:THR:CG2	2:L:243:GLY:HA2	2.46	0.46
2:N:74:ASP:OD2	2:N:76:ASN:HB3	2.15	0.46
2:O:37:MET:O	2:O:38:ILE:C	2.53	0.46
1:A:120:THR:HA	1:A:186:MET:HE1	1.98	0.45
1:A:353:LEU:HD23	1:A:531:ARG:CB	2.43	0.45
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
1:A:701:GLN:CB	1:A:826:TYR:HD2	2.27	0.45
1:A:772:ILE:O	1:A:773:SER:C	2.53	0.45
1:B:169:LEU:HD12	1:B:169:LEU:HA	1.73	0.45
1:B:252:PHE:O	1:B:253:ASN:C	2.55	0.45
1:B:701:GLN:CD	1:B:701:GLN:N	2.70	0.45
1:B:771:VAL:CB	1:B:809:PHE:HB3	2.37	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:E:3:VAL:O	2:E:4:LEU:C	2.55	0.45
2:E:382:LEU:HD22	2:E:386:PHE:CE2	2.51	0.45
2:H:35:ASN:O	2:H:36:GLN:C	2.54	0.45
2:H:54:LEU:HD12	2:H:55:PRO:CD	2.44	0.45
2:J:71:LEU:O	2:J:72:ASN:O	2.35	0.45
2:J:74:ASP:OD2	2:J:76:ASN:HB3	2.16	0.45
2:K:14:ALA:C	2:K:16:ASP:N	2.70	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
1:A:757:VAL:CG1	1:A:758:ALA:N	2.75	0.45
1:B:178:PRO:CD	1:B:256:PHE:CE2	2.99	0.45
1:B:216:GLU:HG3	1:B:216:GLU:O	2.17	0.45
1:B:630:ARG:CB	2:L:71:LEU:CD1	2.78	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)
1:B:739:MET:CG	1:B:740:ARG:N	2.79	0.45
2:C:38:ILE:O	2:C:42:ASN:ND2	2.49	0.45
2:D:54:LEU:HA	2:D:55:PRO:HD3	1.82	0.45
2:D:74:ASP:OD2	2:D:76:ASN:HB3	2.16	0.45
2:E:239:THR:CG2	2:E:243:GLY:HA2	2.46	0.45
2:F:35:ASN:O	2:F:36:GLN:C	2.55	0.45
2:G:70:LEU:CG	2:G:71:LEU:N	2.79	0.45
2:G:225:LEU:HD13	2:G:277:PHE:HD2	1.82	0.45
2:H:190:VAL:HG21	2:H:210:HIS:HB2	1.99	0.45
2:I:38:ILE:O	2:I:42:ASN:ND2	2.49	0.45
2:J:225:LEU:HD13	2:J:277:PHE:HD2	1.81	0.45
2:K:61:PHE:CD1	2:K:61:PHE:N	2.84	0.45
2:K:382:LEU:HD22	2:K:386:PHE:CE2	2.51	0.45
2:O:34:PHE:O	2:O:37:MET:HB3	2.15	0.45
2:O:139:TRP:CD1	2:O:139:TRP:C	2.89	0.45
1:A:148:TRP:CH2	1:A:246:HIS:HB2	2.51	0.45
1:A:239:VAL:HG22	1:A:846:LEU:HG	1.98	0.45
1:A:385:ALA:O	1:A:389:GLN:N	2.47	0.45
1:A:601:PHE:O	1:A:602:HIS:C	2.55	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
1:A:772:ILE:HD11	1:A:809:PHE:CE2	2.51	0.45
1:A:779:ASP:CA	1:A:798:ILE:HD12	2.46	0.45
1:A:815:TYR:HD1	1:A:815:TYR:H	1.63	0.45
1:B:108:LEU:HD22	1:B:108:LEU:N	2.32	0.45
1:B:296:ALA:C	1:B:297:ARG:HG2	2.36	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:B:704:ILE:O	1:B:823:THR:HG23	2.16	0.45
2:C:346:VAL:CG2	2:C:385:VAL:HG13	2.44	0.45
2:D:32:GLN:O	2:D:33:GLN:C	2.53	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:I:346:VAL:CG2	2:I:385:VAL:HG13	2.44	0.45
2:K:225:LEU:HD13	2:K:277:PHE:HD2	1.82	0.45
2:N:3:VAL:O	2:N:4:LEU: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:O:53:ASN:O	2:O:55:PRO:HD3	2.17	0.45
1:A:355:LEU:O	1:A:356:GLU:HB2	2.15	0.45
1:A:539:ARG:CZ	1:A:586:MET:O	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:254:GLU:O	1:B:257:LEU:N	2.35	0.45
1:B:277:ARG:NH1	1:B:277:ARG:HB2	2.31	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
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
1:B:642:VAL:O	1:B:645:PHE:HB3	2.15	0.45
2:D:225:LEU:HD13	2:D:277:PHE:HD2	1.82	0.45
2:E:225:LEU:HD13	2:E:277:PHE:HD2	1.82	0.45
2:F:14:ALA:C	2:F:16:ASP:N	2.69	0.45
2:F:41:MET:O	2:F:42:ASN:C	2.54	0.45
2:G:73:LEU:HD23	2:G:73:LEU:N	2.31	0.45
2:H:3:VAL:O	2:H:4:LEU:C	2.55	0.45
2:J:6:SER:O	2:J:7:LEU:C	2.55	0.45
2:K:190:VAL:HG21	2:K:210:HIS:HB2	1.99	0.45
2:L:60:ASN:C	2:L:61:PHE:CD1	2.90	0.45
2:L:153:HIS:NE2	2:M:153:HIS:NE2	2.62	0.45
2:M:74:ASP:OD2	2:M:76:ASN:HB3	2.16	0.45
2:O:225:LEU:HD13	2:O:277:PHE:HD2	1.82	0.45
1:A:108:LEU:HD22	1:A:651:ILE:HD11	1.97	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
1:A:660:ASP:O	1:A:663:TYR:N	2.48	0.45
1:B:111:ILE:HG22	1:B:113:PRO:HD3	1.97	0.45
1:B:471:TRP:HD1	1:B:512:GLN:HE22	1.62	0.45
1:B:739:MET:HG2	1:B:740:ARG:N	2.31	0.45
1:B:791:LYS:HB3	1:B:792:VAL:H	1.65	0.45
2:C:239:THR:CG2	2:C:243:GLY:HA2	2.46	0.45
2:C:382:LEU:HD22	2:C:386:PHE:CE2	2.52	0.45
2:D:35:ASN:O	2:D:37:MET:N	2.50	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:I:75:ALA:N	2:M:76:ASN:OD1	2.50	0.45
2:K:34:PHE:O	2:K:37:MET:HB3	2.16	0.45
2:K:150:PHE:HB2	2:K:152:PHE:CZ	2.52	0.45
2:L:34:PHE:O	2:L:35:ASN:C	2.55	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:O:35:ASN:O	2:O:37:MET:N	2.50	0.45
1:A:204:THR:CG2	1:A:244:ILE:H	2.29	0.45
1:A:277:ARG:HD3	1:A:559:ALA:CB	2.46	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:666:ARG:CG	1:A:667:ASP:H	2.29	0.45
1:B:369:GLY:C	1:B:371:ASN:N	2.69	0.45
1:B:724:ALA:CB	1:B:824:LYS:HE3	2.41	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
2:E:37:MET:O	2:E:38:ILE:C	2.53	0.45
2:F:20:GLU:O	2:H:125:LYS:HG3	2.17	0.45
2:F:99:GLU:HG3	2:F:99:GLU:O	2.16	0.45
2:G:54:LEU:HA	2:G:55:PRO:HD3	1.82	0.45
2:G:73:LEU:HD13	2:G:77:TYR:HD2	1.82	0.45
2:J:239:THR:CG2	2:J:243:GLY:HA2	2.46	0.45
2:L:150:PHE:CD1	2:L:150:PHE:N	2.84	0.45
2:N:61:PHE:CD1	2:N:61:PHE:N	2.84	0.45
2:O:190:VAL:HG21	2:O:210:HIS:HB2	1.99	0.45
1:A:163:ARG:NH2	1:A:736:GLU:OE2	2.48	0.45
1:A:227:GLU:H	1:A:227:GLU:HG2	1.51	0.45
1:A:421:ARG:CG	1:B:523:VAL:CG2	2.69	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
1:A:620:ASP:O	1:A:624:ILE:HG13	2.17	0.45
1:A:698:LYS:H	1:A:765:PHE:HE2	1.62	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:853:ASP:O	1:A:854:LEU:CB	2.64	0.45
1:B:122:LEU:HD13	1:B:245:LEU:HD21	1.98	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
1:B:594:ILE:HB	1:B:595:PRO:CD	2.47	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
2:E:34:PHE:O	2:E:37:MET:HB3	2.16	0.45
2:E:190:VAL:HG21	2:E:210:HIS:HB2	1.99	0.45
2:G:71:LEU:O	2:G:72:ASN:O	2.34	0.45
2:J:382:LEU:HD22	2:J:386:PHE:CE2	2.52	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:K:35:ASN:O	2:K:36:GLN:C	2.54	0.45
2:L:35:ASN:O	2:L:37:MET:N	2.50	0.45
2:M:34:PHE:O	2:M:35:ASN:C	2.54	0.45
2:O:35:ASN:O	2:O:36:GLN:C	2.54	0.45
1:A:130:GLN:O	1:A:131:LEU:HB2	2.17	0.45
1:A:135:ARG:CZ	1:A:141:GLU:HG3	2.46	0.45
1:A:218:GLU:O	1:A:219:GLY:C	2.55	0.45
1:A:253:ASN:O	1:A:256:PHE:HB2	2.17	0.45
1:A:361:GLN:HG3	1:A:362:SER:N	2.19	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:170:TYR:HD1	1:B:685:ILE:CD1	2.29	0.45
1:B:400:ASN:ND2	1:B:403:SER:CB	2.78	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:C:60:ASN:C	2:C:61:PHE:CD1	2.90	0.45
2:F:34:PHE:O	2:F:35:ASN:C	2.55	0.45
2:F:150:PHE:N	2:F:150:PHE:CD1	2.84	0.45
2:H:239:THR:CG2	2:H:243:GLY:HA2	2.46	0.45
2:I:273:TYR:C	2:I:274:GLN:HE21	2.20	0.45
2:J:190:VAL:HG21	2:J:210:HIS:HB2	1.99	0.45
2:L:273:TYR:C	2:L:274:GLN:HE21	2.20	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
2:O:69:THR:O	2:O:70:LEU:C	2.55	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:193:SER:C	1:A:195:ASP:N	2.70	0.45
1:A:310:LEU:HD11	1:A:614:TYR:OH	2.17	0.45
1:A:428:GLN:CG	1:A:455:PRO:HB2	2.47	0.45
1:A:594:ILE:HA	1:A:595:PRO:HD3	1.85	0.45
1:A:835:PHE:O	1:A:836:ARG:C	2.53	0.45
1:B:258:GLN:HG3	2:N:70:LEU:H	1.82	0.45
1:B:382:LEU:HD12	1:B:382:LEU:HA	1.62	0.45
1:B:533:ILE:O	1:B:536:LEU:HB2	2.16	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:D:382:LEU:HD22	2:D:386:PHE:CE2	2.52	0.45
2:H:31:ILE:O	2:H:34:PHE:HB3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:225:LEU:HD13	2:H:277:PHE:HD2	1.82	0.45
2:H:312:GLN:HB3	2:H:313:PRO:HA	1.99	0.45
2:I:66:LEU:HD23	2:I:66:LEU:HA	1.81	0.45
2:I:150:PHE:N	2:I:150:PHE:CD1	2.85	0.45
2:J:70:LEU:CG	2:J:71:LEU:N	2.79	0.45
2:M:6:SER:O	2:M:7:LEU:C	2.55	0.45
2:N:76:ASN:CB	2:O:76:ASN:HB2	2.47	0.45
2:N:150:PHE:HB2	2:N:152:PHE:CZ	2.52	0.45
2:O:89:VAL:O	2:O:91:PHE:N	2.50	0.45
2:O:312:GLN:HB3	2:O:313:PRO:HA	1.99	0.45
1:A:353:LEU:O	1:A:354:GLN:HB2	2.17	0.45
1:A:413:VAL:HG12	1:A:414:VAL:N	2.32	0.45
1:A:487:GLY:O	1:A:488:VAL:HB	2.16	0.45
1:A:524:ASP:O	1:A:527:ARG:N	2.42	0.45
1:A:660:ASP:CB	1:B:539:ARG:HH11	2.28	0.45
1:A:774:LEU:O	1:A:777:LYS:N	2.45	0.45
1:B:275:PRO:HG2	1:B:278:ILE:HD11	1.99	0.45
1:B:482:GLN:HG3	1:B:482:GLN:O	2.17	0.45
1:B:527:ARG:HH12	1:B:531:ARG:HH21	1.65	0.45
1:B:594:ILE:HB	1:B:595:PRO:HD2	1.98	0.45
1:B:698:LYS:O	1:B:699:ILE:HG12	2.17	0.45
2:C:273:TYR:C	2:C:274:GLN:HE21	2.20	0.45
2:F:106:ARG:HD3	2:F:106:ARG:N	2.14	0.45
2:F:217:VAL:HG22	2:F:286:ASP:HB3	1.99	0.45
2:G:34:PHE:O	2:G:35:ASN:C	2.55	0.45
2:H:14:ALA:C	2:H:16:ASP:N	2.70	0.45
2:I:34:PHE:O	2:I:35:ASN:C	2.55	0.45
2:I:382:LEU:HD22	2:I:386:PHE:CE2	2.52	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:N:31:ILE:O	2:N:34:PHE:HB3	2.17	0.45
2:N:382:LEU:HD22	2:N:386:PHE:CE2	2.51	0.45
2:O:63:PHE:N	2:O:63:PHE:CD1	2.85	0.45
1:A:304:LEU:N	1:A:615:ASN:ND2	2.65	0.44
1:A:353:LEU:HD13	1:A:362:SER:HB2	1.96	0.44
1:A:596:SER:O	1:A:599:THR:HB	2.16	0.44
1:A:704:ILE:HG22	1:A:705:ILE:N	2.32	0.44
1:B:315:GLU:O	1:B:316:SER:C	2.56	0.44
1:B:508:GLU:O	1:B:512:GLN:CG	2.61	0.44
1:B:735:LEU:CD2	1:B:759:LEU:HB3	2.48	0.44
2:C:190:VAL:HG21	2:C:210:HIS:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:6:SER:O	2:D:7:LEU:C	2.55	0.44
2:D:70:LEU:CG	2:D:71:LEU:N	2.79	0.44
2:E:62:ASP:H	2:E:63:PHE:HD1	1.66	0.44
2:F:6:SER:O	2:F:7:LEU:C	2.55	0.44
2:K:3:VAL:O	2:K:4:LEU:C	2.55	0.44
2:L:136:ILE:HG23	2:L:137:GLU:N	2.33	0.44
2:M:190:VAL:HG21	2:M:210:HIS:HB2	1.99	0.44
2:N:225:LEU:HD13	2:N:277:PHE:HD2	1.82	0.44
2:O:10:THR:O	2:O:14:ALA:HB2	2.17	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
1:B:692:ILE:O	1:B:695:ALA:N	2.50	0.44
2:C:150:PHE:O	2:C:330:VAL:HG13	2.18	0.44
2:F:35:ASN:O	2:F:37:MET:N	2.50	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:K:312:GLN:HB3	2:K:313:PRO:HA	1.99	0.44
2:L:14:ALA:C	2:L:16:ASP:N	2.69	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
2:M:382:LEU:HD22	2:M:386:PHE:CE2	2.52	0.44
2:O:34:PHE:O	2:O:35:ASN:C	2.55	0.44
2:O:382:LEU:HD22	2:O:386:PHE:CE2	2.52	0.44
1:A:169:LEU:HD12	1:A:169:LEU:HA	1.65	0.44
1:A:286:LEU:N	1:A:286:LEU:CD2	2.78	0.44
1:A:401:TYR:CD1	1:A:401:TYR:N	2.84	0.44
1:A:688:ASN:O	1:A:691:GLN:N	2.49	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:B:305:GLN:HE21	1:B:564:ASN:CG	2.20	0.44
1:B:354:GLN:HA	1:B:354:GLN:OE1	2.17	0.44
1:B:402:MET:O	1:B:404:LEU:N	2.51	0.44
2:C:20:GLU:O	2:E:125:LYS:HG3	2.17	0.44
2:C:35:ASN:O	2:C:36:GLN:C	2.55	0.44
2:E:6:SER:O	2:E:7:LEU:C	2.55	0.44
2:F:312:GLN:HB3	2:F:313:PRO:HA	1.99	0.44
2:G:273:TYR:C	2:G:274:GLN:HE21	2.20	0.44
2:G:382:LEU:HD22	2:G:386:PHE:CE2	2.52	0.44
2:I:4:LEU:HA	2:I:7:LEU:CD1	2.48	0.44
2:I:35:ASN:O	2:I:37:MET:N	2.50	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: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
2:O:6:SER:O	2:O:7:LEU:C	2.55	0.44
1:A:420:ILE:HG13	1:A:421:ARG:N	2.30	0.44
1:A:580:SER:O	1:A:581:VAL:C	2.56	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
1:B:418:MET:O	1:B:418:MET:HG3	2.17	0.44
1:B:630:ARG:HB2	2:L:71:LEU:HD13	1.91	0.44
1:B:723:ILE:HG22	1:B:724:ALA:N	2.32	0.44
2:C:6:SER:O	2:C:7:LEU:C	2.55	0.44
2:C:144:ARG:HD2	2:D:82:ARG:CZ	2.48	0.44
2:D:73:LEU:HD13	2:D:77:TYR:CD2	2.53	0.44
2:D:217:VAL:HG22	2:D:286:ASP:HB3	1.99	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:F:106:ARG:H	2:F:106:ARG:CD	2.12	0.44
2:F:249:PHE:CE2	2:F:251:PRO:HG3	2.53	0.44
2:G:6:SER:O	2:G:7:LEU:C	2.55	0.44
2:G:35:ASN:O	2:G:37:MET:N	2.50	0.44
2:G:217:VAL:HG22	2:G:286:ASP:HB3	1.99	0.44
2:H:23:LEU:O	2:H:26:ASN:ND2	2.51	0.44
2:I:6:SER:O	2:I:7:LEU:C	2.55	0.44
2:I:20:GLU:O	2:K:125:LYS:HG3	2.17	0.44
2:J:35:ASN:O	2:J:37:MET:N	2.50	0.44
2:J:136:ILE:HG23	2:J:137:GLU:N	2.33	0.44
2:J:273:TYR:C	2:J:274:GLN:HE21	2.21	0.44
2:K:89:VAL:O	2:K:91:PHE:N	2.51	0.44
2:L:20:GLU:O	2:N:125:LYS:HG3	2.17	0.44
2:L:249:PHE:CE2	2:L:251:PRO:HG3	2.53	0.44
2:N:190:VAL:HG21	2:N:210:HIS:HB2	1.99	0.44
1:A:224:PHE:O	1:A:225:ILE:C	2.54	0.44
1:A:525:TYR:O	1:A:529:ILE:HG13	2.18	0.44
1:A:534:LEU:HA	1:A:537:SER:OG	2.18	0.44
1:A:609:ASN:O	1:A:610:PHE:C	2.55	0.44
1:B:300:ARG:HA	1:B:301:PRO:HD3	1.83	0.44
1:B:558:MET:O	1:B:559:ALA:C	2.55	0.44
1:B:745:ALA:HA	1:B:748:THR:OG1	2.18	0.44
2:C:22:THR:HB	2:E:128:ASN:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:89:VAL:O	2:C:91:PHE:N	2.51	0.44
2:F:31:ILE:O	2:F:34:PHE:HB3	2.18	0.44
2:F:48:THR:HG22	2:F:115:SER:OG	2.18	0.44
2:F:136:ILE:HG23	2:F:137:GLU:N	2.33	0.44
2:F:225:LEU:HD13	2:F:277:PHE:HD2	1.82	0.44
2:H:150:PHE:HB2	2:H:152:PHE:CZ	2.52	0.44
2:I:78:VAL:O	2:I:81:ALA:N	2.42	0.44
2:I:249:PHE:CE2	2:I:251:PRO:HG3	2.53	0.44
2:K:31:ILE:O	2:K:34:PHE:HB3	2.17	0.44
2:L:150:PHE:O	2:L:330:VAL:HG13	2.18	0.44
2:N:273:TYR:C	2:N:274:GLN:HE21	2.21	0.44
1:A:129:ARG:HG2	1:A:130:GLN:N	2.32	0.44
1:A:218:GLU:HB3	1:A:219:GLY:H	1.55	0.44
1:A:292:LEU:HA	1:A:293:PRO:HD3	1.85	0.44
1:A:305:GLN:N	1:A:305:GLN:CD	2.71	0.44
1:A:437:TYR:CB	1:A:438:PRO:CD	2.96	0.44
1:B:96:PRO:CG	1:B:657:VAL:HG22	2.48	0.44
1:B:183:LEU:O	1:B:186:MET:N	2.48	0.44
1:B:211:ILE:O	1:B:213:GLN:N	2.50	0.44
1:B:491:GLN:NE2	1:B:565:MET:N	2.53	0.44
1:B:608:VAL:O	1:B:609:ASN:C	2.56	0.44
1:B:675:GLU:O	1:B:677:ARG:N	2.50	0.44
1:B:744:TYR:O	1:B:745:ALA:HB3	2.18	0.44
2:C:35:ASN:O	2:C:37:MET:N	2.50	0.44
2:E:54:LEU:HD12	2:E:55:PRO:CD	2.44	0.44
2:E:249:PHE:CE2	2:E:251:PRO:HG3	2.53	0.44
2:I:217:VAL:HG22	2:I:286:ASP:HB3	2.00	0.44
2:I:227:PRO:HD3	2:I:277:PHE:CG	2.53	0.44
2:J:225:LEU:HD13	2:J:277:PHE:CD2	2.53	0.44
2:K:142:GLN:NE2	2:K:143:ASN:N	2.66	0.44
2:L:6:SER:O	2:L:7:LEU:C	2.55	0.44
2:L:48:THR:HG22	2:L:115:SER:OG	2.18	0.44
2:L:225:LEU:HD13	2:L:277:PHE:HD2	1.82	0.44
2:N:62:ASP:H	2:N:63:PHE:HD1	1.66	0.44
2:N:225:LEU:HD13	2:N:277:PHE:CD2	2.53	0.44
2:N:312:GLN:HB3	2:N:313:PRO:HA	1.99	0.44
1:A:571:LEU:HA	1:A:571:LEU:HD22	1.69	0.44
1:A:661:GLN:NE2	1:B:348:LYS:NZ	2.57	0.44
1:A:672:LEU:HA	1:A:673:PRO:HD3	1.81	0.44
1:A:770:SER:O	1:A:772:ILE:N	2.51	0.44
1:B:134:TYR:CD2	1:B:803:ASN:HB2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:138:GLY:O	1:B:804:SER:HB3	2.17	0.44
1:B:230:GLN:CD	1:B:230:GLN:H	2.21	0.44
1:B:339:LEU:CD2	1:B:588:ILE:HD13	2.47	0.44
1:B:380:LYS:O	1:B:381:THR:C	2.56	0.44
1:B:772:ILE:HB	1:B:809:PHE:HE2	1.83	0.44
2:C:34:PHE:O	2:C:35:ASN:C	2.55	0.44
2:C:225:LEU:HD13	2:C:277:PHE:HD2	1.82	0.44
2:D:225:LEU:HD13	2:D:277:PHE:CD2	2.53	0.44
2:E:227:PRO:HD3	2:E:277:PHE:CG	2.53	0.44
2:F:227:PRO:HD3	2:F:277:PHE:CG	2.53	0.44
2:G:227:PRO:HD3	2:G:277:PHE:CG	2.53	0.44
2:G:249:PHE:CE2	2:G:251:PRO:HG3	2.53	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
2:I:31:ILE:O	2:I:34:PHE:HB3	2.18	0.44
2:I:144:ARG:HD2	2:J:82:ARG:CZ	2.48	0.44
2:I:190:VAL:HG21	2:I:210:HIS:HB2	1.99	0.44
2:L:128:ASN:O	2:L:129:PHE:CB	2.66	0.44
2:L:144:ARG:HD2	2:M:82:ARG:CZ	2.48	0.44
2:M:35:ASN:O	2:M:37:MET:N	2.50	0.44
1:A:265:LEU:HB3	1:A:296:ALA:CB	2.48	0.44
1:A:876:ILE:HG22	1:A:877:MET:HG2	1.99	0.44
1:B:225:ILE:O	1:B:226:ALA:O	2.35	0.44
1:B:363:GLU:OE1	1:B:366:PHE:HB2	2.18	0.44
1:B:447:TYR:OH	1:B:458:ILE:HD11	2.18	0.44
2:C:225:LEU:HD13	2:C:277:PHE:CD2	2.53	0.44
2:D:97:MET:O	2:D:101:VAL:HG13	2.18	0.44
2:F:190:VAL:HG21	2:F:210:HIS:HB2	1.99	0.44
2:H:89:VAL:O	2:H:91:PHE:N	2.51	0.44
2:H:273:TYR:C	2:H:274:GLN:HE21	2.21	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:K:57:ARG:NH1	2:K:94:ASN:HD21	2.07	0.44
2:L:23:LEU:O	2:L:26:ASN:ND2	2.51	0.44
2:L:89:VAL:O	2:L:91:PHE:N	2.51	0.44
2:M:70:LEU:CG	2:M:71:LEU:N	2.79	0.44
1:A:118:LYS:CG	1:A:119:GLN:N	2.70	0.44
1:A:283:ASN:ND2	1:A:869:VAL:H	2.16	0.44
1:A:405:ILE:HA	1:A:408:MET:SD	2.58	0.44
1:A:421:ARG:C	1:A:423:SER:H	2.21	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:521:MET:CB	1:A:522:PRO:HD3	2.28	0.44
1:A:634:TYR:OH	1:A:736:GLU:OE2	2.33	0.44
1:B:118:LYS:CG	1:B:119:GLN:H	2.30	0.44
1:B:205:ALA:O	1:B:206:SER:C	2.56	0.44
1:B:275:PRO:HD2	1:B:278:ILE:CD1	2.47	0.44
1:B:275:PRO:C	1:B:277:ARG:H	2.21	0.44
1:B:536:LEU:N	1:B:536:LEU:CD2	2.80	0.44
1:B:670:ARG:O	2:L:68:THR:OG1	2.24	0.44
2:C:48:THR:HG22	2:C:115:SER:OG	2.18	0.44
2:D:124:PHE:CD1	2:D:124:PHE:N	2.86	0.44
2:D:312:GLN:HB3	2:D:313:PRO:HA	1.99	0.44
2:E:89:VAL:O	2:E:91:PHE:N	2.51	0.44
2:F:22:THR:HB	2:H:128:ASN:O	2.18	0.44
2:F:89:VAL:O	2:F:91:PHE:N	2.51	0.44
2:G:190:VAL:HG21	2:G:210:HIS:HB2	1.99	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: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:K:249:PHE:CE2	2:K:251:PRO:HG3	2.53	0.44
2:L:1:MET:O	2:L:2:ASP:C	2.56	0.44
2:L:31:ILE:O	2:L:34:PHE:HB3	2.18	0.44
2:M:71:LEU:O	2:M:72:ASN:O	2.34	0.44
1:A:765:PHE:CE1	1:A:767:THR:HG23	2.53	0.43
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
1:B:811:LEU:H	1:B:811:LEU:CD2	2.25	0.43
2:C:31:ILE:O	2:C:34:PHE:HB3	2.18	0.43
2:C:136:ILE:HG23	2:C:137:GLU:N	2.33	0.43
2:C:217:VAL:HG22	2:C:286:ASP:HB3	1.99	0.43
2:D:122:ILE:HG23	2:D:123:LYS:N	2.33	0.43
2:D:190:VAL:HG21	2:D:210:HIS:HB2	1.99	0.43
2:D:249:PHE:CE2	2:D:251:PRO:HG3	2.53	0.43
2:D:273:TYR:C	2:D:274:GLN:HE21	2.21	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:F:144:ARG:HD2	2:G:82:ARG:CZ	2.48	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
2:G:73:LEU:HD13	2:G:77:TYR:CD2	2.53	0.43
2:G:312:GLN:HB3	2:G:313:PRO:HA	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:35:ASN:O	2:H:37:MET:N	2.51	0.43
2:K:169:SER:HA	2:K:176:LEU:HD23	2.00	0.43
2:L:151:THR:C	2:L:152:PHE:CD1	2.92	0.43
2:M:169:SER:HA	2:M:176:LEU:HD23	2.00	0.43
2:M:273:TYR:C	2:M:274:GLN:HE21	2.21	0.43
2:N:122:ILE:HG23	2:N:123:LYS:N	2.33	0.43
2:N:169:SER:HA	2:N:176:LEU:HD23	2.00	0.43
2:N:249:PHE:CE2	2:N:251:PRO:HG3	2.53	0.43
2:O:141:LEU:HD12	2:O:148:THR:HG21	1.99	0.43
1:A:546:LEU:HD23	1:A:546:LEU:HA	1.82	0.43
1:A:552:TYR:O	1:A:553:ASN:C	2.57	0.43
1:A:593:VAL:HG12	1:A:594:ILE:N	2.33	0.43
1:A:707:TYR:H	1:A:707:TYR:HD1	1.65	0.43
1:A:821:SER:OG	1:A:822:THR:N	2.51	0.43
1:B:98:PHE:CE1	1:B:653:ASP:HB3	2.53	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:B:770:SER:O	1:B:773:SER:HB2	2.18	0.43
2:C:150:PHE:N	2:C:150:PHE:CD1	2.85	0.43
2:D:136:ILE:HG23	2:D:137:GLU:N	2.33	0.43
2:E:273:TYR:C	2:E:274:GLN:HE21	2.21	0.43
2:G:1:MET:C	2:G:3:VAL:N	2.70	0.43
2:H:227:PRO:HD3	2:H:277:PHE:CG	2.53	0.43
2:H:249:PHE:CE2	2:H:251:PRO:HG3	2.53	0.43
2:I:48:THR:HG22	2:I:115:SER:OG	2.18	0.43
2:I:150:PHE:O	2:I:330:VAL:HG13	2.18	0.43
2:I:225:LEU:HD13	2:I:277:PHE:HD2	1.82	0.43
2:K:227:PRO:HD3	2:K:277:PHE:CG	2.53	0.43
2:L:225:LEU:HD13	2:L:277:PHE:CD2	2.53	0.43
2:M:73:LEU:HD13	2:M:77:TYR:HD2	1.82	0.43
2:O:5:TYR:O	2:O:6:SER:C	2.57	0.43
2:O:31:ILE:O	2:O:34:PHE:HB3	2.18	0.43
2:O:99:GLU:O	2:O:99:GLU:HG3	2.18	0.43
2:O:227:PRO:HD3	2:O:277:PHE:CG	2.53	0.43
1:A:242:PRO:HA	1:A:841:MET:SD	2.58	0.43
1:A:271:PHE:CA	1:A:274:ILE:HD12	2.47	0.43
1:A:394:LEU:HD12	1:A:423:SER:OG	2.18	0.43
1:B:122:LEU:O	1:B:123:PHE:CB	2.65	0.43
1:B:204:THR:HG23	1:B:244:ILE:HG22	1.97	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:609:ASN:O	1:B:610:PHE:C	2.56	0.43
1:B:696:SER:O	1:B:827:LYS:HE3	2.18	0.43
2:C:145:ARG:HG2	2:N:145:ARG:CG	2.49	0.43
2:E:169:SER:HA	2:E:176:LEU:HD23	2.00	0.43
2:E:312:GLN:HB3	2:E:313:PRO:HA	1.99	0.43
2:F:273:TYR:C	2:F:274:GLN:HE21	2.20	0.43
2:H:62:ASP:H	2:H:63:PHE:HD1	1.66	0.43
2:J:97:MET:O	2:J:101:VAL:HG13	2.18	0.43
2:J:124:PHE:CD1	2:J:124:PHE:N	2.86	0.43
2:L:22:THR:HB	2:N:128:ASN:O	2.18	0.43
2:M:97:MET:O	2:M:101:VAL:HG13	2.18	0.43
2:M:312:GLN:HB3	2:M:313:PRO:HA	1.99	0.43
2:O:31:ILE:HG21	2:O:68:THR:HG22	2.00	0.43
2:O:169:SER:HA	2:O:176:LEU:HD23	2.00	0.43
2:O:273:TYR:C	2:O:274:GLN:HE21	2.21	0.43
1:A:246:HIS:O	1:A:247:PRO:C	2.56	0.43
1:A:252:PHE:O	1:A:253:ASN:C	2.57	0.43
1:A:309:ASN:HA	1:A:311:HIS:CE1	2.53	0.43
1:A:361:GLN:CB	1:A:528:SER:OG	2.65	0.43
1:A:469:ALA:HB1	2:G:71:LEU:CD1	2.48	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:B:639:LYS:O	1:B:640:ALA:C	2.56	0.43
1:B:671:LEU:O	1:B:672:LEU:HD23	2.19	0.43
1:B:786:ILE:CG2	1:B:792:VAL:HG12	2.46	0.43
2:C:2:ASP:O	2:C:5:TYR:HB3	2.18	0.43
2:C:128:ASN:O	2:C:129:PHE:CB	2.66	0.43
2:D:1:MET:O	2:D:4:LEU:N	2.51	0.43
2:D:66:LEU:HD23	2:D:66:LEU:HA	1.71	0.43
2:E:217:VAL:HG22	2:E:286:ASP:HB3	2.00	0.43
2:F:1:MET:O	2:F:4:LEU:HB3	2.18	0.43
2:F:169:SER:HA	2:F:176:LEU:HD23	2.00	0.43
2:G:10:THR:O	2:G:14:ALA:HB2	2.18	0.43
2:G:104:SER:O	2:G:108:GLY:HA3	2.18	0.43
2:G:225:LEU:HD13	2:G:277:PHE:CD2	2.53	0.43
2:H:5:TYR:O	2:H:6:SER:C	2.57	0.43
2:H:122:ILE:HG23	2:H:123:LYS:N	2.33	0.43
2:I:169:SER:HA	2:I:176:LEU:HD23	2.00	0.43
2:K:23:LEU:O	2:K:26:ASN:ND2	2.51	0.43
2:K:122:ILE:HG23	2:K:123:LYS:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:2:ASP:O	2:L:5:TYR:HB3	2.18	0.43
2:M:225:LEU:HD13	2:M:277:PHE:CD2	2.53	0.43
2:N:5:TYR:O	2:N:6:SER:C	2.57	0.43
2:N:227:PRO:HD3	2:N:277:PHE:CG	2.53	0.43
2:O:23:LEU:HD23	2:O:23:LEU:C	2.35	0.43
2:O:225:LEU:HD13	2:O:277:PHE:CD2	2.53	0.43
1:A:252:PHE:CD2	1:A:684:LEU:HD23	2.53	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:A:793:ASP:C	1:A:795:LEU:N	2.72	0.43
1:B:112:LYS:N	1:B:113:PRO:HD3	2.32	0.43
1:B:140:LYS:C	1:B:142:LEU:N	2.71	0.43
1:B:246:HIS:CD2	1:B:248:ILE:N	2.83	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:C:142:GLN:HE22	2:N:145:ARG:HH12	1.61	0.43
2:C:249:PHE:CE2	2:C:251:PRO:HG3	2.53	0.43
2:D:14:ALA:C	2:D:16:ASP:N	2.71	0.43
2:F:23:LEU:O	2:F:26:ASN:ND2	2.51	0.43
2:G:14:ALA:C	2:G:16:ASP:N	2.71	0.43
2:G:122:ILE:HG23	2:G:123:LYS:N	2.33	0.43
2:H:217:VAL:HG22	2:H:286:ASP:HB3	2.00	0.43
2:I:10:THR:O	2:I:14:ALA:HB2	2.19	0.43
2:I:89:VAL:O	2:I:91:PHE:N	2.51	0.43
2:I:163:SER:HB3	2:I:181:TRP:CZ2	2.54	0.43
2:J:10:THR:O	2:J:14:ALA:HB2	2.18	0.43
2:J:67:GLY:O	2:J:68:THR:CG2	2.66	0.43
2:J:73:LEU:HD13	2:J:77:TYR:HD2	1.82	0.43
2:J:249:PHE:CE2	2:J:251:PRO:HG3	2.53	0.43
2:K:106:ARG:HB3	2:K:107:ASN:H	1.63	0.43
2:M:217:VAL:HG22	2:M:286:ASP:HB3	1.99	0.43
2:N:23:LEU:O	2:N:26:ASN:ND2	2.51	0.43
2:O:217:VAL:HG22	2:O:286:ASP:HB3	1.99	0.43
1:A:239:VAL:CG2	1:A:846:LEU:HG	2.49	0.43
1:A:527:ARG:HH11	1:A:527:ARG:CG	2.28	0.43
1:A:563:MET:O	1:A:564:ASN:C	2.56	0.43
1:A:720:TYR:CE1	1:A:819:PRO:HG2	2.53	0.43
1:A:721:VAL:CG1	1:A:800:TYR:H	2.31	0.43
1:A:810:TYR:CD1	1:A:810:TYR:C	2.92	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:87:GLN:C	1:B:89:GLU:N	2.71	0.43
1:B:254:GLU:HB3	2:N:69:THR:HG1	1.82	0.43
1:B:292:LEU:HA	1:B:293:PRO:HD3	1.88	0.43
1:B:319:ASP:OD2	1:B:572:THR:N	2.52	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:552:TYR:O	1:B:553:ASN:C	2.57	0.43
1:B:665:LEU:HD12	1:B:665:LEU:HA	1.87	0.43
1:B:735:LEU:O	1:B:736:GLU:C	2.56	0.43
2:C:1:MET:O	2:C:2:ASP:C	2.56	0.43
2:C:10:THR:O	2:C:14:ALA:HB2	2.18	0.43
2:C:33:GLN:O	2:C:36:GLN:HB3	2.19	0.43
2:C:78:VAL:O	2:C:81:ALA:N	2.42	0.43
2:D:227:PRO:HD3	2:D:277:PHE:CG	2.53	0.43
2:E:150:PHE:HB2	2:E:152:PHE:CZ	2.52	0.43
2:F:10:THR:O	2:F:14:ALA:HB2	2.19	0.43
2:G:2:ASP:O	2:G:5:TYR:HB3	2.19	0.43
2:G:124:PHE:CD1	2:G:124:PHE:N	2.86	0.43
2:I:1:MET:O	2:I:4:LEU:HB3	2.18	0.43
2:J:1:MET:O	2:J:4:LEU:N	2.51	0.43
2:L:169:SER:HA	2:L:176:LEU:HD23	2.00	0.43
2:M:122:ILE:HG23	2:M:123:LYS:N	2.33	0.43
1:A:804:SER:O	1:A:810:TYR:HB3	2.18	0.43
1:B:260:GLN:O	1:B:261:LEU:C	2.56	0.43
1:B:402:MET:O	1:B:405:ILE:N	2.52	0.43
1:B:810:TYR:C	1:B:812:VAL:N	2.72	0.43
2:D:51:ILE:O	2:D:52:GLY:C	2.57	0.43
2:D:99:GLU:O	2:D:99:GLU:HG3	2.18	0.43
2:E:78:VAL:O	2:E:81:ALA:N	2.41	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
2:F:140:ASN:O	2:F:143:ASN:N	2.51	0.43
2:I:151:THR:C	2:I:152:PHE:CD1	2.92	0.43
2:I:225:LEU:HD13	2:I:277:PHE:CD2	2.53	0.43
2:J:78:VAL:O	2:J:81:ALA:N	2.41	0.43
2:K:35:ASN:O	2:K:37:MET:N	2.51	0.43
2:M:10:THR:O	2:M:14:ALA:HB2	2.18	0.43
2:M:89:VAL:O	2:M:91:PHE:N	2.52	0.43
2:M:99:GLU:HG3	2:M:99:GLU:O	2.19	0.43
2:M:104:SER:O	2:M:108:GLY:HA3	2.18	0.43
2:M:136:ILE:HG23	2:M:137:GLU:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:249:PHE:CE2	2:M:251:PRO:HG3	2.53	0.43
2:N:89:VAL:O	2:N:91:PHE:N	2.51	0.43
2:N:106:ARG:HB3	2:N:107:ASN:H	1.62	0.43
2:O:125:LYS:O	2:O:127:ILE:N	2.52	0.43
1:A:108:LEU:CD2	1:A:651:ILE:HD11	2.49	0.43
1:A:558:MET:O	1:A:559:ALA:C	2.57	0.43
1:B:96:PRO:HG2	1:B:657:VAL:HG22	2.00	0.43
1:B:305:GLN:HE21	1:B:564:ASN:ND2	2.17	0.43
1:B:332:VAL:O	1:B:333:VAL:C	2.57	0.43
1:B:340:VAL:HB	1:B:587:LEU:CD1	2.49	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
2:D:1:MET:C	2:D:3:VAL:N	2.70	0.43
2:D:169:SER:HA	2:D:176:LEU:HD23	2.00	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: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
2:L:2:ASP:O	2:L:3:VAL:C	2.58	0.43
2:M:5:TYR:O	2:M:6:SER:C	2.57	0.43
2:N:35:ASN:O	2:N:37:MET:N	2.51	0.43
1:A:215:GLU:CD	1:A:215:GLU:H	2.21	0.43
1:A:271:PHE:HA	1:A:274:ILE:CD1	2.47	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:102:GLU:O	1:B:104:ILE:N	2.52	0.43
1:B:134:TYR:CE2	1:B:803:ASN:CB	3.02	0.43
1:B:668:ARG:HH11	1:B:668:ARG:HG3	1.83	0.43
2:C:66:LEU:HD23	2:C:66:LEU:HA	1.81	0.43
2:C:151:THR:C	2:C:152:PHE:CD1	2.92	0.43
2:C:163:SER:HB3	2:C:181:TRP:CZ2	2.54	0.43
2:D:163:SER:HB3	2:D:181:TRP:CZ2	2.54	0.43
2:F:2:ASP:O	2:F:5:TYR:HB3	2.18	0.43
2:F:5:TYR:HE2	2:F:131:ASN:HA	1.84	0.43
2:F:128:ASN:O	2:F:129:PHE:CB	2.66	0.43
2:F:163:SER:HB3	2:F:181:TRP:CZ2	2.54	0.43
2:G:97:MET:O	2:G:101:VAL:HG13	2.18	0.43
2:G:136:ILE:HG23	2:G:137:GLU:N	2.33	0.43
2:G:163:SER:HB3	2:G:181:TRP:CZ2	2.54	0.43
2:H:34:PHE:O	2:H:35:ASN:C	2.57	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
2:J:1:MET:C	2:J:3:VAL:N	2.70	0.43
2:J:14:ALA:C	2:J:16:ASP:N	2.71	0.43
2:J:104:SER:O	2:J:108:GLY:HA3	2.18	0.43
2:J:169:SER:HA	2:J:176:LEU:HD23	2.00	0.43
2:K:34:PHE:O	2:K:35:ASN:C	2.57	0.43
2:K:163:SER:HB3	2:K:181:TRP:CZ2	2.54	0.43
2:L:1:MET:O	2:L:4:LEU:HB3	2.18	0.43
2:L:227:PRO:HD3	2:L:277:PHE:CG	2.53	0.43
2:M:1:MET:C	2:M:3:VAL:N	2.70	0.43
2:N:6:SER:O	2:N:7:LEU:C	2.55	0.43
2:N:108:GLY:HA3	2:N:381:ASN:ND2	2.34	0.43
2:O:4:LEU:HG	2:O:391:ILE:HG21	2.01	0.43
1:A:200:VAL:O	1:A:201:ASP:CB	2.67	0.43
1:A:304:LEU:H	1:A:615:ASN:HD21	1.67	0.43
1:A:340:VAL:O	1:A:587:LEU:HD21	2.19	0.43
1:A:353:LEU:O	1:A:354:GLN:CB	2.67	0.43
1:A:380:LYS:O	1:A:381:THR:C	2.57	0.43
1:A:716:GLU:HG3	1:A:717:MET:N	2.34	0.43
1:A:769:SER:CB	1:A:807:ASN:OD1	2.65	0.43
1:A:786:ILE:H	1:A:786:ILE:HG13	1.53	0.43
1:B:322:THR:HG22	1:B:390:ARG:HB2	2.00	0.43
1:B:387:LEU:C	1:B:389:GLN:H	2.22	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
1:B:685:ILE:HG13	1:B:685:ILE:H	1.61	0.43
1:B:735:LEU:CG	1:B:760:VAL:O	2.58	0.43
2:C:4:LEU:HA	2:C:7:LEU:CD1	2.47	0.43
2:C:123:LYS:HG3	2:C:124:PHE:CE1	2.54	0.43
2:C:153:HIS:O	2:C:154:LYS:C	2.58	0.43
2:C:169:SER:HA	2:C:176:LEU:HD23	2.00	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:D:104:SER:O	2:D:108:GLY:HA3	2.18	0.43
2:G:109:ILE:HD12	2:G:109:ILE:O	2.19	0.43
2:H:152:PHE:O	2:H:328:SER:HA	2.19	0.43
2:I:75:ALA:CB	2:M:76:ASN:HA	2.34	0.43
2:J:5:TYR:O	2:J:6:SER:C	2.57	0.43
2:L:10:THR:O	2:L:14:ALA:HB2	2.18	0.43
2:M:1:MET:O	2:M:4:LEU:N	2.51	0.43
2:M:2:ASP:O	2:M:5:TYR:HB3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:A:148:TRP:HH2	1:A:245:LEU:O	2.02	0.42
1:A:421:ARG:HG3	1:B:523:VAL:HG21	1.89	0.42
1:A:470:ASN:CA	2:G:70:LEU:HD21	2.39	0.42
1:A:492:VAL:CG2	1:A:558:MET:SD	3.07	0.42
1:A:524:ASP:O	1:A:525:TYR:C	2.56	0.42
1:A:679:LEU:O	1:A:681:ILE:N	2.52	0.42
1:A:694:ARG:HD3	1:A:701:GLN:HE21	1.84	0.42
1:A:707:TYR:N	1:A:707:TYR:CD1	2.87	0.42
1:A:712:LEU:CD1	1:A:819:PRO:HB3	2.49	0.42
1:B:245:LEU:O	1:B:246:HIS:HB2	2.18	0.42
1:B:287:ASN:HD22	1:B:287:ASN:HA	1.71	0.42
1:B:492:VAL:HB	1:B:558:MET:SD	2.59	0.42
1:B:612:SER:O	1:B:616:GLU:HB2	2.19	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
2:C:23:LEU:O	2:C:26:ASN:ND2	2.51	0.42
2:D:10:THR:O	2:D:14:ALA:HB2	2.19	0.42
2:G:67:GLY:O	2:G:68:THR:CG2	2.66	0.42
2:H:225:LEU:HD13	2:H:277:PHE:CD2	2.53	0.42
2:I:23:LEU:O	2:I:26:ASN:ND2	2.51	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:K:152:PHE:O	2:K:328:SER:HA	2.19	0.42
2:M:227:PRO:HD3	2:M:277:PHE:CG	2.53	0.42
2:N:116:LEU:O	2:N:119:LEU:N	2.50	0.42
2:O:122:ILE:HG23	2:O:123:LYS:N	2.33	0.42
2:O:249:PHE:CE2	2:O:251:PRO:HG3	2.53	0.42
1:A:166:PHE:O	1:A:169:LEU:N	2.52	0.42
1:A:188:VAL:HG12	1:A:189:GLU:H	1.76	0.42
1:A:313:ASN:CB	1:B:534:LEU:HD21	2.48	0.42
1:A:322:THR:HG22	1:A:390:ARG:HB2	2.02	0.42
1:A:328:LEU:HG	1:A:603:TYR:HE1	1.85	0.42
1:A:434:THR:HA	1:A:438:PRO:HG3	2.01	0.42
1:A:720:TYR:CD1	1:A:819:PRO:HG2	2.54	0.42
1:B:85:GLU:O	1:B:86:ILE:C	2.58	0.42
1:B:111:ILE:O	1:B:113:PRO:HD3	2.17	0.42
1:B:324:SER:O	1:B:325:ASN:C	2.57	0.42
1:B:431:ILE:O	1:B:435:ILE:HB	2.20	0.42
1:B:521:MET:N	1:B:521:MET:SD	2.91	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:676:VAL:O	1:B:677:ARG:C	2.58	0.42
1:B:773:SER:O	1:B:776:ALA:N	2.52	0.42
2:C:2:ASP:O	2:C:3:VAL:C	2.58	0.42
2:C:312:GLN:HB3	2:C:313:PRO:HA	1.99	0.42
2:D:67:GLY:O	2:D:68:THR:CG2	2.66	0.42
2:E:128:ASN:O	2:E:129:PHE:CB	2.67	0.42
2:E:163:SER:HB3	2:E:181:TRP:CZ2	2.54	0.42
2:E:227:PRO:O	2:E:228:ASP:HB2	2.19	0.42
2:G:89:VAL:O	2:G:91:PHE:N	2.52	0.42
2:H:2:ASP:O	2:H:3:VAL:C	2.57	0.42
2:H:108:GLY:HA3	2:H:381:ASN:ND2	2.34	0.42
2:K:108:GLY:HA3	2:K:381:ASN:ND2	2.34	0.42
2:K:145:ARG:HH22	2:L:109:ILE:HG12	1.83	0.42
2:N:76:ASN:HB2	2:O:76:ASN:CB	2.48	0.42
2:N:78:VAL:O	2:N:81:ALA:N	2.41	0.42
2:N:152:PHE:O	2:N:328:SER:HA	2.19	0.42
2:O:61:PHE:N	2:O:61:PHE:CD1	2.87	0.42
2:O:163:SER:HB3	2:O:181:TRP:CZ2	2.54	0.42
1:A:383:ILE:O	1:A:386:MET:N	2.53	0.42
1:A:710:MET:CE	1:A:824:LYS:HE2	2.48	0.42
1:B:220:ALA:O	1:B:223:ARG:HB2	2.19	0.42
1:B:542:GLN:C	1:B:544:VAL:N	2.71	0.42
2:D:2:ASP:O	2:D:3:VAL:C	2.57	0.42
2:E:5:TYR:O	2:E:6:SER:C	2.57	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:F:33:GLN:O	2:F:36:GLN:HB3	2.19	0.42
2:G:1:MET:O	2:G:4:LEU:N	2.51	0.42
2:H:128:ASN:O	2:H:129:PHE:CB	2.67	0.42
2:I:2:ASP:O	2:I:3:VAL: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:N:163:SER:HB3	2:N:181:TRP:CZ2	2.54	0.42
2:O:74:ASP:O	2:O:75:ALA:C	2.57	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
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:A:681:ILE:HD12	1:A:681:ILE:HA	1.89	0.42
1:B:158:GLY:H	1:B:762:ALA:HB3	1.85	0.42
1:B:347:GLN:HE21	1:B:347:GLN:HB3	1.64	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:406:SER:O	1:B:409:TRP:N	2.50	0.42
1:B:464:GLN:CD	2:H:64:GLY:C	2.72	0.42
1:B:803:ASN:OD1	1:B:803:ASN:O	2.38	0.42
1:B:855:LEU:O	1:B:858:VAL:N	2.51	0.42
2:C:89:VAL:C	2:C:91:PHE:N	2.73	0.42
2:C:168:ARG:HD2	2:C:175:ASN:O	2.20	0.42
2:E:108:GLY:HA3	2:E:381:ASN:ND2	2.34	0.42
2:E:152:PHE:O	2:E:328:SER:HA	2.19	0.42
2:G:5:TYR:O	2:G:6:SER:C	2.57	0.42
2:G:65:LEU:HB3	2:G:66:LEU:H	1.73	0.42
2:G:99:GLU:O	2:G:99:GLU:HG3	2.19	0.42
2:H:135:TYR:CZ	2:H:342:MET:HE3	2.53	0.42
2:H:163:SER:HB3	2:H:181:TRP:CZ2	2.54	0.42
2:H:227:PRO:O	2:H:228:ASP:HB2	2.20	0.42
2:I:5:TYR:HE2	2:I:130:ASP:O	2.03	0.42
2:I:128:ASN:O	2:I:129:PHE:CB	2.66	0.42
2:J:89:VAL:O	2:J:91:PHE:N	2.52	0.42
2:K:23:LEU:HD23	2:K:25:SER:H	1.85	0.42
2:K:168:ARG:HD2	2:K:175:ASN:O	2.20	0.42
2:L:123:LYS:HG3	2:L:124:PHE:CE1	2.54	0.42
2:M:14:ALA:C	2:M:16:ASP:N	2.71	0.42
2:M:168:ARG:HD2	2:M:175:ASN:O	2.20	0.42
2:N:34:PHE:O	2:N:35:ASN:C	2.57	0.42
2:N:142:GLN:NE2	2:N:143:ASN:N	2.66	0.42
1:A:243:SER:O	1:A:839:MET:HG2	2.19	0.42
1:A:283:ASN:HD21	1:A:869:VAL:H	1.66	0.42
1:A:583:SER:OG	1:A:584:LEU:N	2.53	0.42
1:B:102:GLU:C	1:B:104:ILE:N	2.73	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:B:638:MET:HB2	1:B:639:LYS:H	1.48	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:C:1:MET:O	2:C:4:LEU:HB3	2.18	0.42
2:C:5:TYR:O	2:C:6:SER:C	2.58	0.42
2:D:89:VAL:O	2:D:91:PHE:N	2.52	0.42
2:E:99:GLU:OE2	2:E:112:GLN:HG2	2.20	0.42
2:F:168:ARG:HD2	2:F:175:ASN:O	2.20	0.42
2:G:4:LEU:HA	2:G:7:LEU:CD1	2.48	0.42
2:G:169:SER:HA	2:G:176:LEU:HD23	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:I:1:MET:O	2:I:2:ASP:C	2.56	0.42
2:J:2:ASP:O	2:J:5:TYR:HB3	2.19	0.42
2:L:33:GLN:O	2:L:36:GLN:HB3	2.19	0.42
2:O:2:ASP:O	2:O:3:VAL:C	2.57	0.42
2:O:89:VAL:C	2:O:91:PHE:N	2.72	0.42
1:A:597:PRO:CB	1:A:860:ALA:HB3	2.46	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
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
1:B:236:ARG:O	1:B:237:ASN:HB2	2.19	0.42
1:B:246:HIS:HD2	1:B:248:ILE:N	2.18	0.42
1:B:689:MET:CA	1:B:692:ILE:HD12	2.43	0.42
1:B:773:SER:O	1:B:774:LEU:C	2.58	0.42
2:F:5:TYR:O	2:F:6:SER:C	2.58	0.42
2:F:253:ILE:HG13	2:G:234:PHE:CE1	2.55	0.42
2:H:168:ARG:HD2	2:H:175:ASN:O	2.20	0.42
2:I:33:GLN:O	2:I:36:GLN:HB3	2.19	0.42
2:I:168:ARG:HD2	2:I:175:ASN:O	2.20	0.42
2:I:234:PHE:CE1	2:K:253:ILE:HG13	2.55	0.42
2:J:2:ASP:O	2:J:3:VAL:C	2.58	0.42
2:J:51:ILE:O	2:J:52:GLY:C	2.57	0.42
2:K:99:GLU:OE2	2:K:112:GLN:HG2	2.20	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
2:M:163:SER:HB3	2:M:181:TRP:CZ2	2.54	0.42
1:A:236:ARG:HB2	1:A:238:VAL:HG23	2.01	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: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:745:ALA:HA	1:A:748:THR:OG1	2.19	0.42
1:A:812:VAL:O	1:A:813:ALA:C	2.58	0.42
1:A:855:LEU:O	1:A:856:ALA:C	2.58	0.42
1:B:95:ILE:CG2	1:B:97:THR:OG1	2.67	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:489:LEU:HD11	2:M:69:THR:HG23	2.00	0.42
1:B:536:LEU:N	1:B:536:LEU:HD22	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:799:LEU:HD23	1:B:799:LEU:HA	1.81	0.42
1:B:820:THR:O	1:B:820:THR:HG22	2.19	0.42
2:C:5:TYR:HE2	2:C:130:ASP:O	2.03	0.42
2:C:63:PHE:CD1	2:C:63:PHE:N	2.88	0.42
2:C:227:PRO:O	2:C:228:ASP:HB2	2.20	0.42
2:E:142:GLN:NE2	2:E:143:ASN:N	2.66	0.42
2:F:2:ASP:O	2:F:3:VAL:C	2.57	0.42
2:F:63:PHE:CD1	2:F:63:PHE:N	2.88	0.42
2:F:123:LYS:HG3	2:F:124:PHE:CE1	2.54	0.42
2:G:51:ILE:O	2:G:52:GLY:C	2.57	0.42
2:I:123:LYS:HG3	2:I:124:PHE:CE1	2.55	0.42
2:I:253:ILE:HG13	2:J:234:PHE:CE1	2.55	0.42
2:L:153:HIS:O	2:L:154:LYS:C	2.58	0.42
2:L:163:SER:HB3	2:L:181:TRP:CZ2	2.54	0.42
2:L:168:ARG:HD2	2:L:175:ASN:O	2.20	0.42
2:M:51:ILE:O	2:M:52:GLY:C	2.57	0.42
2:N:99:GLU:OE2	2:N:112:GLN:HG2	2.20	0.42
2:N:150:PHE:O	2:N:330:VAL:HG13	2.19	0.42
2:N:168:ARG:HD2	2:N:175:ASN:O	2.20	0.42
1:A:164:GLU:HA	1:A:633:LEU:HD21	2.02	0.42
1:A:362:SER:CA	1:A:365:GLN:NE2	2.81	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:145:ARG:HB3	1:B:147:TYR:HE1	1.85	0.42
1:B:422:GLU:CA	1:B:425:VAL:HG23	2.37	0.42
1:B:651:ILE:HG23	1:B:652:PHE:N	2.35	0.42
1:B:699:ILE:HA	1:B:763:LEU:O	2.19	0.42
1:B:738:LEU:CD2	1:B:790:ARG:HH12	2.33	0.42
1:B:816:ASP:O	1:B:817:TRP:CB	2.65	0.42
1:B:866:ILE:O	1:B:866:ILE:HG22	2.20	0.42
1:B:868:ALA:CB	1:B:876:ILE:HG12	2.35	0.42
2:C:227:PRO:HD3	2:C:277:PHE:CG	2.53	0.42
2:D:253:ILE:HG13	2:E:234:PHE:CE1	2.55	0.42
2:E:74:ASP:O	2:E:75:ALA:C	2.58	0.42
2:F:227:PRO:O	2:F:228:ASP:HB2	2.20	0.42
2:F:234:PHE:CE1	2:H:253:ILE:HG13	2.55	0.42
2:H:1:MET:C	2:H:3:VAL:N	2.73	0.42
2:H:89:VAL:C	2:H:91:PHE:N	2.73	0.42
2:I:227:PRO:O	2:I:228:ASP:HB2	2.20	0.42
2:J:99:GLU:O	2:J:99:GLU:HG3	2.18	0.42
2:J:168:ARG:HD2	2:J:175:ASN:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:4:LEU:HA	2:K:7:LEU:CD1	2.48	0.42
2:K:62:ASP:H	2:K:63:PHE:HD1	1.66	0.42
2:K:89:VAL:C	2:K:91:PHE:N	2.73	0.42
2:K:116:LEU:O	2:K:117:ILE:C	2.58	0.42
2:L:63:PHE:N	2:L:63:PHE:CD1	2.88	0.42
2:L:124:PHE:C	2:L:126:ARG:N	2.73	0.42
2:M:227:PRO:O	2:M:228:ASP:HB2	2.20	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
1:A:359:THR:O	1:A:359:THR:HG22	2.18	0.42
1:A:421:ARG:C	1:A:423:SER:N	2.73	0.42
1:A:472:LEU:H	1:A:472:LEU:HG	1.49	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:A:645:PHE:CD2	1:A:646:LEU:HD23	2.54	0.42
1:A:722:ASN:ND2	1:A:823:THR:O	2.52	0.42
1:B:237:ASN:HD22	1:B:237:ASN:N	2.16	0.42
1:B:297:ARG:HG3	1:B:848:PHE:CE2	2.51	0.42
1:B:402:MET:C	1:B:404:LEU:N	2.71	0.42
1:B:546:LEU:HA	1:B:546:LEU:HD23	1.79	0.42
1:B:674:VAL:HG12	1:B:678:ARG:HB2	2.02	0.42
1:B:869:VAL:CA	1:B:876:ILE:HG23	2.48	0.42
2:C:124:PHE:C	2:C:126:ARG:N	2.73	0.42
2:D:33:GLN:O	2:D:36:GLN:HB3	2.20	0.42
2:D:227:PRO:O	2:D:228:ASP:HB2	2.20	0.42
2:F:153:HIS:O	2:F:154:LYS:C	2.58	0.42
2:G:227:PRO:O	2:G:228:ASP:HB2	2.20	0.42
2:H:83:ASN:CG	2:I:122:ILE:HB	2.40	0.42
2:J:227:PRO:O	2:J:228:ASP:HB2	2.20	0.42
2:K:150:PHE:O	2:K:330:VAL:HG13	2.19	0.42
2:M:2:ASP:O	2:M:3:VAL:C	2.57	0.42
2:M:54:LEU:HA	2:M:55:PRO:HD3	1.82	0.42
2:M:109:ILE:HD12	2:M:109:ILE:O	2.19	0.42
2:M:124:PHE:O	2:M:126:ARG:N	2.53	0.42
2:O:227:PRO:O	2:O:228:ASP:HB2	2.20	0.42
1:A:329:ALA:HB3	1:A:384:ALA:HB2	2.02	0.42
1:A:747:ILE:HG23	1:A:748:THR:H	1.84	0.42
1:A:771:VAL:CG1	1:A:809:PHE:HB3	2.49	0.42
1:A:856:ALA:C	1:A:858:VAL:H	2.24	0.42
1:B:118:LYS:CG	1:B:119:GLN:N	2.83	0.42
1:B:183:LEU:HG	1:B:844:SER:OG	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:B:742:GLY:O	1:B:744:TYR:CE2	2.70	0.42
2:C:74:ASP:OD2	2:C:76:ASN:HB3	2.20	0.42
2:C:145:ARG:HG2	2:N:145:ARG:HG3	2.01	0.42
2:E:10:THR:O	2:E:14:ALA:HB2	2.20	0.42
2:E:168:ARG:HD2	2:E:175:ASN:O	2.20	0.42
2:F:74:ASP:OD2	2:F:76:ASN:HB3	2.20	0.42
2:H:24:TYR:HE1	2:H:31:ILE:HG13	1.85	0.42
2:H:150:PHE:O	2:H:330:VAL:HG13	2.19	0.42
2:J:163:SER:HB3	2:J:181:TRP:CZ2	2.54	0.42
2:K:74:ASP:O	2:K:75:ALA:C	2.58	0.42
2:L:74:ASP:OD2	2:L:76:ASN:HB3	2.20	0.42
2:N:1:MET:C	2:N:3:VAL:N	2.73	0.42
2:O:72:ASN:O	2:O:73:LEU:C	2.58	0.42
1:A:266:ASN:C	1:A:292:LEU:HD12	2.40	0.41
1:A:407:GLY:O	1:A:410:LEU:HB2	2.19	0.41
1:A:712:LEU:HD21	1:A:821:SER:HB3	2.02	0.41
1:A:757:VAL:CG1	1:A:758:ALA:H	2.31	0.41
1:A:854:LEU:O	1:A:855:LEU:C	2.57	0.41
1:B:158:GLY:O	1:B:159:ASP:C	2.58	0.41
1:B:383:ILE:HG22	1:B:387:LEU:CD1	2.50	0.41
1:B:409:TRP:CZ3	1:B:413:VAL:CG2	3.03	0.41
2:E:2:ASP:O	2:E:3:VAL:C	2.57	0.41
2:E:23:LEU:HD23	2:E:25:SER:H	1.85	0.41
2:G:2:ASP:O	2:G:3:VAL:C	2.58	0.41
2:G:253:ILE:HG13	2:H:234:PHE:CE1	2.55	0.41
2:H:57:ARG:NH1	2:H:94:ASN:HD21	2.07	0.41
2:I:101:VAL:HG23	2:I:102:ARG:N	2.35	0.41
2:J:4:LEU:HA	2:J:7:LEU:CD1	2.48	0.41
2:J:124:PHE:O	2:J:126:ARG:N	2.53	0.41
2:K:136:ILE:HG23	2:K:137:GLU:N	2.34	0.41
2:L:122:ILE:HG23	2:L:123:LYS:N	2.35	0.41
2:L:227:PRO:O	2:L:228:ASP:HB2	2.20	0.41
1:A:275:PRO:HB2	1:A:278:ILE:HD12	1.98	0.41
1:A:700:ALA:O	1:A:701:GLN:CB	2.68	0.41
1:A:790:ARG:CZ	1:B:287:ASN:CG	2.88	0.41
1:A:844:SER:OG	1:A:845:ASN:N	2.53	0.41
1:B:188:VAL:HG12	1:B:189:GLU:N	2.35	0.41
1:B:371:ASN:O	1:B:372:SER:C	2.58	0.41
1:B:383:ILE:O	1:B:386:MET:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:722:ASN:ND2	1:B:823:THR:O	2.52	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:H:142:GLN:NE2	2:H:143:ASN:N	2.66	0.41
2:I:63:PHE:CD1	2:I:63:PHE:N	2.88	0.41
2:I:153:HIS:O	2:I:154:LYS:C	2.58	0.41
2:J:253:ILE:HG13	2:K:234:PHE:CE1	2.55	0.41
2:K:59:TRP:CD1	2:K:59:TRP:N	2.88	0.41
2:K:135:TYR:CZ	2:K:342:MET:HE3	2.55	0.41
2:K:227:PRO:O	2:K:228:ASP:HB2	2.19	0.41
2:L:140:ASN:O	2:L:143:ASN:N	2.51	0.41
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
2:O:168:ARG:HD2	2:O:175:ASN:O	2.20	0.41
1:A:154:THR:O	1:A:155:LEU:O	2.38	0.41
1:A:292:LEU:H	1:A:292:LEU:HG	1.66	0.41
1:A:299:ILE:CG2	1:A:300:ARG:N	2.83	0.41
1:A:310:LEU:O	1:A:318:TRP:CD1	2.70	0.41
1:A:347:GLN:HE21	1:A:347:GLN:HB3	1.65	0.41
1:A:362:SER:O	1:A:364:THR:N	2.53	0.41
1:B:89:GLU:O	1:B:91:LEU:N	2.54	0.41
1:B:239:VAL:HG22	1:B:846:LEU:HB2	2.02	0.41
1:B:298:TYR:HE1	1:B:300:ARG:HA	1.85	0.41
1:B:415:PRO:C	1:B:417:ASP:N	2.72	0.41
2:E:89:VAL:C	2:E:91:PHE:N	2.73	0.41
2:E:116:LEU:O	2:E:117:ILE:C	2.58	0.41
2:E:355:ILE:HA	2:E:356:PRO:HD3	1.96	0.41
2:G:66:LEU:HD23	2:G:66:LEU:HA	1.71	0.41
2:J:74:ASP:O	2:J:75:ALA:C	2.58	0.41
2:J:89:VAL:C	2:J:91:PHE:N	2.74	0.41
2:L:106:ARG:HD3	2:L:106:ARG:N	2.15	0.41
2:L:234:PHE:CE1	2:N:253:ILE:HG13	2.55	0.41
2:L:235:PRO:HA	2:L:249:PHE:O	2.20	0.41
2:N:74:ASP:O	2:N:75:ALA:C	2.58	0.41
2:O:136:ILE:HG23	2:O:137:GLU:N	2.33	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:A:443:GLN:NE2	1:A:521:MET:CG	2.83	0.41
1:A:544:VAL:O	1:A:548:ARG:HG3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:703:VAL:CG1	1:A:704:ILE:N	2.83	0.41
1:A:854:LEU:HB3	1:A:855:LEU:H	1.38	0.41
1:B:141:GLU:O	1:B:142:LEU:CB	2.66	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
1:B:282:VAL:C	1:B:284:TYR:N	2.74	0.41
1:B:409:TRP:O	1:B:412:THR:N	2.54	0.41
1:B:637:LYS:O	1:B:638:MET:O	2.38	0.41
2:C:122:ILE:HG23	2:C:123:LYS:N	2.35	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:E:123:LYS:HG3	2:E:124:PHE:HD1	1.86	0.41
2:F:89:VAL:C	2:F:91:PHE:N	2.73	0.41
2:F:235:PRO:HA	2:F:249:PHE:O	2.20	0.41
2:G:33:GLN:O	2:G:36:GLN:HB3	2.20	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
2:I:89:VAL:C	2:I:91:PHE:N	2.73	0.41
2:I:122:ILE:HG23	2:I:123:LYS:N	2.35	0.41
2:I:204:ASN:HB3	2:I:296:ARG:HB3	2.03	0.41
2:N:123:LYS:HG3	2:N:124:PHE:HD1	1.86	0.41
2:O:235:PRO:HA	2:O:249:PHE:O	2.20	0.41
1:A:365:GLN:HB2	1:A:366:PHE:CE1	2.56	0.41
1:A:544:VAL:CG1	1:A:548:ARG:HH21	2.33	0.41
1:A:668:ARG:HG3	1:A:668:ARG:HH11	1.84	0.41
1:A:789:LEU:O	1:A:791:LYS:N	2.53	0.41
1:B:244:ILE:HD11	1:B:838:SER:CB	2.48	0.41
1:B:311:HIS:CG	1:B:566:GLN:OE1	2.73	0.41
1:B:434:THR:C	1:B:435:ILE:CG1	2.89	0.41
1:B:597:PRO:HB2	1:B:598:GLN:H	1.75	0.41
2:D:23:LEU:CD2	2:D:25:SER:H	2.33	0.41
2:E:1:MET:O	2:E:4:LEU:N	2.54	0.41
2:G:168:ARG:HD2	2:G:175:ASN:O	2.20	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
2:M:89:VAL:C	2:M:91:PHE:N	2.74	0.41
2:M:253:ILE:HG13	2:N:234:PHE:CE1	2.55	0.41
2:N:109:ILE:O	2:N:109:ILE:HG13	2.20	0.41
2:O:4:LEU:HA	2:O:7:LEU:CD1	2.49	0.41
2:O:33:GLN:O	2:O:36:GLN:HB3	2.21	0.41
1:A:181:LEU:HD23	1:A:257:LEU:HD21	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:398:THR:O	1:A:398:THR:HG22	2.21	0.41
1:A:484:VAL:HG12	1:A:485:ILE:N	2.35	0.41
1:A:549:LEU:O	1:A:550:LEU:C	2.58	0.41
1:A:703:VAL:HG12	1:A:704:ILE:N	2.34	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
1:B:230:GLN:CD	1:B:230:GLN:N	2.74	0.41
1:B:276:GLU:HG3	1:B:276:GLU:O	2.20	0.41
1:B:477:ASN:O	1:B:478:ASN:C	2.59	0.41
1:B:638:MET:HE2	1:B:666:ARG:NH1	2.36	0.41
1:B:721:VAL:CG1	1:B:722:ASN:N	2.77	0.41
1:B:879:GLU:O	1:B:880:LEU:OXT	2.38	0.41
2:C:101:VAL:HG23	2:C:102:ARG:N	2.35	0.41
2:D:31:ILE:O	2:D:34:PHE:HB3	2.21	0.41
2:E:235:PRO:HA	2:E:249:PHE:O	2.21	0.41
2:F:122:ILE:HG23	2:F:123:LYS:N	2.35	0.41
2:H:10:THR:O	2:H:14:ALA:HB2	2.20	0.41
2:H:23:LEU:HD23	2:H:25:SER:H	1.85	0.41
2:H:109:ILE:HG13	2:H:109:ILE:O	2.20	0.41
2:I:140:ASN:O	2:I:143:ASN:N	2.51	0.41
2:J:33:GLN:O	2:J:36:GLN:HB3	2.20	0.41
2:J:109:ILE:HD12	2:J:109:ILE:O	2.19	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: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
1:A:130:GLN:HB3	1:A:131:LEU:H	1.62	0.41
1:A:229:ARG:O	1:A:242:PRO:CG	2.69	0.41
1:A:707:TYR:OH	1:A:754:ASN:HA	2.20	0.41
1:A:779:ASP:OD2	1:A:822:THR:O	2.39	0.41
1:A:782:VAL:O	1:A:785:GLN:HG2	2.21	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
1:B:762:ALA:O	1:B:763:LEU:HD23	2.20	0.41
1:B:852:SER:O	1:B:854:LEU:N	2.41	0.41
2:C:106:ARG:HD3	2:C:106:ARG:N	2.14	0.41
2:C:204:ASN:HB3	2:C:296:ARG:HB3	2.03	0.41
2:F:5:TYR:HE2	2:F:130:ASP:O	2.03	0.41
2:F:101:VAL:HG23	2:F:102:ARG:N	2.35	0.41
2:F:131:ASN:N	2:F:131:ASN:ND2	2.69	0.41
2:G:65:LEU:HD23	2:G:65:LEU:HA	1.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:74:ASP:O	2:G:75:ALA:C	2.58	0.41
2:I:110:ALA:HB1	2:I:111:PRO:CD	2.51	0.41
2:I:124:PHE:C	2:I:126:ARG:N	2.73	0.41
2:L:5:TYR:HE2	2:L:130:ASP:O	2.03	0.41
2:L:253:ILE:HG13	2:M:234:PHE:CE1	2.55	0.41
2:M:33:GLN:O	2:M:36:GLN:HB3	2.20	0.41
2:O:5:TYR:CE2	2:O:131:ASN:HA	2.56	0.41
1:A:303:LEU:HA	1:A:615:ASN:HD21	1.78	0.41
1:A:368:THR:O	1:A:369:GLY:O	2.38	0.41
1:A:406:SER:O	1:A:409:TRP:N	2.53	0.41
1:A:527:ARG:NH1	1:A:527:ARG:CG	2.83	0.41
1:A:694:ARG:HD3	1:A:701:GLN:NE2	2.36	0.41
1:B:106:LYS:O	1:B:110:ASP:HB2	2.20	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:C:355:ILE:HA	2:C:356:PRO:HD3	1.96	0.41
2:D:74:ASP:O	2:D:75:ALA:C	2.58	0.41
2:D:168:ARG:HD2	2:D:175:ASN:O	2.20	0.41
2:G:23:LEU:CD2	2:G:25:SER:H	2.33	0.41
2:G:235:PRO:HA	2:G:249:PHE:O	2.21	0.41
2:H:2:ASP:O	2:H:5:TYR:HB3	2.21	0.41
2:J:23:LEU:CD2	2:J:25:SER:H	2.34	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:L:5:TYR:HE2	2:L:131:ASN:HA	1.84	0.41
2:M:204:ASN:HB3	2:M:296:ARG:HB3	2.03	0.41
2:M:235:PRO:HA	2:M:249:PHE:O	2.21	0.41
2:N:23:LEU:HD23	2:N:25:SER:H	1.85	0.41
2:N:45:GLU:HG2	2:N:60:ASN:OD1	2.21	0.41
1:A:249:ASP:O	1:A:250:TYR:C	2.58	0.41
1:A:266:ASN:O	1:A:267:ASN:C	2.60	0.41
1:A:282:VAL:C	1:A:284:TYR:H	2.24	0.41
1:A:319:ASP:OD2	1:A:571:LEU:CB	2.69	0.41
1:A:578:LEU:HA	1:A:581:VAL:CG2	2.51	0.41
1:A:646:LEU:HD23	1:A:646:LEU:N	2.36	0.41
1:A:660:ASP:C	1:A:662:MET:N	2.74	0.41
1:A:705:ILE:O	1:A:705:ILE:HG23	2.20	0.41
1:B:126:PHE:HB2	1:B:149:LYS:O	2.21	0.41
1:B:130:GLN:O	1:B:131:LEU:HD23	2.21	0.41
1:B:370:ILE:HG22	1:B:373:GLN:HB3	2.02	0.41
1:B:392:MET:CA	1:B:573:THR:HG23	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:589:GLY:C	1:B:591:ALA:H	2.25	0.41
1:B:670:ARG:HH21	2:L:69:THR:HG21	1.85	0.41
1:B:681:ILE:HD12	1:B:681:ILE:HA	1.79	0.41
1:B:722:ASN:O	1:B:824:LYS:CB	2.65	0.41
1:B:796:LYS:HA	1:B:797:PRO:HD3	1.88	0.41
2:C:110:ALA:HB1	2:C:111:PRO:CD	2.51	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:E:125:LYS:C	2:E:127:ILE:H	2.24	0.41
2:F:110:ALA:HB1	2:F:111:PRO:CD	2.51	0.41
2:F:124:PHE:C	2:F:126:ARG:N	2.73	0.41
2:G:23:LEU:HD22	2:G:25:SER:H	1.86	0.41
2:G:31:ILE:O	2:G:34:PHE:HB3	2.21	0.41
2:H:106:ARG:HB3	2:H:107:ASN:H	1.63	0.41
2:H:355:ILE:HA	2:H:356:PRO:HD3	1.96	0.41
2:I:74:ASP:OD2	2:I:76:ASN:HB3	2.20	0.41
2:J:235:PRO:HA	2:J:249:PHE:O	2.21	0.41
2:K:10:THR:O	2:K:14:ALA:HB2	2.20	0.41
2:L:59:TRP:CD1	2:L:59:TRP:N	2.89	0.41
2:L:152:PHE:O	2:L:328:SER:HA	2.21	0.41
2:N:1:MET:O	2:N:4:LEU:N	2.54	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:89:VAL:C	2:N:91:PHE:N	2.73	0.41
2:N:125:LYS:C	2:N:127:ILE:H	2.24	0.41
1:A:301:PRO:O	1:A:303:LEU:HD21	2.20	0.41
1:A:678:ARG:H	1:A:678:ARG:HG2	1.63	0.41
1:A:846:LEU:HD23	1:A:846:LEU:HA	1.78	0.41
1:B:237:ASN:N	1:B:237:ASN:ND2	2.68	0.41
1:B:499:ASP:O	1:B:500:GLY:O	2.39	0.41
1:B:646:LEU:HD23	1:B:646:LEU:N	2.36	0.41
2:C:140:ASN:O	2:C:143:ASN:N	2.51	0.41
2:C:235:PRO:HA	2:C:249:PHE:O	2.20	0.41
2:D:109:ILE:HD12	2:D:109:ILE:O	2.19	0.41
2:F:152:PHE:O	2:F:328:SER:HA	2.21	0.41
2:G:204:ASN:HB3	2:G:296:ARG:HB3	2.03	0.41
2:I:5:TYR:O	2:I:6:SER:C	2.58	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:24:TYR:HE1	2:N:31:ILE:HG13	1.85	0.41
2:N:235:PRO:HA	2:N:249:PHE:O	2.21	0.41
1:A:159:ASP:O	1:A:162:VAL:HB	2.22	0.40
1:A:186:MET:O	1:A:187:ALA:O	2.39	0.40
1:A:506:LEU:HD21	1:A:544:VAL:N	2.35	0.40
1:A:563:MET:O	1:A:565:MET:N	2.54	0.40
1:A:697:ASP:HB3	1:A:765:PHE:CE2	2.53	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:B:244:ILE:O	1:B:244:ILE:HG23	2.21	0.40
1:B:378:CYS:HB2	1:B:580:SER:CB	2.50	0.40
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:666:ARG:O	1:B:667:ASP:C	2.60	0.40
1:B:842:LEU:HA	1:B:842:LEU:HD23	1.83	0.40
1:B:876:ILE:HG13	1:B:877:MET:N	2.34	0.40
2:D:153:HIS:NE2	2:E:153:HIS:CD2	2.89	0.40
2:D:235:PRO:HA	2:D:249:PHE:O	2.21	0.40
2:E:109:ILE:O	2:E:109:ILE:HG13	2.20	0.40
2:G:23:LEU:HD23	2:G:24:TYR:H	1.82	0.40
2:H:45:GLU:HG2	2:H:60:ASN:OD1	2.21	0.40
2:J:31:ILE:O	2:J:34:PHE:HB3	2.21	0.40
2:L:62:ASP:H	2:L:63:PHE:HD1	1.70	0.40
2:L:89:VAL:C	2:L:91:PHE:N	2.73	0.40
1:A:183:LEU:O	1:A:184:LYS:C	2.59	0.40
1:A:642:VAL:HG13	1:A:665:LEU:HD23	2.02	0.40
1:A:681:ILE:HG23	1:A:682:PHE:N	2.36	0.40
1:B:133:ILE:HD11	1:B:147:TYR:CE1	2.56	0.40
1:B:328:LEU:O	1:B:331:SER:HB3	2.21	0.40
1:B:483:VAL:O	2:I:67:GLY:CA	2.69	0.40
1:B:631:LEU:HD23	1:B:631:LEU:HA	1.74	0.40
1:B:654:VAL:CG1	1:B:655:ALA:H	2.31	0.40
1:B:826:TYR:O	1:B:827:LYS:C	2.60	0.40
1:B:833:PHE:CZ	1:B:835:PHE:CA	3.04	0.40
2:D:65:LEU:HB3	2:D:66:LEU:H	1.73	0.40
2:E:59:TRP:CD1	2:E:59:TRP:N	2.88	0.40
2:G:124:PHE:O	2:G:126:ARG:N	2.53	0.40
2:H:59:TRP:CD1	2:H:59:TRP:N	2.88	0.40
2:H:74:ASP:O	2:H:75:ALA:C	2.58	0.40
2:I:5:TYR:HE2	2:I:131:ASN:HA	1.84	0.40
2:I:131:ASN:N	2:I:131:ASN:ND2	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:23:LEU:HD22	2:J:25:SER:H	1.86	0.40
2:L:110:ALA:HB1	2:L:111:PRO:CD	2.51	0.40
2:L:214:LEU:N	2:L:214:LEU:HD23	2.37	0.40
2:N:10:THR:O	2:N:14:ALA:HB2	2.20	0.40
2:O:2:ASP:O	2:O:5:TYR:HB3	2.20	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
1:A:411:LEU:HA	1:A:411:LEU:HD23	1.91	0.40
1:A:636:LYS:O	1:A:637:LYS:C	2.60	0.40
1:A:654:VAL:O	1:A:657:VAL:CG2	2.66	0.40
1:A:812:VAL:C	1:A:814:ASN:N	2.71	0.40
1:B:305:GLN:HG3	1:B:564:ASN:HD21	1.86	0.40
1:B:413:VAL:O	1:B:414:VAL:C	2.59	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:666:ARG:HA	1:B:669:LEU:HD12	2.02	0.40
1:B:673:PRO:C	1:B:674:VAL:CG2	2.90	0.40
1:B:745:ALA:CB	1:B:748:THR:CB	2.97	0.40
1:B:807:ASN:C	1:B:809:PHE:N	2.74	0.40
1:B:826:TYR:O	1:B:828:GLN:N	2.54	0.40
2:C:131:ASN:N	2:C:131:ASN:ND2	2.69	0.40
2:D:24:TYR:O	2:D:26:ASN:N	2.55	0.40
2:D:214:LEU:N	2:D:214:LEU:HD23	2.36	0.40
2:I:214:LEU:HD23	2:I:214:LEU:N	2.37	0.40
2:K:24:TYR:HE1	2:K:31:ILE:HG13	1.85	0.40
2:M:23:LEU:HD22	2:M:25:SER:H	1.87	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:153:ASP:O	1:A:155:LEU:N	2.55	0.40
1:A:330:ARG:C	1:A:332:VAL:N	2.74	0.40
1:A:341:SER:O	1:A:342:THR:C	2.60	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:A:735:LEU:HG	1:A:760:VAL:O	2.21	0.40
1:A:760:VAL:HG12	1:A:761:GLY:N	2.37	0.40
1:A:827:LYS:O	1:A:828:GLN:O	2.39	0.40
1:B:235:ASP:O	1:B:237:ASN:N	2.49	0.40
1:B:646:LEU:O	1:B:649:LEU:HB2	2.21	0.40
1:B:699:ILE:HG23	1:B:763:LEU:H	1.87	0.40
1:B:803:ASN:C	1:B:805:ASP:H	2.25	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:24:TYR:HE1	2:E:31:ILE:HG13	1.85	0.40
2:H:125:LYS:C	2:H:127:ILE:H	2.24	0.40
2:I:62:ASP:H	2:I:63:PHE:HD1	1.70	0.40
2:J:125:LYS:O	2:J:127:ILE:N	2.55	0.40
2:K:2:ASP:O	2:K:5:TYR:HB3	2.21	0.40
2:K:78:VAL:O	2:K:81:ALA:HB3	2.22	0.40
2:L:116:LEU:O	2:L:119:LEU:N	2.52	0.40
2:L:204:ASN:HB3	2:L:296:ARG:HB3	2.03	0.40
2:M:24:TYR:O	2:M:26:ASN:N	2.55	0.40
2:M:214:LEU:N	2:M:214:LEU:HD23	2.37	0.40
1:A:314:PHE:HZ	1:A:664:ARG:HG2	1.85	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:803:ASN:H	1:A:807:ASN:ND2	2.20	0.40
1:A:880:LEU:H	1:A:880:LEU:HG	1.53	0.40
1:B:204:THR:HG23	1:B:244:ILE:H	1.86	0.40
1:B:292:LEU:HA	1:B:292:LEU:HD23	1.88	0.40
1:B:295:THR:O	1:B:297:ARG:HG2	2.21	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
1:B:604:TYR:O	1:B:605:ASN:C	2.58	0.40
1:B:622:VAL:O	1:B:623:ALA:C	2.59	0.40
1:B:745:ALA:C	1:B:747:ILE:N	2.74	0.40
2:C:78:VAL:O	2:C:81:ALA:HB3	2.22	0.40
2:D:4:LEU:HA	2:D:7:LEU:CD1	2.48	0.40
2:D:65:LEU:HD23	2:D:65:LEU:HA	1.88	0.40
2:E:69:THR:HG22	2:E:70:LEU:H	1.87	0.40
2:E:119:LEU:C	2:E:121:GLY:N	2.75	0.40
2:F:78:VAL:O	2:F:81:ALA:HB3	2.22	0.40
2:F:204:ASN:HB3	2:F:296:ARG:HB3	2.03	0.40
2:G:153:HIS:NE2	2:H:153:HIS:CD2	2.89	0.40
2:H:101:VAL:HB	2:H:355:ILE:HG21	2.03	0.40
2:H:204:ASN:HB3	2:H:296:ARG:HB3	2.03	0.40
2:H:378:ARG:O	2:H:382:LEU:HB2	2.22	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
2:J:153:HIS:NE2	2:K:153:HIS:CD2	2.89	0.40
2:L:78:VAL:O	2:L:81:ALA:HB3	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:131:ASN:N	2:L:131:ASN:ND2	2.69	0.40
2:M:74:ASP:O	2:M:75:ALA:C	2.58	0.40
2:M:116:LEU:O	2:M:117:ILE:C	2.60	0.40
2:O:13:ASP:O	2:O:17:LYS:HB2	2.21	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	2
1	B	798/800 (100%)	460 (58%)	210 (26%)	128 (16%)	0	3
2	C	395/397 (100%)	326 (82%)	49 (12%)	20 (5%)	2	23
2	D	395/397 (100%)	330 (84%)	43 (11%)	22 (6%)	2	21
2	E	395/397 (100%)	331 (84%)	45 (11%)	19 (5%)	2	24
2	F	395/397 (100%)	326 (82%)	49 (12%)	20 (5%)	2	23
2	G	395/397 (100%)	329 (83%)	45 (11%)	21 (5%)	2	23
2	H	395/397 (100%)	331 (84%)	45 (11%)	19 (5%)	2	24
2	I	395/397 (100%)	326 (82%)	49 (12%)	20 (5%)	2	23
2	J	395/397 (100%)	329 (83%)	45 (11%)	21 (5%)	2	23
2	K	395/397 (100%)	331 (84%)	45 (11%)	19 (5%)	2	24
2	L	395/397 (100%)	326 (82%)	49 (12%)	20 (5%)	2	23
2	M	395/397 (100%)	330 (84%)	44 (11%)	21 (5%)	2	23
2	N	395/397 (100%)	331 (84%)	45 (11%)	19 (5%)	2	24
2	O	395/397 (100%)	320 (81%)	52 (13%)	23 (6%)	1	21
All	All	6713/6761 (99%)	5159 (77%)	1016 (15%)	538 (8%)	2	14

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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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 [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	716/734 (98%)	628 (88%)	88 (12%)	4	24
1	B	734/734 (100%)	645 (88%)	89 (12%)	5	25
2	C	350/350 (100%)	329 (94%)	21 (6%)	19	50
2	D	350/350 (100%)	328 (94%)	22 (6%)	18	49
2	E	350/350 (100%)	329 (94%)	21 (6%)	19	50
2	F	350/350 (100%)	329 (94%)	21 (6%)	19	50
2	G	350/350 (100%)	328 (94%)	22 (6%)	18	49
2	H	350/350 (100%)	329 (94%)	21 (6%)	19	50
2	I	350/350 (100%)	329 (94%)	21 (6%)	19	50
2	J	350/350 (100%)	328 (94%)	22 (6%)	18	49
2	K	350/350 (100%)	329 (94%)	21 (6%)	19	50
2	L	350/350 (100%)	329 (94%)	21 (6%)	19	50
2	M	350/350 (100%)	328 (94%)	22 (6%)	18	49
2	N	350/350 (100%)	329 (94%)	21 (6%)	19	50
2	O	350/350 (100%)	331 (95%)	19 (5%)	22	53
All	All	6000/6018 (100%)	5548 (92%)	452 (8%)	17	44

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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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

Sometimes 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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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

*Continued on next page...*

*Continued from previous page...*

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 monosaccharides 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](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	B	2
1	A	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A	262:VAL	C	263[B]:GLU	N	1.63
1	B	116:ALA	C	117:LYS	N	1.09
1	B	848:PHE	C	849:THR	N	0.93

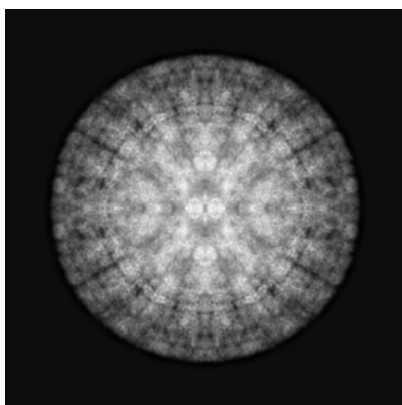
## 6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-1571. These allow visual inspection of the internal detail of the map and identification of artifacts.

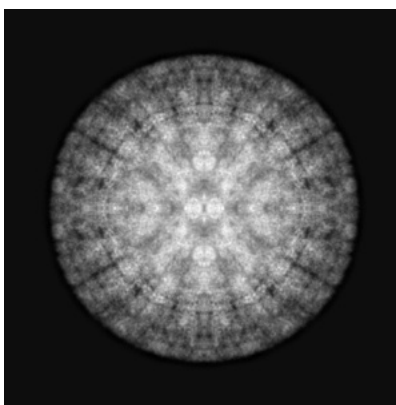
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

### 6.1 Orthogonal projections [i](#)

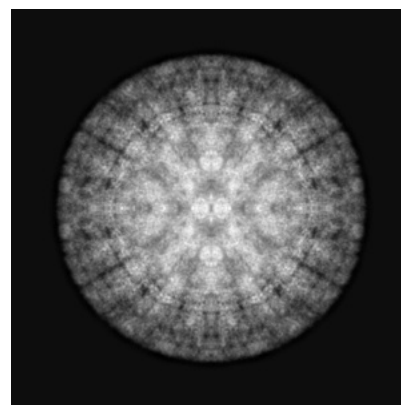
#### 6.1.1 Primary map



X



Y

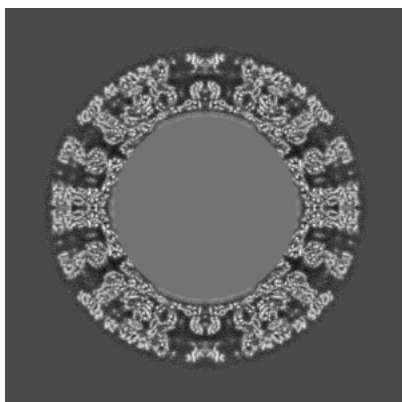


Z

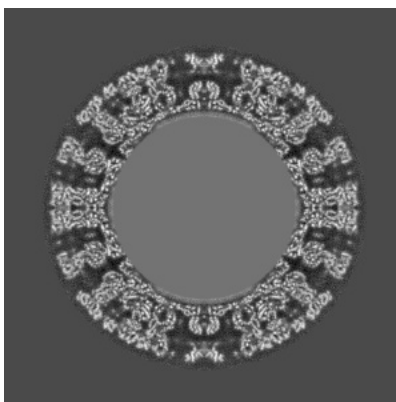
The images above show the map projected in three orthogonal directions.

### 6.2 Central slices [i](#)

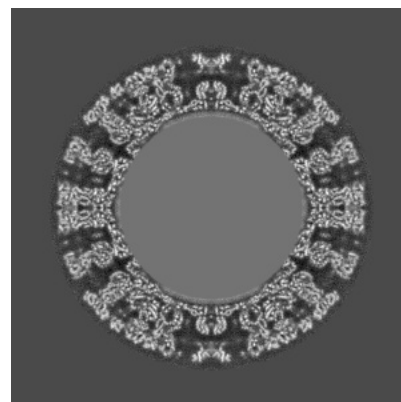
#### 6.2.1 Primary map



X Index: 400



Y Index: 400

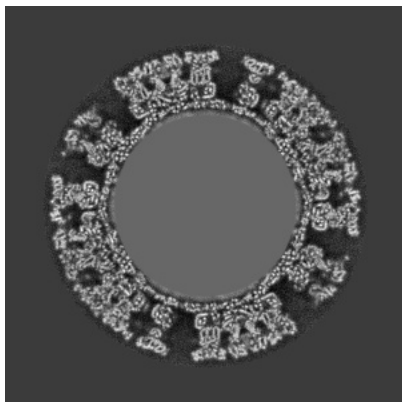


Z Index: 400

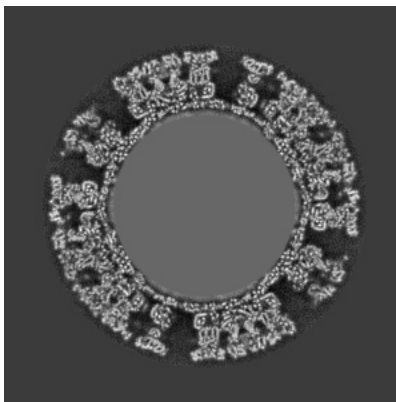
The images above show central slices of the map in three orthogonal directions.

## 6.3 Largest variance slices [i](#)

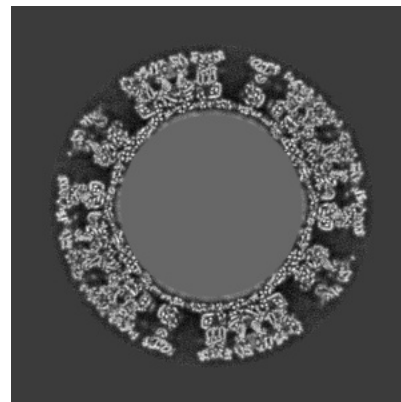
### 6.3.1 Primary map



X Index: 383



Y Index: 383



Z Index: 383

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

## 6.4 Orthogonal surface views [i](#)

### 6.4.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 2.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

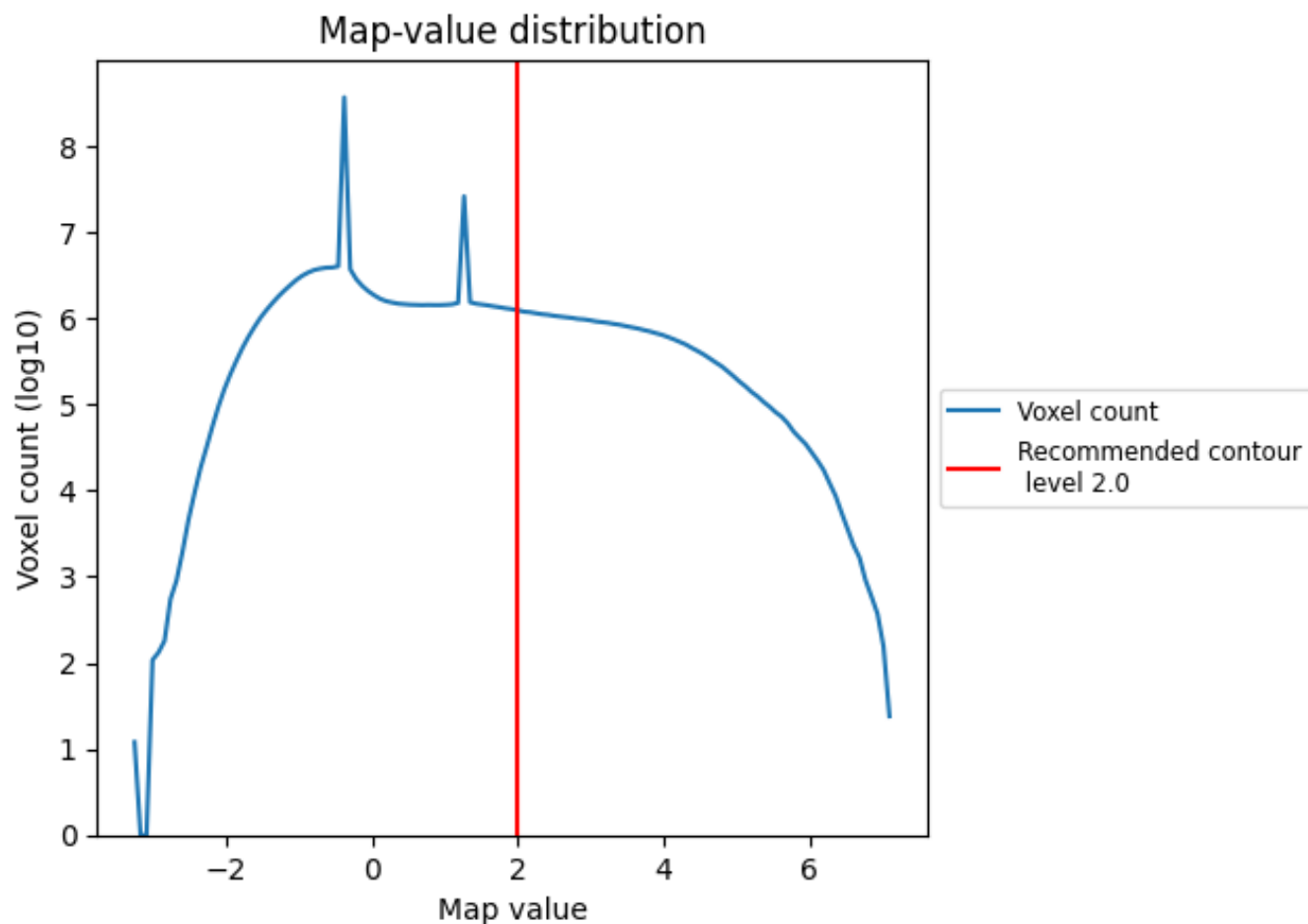
## 6.5 Mask visualisation

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

## 7 Map analysis [i](#)

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

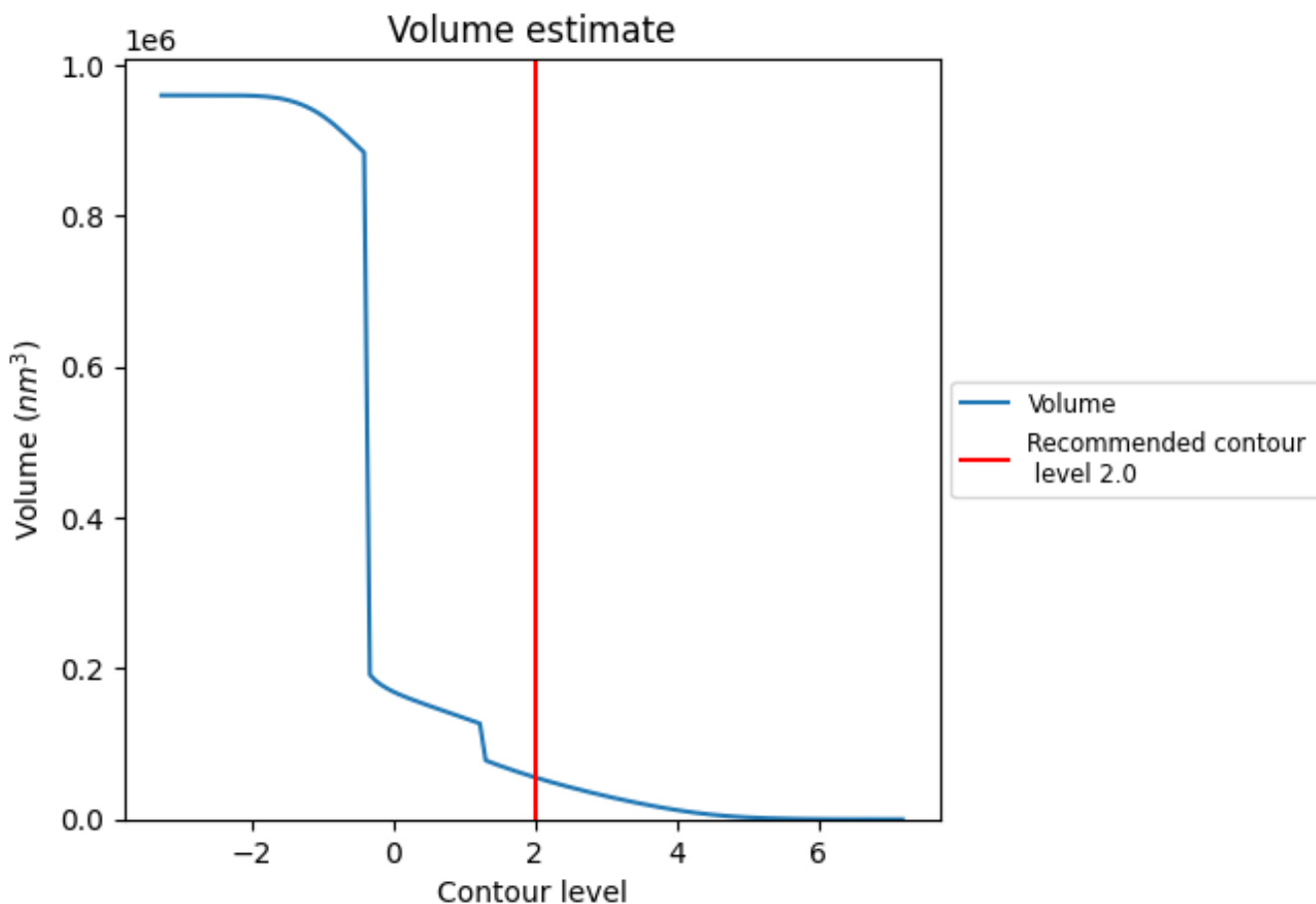
### 7.1 Map-value distribution [i](#)



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



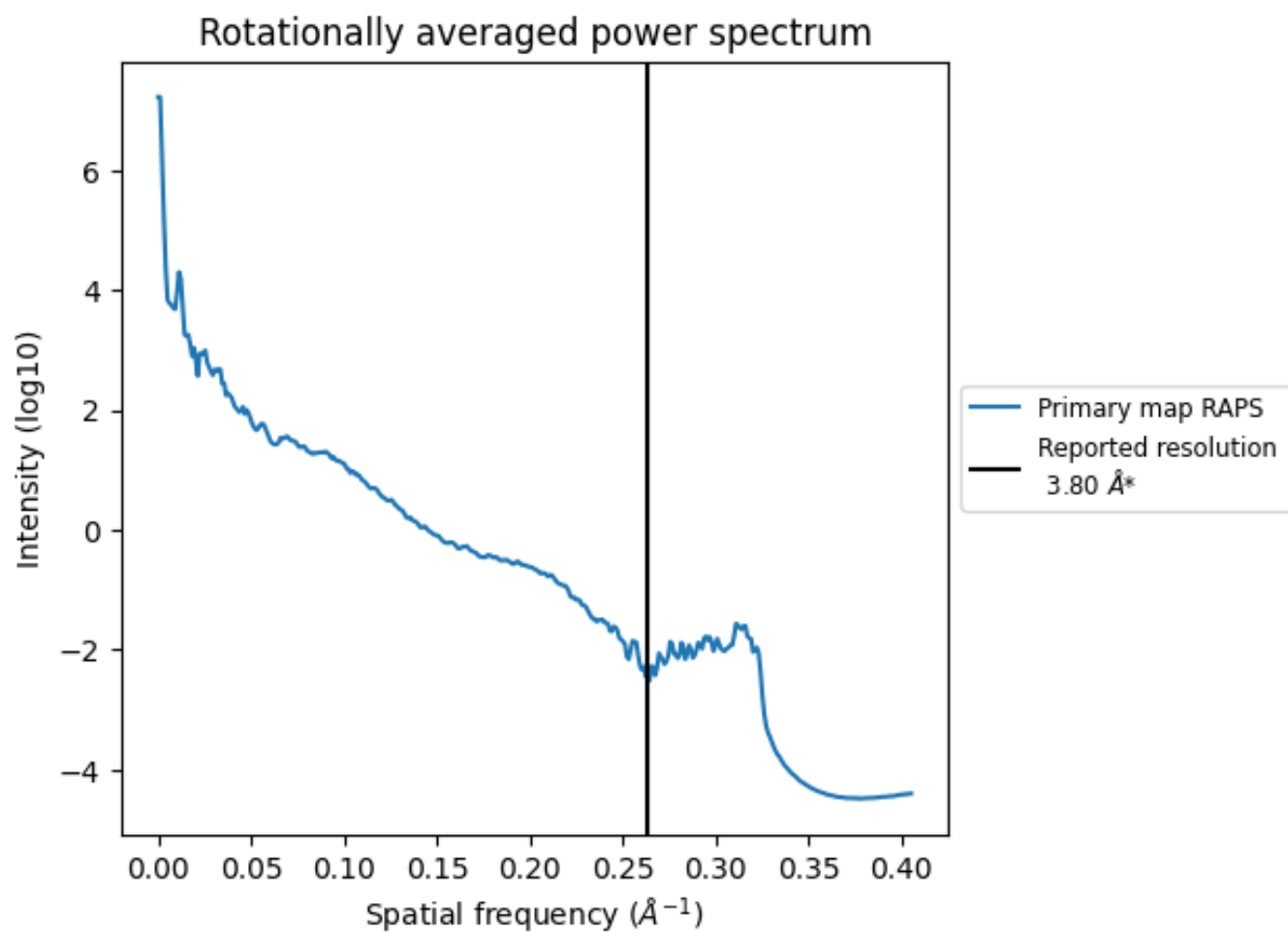
## 7.2 Volume estimate [\(i\)](#)



The volume at the recommended contour level is 55668  $\text{nm}^3$ ; this corresponds to an approximate mass of 50287 kDa.

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

### 7.3 Rotationally averaged power spectrum [i](#)



\*Reported resolution corresponds to spatial frequency of  $0.263 \text{\AA}^{-1}$

## 8 Fourier-Shell correlation

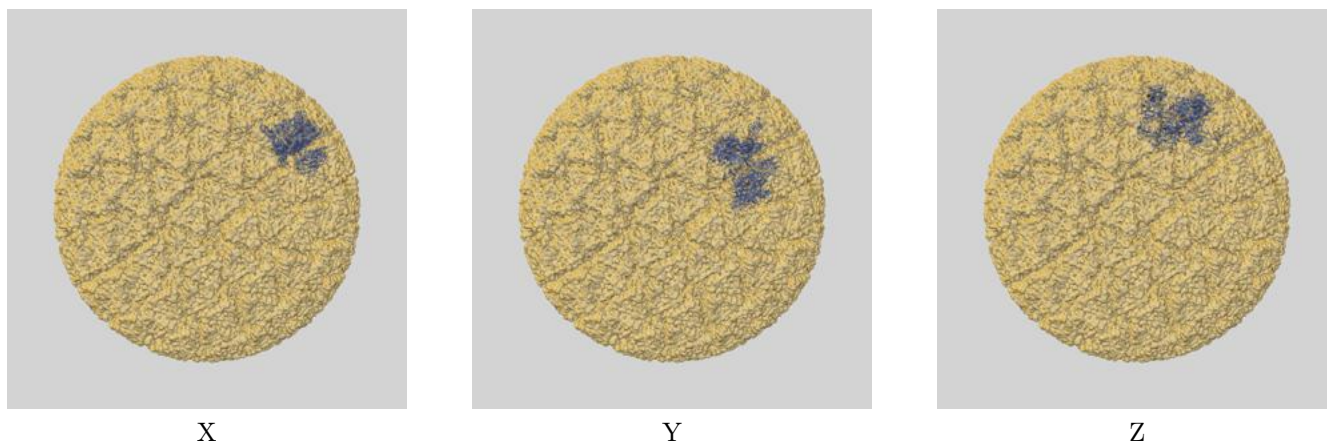
This section was not generated. No FSC curve or half-maps provided.

## 9 Map-model fit [i](#)

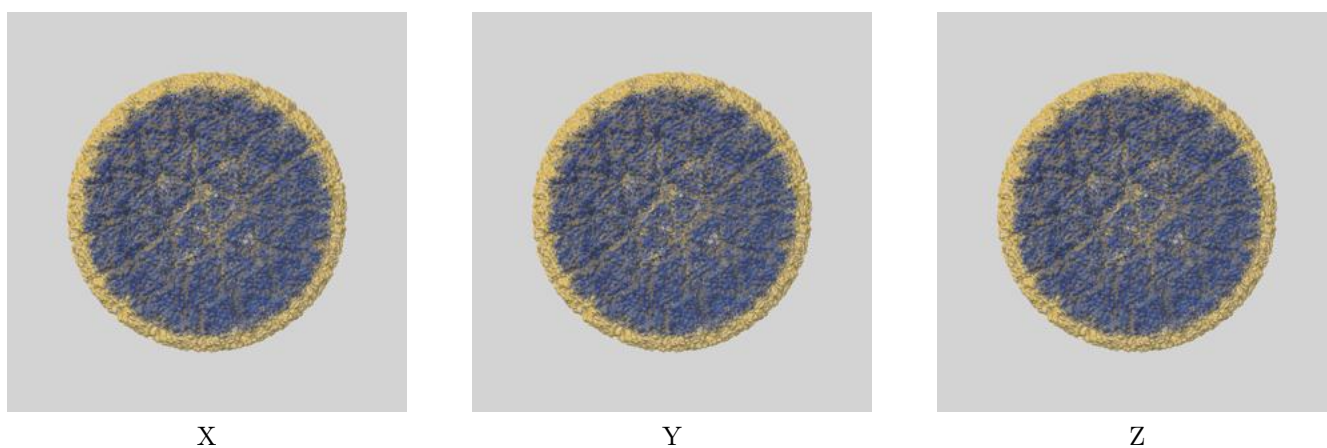
This section contains information regarding the fit between EMDB map EMD-1571 and PDB model 3GZU. Per-residue inclusion information can be found in section 3 on page 6.

### 9.1 Map-model overlays

#### 9.1.1 Map-model overlay [i](#)

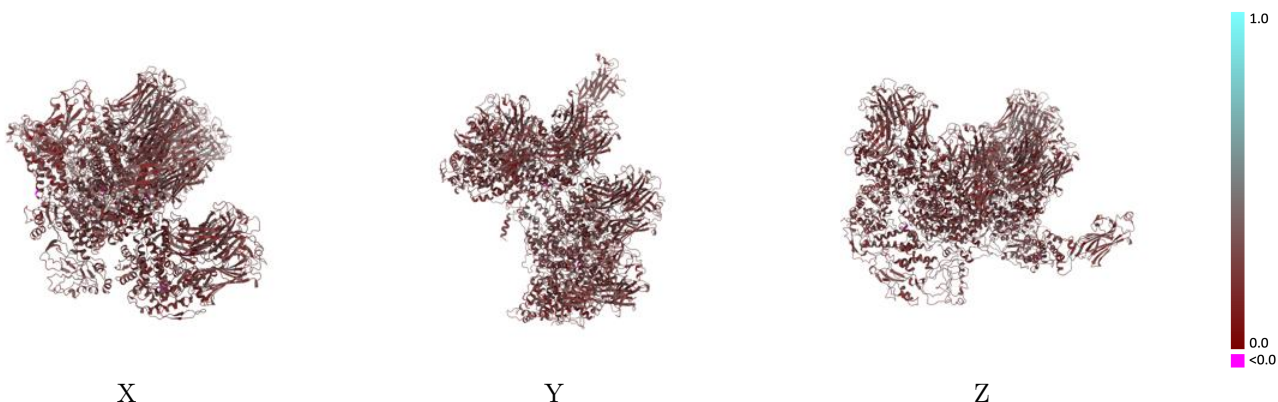


#### 9.1.2 Map-model assembly overlay [i](#)



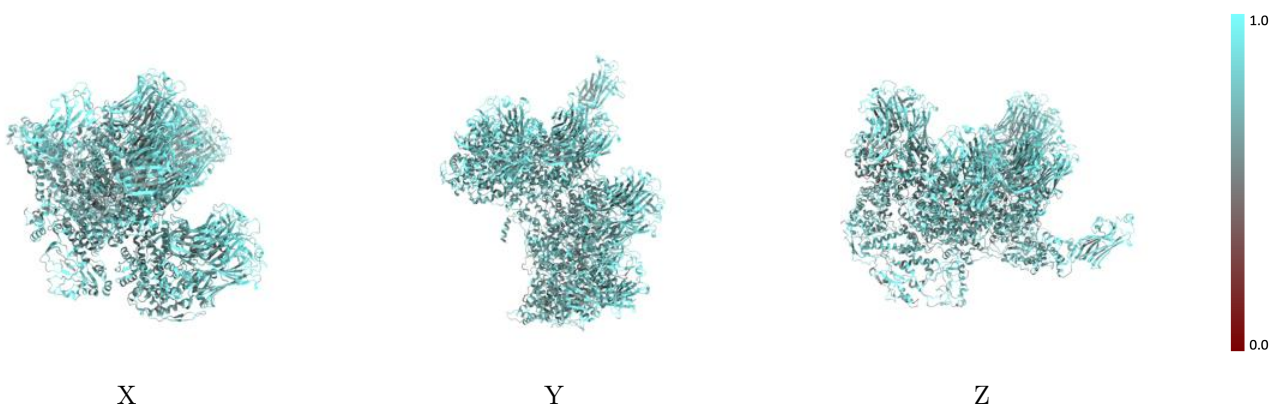
The images above show the 3D surface view of the map at the recommended contour level 2.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

## 9.2 Q-score mapped to coordinate model [i](#)



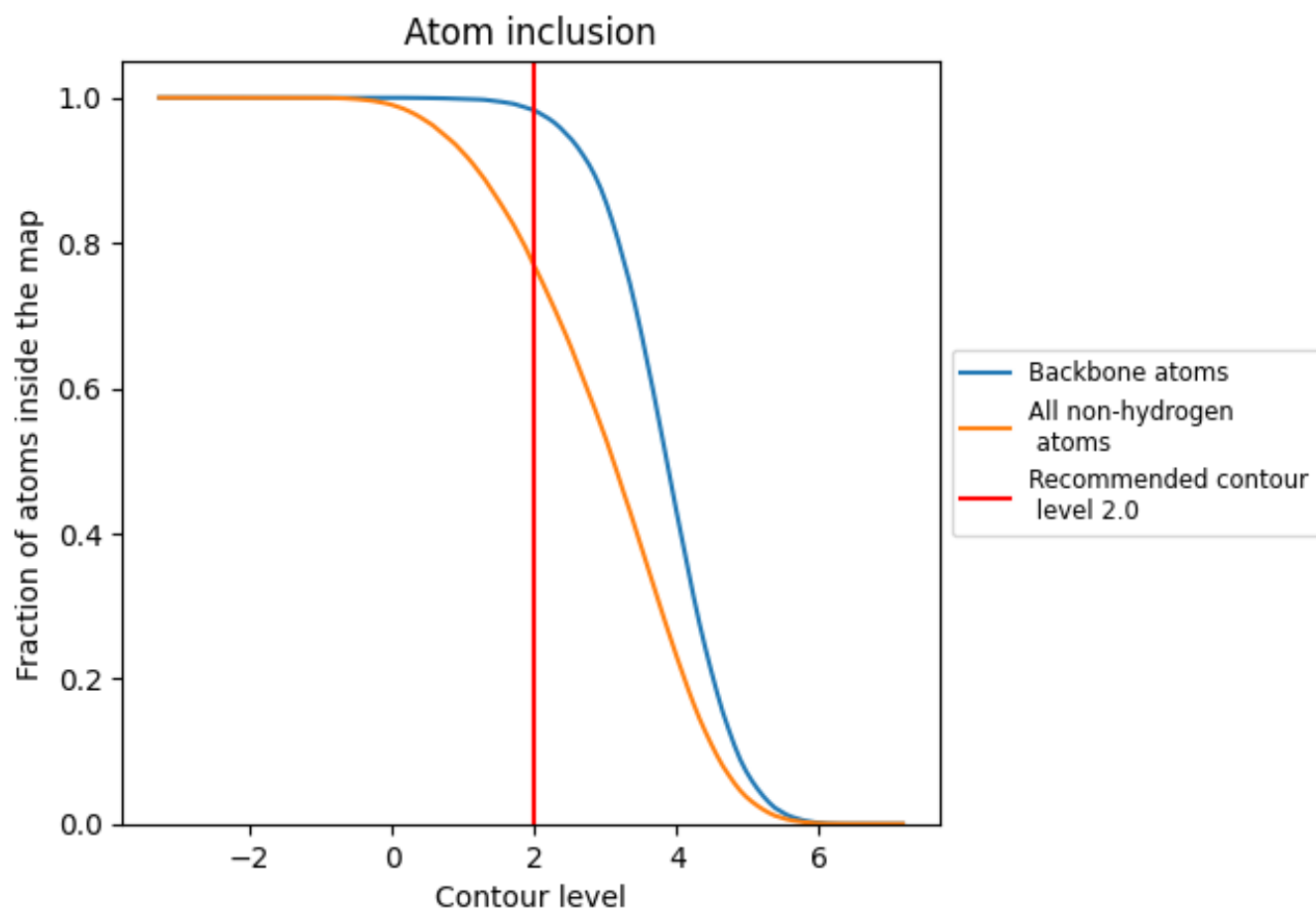
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

## 9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (2.0).

































## 9.4 Atom inclusion [i](#)



At the recommended contour level, 98% of all backbone atoms, 77% of all non-hydrogen atoms, are inside the map.

## 9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (2.0) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.7684	 0.2730
A	 0.7461	 0.2740
B	 0.7553	 0.2810
C	 0.7859	 0.2730
D	 0.7861	 0.2750
E	 0.7926	 0.2730
F	 0.7328	 0.2720
G	 0.7355	 0.2630
H	 0.7386	 0.2770
I	 0.7848	 0.2640
J	 0.7939	 0.2660
K	 0.7880	 0.2740
L	 0.7864	 0.2730
M	 0.7748	 0.2680
N	 0.7820	 0.2700
O	 0.7794	 0.2770

