Full wwPDB EM Validation Report ⓘ

Apr 30, 2025 – 10:16 AM EDT

PDB ID	:	9O6S / pdb_00009o6s
EMDB ID	:	EMD-70179
Title	:	Structure of the human prohibitin complex in the closed state
Authors	:	Rose, K.; Herrmann, E.; Hurley, J.H.
Deposited on	:	2025-04-14
Resolution	:	21.00 Å(reported)
Based on initial model	:	.

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

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

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

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

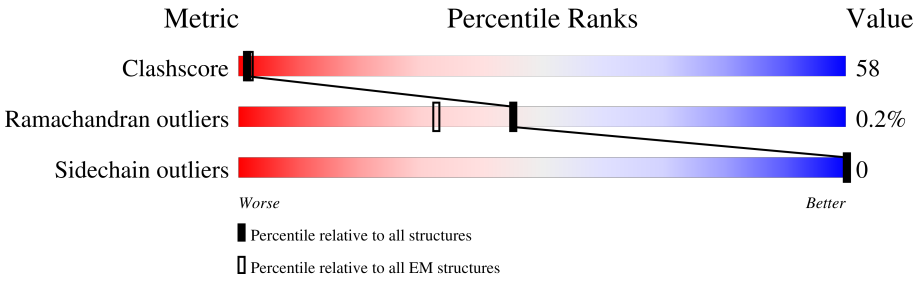
EMDB validation analysis	:	0.0.1.dev118
MolProbity	:	4-5-2 with Phenix2.0rc1
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.43.1

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 21.00 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	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

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

Mol	Chain	Length	Quality of chain
1	A	299	44% 54%
1	C	299	45% 53%
1	E	299	45% 53%
1	G	299	47% 51%
1	I	299	45% 53%
1	K	299	45% 52%
1	M	299	43% 55%
1	O	299	48% 49%

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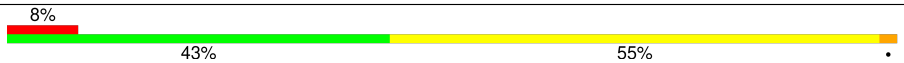
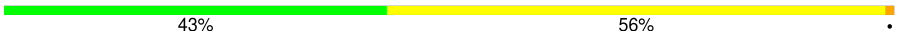
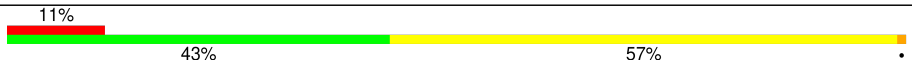
Mol	Chain	Length	Quality of chain
1	Q	299	
1	S	299	
1	U	299	
1	W	299	
2	B	272	
2	D	272	
2	F	272	
2	H	272	
2	J	272	
2	L	272	
2	N	272	
2	P	272	
2	R	272	
2	T	272	
2	V	272	
2	X	272	

2 Entry composition (i)

There are 2 unique types of molecules in this entry. The entry contains 53376 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 Prohibitin-2.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	299	Total	C	N	O	S	0	0
			2345	1477	428	435	5		
1	C	299	Total	C	N	O	S	0	0
			2345	1477	428	435	5		
1	E	299	Total	C	N	O	S	0	0
			2345	1477	428	435	5		
1	G	299	Total	C	N	O	S	0	0
			2345	1477	428	435	5		
1	I	299	Total	C	N	O	S	0	0
			2345	1477	428	435	5		
1	K	299	Total	C	N	O	S	0	0
			2345	1477	428	435	5		
1	M	299	Total	C	N	O	S	0	0
			2345	1477	428	435	5		
1	O	299	Total	C	N	O	S	0	0
			2345	1477	428	435	5		
1	Q	299	Total	C	N	O	S	0	0
			2345	1477	428	435	5		
1	S	299	Total	C	N	O	S	0	0
			2345	1477	428	435	5		
1	U	299	Total	C	N	O	S	0	0
			2345	1477	428	435	5		
1	W	299	Total	C	N	O	S	0	0
			2345	1477	428	435	5		

- Molecule 2 is a protein called Prohibitin 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	272	Total	C	N	O	S	0	0
			2103	1331	370	400	2		
2	D	272	Total	C	N	O	S	0	0
			2103	1331	370	400	2		
2	F	272	Total	C	N	O	S	0	0
			2103	1331	370	400	2		

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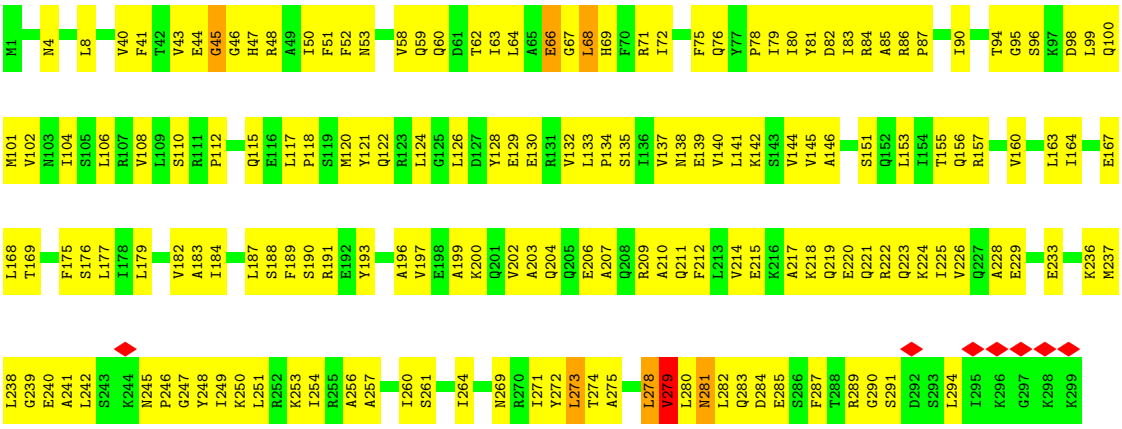
Mol	Chain	Residues	Atoms					AltConf	Trace
2	H	272	Total	C	N	O	S	0	0
			2103	1331	370	400	2		
2	J	272	Total	C	N	O	S	0	0
			2103	1331	370	400	2		
2	L	272	Total	C	N	O	S	0	0
			2103	1331	370	400	2		
2	N	272	Total	C	N	O	S	0	0
			2103	1331	370	400	2		
2	P	272	Total	C	N	O	S	0	0
			2103	1331	370	400	2		
2	R	272	Total	C	N	O	S	0	0
			2103	1331	370	400	2		
2	T	272	Total	C	N	O	S	0	0
			2103	1331	370	400	2		
2	V	272	Total	C	N	O	S	0	0
			2103	1331	370	400	2		
2	X	272	Total	C	N	O	S	0	0
			2103	1331	370	400	2		

3 Residue-property plots (i)

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

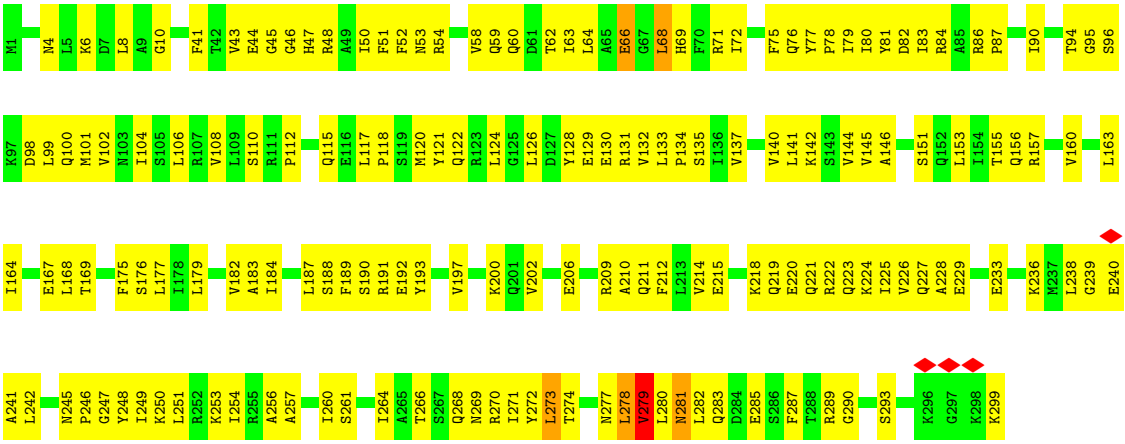
• Molecule 1: Prohibitin-2

Chain A:



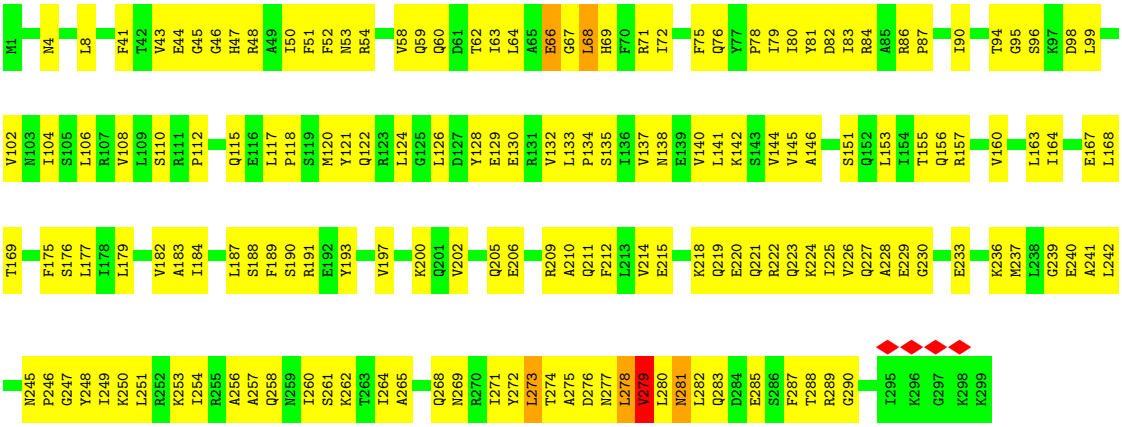
• Molecule 1: Prohibitin-2

Chain C:



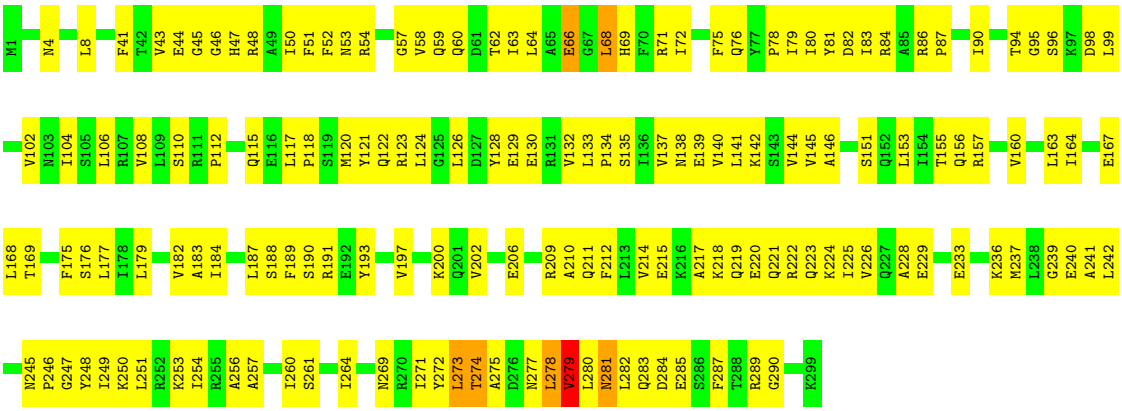
• Molecule 1: Prohibitin-2

Chain E:



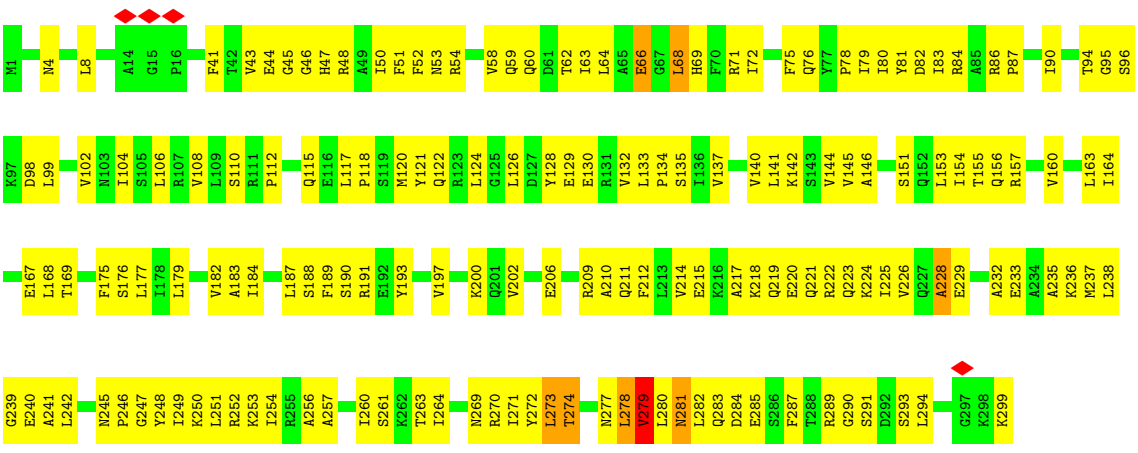
• Molecule 1: Prohibitin-2

Chain G:



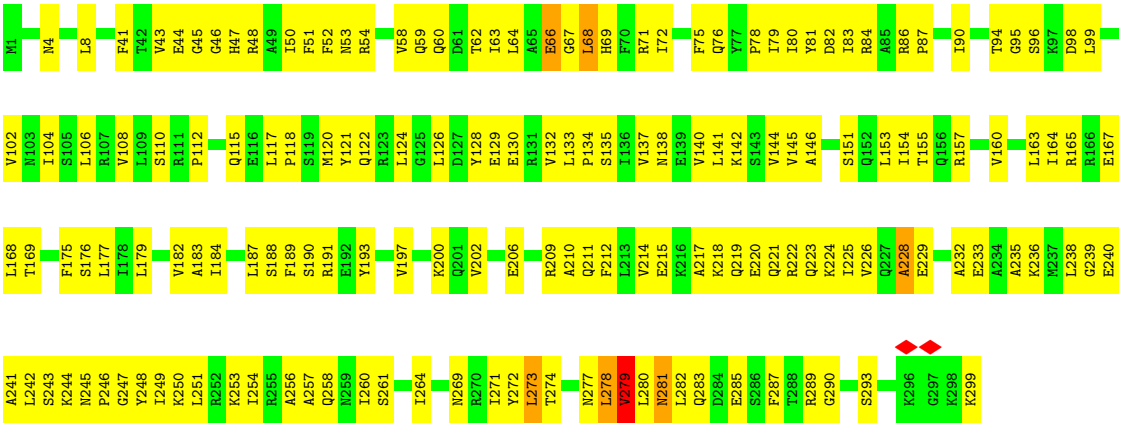
• Molecule 1: Prohibitin-2

Chain I:



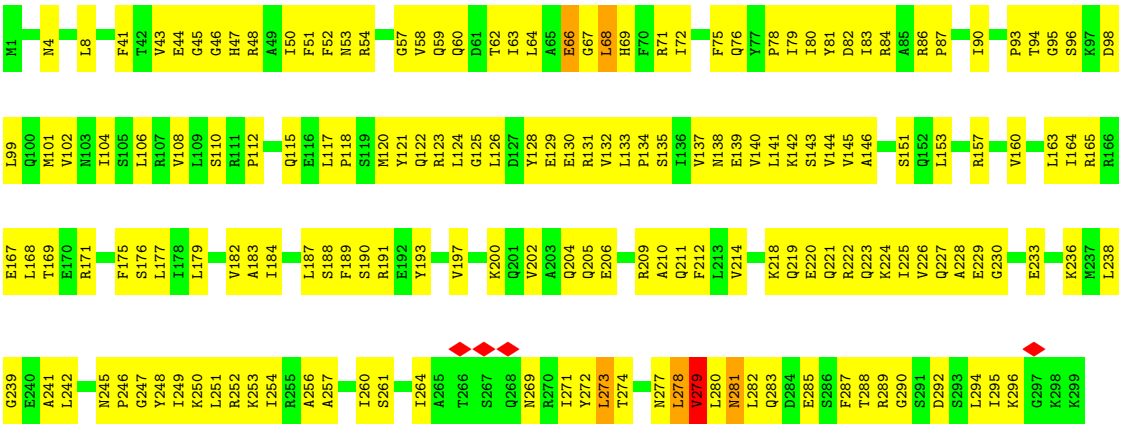
• Molecule 1: Prohibitin-2

Chain K:



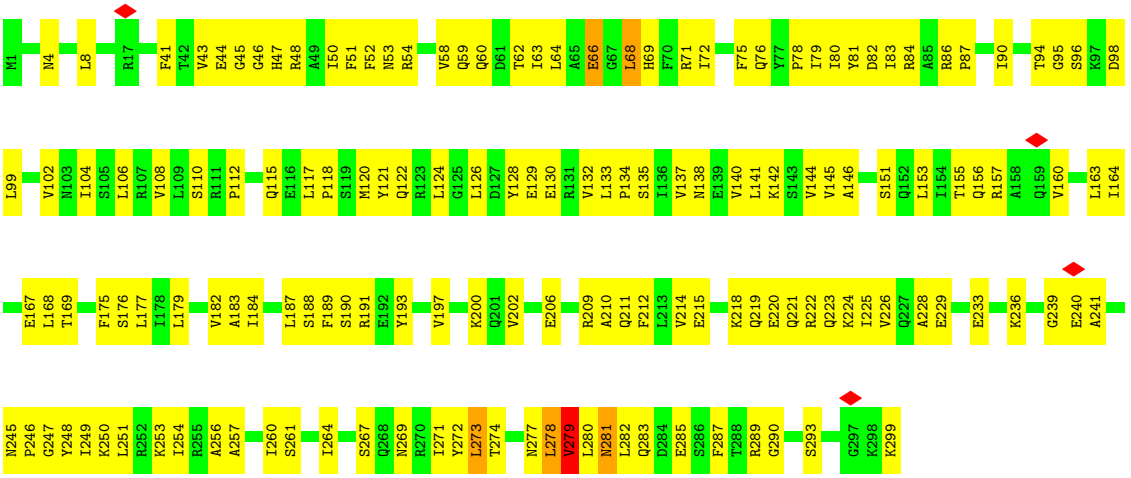
• Molecule 1: Prohibitin-2

Chain M:



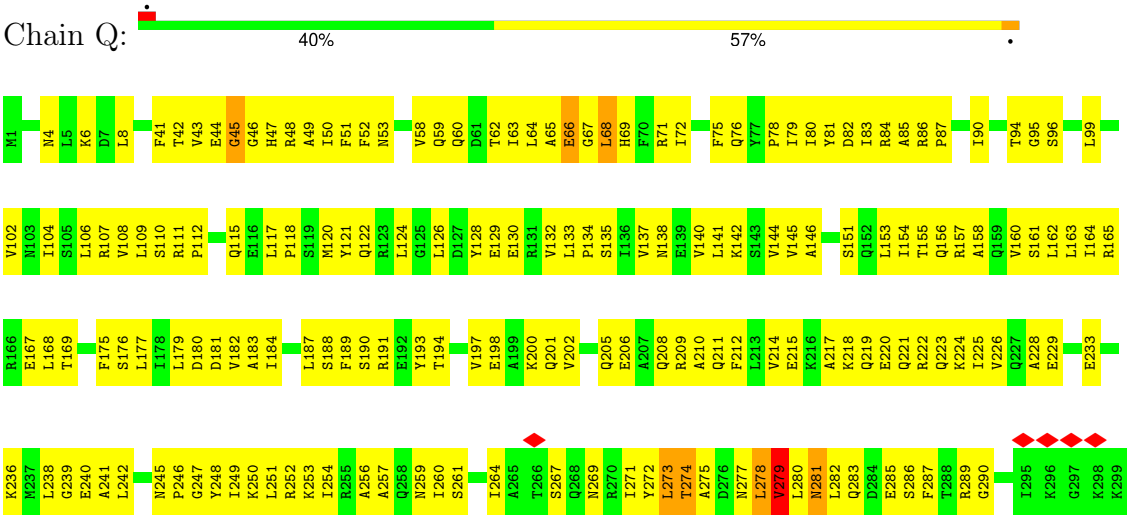
• Molecule 1: Prohibitin-2

Chain O:



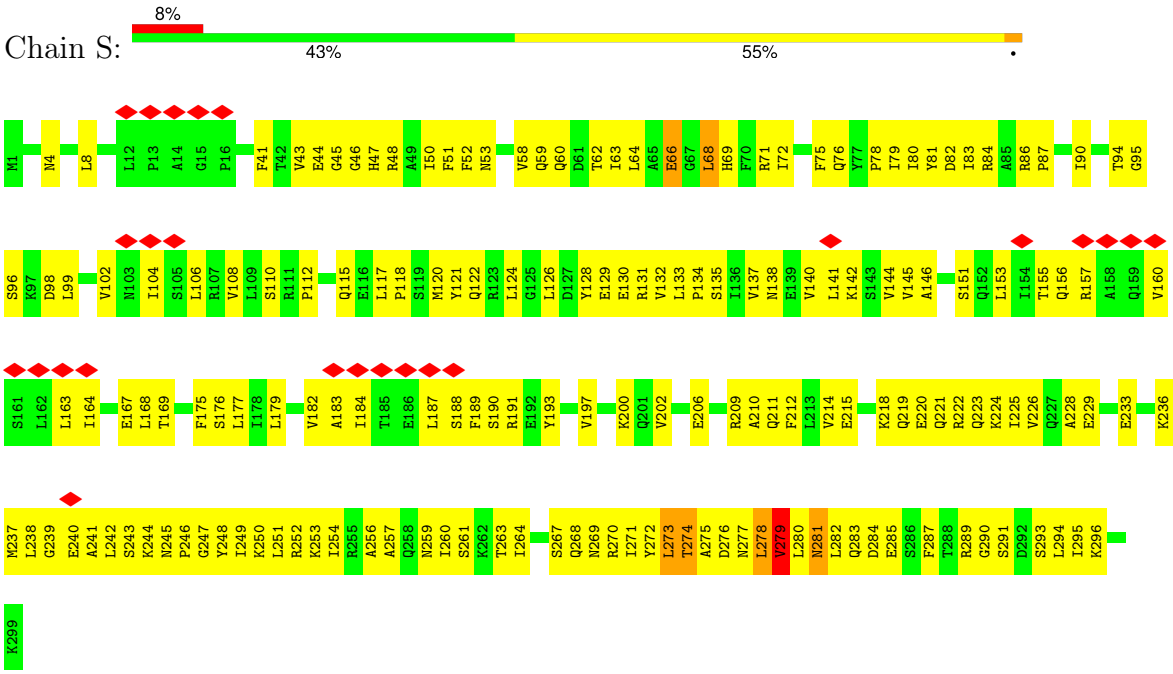
• Molecule 1: Prohibitin-2

Chain Q:



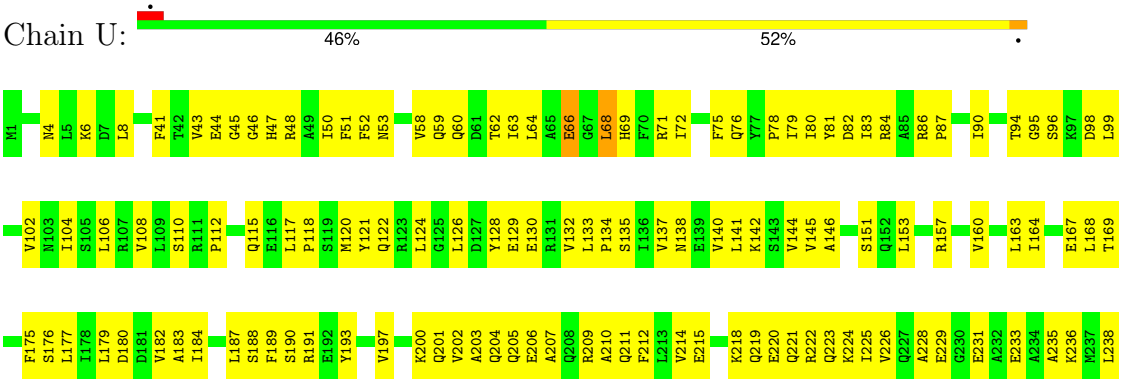
• Molecule 1: Prohibitin-2

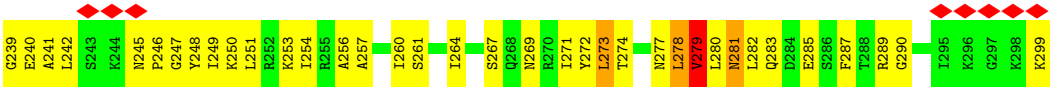
Chain S:



• Molecule 1: Prohibitin-2

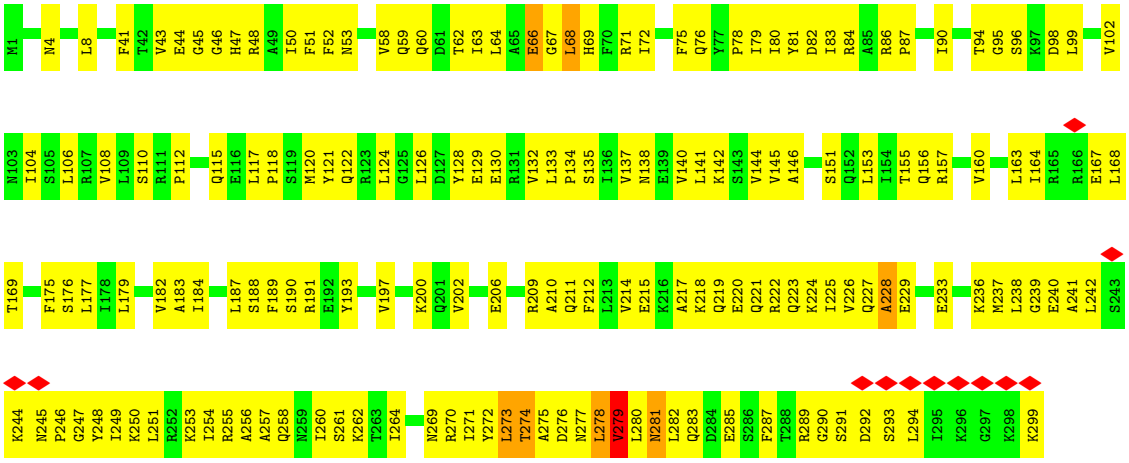
Chain U:





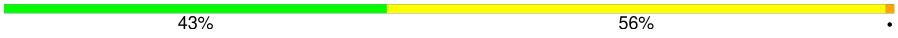
• Molecule 1: Prohibitin-2

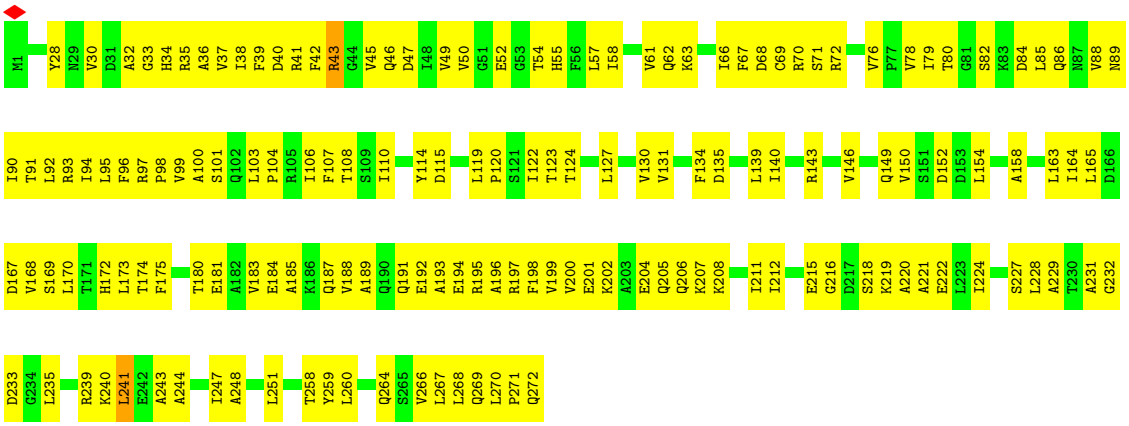
Chain W:



• Molecule 2: Prohibitin 1

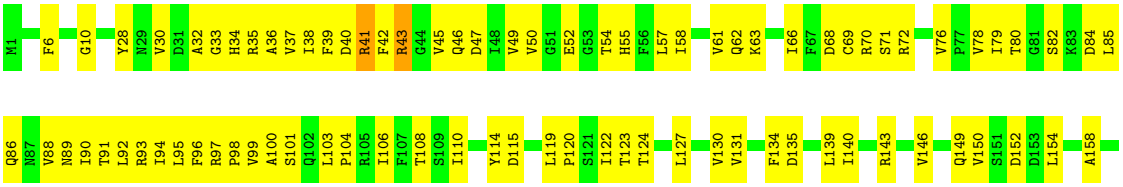
Chain B:

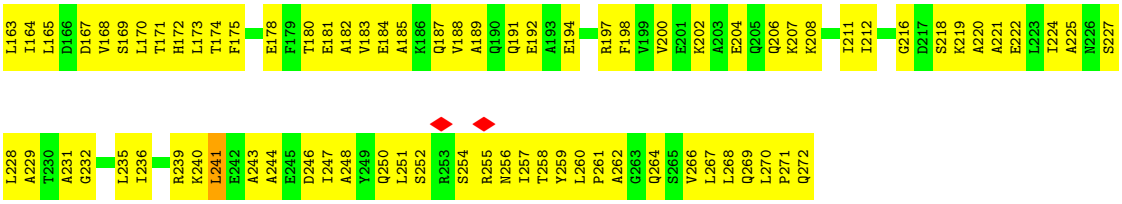




• Molecule 2: Prohibitin 1

Chain D:



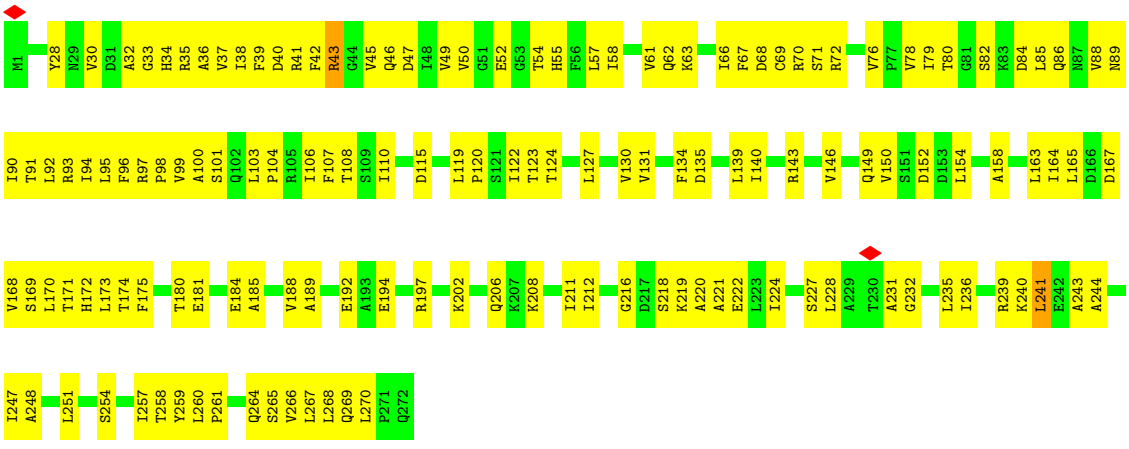


• Molecule 2: Prohibitin 1

Chain F:

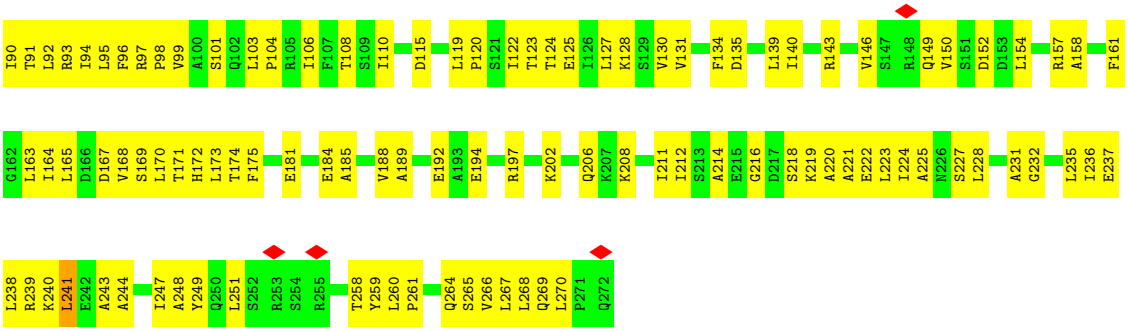
• Molecule 2: Prohibitin 1

Chain H:



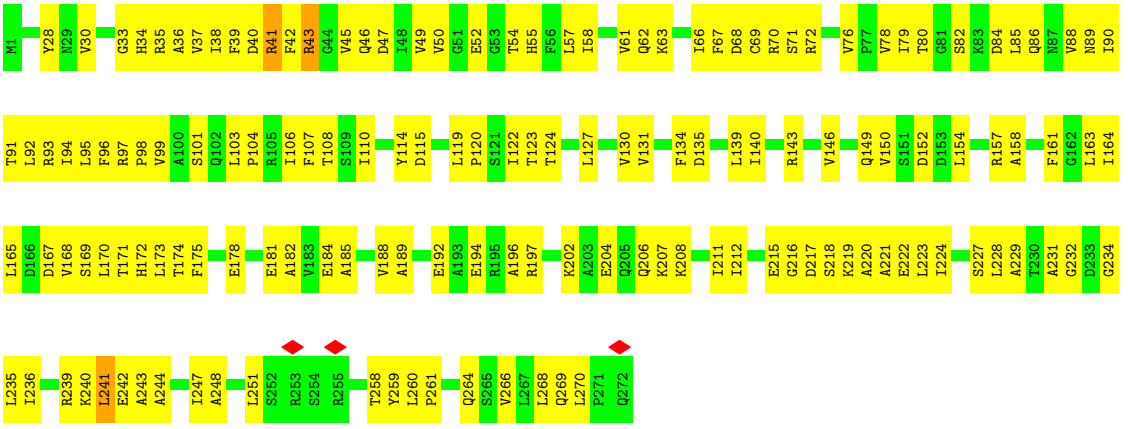
• Molecule 2: Prohibitin 1

Chain J:



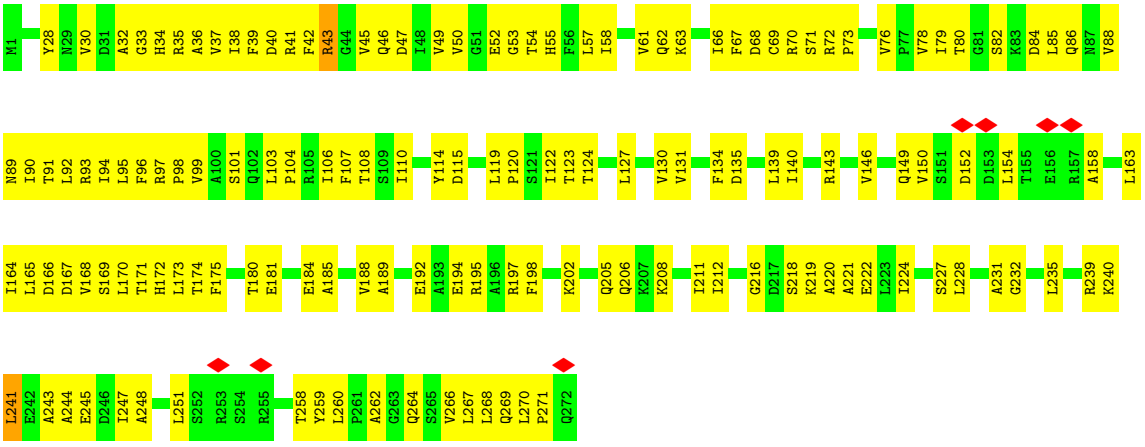
• Molecule 2: Prohibitin 1

Chain L:



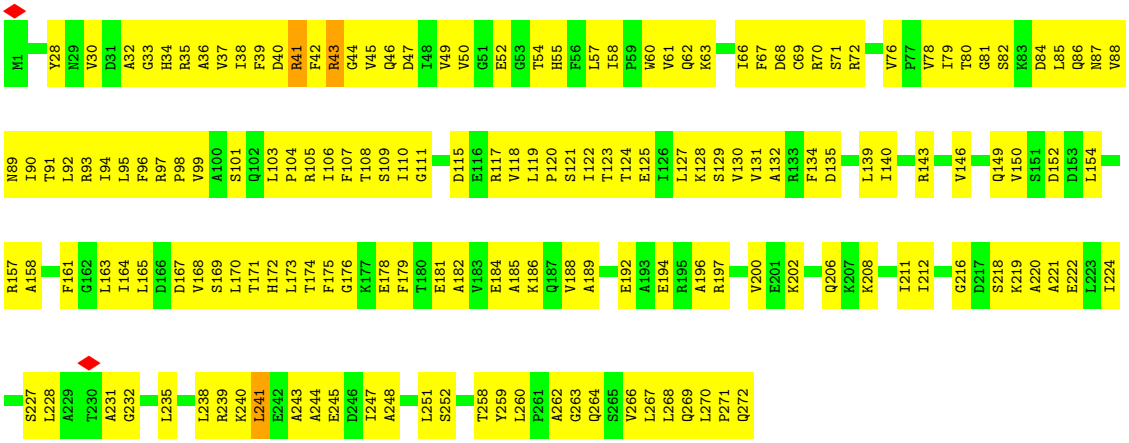
• Molecule 2: Prohibitin 1

Chain N:



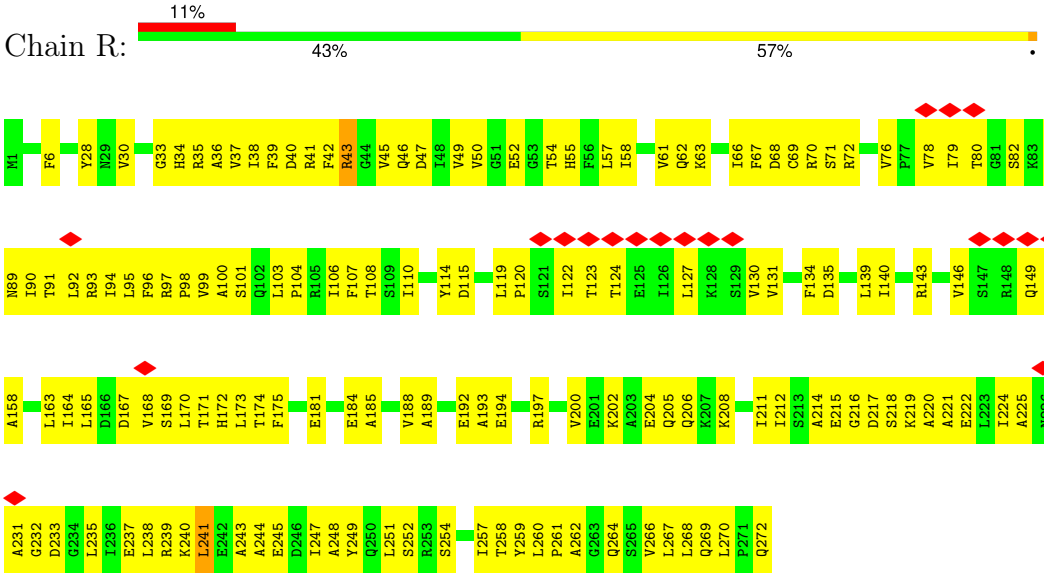
• Molecule 2: Prohibitin 1

Chain P:



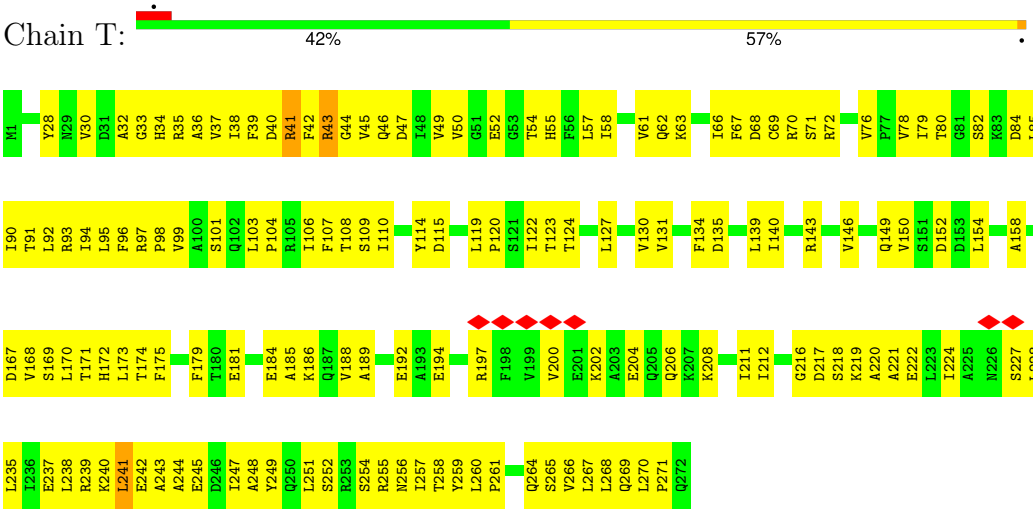
• Molecule 2: Prohibitin 1

Chain R:



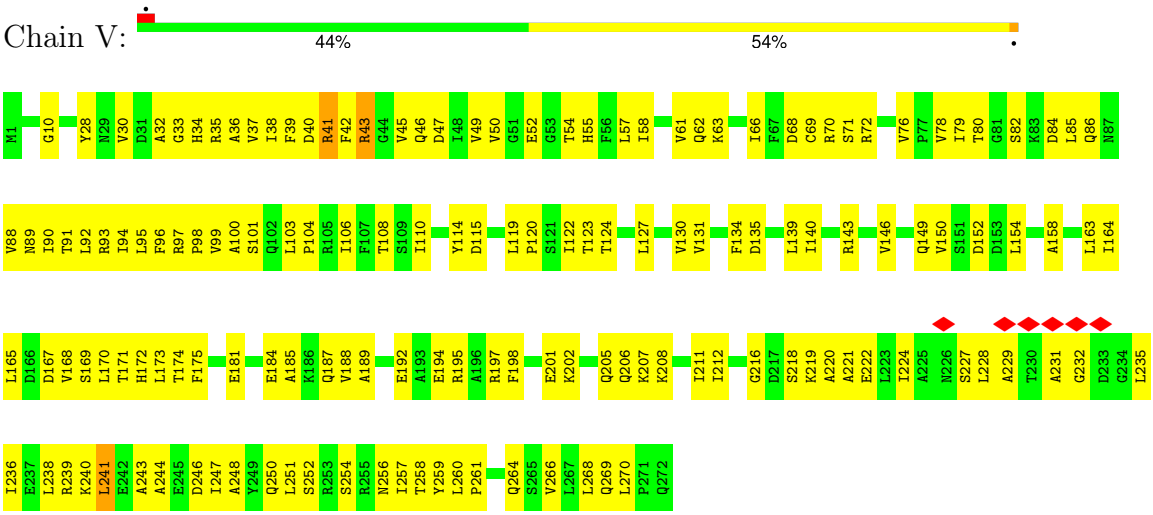
• Molecule 2: Prohibitin 1

Chain T:



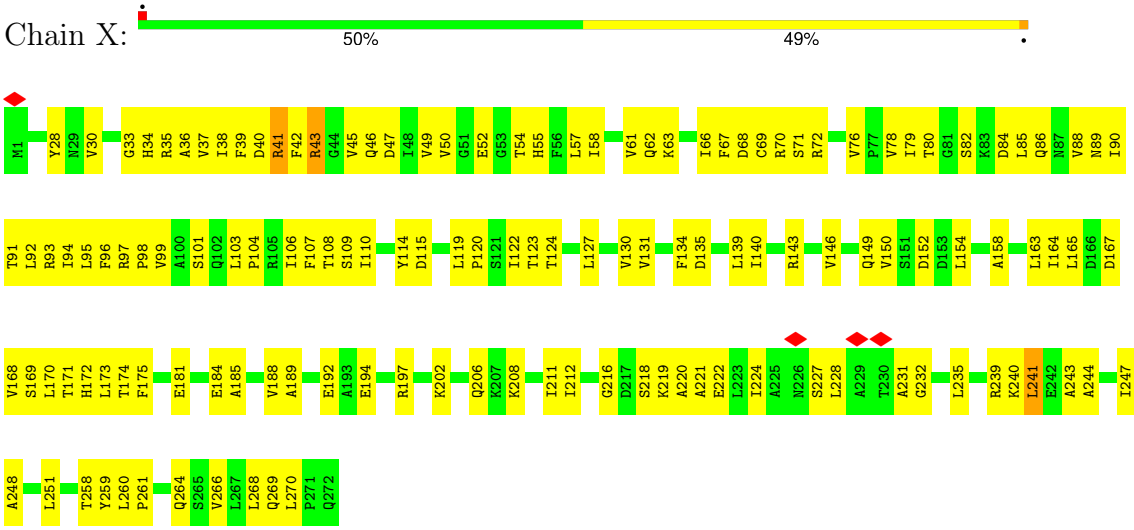
• Molecule 2: Prohibitin 1

Chain V:



• Molecule 2: Prohibitin 1

Chain X:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SUBTOMOGRAM AVERAGING	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of subtomograms used	1156	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS, TFS KRIOS, TFS KRIOS	Depositor
Voltage (kV)	300, 300, 300	Depositor
Electron dose ($e^-/Å^2$)	90, 120, 120	Depositor
Minimum defocus (nm)	2000, 2000, 2000	Depositor
Maximum defocus (nm)	6000, 6000, 6000	Depositor
Magnification	43000, 64000, 42000	Depositor
Image detector	GATAN K3 BIOQUANTUM (6k x 4k), FEI FALCON IV (4k x 4k), GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	0.002	Depositor
Minimum map value	-0.001	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.000	Depositor
Recommended contour level	0.0002	Depositor
Map size (Å)	503.99997, 503.99997, 503.99997	wwPDB
Map dimensions	120, 120, 120	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	4.2, 4.2, 4.2	Depositor

5 Model quality (i)

5.1 Standard geometry (i)

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	0.32	0/2376	0.64	1/3198 (0.0%)
1	C	0.32	0/2376	0.65	1/3198 (0.0%)
1	E	0.32	0/2376	0.64	1/3198 (0.0%)
1	G	0.32	0/2376	0.64	2/3198 (0.1%)
1	I	0.32	0/2376	0.65	2/3198 (0.1%)
1	K	0.32	0/2376	0.64	1/3198 (0.0%)
1	M	0.32	0/2376	0.64	1/3198 (0.0%)
1	O	0.32	0/2376	0.64	1/3198 (0.0%)
1	Q	0.32	0/2376	0.65	2/3198 (0.1%)
1	S	0.32	0/2376	0.65	2/3198 (0.1%)
1	U	0.32	0/2376	0.64	1/3198 (0.0%)
1	W	0.32	0/2376	0.64	2/3198 (0.1%)
2	B	0.43	2/2133 (0.1%)	0.82	3/2887 (0.1%)
2	D	0.43	2/2133 (0.1%)	0.81	3/2887 (0.1%)
2	F	0.43	2/2133 (0.1%)	0.82	4/2887 (0.1%)
2	H	0.43	2/2133 (0.1%)	0.82	3/2887 (0.1%)
2	J	0.43	2/2133 (0.1%)	0.81	3/2887 (0.1%)
2	L	0.43	2/2133 (0.1%)	0.82	3/2887 (0.1%)
2	N	0.43	2/2133 (0.1%)	0.82	3/2887 (0.1%)
2	P	0.43	2/2133 (0.1%)	0.82	3/2887 (0.1%)
2	R	0.43	2/2133 (0.1%)	0.82	3/2887 (0.1%)
2	T	0.43	2/2133 (0.1%)	0.82	4/2887 (0.1%)
2	V	0.43	2/2133 (0.1%)	0.82	4/2887 (0.1%)
2	X	0.43	2/2133 (0.1%)	0.82	3/2887 (0.1%)
All	All	0.38	24/54108 (0.0%)	0.73	56/73020 (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	9

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	C	0	9
1	E	0	9
1	G	0	9
1	I	0	9
1	K	0	9
1	M	0	9
1	O	0	9
1	Q	0	9
1	S	0	9
1	U	0	9
1	W	0	9
2	B	0	1
2	D	0	1
2	F	0	1
2	H	0	1
2	J	0	1
2	L	0	1
2	N	0	1
2	P	0	1
2	R	0	1
2	T	0	1
2	V	0	1
2	X	0	1
All	All	0	120

All (24) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	N	43	ARG	CB-CG	11.44	1.86	1.52
2	J	43	ARG	CB-CG	11.43	1.86	1.52
2	L	43	ARG	CB-CG	11.42	1.86	1.52
2	T	43	ARG	CB-CG	11.42	1.86	1.52
2	R	43	ARG	CB-CG	11.41	1.86	1.52
2	D	43	ARG	CB-CG	11.41	1.86	1.52
2	F	43	ARG	CB-CG	11.41	1.86	1.52
2	V	43	ARG	CB-CG	11.40	1.86	1.52
2	B	43	ARG	CB-CG	11.40	1.86	1.52
2	P	43	ARG	CB-CG	11.39	1.86	1.52
2	H	43	ARG	CB-CG	11.39	1.86	1.52
2	X	43	ARG	CB-CG	11.38	1.86	1.52
2	X	41	ARG	CG-CD	6.04	1.70	1.52
2	N	41	ARG	CG-CD	6.03	1.70	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	D	41	ARG	CG-CD	6.02	1.70	1.52
2	R	41	ARG	CG-CD	6.02	1.70	1.52
2	H	41	ARG	CG-CD	6.01	1.70	1.52
2	T	41	ARG	CG-CD	6.01	1.70	1.52
2	F	41	ARG	CG-CD	6.00	1.70	1.52
2	L	41	ARG	CG-CD	6.00	1.70	1.52
2	P	41	ARG	CG-CD	6.00	1.70	1.52
2	V	41	ARG	CG-CD	6.00	1.70	1.52
2	B	41	ARG	CG-CD	6.00	1.70	1.52
2	J	41	ARG	CG-CD	5.99	1.70	1.52

All (56) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	V	43	ARG	CB-CG-CD	17.92	152.51	111.30
2	D	43	ARG	CB-CG-CD	17.92	152.51	111.30
2	L	43	ARG	CB-CG-CD	17.91	152.49	111.30
2	P	43	ARG	CB-CG-CD	17.91	152.49	111.30
2	X	43	ARG	CB-CG-CD	17.91	152.48	111.30
2	F	43	ARG	CB-CG-CD	17.90	152.47	111.30
2	B	43	ARG	CB-CG-CD	17.90	152.47	111.30
2	N	43	ARG	CB-CG-CD	17.90	152.47	111.30
2	R	43	ARG	CB-CG-CD	17.90	152.47	111.30
2	H	43	ARG	CB-CG-CD	17.89	152.46	111.30
2	J	43	ARG	CB-CG-CD	17.89	152.45	111.30
2	T	43	ARG	CB-CG-CD	17.89	152.44	111.30
2	H	43	ARG	CA-CB-CG	16.72	147.53	114.10
2	B	43	ARG	CA-CB-CG	16.70	147.50	114.10
2	P	43	ARG	CA-CB-CG	16.70	147.49	114.10
2	R	43	ARG	CA-CB-CG	16.70	147.49	114.10
2	D	43	ARG	CA-CB-CG	16.69	147.49	114.10
2	X	43	ARG	CA-CB-CG	16.69	147.49	114.10
2	J	43	ARG	CA-CB-CG	16.69	147.48	114.10
2	T	43	ARG	CA-CB-CG	16.69	147.48	114.10
2	L	43	ARG	CA-CB-CG	16.69	147.48	114.10
2	F	43	ARG	CA-CB-CG	16.68	147.47	114.10
2	N	43	ARG	CA-CB-CG	16.68	147.46	114.10
2	V	43	ARG	CA-CB-CG	16.68	147.46	114.10
2	X	43	ARG	CG-CD-NE	12.05	138.51	112.00
2	J	43	ARG	CG-CD-NE	12.05	138.50	112.00
2	P	43	ARG	CG-CD-NE	12.05	138.50	112.00
2	H	43	ARG	CG-CD-NE	12.04	138.50	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	N	43	ARG	CG-CD-NE	12.04	138.49	112.00
2	F	43	ARG	CG-CD-NE	12.04	138.49	112.00
2	V	43	ARG	CG-CD-NE	12.04	138.48	112.00
2	R	43	ARG	CG-CD-NE	12.04	138.48	112.00
2	B	43	ARG	CG-CD-NE	12.03	138.47	112.00
2	L	43	ARG	CG-CD-NE	12.03	138.47	112.00
2	T	43	ARG	CG-CD-NE	12.03	138.46	112.00
2	D	43	ARG	CG-CD-NE	12.02	138.44	112.00
1	W	68	LEU	CA-CB-CG	5.96	137.17	116.30
1	M	68	LEU	CA-CB-CG	5.96	137.16	116.30
1	Q	68	LEU	CA-CB-CG	5.96	137.15	116.30
1	C	68	LEU	CA-CB-CG	5.96	137.15	116.30
1	G	68	LEU	CA-CB-CG	5.96	137.15	116.30
1	I	68	LEU	CA-CB-CG	5.96	137.15	116.30
1	S	68	LEU	CA-CB-CG	5.95	137.14	116.30
1	U	68	LEU	CA-CB-CG	5.95	137.13	116.30
1	A	68	LEU	CA-CB-CG	5.95	137.13	116.30
1	O	68	LEU	CA-CB-CG	5.95	137.12	116.30
1	K	68	LEU	CA-CB-CG	5.95	137.11	116.30
1	E	68	LEU	CA-CB-CG	5.94	137.09	116.30
1	Q	274	THR	N-CA-C	5.03	115.02	108.07
1	I	274	THR	N-CA-C	5.03	115.01	108.07
1	S	274	THR	N-CA-C	5.01	114.99	108.07
1	W	274	THR	N-CA-C	5.01	114.99	108.07
2	F	41	ARG	CA-CB-CG	5.01	124.11	114.10
1	G	274	THR	N-CA-C	5.01	114.98	108.07
2	T	41	ARG	CA-CB-CG	5.00	124.11	114.10
2	V	41	ARG	CA-CB-CG	5.00	124.11	114.10

There are no chirality outliers.

All (120) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	190	SER	Peptide
1	A	191	ARG	Peptide
1	A	228	ALA	Peptide
1	A	273	LEU	Peptide
1	A	278	LEU	Peptide
1	A	279	VAL	Peptide
1	A	281	ASN	Peptide
1	A	45	GLY	Peptide
1	A	66	GLU	Peptide

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Mol	Chain	Res	Type	Group
2	B	241	LEU	Peptide
1	C	190	SER	Peptide
1	C	191	ARG	Peptide
1	C	228	ALA	Peptide
1	C	273	LEU	Peptide
1	C	278	LEU	Peptide
1	C	279	VAL	Peptide
1	C	281	ASN	Peptide
1	C	45	GLY	Peptide
1	C	66	GLU	Peptide
2	D	241	LEU	Peptide
1	E	190	SER	Peptide
1	E	191	ARG	Peptide
1	E	228	ALA	Peptide
1	E	273	LEU	Peptide
1	E	278	LEU	Peptide
1	E	279	VAL	Peptide
1	E	281	ASN	Peptide
1	E	45	GLY	Peptide
1	E	66	GLU	Peptide
2	F	241	LEU	Peptide
1	G	190	SER	Peptide
1	G	191	ARG	Peptide
1	G	228	ALA	Peptide
1	G	273	LEU	Peptide
1	G	278	LEU	Peptide
1	G	279	VAL	Peptide
1	G	281	ASN	Peptide
1	G	45	GLY	Peptide
1	G	66	GLU	Peptide
2	H	241	LEU	Peptide
1	I	190	SER	Peptide
1	I	191	ARG	Peptide
1	I	228	ALA	Peptide
1	I	273	LEU	Peptide
1	I	278	LEU	Peptide
1	I	279	VAL	Peptide
1	I	281	ASN	Peptide
1	I	45	GLY	Peptide
1	I	66	GLU	Peptide
2	J	241	LEU	Peptide
1	K	190	SER	Peptide

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Mol	Chain	Res	Type	Group
1	K	191	ARG	Peptide
1	K	228	ALA	Peptide
1	K	273	LEU	Peptide
1	K	278	LEU	Peptide
1	K	279	VAL	Peptide
1	K	281	ASN	Peptide
1	K	45	GLY	Peptide
1	K	66	GLU	Peptide
2	L	241	LEU	Peptide
1	M	190	SER	Peptide
1	M	191	ARG	Peptide
1	M	228	ALA	Peptide
1	M	273	LEU	Peptide
1	M	278	LEU	Peptide
1	M	279	VAL	Peptide
1	M	281	ASN	Peptide
1	M	45	GLY	Peptide
1	M	66	GLU	Peptide
2	N	241	LEU	Peptide
1	O	190	SER	Peptide
1	O	191	ARG	Peptide
1	O	228	ALA	Peptide
1	O	273	LEU	Peptide
1	O	278	LEU	Peptide
1	O	279	VAL	Peptide
1	O	281	ASN	Peptide
1	O	45	GLY	Peptide
1	O	66	GLU	Peptide
2	P	241	LEU	Peptide
1	Q	190	SER	Peptide
1	Q	191	ARG	Peptide
1	Q	228	ALA	Peptide
1	Q	273	LEU	Peptide
1	Q	278	LEU	Peptide
1	Q	279	VAL	Peptide
1	Q	281	ASN	Peptide
1	Q	45	GLY	Peptide
1	Q	66	GLU	Peptide
2	R	241	LEU	Peptide
1	S	190	SER	Peptide
1	S	191	ARG	Peptide
1	S	228	ALA	Peptide

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Mol	Chain	Res	Type	Group
1	S	273	LEU	Peptide
1	S	278	LEU	Peptide
1	S	279	VAL	Peptide
1	S	281	ASN	Peptide
1	S	45	GLY	Peptide
1	S	66	GLU	Peptide
2	T	241	LEU	Peptide
1	U	190	SER	Peptide
1	U	191	ARG	Peptide
1	U	228	ALA	Peptide
1	U	273	LEU	Peptide
1	U	278	LEU	Peptide
1	U	279	VAL	Peptide
1	U	281	ASN	Peptide
1	U	45	GLY	Peptide
1	U	66	GLU	Peptide
2	V	241	LEU	Peptide
1	W	190	SER	Peptide
1	W	191	ARG	Peptide
1	W	228	ALA	Peptide
1	W	273	LEU	Peptide
1	W	278	LEU	Peptide
1	W	279	VAL	Peptide
1	W	281	ASN	Peptide
1	W	45	GLY	Peptide
1	W	66	GLU	Peptide
2	X	241	LEU	Peptide

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	2345	0	2434	349	0
1	C	2345	0	2434	317	0
1	E	2345	0	2434	381	0
1	G	2345	0	2434	283	0
1	I	2345	0	2434	285	0
1	K	2345	0	2434	357	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	M	2345	0	2434	411	0
1	O	2345	0	2434	204	0
1	Q	2345	0	2434	604	0
1	S	2345	0	2434	411	0
1	U	2345	0	2434	298	0
1	W	2345	0	2434	363	0
2	B	2103	0	2150	339	0
2	D	2103	0	2150	446	0
2	F	2103	0	2150	211	0
2	H	2103	0	2150	262	0
2	J	2103	0	2150	335	0
2	L	2103	0	2150	286	0
2	N	2103	0	2150	336	0
2	P	2103	0	2150	549	0
2	R	2103	0	2150	349	0
2	T	2103	0	2150	359	0
2	V	2103	0	2150	330	0
2	X	2103	0	2150	235	0
All	All	53376	0	55008	6267	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 58.

All (6267) 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)
2:H:43:ARG:CB	2:H:43:ARG:CG	1.86	1.54
2:L:43:ARG:CG	2:L:43:ARG:CB	1.86	1.53
2:R:43:ARG:CB	2:R:43:ARG:CG	1.86	1.52
2:P:43:ARG:CB	1:Q:67:GLY:N	1.70	1.52
2:T:43:ARG:CG	2:T:43:ARG:CB	1.86	1.51
2:B:43:ARG:CB	2:B:43:ARG:CG	1.86	1.51
2:F:43:ARG:CG	2:F:43:ARG:CB	1.86	1.50
2:D:43:ARG:CG	2:D:43:ARG:CB	1.86	1.50
2:N:43:ARG:CB	2:N:43:ARG:CG	1.86	1.50
2:V:43:ARG:CB	2:V:43:ARG:CG	1.86	1.50
2:J:43:ARG:CB	2:J:43:ARG:CG	1.86	1.49
2:P:43:ARG:CB	2:P:43:ARG:CG	1.86	1.49
2:X:43:ARG:CB	2:X:43:ARG:CG	1.86	1.48
2:P:41:ARG:HD2	1:Q:43:VAL:CA	1.45	1.43
2:P:43:ARG:CB	1:Q:65:ALA:O	1.67	1.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:43:ARG:HB3	1:Q:66:GLU:C	1.45	1.40
2:P:41:ARG:CD	1:Q:43:VAL:HA	1.56	1.36
2:J:43:ARG:HA	1:K:67:GLY:C	1.52	1.34
2:D:236:ILE:O	1:E:254:ILE:HD13	1.14	1.31
2:P:43:ARG:CG	1:Q:66:GLU:C	2.02	1.31
2:P:41:ARG:CD	1:Q:44:GLU:H	1.45	1.29
2:J:41:ARG:CG	1:K:43:VAL:HB	1.64	1.27
2:P:43:ARG:HB3	1:Q:67:GLY:N	0.95	1.27
2:P:41:ARG:HB3	1:Q:43:VAL:C	1.60	1.26
2:P:43:ARG:C	1:Q:66:GLU:HA	1.61	1.25
2:P:41:ARG:HB2	1:Q:44:GLU:C	1.62	1.24
2:P:39:PHE:C	1:Q:45:GLY:HA3	1.60	1.24
2:P:41:ARG:CG	1:Q:43:VAL:HA	1.65	1.23
2:P:41:ARG:CB	1:Q:44:GLU:N	2.02	1.23
2:P:39:PHE:CD1	1:Q:45:GLY:O	1.92	1.22
1:K:238:LEU:CD1	2:L:235:LEU:HD13	1.68	1.22
2:P:46:GLN:HG2	1:Q:66:GLU:OE1	1.36	1.21
1:S:253:LYS:CG	2:T:241:LEU:HD13	1.70	1.20
2:P:43:ARG:CB	1:Q:66:GLU:C	2.05	1.20
2:R:267:LEU:HD21	2:T:267:LEU:HD13	1.21	1.20
2:T:41:ARG:HD3	1:U:43:VAL:O	1.42	1.19
2:D:228:LEU:HD13	1:E:251:LEU:HD21	1.23	1.18
2:P:41:ARG:C	1:Q:43:VAL:HG13	1.66	1.18
2:J:41:ARG:HG3	1:K:43:VAL:CB	1.71	1.18
2:P:41:ARG:CD	1:Q:43:VAL:CA	2.17	1.17
2:J:45:VAL:O	1:K:66:GLU:OE1	1.56	1.16
2:P:43:ARG:CB	1:Q:66:GLU:CA	2.21	1.16
2:P:189:ALA:HB3	1:Q:212:PHE:CD1	1.79	1.16
2:P:41:ARG:CD	1:Q:44:GLU:N	2.07	1.16
1:I:239:GLY:CA	2:J:231:ALA:HB1	1.75	1.15
1:A:210:ALA:HB3	2:B:205:GLN:HB2	1.28	1.15
1:A:67:GLY:HA2	2:X:43:ARG:NE	1.61	1.15
2:J:43:ARG:O	1:K:67:GLY:N	1.81	1.13
1:S:249:ILE:HG12	2:T:241:LEU:HD12	1.19	1.13
2:P:46:GLN:CG	1:Q:66:GLU:OE1	1.98	1.12
1:G:98:ASP:O	2:H:184:GLU:HB2	1.49	1.12
2:T:41:ARG:CD	1:U:43:VAL:O	1.97	1.12
1:A:67:GLY:HA2	2:X:43:ARG:HE	1.13	1.11
2:P:41:ARG:HD2	1:Q:43:VAL:C	1.76	1.11
2:T:41:ARG:NH2	1:U:44:GLU:HG2	1.66	1.11
1:A:68:LEU:H	2:X:43:ARG:CZ	1.63	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:142:LYS:HE3	2:D:140:ILE:HD13	1.31	1.10
2:R:259:TYR:CE1	1:S:276:ASP:HA	1.87	1.10
2:T:41:ARG:CG	1:U:43:VAL:O	1.99	1.10
2:V:243:ALA:HB2	1:W:254:ILE:HG23	1.15	1.10
1:K:238:LEU:HD13	2:L:235:LEU:CD1	1.81	1.09
2:P:178:GLU:OE1	1:Q:206:GLU:OE2	1.69	1.09
2:P:42:PHE:HB3	1:Q:67:GLY:O	1.51	1.09
1:K:242:LEU:O	1:M:294:LEU:HD12	1.53	1.09
2:P:43:ARG:CA	1:Q:65:ALA:O	2.00	1.09
2:B:207:LYS:HG3	1:C:227:GLN:HA	1.36	1.08
2:P:61:VAL:HG23	1:Q:43:VAL:CG1	1.82	1.08
2:P:43:ARG:O	1:Q:66:GLU:N	1.86	1.07
1:Q:242:LEU:HD13	2:R:238:LEU:HD13	1.31	1.07
2:P:41:ARG:HB2	1:Q:44:GLU:O	1.55	1.07
2:J:41:ARG:HG2	1:K:43:VAL:HB	1.34	1.07
2:V:221:ALA:HB1	1:W:242:LEU:HD21	1.32	1.07
2:H:267:LEU:HD21	2:J:267:LEU:HD13	1.20	1.06
1:S:253:LYS:HG3	2:T:241:LEU:HD13	1.26	1.06
1:U:257:ALA:HB2	1:W:279:VAL:HG11	1.19	1.06
2:P:43:ARG:HG3	1:Q:66:GLU:N	1.71	1.06
1:Q:221:GLN:HE21	2:R:212:ILE:HG22	0.99	1.06
2:V:259:TYR:CZ	1:W:274:THR:O	2.08	1.06
1:M:146:ALA:CB	2:N:140:ILE:HG21	1.86	1.06
2:D:236:ILE:O	1:E:254:ILE:CD1	2.04	1.05
2:P:43:ARG:HG2	1:Q:66:GLU:C	1.74	1.05
2:P:40:ASP:N	1:Q:45:GLY:HA3	1.70	1.05
1:I:239:GLY:HA3	2:J:231:ALA:CB	1.86	1.04
2:V:257:ILE:HA	1:W:271:ILE:O	1.56	1.04
1:C:290:GLY:O	1:E:283:GLN:CD	2.01	1.03
1:G:274:THR:HG21	1:I:281:ASN:OD1	1.55	1.03
2:J:43:ARG:O	1:K:66:GLU:C	2.02	1.03
1:S:260:ILE:HG23	2:T:248:ALA:HB1	1.35	1.03
2:D:228:LEU:CD1	1:E:251:LEU:HD21	1.87	1.02
2:P:41:ARG:CB	1:Q:43:VAL:C	2.32	1.02
2:P:110:ILE:O	1:Q:109:LEU:HD11	1.60	1.01
2:T:43:ARG:O	1:U:66:GLU:HB3	1.59	1.01
2:J:42:PHE:HB3	1:K:68:LEU:HD22	1.43	1.01
2:R:237:GLU:CB	1:S:294:LEU:HD13	1.89	1.01
2:V:221:ALA:HB1	1:W:242:LEU:CD2	1.89	1.01
1:C:274:THR:HG22	2:D:261:PRO:HB3	1.39	1.01
2:V:247:ILE:HG12	1:W:257:ALA:HB1	1.42	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:68:LEU:HD22	2:X:43:ARG:HD2	1.44	1.00
1:M:125:GLY:HA3	2:N:70:ARG:HD3	1.42	1.00
1:A:43:VAL:O	2:X:41:ARG:HA	1.61	1.00
2:J:42:PHE:O	1:K:68:LEU:HA	1.61	0.99
2:P:43:ARG:CA	1:Q:66:GLU:HA	1.92	0.99
2:R:267:LEU:CD2	2:T:267:LEU:HD13	1.92	0.99
2:H:270:LEU:HD11	2:J:260:LEU:HD21	1.42	0.99
2:J:41:ARG:CG	1:K:43:VAL:CB	2.35	0.99
1:Q:221:GLN:HE21	2:R:212:ILE:CG2	1.73	0.99
1:Q:221:GLN:NE2	2:R:212:ILE:HG22	1.76	0.99
2:B:267:LEU:HD11	2:D:267:LEU:HD13	1.45	0.98
1:O:290:GLY:O	1:Q:283:GLN:OE1	1.81	0.98
2:P:43:ARG:O	1:Q:65:ALA:C	2.06	0.98
2:R:257:ILE:HG23	1:S:273:LEU:HD12	1.41	0.98
2:R:259:TYR:HE1	1:S:276:ASP:HA	1.25	0.98
1:A:283:GLN:HB2	1:W:276:ASP:HB3	1.45	0.98
1:A:67:GLY:HA2	2:X:43:ARG:CZ	1.92	0.98
2:P:41:ARG:CG	1:Q:44:GLU:N	2.27	0.98
2:P:43:ARG:HG3	1:Q:66:GLU:C	1.86	0.98
1:I:272:TYR:CD1	2:J:259:TYR:O	2.17	0.98
2:P:41:ARG:CG	1:Q:44:GLU:H	1.75	0.98
2:P:61:VAL:HG23	1:Q:43:VAL:HG11	1.41	0.98
2:V:258:THR:CB	1:W:272:TYR:CD2	2.47	0.98
2:V:258:THR:HB	1:W:272:TYR:CD2	1.99	0.98
2:V:218:SER:OG	1:W:237:MET:CE	2.11	0.98
2:D:197:ARG:HA	1:E:219:GLN:HE22	1.28	0.97
2:P:43:ARG:HG2	1:Q:67:GLY:CA	1.93	0.97
2:V:236:ILE:HG23	1:W:250:LYS:HD2	1.46	0.97
1:S:252:ARG:HE	2:T:245:GLU:CD	1.72	0.97
2:P:41:ARG:HD2	1:Q:43:VAL:N	1.79	0.97
2:P:41:ARG:NE	1:Q:44:GLU:H	1.61	0.97
2:P:43:ARG:HG2	1:Q:67:GLY:HA3	1.47	0.97
2:P:43:ARG:CB	1:Q:67:GLY:CA	2.43	0.96
1:A:280:LEU:HB3	1:W:273:LEU:HD22	1.47	0.96
2:D:247:ILE:HG12	1:E:261:SER:OG	1.66	0.96
2:T:41:ARG:CZ	1:U:44:GLU:HG2	1.95	0.96
2:P:41:ARG:HB2	1:Q:44:GLU:N	1.74	0.96
2:P:39:PHE:C	1:Q:45:GLY:CA	2.39	0.95
2:P:43:ARG:CB	1:Q:66:GLU:HA	1.91	0.95
2:P:43:ARG:C	1:Q:66:GLU:CA	2.39	0.95
2:P:182:ALA:HB1	1:Q:205:GLN:O	1.66	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:236:ILE:C	1:E:254:ILE:HD13	1.91	0.95
2:P:43:ARG:HB3	1:Q:66:GLU:CA	1.88	0.95
1:S:272:TYR:O	2:T:259:TYR:O	1.82	0.95
1:A:67:GLY:CA	2:X:43:ARG:HE	1.80	0.95
1:Q:249:ILE:HG21	1:S:294:LEU:HG	1.48	0.95
1:S:260:ILE:CG1	2:T:248:ALA:HB3	1.96	0.95
1:I:217:ALA:HB1	2:J:212:ILE:HG21	1.48	0.95
1:M:52:PHE:CD1	2:N:32:ALA:HB2	2.01	0.95
2:J:43:ARG:CA	1:K:67:GLY:C	2.39	0.95
2:N:267:LEU:HD11	2:P:267:LEU:HD22	1.45	0.95
2:B:268:LEU:O	2:D:269:GLN:OE1	1.85	0.95
2:L:218:SER:HB2	1:M:238:LEU:HD21	1.49	0.95
2:T:240:LYS:O	2:T:243:ALA:HB3	1.67	0.95
2:L:240:LYS:O	2:L:243:ALA:HB3	1.67	0.94
1:G:249:ILE:HD13	1:I:294:LEU:HD21	1.48	0.94
2:B:240:LYS:O	2:B:243:ALA:HB3	1.67	0.94
1:K:217:ALA:HB1	2:L:212:ILE:HG21	1.46	0.94
2:T:43:ARG:O	1:U:66:GLU:OE1	1.86	0.94
2:X:240:LYS:O	2:X:243:ALA:HB3	1.67	0.94
2:F:240:LYS:O	2:F:243:ALA:HB3	1.67	0.94
2:H:240:LYS:O	2:H:243:ALA:HB3	1.67	0.94
2:J:41:ARG:HG3	1:K:43:VAL:CG1	1.97	0.94
2:P:43:ARG:CG	1:Q:65:ALA:O	2.16	0.94
2:P:178:GLU:HB2	1:Q:202:VAL:HG13	1.46	0.94
1:A:67:GLY:HA2	2:X:43:ARG:NH2	1.82	0.94
1:A:206:GLU:OE1	2:B:202:LYS:HD2	1.68	0.94
1:A:294:LEU:HG	1:W:249:ILE:HG21	1.48	0.93
2:N:240:LYS:O	2:N:243:ALA:HB3	1.67	0.93
2:P:240:LYS:O	2:P:243:ALA:HB3	1.67	0.93
2:P:41:ARG:CA	1:Q:43:VAL:HG13	1.98	0.93
2:R:218:SER:OG	1:S:241:ALA:HB1	1.69	0.93
2:R:240:LYS:O	2:R:243:ALA:HB3	1.67	0.93
2:B:196:ALA:HB3	1:C:219:GLN:NE2	1.82	0.93
2:D:240:LYS:O	2:D:243:ALA:HB3	1.67	0.93
1:M:146:ALA:HB3	2:N:140:ILE:HG21	1.47	0.93
2:P:43:ARG:CB	1:Q:65:ALA:C	2.40	0.93
2:P:121:SER:OG	1:Q:183:ALA:C	2.11	0.93
2:X:93:ARG:HE	2:X:95:LEU:HD21	1.34	0.93
2:J:240:LYS:O	2:J:243:ALA:HB3	1.67	0.93
1:G:214:VAL:HG22	2:H:208:LYS:HG2	1.51	0.93
2:L:93:ARG:HE	2:L:95:LEU:HD21	1.34	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:93:ARG:HE	2:R:95:LEU:HD21	1.33	0.93
2:B:204:GLU:HG2	1:C:226:VAL:HG21	1.50	0.93
2:D:224:ILE:HB	1:E:248:TYR:CD1	2.04	0.93
2:P:121:SER:OG	1:Q:184:ILE:N	2.02	0.93
2:P:43:ARG:CG	1:Q:67:GLY:HA3	1.99	0.93
1:A:66:GLU:OE1	2:X:47:ASP:OD2	1.85	0.93
2:V:93:ARG:HE	2:V:95:LEU:HD21	1.34	0.93
2:F:93:ARG:HE	2:F:95:LEU:HD21	1.34	0.92
2:T:41:ARG:HG2	1:U:43:VAL:O	1.69	0.92
2:D:243:ALA:HB2	1:E:258:GLN:HG2	1.49	0.92
2:F:241:LEU:HD21	1:I:283:GLN:HE21	1.33	0.92
2:J:93:ARG:HE	2:J:95:LEU:HD21	1.34	0.92
2:P:41:ARG:HE	1:Q:44:GLU:HB2	1.32	0.92
1:Q:249:ILE:CD1	2:R:241:LEU:HD12	1.99	0.92
2:R:257:ILE:HG21	1:S:278:LEU:HG	1.52	0.92
2:N:93:ARG:HE	2:N:95:LEU:HD21	1.33	0.92
1:Q:249:ILE:HG12	2:R:241:LEU:HD12	1.52	0.92
1:C:253:LYS:HD3	1:E:279:VAL:HG22	1.51	0.92
2:D:222:GLU:OE2	1:E:237:MET:O	1.87	0.92
1:G:98:ASP:HB2	2:H:184:GLU:HA	1.50	0.92
1:I:263:THR:HG21	2:J:249:TYR:CE1	2.04	0.91
2:V:240:LYS:O	2:V:243:ALA:HB3	1.67	0.91
1:A:68:LEU:H	2:X:43:ARG:NE	1.68	0.91
2:P:44:GLY:C	1:Q:66:GLU:HG2	1.94	0.91
2:P:41:ARG:HB2	1:Q:44:GLU:CA	2.00	0.91
1:M:124:LEU:HD23	2:N:71:SER:HB3	1.51	0.91
1:K:225:ILE:HA	2:L:219:LYS:CE	2.01	0.91
2:B:93:ARG:HE	2:B:95:LEU:HD21	1.34	0.91
1:I:239:GLY:HA3	2:J:231:ALA:HB1	0.93	0.91
1:K:225:ILE:HA	2:L:219:LYS:HE2	1.53	0.91
2:P:46:GLN:CA	1:Q:66:GLU:OE1	2.18	0.91
2:R:211:ILE:HD11	1:S:233:GLU:OE2	1.70	0.91
2:P:259:TYR:CE1	1:Q:278:LEU:HB2	2.05	0.91
1:Q:252:ARG:O	2:R:245:GLU:OE2	1.87	0.91
2:V:218:SER:OG	1:W:237:MET:HE1	1.70	0.91
2:L:259:TYR:O	2:L:260:LEU:HD12	1.71	0.90
1:S:260:ILE:HG12	2:T:248:ALA:HB3	1.50	0.90
2:B:269:GLN:HG3	2:D:269:GLN:CD	1.96	0.90
2:D:93:ARG:HE	2:D:95:LEU:HD21	1.33	0.90
2:N:259:TYR:O	2:N:260:LEU:HD12	1.72	0.90
2:P:41:ARG:CG	1:Q:43:VAL:CA	2.46	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:247:ILE:CG1	1:W:257:ALA:HB1	2.01	0.90
2:B:204:GLU:CG	1:C:226:VAL:HG21	2.01	0.90
1:C:299:LYS:OXT	1:E:288:THR:HG21	1.72	0.90
2:D:182:ALA:HB1	1:E:205:GLN:HB3	1.50	0.90
2:F:241:LEU:HD21	1:I:283:GLN:NE2	1.85	0.90
1:G:260:ILE:CD1	1:I:279:VAL:HG21	2.01	0.90
2:T:93:ARG:HE	2:T:95:LEU:HD21	1.34	0.90
2:D:224:ILE:C	1:E:248:TYR:HB2	1.96	0.90
1:S:164:ILE:HD12	1:S:184:ILE:HD11	1.54	0.90
2:X:259:TYR:O	2:X:260:LEU:HD12	1.71	0.90
2:V:259:TYR:O	2:V:260:LEU:HD12	1.71	0.90
2:V:243:ALA:HB2	1:W:254:ILE:CG2	2.00	0.90
2:P:39:PHE:CZ	1:Q:44:GLU:HB3	2.07	0.90
2:P:46:GLN:HA	1:Q:66:GLU:OE1	1.71	0.90
2:F:259:TYR:O	2:F:260:LEU:HD12	1.72	0.90
2:J:259:TYR:O	2:J:260:LEU:HD12	1.72	0.90
2:P:85:LEU:CB	1:Q:197:VAL:CG1	2.50	0.90
2:H:93:ARG:HE	2:H:95:LEU:HD21	1.34	0.89
1:Q:164:ILE:HD12	1:Q:184:ILE:HD11	1.54	0.89
2:P:93:ARG:HE	2:P:95:LEU:HD21	1.34	0.89
2:P:259:TYR:O	2:P:260:LEU:HD12	1.72	0.89
2:T:259:TYR:O	2:T:260:LEU:HD12	1.72	0.89
1:U:164:ILE:HD12	1:U:184:ILE:HD11	1.54	0.89
2:H:259:TYR:O	2:H:260:LEU:HD12	1.72	0.89
1:A:67:GLY:CA	2:X:43:ARG:NE	2.35	0.89
2:D:259:TYR:O	2:D:260:LEU:HD12	1.71	0.89
2:R:259:TYR:O	2:R:260:LEU:HD12	1.72	0.89
1:Q:239:GLY:HA2	2:R:235:LEU:HB2	1.53	0.89
1:W:164:ILE:HD12	1:W:184:ILE:HD11	1.54	0.89
2:B:259:TYR:O	2:B:260:LEU:HD12	1.72	0.89
1:G:249:ILE:HG21	1:I:294:LEU:HG	1.54	0.89
2:H:43:ARG:HD2	1:I:68:LEU:HD23	1.52	0.89
2:H:270:LEU:CD1	2:J:260:LEU:HD11	2.03	0.89
1:A:164:ILE:HD12	1:A:184:ILE:HD11	1.54	0.89
2:J:43:ARG:HA	1:K:67:GLY:CA	2.01	0.89
2:P:60:TRP:CZ2	1:Q:42:THR:HG22	2.08	0.89
1:E:164:ILE:HD12	1:E:184:ILE:HD11	1.54	0.89
1:K:164:ILE:HD12	1:K:184:ILE:HD11	1.54	0.89
2:L:222:GLU:OE2	1:M:241:ALA:HB1	1.73	0.89
2:R:259:TYR:CE2	1:S:281:ASN:OD1	2.26	0.89
1:S:260:ILE:HG23	2:T:248:ALA:CB	2.02	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:221:ALA:CB	1:W:242:LEU:HD21	2.02	0.88
1:G:58:VAL:HG23	2:H:32:ALA:CB	2.03	0.88
2:P:43:ARG:O	1:Q:66:GLU:CA	2.19	0.88
2:D:268:LEU:HD21	1:E:272:TYR:CD2	2.09	0.88
1:A:68:LEU:HD23	2:X:43:ARG:HH11	1.37	0.88
1:A:294:LEU:HD21	1:W:249:ILE:HD13	1.55	0.88
2:D:247:ILE:CD1	1:E:261:SER:OG	2.22	0.88
2:P:43:ARG:CG	1:Q:65:ALA:C	2.46	0.88
1:O:164:ILE:HD12	1:O:184:ILE:HD11	1.54	0.88
2:P:41:ARG:HG2	1:Q:43:VAL:HA	1.56	0.88
2:D:247:ILE:CG1	1:E:261:SER:OG	2.22	0.88
2:R:259:TYR:CE2	1:S:280:LEU:C	2.52	0.88
1:A:210:ALA:CB	2:B:205:GLN:HB2	2.03	0.88
1:Q:249:ILE:CD1	1:S:294:LEU:HD21	2.03	0.88
2:P:157:ARG:NH2	1:Q:165:ARG:NH1	2.21	0.87
1:K:253:LYS:O	1:M:279:VAL:CG1	2.22	0.87
1:M:54:ARG:HE	2:N:53:GLY:HA2	1.37	0.87
1:S:260:ILE:HD11	2:T:244:ALA:O	1.74	0.87
1:M:164:ILE:HD12	1:M:184:ILE:HD11	1.54	0.87
2:V:239:ARG:O	1:W:254:ILE:HG21	1.75	0.87
1:I:164:ILE:HD12	1:I:184:ILE:HD11	1.54	0.87
2:J:43:ARG:CB	1:K:67:GLY:HA2	2.04	0.87
1:Q:249:ILE:CG1	2:R:241:LEU:HD12	2.04	0.87
1:A:275:ALA:HA	2:X:261:PRO:HA	1.53	0.87
1:K:221:GLN:OE1	2:L:216:GLY:HA3	1.75	0.87
2:P:186:LYS:HA	1:Q:212:PHE:CE2	2.09	0.86
1:I:272:TYR:HD1	2:J:259:TYR:O	1.57	0.86
1:M:142:LYS:HG2	2:N:173:LEU:HB3	1.56	0.86
2:T:270:LEU:HD13	1:U:272:TYR:CD2	2.10	0.86
1:C:164:ILE:HD12	1:C:184:ILE:HD11	1.54	0.86
1:G:175:PHE:HZ	2:H:95:LEU:HD13	1.40	0.86
1:K:253:LYS:CD	1:M:287:PHE:CZ	2.59	0.86
2:P:43:ARG:HB3	1:Q:67:GLY:H	1.05	0.86
2:R:211:ILE:CD1	1:S:233:GLU:OE2	2.23	0.86
2:D:225:ALA:N	1:E:248:TYR:HB2	1.89	0.86
2:V:256:ASN:HB2	1:W:270:ARG:HA	1.57	0.86
2:J:41:ARG:HG3	1:K:43:VAL:O	1.75	0.86
1:M:256:ALA:HA	2:N:245:GLU:OE2	1.75	0.86
1:S:252:ARG:HG3	2:T:241:LEU:O	1.74	0.86
1:G:99:LEU:HB2	2:H:180:THR:O	1.75	0.86
2:R:241:LEU:HD21	1:U:283:GLN:NE2	1.89	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:240:LYS:HZ3	1:E:282:LEU:HD13	1.41	0.86
1:G:57:GLY:HA3	2:H:52:GLU:OE1	1.76	0.86
1:M:99:LEU:HB3	2:N:180:THR:HG23	1.58	0.86
2:V:258:THR:HB	1:W:272:TYR:CG	2.10	0.86
2:P:85:LEU:HB3	1:Q:197:VAL:CG1	2.04	0.86
1:A:68:LEU:CD2	2:X:43:ARG:HD2	2.06	0.85
1:K:225:ILE:O	2:L:219:LYS:NZ	2.08	0.85
2:T:43:ARG:C	1:U:66:GLU:HB3	2.00	0.85
2:P:43:ARG:HG3	1:Q:66:GLU:CA	2.05	0.85
1:G:164:ILE:HD12	1:G:184:ILE:HD11	1.54	0.85
2:J:85:LEU:HD11	1:K:155:THR:HG22	1.57	0.85
2:J:104:PRO:O	2:J:108:THR:HG23	1.77	0.85
1:M:139:GLU:CD	2:N:169:SER:CB	2.50	0.85
2:P:104:PRO:O	2:P:108:THR:HG23	1.77	0.85
2:R:104:PRO:O	2:R:108:THR:HG23	1.77	0.85
1:A:84:ARG:HA	2:X:109:SER:HA	1.58	0.85
1:I:252:ARG:NH1	2:J:238:LEU:HD21	1.89	0.85
2:L:217:ASP:HB3	1:M:252:ARG:NH1	1.92	0.85
2:P:118:VAL:HG22	1:Q:109:LEU:HD22	1.56	0.85
2:L:189:ALA:HB3	1:M:212:PHE:CD1	2.11	0.85
2:N:104:PRO:O	2:N:108:THR:HG23	1.77	0.85
1:A:68:LEU:N	2:X:43:ARG:NE	2.24	0.85
2:P:43:ARG:CG	1:Q:67:GLY:N	2.39	0.85
2:P:117:ARG:HD2	1:Q:87:PRO:HG2	1.59	0.85
2:P:186:LYS:HA	1:Q:212:PHE:CD2	2.11	0.85
1:Q:260:ILE:HD13	2:R:248:ALA:HB3	1.59	0.85
2:T:104:PRO:O	2:T:108:THR:HG23	1.77	0.85
2:V:218:SER:CB	1:W:237:MET:HE1	2.07	0.85
2:B:270:LEU:HD12	2:D:269:GLN:O	1.77	0.84
2:H:104:PRO:O	2:H:108:THR:HG23	1.77	0.84
2:H:241:LEU:HD11	1:K:283:GLN:NE2	1.90	0.84
1:K:225:ILE:HD13	2:L:219:LYS:CG	2.07	0.84
2:B:104:PRO:O	2:B:108:THR:HG23	1.77	0.84
2:P:108:THR:O	1:Q:111:ARG:HB3	1.77	0.84
1:Q:242:LEU:HD13	2:R:238:LEU:CD1	2.07	0.84
2:D:236:ILE:HG23	1:E:250:LYS:HB3	1.59	0.84
2:B:204:GLU:HA	1:C:226:VAL:CG2	2.08	0.84
2:L:104:PRO:O	2:L:108:THR:HG23	1.77	0.84
1:M:54:ARG:NH1	2:N:54:THR:OG1	2.10	0.84
2:P:41:ARG:CD	1:Q:43:VAL:C	2.43	0.84
2:R:200:VAL:HG13	1:S:226:VAL:HG11	1.58	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:104:PRO:O	2:D:108:THR:HG23	1.77	0.84
1:G:175:PHE:CZ	2:H:95:LEU:HD13	2.12	0.84
2:L:222:GLU:OE2	1:M:241:ALA:CB	2.26	0.84
2:P:41:ARG:HB3	1:Q:43:VAL:CG1	2.07	0.84
2:P:110:ILE:HA	1:Q:109:LEU:CD2	2.08	0.84
1:Q:267:SER:OG	2:R:252:SER:O	1.95	0.84
1:S:252:ARG:NE	2:T:245:GLU:CD	2.35	0.84
1:A:67:GLY:HA2	2:X:43:ARG:HH21	1.40	0.84
2:P:200:VAL:HG22	1:Q:223:GLN:HB2	1.58	0.84
1:S:252:ARG:HG3	2:T:245:GLU:OE1	1.77	0.84
1:A:281:ASN:HA	1:W:274:THR:HG21	1.59	0.83
1:A:200:LYS:HA	2:B:195:ARG:HA	1.58	0.83
2:J:221:ALA:HA	1:K:248:TYR:CD2	2.13	0.83
2:R:237:GLU:HB2	1:S:294:LEU:HD13	1.58	0.83
2:V:104:PRO:O	2:V:108:THR:HG23	1.77	0.83
2:V:239:ARG:HG3	1:W:251:LEU:CD1	2.08	0.83
2:X:104:PRO:O	2:X:108:THR:HG23	1.77	0.83
1:K:225:ILE:HD13	2:L:219:LYS:HG2	1.58	0.83
2:J:157:ARG:NH2	1:K:165:ARG:NH1	2.25	0.83
2:D:240:LYS:HG3	1:E:254:ILE:HG23	1.59	0.83
2:J:41:ARG:O	1:K:43:VAL:HG11	1.78	0.83
1:A:204:GLN:N	2:B:198:PHE:HB3	1.92	0.83
1:G:260:ILE:HD13	1:I:279:VAL:HG21	1.58	0.83
2:P:44:GLY:C	1:Q:66:GLU:OE2	2.15	0.83
1:A:68:LEU:HD22	2:X:43:ARG:CD	2.07	0.83
2:B:269:GLN:HA	2:D:269:GLN:HB2	1.58	0.83
2:F:104:PRO:O	2:F:108:THR:HG23	1.77	0.83
2:J:41:ARG:HG3	1:K:43:VAL:HG12	1.60	0.83
2:J:43:ARG:C	1:K:67:GLY:N	2.36	0.83
2:L:189:ALA:CB	1:M:212:PHE:CD1	2.61	0.83
2:N:268:LEU:O	2:P:269:GLN:HB2	1.78	0.83
2:P:189:ALA:CB	1:Q:212:PHE:CD1	2.61	0.83
2:R:241:LEU:HD21	1:U:283:GLN:HE22	1.44	0.83
2:F:270:LEU:HD12	2:H:260:LEU:HD11	1.61	0.83
1:U:277:ASN:ND2	1:W:280:LEU:O	2.11	0.83
1:I:252:ARG:HH11	2:J:238:LEU:HD11	1.43	0.82
1:M:135:SER:HB3	2:N:171:THR:OG1	1.78	0.82
1:Q:214:VAL:HG22	2:R:205:GLN:HB3	1.60	0.82
1:A:68:LEU:N	2:X:43:ARG:CZ	2.42	0.82
2:P:61:VAL:HG23	1:Q:43:VAL:HG12	1.60	0.82
1:A:196:ALA:HB1	2:B:192:GLU:HA	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:218:SER:HB2	1:C:238:LEU:HD21	1.62	0.82
1:I:228:ALA:HB3	2:J:219:LYS:NZ	1.93	0.82
1:C:100:GLN:NE2	2:D:184:GLU:OE2	2.12	0.82
1:M:54:ARG:NE	2:N:54:THR:H	1.77	0.82
1:M:123:ARG:O	2:N:71:SER:HB2	1.79	0.82
1:U:250:LYS:HE3	1:W:291:SER:HB3	1.60	0.82
1:A:264:ILE:HG23	1:A:269:ASN:OD1	1.80	0.82
1:G:264:ILE:HG23	1:G:269:ASN:OD1	1.80	0.82
2:P:157:ARG:NH2	1:Q:165:ARG:CZ	2.42	0.82
1:S:264:ILE:HG23	1:S:269:ASN:OD1	1.80	0.82
2:J:157:ARG:HH22	1:K:165:ARG:NH1	1.78	0.82
1:O:64:LEU:HD13	1:O:69:HIS:CG	2.15	0.82
1:C:64:LEU:HD13	1:C:69:HIS:CG	2.15	0.82
1:K:238:LEU:HD13	2:L:235:LEU:HD13	0.86	0.82
1:K:264:ILE:HG23	1:K:269:ASN:OD1	1.80	0.82
1:Q:264:ILE:HG23	1:Q:269:ASN:OD1	1.80	0.82
1:C:264:ILE:HG23	1:C:269:ASN:OD1	1.80	0.82
1:W:64:LEU:HD13	1:W:69:HIS:CG	2.15	0.82
1:C:131:ARG:HD3	2:D:71:SER:HB3	1.59	0.82
1:G:64:LEU:HD13	1:G:69:HIS:CG	2.15	0.82
2:J:43:ARG:CG	1:K:67:GLY:HA2	2.10	0.82
1:M:121:TYR:CE2	2:N:32:ALA:HB3	2.13	0.82
1:A:64:LEU:HD13	1:A:69:HIS:CG	2.15	0.81
1:A:99:LEU:HD12	2:B:183:VAL:HG11	1.62	0.81
1:M:125:GLY:HA3	2:N:70:ARG:CD	2.10	0.81
2:R:259:TYR:CE2	1:S:281:ASN:N	2.48	0.81
1:C:290:GLY:O	1:E:283:GLN:NE2	2.13	0.81
2:D:251:LEU:HD21	1:E:264:ILE:HG22	1.60	0.81
2:D:251:LEU:CD2	1:E:264:ILE:HG22	2.09	0.81
1:E:264:ILE:HG23	1:E:269:ASN:OD1	1.80	0.81
2:F:270:LEU:HD22	1:G:272:TYR:CD2	2.15	0.81
2:J:43:ARG:CA	1:K:67:GLY:CA	2.58	0.81
1:K:64:LEU:HD13	1:K:69:HIS:CG	2.15	0.81
2:P:41:ARG:NE	1:Q:44:GLU:N	2.25	0.81
1:S:64:LEU:HD13	1:S:69:HIS:CG	2.15	0.81
2:V:257:ILE:CG1	1:W:271:ILE:HB	2.11	0.81
2:V:260:LEU:O	1:W:274:THR:C	2.23	0.81
1:M:264:ILE:HG23	1:M:269:ASN:OD1	1.80	0.81
2:P:41:ARG:CB	1:Q:43:VAL:HG13	2.10	0.81
2:P:39:PHE:CE2	1:Q:44:GLU:HB3	2.16	0.81
1:M:135:SER:HB2	2:N:93:ARG:CG	2.11	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:43:ARG:HB2	1:Q:67:GLY:CA	2.08	0.81
2:P:109:SER:OG	1:Q:180:ASP:OD2	1.97	0.81
2:R:237:GLU:CB	1:S:294:LEU:CD1	2.58	0.81
1:S:274:THR:HG22	2:T:260:LEU:HA	1.62	0.81
1:U:264:ILE:HG23	1:U:269:ASN:OD1	1.80	0.81
1:I:264:ILE:HG23	1:I:269:ASN:OD1	1.80	0.81
2:J:94:ILE:HD13	2:J:119:LEU:HB3	1.63	0.81
1:S:253:LYS:O	1:S:256:ALA:HB3	1.81	0.81
1:I:64:LEU:HD13	1:I:69:HIS:CG	2.15	0.81
1:M:64:LEU:HD13	1:M:69:HIS:CG	2.15	0.81
1:S:243:SER:HA	2:T:234:GLY:HA2	1.63	0.81
1:U:64:LEU:HD13	1:U:69:HIS:CG	2.15	0.81
1:U:253:LYS:O	1:U:256:ALA:HB3	1.81	0.81
2:X:94:ILE:HD13	2:X:119:LEU:HB3	1.63	0.81
1:G:58:VAL:HG23	2:H:32:ALA:HB3	1.63	0.81
2:L:218:SER:CB	1:M:238:LEU:HD21	2.11	0.81
1:W:108:VAL:HG21	1:W:137:VAL:HG22	1.63	0.81
1:C:253:LYS:O	1:C:256:ALA:HB3	1.81	0.81
2:D:94:ILE:HD13	2:D:119:LEU:HB3	1.63	0.81
2:P:41:ARG:HE	1:Q:44:GLU:CB	1.94	0.81
1:S:252:ARG:CG	2:T:241:LEU:O	2.29	0.81
1:W:264:ILE:HG23	1:W:269:ASN:OD1	1.80	0.81
2:B:218:SER:HB2	1:C:238:LEU:CD2	2.11	0.80
2:P:94:ILE:HD13	2:P:119:LEU:HB3	1.63	0.80
2:P:125:GLU:CG	1:Q:158:ALA:HA	2.10	0.80
1:G:108:VAL:HG21	1:G:137:VAL:HG22	1.63	0.80
1:I:253:LYS:O	1:I:256:ALA:HB3	1.81	0.80
1:M:253:LYS:O	1:M:256:ALA:HB3	1.81	0.80
1:Q:108:VAL:HG21	1:Q:137:VAL:HG22	1.63	0.80
2:T:94:ILE:HD13	2:T:119:LEU:HB3	1.63	0.80
1:C:108:VAL:HG21	1:C:137:VAL:HG22	1.63	0.80
1:E:64:LEU:HD13	1:E:69:HIS:CG	2.15	0.80
1:A:274:THR:C	2:X:260:LEU:O	2.25	0.80
2:F:94:ILE:HD13	2:F:119:LEU:HB3	1.63	0.80
1:O:253:LYS:O	1:O:256:ALA:HB3	1.81	0.80
2:P:43:ARG:HA	1:Q:65:ALA:O	1.79	0.80
2:P:185:ALA:HB1	1:Q:212:PHE:HZ	1.46	0.80
1:A:108:VAL:HG21	1:A:137:VAL:HG22	1.63	0.80
1:O:108:VAL:HG21	1:O:137:VAL:HG22	1.63	0.80
2:L:30:VAL:HG13	2:L:66:ILE:HG23	1.64	0.80
1:A:217:ALA:HB1	2:B:212:ILE:HG21	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:39:PHE:HD1	1:Q:45:GLY:O	1.61	0.80
1:Q:249:ILE:HD13	1:S:294:LEU:HD21	1.64	0.80
1:O:264:ILE:HG23	1:O:269:ASN:OD1	1.80	0.80
1:Q:64:LEU:HD13	1:Q:69:HIS:CG	2.15	0.80
1:I:271:ILE:HA	2:J:259:TYR:HB3	1.64	0.80
2:P:109:SER:HA	1:Q:111:ARG:HB3	1.64	0.80
1:E:253:LYS:O	1:E:256:ALA:HB3	1.81	0.80
1:K:253:LYS:O	1:K:256:ALA:HB3	1.81	0.80
2:L:49:VAL:HG21	2:L:101:SER:HA	1.65	0.80
1:S:253:LYS:NZ	2:T:241:LEU:CD1	2.44	0.80
1:U:108:VAL:HG21	1:U:137:VAL:HG22	1.63	0.80
1:A:253:LYS:O	1:A:256:ALA:HB3	1.81	0.79
1:G:253:LYS:O	1:G:256:ALA:HB3	1.81	0.79
2:H:49:VAL:HG21	2:H:101:SER:HA	1.65	0.79
2:B:94:ILE:HD13	2:B:119:LEU:HB3	1.63	0.79
2:P:49:VAL:HG21	2:P:101:SER:HA	1.65	0.79
2:V:229:ALA:CB	1:W:244:LYS:HB3	2.13	0.79
2:J:30:VAL:HG13	2:J:66:ILE:HG23	1.64	0.79
2:N:94:ILE:HD13	2:N:119:LEU:HB3	1.63	0.79
1:Q:253:LYS:O	1:Q:256:ALA:HB3	1.81	0.79
1:A:250:LYS:O	1:A:254:ILE:HD12	1.83	0.79
2:P:30:VAL:HG13	2:P:66:ILE:HG23	1.64	0.79
2:B:30:VAL:HG13	2:B:66:ILE:HG23	1.64	0.79
1:I:108:VAL:HG21	1:I:137:VAL:HG22	1.63	0.79
1:I:250:LYS:O	1:I:254:ILE:HD12	1.83	0.79
1:A:207:ALA:HB2	2:B:201:GLU:CB	2.11	0.79
2:D:197:ARG:CA	1:E:219:GLN:HE22	1.95	0.79
2:H:94:ILE:HD13	2:H:119:LEU:HB3	1.63	0.79
1:K:108:VAL:HG21	1:K:137:VAL:HG22	1.63	0.79
1:M:171:ARG:CZ	2:N:167:ASP:OD2	2.31	0.79
1:M:250:LYS:O	1:M:254:ILE:HD12	1.83	0.79
2:T:49:VAL:HG21	2:T:101:SER:HA	1.64	0.79
1:U:250:LYS:O	1:U:254:ILE:HD12	1.83	0.79
2:V:235:LEU:HD11	2:V:239:ARG:HG2	1.65	0.79
2:V:247:ILE:CD1	1:W:257:ALA:HB1	2.13	0.79
2:X:49:VAL:HG21	2:X:101:SER:HA	1.65	0.79
2:X:235:LEU:HD11	2:X:239:ARG:HG2	1.65	0.79
1:E:250:LYS:O	1:E:254:ILE:HD12	1.83	0.79
1:G:250:LYS:O	1:G:254:ILE:HD12	1.83	0.79
1:K:253:LYS:HD2	1:M:287:PHE:CZ	2.17	0.79
2:L:94:ILE:HD13	2:L:119:LEU:HB3	1.63	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:94:ILE:HD13	2:V:119:LEU:HB3	1.63	0.79
1:W:253:LYS:O	1:W:256:ALA:HB3	1.81	0.79
2:X:30:VAL:HG13	2:X:66:ILE:HG23	1.64	0.79
1:A:210:ALA:HB3	2:B:205:GLN:CB	2.12	0.79
1:E:90:ILE:HD12	1:E:137:VAL:HG21	1.65	0.79
2:P:110:ILE:C	1:Q:85:ALA:HB3	2.07	0.79
2:R:215:GLU:HG2	1:S:237:MET:HE3	1.64	0.79
2:R:257:ILE:HB	1:S:278:LEU:HD12	1.64	0.79
1:U:90:ILE:HD12	1:U:137:VAL:HG21	1.65	0.79
2:V:30:VAL:HG13	2:V:66:ILE:HG23	1.64	0.79
1:G:52:PHE:HE1	2:H:32:ALA:HB2	1.46	0.79
2:N:49:VAL:HG21	2:N:101:SER:HA	1.65	0.79
2:R:49:VAL:HG21	2:R:101:SER:HA	1.65	0.79
2:R:94:ILE:HD13	2:R:119:LEU:HB3	1.63	0.79
2:T:235:LEU:HD11	2:T:239:ARG:HG2	1.65	0.79
1:W:250:LYS:O	1:W:254:ILE:HD12	1.83	0.79
2:B:49:VAL:HG21	2:B:101:SER:HA	1.64	0.79
2:D:30:VAL:HG13	2:D:66:ILE:HG23	1.64	0.79
1:E:108:VAL:HG21	1:E:137:VAL:HG22	1.63	0.79
1:G:289:ARG:NH1	1:I:285:GLU:CD	2.41	0.79
2:P:44:GLY:CA	1:Q:66:GLU:HG2	2.13	0.79
1:Q:90:ILE:HD12	1:Q:137:VAL:HG21	1.65	0.79
2:T:30:VAL:HG13	2:T:66:ILE:HG23	1.64	0.79
2:V:257:ILE:CA	1:W:271:ILE:O	2.29	0.79
2:D:49:VAL:HG21	2:D:101:SER:HA	1.64	0.78
1:G:90:ILE:HD12	1:G:137:VAL:HG21	1.65	0.78
2:H:30:VAL:HG13	2:H:66:ILE:HG23	1.64	0.78
1:K:90:ILE:HD12	1:K:137:VAL:HG21	1.65	0.78
2:L:235:LEU:HD11	2:L:239:ARG:HG2	1.65	0.78
1:W:90:ILE:HD12	1:W:137:VAL:HG21	1.65	0.78
2:D:243:ALA:CB	1:E:258:GLN:HA	2.13	0.78
2:H:267:LEU:CD2	2:J:267:LEU:HD13	2.09	0.78
2:L:217:ASP:HB3	1:M:252:ARG:HH12	1.48	0.78
1:G:52:PHE:CE1	2:H:32:ALA:HB2	2.18	0.78
1:I:228:ALA:HB3	2:J:219:LYS:HZ2	1.49	0.78
2:P:196:ALA:HB1	1:Q:220:GLU:CG	2.13	0.78
1:Q:214:VAL:CG2	2:R:205:GLN:HB3	2.13	0.78
1:A:67:GLY:CA	2:X:43:ARG:HH21	1.96	0.78
1:C:250:LYS:O	1:C:254:ILE:HD12	1.83	0.78
1:G:206:GLU:OE1	2:H:202:LYS:HD2	1.83	0.78
2:R:235:LEU:HD11	2:R:239:ARG:HG2	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:237:GLU:HB3	1:S:294:LEU:CD1	2.13	0.78
1:W:256:ALA:HB1	1:W:260:ILE:CD1	2.14	0.78
2:J:235:LEU:HD11	2:J:239:ARG:HG2	1.65	0.78
1:M:108:VAL:HG21	1:M:137:VAL:HG22	1.63	0.78
1:M:143:SER:HA	2:N:143:ARG:HD3	1.65	0.78
1:S:250:LYS:O	1:S:254:ILE:HD12	1.83	0.78
2:T:41:ARG:CZ	1:U:44:GLU:CG	2.61	0.78
2:V:49:VAL:HG21	2:V:101:SER:HA	1.65	0.78
1:C:100:GLN:HA	2:D:184:GLU:HG3	1.65	0.78
2:F:49:VAL:HG21	2:F:101:SER:HA	1.65	0.78
1:I:90:ILE:HD12	1:I:137:VAL:HG21	1.65	0.78
1:O:256:ALA:HB1	1:O:260:ILE:CD1	2.14	0.78
1:S:243:SER:HA	2:T:234:GLY:CA	2.13	0.78
2:T:41:ARG:NH2	1:U:44:GLU:CG	2.45	0.78
1:A:283:GLN:CD	1:W:276:ASP:O	2.26	0.78
2:H:235:LEU:HD11	2:H:239:ARG:HG2	1.65	0.78
2:J:41:ARG:HG3	1:K:43:VAL:CA	2.14	0.78
2:J:43:ARG:HB2	1:K:68:LEU:H	1.49	0.78
1:M:90:ILE:HD12	1:M:137:VAL:HG21	1.65	0.78
2:R:30:VAL:HG13	2:R:66:ILE:HG23	1.64	0.78
1:S:108:VAL:HG21	1:S:137:VAL:HG22	1.63	0.78
1:A:90:ILE:HD12	1:A:137:VAL:HG21	1.65	0.78
2:D:236:ILE:HG13	1:E:251:LEU:CD2	2.14	0.78
1:G:52:PHE:CE1	2:H:32:ALA:N	2.51	0.78
1:K:253:LYS:HD3	1:M:287:PHE:CE1	2.19	0.78
1:O:250:LYS:O	1:O:254:ILE:HD12	1.83	0.78
2:P:43:ARG:CG	1:Q:66:GLU:N	2.46	0.78
1:S:272:TYR:CD1	2:T:258:THR:HG23	2.19	0.78
2:V:236:ILE:HG23	1:W:250:LYS:CD	2.12	0.78
2:V:243:ALA:CB	1:W:254:ILE:HG23	2.05	0.78
2:V:257:ILE:HG13	1:W:271:ILE:HB	1.64	0.78
2:B:268:LEU:HB2	2:D:267:LEU:O	1.84	0.78
1:C:90:ILE:HD12	1:C:137:VAL:HG21	1.65	0.78
1:C:256:ALA:HB1	1:C:260:ILE:CD1	2.14	0.78
2:D:250:GLN:O	1:E:265:ALA:HB1	1.84	0.78
1:G:98:ASP:CG	2:H:184:GLU:HG2	2.09	0.78
2:J:49:VAL:HG21	2:J:101:SER:HA	1.64	0.78
1:K:253:LYS:O	1:M:279:VAL:HG13	1.83	0.78
1:M:256:ALA:HB1	1:M:260:ILE:CD1	2.14	0.78
1:G:256:ALA:HB1	1:G:260:ILE:CD1	2.14	0.78
1:S:90:ILE:HD12	1:S:137:VAL:HG21	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:267:SER:OG	2:T:255:ARG:HA	1.83	0.78
2:B:235:LEU:HD11	2:B:239:ARG:HG2	1.65	0.77
2:P:235:LEU:HD11	2:P:239:ARG:HG2	1.65	0.77
1:A:256:ALA:HB1	1:A:260:ILE:CD1	2.14	0.77
2:D:235:LEU:HD11	2:D:239:ARG:HG2	1.65	0.77
2:F:30:VAL:HG13	2:F:66:ILE:HG23	1.64	0.77
2:P:43:ARG:HG2	1:Q:67:GLY:N	1.99	0.77
1:S:256:ALA:HB1	1:S:260:ILE:CD1	2.14	0.77
2:F:235:LEU:HD11	2:F:239:ARG:HG2	1.65	0.77
1:I:256:ALA:HB1	1:I:260:ILE:CD1	2.14	0.77
2:N:30:VAL:HG13	2:N:66:ILE:HG23	1.64	0.77
1:S:249:ILE:CG1	2:T:241:LEU:HD12	2.08	0.77
2:T:158:ALA:HB1	2:T:163:LEU:HB2	1.67	0.77
2:D:158:ALA:HB1	2:D:163:LEU:HB2	1.67	0.77
2:F:93:ARG:O	2:F:168:VAL:HG13	1.85	0.77
2:F:158:ALA:HB1	2:F:163:LEU:HB2	1.67	0.77
1:K:256:ALA:HB1	1:K:260:ILE:CD1	2.14	0.77
2:P:110:ILE:HA	1:Q:109:LEU:HD21	1.67	0.77
2:P:158:ALA:HB1	2:P:163:LEU:HB2	1.67	0.77
1:Q:221:GLN:HG2	2:R:212:ILE:HG23	1.65	0.77
2:R:257:ILE:HG21	1:S:278:LEU:CG	2.15	0.77
1:U:256:ALA:HB1	1:U:260:ILE:CD1	2.14	0.77
1:K:250:LYS:O	1:K:254:ILE:HD12	1.83	0.77
2:N:235:LEU:HD11	2:N:239:ARG:HG2	1.65	0.77
1:Q:256:ALA:HB1	1:Q:260:ILE:CD1	2.14	0.77
1:E:256:ALA:HB1	1:E:260:ILE:CD1	2.14	0.77
2:F:262:ALA:HB3	1:G:275:ALA:HB2	1.66	0.77
2:H:158:ALA:HB1	2:H:163:LEU:HB2	1.67	0.77
2:H:268:LEU:HD12	2:J:266:VAL:HG13	1.66	0.77
1:M:146:ALA:HB1	2:N:140:ILE:HG21	1.66	0.77
2:N:158:ALA:HB1	2:N:163:LEU:HB2	1.67	0.77
1:O:90:ILE:HD12	1:O:137:VAL:HG21	1.65	0.77
2:D:251:LEU:HA	1:E:265:ALA:HA	1.67	0.77
2:R:193:ALA:CB	1:S:219:GLN:HE22	1.97	0.77
2:R:237:GLU:HB3	1:S:294:LEU:HD13	1.67	0.77
2:T:93:ARG:O	2:T:168:VAL:HG13	1.85	0.77
1:C:253:LYS:HD3	1:E:279:VAL:HG13	1.66	0.77
2:D:236:ILE:CA	1:E:251:LEU:HD22	2.15	0.77
1:M:99:LEU:O	2:N:180:THR:CG2	2.33	0.77
2:T:179:PHE:CD2	1:U:205:GLN:HG3	2.20	0.77
2:D:93:ARG:O	2:D:168:VAL:HG13	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:93:ARG:O	2:H:168:VAL:HG13	1.85	0.76
1:K:235:ALA:HB1	2:L:228:LEU:CD1	2.14	0.76
1:K:236:LYS:NZ	2:L:227:SER:HA	2.00	0.76
2:P:93:ARG:O	2:P:168:VAL:HG13	1.85	0.76
1:Q:274:THR:HG21	2:R:259:TYR:CD2	2.20	0.76
2:V:93:ARG:O	2:V:168:VAL:HG13	1.85	0.76
1:Q:250:LYS:O	1:Q:254:ILE:HD12	1.83	0.76
2:R:93:ARG:O	2:R:168:VAL:HG13	1.85	0.76
1:C:270:ARG:O	2:D:258:THR:HA	1.84	0.76
2:F:266:VAL:O	2:H:264:GLN:HB3	1.85	0.76
1:K:253:LYS:O	1:M:279:VAL:HG11	1.86	0.76
2:R:119:LEU:HD21	2:R:163:LEU:HD13	1.68	0.76
1:S:260:ILE:CG2	2:T:248:ALA:CB	2.64	0.76
2:V:261:PRO:HA	1:W:275:ALA:HA	1.67	0.76
2:X:119:LEU:HD21	2:X:163:LEU:HD13	1.68	0.76
2:J:158:ALA:HB1	2:J:163:LEU:HB2	1.67	0.76
2:N:119:LEU:HD21	2:N:163:LEU:HD13	1.68	0.76
1:W:214:VAL:HG22	2:X:208:LYS:HG2	1.65	0.76
2:N:93:ARG:O	2:N:168:VAL:HG13	1.85	0.76
1:S:238:LEU:HD13	2:T:239:ARG:HD3	1.67	0.76
2:V:158:ALA:HB1	2:V:163:LEU:HB2	1.67	0.76
1:A:238:LEU:HD13	2:B:235:LEU:HD13	1.67	0.76
2:B:267:LEU:CD1	2:D:267:LEU:HD13	2.15	0.76
2:J:42:PHE:HB3	1:K:68:LEU:CD2	2.14	0.76
2:P:44:GLY:HA3	1:Q:48:ARG:HD3	1.68	0.76
1:Q:249:ILE:HD11	2:R:241:LEU:HD12	1.66	0.76
2:R:211:ILE:CG1	1:S:233:GLU:OE2	2.34	0.76
2:R:262:ALA:HB3	1:S:289:ARG:NH2	2.00	0.76
1:S:253:LYS:HB3	1:U:279:VAL:HG13	1.66	0.76
1:C:142:LYS:CE	2:D:140:ILE:HG21	2.16	0.76
1:S:249:ILE:HD12	2:T:237:GLU:C	2.11	0.76
1:S:253:LYS:HG2	2:T:241:LEU:HD22	1.65	0.76
2:B:269:GLN:HG3	2:D:269:GLN:HG2	1.68	0.76
2:B:221:ALA:HB1	1:C:242:LEU:HD22	1.68	0.75
2:B:240:LYS:HD3	1:E:282:LEU:HD13	1.68	0.75
1:C:253:LYS:HD3	1:E:279:VAL:CG2	2.15	0.75
1:G:99:LEU:HB3	2:H:180:THR:HG23	1.68	0.75
1:K:235:ALA:HB1	2:L:228:LEU:HD12	1.69	0.75
2:P:110:ILE:HG23	1:Q:109:LEU:HD21	1.68	0.75
1:U:246:PRO:CA	1:W:294:LEU:HG	2.15	0.75
2:B:119:LEU:HD21	2:B:163:LEU:HD13	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:271:ILE:HG23	2:J:259:TYR:CD2	2.21	0.75
2:L:197:ARG:NH1	1:M:222:ARG:HH22	1.84	0.75
2:V:119:LEU:HD21	2:V:163:LEU:HD13	1.68	0.75
2:J:93:ARG:O	2:J:168:VAL:HG13	1.85	0.75
2:P:40:ASP:O	1:Q:45:GLY:HA2	1.86	0.75
2:T:43:ARG:O	1:U:66:GLU:CB	2.33	0.75
2:B:93:ARG:O	2:B:168:VAL:HG13	1.85	0.75
2:B:158:ALA:HB1	2:B:163:LEU:HB2	1.67	0.75
2:J:239:ARG:HE	1:K:258:GLN:HE22	1.33	0.75
2:P:41:ARG:HB3	1:Q:43:VAL:CA	2.15	0.75
2:P:41:ARG:C	1:Q:43:VAL:CG1	2.55	0.75
2:P:85:LEU:HB3	1:Q:197:VAL:HG11	1.68	0.75
2:R:193:ALA:HB1	1:S:219:GLN:HE22	1.50	0.75
2:D:236:ILE:HA	1:E:251:LEU:HD22	1.67	0.75
2:D:268:LEU:HD22	1:E:272:TYR:CE2	2.22	0.75
2:F:119:LEU:HD21	2:F:163:LEU:HD13	1.68	0.75
2:F:270:LEU:HD11	2:H:260:LEU:HG	1.69	0.75
2:P:43:ARG:HG2	1:Q:66:GLU:O	1.86	0.75
2:P:119:LEU:HD21	2:P:163:LEU:HD13	1.68	0.75
2:X:93:ARG:O	2:X:168:VAL:HG13	1.85	0.75
2:P:43:ARG:CG	1:Q:66:GLU:CA	2.62	0.75
2:R:158:ALA:HB1	2:R:163:LEU:HB2	1.67	0.75
1:A:43:VAL:HB	2:X:41:ARG:O	1.86	0.75
1:E:256:ALA:HB1	1:E:260:ILE:HD12	1.69	0.75
2:L:93:ARG:O	2:L:168:VAL:HG13	1.85	0.75
2:P:39:PHE:O	1:Q:45:GLY:N	2.19	0.75
1:A:237:MET:HE1	2:X:218:SER:OG	1.85	0.75
1:C:256:ALA:HB1	1:C:260:ILE:HD12	1.69	0.74
1:K:221:GLN:OE1	2:L:216:GLY:CA	2.35	0.74
1:K:225:ILE:CA	2:L:219:LYS:HE2	2.17	0.74
1:K:253:LYS:HD3	1:M:287:PHE:CZ	2.22	0.74
1:M:99:LEU:O	2:N:180:THR:HG23	1.86	0.74
1:M:256:ALA:HB1	1:M:260:ILE:HD12	1.69	0.74
2:P:44:GLY:C	1:Q:66:GLU:CG	2.60	0.74
1:S:256:ALA:HB1	1:S:260:ILE:HD12	1.69	0.74
2:D:197:ARG:HA	1:E:219:GLN:NE2	2.00	0.74
2:D:250:GLN:C	1:E:265:ALA:CB	2.59	0.74
2:D:268:LEU:CD2	1:E:272:TYR:CE2	2.70	0.74
2:R:259:TYR:CE1	1:S:275:ALA:O	2.40	0.74
1:C:101:MET:HE3	2:D:180:THR:HG23	1.67	0.74
2:L:119:LEU:HD21	2:L:163:LEU:HD13	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:256:ALA:HB1	1:O:260:ILE:HD12	1.69	0.74
2:P:43:ARG:CG	1:Q:67:GLY:CA	2.58	0.74
2:P:85:LEU:HB2	1:Q:197:VAL:CG1	2.17	0.74
2:P:110:ILE:HA	1:Q:109:LEU:CG	2.18	0.74
2:B:269:GLN:HG3	2:D:269:GLN:CG	2.17	0.74
1:I:228:ALA:H	2:J:219:LYS:HZ1	1.35	0.74
1:W:256:ALA:HB1	1:W:260:ILE:HD12	1.69	0.74
2:D:119:LEU:HD21	2:D:163:LEU:HD13	1.68	0.74
2:J:119:LEU:HD21	2:J:163:LEU:HD13	1.68	0.74
1:K:236:LYS:HE3	2:L:227:SER:CB	2.17	0.74
2:P:161:PHE:HZ	1:Q:165:ARG:NH2	1.85	0.74
1:S:242:LEU:HD12	2:T:235:LEU:HD13	1.69	0.74
1:S:270:ARG:NH1	2:T:256:ASN:OD1	2.21	0.74
1:A:225:ILE:HA	2:B:219:LYS:HE2	1.69	0.74
2:H:119:LEU:HD21	2:H:163:LEU:HD13	1.68	0.74
1:M:58:VAL:CG2	2:N:32:ALA:HB1	2.18	0.74
1:G:256:ALA:HB1	1:G:260:ILE:HD12	1.69	0.74
2:P:125:GLU:CD	1:Q:161:SER:HB3	2.13	0.74
1:Q:104:ILE:HD12	1:Q:145:VAL:HG21	1.70	0.74
2:R:237:GLU:HB3	1:S:294:LEU:CD2	2.18	0.74
2:X:158:ALA:HB1	2:X:163:LEU:HB2	1.67	0.74
1:A:104:ILE:HD12	1:A:145:VAL:HG21	1.70	0.74
1:A:207:ALA:HB2	2:B:201:GLU:HB3	1.68	0.74
1:C:270:ARG:CD	2:D:271:PRO:HG3	2.18	0.74
1:G:135:SER:HB3	2:H:171:THR:HG23	1.69	0.74
1:I:256:ALA:HB1	1:I:260:ILE:HD12	1.69	0.74
2:L:158:ALA:HB1	2:L:163:LEU:HB2	1.67	0.74
2:P:121:SER:OG	1:Q:184:ILE:O	2.04	0.74
2:P:268:LEU:O	2:R:269:GLN:HB2	1.87	0.74
1:Q:267:SER:CB	2:R:252:SER:O	2.36	0.74
1:A:225:ILE:HD13	2:B:219:LYS:HG2	1.69	0.74
2:H:268:LEU:HB2	2:J:267:LEU:H	1.52	0.74
2:X:134:PHE:HB2	2:X:139:LEU:HD23	1.70	0.74
2:P:117:ARG:HD2	1:Q:87:PRO:CG	2.18	0.73
2:P:182:ALA:CB	1:Q:205:GLN:O	2.36	0.73
1:S:242:LEU:HD13	2:T:238:LEU:HD22	1.68	0.73
1:S:269:ASN:HD22	2:T:257:ILE:H	1.36	0.73
1:U:256:ALA:HB1	1:U:260:ILE:HD12	1.69	0.73
2:V:258:THR:HG21	1:W:272:TYR:HD2	1.53	0.73
2:B:204:GLU:HA	1:C:226:VAL:HG22	1.70	0.73
1:K:104:ILE:HD12	1:K:145:VAL:HG21	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:106:LEU:HD23	1:O:137:VAL:HG13	1.71	0.73
2:V:260:LEU:O	1:W:274:THR:HA	1.87	0.73
1:W:104:ILE:HD12	1:W:145:VAL:HG21	1.70	0.73
1:O:104:ILE:HD12	1:O:145:VAL:HG21	1.70	0.73
1:Q:256:ALA:HB1	1:Q:260:ILE:HD12	1.69	0.73
1:U:106:LEU:HD23	1:U:137:VAL:HG13	1.71	0.73
1:G:104:ILE:HD12	1:G:145:VAL:HG21	1.70	0.73
2:P:196:ALA:HB1	1:Q:220:GLU:HG2	1.70	0.73
1:S:99:LEU:HD21	2:T:140:ILE:HD13	1.70	0.73
1:C:272:TYR:HE1	2:D:258:THR:HG23	1.53	0.73
2:J:41:ARG:CG	1:K:43:VAL:CG1	2.65	0.73
1:M:106:LEU:HD23	1:M:137:VAL:HG13	1.71	0.73
2:B:134:PHE:HB2	2:B:139:LEU:HD23	1.70	0.73
1:C:104:ILE:HD12	1:C:145:VAL:HG21	1.70	0.73
1:E:106:LEU:HD23	1:E:137:VAL:HG13	1.71	0.73
1:G:249:ILE:CD1	1:I:294:LEU:HD21	2.18	0.73
2:J:42:PHE:CD1	1:K:68:LEU:HD11	2.24	0.73
1:M:135:SER:HB2	2:N:93:ARG:HH11	1.51	0.73
2:P:42:PHE:HB3	1:Q:67:GLY:C	2.13	0.73
2:P:43:ARG:CA	1:Q:65:ALA:C	2.61	0.73
1:S:104:ILE:HD12	1:S:145:VAL:HG21	1.70	0.73
1:S:290:GLY:O	1:U:283:GLN:OE1	2.05	0.73
2:H:134:PHE:HB2	2:H:139:LEU:HD23	1.70	0.73
2:J:134:PHE:HB2	2:J:139:LEU:HD23	1.70	0.73
2:J:260:LEU:HD13	2:J:268:LEU:HD21	1.71	0.73
1:S:106:LEU:HD23	1:S:137:VAL:HG13	1.71	0.73
2:V:134:PHE:HB2	2:V:139:LEU:HD23	1.70	0.73
1:A:256:ALA:HB1	1:A:260:ILE:HD12	1.69	0.73
1:A:274:THR:O	2:X:260:LEU:O	2.07	0.73
1:E:104:ILE:HD12	1:E:145:VAL:HG21	1.70	0.73
1:G:106:LEU:HD23	1:G:137:VAL:HG13	1.71	0.73
1:I:252:ARG:HH12	2:J:238:LEU:HD21	1.54	0.73
2:J:157:ARG:NH2	1:K:165:ARG:CZ	2.52	0.73
2:L:134:PHE:HB2	2:L:139:LEU:HD23	1.70	0.73
2:P:108:THR:HB	1:Q:111:ARG:HD2	1.71	0.73
2:T:119:LEU:HD21	2:T:163:LEU:HD13	1.68	0.73
2:D:94:ILE:HG12	2:D:154:LEU:HD21	1.71	0.73
2:D:250:GLN:HB2	1:E:265:ALA:HB2	1.71	0.73
1:M:104:ILE:HD12	1:M:145:VAL:HG21	1.70	0.73
2:N:94:ILE:HG12	2:N:154:LEU:HD21	1.71	0.73
2:R:134:PHE:HB2	2:R:139:LEU:HD23	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:260:LEU:HD13	2:R:268:LEU:HD21	1.71	0.73
1:C:142:LYS:HE3	2:D:140:ILE:HG21	1.70	0.73
2:D:225:ALA:HA	1:E:248:TYR:H	1.53	0.73
1:K:256:ALA:HB1	1:K:260:ILE:HD12	1.69	0.73
2:L:207:LYS:HG3	1:M:227:GLN:HA	1.70	0.73
2:N:260:LEU:HD13	2:N:268:LEU:HD21	1.71	0.73
2:P:84:ASP:HB2	1:Q:201:GLN:CD	2.13	0.73
1:Q:106:LEU:HD23	1:Q:137:VAL:HG13	1.71	0.73
2:D:260:LEU:HD13	2:D:268:LEU:HD21	1.71	0.72
2:H:260:LEU:HD13	2:H:268:LEU:HD21	1.71	0.72
2:J:240:LYS:HG2	1:M:282:LEU:HD13	1.71	0.72
2:N:134:PHE:HB2	2:N:139:LEU:HD23	1.70	0.72
2:P:134:PHE:HB2	2:P:139:LEU:HD23	1.70	0.72
1:S:94:THR:HG21	1:S:145:VAL:HB	1.71	0.72
2:T:134:PHE:HB2	2:T:139:LEU:HD23	1.70	0.72
2:V:258:THR:HB	1:W:272:TYR:CB	2.18	0.72
2:F:134:PHE:HB2	2:F:139:LEU:HD23	1.70	0.72
1:K:232:ALA:HA	2:L:224:ILE:HG12	1.70	0.72
2:P:43:ARG:HG3	1:Q:65:ALA:C	2.11	0.72
2:P:61:VAL:HA	1:Q:43:VAL:O	1.89	0.72
2:P:260:LEU:HD13	2:P:268:LEU:HD21	1.71	0.72
2:R:211:ILE:HG12	1:S:233:GLU:OE2	1.89	0.72
2:B:196:ALA:HB3	1:C:219:GLN:HE21	1.54	0.72
2:F:259:TYR:CE1	1:G:278:LEU:HB2	2.25	0.72
2:P:139:LEU:HD12	2:P:175:PHE:HE1	1.55	0.72
2:T:139:LEU:HD12	2:T:175:PHE:HE1	1.54	0.72
1:W:106:LEU:HD23	1:W:137:VAL:HG13	1.71	0.72
2:J:41:ARG:CG	1:K:43:VAL:O	2.36	0.72
1:K:106:LEU:HD23	1:K:137:VAL:HG13	1.71	0.72
1:Q:94:THR:HG21	1:Q:145:VAL:HB	1.72	0.72
2:R:266:VAL:O	2:T:265:SER:HB2	1.89	0.72
2:R:268:LEU:HB2	2:T:267:LEU:O	1.89	0.72
1:O:94:THR:HG21	1:O:145:VAL:HB	1.72	0.72
1:A:94:THR:HG21	1:A:145:VAL:HB	1.72	0.72
1:I:104:ILE:HD12	1:I:145:VAL:HG21	1.70	0.72
2:P:179:PHE:CD2	1:Q:201:GLN:HB3	2.24	0.72
2:T:41:ARG:HG3	1:U:44:GLU:HA	1.71	0.72
1:U:94:THR:HG21	1:U:145:VAL:HB	1.72	0.72
1:U:104:ILE:HD12	1:U:145:VAL:HG21	1.70	0.72
2:X:94:ILE:HG12	2:X:154:LEU:HD21	1.71	0.72
1:C:94:THR:HG21	1:C:145:VAL:HB	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:41:ARG:HG3	1:K:43:VAL:C	2.14	0.72
2:J:43:ARG:C	1:K:67:GLY:H	1.98	0.72
2:R:94:ILE:HG12	2:R:154:LEU:HD21	1.71	0.72
2:R:217:ASP:HB3	1:S:248:TYR:CE2	2.25	0.72
1:S:252:ARG:NH1	2:T:242:GLU:HG2	2.05	0.72
2:V:94:ILE:HG12	2:V:154:LEU:HD21	1.71	0.72
2:V:259:TYR:HD1	1:W:273:LEU:HB2	1.54	0.72
2:B:94:ILE:HG12	2:B:154:LEU:HD21	1.71	0.72
2:D:139:LEU:HD12	2:D:175:PHE:HE1	1.54	0.72
2:J:94:ILE:HG12	2:J:154:LEU:HD21	1.71	0.72
1:A:106:LEU:HD23	1:A:137:VAL:HG13	1.71	0.72
1:E:94:THR:HG21	1:E:145:VAL:HB	1.72	0.72
1:E:274:THR:HG21	1:G:280:LEU:O	1.90	0.72
2:P:43:ARG:HB3	1:Q:66:GLU:HA	1.59	0.72
2:P:110:ILE:HA	1:Q:109:LEU:HG	1.70	0.72
1:A:204:GLN:HB2	2:B:198:PHE:CG	2.25	0.71
1:E:247:GLY:O	1:E:251:LEU:HD23	1.91	0.71
1:M:121:TYR:CE2	2:N:32:ALA:C	2.68	0.71
2:P:41:ARG:CB	1:Q:44:GLU:O	2.37	0.71
1:A:282:LEU:N	1:W:277:ASN:ND2	2.38	0.71
1:C:106:LEU:HD23	1:C:137:VAL:HG13	1.71	0.71
2:J:128:LYS:HZ3	1:K:157:ARG:NH1	1.87	0.71
2:T:94:ILE:HG12	2:T:154:LEU:HD21	1.71	0.71
2:T:260:LEU:HD13	2:T:268:LEU:HD21	1.71	0.71
2:B:139:LEU:HD12	2:B:175:PHE:HE1	1.55	0.71
2:D:134:PHE:HB2	2:D:139:LEU:HD23	1.70	0.71
1:G:94:THR:HG21	1:G:145:VAL:HB	1.72	0.71
1:G:253:LYS:HE2	1:I:291:SER:CB	2.20	0.71
1:G:260:ILE:HD13	1:I:279:VAL:CG2	2.21	0.71
2:H:139:LEU:HD12	2:H:175:PHE:HE1	1.55	0.71
1:I:106:LEU:HD23	1:I:137:VAL:HG13	1.71	0.71
1:K:94:THR:HG21	1:K:145:VAL:HB	1.72	0.71
2:L:139:LEU:HD12	2:L:175:PHE:HE1	1.54	0.71
2:L:218:SER:HB2	1:M:238:LEU:CD2	2.21	0.71
2:P:121:SER:OG	1:Q:184:ILE:C	2.33	0.71
1:S:247:GLY:O	1:S:251:LEU:HD23	1.90	0.71
2:V:258:THR:N	1:W:271:ILE:O	2.22	0.71
1:A:101:MET:HE3	2:B:180:THR:CG2	2.21	0.71
2:F:139:LEU:HD12	2:F:175:PHE:HE1	1.54	0.71
2:H:94:ILE:HG12	2:H:154:LEU:HD21	1.71	0.71
2:L:94:ILE:HG12	2:L:154:LEU:HD21	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:268:LEU:HD22	2:R:270:LEU:HD21	1.73	0.71
1:G:58:VAL:HG23	2:H:32:ALA:HB1	1.71	0.71
1:G:247:GLY:O	1:G:251:LEU:HD23	1.90	0.71
2:H:268:LEU:HD22	2:H:270:LEU:HD21	1.73	0.71
1:I:94:THR:HG21	1:I:145:VAL:HB	1.72	0.71
1:M:94:THR:HG21	1:M:145:VAL:HB	1.72	0.71
1:M:131:ARG:HG2	2:N:72:ARG:HA	1.71	0.71
1:M:131:ARG:HG2	2:N:73:PRO:HD3	1.73	0.71
2:P:118:VAL:CG2	1:Q:109:LEU:HD22	2.19	0.71
2:P:268:LEU:HD22	2:P:270:LEU:HD21	1.73	0.71
1:Q:247:GLY:O	1:Q:251:LEU:HD23	1.90	0.71
2:X:260:LEU:HD13	2:X:268:LEU:HD21	1.71	0.71
1:C:269:ASN:ND2	2:D:257:ILE:HB	2.05	0.71
2:D:247:ILE:HD13	1:E:261:SER:OG	1.88	0.71
2:V:139:LEU:HD12	2:V:175:PHE:HE1	1.55	0.71
2:V:256:ASN:CB	1:W:270:ARG:HG2	2.20	0.71
1:W:247:GLY:O	1:W:251:LEU:HD23	1.90	0.71
2:J:43:ARG:HB2	1:K:68:LEU:N	2.04	0.71
1:M:175:PHE:CZ	2:N:167:ASP:HB3	2.25	0.71
2:N:268:LEU:HD22	2:N:270:LEU:HD21	1.73	0.71
1:A:67:GLY:CA	2:X:43:ARG:NH2	2.51	0.71
2:B:260:LEU:HD13	2:B:268:LEU:HD21	1.71	0.71
2:F:268:LEU:HD22	2:F:270:LEU:HD21	1.73	0.71
2:N:139:LEU:HD12	2:N:175:PHE:HE1	1.55	0.71
1:O:247:GLY:O	1:O:251:LEU:HD23	1.90	0.71
2:P:94:ILE:HG12	2:P:154:LEU:HD21	1.71	0.71
1:C:54:ARG:HH22	2:D:52:GLU:HB3	1.56	0.71
2:F:94:ILE:HG12	2:F:154:LEU:HD21	1.71	0.71
2:J:268:LEU:HD22	2:J:270:LEU:HD21	1.73	0.71
2:L:260:LEU:HD13	2:L:268:LEU:HD21	1.71	0.71
2:L:268:LEU:HD22	2:L:270:LEU:HD21	1.73	0.71
1:M:124:LEU:O	2:N:70:ARG:HB3	1.90	0.71
2:V:260:LEU:HD13	2:V:268:LEU:HD21	1.71	0.71
1:A:247:GLY:O	1:A:251:LEU:HD23	1.90	0.71
1:C:266:THR:OG1	2:D:252:SER:HB2	1.90	0.71
2:D:268:LEU:CD2	1:E:272:TYR:CD2	2.73	0.71
1:G:260:ILE:HD12	1:I:279:VAL:HG21	1.72	0.71
2:J:139:LEU:HD12	2:J:175:PHE:HE1	1.54	0.71
2:P:41:ARG:HD3	1:Q:42:THR:O	1.89	0.71
2:R:139:LEU:HD12	2:R:175:PHE:HE1	1.54	0.71
1:M:247:GLY:O	1:M:251:LEU:HD23	1.90	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:118:VAL:HA	1:Q:181:ASP:OD2	1.91	0.70
1:S:272:TYR:HD1	2:T:258:THR:HG23	1.56	0.70
2:B:268:LEU:HD22	2:B:270:LEU:HD21	1.73	0.70
2:D:240:LYS:CE	1:E:254:ILE:HG12	2.20	0.70
2:D:268:LEU:HD22	2:D:270:LEU:HD21	1.73	0.70
2:F:260:LEU:HD13	2:F:268:LEU:HD21	1.71	0.70
2:P:189:ALA:HB3	1:Q:212:PHE:CE1	2.26	0.70
1:S:259:ASN:HB2	2:T:249:TYR:CE1	2.26	0.70
1:U:247:GLY:O	1:U:251:LEU:HD23	1.90	0.70
1:W:94:THR:HG21	1:W:145:VAL:HB	1.72	0.70
2:D:182:ALA:HB1	1:E:205:GLN:CB	2.20	0.70
2:D:262:ALA:HB3	1:E:274:THR:HA	1.73	0.70
1:K:236:LYS:HE3	2:L:227:SER:OG	1.91	0.70
1:M:125:GLY:CA	2:N:70:ARG:HG2	2.20	0.70
2:P:125:GLU:HG3	1:Q:158:ALA:HA	1.72	0.70
2:R:57:LEU:HD12	2:R:57:LEU:O	1.92	0.70
2:R:262:ALA:HB3	1:S:289:ARG:HH22	1.57	0.70
1:A:294:LEU:HD21	1:W:249:ILE:CD1	2.22	0.70
1:C:131:ARG:HG2	2:D:71:SER:O	1.89	0.70
1:C:247:GLY:O	1:C:251:LEU:HD23	1.90	0.70
1:G:214:VAL:HG22	2:H:208:LYS:CG	2.20	0.70
1:I:247:GLY:O	1:I:251:LEU:HD23	1.90	0.70
2:J:57:LEU:HD12	2:J:57:LEU:O	1.92	0.70
2:D:178:GLU:OE1	1:E:202:VAL:HG22	1.91	0.70
1:E:274:THR:CG2	1:G:280:LEU:O	2.40	0.70
2:F:42:PHE:CD2	2:F:61:VAL:HG21	2.27	0.70
1:M:121:TYR:CE2	2:N:32:ALA:O	2.43	0.70
2:D:42:PHE:CD2	2:D:61:VAL:HG21	2.27	0.70
2:P:57:LEU:HD12	2:P:57:LEU:O	1.92	0.70
2:P:117:ARG:HG2	1:Q:107:ARG:CZ	2.22	0.70
2:P:117:ARG:CD	1:Q:87:PRO:HG2	2.20	0.70
2:V:57:LEU:O	2:V:57:LEU:HD12	1.92	0.70
2:X:139:LEU:HD12	2:X:175:PHE:HE1	1.55	0.70
2:B:57:LEU:HD12	2:B:57:LEU:O	1.92	0.70
2:N:42:PHE:CD2	2:N:61:VAL:HG21	2.27	0.70
1:S:260:ILE:CD1	2:T:248:ALA:HB3	2.21	0.70
2:T:57:LEU:HD12	2:T:57:LEU:O	1.92	0.70
1:U:214:VAL:HG22	2:V:208:LYS:HG2	1.74	0.70
1:C:272:TYR:CE1	2:D:258:THR:HG23	2.26	0.70
2:F:241:LEU:CD2	1:I:283:GLN:NE2	2.53	0.70
1:K:247:GLY:O	1:K:251:LEU:HD23	1.90	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:86:GLN:HE21	1:Q:201:GLN:HB2	1.57	0.70
2:P:108:THR:O	1:Q:111:ARG:CB	2.39	0.70
1:S:99:LEU:CD2	2:T:140:ILE:HD13	2.22	0.70
2:V:239:ARG:HG3	1:W:251:LEU:HD11	1.74	0.70
2:X:42:PHE:CD2	2:X:61:VAL:HG21	2.27	0.70
2:D:85:LEU:HD22	1:E:155:THR:HG22	1.71	0.70
2:D:254:SER:HB2	1:E:265:ALA:O	1.92	0.70
1:E:64:LEU:HD13	1:E:69:HIS:CD2	2.27	0.70
1:G:64:LEU:HD13	1:G:69:HIS:CD2	2.27	0.70
2:R:42:PHE:CD2	2:R:61:VAL:HG21	2.27	0.70
1:S:269:ASN:ND2	2:T:257:ILE:HD12	2.05	0.70
2:D:57:LEU:HD12	2:D:57:LEU:O	1.91	0.70
2:J:43:ARG:CB	1:K:68:LEU:N	2.55	0.70
2:P:39:PHE:HE1	1:Q:84:ARG:HD3	1.57	0.70
1:Q:249:ILE:HD13	1:S:294:LEU:CD2	2.21	0.70
1:S:64:LEU:HD13	1:S:69:HIS:CD2	2.27	0.70
2:T:42:PHE:CD2	2:T:61:VAL:HG21	2.27	0.70
1:U:64:LEU:HD13	1:U:69:HIS:CD2	2.27	0.70
1:A:207:ALA:CB	2:B:201:GLU:HB3	2.21	0.69
2:D:207:LYS:CD	1:E:227:GLN:HG2	2.22	0.69
2:D:270:LEU:HD22	1:E:272:TYR:OH	1.91	0.69
2:F:57:LEU:O	2:F:57:LEU:HD12	1.92	0.69
2:H:57:LEU:HD12	2:H:57:LEU:O	1.92	0.69
2:H:266:VAL:HB	2:J:264:GLN:HB3	1.74	0.69
1:S:274:THR:HB	2:T:261:PRO:CG	2.22	0.69
1:A:48:ARG:HG2	1:A:83:ILE:HD13	1.74	0.69
1:A:64:LEU:HD13	1:A:69:HIS:CD2	2.27	0.69
2:B:42:PHE:CD2	2:B:61:VAL:HG21	2.27	0.69
2:N:269:GLN:HE21	2:P:269:GLN:HG2	1.56	0.69
1:O:83:ILE:HG22	1:O:112:PRO:HG2	1.75	0.69
2:P:39:PHE:HE2	1:Q:44:GLU:HG2	1.55	0.69
2:P:85:LEU:CB	1:Q:197:VAL:HG12	2.21	0.69
2:V:42:PHE:CD2	2:V:61:VAL:HG21	2.27	0.69
1:W:64:LEU:HD13	1:W:69:HIS:CD2	2.27	0.69
1:W:83:ILE:HG22	1:W:112:PRO:HG2	1.74	0.69
1:A:45:GLY:HA3	2:X:45:VAL:H	1.55	0.69
1:G:48:ARG:HG2	1:G:83:ILE:HD13	1.74	0.69
1:G:52:PHE:HE1	2:H:32:ALA:CB	2.04	0.69
1:Q:274:THR:HG21	2:R:259:TYR:HD2	1.56	0.69
2:R:262:ALA:HB2	2:T:264:GLN:HG2	1.74	0.69
2:X:268:LEU:HD22	2:X:270:LEU:HD21	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:250:GLN:C	1:E:265:ALA:HB1	2.17	0.69
2:D:250:GLN:CB	1:E:265:ALA:HB2	2.22	0.69
1:E:83:ILE:HG22	1:E:112:PRO:HG2	1.75	0.69
1:G:135:SER:CB	2:H:171:THR:HG23	2.23	0.69
1:I:64:LEU:HD13	1:I:69:HIS:CD2	2.27	0.69
2:L:57:LEU:HD12	2:L:57:LEU:O	1.92	0.69
1:S:273:LEU:HD23	2:T:259:TYR:HB3	1.73	0.69
2:D:42:PHE:CD1	1:E:68:LEU:HD23	2.27	0.69
2:N:269:GLN:NE2	2:P:269:GLN:HG2	2.06	0.69
1:Q:274:THR:CG2	2:R:259:TYR:HD2	2.05	0.69
2:V:268:LEU:HD22	2:V:270:LEU:HD21	1.73	0.69
2:X:57:LEU:HD12	2:X:57:LEU:O	1.92	0.69
2:B:211:ILE:HD13	1:C:233:GLU:OE2	1.90	0.69
1:C:168:LEU:HD23	1:C:182:VAL:HG11	1.75	0.69
2:D:224:ILE:CB	1:E:248:TYR:CD1	2.74	0.69
1:K:83:ILE:HG22	1:K:112:PRO:HG2	1.75	0.69
2:R:259:TYR:CZ	1:S:275:ALA:O	2.46	0.69
1:S:168:LEU:HD23	1:S:182:VAL:HG11	1.75	0.69
1:U:83:ILE:HG22	1:U:112:PRO:HG2	1.75	0.69
1:C:83:ILE:HG22	1:C:112:PRO:HG2	1.75	0.69
1:C:293:SER:OG	1:E:283:GLN:CD	2.36	0.69
1:I:144:VAL:HG13	1:I:163:LEU:HD23	1.75	0.69
1:I:168:LEU:HD23	1:I:182:VAL:HG11	1.75	0.69
1:M:64:LEU:HD13	1:M:69:HIS:CD2	2.27	0.69
2:V:34:HIS:CD2	2:V:66:ILE:HG22	2.28	0.69
1:W:168:LEU:HD23	1:W:182:VAL:HG11	1.75	0.69
2:B:28:TYR:CD2	2:B:57:LEU:HD23	2.28	0.69
2:B:204:GLU:HA	1:C:226:VAL:HG21	1.73	0.69
2:B:272:GLN:CD	2:D:272:GLN:NE2	2.51	0.69
2:D:258:THR:HG22	2:D:259:TYR:H	1.58	0.69
1:E:48:ARG:HG2	1:E:83:ILE:HD13	1.74	0.69
1:E:168:LEU:HD23	1:E:182:VAL:HG11	1.75	0.69
1:G:168:LEU:HD23	1:G:182:VAL:HG11	1.75	0.69
2:H:241:LEU:HD11	1:K:283:GLN:HE21	1.54	0.69
1:K:239:GLY:HA3	2:L:228:LEU:HD21	1.75	0.69
2:L:42:PHE:CD2	2:L:61:VAL:HG21	2.27	0.69
1:M:175:PHE:CE1	2:N:166:ASP:HB2	2.27	0.69
2:N:57:LEU:O	2:N:57:LEU:HD12	1.92	0.69
1:Q:144:VAL:HG13	1:Q:163:LEU:HD23	1.75	0.69
2:R:28:TYR:CD2	2:R:57:LEU:HD23	2.28	0.69
2:R:237:GLU:HB2	1:S:294:LEU:CD1	2.20	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:259:TYR:CE1	1:U:278:LEU:HB2	2.28	0.69
2:T:268:LEU:HD22	2:T:270:LEU:HD21	1.73	0.69
2:V:229:ALA:HB2	1:W:244:LYS:HB3	1.74	0.69
2:X:28:TYR:CD2	2:X:57:LEU:HD23	2.28	0.69
2:B:240:LYS:NZ	1:E:282:LEU:HD13	2.06	0.69
1:I:48:ARG:HG2	1:I:83:ILE:HD13	1.75	0.69
1:I:224:LYS:O	2:J:219:LYS:HE2	1.91	0.69
2:J:43:ARG:CB	1:K:67:GLY:CA	2.70	0.69
2:J:258:THR:HG22	2:J:259:TYR:H	1.58	0.69
1:K:243:SER:HB2	1:M:296:LYS:HE2	1.75	0.69
2:P:42:PHE:CD2	2:P:61:VAL:HG21	2.27	0.69
1:S:252:ARG:HE	2:T:245:GLU:CG	2.05	0.69
1:S:272:TYR:HB2	2:T:258:THR:HG23	1.75	0.69
1:U:144:VAL:HG13	1:U:163:LEU:HD23	1.75	0.69
1:A:282:LEU:HD12	1:W:277:ASN:HB3	1.74	0.69
2:L:157:ARG:HH22	1:M:165:ARG:HH12	1.40	0.69
1:M:168:LEU:HD23	1:M:182:VAL:HG11	1.75	0.69
1:Q:64:LEU:HD13	1:Q:69:HIS:CD2	2.27	0.69
2:R:259:TYR:CE2	1:S:281:ASN:CG	2.71	0.69
1:S:144:VAL:HG13	1:S:163:LEU:HD23	1.75	0.69
2:T:34:HIS:CD2	2:T:66:ILE:HG22	2.28	0.69
1:A:168:LEU:HD23	1:A:182:VAL:HG11	1.75	0.68
2:J:34:HIS:CD2	2:J:66:ILE:HG22	2.28	0.68
1:K:48:ARG:HG2	1:K:83:ILE:HD13	1.74	0.68
1:K:64:LEU:HD13	1:K:69:HIS:CD2	2.27	0.68
1:M:139:GLU:CD	2:N:169:SER:HB3	2.18	0.68
2:P:258:THR:HG22	2:P:259:TYR:H	1.58	0.68
1:W:144:VAL:HG13	1:W:163:LEU:HD23	1.75	0.68
2:X:34:HIS:CD2	2:X:66:ILE:HG22	2.28	0.68
2:F:258:THR:HG22	2:F:259:TYR:H	1.58	0.68
2:J:42:PHE:CD2	2:J:61:VAL:HG21	2.27	0.68
2:R:258:THR:HG22	2:R:259:TYR:H	1.58	0.68
2:V:218:SER:OG	1:W:237:MET:SD	2.49	0.68
1:C:48:ARG:HG2	1:C:83:ILE:HD13	1.74	0.68
1:C:64:LEU:HD13	1:C:69:HIS:CD2	2.27	0.68
2:F:28:TYR:CD2	2:F:57:LEU:HD23	2.28	0.68
2:H:34:HIS:CD2	2:H:66:ILE:HG22	2.28	0.68
2:L:196:ALA:HB1	1:M:220:GLU:HG3	1.74	0.68
1:M:83:ILE:HG22	1:M:112:PRO:HG2	1.75	0.68
1:M:135:SER:HB2	2:N:93:ARG:HG2	1.76	0.68
1:O:144:VAL:HG13	1:O:163:LEU:HD23	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:252:ARG:HG3	2:R:245:GLU:OE1	1.93	0.68
2:R:34:HIS:CD2	2:R:66:ILE:HG22	2.28	0.68
2:V:28:TYR:CD2	2:V:57:LEU:HD23	2.28	0.68
2:B:34:HIS:CD2	2:B:66:ILE:HG22	2.28	0.68
1:C:270:ARG:NE	2:D:271:PRO:HG3	2.07	0.68
2:H:42:PHE:CD2	2:H:61:VAL:HG21	2.27	0.68
1:M:144:VAL:HG13	1:M:163:LEU:HD23	1.75	0.68
2:N:28:TYR:CD2	2:N:57:LEU:HD23	2.28	0.68
2:N:258:THR:HG22	2:N:259:TYR:H	1.58	0.68
2:P:129:SER:HB2	1:Q:158:ALA:HB2	1.75	0.68
1:S:48:ARG:HG2	1:S:83:ILE:HD13	1.74	0.68
1:A:200:LYS:O	2:B:198:PHE:CD2	2.45	0.68
1:A:210:ALA:C	2:B:205:GLN:HB3	2.19	0.68
1:C:144:VAL:HG13	1:C:163:LEU:HD23	1.75	0.68
2:D:28:TYR:CD2	2:D:57:LEU:HD23	2.28	0.68
1:I:252:ARG:NH1	2:J:238:LEU:HD11	2.09	0.68
2:L:228:LEU:HA	2:L:231:ALA:HB3	1.76	0.68
1:M:175:PHE:HE1	2:N:166:ASP:HB2	1.56	0.68
2:V:259:TYR:HA	1:W:273:LEU:C	2.18	0.68
2:B:258:THR:HG22	2:B:259:TYR:H	1.58	0.68
2:B:259:TYR:CE1	1:C:278:LEU:HB2	2.29	0.68
1:C:192:GLU:HB3	2:D:188:VAL:CG1	2.24	0.68
1:E:144:VAL:HG13	1:E:163:LEU:HD23	1.75	0.68
2:J:28:TYR:CD2	2:J:57:LEU:HD23	2.28	0.68
1:K:144:VAL:HG13	1:K:163:LEU:HD23	1.75	0.68
1:O:64:LEU:HD13	1:O:69:HIS:CD2	2.27	0.68
1:S:253:LYS:CG	2:T:241:LEU:CD1	2.62	0.68
1:U:221:GLN:NE2	2:V:212:ILE:O	2.27	0.68
1:G:58:VAL:CG2	2:H:32:ALA:HB3	2.24	0.68
2:H:270:LEU:HD11	2:J:260:LEU:CD2	2.21	0.68
1:I:274:THR:HG22	2:J:261:PRO:HB3	1.74	0.68
2:J:228:LEU:HA	2:J:231:ALA:HB3	1.76	0.68
1:M:121:TYR:CD2	2:N:32:ALA:HB3	2.27	0.68
1:O:256:ALA:CA	2:P:245:GLU:OE2	2.42	0.68
2:P:28:TYR:CD2	2:P:57:LEU:HD23	2.28	0.68
1:Q:48:ARG:HG2	1:Q:83:ILE:HD13	1.74	0.68
1:S:253:LYS:HG3	2:T:241:LEU:CD1	2.14	0.68
2:T:28:TYR:CD2	2:T:57:LEU:HD23	2.28	0.68
2:V:218:SER:HB3	1:W:237:MET:HE1	1.75	0.68
1:W:48:ARG:HG2	1:W:83:ILE:HD13	1.74	0.68
1:A:84:ARG:CB	2:X:108:THR:O	2.42	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:144:VAL:HG13	1:A:163:LEU:HD23	1.75	0.68
2:F:34:HIS:CD2	2:F:66:ILE:HG22	2.28	0.68
2:L:28:TYR:CD2	2:L:57:LEU:HD23	2.28	0.68
1:M:48:ARG:HG2	1:M:83:ILE:HD13	1.74	0.68
1:O:168:LEU:HD23	1:O:182:VAL:HG11	1.75	0.68
1:S:267:SER:OG	2:T:254:SER:O	2.07	0.68
1:S:274:THR:HB	2:T:261:PRO:HB3	1.74	0.68
2:D:34:HIS:CD2	2:D:66:ILE:HG22	2.28	0.68
1:I:83:ILE:HG22	1:I:112:PRO:HG2	1.74	0.68
2:L:34:HIS:CD2	2:L:66:ILE:HG22	2.28	0.68
2:L:221:ALA:HA	1:M:248:TYR:CB	2.23	0.68
2:P:34:HIS:CD2	2:P:66:ILE:HG22	2.28	0.68
2:X:258:THR:HG22	2:X:259:TYR:H	1.58	0.68
1:A:280:LEU:HD13	1:W:271:ILE:HG21	1.75	0.68
1:M:93:PRO:HG2	2:N:172:HIS:NE2	2.09	0.68
1:M:175:PHE:CZ	2:N:167:ASP:CB	2.77	0.68
2:N:34:HIS:CD2	2:N:66:ILE:HG22	2.28	0.68
2:R:260:LEU:O	1:S:275:ALA:HA	1.93	0.68
2:J:239:ARG:HE	1:K:258:GLN:NE2	1.91	0.67
2:N:228:LEU:HA	2:N:231:ALA:HB3	1.76	0.67
2:P:228:LEU:HA	2:P:231:ALA:HB3	1.76	0.67
1:A:203:ALA:HB1	2:B:198:PHE:C	2.19	0.67
1:C:274:THR:CG2	2:D:261:PRO:HB3	2.19	0.67
2:H:236:ILE:HG23	1:I:250:LYS:HD3	1.76	0.67
2:L:218:SER:CB	1:M:238:LEU:CD2	2.72	0.67
1:M:54:ARG:NE	2:N:54:THR:N	2.41	0.67
1:O:48:ARG:HG2	1:O:83:ILE:HD13	1.74	0.67
1:A:280:LEU:HB3	1:W:273:LEU:CD2	2.24	0.67
1:G:83:ILE:HG22	1:G:112:PRO:HG2	1.75	0.67
2:L:258:THR:HG22	2:L:259:TYR:H	1.58	0.67
1:Q:168:LEU:HD23	1:Q:182:VAL:HG11	1.75	0.67
2:R:228:LEU:HA	2:R:231:ALA:HB3	1.76	0.67
2:R:259:TYR:CZ	1:S:281:ASN:N	2.62	0.67
1:S:83:ILE:HG22	1:S:112:PRO:HG2	1.75	0.67
2:T:258:THR:HG22	2:T:259:TYR:H	1.58	0.67
1:U:48:ARG:HG2	1:U:83:ILE:HD13	1.74	0.67
2:X:88:VAL:HG13	2:X:174:THR:O	1.95	0.67
2:H:258:THR:HG22	2:H:259:TYR:H	1.58	0.67
1:K:168:LEU:HD23	1:K:182:VAL:HG11	1.75	0.67
2:P:85:LEU:HB3	1:Q:197:VAL:HG12	1.76	0.67
2:V:258:THR:CG2	1:W:272:TYR:HD2	2.07	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:88:VAL:HG13	2:D:174:THR:O	1.95	0.67
2:F:270:LEU:CD1	2:H:260:LEU:HD11	2.24	0.67
2:H:28:TYR:CD2	2:H:57:LEU:HD23	2.28	0.67
1:Q:83:ILE:HG22	1:Q:112:PRO:HG2	1.75	0.67
2:T:88:VAL:HG13	2:T:174:THR:O	1.95	0.67
2:B:270:LEU:HD13	1:C:272:TYR:CE2	2.30	0.67
2:D:228:LEU:HD13	1:E:251:LEU:CD2	2.14	0.67
2:D:247:ILE:HG23	1:E:261:SER:O	1.93	0.67
2:P:39:PHE:CE2	1:Q:44:GLU:CB	2.77	0.67
1:Q:253:LYS:NZ	2:R:241:LEU:HD13	2.10	0.67
1:S:140:VAL:HG11	1:S:164:ILE:O	1.95	0.67
1:A:83:ILE:HG22	1:A:112:PRO:HG2	1.75	0.67
1:A:98:ASP:O	2:B:183:VAL:HG13	1.93	0.67
2:D:207:LYS:CG	1:E:227:GLN:HG2	2.25	0.67
2:F:88:VAL:HG13	2:F:174:THR:O	1.95	0.67
2:F:228:LEU:HA	2:F:231:ALA:HB3	1.76	0.67
2:P:43:ARG:O	1:Q:66:GLU:CG	2.43	0.67
2:B:228:LEU:HA	2:B:231:ALA:HB3	1.76	0.67
2:B:270:LEU:HD22	1:C:272:TYR:CE2	2.30	0.67
2:H:88:VAL:HG13	2:H:174:THR:O	1.95	0.67
1:Q:140:VAL:HG11	1:Q:164:ILE:O	1.95	0.67
1:C:253:LYS:CD	1:E:279:VAL:HG22	2.25	0.67
1:G:260:ILE:CD1	1:I:279:VAL:CG2	2.73	0.67
1:I:224:LYS:C	2:J:219:LYS:HE2	2.19	0.67
2:R:237:GLU:HB3	1:S:294:LEU:HD22	1.77	0.67
1:U:168:LEU:HD23	1:U:182:VAL:HG11	1.75	0.67
2:V:239:ARG:C	1:W:254:ILE:HG21	2.20	0.67
2:J:43:ARG:CB	1:K:68:LEU:H	2.08	0.67
1:S:253:LYS:CD	2:T:241:LEU:HD13	2.25	0.67
2:T:221:ALA:HA	1:U:248:TYR:HB2	1.75	0.67
2:V:228:LEU:HA	2:V:231:ALA:HB3	1.76	0.67
2:D:224:ILE:HB	1:E:248:TYR:CG	2.30	0.66
2:D:224:ILE:CG2	1:E:248:TYR:CD1	2.77	0.66
1:G:144:VAL:HG13	1:G:163:LEU:HD23	1.75	0.66
2:P:42:PHE:N	1:Q:43:VAL:CG1	2.58	0.66
2:P:46:GLN:CB	1:Q:66:GLU:OE1	2.43	0.66
1:U:250:LYS:CE	1:W:291:SER:HB3	2.25	0.66
2:H:228:LEU:HA	2:H:231:ALA:HB3	1.76	0.66
2:J:88:VAL:HG13	2:J:174:THR:O	1.95	0.66
1:Q:112:PRO:HB2	1:Q:117:LEU:HD21	1.77	0.66
1:U:112:PRO:HB2	1:U:117:LEU:HD21	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:142:LYS:NZ	2:V:140:ILE:HG21	2.10	0.66
2:V:260:LEU:O	1:W:274:THR:CA	2.43	0.66
1:A:112:PRO:HB2	1:A:117:LEU:HD21	1.77	0.66
1:C:140:VAL:HG11	1:C:164:ILE:O	1.95	0.66
1:K:236:LYS:CE	2:L:227:SER:OG	2.43	0.66
2:L:88:VAL:HG13	2:L:174:THR:O	1.95	0.66
1:M:135:SER:CB	2:N:93:ARG:CG	2.74	0.66
1:M:140:VAL:HG11	1:M:164:ILE:O	1.95	0.66
1:O:140:VAL:HG11	1:O:164:ILE:O	1.95	0.66
2:P:42:PHE:N	1:Q:43:VAL:HG13	2.09	0.66
2:P:43:ARG:CB	1:Q:66:GLU:N	2.58	0.66
2:P:60:TRP:HZ2	1:Q:42:THR:HG22	1.59	0.66
2:R:259:TYR:HE2	1:S:281:ASN:OD1	1.73	0.66
1:W:140:VAL:HG11	1:W:164:ILE:O	1.95	0.66
1:A:210:ALA:CB	2:B:205:GLN:CB	2.71	0.66
1:S:112:PRO:HB2	1:S:117:LEU:HD21	1.77	0.66
1:A:197:VAL:HG22	2:B:191:GLN:HB3	1.77	0.66
2:D:246:ASP:HB3	1:E:262:LYS:HE2	1.78	0.66
1:E:112:PRO:HB2	1:E:117:LEU:HD21	1.77	0.66
2:R:88:VAL:HG13	2:R:174:THR:O	1.95	0.66
2:D:228:LEU:HA	2:D:231:ALA:HB3	1.76	0.66
2:D:240:LYS:HE2	1:E:254:ILE:HG12	1.76	0.66
1:E:140:VAL:HG11	1:E:164:ILE:O	1.95	0.66
1:O:256:ALA:HA	2:P:245:GLU:OE2	1.94	0.66
2:P:88:VAL:HG13	2:P:174:THR:O	1.95	0.66
1:G:98:ASP:O	2:H:184:GLU:CB	2.36	0.66
1:I:140:VAL:HG11	1:I:164:ILE:O	1.95	0.66
1:M:52:PHE:HD1	2:N:32:ALA:HB2	1.58	0.66
1:M:121:TYR:CZ	2:N:32:ALA:O	2.49	0.66
1:S:47:HIS:HA	1:S:81:TYR:O	1.96	0.66
1:A:47:HIS:HA	1:A:81:TYR:O	1.96	0.66
2:D:225:ALA:CB	1:E:242:LEU:HD22	2.26	0.66
1:M:54:ARG:CZ	2:N:54:THR:OG1	2.44	0.66
2:N:88:VAL:HG13	2:N:174:THR:O	1.95	0.66
2:P:40:ASP:C	1:Q:45:GLY:HA2	2.20	0.66
1:Q:221:GLN:NE2	2:R:212:ILE:CG2	2.47	0.66
1:W:47:HIS:HA	1:W:81:TYR:O	1.96	0.66
1:W:248:TYR:HA	1:W:251:LEU:HB2	1.78	0.66
2:X:228:LEU:HA	2:X:231:ALA:HB3	1.76	0.66
1:A:67:GLY:CA	2:X:43:ARG:CZ	2.73	0.66
1:C:47:HIS:HA	1:C:81:TYR:O	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:269:ASN:HA	2:D:257:ILE:O	1.95	0.66
1:G:140:VAL:HG11	1:G:164:ILE:O	1.95	0.66
1:I:112:PRO:HB2	1:I:117:LEU:HD21	1.77	0.66
2:T:228:LEU:HA	2:T:231:ALA:HB3	1.76	0.66
2:V:88:VAL:HG13	2:V:174:THR:O	1.95	0.66
2:B:88:VAL:HG13	2:B:174:THR:O	1.95	0.66
2:B:221:ALA:HA	1:C:248:TYR:CB	2.26	0.66
2:B:269:GLN:HG3	2:D:269:GLN:NE2	2.11	0.66
2:D:182:ALA:CB	1:E:205:GLN:CB	2.74	0.66
1:M:135:SER:HB2	2:N:93:ARG:CD	2.26	0.66
1:M:143:SER:HB2	2:N:143:ARG:NE	2.11	0.66
1:M:248:TYR:HA	1:M:251:LEU:HB2	1.78	0.66
1:S:248:TYR:HA	1:S:251:LEU:HB2	1.78	0.66
1:S:253:LYS:CE	2:T:241:LEU:CD1	2.74	0.66
1:S:253:LYS:CE	2:T:241:LEU:HD13	2.26	0.66
1:S:274:THR:HB	2:T:261:PRO:CB	2.25	0.66
1:W:112:PRO:HB2	1:W:117:LEU:HD21	1.77	0.66
1:C:253:LYS:HD3	1:E:279:VAL:CG1	2.27	0.65
2:D:235:LEU:O	1:E:251:LEU:HD13	1.96	0.65
1:G:123:ARG:O	2:H:71:SER:HB3	1.96	0.65
1:M:101:MET:HE3	2:N:180:THR:HG21	1.79	0.65
1:O:112:PRO:HB2	1:O:117:LEU:HD21	1.77	0.65
1:U:231:GLU:OE1	1:W:255:ARG:HD2	1.96	0.65
1:U:260:ILE:HG21	1:W:278:LEU:CD2	2.26	0.65
2:V:43:ARG:HD2	1:W:68:LEU:HD23	1.78	0.65
2:V:258:THR:OG1	1:W:272:TYR:CD2	2.48	0.65
1:E:47:HIS:HA	1:E:81:TYR:O	1.96	0.65
1:I:248:TYR:HA	1:I:251:LEU:HB2	1.78	0.65
1:K:140:VAL:HG11	1:K:164:ILE:O	1.95	0.65
2:P:185:ALA:C	1:Q:212:PHE:CE2	2.74	0.65
2:V:258:THR:HG22	2:V:259:TYR:H	1.58	0.65
1:A:140:VAL:HG11	1:A:164:ILE:O	1.95	0.65
1:G:112:PRO:HB2	1:G:117:LEU:HD21	1.77	0.65
1:S:249:ILE:CG1	2:T:238:LEU:HA	2.26	0.65
1:S:249:ILE:HD12	2:T:238:LEU:HA	1.77	0.65
1:O:47:HIS:HA	1:O:81:TYR:O	1.96	0.65
1:Q:248:TYR:HA	1:Q:251:LEU:HB2	1.78	0.65
1:U:248:TYR:HA	1:U:251:LEU:HB2	1.78	0.65
1:G:248:TYR:HA	1:G:251:LEU:HB2	1.78	0.65
1:K:47:HIS:HA	1:K:81:TYR:O	1.96	0.65
2:P:259:TYR:HE1	1:Q:278:LEU:HB2	1.58	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:272:TYR:O	2:T:259:TYR:HB3	1.95	0.65
1:C:112:PRO:HB2	1:C:117:LEU:HD21	1.77	0.65
1:I:168:LEU:HD23	1:I:182:VAL:CG1	2.27	0.65
2:J:43:ARG:HA	1:K:68:LEU:N	2.11	0.65
1:M:47:HIS:HA	1:M:81:TYR:O	1.96	0.65
1:U:47:HIS:HA	1:U:81:TYR:O	1.96	0.65
2:B:222:GLU:OE2	1:C:241:ALA:HB1	1.95	0.65
1:C:168:LEU:HD23	1:C:182:VAL:CG1	2.27	0.65
1:I:47:HIS:HA	1:I:81:TYR:O	1.96	0.65
1:M:139:GLU:HA	2:N:170:LEU:O	1.96	0.65
2:R:257:ILE:HG23	1:S:273:LEU:CD1	2.21	0.65
2:R:259:TYR:HE1	1:S:276:ASP:CA	2.03	0.65
2:T:200:VAL:HG22	1:U:223:GLN:HA	1.79	0.65
1:U:140:VAL:HG11	1:U:164:ILE:O	1.95	0.65
2:B:267:LEU:HD21	2:D:267:LEU:HD22	1.77	0.65
2:D:247:ILE:HG23	1:E:261:SER:HB2	1.79	0.65
1:K:168:LEU:HD23	1:K:182:VAL:CG1	2.27	0.65
1:M:146:ALA:HB3	2:N:140:ILE:CG2	2.23	0.65
1:O:248:TYR:HA	1:O:251:LEU:HB2	1.78	0.65
1:O:277:ASN:HD22	1:Q:282:LEU:HD12	1.62	0.65
1:A:168:LEU:HD23	1:A:182:VAL:CG1	2.27	0.65
1:A:294:LEU:CD2	1:W:249:ILE:HD13	2.25	0.65
1:G:193:TYR:HD1	2:H:188:VAL:HG22	1.59	0.65
1:K:112:PRO:HB2	1:K:117:LEU:HD21	1.77	0.65
2:P:108:THR:C	1:Q:111:ARG:HB3	2.21	0.65
1:Q:168:LEU:HD23	1:Q:182:VAL:CG1	2.27	0.65
2:V:268:LEU:CD1	2:X:261:PRO:CD	2.75	0.65
1:A:175:PHE:HZ	2:B:167:ASP:HB2	1.62	0.65
2:D:240:LYS:HG3	1:E:254:ILE:CG2	2.27	0.65
2:J:78:VAL:HG21	2:J:127:LEU:HD23	1.79	0.65
2:J:224:ILE:CG2	1:K:251:LEU:HG	2.27	0.65
2:P:41:ARG:HE	1:Q:44:GLU:H	1.43	0.65
2:P:117:ARG:HA	1:Q:107:ARG:HD3	1.79	0.65
1:Q:47:HIS:HA	1:Q:81:TYR:O	1.96	0.65
2:R:257:ILE:CG2	1:S:273:LEU:HD12	2.24	0.65
2:D:207:LYS:HG3	1:E:227:GLN:HG2	1.78	0.64
1:G:253:LYS:HE2	1:I:291:SER:HB3	1.77	0.64
1:M:112:PRO:HB2	1:M:117:LEU:HD21	1.77	0.64
1:O:168:LEU:HD23	1:O:182:VAL:CG1	2.27	0.64
2:P:157:ARG:NH2	1:Q:162:LEU:HD23	2.11	0.64
2:R:251:LEU:HD12	1:S:278:LEU:CD2	2.26	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:68:LEU:CD2	2:X:43:ARG:CD	2.73	0.64
1:A:102:VAL:HG13	1:A:188:SER:O	1.97	0.64
1:M:146:ALA:CB	2:N:140:ILE:CG2	2.71	0.64
2:P:78:VAL:HG21	2:P:127:LEU:HD23	1.79	0.64
2:P:108:THR:HB	1:Q:111:ARG:CD	2.27	0.64
2:P:185:ALA:HB1	1:Q:212:PHE:CZ	2.32	0.64
1:S:168:LEU:HD23	1:S:182:VAL:CG1	2.27	0.64
2:X:78:VAL:HG21	2:X:127:LEU:HD23	1.79	0.64
1:A:248:TYR:HA	1:A:251:LEU:HB2	1.78	0.64
1:C:299:LYS:C	1:E:288:THR:HG21	2.21	0.64
1:I:224:LYS:O	2:J:219:LYS:CE	2.44	0.64
1:O:112:PRO:HA	1:O:177:LEU:HD23	1.80	0.64
2:P:111:GLY:N	1:Q:85:ALA:HB3	2.11	0.64
1:U:102:VAL:HG13	1:U:188:SER:O	1.97	0.64
1:C:112:PRO:HA	1:C:177:LEU:HD23	1.80	0.64
2:D:256:ASN:HD22	1:E:268:GLN:HG3	1.63	0.64
1:G:52:PHE:CE1	2:H:32:ALA:CB	2.79	0.64
2:H:78:VAL:HG21	2:H:127:LEU:HD23	1.79	0.64
1:I:263:THR:HG21	2:J:249:TYR:HE1	1.56	0.64
1:M:102:VAL:HG13	1:M:188:SER:O	1.98	0.64
1:S:269:ASN:HD21	2:T:257:ILE:HD12	1.60	0.64
1:U:200:LYS:HA	2:V:195:ARG:HA	1.79	0.64
1:A:214:VAL:HG22	2:B:208:LYS:HG2	1.78	0.64
2:B:78:VAL:HG21	2:B:127:LEU:HD23	1.80	0.64
2:D:146:VAL:O	2:D:150:VAL:HG23	1.98	0.64
2:D:251:LEU:HD21	1:E:264:ILE:CG2	2.27	0.64
1:E:248:TYR:HA	1:E:251:LEU:HB2	1.78	0.64
1:G:47:HIS:HA	1:G:81:TYR:O	1.96	0.64
2:H:266:VAL:O	2:J:265:SER:HB2	1.96	0.64
1:I:102:VAL:HG13	1:I:188:SER:O	1.97	0.64
1:I:252:ARG:HG2	2:J:238:LEU:CD1	2.28	0.64
2:L:189:ALA:HB3	1:M:212:PHE:CG	2.31	0.64
1:M:52:PHE:CE1	2:N:32:ALA:HB2	2.33	0.64
2:R:233:ASP:HB2	1:S:296:LYS:HG2	1.78	0.64
1:U:112:PRO:HA	1:U:177:LEU:HD23	1.80	0.64
2:V:146:VAL:O	2:V:150:VAL:HG23	1.98	0.64
2:V:229:ALA:HB1	1:W:244:LYS:HB3	1.77	0.64
2:V:236:ILE:HG12	1:W:247:GLY:HA2	1.79	0.64
1:A:101:MET:HE3	2:B:180:THR:HG23	1.79	0.64
1:A:280:LEU:HD13	1:W:273:LEU:HD21	1.78	0.64
2:B:211:ILE:CG2	1:C:233:GLU:OE2	2.46	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:102:VAL:HG13	1:C:188:SER:O	1.97	0.64
2:D:250:GLN:C	1:E:265:ALA:HB2	2.23	0.64
2:P:44:GLY:N	1:Q:66:GLU:HG2	2.12	0.64
2:R:259:TYR:CE1	1:S:276:ASP:CA	2.74	0.64
1:S:104:ILE:HD12	1:S:145:VAL:CG2	2.28	0.64
2:T:43:ARG:CA	1:U:66:GLU:HB3	2.28	0.64
1:U:246:PRO:HB3	1:W:294:LEU:HG	1.79	0.64
1:A:221:GLN:OE1	1:A:224:LYS:HB2	1.98	0.64
2:D:35:ARG:HB2	2:D:103:LEU:HD11	1.80	0.64
1:G:249:ILE:HD13	1:I:294:LEU:CD2	2.26	0.64
2:J:208:LYS:HA	2:J:211:ILE:HD12	1.80	0.64
2:J:259:TYR:OH	1:K:278:LEU:HB2	1.98	0.64
1:K:102:VAL:HG13	1:K:188:SER:O	1.97	0.64
2:L:78:VAL:HG21	2:L:127:LEU:HD23	1.80	0.64
1:M:168:LEU:HD23	1:M:182:VAL:CG1	2.27	0.64
2:N:35:ARG:HB2	2:N:103:LEU:HD11	1.80	0.64
2:N:146:VAL:O	2:N:150:VAL:HG23	1.98	0.64
1:Q:252:ARG:O	2:R:245:GLU:CD	2.39	0.64
2:X:146:VAL:O	2:X:150:VAL:HG23	1.98	0.64
2:D:250:GLN:CB	1:E:265:ALA:CB	2.75	0.64
1:E:112:PRO:HA	1:E:177:LEU:HD23	1.80	0.64
1:E:168:LEU:HD23	1:E:182:VAL:CG1	2.27	0.64
2:F:146:VAL:O	2:F:150:VAL:HG23	1.98	0.64
1:G:221:GLN:OE1	1:G:224:LYS:HB2	1.98	0.64
1:I:221:GLN:OE1	1:I:224:LYS:HB2	1.98	0.64
2:L:204:GLU:HG2	1:M:226:VAL:HG21	1.79	0.64
1:M:175:PHE:HZ	2:N:167:ASP:HB3	1.63	0.64
1:S:260:ILE:CG2	2:T:248:ALA:HB1	2.17	0.64
2:T:78:VAL:HG21	2:T:127:LEU:HD23	1.80	0.64
1:W:62:THR:HG22	1:W:64:LEU:HD21	1.80	0.64
1:C:62:THR:HG22	1:C:64:LEU:HD21	1.80	0.64
2:D:225:ALA:HA	1:E:248:TYR:CB	2.27	0.64
2:F:35:ARG:HB2	2:F:103:LEU:HD11	1.80	0.64
1:G:104:ILE:HD12	1:G:145:VAL:CG2	2.28	0.64
1:I:104:ILE:HD12	1:I:145:VAL:CG2	2.28	0.64
1:M:221:GLN:OE1	1:M:224:LYS:HB2	1.98	0.64
1:Q:112:PRO:HA	1:Q:177:LEU:HD23	1.80	0.64
2:T:35:ARG:HB2	2:T:103:LEU:HD11	1.80	0.64
2:T:146:VAL:O	2:T:150:VAL:HG23	1.98	0.64
1:U:168:LEU:HD23	1:U:182:VAL:CG1	2.27	0.64
1:W:102:VAL:HG13	1:W:188:SER:O	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:208:LYS:HA	2:B:211:ILE:HD12	1.80	0.64
2:B:221:ALA:HA	1:C:248:TYR:HB2	1.80	0.64
1:C:248:TYR:HA	1:C:251:LEU:HB2	1.78	0.64
2:D:260:LEU:HD13	1:E:272:TYR:CE2	2.31	0.64
1:G:102:VAL:HG13	1:G:188:SER:O	1.97	0.64
1:I:62:THR:HG22	1:I:64:LEU:HD21	1.80	0.64
1:K:221:GLN:OE1	1:K:224:LYS:HB2	1.98	0.64
1:M:104:ILE:HG23	1:M:184:ILE:HG23	1.80	0.64
2:N:221:ALA:HB2	1:O:248:TYR:CD2	2.32	0.64
1:O:221:GLN:OE1	1:O:224:LYS:HB2	1.98	0.64
2:P:43:ARG:C	1:Q:65:ALA:C	2.66	0.64
1:U:250:LYS:HE3	1:W:291:SER:CB	2.28	0.64
1:W:104:ILE:HD12	1:W:145:VAL:CG2	2.28	0.64
2:X:35:ARG:HB2	2:X:103:LEU:HD11	1.80	0.64
1:C:221:GLN:OE1	1:C:224:LYS:HB2	1.98	0.63
1:C:253:LYS:HB3	1:E:279:VAL:HG21	1.81	0.63
1:G:168:LEU:HD23	1:G:182:VAL:CG1	2.27	0.63
1:M:58:VAL:HG23	2:N:32:ALA:HB1	1.79	0.63
2:P:41:ARG:HH21	1:Q:44:GLU:CD	2.06	0.63
2:P:157:ARG:HH21	1:Q:165:ARG:CZ	2.11	0.63
1:Q:102:VAL:HG13	1:Q:188:SER:O	1.97	0.63
2:R:208:LYS:HA	2:R:211:ILE:HD12	1.80	0.63
2:T:84:ASP:O	1:U:201:GLN:HG3	1.97	0.63
2:V:208:LYS:HA	2:V:211:ILE:HD12	1.80	0.63
1:A:104:ILE:HG23	1:A:184:ILE:HG23	1.80	0.63
1:C:104:ILE:HD12	1:C:145:VAL:CG2	2.28	0.63
2:D:182:ALA:CB	1:E:205:GLN:HB3	2.23	0.63
1:E:221:GLN:OE1	1:E:224:LYS:HB2	1.98	0.63
2:H:146:VAL:O	2:H:150:VAL:HG23	1.98	0.63
2:H:208:LYS:HA	2:H:211:ILE:HD12	1.80	0.63
1:K:248:TYR:HA	1:K:251:LEU:HB2	1.78	0.63
2:P:43:ARG:CG	1:Q:66:GLU:O	2.41	0.63
2:P:108:THR:CB	1:Q:111:ARG:HD3	2.29	0.63
1:Q:104:ILE:HD12	1:Q:145:VAL:CG2	2.28	0.63
2:R:267:LEU:CG	2:T:267:LEU:HD13	2.28	0.63
1:U:62:THR:HG22	1:U:64:LEU:HD21	1.80	0.63
1:W:168:LEU:HD23	1:W:182:VAL:CG1	2.27	0.63
1:A:291:SER:HB3	1:W:253:LYS:HE2	1.80	0.63
2:B:146:VAL:O	2:B:150:VAL:HG23	1.98	0.63
2:D:78:VAL:HG21	2:D:127:LEU:HD23	1.79	0.63
1:K:104:ILE:HD12	1:K:145:VAL:CG2	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:112:PRO:HA	1:K:177:LEU:HD23	1.80	0.63
1:M:112:PRO:HA	1:M:177:LEU:HD23	1.80	0.63
1:M:225:ILE:O	1:M:229:GLU:OE1	2.17	0.63
2:P:86:GLN:HE22	1:Q:202:VAL:HG23	1.63	0.63
2:R:146:VAL:O	2:R:150:VAL:HG23	1.98	0.63
1:S:112:PRO:HA	1:S:177:LEU:HD23	1.80	0.63
1:S:221:GLN:OE1	1:S:224:LYS:HB2	1.98	0.63
1:U:104:ILE:HD12	1:U:145:VAL:CG2	2.28	0.63
2:F:218:SER:OG	1:G:237:MET:HE1	1.99	0.63
2:J:42:PHE:CD1	1:K:68:LEU:CD1	2.81	0.63
1:Q:253:LYS:HZ2	2:R:241:LEU:HD13	1.63	0.63
1:W:221:GLN:OE1	1:W:224:LYS:HB2	1.98	0.63
1:A:104:ILE:HD12	1:A:145:VAL:CG2	2.28	0.63
2:B:185:ALA:HB1	1:C:212:PHE:CZ	2.34	0.63
1:I:104:ILE:HG23	1:I:184:ILE:HG23	1.80	0.63
2:J:35:ARG:HB2	2:J:103:LEU:HD11	1.80	0.63
1:K:62:THR:HG22	1:K:64:LEU:HD21	1.80	0.63
1:K:244:LYS:O	1:M:295:ILE:HD13	1.98	0.63
2:R:268:LEU:CB	2:T:267:LEU:O	2.46	0.63
1:U:204:GLN:N	2:V:198:PHE:HB3	2.14	0.63
1:U:221:GLN:OE1	1:U:224:LYS:HB2	1.98	0.63
2:V:247:ILE:HG12	1:W:257:ALA:CB	2.24	0.63
1:W:112:PRO:HA	1:W:177:LEU:HD23	1.80	0.63
1:A:200:LYS:CA	2:B:195:ARG:HA	2.29	0.63
2:B:95:LEU:HD12	2:B:167:ASP:O	1.99	0.63
1:C:272:TYR:HB2	2:D:259:TYR:O	1.98	0.63
2:D:95:LEU:HD12	2:D:167:ASP:O	1.99	0.63
2:D:208:LYS:HA	2:D:211:ILE:HD12	1.80	0.63
2:D:236:ILE:CG1	1:E:251:LEU:CD2	2.77	0.63
2:H:95:LEU:HD12	2:H:167:ASP:O	1.99	0.63
2:L:35:ARG:HB2	2:L:103:LEU:HD11	1.80	0.63
1:M:104:ILE:HD12	1:M:145:VAL:CG2	2.28	0.63
1:O:104:ILE:HG23	1:O:184:ILE:HG23	1.80	0.63
1:S:104:ILE:HG23	1:S:184:ILE:HG23	1.80	0.63
1:A:62:THR:HG22	1:A:64:LEU:HD21	1.80	0.63
1:A:225:ILE:O	1:A:229:GLU:OE1	2.17	0.63
1:A:294:LEU:CG	1:W:249:ILE:HG21	2.27	0.63
2:B:229:ALA:HA	1:C:245:ASN:HD22	1.63	0.63
1:E:104:ILE:HD12	1:E:145:VAL:CG2	2.28	0.63
2:F:78:VAL:HG21	2:F:127:LEU:HD23	1.80	0.63
1:K:104:ILE:HG23	1:K:184:ILE:HG23	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:102:VAL:HG13	1:O:188:SER:O	1.97	0.63
2:P:43:ARG:O	1:Q:66:GLU:HG3	1.99	0.63
2:P:108:THR:OG1	1:Q:111:ARG:HD3	1.98	0.63
2:P:146:VAL:O	2:P:150:VAL:HG23	1.98	0.63
2:X:208:LYS:HA	2:X:211:ILE:HD12	1.80	0.63
1:A:112:PRO:HA	1:A:177:LEU:HD23	1.80	0.63
1:E:102:VAL:HG13	1:E:188:SER:O	1.97	0.63
1:I:225:ILE:O	1:I:229:GLU:OE1	2.17	0.63
1:M:123:ARG:O	2:N:71:SER:CB	2.46	0.63
1:M:131:ARG:NH1	2:N:70:ARG:HD3	2.14	0.63
2:N:267:LEU:HG	2:P:267:LEU:HB3	1.79	0.63
1:O:225:ILE:O	1:O:229:GLU:OE1	2.17	0.63
2:P:41:ARG:CB	1:Q:43:VAL:CG1	2.71	0.63
2:R:200:VAL:HG13	1:S:226:VAL:CG1	2.29	0.63
1:S:102:VAL:HG13	1:S:188:SER:O	1.98	0.63
1:S:225:ILE:O	1:S:229:GLU:OE1	2.17	0.63
1:S:270:ARG:O	2:T:258:THR:OG1	2.17	0.63
1:A:221:GLN:HG2	2:B:215:GLU:HB3	1.81	0.63
2:H:35:ARG:HB2	2:H:103:LEU:HD11	1.80	0.63
1:K:225:ILE:O	1:K:229:GLU:OE1	2.17	0.63
2:P:35:ARG:HB2	2:P:103:LEU:HD11	1.80	0.63
1:S:269:ASN:HD21	2:T:257:ILE:CD1	2.11	0.63
1:S:274:THR:HG22	2:T:260:LEU:CA	2.29	0.63
1:U:246:PRO:CB	1:W:294:LEU:HG	2.29	0.63
2:D:239:ARG:HE	1:E:258:GLN:NE2	1.97	0.62
1:G:104:ILE:HG23	1:G:184:ILE:HG23	1.80	0.62
2:J:146:VAL:O	2:J:150:VAL:HG23	1.98	0.62
2:L:146:VAL:O	2:L:150:VAL:HG23	1.98	0.62
2:N:95:LEU:HD12	2:N:167:ASP:O	1.99	0.62
2:P:161:PHE:CD1	1:Q:181:ASP:HB2	2.34	0.62
2:P:259:TYR:CE1	1:Q:278:LEU:CB	2.81	0.62
1:Q:104:ILE:HG23	1:Q:184:ILE:HG23	1.80	0.62
2:R:78:VAL:HG21	2:R:127:LEU:HD23	1.79	0.62
2:T:208:LYS:HA	2:T:211:ILE:HD12	1.80	0.62
1:U:104:ILE:HG23	1:U:184:ILE:HG23	1.80	0.62
2:X:95:LEU:HD12	2:X:167:ASP:O	1.99	0.62
2:D:268:LEU:HD21	1:E:272:TYR:HD2	1.62	0.62
1:K:214:VAL:HG22	2:L:208:LYS:HG2	1.82	0.62
2:L:90:ILE:HB	2:L:127:LEU:HD21	1.82	0.62
2:B:90:ILE:HB	2:B:127:LEU:HD21	1.81	0.62
1:C:104:ILE:HG23	1:C:184:ILE:HG23	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:90:ILE:HB	2:F:127:LEU:HD21	1.82	0.62
2:F:95:LEU:HD12	2:F:167:ASP:O	1.99	0.62
2:F:259:TYR:HE1	1:G:278:LEU:H	1.46	0.62
2:L:208:LYS:HA	2:L:211:ILE:HD12	1.80	0.62
1:O:104:ILE:HD12	1:O:145:VAL:CG2	2.28	0.62
2:P:208:LYS:HA	2:P:211:ILE:HD12	1.80	0.62
2:T:43:ARG:O	1:U:66:GLU:CD	2.41	0.62
1:W:225:ILE:O	1:W:229:GLU:OE1	2.17	0.62
2:D:247:ILE:HD11	1:E:257:ALA:O	1.99	0.62
2:D:267:LEU:HD21	2:F:269:GLN:CD	2.24	0.62
1:E:104:ILE:HG23	1:E:184:ILE:HG23	1.80	0.62
2:F:268:LEU:CD1	2:H:261:PRO:CG	2.77	0.62
1:I:112:PRO:HA	1:I:177:LEU:HD23	1.80	0.62
1:O:62:THR:HG22	1:O:64:LEU:HD21	1.80	0.62
2:R:35:ARG:HB2	2:R:103:LEU:HD11	1.80	0.62
2:T:90:ILE:HB	2:T:127:LEU:HD21	1.81	0.62
1:U:210:ALA:HB3	2:V:205:GLN:HB2	1.81	0.62
1:A:253:LYS:HE2	1:C:287:PHE:CZ	2.35	0.62
1:C:253:LYS:CD	1:E:279:VAL:HG13	2.30	0.62
2:F:208:LYS:HA	2:F:211:ILE:HD12	1.80	0.62
1:G:225:ILE:O	1:G:229:GLU:OE1	2.17	0.62
1:I:270:ARG:O	2:J:259:TYR:HB3	2.00	0.62
2:L:95:LEU:HD12	2:L:167:ASP:O	1.99	0.62
2:N:78:VAL:HG21	2:N:127:LEU:HD23	1.79	0.62
2:P:43:ARG:HB2	1:Q:67:GLY:N	1.93	0.62
2:P:95:LEU:HD12	2:P:167:ASP:O	1.99	0.62
1:Q:221:GLN:OE1	1:Q:224:LYS:HB2	1.98	0.62
1:S:253:LYS:HB3	1:U:279:VAL:CG1	2.29	0.62
1:U:50:ILE:HA	1:U:64:LEU:HD12	1.82	0.62
2:V:90:ILE:HB	2:V:127:LEU:HD21	1.81	0.62
1:W:104:ILE:HG23	1:W:184:ILE:HG23	1.80	0.62
2:X:90:ILE:HB	2:X:127:LEU:HD21	1.82	0.62
1:C:142:LYS:NZ	2:D:140:ILE:HG21	2.14	0.62
1:C:268:GLN:HB3	2:D:255:ARG:O	2.00	0.62
1:E:225:ILE:O	1:E:229:GLU:OE1	2.17	0.62
1:G:62:THR:HG22	1:G:64:LEU:HD21	1.80	0.62
2:H:57:LEU:HD13	2:H:62:GLN:O	2.00	0.62
2:J:95:LEU:HD12	2:J:167:ASP:O	1.99	0.62
1:K:245:ASN:OD1	1:M:295:ILE:HD11	1.98	0.62
1:M:99:LEU:CB	2:N:180:THR:HG23	2.30	0.62
1:M:99:LEU:HD22	2:N:175:PHE:CE2	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:125:GLU:HG2	1:Q:158:ALA:HA	1.80	0.62
2:P:185:ALA:CB	1:Q:212:PHE:HZ	2.12	0.62
2:T:95:LEU:HD12	2:T:167:ASP:O	1.99	0.62
2:V:95:LEU:HD12	2:V:167:ASP:O	1.99	0.62
1:A:67:GLY:C	2:X:43:ARG:NE	2.58	0.62
2:D:236:ILE:CG1	1:E:251:LEU:HD22	2.30	0.62
2:H:258:THR:HB	1:I:272:TYR:CD2	2.35	0.62
1:I:50:ILE:HA	1:I:64:LEU:HD12	1.82	0.62
1:M:62:THR:HG22	1:M:64:LEU:HD21	1.80	0.62
2:N:208:LYS:HA	2:N:211:ILE:HD12	1.80	0.62
2:N:243:ALA:O	2:N:244:ALA:C	2.43	0.62
2:N:267:LEU:CD1	2:P:267:LEU:HD22	2.24	0.62
2:P:129:SER:CB	1:Q:158:ALA:HB2	2.29	0.62
1:Q:62:THR:HG22	1:Q:64:LEU:HD21	1.80	0.62
2:R:95:LEU:HD12	2:R:167:ASP:O	1.99	0.62
2:V:78:VAL:HG21	2:V:127:LEU:HD23	1.79	0.62
1:W:50:ILE:HA	1:W:64:LEU:HD12	1.82	0.62
1:A:50:ILE:HA	1:A:64:LEU:HD12	1.82	0.62
1:C:225:ILE:O	1:C:229:GLU:OE1	2.17	0.62
1:G:112:PRO:HA	1:G:177:LEU:HD23	1.80	0.62
2:J:43:ARG:CA	1:K:68:LEU:N	2.63	0.62
1:K:50:ILE:HA	1:K:64:LEU:HD12	1.82	0.62
2:P:40:ASP:C	1:Q:45:GLY:CA	2.73	0.62
2:P:243:ALA:O	2:P:244:ALA:C	2.43	0.62
1:Q:225:ILE:O	1:Q:229:GLU:OE1	2.17	0.62
2:R:243:ALA:O	2:R:244:ALA:C	2.43	0.62
1:S:62:THR:HG22	1:S:64:LEU:HD21	1.80	0.62
2:V:57:LEU:HD13	2:V:62:GLN:O	2.00	0.62
2:V:257:ILE:HA	1:W:271:ILE:C	2.24	0.62
1:C:100:GLN:HA	2:D:184:GLU:CG	2.29	0.62
2:D:228:LEU:CD1	1:E:251:LEU:CD2	2.73	0.62
2:F:57:LEU:HD13	2:F:62:GLN:O	2.00	0.62
1:M:121:TYR:HE2	2:N:32:ALA:HB3	1.59	0.62
1:Q:245:ASN:OD1	1:S:295:ILE:HD11	1.98	0.62
1:S:242:LEU:CD1	2:T:238:LEU:HD22	2.29	0.62
1:C:50:ILE:HA	1:C:64:LEU:HD12	1.82	0.62
2:F:38:ILE:HD12	2:F:50:VAL:HG21	1.82	0.62
2:F:243:ALA:O	2:F:244:ALA:C	2.43	0.62
2:J:243:ALA:O	2:J:244:ALA:C	2.43	0.62
2:R:38:ILE:HD12	2:R:50:VAL:HG21	1.82	0.62
1:S:260:ILE:HD13	2:T:248:ALA:HB3	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:243:ALA:O	2:T:244:ALA:C	2.43	0.62
1:W:124:LEU:HD13	1:W:128:TYR:HB2	1.82	0.62
1:A:261:SER:HB3	1:A:264:ILE:HD12	1.82	0.61
2:D:38:ILE:HD12	2:D:50:VAL:HG21	1.82	0.61
1:E:62:THR:HG22	1:E:64:LEU:HD21	1.80	0.61
2:L:38:ILE:HD12	2:L:50:VAL:HG21	1.82	0.61
1:M:50:ILE:HA	1:M:64:LEU:HD12	1.82	0.61
1:W:261:SER:HB3	1:W:264:ILE:HD12	1.82	0.61
1:A:282:LEU:HB2	1:W:277:ASN:HD22	1.65	0.61
2:B:35:ARG:HB2	2:B:103:LEU:HD11	1.80	0.61
2:B:57:LEU:HD13	2:B:62:GLN:O	2.00	0.61
1:G:50:ILE:HA	1:G:64:LEU:HD12	1.82	0.61
2:J:260:LEU:HD22	2:J:268:LEU:CD2	2.31	0.61
1:O:261:SER:HB3	1:O:264:ILE:HD12	1.82	0.61
2:P:41:ARG:CB	1:Q:43:VAL:CA	2.75	0.61
1:S:253:LYS:HG2	2:T:241:LEU:HD13	1.76	0.61
1:U:124:LEU:HD13	1:U:128:TYR:HB2	1.82	0.61
2:D:243:ALA:O	2:D:244:ALA:C	2.43	0.61
1:K:221:GLN:HG2	2:L:215:GLU:HB3	1.82	0.61
2:P:108:THR:C	1:Q:111:ARG:HD3	2.25	0.61
2:P:129:SER:HB2	1:Q:158:ALA:CB	2.29	0.61
1:Q:124:LEU:HD13	1:Q:128:TYR:HB2	1.82	0.61
2:T:38:ILE:HD12	2:T:50:VAL:HG21	1.82	0.61
2:T:57:LEU:HD13	2:T:62:GLN:O	2.00	0.61
2:V:35:ARG:HB2	2:V:103:LEU:HD11	1.80	0.61
2:X:243:ALA:O	2:X:244:ALA:C	2.43	0.61
1:A:84:ARG:HB3	2:X:108:THR:O	1.99	0.61
2:B:267:LEU:HG	2:D:267:LEU:CB	2.30	0.61
1:C:131:ARG:O	2:D:95:LEU:HD13	2.00	0.61
1:C:261:SER:HB3	1:C:264:ILE:HD12	1.83	0.61
1:E:50:ILE:HA	1:E:64:LEU:HD12	1.82	0.61
1:K:124:LEU:HD13	1:K:128:TYR:HB2	1.82	0.61
1:M:130:GLU:O	2:N:73:PRO:HB3	2.00	0.61
2:N:260:LEU:HD22	2:N:268:LEU:CD2	2.31	0.61
2:P:38:ILE:HD12	2:P:50:VAL:HG21	1.82	0.61
2:R:57:LEU:HD13	2:R:62:GLN:O	2.00	0.61
1:S:272:TYR:CD1	2:T:258:THR:CG2	2.82	0.61
1:U:261:SER:HB3	1:U:264:ILE:HD12	1.82	0.61
2:V:259:TYR:CD1	1:W:273:LEU:HB2	2.36	0.61
2:V:259:TYR:CE1	1:W:274:THR:O	2.51	0.61
2:B:86:GLN:O	2:B:88:VAL:HG23	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:240:LYS:CE	1:E:282:LEU:HD13	2.31	0.61
2:B:267:LEU:HD11	2:D:267:LEU:CD1	2.25	0.61
2:D:90:ILE:HB	2:D:127:LEU:HD21	1.82	0.61
1:G:124:LEU:HD13	1:G:128:TYR:HB2	1.82	0.61
2:J:90:ILE:HB	2:J:127:LEU:HD21	1.81	0.61
2:J:92:LEU:HD12	2:J:169:SER:C	2.26	0.61
1:O:50:ILE:HA	1:O:64:LEU:HD12	1.82	0.61
2:P:57:LEU:HD13	2:P:62:GLN:O	2.00	0.61
1:S:50:ILE:HA	1:S:64:LEU:HD12	1.82	0.61
2:T:260:LEU:HD22	2:T:268:LEU:CD2	2.30	0.61
2:V:86:GLN:O	2:V:88:VAL:HG23	2.01	0.61
2:V:259:TYR:CE2	1:W:274:THR:O	2.54	0.61
1:C:124:LEU:HD13	1:C:128:TYR:HB2	1.82	0.61
2:F:69:CYS:HA	2:F:98:PRO:HD2	1.83	0.61
1:G:257:ALA:HA	1:I:279:VAL:HG11	1.82	0.61
2:H:92:LEU:HD12	2:H:169:SER:C	2.26	0.61
2:H:243:ALA:O	2:H:244:ALA:C	2.43	0.61
1:I:257:ALA:HB2	1:K:279:VAL:HG11	1.82	0.61
2:J:41:ARG:CG	1:K:43:VAL:HG12	2.29	0.61
2:L:57:LEU:HD13	2:L:62:GLN:O	2.00	0.61
2:N:86:GLN:O	2:N:88:VAL:HG23	2.01	0.61
1:O:124:LEU:HD13	1:O:128:TYR:HB2	1.82	0.61
2:P:90:ILE:HB	2:P:127:LEU:HD21	1.82	0.61
2:R:251:LEU:HD12	1:S:278:LEU:HD23	1.83	0.61
1:S:274:THR:HG22	2:T:261:PRO:HD3	1.83	0.61
2:T:92:LEU:HD12	2:T:169:SER:C	2.26	0.61
1:U:225:ILE:O	1:U:229:GLU:OE1	2.17	0.61
2:V:92:LEU:HD12	2:V:169:SER:C	2.26	0.61
2:D:224:ILE:CG2	1:E:248:TYR:HD1	2.14	0.61
2:J:57:LEU:HD13	2:J:62:GLN:O	2.00	0.61
2:L:92:LEU:HD12	2:L:169:SER:C	2.26	0.61
2:P:132:ALA:HB2	1:Q:155:THR:HA	1.82	0.61
2:V:268:LEU:HD12	2:X:261:PRO:CD	2.30	0.61
2:X:57:LEU:HD13	2:X:62:GLN:O	2.00	0.61
2:X:78:VAL:CG2	2:X:127:LEU:HD23	2.31	0.61
2:X:260:LEU:HD22	2:X:268:LEU:CD2	2.30	0.61
2:B:243:ALA:O	2:B:244:ALA:C	2.43	0.61
2:D:92:LEU:HD12	2:D:169:SER:C	2.26	0.61
1:I:124:LEU:HD13	1:I:128:TYR:HB2	1.82	0.61
1:M:121:TYR:OH	2:N:70:ARG:NH2	2.34	0.61
2:P:39:PHE:CA	1:Q:45:GLY:HA3	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:109:SER:OG	1:Q:180:ASP:CG	2.43	0.61
1:U:250:LYS:CE	1:W:291:SER:CB	2.78	0.61
1:A:175:PHE:CZ	2:B:167:ASP:HB2	2.35	0.61
1:A:283:GLN:CB	1:W:276:ASP:HB3	2.28	0.61
2:D:235:LEU:HB3	1:E:251:LEU:HD11	1.82	0.61
2:H:38:ILE:HD12	2:H:50:VAL:HG21	1.82	0.61
2:H:78:VAL:CG2	2:H:127:LEU:HD23	2.31	0.61
1:K:261:SER:HB3	1:K:264:ILE:HD12	1.82	0.61
2:R:248:ALA:HB2	1:S:278:LEU:CD2	2.31	0.61
2:T:78:VAL:CG2	2:T:127:LEU:HD23	2.31	0.61
2:X:69:CYS:HA	2:X:98:PRO:HD2	1.83	0.61
1:A:196:ALA:HB1	2:B:192:GLU:CA	2.30	0.61
2:D:256:ASN:HB2	1:E:268:GLN:NE2	2.16	0.61
2:L:260:LEU:HD22	2:L:268:LEU:CD2	2.30	0.61
2:N:57:LEU:HD13	2:N:62:GLN:O	2.00	0.61
2:N:92:LEU:HD12	2:N:169:SER:C	2.26	0.61
1:Q:261:SER:HB3	1:Q:264:ILE:HD12	1.83	0.61
1:U:257:ALA:HB2	1:W:279:VAL:CG1	2.12	0.61
2:V:243:ALA:O	2:V:244:ALA:C	2.43	0.61
2:V:258:THR:HB	1:W:272:TYR:HA	1.81	0.61
2:X:86:GLN:O	2:X:88:VAL:HG23	2.01	0.61
2:B:260:LEU:HD22	2:B:268:LEU:CD2	2.31	0.60
1:C:101:MET:CE	2:D:180:THR:HG23	2.29	0.60
2:D:260:LEU:HD22	2:D:268:LEU:CD2	2.31	0.60
1:E:261:SER:HB3	1:E:264:ILE:HD12	1.82	0.60
2:H:260:LEU:HD22	2:H:268:LEU:CD2	2.31	0.60
1:I:261:SER:HB3	1:I:264:ILE:HD12	1.83	0.60
1:M:123:ARG:HG3	2:N:166:ASP:OD2	2.00	0.60
1:M:124:LEU:HD13	1:M:128:TYR:HB2	1.82	0.60
1:M:139:GLU:CD	2:N:169:SER:HB2	2.26	0.60
2:P:92:LEU:HD12	2:P:169:SER:C	2.26	0.60
2:R:86:GLN:O	2:R:88:VAL:HG23	2.01	0.60
2:R:259:TYR:CE2	1:S:280:LEU:O	2.53	0.60
1:S:124:LEU:HD13	1:S:128:TYR:HB2	1.82	0.60
2:V:78:VAL:CG2	2:V:127:LEU:HD23	2.31	0.60
2:F:78:VAL:CG2	2:F:127:LEU:HD23	2.31	0.60
1:I:232:ALA:CB	2:J:223:LEU:HB3	2.31	0.60
2:L:86:GLN:O	2:L:88:VAL:HG23	2.01	0.60
1:M:214:VAL:HG22	2:N:208:LYS:HG2	1.83	0.60
2:N:78:VAL:CG2	2:N:127:LEU:HD23	2.31	0.60
1:Q:50:ILE:HA	1:Q:64:LEU:HD12	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:69:CYS:HA	2:R:98:PRO:HD2	1.83	0.60
2:V:69:CYS:HA	2:V:98:PRO:HD2	1.83	0.60
2:D:69:CYS:HA	2:D:98:PRO:HD2	1.83	0.60
2:D:239:ARG:HE	1:E:258:GLN:CD	2.10	0.60
2:D:243:ALA:HB1	1:E:258:GLN:HA	1.81	0.60
2:R:78:VAL:CG2	2:R:127:LEU:HD23	2.31	0.60
2:R:92:LEU:HD12	2:R:169:SER:C	2.26	0.60
2:R:214:ALA:HB1	1:S:238:LEU:HD21	1.81	0.60
2:R:240:LYS:O	2:R:241:LEU:HD23	2.02	0.60
2:R:260:LEU:HD22	2:R:268:LEU:CD2	2.31	0.60
2:T:69:CYS:HA	2:T:98:PRO:HD2	1.83	0.60
2:V:251:LEU:HD22	1:W:271:ILE:HD12	1.82	0.60
2:X:38:ILE:HD12	2:X:50:VAL:HG21	1.83	0.60
1:A:124:LEU:HD13	1:A:128:TYR:HB2	1.82	0.60
2:B:240:LYS:CD	1:E:282:LEU:HD13	2.31	0.60
2:D:86:GLN:O	2:D:88:VAL:HG23	2.01	0.60
1:E:124:LEU:HD13	1:E:128:TYR:HB2	1.82	0.60
2:L:243:ALA:O	2:L:244:ALA:C	2.43	0.60
1:M:135:SER:HB2	2:N:93:ARG:HD2	1.81	0.60
1:Q:242:LEU:CD1	2:R:238:LEU:HD13	2.19	0.60
2:R:90:ILE:HB	2:R:127:LEU:HD21	1.81	0.60
2:V:260:LEU:HD22	2:V:268:LEU:CD2	2.31	0.60
2:B:78:VAL:CG2	2:B:127:LEU:HD23	2.31	0.60
1:G:261:SER:HB3	1:G:264:ILE:HD12	1.83	0.60
2:J:43:ARG:HA	1:K:67:GLY:O	2.00	0.60
2:N:69:CYS:HA	2:N:98:PRO:HD2	1.83	0.60
2:P:43:ARG:CB	2:P:43:ARG:HG3	2.22	0.60
2:P:78:VAL:CG2	2:P:127:LEU:HD23	2.31	0.60
1:Q:253:LYS:CE	2:R:241:LEU:HD13	2.31	0.60
2:R:215:GLU:HA	1:S:237:MET:HE1	1.83	0.60
1:S:249:ILE:HG12	2:T:241:LEU:CD1	2.13	0.60
2:B:240:LYS:O	2:B:241:LEU:HD23	2.02	0.60
2:F:260:LEU:HD22	2:F:268:LEU:CD2	2.31	0.60
2:F:270:LEU:HD11	2:H:260:LEU:CG	2.32	0.60
2:J:78:VAL:CG2	2:J:127:LEU:HD23	2.31	0.60
2:L:69:CYS:HA	2:L:98:PRO:HD2	1.83	0.60
2:L:78:VAL:CG2	2:L:127:LEU:HD23	2.31	0.60
2:N:90:ILE:HB	2:N:127:LEU:HD21	1.82	0.60
1:O:253:LYS:HG2	2:P:241:LEU:HD13	1.84	0.60
2:P:260:LEU:HD22	2:P:268:LEU:CD2	2.31	0.60
2:P:262:ALA:HB3	1:Q:275:ALA:HB1	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:92:LEU:HD12	2:B:169:SER:C	2.26	0.60
2:B:211:ILE:CD1	1:C:233:GLU:OE2	2.50	0.60
2:B:270:LEU:CD1	2:D:269:GLN:O	2.49	0.60
2:D:57:LEU:HD13	2:D:62:GLN:O	2.00	0.60
2:D:78:VAL:CG2	2:D:127:LEU:HD23	2.31	0.60
2:F:86:GLN:O	2:F:88:VAL:HG23	2.01	0.60
2:F:92:LEU:HD12	2:F:169:SER:C	2.26	0.60
2:F:240:LYS:O	2:F:241:LEU:HD23	2.02	0.60
1:K:225:ILE:HA	2:L:219:LYS:CD	2.31	0.60
2:P:41:ARG:CA	1:Q:43:VAL:CG1	2.78	0.60
2:P:86:GLN:O	2:P:88:VAL:HG23	2.01	0.60
2:P:259:TYR:HH	1:Q:278:LEU:C	2.09	0.60
2:T:86:GLN:O	2:T:88:VAL:HG23	2.01	0.60
2:V:240:LYS:O	2:V:241:LEU:HD23	2.02	0.60
2:V:257:ILE:C	1:W:271:ILE:O	2.45	0.60
2:H:43:ARG:HD2	1:I:68:LEU:CD2	2.29	0.60
2:H:86:GLN:O	2:H:88:VAL:HG23	2.01	0.60
1:I:47:HIS:ND1	1:I:80:ILE:HG22	2.17	0.60
2:J:237:GLU:OE1	1:M:283:GLN:NE2	2.35	0.60
2:J:240:LYS:NZ	1:M:283:GLN:HG2	2.16	0.60
2:L:157:ARG:NH2	1:M:165:ARG:HH12	1.99	0.60
2:P:179:PHE:HB2	1:Q:201:GLN:O	2.02	0.60
2:R:225:ALA:HB1	1:S:244:LYS:CB	2.32	0.60
2:R:269:GLN:O	2:R:270:LEU:HD23	2.02	0.60
1:S:99:LEU:HD21	2:T:140:ILE:HG21	1.82	0.60
2:V:38:ILE:HD12	2:V:50:VAL:HG21	1.82	0.60
2:V:260:LEU:N	1:W:273:LEU:O	2.34	0.60
2:D:270:LEU:HB2	2:F:271:PRO:HB3	1.83	0.60
2:H:69:CYS:HA	2:H:98:PRO:HD2	1.83	0.60
2:H:90:ILE:HB	2:H:127:LEU:HD21	1.82	0.60
2:H:240:LYS:O	2:H:241:LEU:HD23	2.02	0.60
2:J:269:GLN:O	2:J:270:LEU:HD23	2.02	0.60
2:N:219:LYS:HD2	2:N:219:LYS:C	2.27	0.60
2:P:41:ARG:HD2	1:Q:44:GLU:N	1.92	0.60
2:P:117:ARG:HD3	1:Q:87:PRO:HB2	1.83	0.60
2:P:269:GLN:O	2:P:270:LEU:HD23	2.02	0.60
1:Q:242:LEU:CD1	2:R:238:LEU:HD22	2.32	0.60
2:R:219:LYS:HD2	2:R:219:LYS:C	2.27	0.60
1:U:47:HIS:ND1	1:U:80:ILE:HG22	2.17	0.60
2:X:28:TYR:O	2:X:54:THR:HG23	2.02	0.60
1:A:47:HIS:ND1	1:A:80:ILE:HG22	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:28:TYR:O	2:D:54:THR:HG23	2.02	0.60
2:D:41:ARG:NH1	1:E:43:VAL:HG12	2.17	0.60
2:D:43:ARG:CB	2:D:43:ARG:HG2	2.22	0.60
2:D:225:ALA:CA	1:E:248:TYR:HB2	2.31	0.60
1:I:272:TYR:HB2	2:J:260:LEU:HA	1.83	0.60
2:J:28:TYR:O	2:J:54:THR:HG23	2.02	0.60
2:J:38:ILE:HD12	2:J:50:VAL:HG21	1.82	0.60
2:J:86:GLN:O	2:J:88:VAL:HG23	2.01	0.60
2:L:269:GLN:O	2:L:270:LEU:HD23	2.02	0.60
1:M:175:PHE:HZ	2:N:167:ASP:CB	2.15	0.60
2:N:28:TYR:O	2:N:54:THR:HG23	2.02	0.60
2:P:41:ARG:CB	1:Q:44:GLU:C	2.57	0.60
2:P:196:ALA:HB1	1:Q:220:GLU:HG3	1.82	0.60
1:S:253:LYS:HZ1	2:T:241:LEU:CD1	2.13	0.60
2:V:258:THR:O	1:W:273:LEU:N	2.34	0.60
2:X:269:GLN:O	2:X:270:LEU:HD23	2.02	0.60
2:B:38:ILE:HD12	2:B:50:VAL:HG21	1.82	0.59
2:D:219:LYS:C	2:D:219:LYS:HD2	2.27	0.59
2:F:28:TYR:O	2:F:54:THR:HG23	2.02	0.59
2:H:28:TYR:O	2:H:54:THR:HG23	2.02	0.59
2:J:240:LYS:O	2:J:241:LEU:HD23	2.02	0.59
1:M:143:SER:HB2	2:N:143:ARG:HE	1.66	0.59
2:R:208:LYS:O	2:R:212:ILE:HD12	2.02	0.59
1:S:108:VAL:HG21	1:S:137:VAL:CG2	2.32	0.59
1:S:249:ILE:CD1	2:T:238:LEU:HA	2.32	0.59
1:S:261:SER:HB3	1:S:264:ILE:HD12	1.83	0.59
1:S:272:TYR:CB	2:T:258:THR:HG23	2.31	0.59
2:X:92:LEU:HD12	2:X:169:SER:C	2.26	0.59
2:D:240:LYS:O	2:D:241:LEU:HD23	2.02	0.59
2:H:269:GLN:O	2:H:270:LEU:HD23	2.02	0.59
1:K:299:LYS:NZ	1:M:288:THR:HB	2.17	0.59
2:L:204:GLU:CG	1:M:226:VAL:HG11	2.32	0.59
2:L:221:ALA:HA	1:M:248:TYR:HB3	1.83	0.59
2:L:240:LYS:O	2:L:241:LEU:HD23	2.02	0.59
1:M:142:LYS:HE2	2:N:173:LEU:O	2.03	0.59
1:M:261:SER:HB3	1:M:264:ILE:HD12	1.82	0.59
2:P:69:CYS:HA	2:P:98:PRO:HD2	1.83	0.59
2:P:240:LYS:O	2:P:241:LEU:HD23	2.02	0.59
2:R:200:VAL:HG22	1:S:223:GLN:HA	1.84	0.59
1:S:290:GLY:O	1:U:283:GLN:HB3	2.02	0.59
2:V:28:TYR:O	2:V:54:THR:HG23	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:90:ILE:HD13	1:W:134:PRO:HA	1.85	0.59
1:W:108:VAL:HG21	1:W:137:VAL:CG2	2.32	0.59
2:B:219:LYS:HD2	2:B:219:LYS:C	2.27	0.59
2:D:262:ALA:CB	1:E:274:THR:HA	2.32	0.59
2:H:208:LYS:O	2:H:212:ILE:HD12	2.02	0.59
2:H:268:LEU:O	2:J:267:LEU:O	2.20	0.59
2:L:229:ALA:HA	1:M:245:ASN:HD22	1.67	0.59
2:N:38:ILE:HD12	2:N:50:VAL:HG21	1.82	0.59
2:P:186:LYS:CA	1:Q:212:PHE:CE2	2.83	0.59
1:U:225:ILE:HD13	2:V:219:LYS:HG2	1.84	0.59
1:U:260:ILE:HG21	1:W:278:LEU:HD22	1.85	0.59
1:W:47:HIS:ND1	1:W:80:ILE:HG22	2.17	0.59
2:B:208:LYS:O	2:B:212:ILE:HD12	2.03	0.59
2:B:221:ALA:CB	1:C:242:LEU:HD22	2.32	0.59
2:D:208:LYS:O	2:D:212:ILE:HD12	2.03	0.59
1:E:90:ILE:HD13	1:E:134:PRO:HA	1.85	0.59
2:F:219:LYS:HD2	2:F:219:LYS:C	2.27	0.59
1:G:90:ILE:HD13	1:G:134:PRO:HA	1.85	0.59
2:J:69:CYS:HA	2:J:98:PRO:HD2	1.83	0.59
1:K:47:HIS:ND1	1:K:80:ILE:HG22	2.17	0.59
2:P:87:ASN:OD1	1:Q:194:THR:CG2	2.50	0.59
2:P:109:SER:N	1:Q:111:ARG:HD3	2.17	0.59
1:Q:47:HIS:ND1	1:Q:80:ILE:HG22	2.17	0.59
2:R:248:ALA:CB	1:S:278:LEU:CD2	2.80	0.59
2:X:208:LYS:O	2:X:212:ILE:HD12	2.02	0.59
1:A:207:ALA:O	2:B:205:GLN:HG3	2.02	0.59
2:B:69:CYS:HA	2:B:98:PRO:HD2	1.83	0.59
1:C:108:VAL:HG21	1:C:137:VAL:CG2	2.32	0.59
2:F:269:GLN:O	2:F:270:LEU:HD23	2.02	0.59
2:N:208:LYS:O	2:N:212:ILE:HD12	2.02	0.59
2:P:219:LYS:HD2	2:P:219:LYS:C	2.27	0.59
1:Q:90:ILE:HD13	1:Q:134:PRO:HA	1.85	0.59
2:V:219:LYS:HD2	2:V:219:LYS:C	2.27	0.59
2:X:219:LYS:HD2	2:X:219:LYS:C	2.27	0.59
2:X:240:LYS:O	2:X:241:LEU:HD23	2.02	0.59
1:G:52:PHE:HE1	2:H:32:ALA:N	1.99	0.59
1:K:221:GLN:NE2	2:L:216:GLY:H	2.00	0.59
2:L:28:TYR:O	2:L:54:THR:HG23	2.02	0.59
1:M:131:ARG:HB3	2:N:71:SER:O	2.03	0.59
2:N:269:GLN:NE2	2:P:269:GLN:CD	2.60	0.59
2:P:108:THR:CB	1:Q:111:ARG:CD	2.80	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:208:LYS:O	2:P:212:ILE:HD12	2.03	0.59
2:V:256:ASN:HB2	1:W:270:ARG:CA	2.31	0.59
2:B:106:ILE:HA	2:B:110:ILE:HD12	1.85	0.59
2:B:267:LEU:CG	2:D:267:LEU:HD13	2.33	0.59
2:D:106:ILE:HA	2:D:110:ILE:HD12	1.85	0.59
2:D:229:ALA:N	1:E:247:GLY:HA3	2.18	0.59
1:I:50:ILE:HG13	1:I:79:ILE:HD12	1.84	0.59
1:S:47:HIS:ND1	1:S:80:ILE:HG22	2.17	0.59
1:U:108:VAL:HG21	1:U:137:VAL:CG2	2.32	0.59
2:V:268:LEU:CD1	2:X:261:PRO:HD3	2.33	0.59
2:V:269:GLN:O	2:V:270:LEU:HD23	2.02	0.59
1:A:108:VAL:HG21	1:A:137:VAL:CG2	2.32	0.59
1:A:285:GLU:HG3	1:W:289:ARG:NH1	2.18	0.59
2:B:269:GLN:O	2:B:270:LEU:HD23	2.02	0.59
2:F:106:ILE:HA	2:F:110:ILE:HD12	1.85	0.59
2:L:219:LYS:HD2	2:L:219:LYS:C	2.27	0.59
1:Q:50:ILE:HG13	1:Q:79:ILE:HD12	1.84	0.59
2:R:28:TYR:O	2:R:54:THR:HG23	2.02	0.59
1:S:90:ILE:HD13	1:S:134:PRO:HA	1.85	0.59
2:X:106:ILE:HA	2:X:110:ILE:HD12	1.85	0.59
1:A:142:LYS:HE3	2:B:140:ILE:HD13	1.85	0.59
1:C:50:ILE:HG13	1:C:79:ILE:HD12	1.84	0.59
2:D:260:LEU:HD13	1:E:272:TYR:CD2	2.37	0.59
1:G:50:ILE:HG13	1:G:79:ILE:HD12	1.84	0.59
1:G:108:VAL:HG21	1:G:137:VAL:CG2	2.32	0.59
1:I:132:VAL:HG11	1:I:177:LEU:HD12	1.85	0.59
1:I:224:LYS:O	2:J:219:LYS:NZ	2.36	0.59
2:J:106:ILE:HA	2:J:110:ILE:HD12	1.85	0.59
2:L:208:LYS:O	2:L:212:ILE:HD12	2.03	0.59
1:M:175:PHE:CZ	2:N:95:LEU:HD13	2.38	0.59
2:P:30:VAL:HG22	2:P:66:ILE:HG12	1.85	0.59
2:R:269:GLN:HG3	2:T:269:GLN:NE2	2.17	0.59
1:S:272:TYR:C	2:T:259:TYR:O	2.46	0.59
2:T:106:ILE:HA	2:T:110:ILE:HD12	1.85	0.59
1:U:132:VAL:HG11	1:U:177:LEU:HD12	1.85	0.59
1:A:281:ASN:HA	1:W:274:THR:CG2	2.32	0.59
1:E:47:HIS:ND1	1:E:80:ILE:HG22	2.17	0.59
1:E:132:VAL:HG11	1:E:177:LEU:HD12	1.85	0.59
1:E:164:ILE:CD1	1:E:184:ILE:HD11	2.31	0.59
1:G:47:HIS:ND1	1:G:80:ILE:HG22	2.17	0.59
2:J:85:LEU:CD1	1:K:155:THR:HG22	2.30	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:208:LYS:O	2:J:212:ILE:HD12	2.02	0.59
1:K:50:ILE:HG13	1:K:79:ILE:HD12	1.84	0.59
2:L:197:ARG:NH1	1:M:222:ARG:NH2	2.51	0.59
1:M:50:ILE:HG13	1:M:79:ILE:HD12	1.85	0.59
1:M:108:VAL:HG21	1:M:137:VAL:CG2	2.32	0.59
1:O:90:ILE:HD13	1:O:134:PRO:HA	1.85	0.59
1:S:260:ILE:CG2	2:T:248:ALA:HB3	2.32	0.59
2:V:268:LEU:HD12	2:X:261:PRO:HD2	1.84	0.59
2:D:269:GLN:O	2:D:270:LEU:HD23	2.02	0.58
2:J:240:LYS:CE	1:M:282:LEU:HB3	2.33	0.58
2:P:41:ARG:HE	1:Q:44:GLU:N	1.97	0.58
2:P:107:PHE:CE1	1:Q:84:ARG:HB3	2.38	0.58
2:P:121:SER:CB	1:Q:184:ILE:O	2.51	0.58
2:R:90:ILE:HG21	2:R:170:LEU:HD22	1.85	0.58
2:T:219:LYS:HD2	2:T:219:LYS:C	2.27	0.58
2:V:30:VAL:HG22	2:V:66:ILE:HG12	1.85	0.58
1:A:84:ARG:CA	2:X:109:SER:HA	2.33	0.58
1:C:47:HIS:ND1	1:C:80:ILE:HG22	2.17	0.58
1:C:290:GLY:HA2	1:E:283:GLN:HB2	1.84	0.58
1:E:108:VAL:HG21	1:E:137:VAL:CG2	2.32	0.58
2:F:270:LEU:HD22	1:G:272:TYR:HD2	1.66	0.58
1:G:132:VAL:HG11	1:G:177:LEU:HD12	1.85	0.58
1:I:221:GLN:NE2	2:J:216:GLY:N	2.51	0.58
2:J:30:VAL:HG22	2:J:66:ILE:HG12	1.85	0.58
2:J:219:LYS:HD2	2:J:219:LYS:C	2.27	0.58
2:N:90:ILE:HG21	2:N:170:LEU:HD22	1.85	0.58
2:N:240:LYS:O	2:N:241:LEU:HD23	2.02	0.58
2:N:269:GLN:O	2:N:270:LEU:HD23	2.02	0.58
1:O:50:ILE:HG13	1:O:79:ILE:HD12	1.84	0.58
1:Q:164:ILE:CD1	1:Q:184:ILE:HD11	2.31	0.58
2:R:215:GLU:HG2	1:S:237:MET:CE	2.30	0.58
2:T:240:LYS:O	2:T:241:LEU:HD23	2.02	0.58
2:T:269:GLN:O	2:T:270:LEU:HD23	2.02	0.58
1:U:50:ILE:HG13	1:U:79:ILE:HD12	1.84	0.58
1:A:50:ILE:HG13	1:A:79:ILE:HD12	1.85	0.58
2:H:219:LYS:HD2	2:H:219:LYS:C	2.27	0.58
1:I:106:LEU:HD12	1:I:183:ALA:C	2.29	0.58
1:O:106:LEU:HD12	1:O:183:ALA:C	2.28	0.58
1:O:132:VAL:HG11	1:O:177:LEU:HD12	1.85	0.58
2:P:39:PHE:CE1	1:Q:84:ARG:HD3	2.37	0.58
2:P:182:ALA:HB3	1:Q:205:GLN:HB3	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:108:VAL:HG21	1:Q:137:VAL:CG2	2.32	0.58
1:Q:256:ALA:HB2	2:R:245:GLU:CD	2.28	0.58
1:S:50:ILE:HG13	1:S:79:ILE:HD12	1.84	0.58
1:C:106:LEU:HD12	1:C:183:ALA:C	2.28	0.58
1:C:256:ALA:HB1	1:C:260:ILE:HD11	1.86	0.58
2:D:185:ALA:HA	2:D:188:VAL:HB	1.85	0.58
2:F:208:LYS:O	2:F:212:ILE:HD12	2.03	0.58
1:K:221:GLN:CD	2:L:216:GLY:N	2.61	0.58
1:K:243:SER:HB2	1:M:296:LYS:CE	2.33	0.58
2:N:158:ALA:HB1	2:N:163:LEU:CB	2.34	0.58
1:O:47:HIS:ND1	1:O:80:ILE:HG22	2.17	0.58
2:R:257:ILE:HB	1:S:278:LEU:CD1	2.31	0.58
1:S:135:SER:HB3	2:T:93:ARG:CZ	2.33	0.58
2:T:90:ILE:HG21	2:T:170:LEU:HD22	1.85	0.58
2:T:208:LYS:O	2:T:212:ILE:HD12	2.02	0.58
2:X:92:LEU:HD12	2:X:169:SER:O	2.04	0.58
1:A:106:LEU:HD12	1:A:183:ALA:C	2.28	0.58
2:B:90:ILE:HG21	2:B:170:LEU:HD22	1.85	0.58
2:F:30:VAL:HG22	2:F:66:ILE:HG12	1.85	0.58
1:K:106:LEU:HD12	1:K:183:ALA:C	2.28	0.58
1:K:242:LEU:O	1:M:294:LEU:CD1	2.41	0.58
1:M:47:HIS:ND1	1:M:80:ILE:HG22	2.17	0.58
1:M:124:LEU:HA	2:N:71:SER:H	1.68	0.58
1:M:142:LYS:CE	2:N:173:LEU:O	2.51	0.58
2:P:106:ILE:HA	2:P:110:ILE:HD12	1.85	0.58
2:P:110:ILE:N	1:Q:85:ALA:HB2	2.19	0.58
2:P:117:ARG:CD	1:Q:87:PRO:CG	2.80	0.58
2:R:158:ALA:HB1	2:R:163:LEU:CB	2.34	0.58
2:V:185:ALA:HA	2:V:188:VAL:HB	1.86	0.58
2:V:208:LYS:O	2:V:212:ILE:HD12	2.02	0.58
1:A:132:VAL:HG11	1:A:177:LEU:HD12	1.85	0.58
1:C:132:VAL:HG11	1:C:177:LEU:HD12	1.85	0.58
1:C:164:ILE:CD1	1:C:184:ILE:HD11	2.31	0.58
2:D:243:ALA:HB2	1:E:258:GLN:HA	1.84	0.58
2:H:30:VAL:HG22	2:H:66:ILE:HG12	1.85	0.58
1:I:235:ALA:HB3	2:J:227:SER:OG	2.03	0.58
2:L:185:ALA:HA	2:L:188:VAL:HB	1.86	0.58
1:M:54:ARG:CD	2:N:54:THR:H	2.16	0.58
1:M:214:VAL:CG2	2:N:205:GLN:HB3	2.34	0.58
2:P:28:TYR:O	2:P:54:THR:HG23	2.02	0.58
1:Q:252:ARG:HG3	2:R:245:GLU:CD	2.28	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:239:GLY:HA2	2:T:235:LEU:HB2	1.84	0.58
2:T:28:TYR:O	2:T:54:THR:HG23	2.02	0.58
2:V:229:ALA:HB2	1:W:244:LYS:CB	2.33	0.58
1:W:50:ILE:HG13	1:W:79:ILE:HD12	1.84	0.58
1:W:106:LEU:HD12	1:W:183:ALA:C	2.28	0.58
2:X:30:VAL:HG22	2:X:66:ILE:HG12	1.85	0.58
2:B:30:VAL:HG22	2:B:66:ILE:HG12	1.85	0.58
2:B:185:ALA:HA	2:B:188:VAL:HB	1.86	0.58
2:L:30:VAL:HG22	2:L:66:ILE:HG12	1.85	0.58
2:P:90:ILE:HG21	2:P:170:LEU:HD22	1.85	0.58
2:P:92:LEU:HD12	2:P:169:SER:O	2.04	0.58
1:S:132:VAL:HG11	1:S:177:LEU:HD12	1.85	0.58
1:S:252:ARG:HH21	2:T:245:GLU:HG2	1.69	0.58
2:T:92:LEU:HD12	2:T:169:SER:O	2.04	0.58
1:A:282:LEU:HB2	1:W:277:ASN:ND2	2.18	0.58
2:F:92:LEU:HD12	2:F:169:SER:O	2.04	0.58
2:F:221:ALA:HB1	1:G:242:LEU:CD2	2.33	0.58
2:H:92:LEU:HD12	2:H:169:SER:O	2.04	0.58
2:H:106:ILE:HA	2:H:110:ILE:HD12	1.85	0.58
2:H:185:ALA:HA	2:H:188:VAL:HB	1.86	0.58
2:H:270:LEU:HD13	2:J:260:LEU:HD11	1.86	0.58
1:K:229:GLU:HG3	2:L:223:LEU:HD13	1.85	0.58
1:M:90:ILE:HD13	1:M:134:PRO:HA	1.85	0.58
2:R:185:ALA:HA	2:R:188:VAL:HB	1.86	0.58
1:S:290:GLY:O	1:U:283:GLN:CB	2.51	0.58
1:W:256:ALA:HB1	1:W:260:ILE:HD11	1.86	0.58
1:A:256:ALA:HB1	1:A:260:ILE:HD11	1.86	0.58
2:B:28:TYR:O	2:B:54:THR:HG23	2.02	0.58
1:C:90:ILE:HD13	1:C:134:PRO:HA	1.85	0.58
2:J:185:ALA:HA	2:J:188:VAL:HB	1.86	0.58
1:K:236:LYS:HZ2	2:L:227:SER:HA	1.68	0.58
2:L:106:ILE:HA	2:L:110:ILE:HD12	1.85	0.58
1:M:256:ALA:HB1	1:M:260:ILE:HD11	1.86	0.58
2:P:185:ALA:HA	2:P:188:VAL:HB	1.85	0.58
1:Q:217:ALA:HB1	2:R:208:LYS:HZ2	1.69	0.58
1:Q:261:SER:CB	1:Q:264:ILE:HD12	2.34	0.58
2:R:106:ILE:HA	2:R:110:ILE:HD12	1.85	0.58
2:R:193:ALA:HA	1:S:219:GLN:NE2	2.18	0.58
2:X:90:ILE:HG21	2:X:170:LEU:HD22	1.85	0.58
1:A:261:SER:CB	1:A:264:ILE:HD12	2.34	0.58
2:B:240:LYS:HD3	1:E:282:LEU:CD1	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:256:ASN:HB2	1:E:268:GLN:CG	2.34	0.58
1:E:50:ILE:HG13	1:E:79:ILE:HD12	1.84	0.58
1:G:106:LEU:HD12	1:G:183:ALA:C	2.28	0.58
1:I:90:ILE:HD13	1:I:134:PRO:HA	1.85	0.58
2:N:271:PRO:O	2:P:271:PRO:HB3	2.02	0.58
2:P:44:GLY:C	1:Q:66:GLU:CD	2.72	0.58
2:P:46:GLN:HA	1:Q:66:GLU:CD	2.29	0.58
1:U:90:ILE:HD13	1:U:134:PRO:HA	1.85	0.58
2:X:158:ALA:HB1	2:X:163:LEU:CB	2.34	0.58
1:A:193:TYR:CE2	2:B:191:GLN:HG3	2.39	0.57
2:D:30:VAL:HG22	2:D:66:ILE:HG12	1.85	0.57
2:D:250:GLN:HB3	1:E:265:ALA:CB	2.34	0.57
2:F:139:LEU:HD12	2:F:175:PHE:CE1	2.39	0.57
2:F:258:THR:HG22	2:F:259:TYR:N	2.19	0.57
2:H:90:ILE:HG21	2:H:170:LEU:HD22	1.85	0.57
1:K:256:ALA:HB1	1:K:260:ILE:HD11	1.86	0.57
2:P:109:SER:CA	1:Q:111:ARG:HB3	2.34	0.57
1:S:281:ASN:O	1:S:287:PHE:HB2	2.04	0.57
2:T:30:VAL:HG22	2:T:66:ILE:HG12	1.85	0.57
2:V:92:LEU:HD12	2:V:169:SER:O	2.04	0.57
2:X:185:ALA:HA	2:X:188:VAL:HB	1.86	0.57
1:A:211:GLN:HG3	2:B:205:GLN:HG3	1.84	0.57
1:C:192:GLU:HB3	2:D:188:VAL:HG13	1.86	0.57
1:C:281:ASN:O	1:C:287:PHE:HB2	2.04	0.57
1:G:99:LEU:HD13	2:H:180:THR:HA	1.85	0.57
1:I:90:ILE:HB	1:I:137:VAL:HG11	1.87	0.57
2:J:90:ILE:HG21	2:J:170:LEU:HD22	1.85	0.57
2:J:240:LYS:NZ	1:M:283:GLN:CG	2.67	0.57
1:K:90:ILE:HD13	1:K:134:PRO:HA	1.85	0.57
1:K:90:ILE:HB	1:K:137:VAL:HG11	1.87	0.57
2:L:90:ILE:HG21	2:L:170:LEU:HD22	1.85	0.57
2:L:222:GLU:CD	1:M:241:ALA:HB1	2.29	0.57
1:M:106:LEU:HD12	1:M:183:ALA:C	2.28	0.57
1:M:139:GLU:OE1	2:N:169:SER:HB2	2.04	0.57
1:M:281:ASN:O	1:M:287:PHE:HB2	2.04	0.57
2:N:30:VAL:HG22	2:N:66:ILE:HG12	1.85	0.57
2:P:263:GLY:HA3	1:Q:286:SER:HB3	1.86	0.57
1:Q:106:LEU:HD12	1:Q:183:ALA:C	2.28	0.57
1:Q:249:ILE:HG12	2:R:241:LEU:CD1	2.30	0.57
2:T:185:ALA:HA	2:T:188:VAL:HB	1.86	0.57
1:U:106:LEU:HD12	1:U:183:ALA:C	2.28	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:218:LYS:CE	2:V:212:ILE:HD11	2.34	0.57
2:V:90:ILE:HG21	2:V:170:LEU:HD22	1.85	0.57
2:V:106:ILE:HA	2:V:110:ILE:HD12	1.85	0.57
2:D:90:ILE:HG21	2:D:170:LEU:HD22	1.85	0.57
2:D:139:LEU:HD12	2:D:175:PHE:CE1	2.39	0.57
2:D:225:ALA:HA	1:E:248:TYR:N	2.19	0.57
1:E:261:SER:CB	1:E:264:ILE:HD12	2.34	0.57
2:H:269:GLN:HG3	2:J:269:GLN:NE2	2.19	0.57
1:M:132:VAL:HG11	1:M:177:LEU:HD12	1.85	0.57
2:P:121:SER:HG	1:Q:184:ILE:C	2.08	0.57
1:S:106:LEU:HD12	1:S:183:ALA:C	2.28	0.57
2:T:221:ALA:HB2	1:U:248:TYR:CD2	2.39	0.57
1:U:142:LYS:HZ2	2:V:140:ILE:HG21	1.69	0.57
1:U:261:SER:CB	1:U:264:ILE:HD12	2.34	0.57
1:U:281:ASN:O	1:U:287:PHE:HB2	2.04	0.57
2:V:247:ILE:HD11	1:W:257:ALA:HB1	1.85	0.57
1:A:90:ILE:HD13	1:A:134:PRO:HA	1.85	0.57
1:A:280:LEU:O	1:W:274:THR:HG23	2.05	0.57
2:B:92:LEU:HD12	2:B:169:SER:O	2.04	0.57
1:C:192:GLU:CB	2:D:188:VAL:CG1	2.82	0.57
1:C:261:SER:CB	1:C:264:ILE:HD12	2.34	0.57
1:E:106:LEU:HD12	1:E:183:ALA:C	2.28	0.57
1:E:256:ALA:HB1	1:E:260:ILE:HD11	1.86	0.57
2:F:39:PHE:HB3	2:F:63:LYS:O	2.05	0.57
1:G:261:SER:CB	1:G:264:ILE:HD12	2.34	0.57
1:G:289:ARG:HH12	1:I:285:GLU:HG3	1.69	0.57
2:H:30:VAL:HG12	2:H:34:HIS:O	2.05	0.57
2:H:158:ALA:HB1	2:H:163:LEU:CB	2.34	0.57
2:J:157:ARG:NH2	1:K:165:ARG:HH12	2.02	0.57
1:K:108:VAL:HG21	1:K:137:VAL:CG2	2.32	0.57
1:K:239:GLY:CA	2:L:228:LEU:HD21	2.34	0.57
2:N:30:VAL:HG12	2:N:34:HIS:O	2.05	0.57
2:N:106:ILE:HA	2:N:110:ILE:HD12	1.85	0.57
2:P:86:GLN:NE2	1:Q:198:GLU:O	2.38	0.57
2:P:128:LYS:HD2	1:Q:157:ARG:HD2	1.85	0.57
1:Q:90:ILE:HB	1:Q:137:VAL:HG11	1.87	0.57
2:R:30:VAL:HG22	2:R:66:ILE:HG12	1.85	0.57
2:R:39:PHE:HB3	2:R:63:LYS:O	2.05	0.57
2:V:39:PHE:HB3	2:V:63:LYS:O	2.05	0.57
2:X:39:PHE:HB3	2:X:63:LYS:O	2.05	0.57
1:A:207:ALA:HB2	2:B:201:GLU:HB2	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:221:GLN:OE1	2:B:216:GLY:HA3	2.05	0.57
2:D:268:LEU:HD21	1:E:272:TYR:CE2	2.34	0.57
2:F:185:ALA:HA	2:F:188:VAL:HB	1.86	0.57
1:I:108:VAL:HG21	1:I:137:VAL:CG2	2.32	0.57
2:P:128:LYS:HE3	1:Q:157:ARG:NH1	2.19	0.57
2:R:139:LEU:HD12	2:R:175:PHE:CE1	2.39	0.57
1:S:261:SER:CB	1:S:264:ILE:HD12	2.34	0.57
2:V:240:LYS:HA	1:W:254:ILE:HG12	1.85	0.57
2:V:258:THR:CB	1:W:272:TYR:HD2	2.05	0.57
1:E:281:ASN:O	1:E:287:PHE:HB2	2.04	0.57
2:J:30:VAL:HG12	2:J:34:HIS:O	2.05	0.57
2:J:240:LYS:HE2	1:M:282:LEU:HB3	1.87	0.57
2:L:258:THR:HG22	2:L:259:TYR:N	2.20	0.57
2:N:185:ALA:HA	2:N:188:VAL:HB	1.85	0.57
2:R:30:VAL:HG12	2:R:34:HIS:O	2.05	0.57
1:U:256:ALA:HB1	1:U:260:ILE:HD11	1.86	0.57
1:A:51:PHE:CZ	1:A:69:HIS:HB3	2.40	0.57
2:B:43:ARG:CB	2:B:43:ARG:HG3	2.22	0.57
1:E:90:ILE:HB	1:E:137:VAL:HG11	1.87	0.57
2:H:258:THR:HG22	2:H:259:TYR:N	2.19	0.57
1:I:141:LEU:HD23	1:I:164:ILE:HD13	1.87	0.57
1:I:272:TYR:H	2:J:259:TYR:HD2	1.52	0.57
2:L:158:ALA:HB3	2:L:165:LEU:HG	1.87	0.57
1:U:235:ALA:HA	2:V:235:LEU:HD22	1.86	0.57
2:V:235:LEU:O	1:W:251:LEU:HD21	2.05	0.57
1:W:141:LEU:HD23	1:W:164:ILE:HD13	1.87	0.57
1:A:141:LEU:HD23	1:A:164:ILE:HD13	1.87	0.57
1:A:203:ALA:HB1	2:B:198:PHE:O	2.04	0.57
1:I:271:ILE:HG23	2:J:259:TYR:CE2	2.39	0.57
2:J:39:PHE:HB3	2:J:63:LYS:O	2.05	0.57
2:J:237:GLU:OE1	1:M:283:GLN:CD	2.48	0.57
1:K:132:VAL:HG11	1:K:177:LEU:HD12	1.85	0.57
2:L:158:ALA:HB1	2:L:163:LEU:CB	2.34	0.57
1:Q:99:LEU:HD21	2:R:140:ILE:HB	1.86	0.57
2:T:30:VAL:HG12	2:T:34:HIS:O	2.05	0.57
2:T:258:THR:HG22	2:T:259:TYR:N	2.20	0.57
1:U:246:PRO:HD3	1:W:294:LEU:HB2	1.87	0.57
1:W:51:PHE:CZ	1:W:69:HIS:HB3	2.40	0.57
1:W:132:VAL:HG11	1:W:177:LEU:HD12	1.85	0.57
1:W:261:SER:CB	1:W:264:ILE:HD12	2.34	0.57
1:A:217:ALA:CB	2:B:212:ILE:HD13	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:139:LEU:HD12	2:B:175:PHE:CE1	2.39	0.57
2:B:258:THR:HG22	2:B:259:TYR:N	2.19	0.57
2:F:90:ILE:HG23	2:F:172:HIS:O	2.05	0.57
2:H:158:ALA:HB3	2:H:165:LEU:HG	1.87	0.57
2:J:158:ALA:HB1	2:J:163:LEU:CB	2.34	0.57
2:J:236:ILE:O	1:K:254:ILE:HD13	2.05	0.57
2:J:240:LYS:HZ3	1:M:283:GLN:HG3	1.70	0.57
1:K:232:ALA:CA	2:L:224:ILE:HG12	2.34	0.57
2:L:39:PHE:HB3	2:L:63:LYS:O	2.05	0.57
2:L:92:LEU:HD12	2:L:169:SER:O	2.04	0.57
1:O:281:ASN:O	1:O:287:PHE:HB2	2.04	0.57
2:P:39:PHE:HB3	2:P:63:LYS:O	2.05	0.57
2:P:44:GLY:O	1:Q:66:GLU:OE2	2.22	0.57
2:P:46:GLN:CA	1:Q:66:GLU:CD	2.78	0.57
2:R:92:LEU:HD12	2:R:169:SER:O	2.04	0.57
2:T:158:ALA:HB1	2:T:163:LEU:CB	2.34	0.57
1:U:164:ILE:CD1	1:U:184:ILE:HD11	2.31	0.57
2:H:39:PHE:HB3	2:H:63:LYS:O	2.05	0.57
1:I:256:ALA:HB1	1:I:260:ILE:HD11	1.86	0.57
2:J:43:ARG:CA	1:K:67:GLY:N	2.67	0.57
1:M:261:SER:CB	1:M:264:ILE:HD12	2.34	0.57
2:P:128:LYS:HD2	1:Q:157:ARG:CD	2.34	0.57
2:R:248:ALA:HB2	1:S:278:LEU:HD23	1.87	0.57
2:R:258:THR:HG22	2:R:259:TYR:N	2.20	0.57
2:T:39:PHE:HB3	2:T:63:LYS:O	2.05	0.57
2:B:158:ALA:HB1	2:B:163:LEU:CB	2.34	0.56
1:C:175:PHE:CZ	2:D:167:ASP:HB2	2.40	0.56
2:F:90:ILE:HG21	2:F:170:LEU:HD22	1.85	0.56
1:G:90:ILE:HB	1:G:137:VAL:HG11	1.87	0.56
1:G:206:GLU:OE1	2:H:202:LYS:CD	2.52	0.56
2:J:92:LEU:HD12	2:J:169:SER:O	2.04	0.56
1:K:51:PHE:CZ	1:K:69:HIS:HB3	2.40	0.56
1:K:261:SER:CB	1:K:264:ILE:HD12	2.34	0.56
2:L:43:ARG:O	1:M:66:GLU:HB3	2.04	0.56
2:L:178:GLU:OE1	1:M:202:VAL:HG13	2.05	0.56
1:M:99:LEU:HD22	2:N:175:PHE:CD2	2.40	0.56
2:N:39:PHE:HB3	2:N:63:LYS:O	2.05	0.56
2:N:90:ILE:HG23	2:N:172:HIS:O	2.05	0.56
2:N:92:LEU:HD12	2:N:169:SER:O	2.04	0.56
1:O:90:ILE:HB	1:O:137:VAL:HG11	1.87	0.56
2:P:158:ALA:HB1	2:P:163:LEU:CB	2.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:258:THR:HG22	2:P:259:TYR:N	2.19	0.56
1:Q:51:PHE:CZ	1:Q:69:HIS:HB3	2.40	0.56
2:V:259:TYR:HD1	1:W:273:LEU:CB	2.17	0.56
2:X:258:THR:HG22	2:X:259:TYR:N	2.20	0.56
2:D:39:PHE:HB3	2:D:63:LYS:O	2.05	0.56
2:D:258:THR:HG22	2:D:259:TYR:N	2.19	0.56
2:H:139:LEU:HD12	2:H:175:PHE:CE1	2.39	0.56
2:J:90:ILE:HG23	2:J:172:HIS:O	2.05	0.56
2:J:139:LEU:HD12	2:J:175:PHE:CE1	2.39	0.56
2:L:30:VAL:HG12	2:L:34:HIS:O	2.05	0.56
2:L:90:ILE:HG23	2:L:172:HIS:O	2.05	0.56
1:O:51:PHE:CZ	1:O:69:HIS:HB3	2.40	0.56
1:O:108:VAL:HG21	1:O:137:VAL:CG2	2.32	0.56
1:O:261:SER:CB	1:O:264:ILE:HD12	2.34	0.56
2:P:30:VAL:HG12	2:P:34:HIS:O	2.05	0.56
2:P:272:GLN:HG2	2:R:272:GLN:OE1	2.06	0.56
1:Q:267:SER:HB2	2:R:252:SER:O	2.03	0.56
1:S:256:ALA:HB1	1:S:260:ILE:HD11	1.86	0.56
2:T:158:ALA:HB3	2:T:165:LEU:HG	1.87	0.56
1:U:90:ILE:HB	1:U:137:VAL:HG11	1.87	0.56
2:V:139:LEU:HD12	2:V:175:PHE:CE1	2.39	0.56
2:X:30:VAL:HG12	2:X:34:HIS:O	2.05	0.56
2:X:158:ALA:HB3	2:X:165:LEU:HG	1.87	0.56
2:B:39:PHE:HB3	2:B:63:LYS:O	2.05	0.56
2:B:158:ALA:HB3	2:B:165:LEU:HG	1.87	0.56
2:B:267:LEU:HG	2:D:267:LEU:HB3	1.86	0.56
1:C:271:ILE:HA	2:D:259:TYR:HB3	1.87	0.56
2:D:79:ILE:HG23	2:D:89:ASN:OD1	2.06	0.56
1:G:281:ASN:O	1:G:287:PHE:HB2	2.04	0.56
2:H:269:GLN:HA	2:J:269:GLN:OE1	2.05	0.56
2:J:85:LEU:HD11	1:K:155:THR:CG2	2.34	0.56
2:J:108:THR:HG22	1:K:66:GLU:OE2	2.04	0.56
2:J:158:ALA:HB3	2:J:165:LEU:HG	1.87	0.56
2:J:258:THR:HG22	2:J:259:TYR:N	2.20	0.56
1:K:281:ASN:O	1:K:287:PHE:HB2	2.04	0.56
1:M:141:LEU:HD23	1:M:164:ILE:HD13	1.87	0.56
1:M:171:ARG:NH2	2:N:167:ASP:OD2	2.38	0.56
2:P:140:ILE:HA	2:P:143:ARG:HB2	1.87	0.56
1:Q:281:ASN:O	1:Q:287:PHE:HB2	2.04	0.56
1:S:51:PHE:CZ	1:S:69:HIS:HB3	2.40	0.56
1:S:249:ILE:HG13	2:T:238:LEU:HA	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:51:PHE:CZ	1:U:69:HIS:HB3	2.40	0.56
2:V:207:LYS:HD2	1:W:227:GLN:HG2	1.86	0.56
2:V:235:LEU:CD1	2:V:239:ARG:HG2	2.35	0.56
2:B:204:GLU:CA	1:C:226:VAL:HG21	2.33	0.56
2:D:30:VAL:HG12	2:D:34:HIS:O	2.05	0.56
2:D:92:LEU:HD12	2:D:169:SER:O	2.04	0.56
1:E:285:GLU:O	1:E:289:ARG:HG3	2.06	0.56
2:F:140:ILE:HA	2:F:143:ARG:HB2	1.87	0.56
2:F:243:ALA:HB1	2:F:247:ILE:HD11	1.88	0.56
1:G:164:ILE:CD1	1:G:184:ILE:HD11	2.31	0.56
1:G:193:TYR:CD1	2:H:188:VAL:HG22	2.39	0.56
1:I:79:ILE:HD13	1:I:121:TYR:CD2	2.41	0.56
1:K:141:LEU:HD23	1:K:164:ILE:HD13	1.87	0.56
2:L:235:LEU:CD1	2:L:239:ARG:HG2	2.36	0.56
1:M:51:PHE:CZ	1:M:69:HIS:HB3	2.40	0.56
2:P:121:SER:OG	1:Q:183:ALA:HB1	2.06	0.56
2:P:158:ALA:HB3	2:P:165:LEU:HG	1.87	0.56
2:R:82:SER:O	2:R:85:LEU:HD23	2.06	0.56
2:R:90:ILE:HG23	2:R:172:HIS:O	2.05	0.56
1:U:141:LEU:HD23	1:U:164:ILE:HD13	1.87	0.56
2:V:79:ILE:HG23	2:V:89:ASN:OD1	2.06	0.56
1:W:281:ASN:O	1:W:287:PHE:HB2	2.05	0.56
1:A:281:ASN:O	1:A:287:PHE:HB2	2.05	0.56
2:D:256:ASN:HB2	1:E:268:GLN:HE21	1.70	0.56
2:F:82:SER:O	2:F:85:LEU:HD23	2.06	0.56
1:G:141:LEU:HD23	1:G:164:ILE:HD13	1.87	0.56
2:L:222:GLU:OE2	1:M:241:ALA:HB2	2.06	0.56
1:O:285:GLU:O	1:O:289:ARG:HG3	2.06	0.56
2:P:39:PHE:CE2	1:Q:44:GLU:HG2	2.39	0.56
2:P:41:ARG:HB3	1:Q:43:VAL:HG12	1.86	0.56
2:P:90:ILE:HG23	2:P:172:HIS:O	2.05	0.56
2:P:221:ALA:HB2	1:Q:248:TYR:CD2	2.40	0.56
2:T:82:SER:O	2:T:85:LEU:HD23	2.06	0.56
1:U:214:VAL:HG21	2:V:205:GLN:OE1	2.05	0.56
1:U:245:ASN:HA	1:W:294:LEU:HB3	1.87	0.56
1:W:90:ILE:HB	1:W:137:VAL:HG11	1.87	0.56
2:X:79:ILE:HG23	2:X:89:ASN:OD1	2.06	0.56
2:X:90:ILE:HG23	2:X:172:HIS:O	2.05	0.56
2:B:30:VAL:HG12	2:B:34:HIS:O	2.05	0.56
2:B:79:ILE:HG23	2:B:89:ASN:OD1	2.06	0.56
1:C:51:PHE:CZ	1:C:69:HIS:HB3	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:79:ILE:HD13	1:C:121:TYR:CD2	2.41	0.56
2:D:158:ALA:HB1	2:D:163:LEU:CB	2.34	0.56
2:D:228:LEU:CD1	1:E:251:LEU:HD11	2.36	0.56
1:G:51:PHE:CZ	1:G:69:HIS:HB3	2.40	0.56
1:I:281:ASN:O	1:I:287:PHE:HB2	2.05	0.56
2:J:79:ILE:HG23	2:J:89:ASN:OD1	2.06	0.56
2:J:82:SER:O	2:J:85:LEU:HD23	2.06	0.56
1:K:79:ILE:HD13	1:K:121:TYR:CD2	2.41	0.56
1:K:221:GLN:NE2	2:L:216:GLY:N	2.54	0.56
1:M:193:TYR:CD1	2:N:188:VAL:HG22	2.41	0.56
1:M:285:GLU:O	1:M:289:ARG:HG3	2.06	0.56
2:T:139:LEU:HD12	2:T:175:PHE:CE1	2.39	0.56
2:T:243:ALA:HB1	2:T:247:ILE:HD11	1.88	0.56
1:U:204:GLN:HB2	2:V:198:PHE:CD2	2.41	0.56
2:V:30:VAL:HG12	2:V:34:HIS:O	2.05	0.56
2:V:90:ILE:HG23	2:V:172:HIS:O	2.05	0.56
1:W:79:ILE:HD13	1:W:121:TYR:CD2	2.41	0.56
1:W:285:GLU:O	1:W:289:ARG:HG3	2.06	0.56
1:C:90:ILE:HB	1:C:137:VAL:HG11	1.87	0.56
1:C:141:LEU:HD23	1:C:164:ILE:HD13	1.87	0.56
2:D:189:ALA:HB3	1:E:212:PHE:CD2	2.41	0.56
1:E:51:PHE:CZ	1:E:69:HIS:HB3	2.40	0.56
1:E:141:LEU:HD23	1:E:164:ILE:HD13	1.87	0.56
2:J:224:ILE:HG21	1:K:251:LEU:HG	1.88	0.56
1:M:79:ILE:HD13	1:M:121:TYR:CD2	2.41	0.56
1:M:99:LEU:CD2	2:N:175:PHE:CE2	2.88	0.56
2:N:28:TYR:HD1	2:N:30:VAL:HG23	1.71	0.56
1:Q:141:LEU:HD23	1:Q:164:ILE:HD13	1.87	0.56
1:Q:238:LEU:HD13	2:R:239:ARG:HD3	1.87	0.56
1:Q:285:GLU:O	1:Q:289:ARG:HG3	2.06	0.56
2:T:79:ILE:HG23	2:T:89:ASN:OD1	2.06	0.56
2:V:82:SER:O	2:V:85:LEU:HD23	2.06	0.56
2:V:243:ALA:HB1	2:V:247:ILE:HD11	1.88	0.56
2:X:82:SER:O	2:X:85:LEU:HD23	2.06	0.56
1:A:90:ILE:HB	1:A:137:VAL:HG11	1.87	0.56
1:A:106:LEU:HD12	1:A:183:ALA:O	2.06	0.56
1:A:278:LEU:H	2:X:259:TYR:HE1	1.54	0.56
2:B:119:LEU:HD23	2:B:122:ILE:HD11	1.88	0.56
1:G:285:GLU:O	1:G:289:ARG:HG3	2.06	0.56
2:H:235:LEU:CD1	2:H:239:ARG:HG2	2.35	0.56
1:I:51:PHE:CZ	1:I:69:HIS:HB3	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:119:LEU:HD23	2:J:122:ILE:HD11	1.88	0.56
2:L:243:ALA:HB1	2:L:247:ILE:HD11	1.88	0.56
1:M:90:ILE:HB	1:M:137:VAL:HG11	1.87	0.56
1:Q:132:VAL:HG11	1:Q:177:LEU:HD12	1.85	0.56
1:S:272:TYR:O	2:T:259:TYR:C	2.49	0.56
2:T:90:ILE:HG23	2:T:172:HIS:O	2.05	0.56
1:U:246:PRO:HD3	1:W:294:LEU:CB	2.36	0.56
1:A:285:GLU:O	1:A:289:ARG:HG3	2.06	0.56
2:B:90:ILE:HG23	2:B:172:HIS:O	2.05	0.56
2:B:140:ILE:HA	2:B:143:ARG:HB2	1.88	0.56
1:G:153:LEU:HD23	1:G:160:VAL:HG21	1.88	0.56
2:H:243:ALA:HB1	2:H:247:ILE:HD11	1.88	0.56
1:I:261:SER:CB	1:I:264:ILE:HD12	2.34	0.56
2:J:243:ALA:HB1	2:J:247:ILE:HD11	1.88	0.56
1:K:285:GLU:O	1:K:289:ARG:HG3	2.06	0.56
1:K:299:LYS:HZ1	1:M:288:THR:HB	1.71	0.56
2:L:28:TYR:HD1	2:L:30:VAL:HG23	1.71	0.56
1:M:138:ASN:HB3	2:N:171:THR:O	2.06	0.56
1:M:139:GLU:HA	2:N:143:ARG:HH22	1.70	0.56
2:N:79:ILE:HG23	2:N:89:ASN:OD1	2.06	0.56
2:N:140:ILE:HA	2:N:143:ARG:HB2	1.87	0.56
2:P:43:ARG:HE	1:Q:65:ALA:HB3	1.70	0.56
2:P:61:VAL:CG2	1:Q:43:VAL:HG12	2.34	0.56
2:P:109:SER:HB3	1:Q:111:ARG:HG2	1.88	0.56
1:Q:79:ILE:HD13	1:Q:121:TYR:CD2	2.41	0.56
1:Q:106:LEU:HD12	1:Q:183:ALA:O	2.06	0.56
2:R:158:ALA:HB3	2:R:165:LEU:HG	1.87	0.56
1:S:164:ILE:CD1	1:S:184:ILE:HD11	2.31	0.56
2:T:140:ILE:HA	2:T:143:ARG:HB2	1.88	0.56
1:U:193:TYR:HE1	2:V:187:GLN:HB3	1.71	0.56
2:V:158:ALA:HB1	2:V:163:LEU:CB	2.34	0.56
1:A:48:ARG:HB2	1:A:117:LEU:HD13	1.88	0.56
1:A:193:TYR:HE1	2:B:187:GLN:HB3	1.71	0.56
2:D:82:SER:O	2:D:85:LEU:HD23	2.06	0.56
1:G:79:ILE:HD13	1:G:121:TYR:CD2	2.41	0.56
2:H:28:TYR:HD1	2:H:30:VAL:HG23	1.71	0.56
2:H:140:ILE:HA	2:H:143:ARG:HB2	1.88	0.56
1:M:48:ARG:HB2	1:M:117:LEU:HD13	1.88	0.56
1:M:106:LEU:HD12	1:M:183:ALA:O	2.06	0.56
2:R:79:ILE:HG23	2:R:89:ASN:OD1	2.06	0.56
1:S:106:LEU:HD12	1:S:183:ALA:O	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:140:ILE:HA	2:V:143:ARG:HB2	1.87	0.56
2:V:239:ARG:O	1:W:254:ILE:CG2	2.49	0.56
1:W:106:LEU:HD12	1:W:183:ALA:O	2.06	0.56
2:X:139:LEU:HD12	2:X:175:PHE:CE1	2.39	0.56
1:A:153:LEU:HD23	1:A:160:VAL:HG21	1.88	0.55
1:A:203:ALA:CB	2:B:198:PHE:C	2.79	0.55
1:C:153:LEU:HD23	1:C:160:VAL:HG21	1.88	0.55
2:D:35:ARG:HB2	2:D:103:LEU:CD1	2.37	0.55
2:D:140:ILE:HA	2:D:143:ARG:HB2	1.87	0.55
2:D:259:TYR:OH	1:E:278:LEU:HD12	2.06	0.55
1:E:106:LEU:HD12	1:E:183:ALA:O	2.06	0.55
2:F:79:ILE:HG23	2:F:89:ASN:OD1	2.06	0.55
2:H:216:GLY:O	2:H:219:LYS:HG3	2.07	0.55
1:I:224:LYS:HD3	2:J:216:GLY:HA3	1.87	0.55
1:K:260:ILE:HD11	2:L:244:ALA:HB1	1.88	0.55
2:N:216:GLY:O	2:N:219:LYS:HG3	2.07	0.55
2:N:269:GLN:NE2	2:P:269:GLN:CG	2.68	0.55
2:P:179:PHE:CE2	1:Q:201:GLN:OE1	2.58	0.55
1:S:253:LYS:HZ1	2:T:241:LEU:HD11	1.72	0.55
1:U:153:LEU:HD23	1:U:160:VAL:HG21	1.88	0.55
1:U:246:PRO:HA	1:W:294:LEU:HG	1.89	0.55
1:A:217:ALA:HB3	2:B:212:ILE:HD13	1.88	0.55
2:B:222:GLU:OE2	1:C:241:ALA:CB	2.53	0.55
2:B:243:ALA:HB1	2:B:247:ILE:HD11	1.88	0.55
1:C:48:ARG:HB2	1:C:117:LEU:HD13	1.88	0.55
1:C:285:GLU:O	1:C:289:ARG:HG3	2.06	0.55
2:D:28:TYR:HD1	2:D:30:VAL:HG23	1.71	0.55
2:D:135:ASP:O	2:D:139:LEU:HG	2.07	0.55
2:D:243:ALA:HB1	2:D:247:ILE:HD11	1.88	0.55
2:D:246:ASP:CB	1:E:262:LYS:HE2	2.36	0.55
2:F:158:ALA:HB1	2:F:163:LEU:CB	2.34	0.55
2:F:228:LEU:HD22	2:F:232:GLY:O	2.06	0.55
2:H:79:ILE:HG23	2:H:89:ASN:OD1	2.06	0.55
2:H:119:LEU:HD23	2:H:122:ILE:HD11	1.88	0.55
2:H:228:LEU:HD22	2:H:232:GLY:O	2.06	0.55
2:J:28:TYR:HD1	2:J:30:VAL:HG23	1.71	0.55
1:K:106:LEU:HD12	1:K:183:ALA:O	2.06	0.55
2:L:43:ARG:CB	2:L:43:ARG:HG3	2.22	0.55
2:L:119:LEU:HD23	2:L:122:ILE:HD11	1.88	0.55
1:Q:48:ARG:HB2	1:Q:117:LEU:HD13	1.88	0.55
2:R:119:LEU:HD23	2:R:122:ILE:HD11	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:48:ARG:HB2	1:S:117:LEU:HD13	1.88	0.55
1:S:141:LEU:HD23	1:S:164:ILE:HD13	1.87	0.55
1:S:285:GLU:O	1:S:289:ARG:HG3	2.06	0.55
2:T:35:ARG:HB2	2:T:103:LEU:CD1	2.37	0.55
2:T:135:ASP:O	2:T:139:LEU:HG	2.06	0.55
1:U:79:ILE:HD13	1:U:121:TYR:CD2	2.41	0.55
2:V:158:ALA:HB3	2:V:165:LEU:HG	1.87	0.55
2:V:254:SER:HB2	1:W:264:ILE:HG22	1.87	0.55
1:A:68:LEU:N	2:X:43:ARG:CD	2.69	0.55
2:B:211:ILE:CG1	1:C:233:GLU:OE2	2.54	0.55
1:C:131:ARG:HA	2:D:95:LEU:CD2	2.36	0.55
1:C:290:GLY:C	1:E:283:GLN:OE1	2.49	0.55
2:D:90:ILE:HG23	2:D:172:HIS:O	2.05	0.55
1:E:48:ARG:HB2	1:E:117:LEU:HD13	1.88	0.55
2:F:28:TYR:HD1	2:F:30:VAL:HG23	1.71	0.55
1:G:94:THR:HG23	1:G:142:LYS:HD2	1.89	0.55
2:H:35:ARG:HB2	2:H:103:LEU:CD1	2.37	0.55
2:H:90:ILE:HG23	2:H:172:HIS:O	2.05	0.55
1:I:228:ALA:N	2:J:219:LYS:HZ1	2.01	0.55
2:L:79:ILE:HG23	2:L:89:ASN:OD1	2.06	0.55
2:L:228:LEU:HD22	2:L:232:GLY:O	2.06	0.55
2:N:228:LEU:HD22	2:N:232:GLY:O	2.06	0.55
1:O:79:ILE:HD13	1:O:121:TYR:CD2	2.41	0.55
1:O:256:ALA:HB1	1:O:260:ILE:HD11	1.86	0.55
2:P:35:ARG:HB2	2:P:103:LEU:CD1	2.37	0.55
2:P:39:PHE:C	1:Q:45:GLY:N	2.62	0.55
2:P:79:ILE:HG23	2:P:89:ASN:OD1	2.06	0.55
1:S:272:TYR:CZ	2:T:271:PRO:HG3	2.40	0.55
1:U:94:THR:HG23	1:U:142:LYS:HD2	1.89	0.55
1:U:285:GLU:O	1:U:289:ARG:HG3	2.06	0.55
2:V:35:ARG:HB2	2:V:103:LEU:CD1	2.37	0.55
2:V:258:THR:C	1:W:272:TYR:HA	2.30	0.55
2:B:82:SER:O	2:B:85:LEU:HD23	2.06	0.55
2:D:216:GLY:O	2:D:219:LYS:HG3	2.07	0.55
2:F:30:VAL:HG12	2:F:34:HIS:O	2.05	0.55
1:I:82:ASP:OD1	1:I:82:ASP:O	2.25	0.55
1:I:153:LEU:HD23	1:I:160:VAL:HG21	1.88	0.55
1:I:235:ALA:CB	2:J:227:SER:OG	2.54	0.55
1:K:239:GLY:HA3	2:L:228:LEU:CD2	2.36	0.55
1:K:299:LYS:OXT	1:M:285:GLU:OE2	2.24	0.55
2:L:80:THR:HG21	2:L:131:VAL:HB	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:197:ARG:HH12	1:M:222:ARG:HH22	1.54	0.55
2:L:216:GLY:O	2:L:219:LYS:HG3	2.07	0.55
1:M:121:TYR:O	2:N:33:GLY:CA	2.54	0.55
2:N:80:THR:HG21	2:N:131:VAL:HB	1.89	0.55
2:N:267:LEU:HD11	2:P:267:LEU:CD2	2.27	0.55
1:O:141:LEU:HD23	1:O:164:ILE:HD13	1.87	0.55
2:P:82:SER:O	2:P:85:LEU:HD23	2.06	0.55
2:P:109:SER:C	1:Q:85:ALA:HB2	2.32	0.55
2:P:119:LEU:HD23	2:P:122:ILE:HD11	1.88	0.55
2:P:157:ARG:NH2	1:Q:162:LEU:CD2	2.70	0.55
2:P:185:ALA:O	1:Q:212:PHE:CZ	2.59	0.55
1:Q:94:THR:HG23	1:Q:142:LYS:HD2	1.89	0.55
1:S:94:THR:HG23	1:S:142:LYS:HD2	1.89	0.55
2:B:28:TYR:HD1	2:B:30:VAL:HG23	1.71	0.55
2:D:41:ARG:CZ	1:E:43:VAL:HG12	2.36	0.55
2:D:119:LEU:HD23	2:D:122:ILE:HD11	1.88	0.55
2:D:158:ALA:HB3	2:D:165:LEU:HG	1.87	0.55
2:D:228:LEU:HD22	2:D:232:GLY:O	2.06	0.55
2:F:135:ASP:O	2:F:139:LEU:HG	2.06	0.55
1:I:48:ARG:HB2	1:I:117:LEU:HD13	1.88	0.55
1:I:285:GLU:O	1:I:289:ARG:HG3	2.06	0.55
2:J:135:ASP:O	2:J:139:LEU:HG	2.06	0.55
2:J:235:LEU:CD1	2:J:239:ARG:HG2	2.35	0.55
1:M:142:LYS:HE3	2:N:173:LEU:CB	2.37	0.55
2:N:158:ALA:HB3	2:N:165:LEU:HG	1.87	0.55
1:O:153:LEU:HD23	1:O:160:VAL:HG21	1.88	0.55
2:P:216:GLY:O	2:P:219:LYS:HG3	2.07	0.55
2:P:243:ALA:HB1	2:P:247:ILE:HD11	1.88	0.55
1:Q:82:ASP:OD1	1:Q:82:ASP:O	2.25	0.55
2:R:257:ILE:CB	1:S:278:LEU:HD12	2.33	0.55
2:T:80:THR:HG21	2:T:131:VAL:HB	1.89	0.55
2:T:119:LEU:HD23	2:T:122:ILE:HD11	1.88	0.55
2:X:135:ASP:O	2:X:139:LEU:HG	2.06	0.55
1:A:79:ILE:HD13	1:A:121:TYR:CD2	2.41	0.55
1:A:197:VAL:HG22	2:B:191:GLN:CB	2.36	0.55
2:B:235:LEU:CD1	2:B:239:ARG:HG2	2.36	0.55
1:C:290:GLY:O	1:E:283:GLN:OE1	2.23	0.55
2:D:224:ILE:HD13	1:E:248:TYR:CE1	2.41	0.55
1:E:79:ILE:HD13	1:E:121:TYR:CD2	2.41	0.55
2:F:216:GLY:O	2:F:219:LYS:HG3	2.07	0.55
1:G:106:LEU:HD12	1:G:183:ALA:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:82:SER:O	2:H:85:LEU:HD23	2.06	0.55
1:I:106:LEU:HD12	1:I:183:ALA:O	2.06	0.55
2:J:228:LEU:HD22	2:J:232:GLY:O	2.06	0.55
2:L:92:LEU:HD13	2:L:170:LEU:HD23	1.89	0.55
1:M:164:ILE:CD1	1:M:184:ILE:HD11	2.31	0.55
2:N:139:LEU:HD12	2:N:175:PHE:CE1	2.39	0.55
2:N:258:THR:HG22	2:N:259:TYR:N	2.19	0.55
2:P:28:TYR:HD1	2:P:30:VAL:HG23	1.71	0.55
2:R:92:LEU:HD13	2:R:170:LEU:HD23	1.89	0.55
2:R:216:GLY:O	2:R:219:LYS:HG3	2.07	0.55
2:R:235:LEU:CD1	2:R:239:ARG:HG2	2.36	0.55
1:S:82:ASP:OD1	1:S:82:ASP:O	2.25	0.55
2:T:204:GLU:HG2	1:U:226:VAL:HG21	1.89	0.55
1:U:142:LYS:HZ1	2:V:140:ILE:HD13	1.71	0.55
1:U:207:ALA:HB2	2:V:201:GLU:CB	2.36	0.55
1:A:164:ILE:CD1	1:A:184:ILE:HD11	2.31	0.55
2:B:35:ARG:HB2	2:B:103:LEU:CD1	2.37	0.55
1:C:106:LEU:HD12	1:C:183:ALA:O	2.06	0.55
2:D:236:ILE:O	1:E:254:ILE:HG21	2.07	0.55
1:G:82:ASP:O	1:G:82:ASP:OD1	2.25	0.55
1:G:98:ASP:OD2	2:H:184:GLU:HG2	2.06	0.55
1:G:256:ALA:HB1	1:G:260:ILE:HD11	1.86	0.55
2:N:92:LEU:HD13	2:N:170:LEU:HD23	1.89	0.55
2:N:243:ALA:HB1	2:N:247:ILE:HD11	1.88	0.55
2:P:235:LEU:CD1	2:P:239:ARG:HG2	2.36	0.55
1:Q:253:LYS:NZ	2:R:241:LEU:CD1	2.70	0.55
2:R:28:TYR:HD1	2:R:30:VAL:HG23	1.71	0.55
2:R:35:ARG:HB2	2:R:103:LEU:CD1	2.37	0.55
2:R:135:ASP:O	2:R:139:LEU:HG	2.06	0.55
2:R:243:ALA:HB1	2:R:247:ILE:HD11	1.88	0.55
2:R:261:PRO:HB3	1:S:284:ASP:OD2	2.07	0.55
1:S:79:ILE:HD13	1:S:121:TYR:CD2	2.41	0.55
1:U:82:ASP:OD1	1:U:82:ASP:O	2.25	0.55
1:W:164:ILE:CD1	1:W:184:ILE:HD11	2.31	0.55
2:X:35:ARG:HB2	2:X:103:LEU:CD1	2.37	0.55
2:X:37:VAL:CG1	2:X:45:VAL:HG13	2.37	0.55
2:X:243:ALA:HB1	2:X:247:ILE:HD11	1.88	0.55
1:A:82:ASP:OD1	1:A:82:ASP:O	2.25	0.55
2:B:270:LEU:HD13	1:C:272:TYR:CZ	2.41	0.55
1:C:270:ARG:O	2:D:258:THR:HG23	2.06	0.55
2:D:251:LEU:HD23	1:E:264:ILE:C	2.31	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:48:ARG:HB2	1:G:117:LEU:HD13	1.88	0.55
2:H:135:ASP:O	2:H:139:LEU:HG	2.06	0.55
1:K:94:THR:HG23	1:K:142:LYS:HD2	1.89	0.55
1:M:142:LYS:HE3	2:N:173:LEU:HB3	1.88	0.55
2:R:80:THR:HG21	2:R:131:VAL:HB	1.89	0.55
1:S:90:ILE:HB	1:S:137:VAL:HG11	1.87	0.55
1:S:153:LEU:HD23	1:S:160:VAL:HG21	1.88	0.55
1:W:48:ARG:HB2	1:W:117:LEU:HD13	1.88	0.55
2:F:80:THR:HG21	2:F:131:VAL:HB	1.89	0.55
2:F:119:LEU:HD23	2:F:122:ILE:HD11	1.88	0.55
2:F:218:SER:CB	1:G:237:MET:HE1	2.37	0.55
2:L:37:VAL:CG1	2:L:45:VAL:HG13	2.37	0.55
2:N:37:VAL:CG1	2:N:45:VAL:HG13	2.37	0.55
2:N:82:SER:O	2:N:85:LEU:HD23	2.06	0.55
2:P:179:PHE:HB2	1:Q:201:GLN:C	2.32	0.55
1:Q:217:ALA:CB	2:R:208:LYS:NZ	2.69	0.55
1:Q:256:ALA:HB1	1:Q:260:ILE:HD11	1.86	0.55
2:R:140:ILE:HA	2:R:143:ARG:HB2	1.87	0.55
2:R:268:LEU:HD12	2:T:266:VAL:HG13	1.89	0.55
1:S:252:ARG:HE	2:T:245:GLU:HG2	1.70	0.55
2:T:92:LEU:HD13	2:T:170:LEU:HD23	1.89	0.55
1:U:106:LEU:HD12	1:U:183:ALA:O	2.06	0.55
2:V:37:VAL:CG1	2:V:45:VAL:HG13	2.37	0.55
2:V:135:ASP:O	2:V:139:LEU:HG	2.06	0.55
2:V:216:GLY:O	2:V:219:LYS:HG3	2.07	0.55
2:B:135:ASP:O	2:B:139:LEU:HG	2.06	0.55
2:B:269:GLN:CA	2:D:269:GLN:HB2	2.34	0.55
2:D:92:LEU:HD13	2:D:170:LEU:HD23	1.89	0.55
2:D:225:ALA:CA	1:E:248:TYR:CB	2.85	0.55
1:E:82:ASP:OD1	1:E:82:ASP:O	2.25	0.55
2:L:259:TYR:CE1	1:M:278:LEU:HB2	2.42	0.55
1:M:153:LEU:HD23	1:M:160:VAL:HG21	1.88	0.55
1:M:171:ARG:CZ	2:N:169:SER:OG	2.55	0.55
2:P:80:THR:HG21	2:P:131:VAL:HB	1.89	0.55
2:P:135:ASP:O	2:P:139:LEU:HG	2.06	0.55
2:V:43:ARG:CB	2:V:43:ARG:HG3	2.22	0.55
2:V:80:THR:HG21	2:V:131:VAL:HB	1.89	0.55
2:V:92:LEU:HD13	2:V:170:LEU:HD23	1.89	0.55
2:V:228:LEU:HD22	2:V:232:GLY:O	2.06	0.55
1:A:40:VAL:HG11	2:X:42:PHE:HE1	1.72	0.54
2:D:224:ILE:CD1	1:E:248:TYR:CE1	2.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:92:LEU:HD13	2:F:170:LEU:HD23	1.89	0.54
2:F:158:ALA:HB3	2:F:165:LEU:HG	1.87	0.54
2:L:82:SER:O	2:L:85:LEU:HD23	2.06	0.54
2:L:140:ILE:HA	2:L:143:ARG:HB2	1.87	0.54
1:M:94:THR:HG23	1:M:142:LYS:HD2	1.89	0.54
1:O:223:GLN:O	1:O:226:VAL:HG12	2.08	0.54
2:P:185:ALA:C	1:Q:212:PHE:CZ	2.85	0.54
2:R:37:VAL:CG1	2:R:45:VAL:HG13	2.37	0.54
1:U:207:ALA:HB2	2:V:201:GLU:HB2	1.87	0.54
2:V:119:LEU:HD23	2:V:122:ILE:HD11	1.88	0.54
2:X:140:ILE:HA	2:X:143:ARG:HB2	1.88	0.54
2:B:228:LEU:HD22	2:B:232:GLY:O	2.06	0.54
2:D:119:LEU:HD21	2:D:163:LEU:CD1	2.38	0.54
2:F:35:ARG:HB2	2:F:103:LEU:CD1	2.37	0.54
2:F:221:ALA:HB1	1:G:242:LEU:HD22	1.89	0.54
1:G:57:GLY:CA	2:H:52:GLU:OE1	2.52	0.54
1:G:278:LEU:HA	1:G:279:VAL:HG23	1.90	0.54
2:L:135:ASP:O	2:L:139:LEU:HG	2.06	0.54
1:M:82:ASP:OD1	1:M:82:ASP:O	2.25	0.54
1:M:142:LYS:CG	2:N:173:LEU:HB3	2.33	0.54
2:P:37:VAL:CG1	2:P:45:VAL:HG13	2.37	0.54
2:P:110:ILE:N	1:Q:85:ALA:CB	2.70	0.54
1:Q:153:LEU:HD23	1:Q:160:VAL:HG21	1.88	0.54
2:T:103:LEU:HA	2:T:106:ILE:HB	1.90	0.54
1:W:223:GLN:O	1:W:226:VAL:HG12	2.08	0.54
2:X:92:LEU:HD13	2:X:170:LEU:HD23	1.89	0.54
2:X:228:LEU:HD22	2:X:232:GLY:O	2.06	0.54
1:C:223:GLN:O	1:C:226:VAL:HG12	2.08	0.54
2:D:235:LEU:CD1	2:D:239:ARG:HG2	2.35	0.54
1:I:223:GLN:O	1:I:226:VAL:HG12	2.08	0.54
2:J:216:GLY:O	2:J:219:LYS:HG3	2.07	0.54
1:K:82:ASP:OD1	1:K:82:ASP:O	2.25	0.54
1:O:94:THR:HG23	1:O:142:LYS:HD2	1.89	0.54
2:P:119:LEU:HD21	2:P:163:LEU:CD1	2.38	0.54
2:R:68:ASP:O	2:R:98:PRO:HD2	2.08	0.54
2:T:43:ARG:CB	2:T:43:ARG:HG3	2.22	0.54
2:T:119:LEU:HD21	2:T:163:LEU:CD1	2.38	0.54
2:T:228:LEU:HD22	2:T:232:GLY:O	2.06	0.54
1:U:211:GLN:HG3	2:V:205:GLN:HG3	1.87	0.54
1:W:94:THR:HG23	1:W:142:LYS:HD2	1.89	0.54
2:X:216:GLY:O	2:X:219:LYS:HG3	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:280:LEU:CB	1:W:273:LEU:HD22	2.30	0.54
2:B:270:LEU:H	2:D:269:GLN:HB2	1.71	0.54
2:F:103:LEU:HA	2:F:106:ILE:HB	1.90	0.54
1:G:64:LEU:HD22	1:G:69:HIS:CE1	2.43	0.54
1:G:223:GLN:O	1:G:226:VAL:HG12	2.08	0.54
1:G:277:ASN:ND2	1:I:281:ASN:C	2.66	0.54
2:H:103:LEU:HA	2:H:106:ILE:HB	1.90	0.54
2:J:103:LEU:HA	2:J:106:ILE:HB	1.90	0.54
2:J:119:LEU:HD21	2:J:163:LEU:CD1	2.38	0.54
1:K:232:ALA:HB2	2:L:224:ILE:HG13	1.87	0.54
2:L:43:ARG:CB	2:L:43:ARG:HG2	2.22	0.54
2:N:30:VAL:HG21	2:N:36:ALA:HB2	1.90	0.54
2:N:103:LEU:HA	2:N:106:ILE:HB	1.90	0.54
2:N:135:ASP:O	2:N:139:LEU:HG	2.06	0.54
1:O:106:LEU:HD12	1:O:183:ALA:O	2.06	0.54
2:P:42:PHE:CB	1:Q:67:GLY:O	2.42	0.54
1:Q:64:LEU:HD22	1:Q:69:HIS:CE1	2.43	0.54
1:U:223:GLN:O	1:U:226:VAL:HG12	2.08	0.54
1:W:217:ALA:HB1	2:X:212:ILE:HG21	1.89	0.54
2:X:30:VAL:HG21	2:X:36:ALA:HB2	1.90	0.54
2:X:235:LEU:CD1	2:X:239:ARG:HG2	2.35	0.54
2:B:68:ASP:O	2:B:98:PRO:HD2	2.08	0.54
2:B:80:THR:HG21	2:B:131:VAL:HB	1.89	0.54
2:B:94:ILE:HD11	2:B:123:THR:OG1	2.08	0.54
2:B:103:LEU:HA	2:B:106:ILE:HB	1.90	0.54
2:B:216:GLY:O	2:B:219:LYS:HG3	2.07	0.54
2:D:37:VAL:CG1	2:D:45:VAL:HG13	2.37	0.54
1:E:64:LEU:HD22	1:E:69:HIS:CE1	2.43	0.54
2:J:140:ILE:HA	2:J:143:ARG:HB2	1.88	0.54
2:L:35:ARG:HB2	2:L:103:LEU:CD1	2.37	0.54
2:L:103:LEU:HA	2:L:106:ILE:HB	1.90	0.54
2:N:35:ARG:HB2	2:N:103:LEU:CD1	2.37	0.54
1:O:48:ARG:HB2	1:O:117:LEU:HD13	1.88	0.54
2:P:39:PHE:CE2	1:Q:44:GLU:CG	2.91	0.54
2:P:92:LEU:HD13	2:P:170:LEU:HD23	1.89	0.54
2:R:119:LEU:HD21	2:R:163:LEU:CD1	2.38	0.54
2:R:228:LEU:HD22	2:R:232:GLY:O	2.07	0.54
1:S:64:LEU:HD22	1:S:69:HIS:CE1	2.43	0.54
1:U:48:ARG:HB2	1:U:117:LEU:HD13	1.88	0.54
1:U:142:LYS:HE3	2:V:140:ILE:HD13	1.89	0.54
2:X:103:LEU:HA	2:X:106:ILE:HB	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:84:ARG:CG	2:X:108:THR:O	2.56	0.54
1:C:54:ARG:NH2	2:D:52:GLU:HB3	2.22	0.54
1:C:270:ARG:HD3	2:D:271:PRO:HG3	1.89	0.54
2:F:37:VAL:CG1	2:F:45:VAL:HG13	2.37	0.54
2:H:30:VAL:HG21	2:H:36:ALA:HB2	1.90	0.54
2:H:94:ILE:HD11	2:H:123:THR:OG1	2.08	0.54
2:J:224:ILE:HG22	1:K:251:LEU:HG	1.88	0.54
2:J:240:LYS:CG	1:M:282:LEU:HD13	2.37	0.54
1:K:153:LEU:HD23	1:K:160:VAL:HG21	1.88	0.54
1:M:125:GLY:HA3	2:N:70:ARG:CG	2.36	0.54
2:N:119:LEU:HD23	2:N:122:ILE:HD11	1.88	0.54
2:P:60:TRP:NE1	1:Q:42:THR:HA	2.22	0.54
2:P:128:LYS:CE	1:Q:157:ARG:HH11	2.20	0.54
2:P:157:ARG:CZ	1:Q:165:ARG:NH1	2.70	0.54
1:S:223:GLN:O	1:S:226:VAL:HG12	2.08	0.54
1:S:272:TYR:OH	2:T:271:PRO:HG3	2.08	0.54
2:T:216:GLY:O	2:T:219:LYS:HG3	2.07	0.54
1:U:64:LEU:HD22	1:U:69:HIS:CE1	2.43	0.54
2:V:41:ARG:HG3	1:W:43:VAL:O	2.07	0.54
1:W:64:LEU:HD22	1:W:69:HIS:CE1	2.43	0.54
1:A:278:LEU:HA	1:A:279:VAL:HG23	1.90	0.54
1:E:153:LEU:HD23	1:E:160:VAL:HG21	1.88	0.54
2:F:235:LEU:CD1	2:F:239:ARG:HG2	2.35	0.54
2:F:268:LEU:CD1	2:H:261:PRO:HG2	2.37	0.54
1:K:64:LEU:HD22	1:K:69:HIS:CE1	2.43	0.54
2:L:30:VAL:HG21	2:L:36:ALA:HB2	1.90	0.54
2:P:228:LEU:HD22	2:P:232:GLY:O	2.06	0.54
1:Q:223:GLN:O	1:Q:226:VAL:HG12	2.08	0.54
1:Q:245:ASN:OD1	1:S:295:ILE:CD1	2.55	0.54
2:R:269:GLN:HA	2:T:269:GLN:OE1	2.08	0.54
2:T:41:ARG:HG3	1:U:44:GLU:CA	2.35	0.54
2:V:68:ASP:O	2:V:98:PRO:HD2	2.08	0.54
2:V:246:ASP:HB3	1:W:258:GLN:HG2	1.90	0.54
1:W:153:LEU:HD23	1:W:160:VAL:HG21	1.88	0.54
2:X:119:LEU:HD23	2:X:122:ILE:HD11	1.88	0.54
2:B:30:VAL:HG21	2:B:36:ALA:HB2	1.90	0.54
2:B:37:VAL:CG1	2:B:45:VAL:HG13	2.37	0.54
1:C:82:ASP:OD1	1:C:82:ASP:O	2.25	0.54
2:D:80:THR:HG21	2:D:131:VAL:HB	1.89	0.54
2:D:140:ILE:HD11	2:D:173:LEU:HD21	1.90	0.54
2:D:182:ALA:HB3	1:E:205:GLN:HG3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:30:VAL:HG21	2:F:36:ALA:HB2	1.90	0.54
2:J:92:LEU:HD13	2:J:170:LEU:HD23	1.89	0.54
2:J:94:ILE:HD11	2:J:123:THR:OG1	2.08	0.54
2:L:119:LEU:HD21	2:L:163:LEU:CD1	2.38	0.54
1:O:64:LEU:HD22	1:O:69:HIS:CE1	2.43	0.54
1:O:82:ASP:O	1:O:82:ASP:OD1	2.25	0.54
2:P:41:ARG:HA	1:Q:47:HIS:O	2.07	0.54
1:S:272:TYR:HB2	2:T:258:THR:CG2	2.36	0.54
1:S:274:THR:HB	2:T:261:PRO:HG3	1.88	0.54
2:T:37:VAL:CG1	2:T:45:VAL:HG13	2.37	0.54
2:T:43:ARG:CB	2:T:43:ARG:HG2	2.22	0.54
2:X:28:TYR:HD1	2:X:30:VAL:HG23	1.71	0.54
2:X:68:ASP:O	2:X:98:PRO:HD2	2.08	0.54
2:X:80:THR:HG21	2:X:131:VAL:HB	1.89	0.54
2:X:94:ILE:HD11	2:X:123:THR:OG1	2.08	0.54
1:A:64:LEU:HD22	1:A:69:HIS:CE1	2.43	0.54
1:A:94:THR:HG23	1:A:142:LYS:HD2	1.89	0.54
1:A:223:GLN:O	1:A:226:VAL:HG12	2.08	0.54
2:D:30:VAL:HG21	2:D:36:ALA:HB2	1.90	0.54
2:D:68:ASP:O	2:D:98:PRO:HD2	2.08	0.54
1:E:278:LEU:HA	1:E:279:VAL:HG23	1.90	0.54
1:G:289:ARG:NH1	1:I:285:GLU:HG3	2.23	0.54
1:I:94:THR:HG23	1:I:142:LYS:HD2	1.89	0.54
2:J:37:VAL:CG1	2:J:45:VAL:HG13	2.37	0.54
2:L:68:ASP:O	2:L:98:PRO:HD2	2.08	0.54
1:M:64:LEU:HD22	1:M:69:HIS:CE1	2.43	0.54
2:N:68:ASP:O	2:N:98:PRO:HD2	2.08	0.54
2:P:43:ARG:CB	1:Q:67:GLY:HA3	2.35	0.54
2:T:28:TYR:HD1	2:T:30:VAL:HG23	1.71	0.54
2:V:28:TYR:HD1	2:V:30:VAL:HG23	1.71	0.54
1:A:139:GLU:HA	2:B:143:ARG:NH2	2.23	0.54
1:A:225:ILE:HD13	2:B:219:LYS:CG	2.36	0.54
1:G:253:LYS:HE2	1:I:291:SER:OG	2.07	0.54
2:H:80:THR:HG21	2:H:131:VAL:HB	1.89	0.54
2:J:68:ASP:O	2:J:98:PRO:HD2	2.08	0.54
2:L:57:LEU:HB2	2:L:62:GLN:HB2	1.90	0.54
1:M:125:GLY:CA	2:N:70:ARG:CD	2.86	0.54
1:O:278:LEU:HA	1:O:279:VAL:HG23	1.90	0.54
2:R:259:TYR:CZ	1:S:276:ASP:HA	2.38	0.54
2:T:30:VAL:HG21	2:T:36:ALA:HB2	1.90	0.54
2:T:94:ILE:HD11	2:T:123:THR:OG1	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:119:LEU:HD21	2:V:163:LEU:CD1	2.38	0.54
2:V:258:THR:O	1:W:273:LEU:HB2	2.08	0.54
2:V:270:LEU:HD11	2:X:260:LEU:HD11	1.89	0.54
2:B:268:LEU:HD13	2:D:260:LEU:CD2	2.38	0.53
1:C:94:THR:HG23	1:C:142:LYS:HD2	1.89	0.53
1:C:278:LEU:HA	1:C:279:VAL:HG23	1.90	0.53
2:D:94:ILE:HD11	2:D:123:THR:OG1	2.08	0.53
2:F:140:ILE:HD11	2:F:173:LEU:HD21	1.90	0.53
2:H:92:LEU:HD13	2:H:170:LEU:HD23	1.89	0.53
2:J:35:ARG:HB2	2:J:103:LEU:CD1	2.37	0.53
2:J:57:LEU:HB2	2:J:62:GLN:HB2	1.90	0.53
1:K:225:ILE:HD13	2:L:219:LYS:CD	2.38	0.53
1:K:278:LEU:HA	1:K:279:VAL:HG23	1.90	0.53
1:M:52:PHE:CE1	2:N:52:GLU:HB3	2.44	0.53
2:N:57:LEU:HB2	2:N:62:GLN:HB2	1.90	0.53
2:N:94:ILE:HD11	2:N:123:THR:OG1	2.08	0.53
2:P:41:ARG:O	1:Q:49:ALA:HB3	2.09	0.53
2:P:68:ASP:O	2:P:98:PRO:HD2	2.08	0.53
1:S:242:LEU:HD12	2:T:235:LEU:CD1	2.37	0.53
1:S:242:LEU:HD13	2:T:238:LEU:HD13	1.89	0.53
2:T:68:ASP:O	2:T:98:PRO:HD2	2.08	0.53
2:T:140:ILE:HD11	2:T:173:LEU:HD21	1.90	0.53
2:T:200:VAL:HG22	1:U:223:GLN:CA	2.38	0.53
2:V:258:THR:CG2	2:V:259:TYR:H	2.22	0.53
2:X:258:THR:CG2	2:X:259:TYR:H	2.22	0.53
1:A:284:ASP:HA	1:W:275:ALA:HB3	1.89	0.53
2:B:258:THR:CG2	2:B:259:TYR:H	2.21	0.53
2:H:57:LEU:HB2	2:H:62:GLN:HB2	1.90	0.53
1:I:274:THR:HG22	2:J:261:PRO:CB	2.38	0.53
2:J:80:THR:HG21	2:J:131:VAL:HB	1.89	0.53
2:P:139:LEU:HD12	2:P:175:PHE:CE1	2.39	0.53
1:Q:250:LYS:C	1:Q:254:ILE:HD12	2.34	0.53
2:R:217:ASP:HB3	1:S:248:TYR:CD2	2.42	0.53
1:S:253:LYS:HG2	2:T:241:LEU:CD2	2.36	0.53
2:V:94:ILE:HD11	2:V:123:THR:OG1	2.08	0.53
2:V:140:ILE:HD11	2:V:173:LEU:HD21	1.90	0.53
2:B:92:LEU:HD13	2:B:170:LEU:HD23	1.89	0.53
1:C:200:LYS:HB2	2:D:198:PHE:HD2	1.74	0.53
2:D:103:LEU:HA	2:D:106:ILE:HB	1.90	0.53
1:E:223:GLN:O	1:E:226:VAL:HG12	2.08	0.53
2:H:37:VAL:CG1	2:H:45:VAL:HG13	2.37	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:270:LEU:HD11	2:J:260:LEU:HD11	1.86	0.53
1:I:64:LEU:HD22	1:I:69:HIS:CE1	2.43	0.53
2:J:258:THR:CG2	2:J:259:TYR:H	2.22	0.53
1:K:223:GLN:O	1:K:226:VAL:HG12	2.08	0.53
2:L:140:ILE:HD11	2:L:173:LEU:HD21	1.90	0.53
1:M:54:ARG:HE	2:N:53:GLY:CA	2.17	0.53
2:P:200:VAL:HG22	1:Q:223:GLN:CB	2.34	0.53
2:P:262:ALA:HB3	1:Q:275:ALA:CB	2.37	0.53
1:Q:274:THR:HG21	2:R:259:TYR:CE2	2.43	0.53
2:R:257:ILE:CG2	1:S:278:LEU:HD12	2.39	0.53
2:T:235:LEU:CD1	2:T:239:ARG:HG2	2.36	0.53
1:W:82:ASP:O	1:W:82:ASP:OD1	2.25	0.53
1:W:250:LYS:C	1:W:254:ILE:HD12	2.34	0.53
1:A:250:LYS:C	1:A:254:ILE:HD12	2.34	0.53
1:C:250:LYS:C	1:C:254:ILE:HD12	2.34	0.53
1:E:94:THR:HG23	1:E:142:LYS:HD2	1.89	0.53
2:F:57:LEU:HB2	2:F:62:GLN:HB2	1.90	0.53
2:H:85:LEU:HD22	1:I:154:ILE:HG22	1.89	0.53
1:I:278:LEU:HA	1:I:279:VAL:HG23	1.90	0.53
1:M:278:LEU:HA	1:M:279:VAL:HG23	1.90	0.53
2:P:103:LEU:HA	2:P:106:ILE:HB	1.90	0.53
2:P:110:ILE:CA	1:Q:109:LEU:HD21	2.37	0.53
2:P:176:GLY:HA3	1:Q:198:GLU:OE2	2.08	0.53
2:R:103:LEU:HA	2:R:106:ILE:HB	1.90	0.53
1:S:275:ALA:HB2	2:T:264:GLN:HE21	1.73	0.53
1:U:6:LYS:HZ1	2:V:10:GLY:HA2	1.73	0.53
2:V:30:VAL:HG21	2:V:36:ALA:HB2	1.90	0.53
2:V:258:THR:HB	1:W:272:TYR:CA	2.38	0.53
1:W:278:LEU:HA	1:W:279:VAL:HG23	1.90	0.53
2:X:140:ILE:HD11	2:X:173:LEU:HD21	1.90	0.53
2:B:92:LEU:HD23	2:B:123:THR:HG23	1.91	0.53
2:D:46:GLN:O	2:D:104:PRO:HG3	2.09	0.53
2:D:247:ILE:HA	1:E:262:LYS:HA	1.89	0.53
2:H:140:ILE:HD11	2:H:173:LEU:HD21	1.90	0.53
2:J:30:VAL:HG21	2:J:36:ALA:HB2	1.90	0.53
1:K:229:GLU:HG3	2:L:223:LEU:CD1	2.39	0.53
2:L:139:LEU:HD12	2:L:175:PHE:CE1	2.39	0.53
1:M:112:PRO:CA	1:M:177:LEU:HD23	2.39	0.53
2:N:46:GLN:O	2:N:104:PRO:HG3	2.09	0.53
2:P:30:VAL:HG21	2:P:36:ALA:HB2	1.90	0.53
1:Q:278:LEU:HA	1:Q:279:VAL:HG23	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:237:GLU:HG3	1:S:294:LEU:HA	1.91	0.53
1:S:278:LEU:HA	1:S:279:VAL:HG23	1.90	0.53
1:U:250:LYS:C	1:U:254:ILE:HD12	2.34	0.53
2:V:258:THR:HG22	2:V:259:TYR:N	2.20	0.53
1:A:285:GLU:HG3	1:W:289:ARG:HH12	1.73	0.53
2:B:57:LEU:HB2	2:B:62:GLN:HB2	1.90	0.53
2:F:68:ASP:O	2:F:98:PRO:HD2	2.08	0.53
1:G:112:PRO:CA	1:G:177:LEU:HD23	2.39	0.53
2:L:94:ILE:HD11	2:L:123:THR:OG1	2.08	0.53
1:M:223:GLN:O	1:M:226:VAL:HG12	2.08	0.53
2:R:46:GLN:O	2:R:104:PRO:HG3	2.09	0.53
2:R:94:ILE:HD11	2:R:123:THR:OG1	2.08	0.53
1:S:221:GLN:HG2	2:T:212:ILE:CG2	2.38	0.53
1:W:112:PRO:CA	1:W:177:LEU:HD23	2.39	0.53
2:X:57:LEU:HB2	2:X:62:GLN:HB2	1.90	0.53
2:B:185:ALA:HB1	1:C:212:PHE:CE2	2.43	0.53
2:H:68:ASP:O	2:H:98:PRO:HD2	2.08	0.53
1:I:164:ILE:CD1	1:I:184:ILE:HD11	2.31	0.53
1:I:232:ALA:HB2	2:J:223:LEU:HB3	1.89	0.53
1:K:48:ARG:HB2	1:K:117:LEU:HD13	1.88	0.53
1:O:164:ILE:CD1	1:O:184:ILE:HD11	2.31	0.53
2:P:140:ILE:HD11	2:P:173:LEU:HD21	1.90	0.53
2:P:182:ALA:CB	1:Q:205:GLN:C	2.82	0.53
1:Q:249:ILE:HD12	2:R:238:LEU:HA	1.90	0.53
2:R:140:ILE:HD11	2:R:173:LEU:HD21	1.90	0.53
1:S:253:LYS:NZ	2:T:241:LEU:HD11	2.23	0.53
2:V:92:LEU:HD23	2:V:123:THR:HG23	1.91	0.53
2:V:258:THR:CA	1:W:272:TYR:HA	2.39	0.53
2:X:92:LEU:HD23	2:X:123:THR:HG23	1.91	0.53
1:C:64:LEU:HD22	1:C:69:HIS:CE1	2.43	0.53
1:C:83:ILE:HA	1:C:112:PRO:HD2	1.91	0.53
1:C:142:LYS:HE3	2:D:140:ILE:CD1	2.21	0.53
1:C:192:GLU:HB3	2:D:188:VAL:HG11	1.90	0.53
2:J:140:ILE:HD11	2:J:173:LEU:HD21	1.90	0.53
2:J:240:LYS:HZ3	1:M:283:GLN:CG	2.21	0.53
1:K:106:LEU:HB2	1:K:141:LEU:HD21	1.91	0.53
1:K:236:LYS:CE	2:L:227:SER:HA	2.38	0.53
1:M:106:LEU:HB2	1:M:141:LEU:HD21	1.91	0.53
2:N:221:ALA:HA	1:O:248:TYR:HB2	1.90	0.53
1:S:106:LEU:HB2	1:S:141:LEU:HD21	1.91	0.53
1:S:250:LYS:C	1:S:254:ILE:HD12	2.34	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:46:GLN:O	2:T:104:PRO:HG3	2.09	0.53
1:A:68:LEU:HD23	2:X:43:ARG:NH1	2.16	0.53
1:A:280:LEU:CB	1:W:273:LEU:CD2	2.87	0.53
2:F:119:LEU:HD21	2:F:163:LEU:CD1	2.37	0.53
1:M:135:SER:HB3	2:N:93:ARG:HG3	1.91	0.53
2:P:94:ILE:HD11	2:P:123:THR:OG1	2.08	0.53
2:P:117:ARG:HH11	1:Q:87:PRO:HG2	1.74	0.53
2:R:43:ARG:CB	2:R:43:ARG:HG2	2.22	0.53
2:R:92:LEU:HD23	2:R:123:THR:HG23	1.91	0.53
1:S:112:PRO:CA	1:S:177:LEU:HD23	2.39	0.53
2:T:57:LEU:HB2	2:T:62:GLN:HB2	1.90	0.53
1:A:200:LYS:O	2:B:198:PHE:HD2	1.92	0.53
2:D:57:LEU:HB2	2:D:62:GLN:HB2	1.90	0.53
2:D:221:ALA:HA	1:E:248:TYR:CD2	2.44	0.53
2:J:41:ARG:NE	1:K:43:VAL:O	2.42	0.53
2:L:204:GLU:HG3	1:M:226:VAL:HG11	1.91	0.53
2:L:258:THR:CG2	2:L:259:TYR:H	2.22	0.53
2:P:39:PHE:HE2	1:Q:44:GLU:CG	2.22	0.53
2:P:121:SER:HB3	1:Q:183:ALA:CB	2.39	0.53
2:P:121:SER:HB3	1:Q:183:ALA:HB3	1.91	0.53
2:P:259:TYR:OH	1:Q:278:LEU:C	2.52	0.53
2:R:57:LEU:HB2	2:R:62:GLN:HB2	1.90	0.53
1:S:263:THR:O	2:T:252:SER:HB2	2.09	0.53
2:V:103:LEU:HA	2:V:106:ILE:HB	1.90	0.53
1:C:175:PHE:CZ	2:D:167:ASP:CG	2.87	0.52
2:F:94:ILE:HD11	2:F:123:THR:OG1	2.08	0.52
1:I:112:PRO:HA	1:I:176:SER:O	2.09	0.52
1:K:164:ILE:CD1	1:K:184:ILE:HD11	2.31	0.52
1:K:250:LYS:C	1:K:254:ILE:HD12	2.34	0.52
2:L:229:ALA:HB2	1:M:245:ASN:HB3	1.91	0.52
2:N:92:LEU:HD23	2:N:123:THR:HG23	1.91	0.52
2:P:45:VAL:HG23	1:Q:46:GLY:HA2	1.91	0.52
1:Q:242:LEU:HD13	2:R:238:LEU:HD22	1.89	0.52
2:R:215:GLU:CG	1:S:237:MET:HE3	2.35	0.52
1:S:249:ILE:CD1	2:T:237:GLU:O	2.58	0.52
2:V:43:ARG:CB	2:V:43:ARG:HG2	2.22	0.52
1:A:112:PRO:CA	1:A:177:LEU:HD23	2.39	0.52
2:B:35:ARG:HB2	2:B:69:CYS:SG	2.50	0.52
1:C:77:TYR:CD2	2:D:32:ALA:HB3	2.43	0.52
2:D:85:LEU:HD22	1:E:155:THR:CG2	2.40	0.52
1:G:135:SER:HB3	2:H:171:THR:CG2	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:250:LYS:C	1:G:254:ILE:HD12	2.33	0.52
2:H:35:ARG:HB2	2:H:69:CYS:SG	2.50	0.52
1:K:232:ALA:HB2	2:L:224:ILE:CG1	2.39	0.52
1:O:250:LYS:C	1:O:254:ILE:HD12	2.34	0.52
2:P:35:ARG:HA	2:P:52:GLU:HG3	1.92	0.52
1:Q:112:PRO:CA	1:Q:177:LEU:HD23	2.39	0.52
2:R:30:VAL:HG21	2:R:36:ALA:HB2	1.90	0.52
2:R:35:ARG:HA	2:R:52:GLU:HG3	1.92	0.52
2:R:259:TYR:OH	1:S:281:ASN:CG	2.52	0.52
2:R:266:VAL:HB	2:T:264:GLN:HB3	1.92	0.52
1:U:278:LEU:HA	1:U:279:VAL:HG23	1.90	0.52
1:C:192:GLU:CB	2:D:188:VAL:HG11	2.38	0.52
1:C:200:LYS:HB2	2:D:198:PHE:CD2	2.44	0.52
2:D:173:LEU:O	2:D:174:THR:HG23	2.10	0.52
2:D:236:ILE:N	1:E:251:LEU:HD22	2.24	0.52
2:D:258:THR:CG2	2:D:259:TYR:H	2.21	0.52
2:F:35:ARG:HA	2:F:52:GLU:HG3	1.92	0.52
2:F:46:GLN:O	2:F:104:PRO:HG3	2.09	0.52
2:F:268:LEU:HD12	2:H:261:PRO:HG2	1.91	0.52
1:I:83:ILE:HA	1:I:112:PRO:HD2	1.91	0.52
2:J:35:ARG:HB2	2:J:69:CYS:SG	2.50	0.52
2:J:46:GLN:O	2:J:104:PRO:HG3	2.09	0.52
1:K:112:PRO:CA	1:K:177:LEU:HD23	2.39	0.52
2:N:235:LEU:CD1	2:N:239:ARG:HG2	2.36	0.52
2:P:43:ARG:CB	2:P:43:ARG:HG2	2.22	0.52
2:P:57:LEU:HB2	2:P:62:GLN:HB2	1.90	0.52
2:R:33:GLY:O	2:R:69:CYS:N	2.43	0.52
2:T:33:GLY:O	2:T:69:CYS:N	2.43	0.52
2:V:211:ILE:HG23	1:W:233:GLU:OE2	2.10	0.52
2:X:35:ARG:HB2	2:X:69:CYS:SG	2.50	0.52
1:A:284:ASP:CA	1:W:275:ALA:HB3	2.39	0.52
2:B:269:GLN:HA	2:D:269:GLN:CB	2.34	0.52
2:D:33:GLY:O	2:D:69:CYS:N	2.43	0.52
2:D:35:ARG:HB2	2:D:69:CYS:SG	2.50	0.52
1:E:250:LYS:C	1:E:254:ILE:HD12	2.34	0.52
2:F:181:GLU:O	2:F:184:GLU:HB3	2.10	0.52
2:H:258:THR:CG2	2:H:259:TYR:H	2.21	0.52
1:I:250:LYS:C	1:I:254:ILE:HD12	2.34	0.52
2:N:258:THR:CG2	2:N:259:TYR:H	2.21	0.52
1:O:106:LEU:HD21	1:O:182:VAL:CG1	2.40	0.52
2:R:181:GLU:O	2:R:184:GLU:HB3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:259:TYR:OH	1:S:281:ASN:N	2.43	0.52
2:V:35:ARG:HB2	2:V:69:CYS:SG	2.50	0.52
1:W:106:LEU:HB2	1:W:141:LEU:HD21	1.91	0.52
1:A:83:ILE:HA	1:A:112:PRO:HD2	1.91	0.52
1:A:253:LYS:HB3	1:C:279:VAL:HG13	1.90	0.52
1:C:106:LEU:HB2	1:C:141:LEU:HD21	1.91	0.52
2:D:211:ILE:HG12	1:E:230:GLY:HA3	1.92	0.52
2:D:267:LEU:HD21	2:F:269:GLN:OE1	2.09	0.52
1:E:106:LEU:HB2	1:E:141:LEU:HD21	1.91	0.52
1:G:106:LEU:HB2	1:G:141:LEU:HD21	1.91	0.52
2:L:35:ARG:HB2	2:L:69:CYS:SG	2.50	0.52
2:X:35:ARG:HA	2:X:52:GLU:HG3	1.92	0.52
1:A:106:LEU:HD21	1:A:182:VAL:CG1	2.40	0.52
1:A:204:GLN:HB2	2:B:198:PHE:CD1	2.44	0.52
2:B:140:ILE:HD11	2:B:173:LEU:HD21	1.90	0.52
2:B:181:GLU:O	2:B:184:GLU:HB3	2.10	0.52
1:C:112:PRO:CA	1:C:177:LEU:HD23	2.39	0.52
1:G:112:PRO:HA	1:G:176:SER:O	2.10	0.52
2:H:181:GLU:O	2:H:184:GLU:HB3	2.10	0.52
1:I:106:LEU:HB2	1:I:141:LEU:HD21	1.91	0.52
1:I:106:LEU:HD21	1:I:182:VAL:CG1	2.40	0.52
2:J:181:GLU:O	2:J:184:GLU:HB3	2.10	0.52
2:L:92:LEU:HD23	2:L:123:THR:HG23	1.91	0.52
2:N:130:VAL:HG12	2:N:146:VAL:HG13	1.92	0.52
2:N:140:ILE:HD11	2:N:173:LEU:HD21	1.90	0.52
2:P:41:ARG:NH1	1:Q:80:ILE:HD13	2.24	0.52
2:P:181:GLU:O	2:P:184:GLU:HB3	2.10	0.52
2:R:259:TYR:CZ	1:S:281:ASN:CG	2.87	0.52
2:T:173:LEU:O	2:T:174:THR:HG23	2.10	0.52
1:E:83:ILE:HA	1:E:112:PRO:HD2	1.91	0.52
1:E:112:PRO:HA	1:E:176:SER:O	2.10	0.52
2:F:173:LEU:O	2:F:174:THR:HG23	2.10	0.52
2:J:225:ALA:N	1:K:248:TYR:HB2	2.25	0.52
2:L:130:VAL:HG12	2:L:146:VAL:HG13	1.92	0.52
2:L:218:SER:OG	1:M:238:LEU:CD2	2.57	0.52
2:N:35:ARG:HB2	2:N:69:CYS:SG	2.50	0.52
2:N:35:ARG:HA	2:N:52:GLU:HG3	1.92	0.52
2:N:262:ALA:CB	2:P:264:GLN:NE2	2.72	0.52
1:O:83:ILE:HA	1:O:112:PRO:HD2	1.91	0.52
2:P:85:LEU:HB2	1:Q:197:VAL:HG12	1.87	0.52
2:P:173:LEU:O	2:P:174:THR:HG23	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:35:ARG:HB2	2:R:69:CYS:SG	2.50	0.52
2:R:214:ALA:HB2	2:T:242:GLU:OE2	2.10	0.52
1:U:106:LEU:HB2	1:U:141:LEU:HD21	1.91	0.52
2:V:46:GLN:O	2:V:104:PRO:HG3	2.09	0.52
2:V:256:ASN:CG	1:W:270:ARG:HG2	2.35	0.52
2:X:173:LEU:O	2:X:174:THR:HG23	2.10	0.52
2:X:181:GLU:O	2:X:184:GLU:HB3	2.10	0.52
1:C:193:TYR:CE2	2:D:191:GLN:HG3	2.45	0.52
2:D:182:ALA:CB	1:E:205:GLN:CG	2.88	0.52
1:G:112:PRO:HD3	1:G:128:TYR:CE2	2.45	0.52
2:H:33:GLY:O	2:H:69:CYS:N	2.43	0.52
2:H:46:GLN:O	2:H:104:PRO:HG3	2.09	0.52
2:H:269:GLN:HG3	2:J:269:GLN:CD	2.35	0.52
2:L:41:ARG:CD	1:M:43:VAL:O	2.58	0.52
2:L:46:GLN:O	2:L:104:PRO:HG3	2.09	0.52
1:M:123:ARG:O	2:N:71:SER:N	2.42	0.52
2:N:119:LEU:HD21	2:N:163:LEU:CD1	2.38	0.52
2:P:92:LEU:HD23	2:P:123:THR:HG23	1.91	0.52
1:Q:112:PRO:HA	1:Q:176:SER:O	2.10	0.52
2:R:43:ARG:CB	2:R:43:ARG:HG3	2.22	0.52
2:R:258:THR:CG2	2:R:259:TYR:H	2.22	0.52
1:S:83:ILE:HA	1:S:112:PRO:HD2	1.91	0.52
2:T:92:LEU:HD23	2:T:123:THR:HG23	1.91	0.52
1:U:112:PRO:HD3	1:U:128:TYR:CE2	2.45	0.52
2:X:46:GLN:O	2:X:104:PRO:HG3	2.09	0.52
1:A:112:PRO:HA	1:A:176:SER:O	2.09	0.52
1:C:112:PRO:HA	1:C:176:SER:O	2.10	0.52
1:C:271:ILE:CG2	1:C:273:LEU:HD21	2.40	0.52
2:D:43:ARG:CG	2:D:43:ARG:HB3	2.24	0.52
2:D:251:LEU:HD23	1:E:265:ALA:N	2.25	0.52
2:J:41:ARG:HG2	1:K:43:VAL:CB	2.20	0.52
1:M:146:ALA:HB1	2:N:140:ILE:CG2	2.37	0.52
1:M:272:TYR:O	2:N:259:TYR:HD2	1.92	0.52
1:O:106:LEU:HB2	1:O:141:LEU:HD21	1.91	0.52
2:P:35:ARG:HB2	2:P:69:CYS:SG	2.50	0.52
2:P:46:GLN:O	2:P:104:PRO:HG3	2.09	0.52
2:P:258:THR:CG2	2:P:259:TYR:H	2.21	0.52
1:Q:106:LEU:HD21	1:Q:182:VAL:CG1	2.40	0.52
2:R:251:LEU:CD1	1:S:278:LEU:CD2	2.88	0.52
1:U:83:ILE:HA	1:U:112:PRO:HD2	1.91	0.52
1:W:112:PRO:HA	1:W:176:SER:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:271:ILE:CG2	1:W:273:LEU:HD21	2.40	0.52
2:X:92:LEU:CD2	2:X:154:LEU:HD22	2.40	0.52
1:C:112:PRO:HD3	1:C:128:TYR:CE2	2.45	0.52
2:D:41:ARG:NH1	1:E:43:VAL:CG1	2.73	0.52
2:D:239:ARG:HE	1:E:258:GLN:HE22	1.56	0.52
2:D:239:ARG:O	1:E:258:GLN:HG2	2.10	0.52
1:E:106:LEU:HD21	1:E:182:VAL:CG1	2.40	0.52
2:F:33:GLY:O	2:F:69:CYS:N	2.43	0.52
1:G:257:ALA:CA	1:I:279:VAL:HG11	2.39	0.52
2:H:173:LEU:O	2:H:174:THR:HG23	2.10	0.52
1:I:112:PRO:CA	1:I:177:LEU:HD23	2.39	0.52
2:J:43:ARG:CB	2:J:43:ARG:HG3	2.22	0.52
2:J:130:VAL:HG12	2:J:146:VAL:HG13	1.92	0.52
2:J:173:LEU:O	2:J:174:THR:HG23	2.10	0.52
1:K:271:ILE:CG2	1:K:273:LEU:HD21	2.40	0.52
2:L:270:LEU:HD13	1:M:272:TYR:CE2	2.45	0.52
2:N:262:ALA:HB2	2:P:264:GLN:NE2	2.25	0.52
2:P:33:GLY:O	2:P:69:CYS:N	2.43	0.52
2:P:189:ALA:CB	1:Q:212:PHE:CE1	2.91	0.52
1:S:106:LEU:HD21	1:S:182:VAL:CG1	2.40	0.52
1:U:106:LEU:HD21	1:U:182:VAL:CG1	2.40	0.52
1:U:112:PRO:HA	1:U:176:SER:O	2.10	0.52
2:V:92:LEU:CD2	2:V:154:LEU:HD22	2.40	0.52
2:V:258:THR:O	1:W:273:LEU:CB	2.58	0.52
1:W:112:PRO:HD3	1:W:128:TYR:CE2	2.45	0.52
1:A:193:TYR:CE1	2:B:187:GLN:C	2.88	0.51
2:B:33:GLY:O	2:B:69:CYS:N	2.43	0.51
2:B:46:GLN:O	2:B:104:PRO:HG3	2.09	0.51
2:B:173:LEU:O	2:B:174:THR:HG23	2.10	0.51
1:C:106:LEU:HD21	1:C:182:VAL:CG1	2.40	0.51
1:C:280:LEU:HD23	1:C:282:LEU:HD11	1.92	0.51
2:D:97:ARG:O	2:D:97:ARG:HG3	2.11	0.51
1:E:112:PRO:CA	1:E:177:LEU:HD23	2.39	0.51
1:G:83:ILE:HA	1:G:112:PRO:HD2	1.92	0.51
1:I:280:LEU:HD23	1:I:282:LEU:HD11	1.93	0.51
2:L:224:ILE:HG21	1:M:251:LEU:HG	1.93	0.51
1:M:125:GLY:CA	2:N:70:ARG:CG	2.87	0.51
1:M:138:ASN:HD22	2:N:171:THR:HG23	1.74	0.51
1:M:250:LYS:C	1:M:254:ILE:HD12	2.34	0.51
1:O:112:PRO:CA	1:O:177:LEU:HD23	2.39	0.51
2:P:92:LEU:CD2	2:P:154:LEU:HD22	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:92:LEU:CD2	2:R:154:LEU:HD22	2.40	0.51
2:R:97:ARG:HG3	2:R:97:ARG:O	2.11	0.51
1:S:135:SER:CB	2:T:93:ARG:CZ	2.88	0.51
2:T:259:TYR:HE1	1:U:278:LEU:HB2	1.73	0.51
1:U:210:ALA:CB	2:V:205:GLN:HB2	2.39	0.51
2:V:35:ARG:HA	2:V:52:GLU:HG3	1.92	0.51
2:V:57:LEU:HB2	2:V:62:GLN:HB2	1.90	0.51
2:V:97:ARG:HG3	2:V:97:ARG:O	2.11	0.51
2:V:130:VAL:HG12	2:V:146:VAL:HG13	1.92	0.51
2:V:256:ASN:HB2	1:W:270:ARG:HG2	1.91	0.51
2:B:119:LEU:HD21	2:B:163:LEU:CD1	2.38	0.51
2:F:258:THR:CG2	2:F:259:TYR:H	2.21	0.51
1:G:271:ILE:CG2	1:G:273:LEU:HD21	2.40	0.51
2:J:33:GLY:O	2:J:69:CYS:N	2.43	0.51
2:J:35:ARG:HA	2:J:52:GLU:HG3	1.92	0.51
2:L:33:GLY:O	2:L:69:CYS:N	2.43	0.51
1:M:112:PRO:HD3	1:M:128:TYR:CE2	2.45	0.51
1:O:164:ILE:HD12	1:O:184:ILE:CD1	2.36	0.51
1:Q:106:LEU:HB2	1:Q:141:LEU:HD21	1.91	0.51
1:U:6:LYS:NZ	2:V:10:GLY:CA	2.73	0.51
2:V:218:SER:HB2	1:W:238:LEU:HG	1.92	0.51
2:V:235:LEU:O	1:W:251:LEU:CD2	2.58	0.51
2:V:239:ARG:CB	1:W:251:LEU:HD13	2.40	0.51
2:X:130:VAL:HG12	2:X:146:VAL:HG13	1.92	0.51
1:A:112:PRO:HD3	1:A:128:TYR:CE2	2.45	0.51
2:B:204:GLU:CB	1:C:226:VAL:HG21	2.41	0.51
2:B:270:LEU:HB2	2:D:269:GLN:O	2.11	0.51
2:D:204:GLU:HA	1:E:226:VAL:HG11	1.91	0.51
1:E:96:SER:HA	1:E:146:ALA:HA	1.93	0.51
2:F:35:ARG:HB2	2:F:69:CYS:SG	2.50	0.51
1:I:102:VAL:CG1	1:I:187:LEU:HD12	2.41	0.51
1:K:48:ARG:HG3	1:K:117:LEU:HD12	1.93	0.51
1:K:112:PRO:HD3	1:K:128:TYR:CE2	2.45	0.51
2:L:173:LEU:O	2:L:174:THR:HG23	2.10	0.51
1:M:96:SER:HA	1:M:146:ALA:HA	1.93	0.51
1:M:271:ILE:CG2	1:M:273:LEU:HD21	2.40	0.51
2:N:33:GLY:O	2:N:69:CYS:N	2.43	0.51
2:N:97:ARG:HG3	2:N:97:ARG:O	2.11	0.51
1:O:112:PRO:HD3	1:O:128:TYR:CE2	2.45	0.51
2:P:157:ARG:CZ	1:Q:165:ARG:HH12	2.23	0.51
2:R:130:VAL:HG12	2:R:146:VAL:HG13	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:253:LYS:NZ	2:T:241:LEU:HD13	2.25	0.51
2:T:92:LEU:CD2	2:T:154:LEU:HD22	2.40	0.51
2:V:33:GLY:O	2:V:69:CYS:N	2.43	0.51
2:B:92:LEU:CD2	2:B:154:LEU:HD22	2.40	0.51
2:D:92:LEU:HD23	2:D:123:THR:HG23	1.91	0.51
2:D:235:LEU:C	1:E:251:LEU:HD13	2.35	0.51
2:F:130:VAL:HG12	2:F:146:VAL:HG13	1.92	0.51
1:G:106:LEU:HD21	1:G:182:VAL:CG1	2.40	0.51
2:H:97:ARG:HG3	2:H:97:ARG:O	2.11	0.51
2:J:92:LEU:CD2	2:J:154:LEU:HD22	2.40	0.51
2:J:97:ARG:HG3	2:J:97:ARG:O	2.11	0.51
2:L:35:ARG:HA	2:L:52:GLU:HG3	1.92	0.51
2:N:92:LEU:CD2	2:N:154:LEU:HD22	2.40	0.51
1:O:96:SER:HA	1:O:146:ALA:HA	1.93	0.51
1:Q:112:PRO:HD3	1:Q:128:TYR:CE2	2.45	0.51
2:R:225:ALA:HB1	1:S:244:LYS:HB3	1.93	0.51
1:S:271:ILE:CG2	1:S:273:LEU:HD21	2.40	0.51
2:T:43:ARG:CG	2:T:43:ARG:HB2	2.24	0.51
2:T:181:GLU:O	2:T:184:GLU:HB3	2.10	0.51
1:U:112:PRO:CA	1:U:177:LEU:HD23	2.39	0.51
1:W:106:LEU:HD21	1:W:182:VAL:CG1	2.40	0.51
1:G:164:ILE:HD12	1:G:184:ILE:CD1	2.36	0.51
1:M:106:LEU:HD21	1:M:182:VAL:CG1	2.40	0.51
1:M:124:LEU:C	2:N:70:ARG:HB3	2.36	0.51
1:O:112:PRO:HA	1:O:176:SER:O	2.10	0.51
1:Q:271:ILE:CG2	1:Q:273:LEU:HD21	2.40	0.51
1:S:112:PRO:HA	1:S:176:SER:O	2.10	0.51
2:T:35:ARG:HB2	2:T:69:CYS:SG	2.50	0.51
1:U:271:ILE:CG2	1:U:273:LEU:HD21	2.40	0.51
1:W:83:ILE:HA	1:W:112:PRO:HD2	1.91	0.51
1:W:280:LEU:HD23	1:W:282:LEU:HD11	1.93	0.51
1:A:68:LEU:N	2:X:43:ARG:HD2	2.26	0.51
2:B:97:ARG:HG3	2:B:97:ARG:O	2.10	0.51
1:C:266:THR:OG1	2:D:252:SER:CB	2.59	0.51
2:D:35:ARG:HA	2:D:52:GLU:HG3	1.92	0.51
2:D:181:GLU:O	2:D:184:GLU:HB3	2.10	0.51
1:E:112:PRO:HD3	1:E:128:TYR:CE2	2.45	0.51
1:E:280:LEU:HD23	1:E:282:LEU:HD11	1.93	0.51
1:G:102:VAL:CG1	1:G:187:LEU:HD12	2.41	0.51
1:G:280:LEU:HD23	1:G:282:LEU:HD11	1.93	0.51
2:H:92:LEU:HD23	2:H:123:THR:HG23	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:130:VAL:HG12	2:H:146:VAL:HG13	1.92	0.51
1:I:96:SER:HA	1:I:146:ALA:HA	1.93	0.51
1:K:102:VAL:CG1	1:K:187:LEU:HD12	2.41	0.51
1:K:106:LEU:HD21	1:K:182:VAL:CG1	2.40	0.51
1:K:210:ALA:O	1:K:214:VAL:HG23	2.11	0.51
1:M:48:ARG:HG3	1:M:117:LEU:HD12	1.93	0.51
1:M:102:VAL:CG1	1:M:187:LEU:HD12	2.41	0.51
1:O:48:ARG:HG3	1:O:117:LEU:HD12	1.93	0.51
1:O:210:ALA:O	1:O:214:VAL:HG23	2.11	0.51
2:P:130:VAL:HG12	2:P:146:VAL:HG13	1.92	0.51
1:Q:102:VAL:CG1	1:Q:187:LEU:HD12	2.41	0.51
1:Q:210:ALA:O	1:Q:214:VAL:HG23	2.11	0.51
1:S:112:PRO:HD3	1:S:128:TYR:CE2	2.45	0.51
1:S:269:ASN:ND2	2:T:257:ILE:CD1	2.68	0.51
1:S:272:TYR:HD1	2:T:258:THR:CG2	2.19	0.51
1:W:96:SER:HA	1:W:146:ALA:HA	1.93	0.51
1:W:102:VAL:CG1	1:W:187:LEU:HD12	2.41	0.51
1:W:164:ILE:HD12	1:W:184:ILE:CD1	2.36	0.51
2:X:94:ILE:HG21	2:X:119:LEU:HD22	1.93	0.51
1:A:106:LEU:HB2	1:A:141:LEU:HD21	1.91	0.51
1:A:210:ALA:O	1:A:214:VAL:HG23	2.11	0.51
1:A:271:ILE:CG2	1:A:273:LEU:HD21	2.40	0.51
2:B:130:VAL:HG12	2:B:146:VAL:HG13	1.92	0.51
2:B:211:ILE:HG12	1:C:233:GLU:OE2	2.11	0.51
1:C:210:ALA:O	1:C:214:VAL:HG23	2.11	0.51
2:D:85:LEU:HD21	1:E:155:THR:HB	1.91	0.51
1:E:48:ARG:HG3	1:E:117:LEU:HD12	1.93	0.51
1:E:271:ILE:CG2	1:E:273:LEU:HD21	2.40	0.51
2:F:92:LEU:CD2	2:F:154:LEU:HD22	2.40	0.51
1:I:128:TYR:CD2	1:I:129:GLU:N	2.79	0.51
1:I:271:ILE:CG2	1:I:273:LEU:HD21	2.40	0.51
2:J:85:LEU:HD21	1:K:155:THR:HG22	1.91	0.51
2:J:221:ALA:CA	1:K:248:TYR:CD2	2.92	0.51
2:J:228:LEU:HD23	2:J:231:ALA:HB3	1.93	0.51
2:L:181:GLU:O	2:L:184:GLU:HB3	2.10	0.51
1:M:121:TYR:CE2	2:N:32:ALA:CB	2.89	0.51
1:M:274:THR:HG1	1:M:277:ASN:CG	2.16	0.51
2:N:218:SER:O	2:N:221:ALA:HB3	2.11	0.51
2:P:39:PHE:HA	1:Q:45:GLY:O	2.10	0.51
2:P:228:LEU:HD23	2:P:231:ALA:HB3	1.93	0.51
1:Q:83:ILE:HA	1:Q:112:PRO:HD2	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:173:LEU:O	2:R:174:THR:HG23	2.10	0.51
1:S:110:SER:HA	1:S:179:LEU:HD23	1.93	0.51
1:U:96:SER:HA	1:U:146:ALA:HA	1.93	0.51
1:U:108:VAL:HG13	1:U:182:VAL:HG22	1.93	0.51
2:X:33:GLY:O	2:X:69:CYS:N	2.43	0.51
1:A:40:VAL:HG21	2:X:42:PHE:HD1	1.76	0.51
1:A:225:ILE:HA	2:B:219:LYS:CE	2.39	0.51
1:C:128:TYR:CD2	1:C:129:GLU:N	2.79	0.51
2:H:92:LEU:CD2	2:H:154:LEU:HD22	2.40	0.51
2:J:92:LEU:HD23	2:J:123:THR:HG23	1.91	0.51
1:K:112:PRO:HA	1:K:176:SER:O	2.10	0.51
2:L:182:ALA:HB3	1:M:205:GLN:HB3	1.92	0.51
1:M:54:ARG:HH21	2:N:53:GLY:H	1.57	0.51
1:M:280:LEU:HD23	1:M:282:LEU:HD11	1.93	0.51
2:N:173:LEU:O	2:N:174:THR:HG23	2.10	0.51
1:O:102:VAL:CG1	1:O:187:LEU:HD12	2.41	0.51
2:P:110:ILE:CG2	1:Q:109:LEU:HD21	2.40	0.51
2:P:128:LYS:CE	1:Q:157:ARG:NH1	2.74	0.51
1:Q:96:SER:HA	1:Q:146:ALA:HA	1.93	0.51
1:Q:221:GLN:HG2	2:R:212:ILE:CG2	2.36	0.51
1:Q:260:ILE:HG12	2:R:249:TYR:HD1	1.74	0.51
1:S:102:VAL:CG1	1:S:187:LEU:HD12	2.41	0.51
1:S:210:ALA:O	1:S:214:VAL:HG23	2.11	0.51
2:T:217:ASP:O	1:U:248:TYR:CE2	2.64	0.51
1:U:102:VAL:CG1	1:U:187:LEU:HD12	2.41	0.51
1:U:225:ILE:HA	2:V:219:LYS:HE2	1.92	0.51
1:U:280:LEU:HD23	1:U:282:LEU:HD11	1.93	0.51
2:V:94:ILE:HG21	2:V:119:LEU:HD22	1.93	0.51
2:V:218:SER:O	2:V:221:ALA:HB3	2.11	0.51
1:W:128:TYR:CD2	1:W:129:GLU:N	2.79	0.51
2:X:97:ARG:HG3	2:X:97:ARG:O	2.11	0.51
2:X:119:LEU:HD21	2:X:163:LEU:CD1	2.38	0.51
2:B:219:LYS:HD2	2:B:220:ALA:N	2.26	0.51
1:C:110:SER:HA	1:C:179:LEU:HD23	1.93	0.51
1:C:192:GLU:CB	2:D:188:VAL:HG13	2.40	0.51
1:C:274:THR:HG22	2:D:261:PRO:CB	2.28	0.51
2:D:130:VAL:HG12	2:D:146:VAL:HG13	1.92	0.51
1:E:246:PRO:HA	1:E:249:ILE:HG22	1.93	0.51
2:J:99:VAL:HG22	2:J:164:ILE:CG1	2.41	0.51
1:K:108:VAL:HG13	1:K:182:VAL:HG22	1.93	0.51
2:L:92:LEU:CD2	2:L:154:LEU:HD22	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:97:ARG:O	2:L:97:ARG:HG3	2.11	0.51
1:M:246:PRO:HA	1:M:249:ILE:HG22	1.93	0.51
2:N:181:GLU:O	2:N:184:GLU:HB3	2.10	0.51
2:P:97:ARG:HG3	2:P:97:ARG:O	2.11	0.51
2:P:196:ALA:CB	1:Q:220:GLU:CG	2.87	0.51
1:Q:108:VAL:HG13	1:Q:182:VAL:HG22	1.93	0.51
1:Q:221:GLN:CG	2:R:212:ILE:HG23	2.39	0.51
1:Q:242:LEU:HD13	2:R:238:LEU:CG	2.40	0.51
1:Q:260:ILE:CD1	2:R:248:ALA:HB3	2.38	0.51
1:S:108:VAL:HG13	1:S:182:VAL:HG22	1.93	0.51
2:T:97:ARG:O	2:T:97:ARG:HG3	2.11	0.51
1:U:246:PRO:HB3	1:W:294:LEU:CG	2.41	0.51
2:V:240:LYS:HG2	1:W:254:ILE:HD11	1.93	0.51
1:A:128:TYR:CD2	1:A:129:GLU:N	2.79	0.51
1:A:280:LEU:HD23	1:A:282:LEU:HD11	1.93	0.51
2:D:218:SER:O	2:D:221:ALA:HB3	2.11	0.51
2:D:225:ALA:HA	1:E:248:TYR:HB2	1.92	0.51
1:E:108:VAL:HG13	1:E:182:VAL:HG22	1.93	0.51
2:F:219:LYS:HD2	2:F:220:ALA:N	2.26	0.51
1:G:48:ARG:HG3	1:G:117:LEU:HD12	1.93	0.51
1:G:108:VAL:HG13	1:G:182:VAL:HG22	1.93	0.51
2:H:35:ARG:HA	2:H:52:GLU:HG3	1.92	0.51
2:H:218:SER:O	2:H:221:ALA:HB3	2.11	0.51
1:I:246:PRO:HA	1:I:249:ILE:HG22	1.93	0.51
1:K:128:TYR:CD2	1:K:129:GLU:N	2.79	0.51
2:L:99:VAL:HG22	2:L:164:ILE:CG1	2.41	0.51
1:M:83:ILE:HA	1:M:112:PRO:HD2	1.91	0.51
1:M:112:PRO:HA	1:M:176:SER:O	2.10	0.51
1:O:128:TYR:CD2	1:O:129:GLU:N	2.79	0.51
1:O:271:ILE:CG2	1:O:273:LEU:HD21	2.40	0.51
1:O:280:LEU:HD23	1:O:282:LEU:HD11	1.93	0.51
2:P:218:SER:O	2:P:221:ALA:HB3	2.11	0.51
1:Q:48:ARG:HG3	1:Q:117:LEU:HD12	1.93	0.51
1:Q:128:TYR:CD2	1:Q:129:GLU:N	2.79	0.51
2:R:94:ILE:HG21	2:R:119:LEU:HD22	1.93	0.51
2:T:228:LEU:HD23	2:T:231:ALA:HB3	1.93	0.51
2:V:173:LEU:O	2:V:174:THR:HG23	2.10	0.51
2:V:181:GLU:O	2:V:184:GLU:HB3	2.10	0.51
2:V:266:VAL:HG12	2:X:264:GLN:OE1	2.10	0.51
1:A:108:VAL:HG13	1:A:182:VAL:HG22	1.93	0.50
1:A:193:TYR:CE1	2:B:187:GLN:O	2.64	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:94:ILE:HG21	2:B:119:LEU:HD22	1.93	0.50
2:B:233:ASP:OD2	1:C:299:LYS:HG3	2.10	0.50
1:C:102:VAL:CG1	1:C:187:LEU:HD12	2.41	0.50
1:C:120:MET:HG2	1:C:124:LEU:HD12	1.93	0.50
1:C:246:PRO:HA	1:C:249:ILE:HG22	1.93	0.50
1:C:260:ILE:HD11	2:D:244:ALA:HB1	1.92	0.50
2:D:228:LEU:C	1:E:247:GLY:HA3	2.36	0.50
1:E:128:TYR:CD2	1:E:129:GLU:N	2.79	0.50
2:F:92:LEU:HD23	2:F:123:THR:HG23	1.91	0.50
1:G:80:ILE:O	1:G:126:LEU:HD22	2.12	0.50
1:G:120:MET:HG2	1:G:124:LEU:HD12	1.94	0.50
2:H:99:VAL:HG22	2:H:164:ILE:CG1	2.41	0.50
1:M:128:TYR:CD2	1:M:129:GLU:N	2.79	0.50
1:M:135:SER:CB	2:N:171:THR:OG1	2.54	0.50
1:M:175:PHE:CZ	2:N:167:ASP:HB2	2.46	0.50
2:N:224:ILE:HA	2:N:227:SER:HB3	1.94	0.50
1:O:50:ILE:CG1	1:O:79:ILE:HD12	2.41	0.50
1:O:108:VAL:HG13	1:O:182:VAL:HG22	1.93	0.50
2:T:219:LYS:HD2	2:T:220:ALA:N	2.26	0.50
1:A:50:ILE:CG1	1:A:79:ILE:HD12	2.41	0.50
1:E:48:ARG:HG3	1:E:117:LEU:CD1	2.42	0.50
2:F:99:VAL:HG22	2:F:164:ILE:CG1	2.41	0.50
1:G:209:ARG:HA	1:G:212:PHE:CZ	2.47	0.50
1:I:210:ALA:O	1:I:214:VAL:HG23	2.11	0.50
1:K:83:ILE:HA	1:K:112:PRO:HD2	1.91	0.50
1:K:280:LEU:HD23	1:K:282:LEU:HD11	1.93	0.50
1:M:210:ALA:O	1:M:214:VAL:HG23	2.11	0.50
2:P:85:LEU:HD12	1:Q:200:LYS:NZ	2.26	0.50
2:P:124:THR:HG21	1:Q:157:ARG:NH2	2.26	0.50
1:Q:164:ILE:HD12	1:Q:184:ILE:CD1	2.36	0.50
1:S:80:ILE:O	1:S:126:LEU:HD22	2.12	0.50
1:U:80:ILE:O	1:U:126:LEU:HD22	2.12	0.50
1:W:48:ARG:HG3	1:W:117:LEU:HD12	1.93	0.50
1:W:210:ALA:O	1:W:214:VAL:HG23	2.11	0.50
1:A:48:ARG:HG3	1:A:117:LEU:CD1	2.42	0.50
2:B:35:ARG:HA	2:B:52:GLU:HG3	1.92	0.50
1:C:48:ARG:HG3	1:C:117:LEU:CD1	2.42	0.50
2:D:224:ILE:HA	2:D:227:SER:HB3	1.94	0.50
1:I:48:ARG:HG3	1:I:117:LEU:HD12	1.93	0.50
2:J:45:VAL:HB	2:J:108:THR:HG22	1.94	0.50
1:K:220:GLU:O	1:K:223:GLN:HB3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:250:LYS:HG2	1:M:287:PHE:CE2	2.46	0.50
1:M:80:ILE:O	1:M:126:LEU:HD22	2.12	0.50
1:M:220:GLU:O	1:M:223:GLN:HB3	2.11	0.50
2:N:228:LEU:HD23	2:N:231:ALA:HB3	1.93	0.50
1:O:48:ARG:HG3	1:O:117:LEU:CD1	2.42	0.50
2:P:41:ARG:HG3	1:Q:47:HIS:HB2	1.93	0.50
2:R:228:LEU:HD23	2:R:231:ALA:HB3	1.93	0.50
1:S:128:TYR:CD2	1:S:129:GLU:N	2.79	0.50
1:S:209:ARG:HA	1:S:212:PHE:CZ	2.47	0.50
1:U:110:SER:HA	1:U:179:LEU:HD23	1.93	0.50
1:W:246:PRO:HA	1:W:249:ILE:HG22	1.93	0.50
1:A:41:PHE:O	1:A:43:VAL:HG23	2.12	0.50
1:A:102:VAL:CG1	1:A:187:LEU:HD12	2.41	0.50
1:A:246:PRO:HA	1:A:249:ILE:HG22	1.93	0.50
1:C:10:GLY:O	2:D:6:PHE:CD1	2.64	0.50
1:C:108:VAL:HG13	1:C:182:VAL:HG22	1.93	0.50
1:G:220:GLU:O	1:G:223:GLN:HB3	2.11	0.50
2:H:119:LEU:HD21	2:H:163:LEU:CD1	2.38	0.50
2:J:90:ILE:HD12	2:J:131:VAL:CG2	2.42	0.50
2:J:157:ARG:NH2	1:K:165:ARG:NH2	2.60	0.50
2:J:218:SER:O	2:J:221:ALA:HB3	2.11	0.50
2:L:94:ILE:HG21	2:L:119:LEU:HD22	1.93	0.50
2:L:189:ALA:CB	1:M:212:PHE:CE1	2.93	0.50
2:L:218:SER:O	2:L:221:ALA:HB3	2.11	0.50
1:M:108:VAL:HG13	1:M:182:VAL:HG22	1.93	0.50
1:Q:50:ILE:CG1	1:Q:79:ILE:HD12	2.41	0.50
1:Q:80:ILE:O	1:Q:126:LEU:HD22	2.12	0.50
2:R:140:ILE:CD1	2:R:173:LEU:HD21	2.42	0.50
1:S:135:SER:OG	2:T:93:ARG:NH1	2.44	0.50
1:S:253:LYS:HE3	2:T:241:LEU:HD11	1.93	0.50
1:S:268:GLN:HB3	2:T:255:ARG:HB3	1.94	0.50
2:T:99:VAL:HG22	2:T:164:ILE:CG1	2.41	0.50
1:U:210:ALA:O	1:U:214:VAL:HG23	2.11	0.50
2:V:99:VAL:HG22	2:V:164:ILE:CG1	2.41	0.50
2:V:219:LYS:HD2	2:V:220:ALA:N	2.26	0.50
1:W:80:ILE:O	1:W:126:LEU:HD22	2.12	0.50
1:W:120:MET:HG2	1:W:124:LEU:HD12	1.94	0.50
1:W:209:ARG:HA	1:W:212:PHE:CZ	2.47	0.50
2:X:218:SER:O	2:X:221:ALA:HB3	2.11	0.50
1:A:280:LEU:O	1:W:274:THR:CG2	2.60	0.50
2:B:140:ILE:CD1	2:B:173:LEU:HD21	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:228:LEU:HD23	2:D:231:ALA:HB3	1.93	0.50
1:E:102:VAL:CG1	1:E:187:LEU:HD12	2.41	0.50
1:E:110:SER:HA	1:E:179:LEU:HD23	1.93	0.50
1:G:210:ALA:O	1:G:214:VAL:HG23	2.11	0.50
1:G:274:THR:HG1	1:G:277:ASN:CG	2.20	0.50
2:H:219:LYS:HD2	2:H:220:ALA:N	2.26	0.50
2:J:125:GLU:OE2	1:K:165:ARG:NH2	2.45	0.50
1:K:50:ILE:CG1	1:K:79:ILE:HD12	2.41	0.50
1:K:110:SER:HA	1:K:179:LEU:HD23	1.93	0.50
1:K:221:GLN:CD	2:L:216:GLY:CA	2.84	0.50
2:L:28:TYR:CD1	2:L:30:VAL:HG23	2.47	0.50
1:O:80:ILE:O	1:O:126:LEU:HD22	2.12	0.50
1:O:110:SER:HA	1:O:179:LEU:HD23	1.93	0.50
2:P:90:ILE:HD12	2:P:131:VAL:CG2	2.42	0.50
2:P:94:ILE:HG21	2:P:119:LEU:HD22	1.93	0.50
1:Q:209:ARG:HA	1:Q:212:PHE:CZ	2.47	0.50
1:Q:280:LEU:HD23	1:Q:282:LEU:HD11	1.93	0.50
2:T:258:THR:CG2	2:T:259:TYR:H	2.22	0.50
2:V:229:ALA:CB	1:W:244:LYS:CB	2.86	0.50
1:A:96:SER:HA	1:A:146:ALA:HA	1.93	0.50
1:A:110:SER:HA	1:A:179:LEU:HD23	1.93	0.50
1:A:120:MET:HG2	1:A:124:LEU:HD12	1.94	0.50
2:B:219:LYS:O	2:B:222:GLU:HB2	2.12	0.50
1:C:96:SER:HA	1:C:146:ALA:HA	1.93	0.50
1:E:209:ARG:HA	1:E:212:PHE:CZ	2.47	0.50
2:F:218:SER:O	2:F:221:ALA:HB3	2.11	0.50
2:H:140:ILE:CD1	2:H:173:LEU:HD21	2.42	0.50
1:I:220:GLU:O	1:I:223:GLN:HB3	2.12	0.50
1:K:224:LYS:C	2:L:219:LYS:HE2	2.36	0.50
2:L:219:LYS:HD2	2:L:220:ALA:N	2.26	0.50
1:M:110:SER:HA	1:M:179:LEU:HD23	1.93	0.50
2:N:43:ARG:CG	2:N:43:ARG:HB3	2.24	0.50
2:P:28:TYR:CD1	2:P:30:VAL:HG23	2.47	0.50
1:Q:82:ASP:O	1:Q:128:TYR:OH	2.30	0.50
2:R:90:ILE:HD12	2:R:131:VAL:CG2	2.42	0.50
1:S:253:LYS:CE	2:T:241:LEU:HD11	2.41	0.50
1:S:260:ILE:HD11	2:T:244:ALA:C	2.34	0.50
2:T:90:ILE:HD12	2:T:131:VAL:CG2	2.42	0.50
2:T:130:VAL:HG12	2:T:146:VAL:HG13	1.92	0.50
2:T:186:LYS:HA	1:U:212:PHE:CD2	2.46	0.50
1:U:48:ARG:HG3	1:U:117:LEU:CD1	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:220:GLU:O	1:U:223:GLN:HB3	2.11	0.50
1:U:246:PRO:HA	1:U:249:ILE:HG22	1.93	0.50
2:X:219:LYS:HD2	2:X:220:ALA:N	2.26	0.50
2:X:219:LYS:O	2:X:222:GLU:HB2	2.12	0.50
2:X:224:ILE:HA	2:X:227:SER:HB3	1.94	0.50
2:B:218:SER:O	2:B:221:ALA:HB3	2.11	0.50
1:C:41:PHE:O	1:C:43:VAL:HG23	2.12	0.50
1:C:209:ARG:HA	1:C:212:PHE:CZ	2.47	0.50
1:C:220:GLU:O	1:C:223:GLN:HB3	2.11	0.50
2:D:45:VAL:HB	2:D:108:THR:HG22	1.94	0.50
2:D:92:LEU:CD2	2:D:154:LEU:HD22	2.40	0.50
2:D:99:VAL:HG22	2:D:164:ILE:CG1	2.41	0.50
1:E:50:ILE:CG1	1:E:79:ILE:HD12	2.41	0.50
2:F:97:ARG:HG3	2:F:97:ARG:O	2.11	0.50
2:F:228:LEU:HD23	2:F:231:ALA:HB3	1.93	0.50
1:G:41:PHE:CD1	1:G:78:PRO:HB3	2.47	0.50
2:H:28:TYR:CD1	2:H:30:VAL:HG23	2.47	0.50
2:H:90:ILE:HD12	2:H:131:VAL:CG2	2.42	0.50
2:H:219:LYS:O	2:H:222:GLU:HB2	2.12	0.50
2:J:45:VAL:HB	1:K:66:GLU:OE2	2.10	0.50
2:J:94:ILE:HG21	2:J:119:LEU:HD22	1.93	0.50
1:K:41:PHE:O	1:K:43:VAL:HG23	2.12	0.50
1:M:99:LEU:HB2	2:N:180:THR:O	2.12	0.50
1:M:121:TYR:O	2:N:33:GLY:HA2	2.12	0.50
1:O:82:ASP:O	1:O:128:TYR:OH	2.30	0.50
2:P:92:LEU:HD23	2:P:154:LEU:HD22	1.94	0.50
2:P:110:ILE:C	1:Q:85:ALA:CB	2.84	0.50
2:P:178:GLU:CB	1:Q:202:VAL:HG13	2.32	0.50
2:P:219:LYS:O	2:P:222:GLU:HB2	2.12	0.50
1:Q:120:MET:HG2	1:Q:124:LEU:HD12	1.93	0.50
1:S:48:ARG:HG3	1:S:117:LEU:HD12	1.93	0.50
1:S:50:ILE:CG1	1:S:79:ILE:HD12	2.41	0.50
1:S:96:SER:HA	1:S:146:ALA:HA	1.93	0.50
2:T:35:ARG:HA	2:T:52:GLU:HG3	1.92	0.50
2:T:94:ILE:HG21	2:T:119:LEU:HD22	1.93	0.50
2:T:221:ALA:CB	1:U:248:TYR:CB	2.90	0.50
1:U:48:ARG:HG3	1:U:117:LEU:HD12	1.93	0.50
2:V:45:VAL:HB	2:V:108:THR:HG22	1.94	0.50
1:A:80:ILE:O	1:A:126:LEU:HD22	2.12	0.50
1:A:82:ASP:O	1:A:128:TYR:OH	2.30	0.50
1:A:193:TYR:CD1	2:B:188:VAL:HA	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:209:ARG:HA	1:A:212:PHE:CZ	2.47	0.50
1:A:220:GLU:O	1:A:223:GLN:HB3	2.11	0.50
2:B:270:LEU:N	2:D:269:GLN:HB2	2.26	0.50
2:B:271:PRO:O	2:D:271:PRO:HB3	2.12	0.50
2:D:140:ILE:CD1	2:D:173:LEU:HD21	2.42	0.50
2:D:189:ALA:CB	1:E:212:PHE:CD2	2.94	0.50
1:E:41:PHE:O	1:E:43:VAL:HG23	2.12	0.50
1:E:210:ALA:O	1:E:214:VAL:HG23	2.11	0.50
1:G:246:PRO:HA	1:G:249:ILE:HG22	1.93	0.50
2:H:45:VAL:HB	2:H:108:THR:HG22	1.94	0.50
1:K:48:ARG:HG3	1:K:117:LEU:CD1	2.42	0.50
2:L:43:ARG:CG	2:L:43:ARG:HB3	2.24	0.50
1:M:48:ARG:HG3	1:M:117:LEU:CD1	2.42	0.50
2:N:90:ILE:HD12	2:N:131:VAL:CG2	2.42	0.50
2:N:99:VAL:HG22	2:N:164:ILE:CG1	2.41	0.50
2:N:259:TYR:C	2:N:260:LEU:HD12	2.37	0.50
1:O:220:GLU:O	1:O:223:GLN:HB3	2.11	0.50
2:P:99:VAL:HG22	2:P:164:ILE:CG1	2.41	0.50
2:P:117:ARG:HB3	1:Q:107:ARG:HG2	1.92	0.50
2:P:219:LYS:HD2	2:P:220:ALA:N	2.26	0.50
1:Q:6:LYS:HD3	2:R:6:PHE:CD1	2.47	0.50
1:Q:110:SER:HA	1:Q:179:LEU:HD23	1.93	0.50
2:R:45:VAL:HB	2:R:108:THR:HG22	1.94	0.50
2:R:218:SER:O	2:R:221:ALA:HB3	2.11	0.50
1:S:120:MET:HG2	1:S:124:LEU:HD12	1.94	0.50
2:T:45:VAL:HB	2:T:108:THR:HG22	1.94	0.50
2:T:140:ILE:CD1	2:T:173:LEU:HD21	2.42	0.50
1:U:209:ARG:HA	1:U:212:PHE:CZ	2.47	0.50
2:V:224:ILE:HA	2:V:227:SER:HB3	1.94	0.50
2:V:228:LEU:HD23	2:V:231:ALA:HB3	1.93	0.50
1:W:214:VAL:HG22	2:X:208:LYS:CG	2.38	0.50
2:X:90:ILE:HD12	2:X:131:VAL:CG2	2.42	0.50
2:X:228:LEU:HD23	2:X:231:ALA:HB3	1.93	0.50
1:A:48:ARG:HG3	1:A:117:LEU:HD12	1.93	0.50
1:A:193:TYR:HB2	2:B:188:VAL:HG22	1.94	0.50
2:B:90:ILE:HD12	2:B:131:VAL:CG2	2.42	0.50
2:D:251:LEU:HD23	1:E:265:ALA:HA	1.94	0.50
1:E:82:ASP:O	1:E:128:TYR:OH	2.30	0.50
2:F:90:ILE:HD12	2:F:131:VAL:CG2	2.42	0.50
1:G:41:PHE:CE2	1:G:69:HIS:O	2.65	0.50
1:G:96:SER:HA	1:G:146:ALA:HA	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:224:ILE:HA	2:H:227:SER:HB3	1.94	0.50
1:I:41:PHE:CE2	1:I:69:HIS:O	2.65	0.50
1:I:82:ASP:O	1:I:128:TYR:OH	2.30	0.50
1:I:112:PRO:HD3	1:I:128:TYR:CE2	2.45	0.50
2:J:219:LYS:HD2	2:J:220:ALA:N	2.26	0.50
1:K:80:ILE:O	1:K:126:LEU:HD22	2.12	0.50
1:K:96:SER:HA	1:K:146:ALA:HA	1.93	0.50
2:L:140:ILE:CD1	2:L:173:LEU:HD21	2.42	0.50
2:L:219:LYS:O	2:L:222:GLU:HB2	2.12	0.50
1:M:41:PHE:CD1	1:M:78:PRO:HB3	2.47	0.50
1:M:82:ASP:O	1:M:128:TYR:OH	2.30	0.50
2:N:219:LYS:O	2:N:222:GLU:HB2	2.12	0.50
1:O:41:PHE:CD1	1:O:78:PRO:HB3	2.47	0.50
1:O:274:THR:HG1	1:O:277:ASN:CG	2.20	0.50
2:P:41:ARG:NH2	1:Q:44:GLU:CD	2.70	0.50
2:P:124:THR:CG2	1:Q:157:ARG:CZ	2.90	0.50
2:P:140:ILE:CD1	2:P:173:LEU:HD21	2.42	0.50
1:Q:249:ILE:HD11	2:R:241:LEU:CD1	2.39	0.50
2:R:237:GLU:OE1	1:S:294:LEU:HD22	2.12	0.50
1:S:48:ARG:HG3	1:S:117:LEU:CD1	2.42	0.50
1:S:271:ILE:HA	2:T:258:THR:HA	1.94	0.50
1:U:250:LYS:HE2	1:W:291:SER:CB	2.41	0.50
2:V:259:TYR:OH	1:W:277:ASN:N	2.45	0.50
1:W:110:SER:HA	1:W:179:LEU:HD23	1.93	0.50
1:W:220:GLU:O	1:W:223:GLN:HB3	2.12	0.50
1:A:41:PHE:CE2	1:A:69:HIS:O	2.65	0.49
1:A:197:VAL:CG2	2:B:191:GLN:HB3	2.42	0.49
1:C:48:ARG:HG3	1:C:117:LEU:HD12	1.93	0.49
1:C:54:ARG:NH2	2:D:52:GLU:CB	2.75	0.49
2:D:28:TYR:CD1	2:D:30:VAL:HG23	2.47	0.49
1:E:80:ILE:O	1:E:126:LEU:HD22	2.12	0.49
2:F:92:LEU:HD23	2:F:154:LEU:HD22	1.94	0.49
2:H:268:LEU:O	2:J:267:LEU:HB3	2.13	0.49
1:K:246:PRO:HA	1:K:249:ILE:HG22	1.93	0.49
2:N:28:TYR:CD1	2:N:30:VAL:HG23	2.47	0.49
2:N:94:ILE:HG21	2:N:119:LEU:HD22	1.93	0.49
2:N:140:ILE:CD1	2:N:173:LEU:HD21	2.42	0.49
1:O:41:PHE:CE2	1:O:69:HIS:O	2.65	0.49
1:Q:41:PHE:CD1	1:Q:78:PRO:HB3	2.47	0.49
1:Q:41:PHE:O	1:Q:43:VAL:HG23	2.12	0.49
1:Q:135:SER:OG	2:R:93:ARG:HD2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:217:ALA:CB	2:R:208:LYS:HZ2	2.25	0.49
1:Q:246:PRO:HA	1:Q:249:ILE:HG22	1.93	0.49
2:T:221:ALA:HB2	1:U:248:TYR:CG	2.46	0.49
1:U:41:PHE:O	1:U:43:VAL:HG23	2.12	0.49
2:V:90:ILE:HD12	2:V:131:VAL:CG2	2.42	0.49
2:V:92:LEU:HD23	2:V:154:LEU:HD22	1.94	0.49
1:W:48:ARG:NH1	1:W:66:GLU:HG3	2.27	0.49
1:W:108:VAL:HG13	1:W:182:VAL:HG22	1.93	0.49
2:X:140:ILE:CD1	2:X:173:LEU:HD21	2.42	0.49
2:B:99:VAL:HG22	2:B:164:ILE:CG1	2.41	0.49
2:B:267:LEU:CD2	2:D:267:LEU:HD22	2.42	0.49
1:C:48:ARG:NH1	1:C:66:GLU:HG3	2.27	0.49
1:C:82:ASP:O	1:C:128:TYR:OH	2.30	0.49
1:E:220:GLU:O	1:E:223:GLN:HB3	2.11	0.49
1:G:128:TYR:CD2	1:G:129:GLU:N	2.79	0.49
2:J:225:ALA:HA	1:K:248:TYR:N	2.28	0.49
2:L:92:LEU:HD23	2:L:154:LEU:HD22	1.94	0.49
2:L:228:LEU:HD23	2:L:231:ALA:HB3	1.93	0.49
1:M:41:PHE:O	1:M:43:VAL:HG23	2.12	0.49
2:P:110:ILE:O	1:Q:109:LEU:CD1	2.46	0.49
1:Q:41:PHE:CE2	1:Q:69:HIS:O	2.65	0.49
1:Q:48:ARG:HG3	1:Q:117:LEU:CD1	2.42	0.49
2:R:28:TYR:CD1	2:R:30:VAL:HG23	2.47	0.49
1:S:41:PHE:O	1:S:43:VAL:HG23	2.12	0.49
1:S:48:ARG:NH1	1:S:66:GLU:HG3	2.27	0.49
1:U:41:PHE:CE2	1:U:69:HIS:O	2.65	0.49
2:X:28:TYR:CD1	2:X:30:VAL:HG23	2.47	0.49
2:X:43:ARG:CG	2:X:43:ARG:HB3	2.24	0.49
2:X:92:LEU:HD23	2:X:154:LEU:HD22	1.94	0.49
2:B:228:LEU:HD23	2:B:231:ALA:HB3	1.93	0.49
1:C:272:TYR:HB2	2:D:260:LEU:HG	1.94	0.49
2:D:92:LEU:HD23	2:D:154:LEU:HD22	1.94	0.49
2:D:94:ILE:HG21	2:D:119:LEU:HD22	1.93	0.49
2:D:219:LYS:O	2:D:222:GLU:HB2	2.12	0.49
1:G:41:PHE:O	1:G:43:VAL:HG23	2.12	0.49
1:G:206:GLU:OE1	2:H:202:LYS:CE	2.61	0.49
2:H:85:LEU:HD22	1:I:154:ILE:CG2	2.42	0.49
1:I:41:PHE:CD1	1:I:78:PRO:HB3	2.47	0.49
1:I:48:ARG:HG3	1:I:117:LEU:CD1	2.42	0.49
1:I:80:ILE:O	1:I:126:LEU:HD22	2.12	0.49
1:I:110:SER:HA	1:I:179:LEU:HD23	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:209:ARG:HA	1:I:212:PHE:CZ	2.47	0.49
2:J:28:TYR:CD1	2:J:30:VAL:HG23	2.47	0.49
1:K:46:GLY:C	1:K:83:ILE:HG12	2.38	0.49
1:M:50:ILE:CG1	1:M:79:ILE:HD12	2.41	0.49
2:N:92:LEU:HD23	2:N:154:LEU:HD22	1.94	0.49
2:N:219:LYS:HD2	2:N:220:ALA:N	2.26	0.49
2:R:219:LYS:HD2	2:R:220:ALA:N	2.26	0.49
1:S:280:LEU:HD23	1:S:282:LEU:HD11	1.93	0.49
2:T:259:TYR:C	2:T:260:LEU:HD12	2.37	0.49
1:U:128:TYR:CD2	1:U:129:GLU:N	2.79	0.49
1:U:144:VAL:HG11	1:U:160:VAL:O	2.13	0.49
1:W:41:PHE:CE2	1:W:69:HIS:O	2.65	0.49
1:A:144:VAL:HG11	1:A:160:VAL:O	2.13	0.49
2:B:185:ALA:CB	1:C:212:PHE:CE2	2.95	0.49
2:B:267:LEU:HD21	2:D:267:LEU:HD13	1.94	0.49
2:B:268:LEU:CD1	2:D:260:LEU:HD23	2.42	0.49
1:C:41:PHE:CE2	1:C:69:HIS:O	2.65	0.49
2:D:90:ILE:HD12	2:D:131:VAL:CG2	2.42	0.49
1:E:144:VAL:HG11	1:E:160:VAL:O	2.13	0.49
2:F:94:ILE:HG21	2:F:119:LEU:HD22	1.93	0.49
1:G:48:ARG:HG3	1:G:117:LEU:CD1	2.42	0.49
1:G:275:ALA:HB3	1:I:284:ASP:CB	2.42	0.49
2:J:108:THR:CG2	1:K:66:GLU:OE2	2.60	0.49
1:S:242:LEU:HD13	2:T:238:LEU:CD2	2.39	0.49
2:T:90:ILE:CB	2:T:127:LEU:HD21	2.43	0.49
2:T:92:LEU:HD23	2:T:154:LEU:HD22	1.94	0.49
1:U:46:GLY:C	1:U:83:ILE:HG12	2.38	0.49
1:U:236:LYS:CE	2:V:227:SER:OG	2.60	0.49
1:W:41:PHE:CD1	1:W:78:PRO:HB3	2.47	0.49
1:W:48:ARG:HG3	1:W:117:LEU:CD1	2.42	0.49
1:C:64:LEU:HD13	1:C:69:HIS:CB	2.43	0.49
1:C:80:ILE:O	1:C:126:LEU:HD22	2.12	0.49
1:C:144:VAL:HG11	1:C:160:VAL:O	2.13	0.49
1:C:299:LYS:OXT	1:E:288:THR:CG2	2.53	0.49
2:D:247:ILE:HG23	1:E:261:SER:CB	2.41	0.49
2:F:219:LYS:O	2:F:222:GLU:HB2	2.12	0.49
1:G:64:LEU:HD13	1:G:69:HIS:CB	2.43	0.49
1:G:82:ASP:O	1:G:128:TYR:OH	2.30	0.49
2:H:72:ARG:HB2	2:H:96:PHE:CZ	2.48	0.49
1:I:120:MET:HG2	1:I:124:LEU:HD12	1.94	0.49
1:K:120:MET:HG2	1:K:124:LEU:HD12	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:90:ILE:HD12	2:L:131:VAL:CG2	2.42	0.49
2:L:224:ILE:HA	2:L:227:SER:HB3	1.94	0.49
1:M:131:ARG:HG2	2:N:73:PRO:CD	2.41	0.49
1:O:246:PRO:HA	1:O:249:ILE:HG22	1.93	0.49
2:P:90:ILE:CB	2:P:127:LEU:HD21	2.43	0.49
2:R:99:VAL:HG22	2:R:164:ILE:CG1	2.41	0.49
2:R:224:ILE:HA	2:R:227:SER:HB3	1.94	0.49
1:S:144:VAL:HG11	1:S:160:VAL:O	2.13	0.49
1:S:220:GLU:O	1:S:223:GLN:HB3	2.12	0.49
2:T:28:TYR:CD1	2:T:30:VAL:HG23	2.47	0.49
2:T:224:ILE:HA	2:T:227:SER:HB3	1.94	0.49
1:U:50:ILE:CG1	1:U:79:ILE:HD12	2.41	0.49
1:U:82:ASP:O	1:U:128:TYR:OH	2.30	0.49
2:V:28:TYR:CD1	2:V:30:VAL:HG23	2.47	0.49
2:V:140:ILE:CD1	2:V:173:LEU:HD21	2.42	0.49
1:W:46:GLY:C	1:W:83:ILE:HG12	2.38	0.49
1:W:50:ILE:CG1	1:W:79:ILE:HD12	2.41	0.49
2:X:72:ARG:HB2	2:X:96:PHE:CZ	2.48	0.49
1:A:48:ARG:NH1	1:A:66:GLU:HG3	2.27	0.49
1:E:41:PHE:CE2	1:E:69:HIS:O	2.65	0.49
1:E:46:GLY:C	1:E:83:ILE:HG12	2.38	0.49
1:G:50:ILE:CG1	1:G:79:ILE:HD12	2.41	0.49
2:H:259:TYR:C	2:H:260:LEU:HD12	2.37	0.49
1:I:144:VAL:HG11	1:I:160:VAL:O	2.13	0.49
2:J:219:LYS:O	2:J:222:GLU:HB2	2.12	0.49
1:K:41:PHE:CE2	1:K:69:HIS:O	2.65	0.49
1:K:246:PRO:HG3	1:M:292:ASP:OD1	2.12	0.49
1:M:209:ARG:HA	1:M:212:PHE:CZ	2.47	0.49
1:O:144:VAL:HG11	1:O:160:VAL:O	2.13	0.49
1:O:209:ARG:HA	1:O:212:PHE:CZ	2.47	0.49
2:P:45:VAL:HB	2:P:108:THR:HG22	1.94	0.49
2:P:259:TYR:CD1	1:Q:278:LEU:HB2	2.46	0.49
1:Q:46:GLY:C	1:Q:83:ILE:HG12	2.38	0.49
1:S:41:PHE:CD1	1:S:78:PRO:HB3	2.47	0.49
1:S:82:ASP:O	1:S:128:TYR:OH	2.30	0.49
2:T:218:SER:O	2:T:221:ALA:HB3	2.11	0.49
2:V:207:LYS:HG3	1:W:227:GLN:HG2	1.93	0.49
2:V:219:LYS:O	2:V:222:GLU:HB2	2.12	0.49
2:V:259:TYR:HA	1:W:273:LEU:CA	2.43	0.49
1:W:144:VAL:HG11	1:W:160:VAL:O	2.13	0.49
1:A:294:LEU:CB	1:W:246:PRO:HB3	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:224:ILE:HA	2:B:227:SER:HB3	1.94	0.49
1:C:41:PHE:CD1	1:C:78:PRO:HB3	2.47	0.49
2:F:69:CYS:SG	2:F:103:LEU:HD11	2.53	0.49
1:G:46:GLY:C	1:G:83:ILE:HG12	2.38	0.49
1:G:289:ARG:NH1	1:I:285:GLU:CG	2.75	0.49
2:H:94:ILE:HG21	2:H:119:LEU:HD22	1.93	0.49
1:I:48:ARG:NH1	1:I:66:GLU:HG3	2.27	0.49
1:I:50:ILE:CG1	1:I:79:ILE:HD12	2.41	0.49
2:J:140:ILE:CD1	2:J:173:LEU:HD21	2.42	0.49
2:L:72:ARG:HB2	2:L:96:PHE:CZ	2.48	0.49
1:M:120:MET:HG2	1:M:124:LEU:HD12	1.93	0.49
1:M:200:LYS:HA	2:N:195:ARG:HA	1.95	0.49
1:M:204:GLN:HA	2:N:198:PHE:HB3	1.93	0.49
1:M:272:TYR:O	2:N:259:TYR:CD2	2.66	0.49
1:O:46:GLY:C	1:O:83:ILE:HG12	2.38	0.49
1:O:48:ARG:NH1	1:O:66:GLU:HG3	2.27	0.49
2:P:69:CYS:SG	2:P:103:LEU:HD11	2.53	0.49
2:P:224:ILE:HA	2:P:227:SER:HB3	1.94	0.49
1:Q:144:VAL:HG11	1:Q:160:VAL:O	2.13	0.49
1:Q:220:GLU:O	1:Q:223:GLN:HB3	2.12	0.49
1:Q:253:LYS:HZ2	2:R:241:LEU:CD1	2.25	0.49
2:R:72:ARG:HB2	2:R:96:PHE:CZ	2.48	0.49
1:S:246:PRO:HA	1:S:249:ILE:HG22	1.93	0.49
2:T:219:LYS:O	2:T:222:GLU:HB2	2.12	0.49
1:U:41:PHE:CD1	1:U:78:PRO:HB3	2.47	0.49
1:U:120:MET:HG2	1:U:124:LEU:HD12	1.94	0.49
1:U:200:LYS:HD2	2:V:194:GLU:OE1	2.12	0.49
2:V:69:CYS:SG	2:V:103:LEU:HD11	2.53	0.49
2:V:140:ILE:HD11	2:V:173:LEU:CD2	2.43	0.49
1:W:82:ASP:O	1:W:128:TYR:OH	2.30	0.49
2:X:90:ILE:CB	2:X:127:LEU:HD21	2.43	0.49
2:B:268:LEU:CB	2:D:267:LEU:O	2.59	0.49
1:C:46:GLY:C	1:C:83:ILE:HG12	2.38	0.49
1:C:50:ILE:CG1	1:C:79:ILE:HD12	2.41	0.49
1:E:41:PHE:CD1	1:E:78:PRO:HB3	2.47	0.49
1:E:120:MET:HG2	1:E:124:LEU:HD12	1.94	0.49
2:F:28:TYR:CD1	2:F:30:VAL:HG23	2.47	0.49
2:F:43:ARG:CB	2:F:43:ARG:HG3	2.22	0.49
2:F:45:VAL:HB	2:F:108:THR:HG22	1.94	0.49
1:G:110:SER:HA	1:G:179:LEU:HD23	1.93	0.49
1:G:144:VAL:HG11	1:G:160:VAL:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:275:ALA:HB3	1:I:284:ASP:CG	2.38	0.49
2:H:92:LEU:HD23	2:H:154:LEU:HD22	1.94	0.49
1:I:108:VAL:HG13	1:I:182:VAL:HG22	1.93	0.49
2:J:72:ARG:HB2	2:J:96:PHE:CZ	2.48	0.49
1:K:225:ILE:HA	2:L:219:LYS:HD3	1.94	0.49
2:L:140:ILE:HD11	2:L:173:LEU:CD2	2.43	0.49
1:M:46:GLY:C	1:M:83:ILE:HG12	2.38	0.49
2:N:268:LEU:HD12	2:P:260:LEU:HG	1.93	0.49
2:N:269:GLN:HG3	2:P:269:GLN:CB	2.42	0.49
1:O:41:PHE:O	1:O:43:VAL:HG23	2.12	0.49
1:O:64:LEU:HD13	1:O:69:HIS:CB	2.43	0.49
1:Q:256:ALA:N	2:R:245:GLU:OE2	2.46	0.49
2:R:69:CYS:SG	2:R:103:LEU:HD11	2.53	0.49
1:S:274:THR:HG22	2:T:260:LEU:C	2.37	0.49
2:T:43:ARG:HA	1:U:66:GLU:HB3	1.93	0.49
2:T:69:CYS:SG	2:T:103:LEU:HD11	2.53	0.49
1:U:60:GLN:HA	1:U:118:PRO:HB2	1.95	0.49
2:V:259:TYR:C	2:V:260:LEU:HD12	2.37	0.49
2:V:270:LEU:CD1	2:X:260:LEU:HD11	2.43	0.49
1:W:41:PHE:O	1:W:43:VAL:HG23	2.12	0.49
2:X:69:CYS:SG	2:X:103:LEU:HD11	2.53	0.49
2:B:140:ILE:HD11	2:B:173:LEU:CD2	2.43	0.49
2:F:224:ILE:HA	2:F:227:SER:HB3	1.94	0.49
2:H:78:VAL:HG13	2:H:124:THR:HG23	1.95	0.49
2:J:42:PHE:HD1	1:K:68:LEU:CD1	2.24	0.49
1:K:41:PHE:CD1	1:K:78:PRO:HB3	2.47	0.49
1:K:48:ARG:NH1	1:K:66:GLU:HG3	2.27	0.49
1:K:82:ASP:O	1:K:128:TYR:OH	2.30	0.49
1:K:209:ARG:HA	1:K:212:PHE:CZ	2.47	0.49
1:M:60:GLN:HA	1:M:118:PRO:HB2	1.95	0.49
1:O:120:MET:HG2	1:O:124:LEU:HD12	1.94	0.49
2:P:78:VAL:HG13	2:P:124:THR:HG23	1.95	0.49
1:U:260:ILE:HG21	1:W:278:LEU:HD21	1.92	0.49
2:B:45:VAL:HB	2:B:108:THR:HG22	1.94	0.49
2:B:92:LEU:HD23	2:B:154:LEU:HD22	1.94	0.49
2:D:72:ARG:HB2	2:D:96:PHE:CZ	2.48	0.49
2:D:219:LYS:HD2	2:D:220:ALA:N	2.26	0.49
2:F:140:ILE:CD1	2:F:173:LEU:HD21	2.42	0.49
2:H:69:CYS:SG	2:H:103:LEU:HD11	2.53	0.49
2:H:228:LEU:HD23	2:H:231:ALA:HB3	1.93	0.49
1:I:225:ILE:HA	2:J:219:LYS:HD3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:268:LEU:O	2:L:269:GLN:HB2	2.12	0.49
2:N:140:ILE:HD11	2:N:173:LEU:CD2	2.43	0.49
1:O:256:ALA:HB2	2:P:245:GLU:OE2	2.12	0.49
1:Q:253:LYS:HE2	1:S:291:SER:OG	2.13	0.49
2:R:259:TYR:C	2:R:260:LEU:HD12	2.37	0.49
1:U:52:PHE:HB2	1:U:79:ILE:HD11	1.95	0.49
2:X:45:VAL:HB	2:X:108:THR:HG22	1.94	0.49
2:X:99:VAL:HG22	2:X:164:ILE:CG1	2.41	0.49
1:A:102:VAL:HG22	1:A:189:PHE:CD2	2.48	0.48
1:A:197:VAL:HG22	2:B:191:GLN:CG	2.43	0.48
2:D:200:VAL:HG21	1:E:219:GLN:HE21	1.77	0.48
1:E:277:ASN:HD22	1:G:282:LEU:HB2	1.78	0.48
1:I:41:PHE:O	1:I:43:VAL:HG23	2.12	0.48
1:I:221:GLN:OE1	2:J:216:GLY:CA	2.61	0.48
1:I:239:GLY:C	2:J:231:ALA:HB1	2.35	0.48
1:I:274:THR:HG1	1:I:277:ASN:CG	2.19	0.48
2:L:69:CYS:SG	2:L:103:LEU:HD11	2.53	0.48
1:M:41:PHE:CE2	1:M:69:HIS:O	2.65	0.48
2:P:85:LEU:CB	1:Q:197:VAL:HG11	2.31	0.48
2:R:90:ILE:CB	2:R:127:LEU:HD21	2.43	0.48
2:R:92:LEU:HD23	2:R:154:LEU:HD22	1.94	0.48
2:R:219:LYS:O	2:R:222:GLU:HB2	2.12	0.48
1:U:204:GLN:HB2	2:V:198:PHE:CG	2.48	0.48
2:V:258:THR:O	1:W:273:LEU:HG	2.13	0.48
2:B:269:GLN:NE2	2:D:269:GLN:NE2	2.61	0.48
2:B:270:LEU:CG	2:D:269:GLN:O	2.60	0.48
1:E:48:ARG:NH1	1:E:66:GLU:HG3	2.27	0.48
2:F:72:ARG:HB2	2:F:96:PHE:CZ	2.48	0.48
1:G:102:VAL:HG22	1:G:189:PHE:CD2	2.48	0.48
2:J:140:ILE:HD11	2:J:173:LEU:CD2	2.43	0.48
1:K:253:LYS:C	1:M:279:VAL:HG13	2.38	0.48
2:L:211:ILE:HG12	1:M:230:GLY:CA	2.43	0.48
1:M:48:ARG:NH1	1:M:66:GLU:HG3	2.27	0.48
1:M:123:ARG:HG3	2:N:97:ARG:HD3	1.95	0.48
1:O:60:GLN:HA	1:O:118:PRO:HB2	1.95	0.48
1:O:102:VAL:HG22	1:O:189:PHE:CD2	2.48	0.48
1:Q:48:ARG:NH1	1:Q:66:GLU:HG3	2.27	0.48
1:S:41:PHE:CE2	1:S:69:HIS:O	2.65	0.48
1:S:102:VAL:HG22	1:S:189:PHE:CD2	2.48	0.48
2:T:78:VAL:HG13	2:T:124:THR:HG23	1.95	0.48
1:U:64:LEU:HD13	1:U:69:HIS:CB	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:200:LYS:O	2:V:198:PHE:CD2	2.66	0.48
2:V:78:VAL:HG13	2:V:124:THR:HG23	1.95	0.48
2:X:43:ARG:CB	2:X:43:ARG:HG3	2.22	0.48
1:A:45:GLY:O	2:X:108:THR:HA	2.13	0.48
1:A:196:ALA:HB2	2:B:192:GLU:OE1	2.14	0.48
1:C:60:GLN:HA	1:C:118:PRO:HB2	1.95	0.48
2:F:90:ILE:CB	2:F:127:LEU:HD21	2.43	0.48
1:G:52:PHE:HB2	1:G:79:ILE:HD11	1.95	0.48
1:I:64:LEU:HD13	1:I:69:HIS:CB	2.43	0.48
1:K:144:VAL:HG11	1:K:160:VAL:O	2.13	0.48
2:L:259:TYR:C	2:L:260:LEU:HD12	2.37	0.48
2:N:45:VAL:HB	2:N:108:THR:HG22	1.94	0.48
2:N:69:CYS:SG	2:N:103:LEU:HD11	2.53	0.48
1:Q:256:ALA:HA	2:R:245:GLU:HG3	1.95	0.48
1:U:48:ARG:NH1	1:U:66:GLU:HG3	2.27	0.48
1:U:102:VAL:HG22	1:U:189:PHE:CD2	2.48	0.48
2:V:72:ARG:HB2	2:V:96:PHE:CZ	2.48	0.48
1:A:41:PHE:CD1	1:A:78:PRO:HB3	2.47	0.48
2:D:43:ARG:CB	2:D:43:ARG:HG3	2.22	0.48
2:D:69:CYS:SG	2:D:103:LEU:HD11	2.53	0.48
1:E:62:THR:CG2	1:E:64:LEU:HD21	2.44	0.48
1:G:139:GLU:HG3	2:H:143:ARG:NH2	2.29	0.48
1:I:52:PHE:HB2	1:I:79:ILE:HD11	1.95	0.48
1:I:60:GLN:HA	1:I:118:PRO:HB2	1.95	0.48
2:J:43:ARG:CB	1:K:67:GLY:C	2.85	0.48
2:L:45:VAL:HB	2:L:108:THR:HG22	1.94	0.48
1:M:52:PHE:HB2	1:M:79:ILE:HD11	1.95	0.48
1:M:64:LEU:HD13	1:M:69:HIS:CB	2.43	0.48
2:N:78:VAL:HG13	2:N:124:THR:HG23	1.95	0.48
2:P:185:ALA:O	1:Q:212:PHE:CE2	2.66	0.48
2:R:217:ASP:OD1	1:S:248:TYR:CZ	2.67	0.48
2:R:259:TYR:HE2	1:S:281:ASN:CA	2.26	0.48
1:S:46:GLY:C	1:S:83:ILE:HG12	2.38	0.48
1:U:110:SER:HB2	1:U:177:LEU:HD22	1.96	0.48
1:A:40:VAL:HG11	2:X:42:PHE:CE1	2.48	0.48
1:A:46:GLY:C	1:A:83:ILE:HG12	2.38	0.48
1:A:64:LEU:HD13	1:A:69:HIS:CB	2.43	0.48
2:B:69:CYS:SG	2:B:103:LEU:HD11	2.53	0.48
2:D:239:ARG:NE	1:E:258:GLN:NE2	2.61	0.48
1:E:164:ILE:HD12	1:E:184:ILE:CD1	2.36	0.48
1:I:46:GLY:C	1:I:83:ILE:HG12	2.38	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:144:VAL:HG11	1:M:160:VAL:O	2.13	0.48
1:M:274:THR:HG21	1:O:280:LEU:O	2.13	0.48
2:P:272:GLN:HG2	2:R:272:GLN:CD	2.38	0.48
1:Q:60:GLN:HA	1:Q:118:PRO:HB2	1.95	0.48
2:R:78:VAL:HG13	2:R:124:THR:HG23	1.95	0.48
1:S:52:PHE:HB2	1:S:79:ILE:HD11	1.95	0.48
1:S:64:LEU:HD13	1:S:69:HIS:CB	2.43	0.48
2:V:239:ARG:HG3	1:W:251:LEU:HD13	1.91	0.48
1:W:64:LEU:HD13	1:W:69:HIS:CB	2.43	0.48
2:B:193:ALA:HA	1:C:219:GLN:OE1	2.13	0.48
2:D:90:ILE:CB	2:D:127:LEU:HD21	2.43	0.48
1:E:64:LEU:HD13	1:E:69:HIS:CB	2.43	0.48
2:F:259:TYR:C	2:F:260:LEU:HD12	2.37	0.48
2:H:140:ILE:HD11	2:H:173:LEU:CD2	2.43	0.48
1:I:83:ILE:HG21	1:I:117:LEU:HD11	1.96	0.48
1:I:260:ILE:HG12	2:J:244:ALA:CB	2.44	0.48
2:J:225:ALA:HA	1:K:248:TYR:H	1.77	0.48
1:K:236:LYS:HE2	2:L:227:SER:OG	2.12	0.48
1:M:102:VAL:HG22	1:M:189:PHE:CD2	2.48	0.48
2:N:267:LEU:CD1	2:P:267:LEU:HB3	2.44	0.48
1:O:83:ILE:HG21	1:O:117:LEU:HD11	1.96	0.48
1:Q:102:VAL:HG22	1:Q:189:PHE:CD2	2.48	0.48
1:Q:249:ILE:HD12	1:S:294:LEU:HD21	1.92	0.48
2:X:140:ILE:HD11	2:X:173:LEU:CD2	2.43	0.48
2:B:72:ARG:HB2	2:B:96:PHE:CZ	2.48	0.48
1:C:6:LYS:HG2	2:D:10:GLY:C	2.38	0.48
2:J:42:PHE:O	1:K:68:LEU:CA	2.49	0.48
2:J:214:ALA:HB1	2:L:242:GLU:OE2	2.13	0.48
1:K:64:LEU:HD13	1:K:69:HIS:CB	2.43	0.48
2:L:236:ILE:HG23	1:M:250:LYS:HD3	1.96	0.48
1:M:123:ARG:HH21	2:N:166:ASP:HB3	1.78	0.48
2:P:43:ARG:CG	2:P:43:ARG:HB2	2.24	0.48
2:P:72:ARG:HB2	2:P:96:PHE:CZ	2.48	0.48
1:S:60:GLN:HA	1:S:118:PRO:HB2	1.95	0.48
1:S:110:SER:HB2	1:S:177:LEU:HD22	1.96	0.48
1:U:83:ILE:HG21	1:U:117:LEU:HD11	1.96	0.48
1:A:52:PHE:HB2	1:A:79:ILE:HD11	1.95	0.48
1:A:204:GLN:HB2	2:B:198:PHE:CD2	2.49	0.48
1:C:245:ASN:OD1	1:C:246:PRO:CD	2.62	0.48
1:E:110:SER:HB2	1:E:177:LEU:HD22	1.96	0.48
2:J:69:CYS:SG	2:J:103:LEU:HD11	2.53	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:90:ILE:CB	2:J:127:LEU:HD21	2.43	0.48
2:J:224:ILE:HA	2:J:227:SER:HB3	1.94	0.48
1:M:83:ILE:HG21	1:M:117:LEU:HD11	1.96	0.48
2:P:121:SER:OG	1:Q:183:ALA:CB	2.62	0.48
2:P:262:ALA:CB	1:Q:275:ALA:CB	2.92	0.48
2:R:140:ILE:HD11	2:R:173:LEU:CD2	2.43	0.48
2:T:72:ARG:HB2	2:T:96:PHE:CZ	2.48	0.48
1:U:6:LYS:NZ	2:V:10:GLY:HA2	2.28	0.48
2:V:256:ASN:HB2	1:W:270:ARG:CG	2.44	0.48
1:A:100:GLN:HB2	2:B:184:GLU:HG3	1.95	0.48
1:A:197:VAL:CG2	2:B:191:GLN:CB	2.92	0.48
2:B:269:GLN:CG	2:D:269:GLN:CD	2.79	0.48
1:C:164:ILE:HD12	1:C:184:ILE:CD1	2.36	0.48
2:F:140:ILE:HD11	2:F:173:LEU:CD2	2.43	0.48
1:G:48:ARG:NH1	1:G:66:GLU:HG3	2.27	0.48
1:G:54:ARG:HD3	2:H:54:THR:OG1	2.14	0.48
1:G:245:ASN:OD1	1:G:246:PRO:CD	2.62	0.48
1:G:246:PRO:HB3	1:I:294:LEU:HG	1.95	0.48
2:J:224:ILE:HB	1:K:248:TYR:CD1	2.48	0.48
1:K:52:PHE:HB2	1:K:79:ILE:HD11	1.95	0.48
1:K:102:VAL:HG22	1:K:189:PHE:CD2	2.48	0.48
1:K:245:ASN:OD1	1:K:246:PRO:CD	2.62	0.48
1:M:131:ARG:HH12	2:N:70:ARG:HD3	1.79	0.48
2:N:72:ARG:HB2	2:N:96:PHE:CZ	2.48	0.48
2:P:42:PHE:C	1:Q:67:GLY:O	2.57	0.48
2:P:108:THR:OG1	1:Q:111:ARG:CD	2.61	0.48
1:Q:64:LEU:HD13	1:Q:69:HIS:CB	2.43	0.48
2:T:270:LEU:HD13	1:U:272:TYR:CE2	2.49	0.48
1:W:62:THR:CG2	1:W:64:LEU:HD21	2.44	0.48
2:B:54:THR:O	2:B:54:THR:HG22	2.14	0.48
2:B:240:LYS:HZ1	1:E:282:LEU:HD22	1.79	0.48
1:C:102:VAL:HG22	1:C:189:PHE:CD2	2.48	0.48
2:D:140:ILE:HD11	2:D:173:LEU:CD2	2.43	0.48
1:E:52:PHE:HB2	1:E:79:ILE:HD11	1.95	0.48
1:E:83:ILE:HG21	1:E:117:LEU:HD11	1.96	0.48
2:F:78:VAL:HG13	2:F:124:THR:HG23	1.95	0.48
2:J:259:TYR:C	2:J:260:LEU:HD12	2.37	0.48
1:K:228:ALA:HB3	2:L:220:ALA:HB2	1.96	0.48
1:M:139:GLU:HG3	2:N:143:ARG:HH21	1.79	0.48
1:M:245:ASN:OD1	1:M:246:PRO:CD	2.62	0.48
2:T:140:ILE:HD11	2:T:173:LEU:CD2	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:264:ILE:HD13	1:U:271:ILE:HD11	1.96	0.48
2:B:90:ILE:CB	2:B:127:LEU:HD21	2.43	0.47
2:B:200:VAL:HG21	1:C:222:ARG:HG3	1.94	0.47
1:E:60:GLN:HA	1:E:118:PRO:HB2	1.95	0.47
2:F:251:LEU:HD21	1:G:261:SER:HB2	1.95	0.47
2:H:134:PHE:HB2	2:H:139:LEU:CD2	2.44	0.47
2:H:140:ILE:O	2:H:140:ILE:HG22	2.14	0.47
2:J:92:LEU:HD23	2:J:154:LEU:HD22	1.94	0.47
1:K:60:GLN:HA	1:K:118:PRO:HB2	1.95	0.47
2:L:78:VAL:HG13	2:L:124:THR:HG23	1.95	0.47
2:P:259:TYR:OH	1:Q:278:LEU:O	2.26	0.47
1:U:94:THR:HG21	1:U:145:VAL:CB	2.44	0.47
1:U:245:ASN:OD1	1:U:246:PRO:CD	2.62	0.47
2:V:90:ILE:CB	2:V:127:LEU:HD21	2.43	0.47
1:A:62:THR:CG2	1:A:64:LEU:HD21	2.44	0.47
1:A:245:ASN:OD1	1:A:246:PRO:CD	2.62	0.47
2:B:259:TYR:C	2:B:260:LEU:HD12	2.37	0.47
1:G:83:ILE:HG21	1:G:117:LEU:HD11	1.96	0.47
1:I:238:LEU:HD13	2:J:235:LEU:HD13	1.94	0.47
1:I:245:ASN:OD1	1:I:246:PRO:CD	2.62	0.47
1:K:62:THR:CG2	1:K:64:LEU:HD21	2.44	0.47
2:L:54:THR:HG22	2:L:54:THR:O	2.14	0.47
2:L:207:LYS:HG3	1:M:227:GLN:HG2	1.96	0.47
1:M:110:SER:HB2	1:M:177:LEU:HD22	1.96	0.47
1:M:131:ARG:HA	2:N:73:PRO:HB3	1.95	0.47
1:M:139:GLU:HG3	2:N:143:ARG:NH2	2.29	0.47
1:O:52:PHE:HB2	1:O:79:ILE:HD11	1.95	0.47
2:P:50:VAL:HG13	2:P:55:HIS:CD2	2.49	0.47
2:R:200:VAL:HA	1:S:226:VAL:HG11	1.96	0.47
1:W:110:SER:HB2	1:W:177:LEU:HD22	1.96	0.47
1:A:60:GLN:HA	1:A:118:PRO:HB2	1.95	0.47
1:A:83:ILE:HG21	1:A:117:LEU:HD11	1.96	0.47
1:A:110:SER:HB2	1:A:177:LEU:HD22	1.96	0.47
1:A:264:ILE:HD13	1:A:271:ILE:HD11	1.96	0.47
2:B:43:ARG:CG	2:B:43:ARG:HB3	2.24	0.47
2:B:264:GLN:HB2	2:B:266:VAL:HG23	1.96	0.47
1:C:52:PHE:HB2	1:C:79:ILE:HD11	1.95	0.47
2:D:207:LYS:HG3	1:E:227:GLN:CG	2.44	0.47
1:E:245:ASN:OD1	1:E:246:PRO:CD	2.62	0.47
1:G:62:THR:CG2	1:G:64:LEU:HD21	2.44	0.47
1:G:249:ILE:HG21	1:I:294:LEU:CG	2.36	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:90:ILE:CB	2:H:127:LEU:HD21	2.43	0.47
1:I:102:VAL:HG22	1:I:189:PHE:CD2	2.48	0.47
2:J:43:ARG:CG	2:J:43:ARG:HB2	2.24	0.47
2:L:50:VAL:HG13	2:L:55:HIS:CD2	2.49	0.47
2:N:264:GLN:HB2	2:N:266:VAL:HG23	1.96	0.47
2:P:186:LYS:N	1:Q:212:PHE:CE2	2.83	0.47
2:P:264:GLN:HB2	2:P:266:VAL:HG23	1.97	0.47
2:R:264:GLN:HB2	2:R:266:VAL:HG23	1.96	0.47
2:R:267:LEU:HD21	2:T:267:LEU:CD1	2.15	0.47
2:V:259:TYR:HE1	1:W:277:ASN:HB2	1.78	0.47
1:W:214:VAL:O	1:W:218:LYS:HG2	2.15	0.47
2:B:28:TYR:CD1	2:B:30:VAL:HG23	2.47	0.47
2:B:269:GLN:HA	2:D:269:GLN:OE1	2.14	0.47
2:D:140:ILE:O	2:D:140:ILE:HG22	2.15	0.47
2:D:197:ARG:N	1:E:219:GLN:HE22	2.12	0.47
2:D:240:LYS:HE3	1:E:254:ILE:CD1	2.44	0.47
1:E:264:ILE:HD13	1:E:271:ILE:HD11	1.96	0.47
2:F:127:LEU:O	2:F:131:VAL:HG23	2.15	0.47
1:K:274:THR:HG22	2:L:261:PRO:HG3	1.96	0.47
2:L:90:ILE:CB	2:L:127:LEU:HD21	2.43	0.47
2:P:140:ILE:HD11	2:P:173:LEU:CD2	2.43	0.47
2:P:196:ALA:CB	1:Q:220:GLU:HG3	2.43	0.47
1:S:62:THR:CG2	1:S:64:LEU:HD21	2.44	0.47
1:S:124:LEU:HD11	1:S:175:PHE:HB3	1.97	0.47
2:T:41:ARG:CZ	1:U:44:GLU:HG3	2.43	0.47
1:U:62:THR:CG2	1:U:64:LEU:HD21	2.44	0.47
2:V:246:ASP:CB	1:W:258:GLN:NE2	2.77	0.47
2:V:250:GLN:HB3	1:W:262:LYS:HA	1.95	0.47
1:W:245:ASN:OD1	1:W:246:PRO:CD	2.62	0.47
1:A:66:GLU:OE1	2:X:47:ASP:CG	2.57	0.47
1:A:214:VAL:O	1:A:218:LYS:HG2	2.15	0.47
2:B:189:ALA:HB3	1:C:212:PHE:HB2	1.96	0.47
1:C:110:SER:HB2	1:C:177:LEU:HD22	1.96	0.47
2:F:140:ILE:HG22	2:F:140:ILE:O	2.14	0.47
1:M:142:LYS:HE3	2:N:173:LEU:HG	1.96	0.47
2:N:50:VAL:HG13	2:N:55:HIS:CD2	2.49	0.47
2:R:103:LEU:HA	2:R:106:ILE:HD12	1.97	0.47
1:S:214:VAL:O	1:S:218:LYS:HG2	2.15	0.47
2:V:50:VAL:HG13	2:V:55:HIS:CD2	2.49	0.47
2:X:50:VAL:HG13	2:X:55:HIS:CD2	2.49	0.47
2:X:78:VAL:HG13	2:X:124:THR:HG23	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:224:ILE:HG21	1:E:248:TYR:CD1	2.48	0.47
2:F:106:ILE:HG22	2:F:106:ILE:O	2.15	0.47
2:F:140:ILE:HG12	2:F:173:LEU:HD21	1.97	0.47
2:F:260:LEU:O	1:G:274:THR:O	2.32	0.47
1:G:260:ILE:CG2	1:I:278:LEU:HD22	2.45	0.47
1:I:110:SER:HB2	1:I:177:LEU:HD22	1.96	0.47
2:J:78:VAL:HG13	2:J:124:THR:HG23	1.95	0.47
1:K:225:ILE:HD13	2:L:219:LYS:HD3	1.97	0.47
1:K:250:LYS:HG2	1:M:287:PHE:HE2	1.80	0.47
2:L:218:SER:OG	1:M:238:LEU:HD23	2.14	0.47
1:M:135:SER:CB	2:N:93:ARG:HG3	2.44	0.47
1:O:245:ASN:OD1	1:O:246:PRO:CD	2.62	0.47
2:P:103:LEU:HA	2:P:106:ILE:HD12	1.97	0.47
2:P:184:GLU:OE2	2:P:188:VAL:CG2	2.63	0.47
1:Q:110:SER:HB2	1:Q:177:LEU:HD22	1.96	0.47
2:R:248:ALA:HB1	1:S:278:LEU:CD2	2.44	0.47
1:S:83:ILE:HG21	1:S:117:LEU:HD11	1.96	0.47
2:T:43:ARG:CG	2:T:43:ARG:HB3	2.24	0.47
2:X:106:ILE:O	2:X:106:ILE:HG22	2.15	0.47
1:A:200:LYS:HD2	2:B:194:GLU:OE1	2.15	0.47
1:A:281:ASN:OD1	1:W:274:THR:HG21	2.14	0.47
2:B:50:VAL:HG13	2:B:55:HIS:CD2	2.49	0.47
2:B:106:ILE:O	2:B:106:ILE:HG22	2.15	0.47
2:B:127:LEU:O	2:B:131:VAL:HG23	2.15	0.47
2:B:221:ALA:HA	1:C:248:TYR:HB3	1.95	0.47
1:C:253:LYS:HD3	1:E:279:VAL:CB	2.45	0.47
1:C:264:ILE:HD13	1:C:271:ILE:HD11	1.96	0.47
2:D:78:VAL:HG13	2:D:124:THR:HG23	1.95	0.47
2:D:127:LEU:O	2:D:131:VAL:HG23	2.15	0.47
2:D:207:LYS:HD2	1:E:227:GLN:HG2	1.95	0.47
2:D:264:GLN:HB2	2:D:266:VAL:HG23	1.96	0.47
1:E:214:VAL:O	1:E:218:LYS:HG2	2.15	0.47
2:F:43:ARG:CG	2:F:43:ARG:HB2	2.24	0.47
1:G:124:LEU:HD11	1:G:175:PHE:HB3	1.97	0.47
1:G:264:ILE:HD13	1:G:271:ILE:HD11	1.96	0.47
1:I:81:TYR:CG	1:I:117:LEU:HD22	2.50	0.47
1:K:81:TYR:CG	1:K:117:LEU:HD22	2.50	0.47
1:K:83:ILE:HG21	1:K:117:LEU:HD11	1.96	0.47
1:K:110:SER:HB2	1:K:177:LEU:HD22	1.96	0.47
1:K:226:VAL:HA	1:K:229:GLU:OE1	2.15	0.47
1:K:260:ILE:CD1	2:L:244:ALA:HB1	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:41:ARG:HD3	1:M:43:VAL:O	2.15	0.47
2:L:106:ILE:O	2:L:106:ILE:HG22	2.15	0.47
2:N:127:LEU:O	2:N:131:VAL:HG23	2.15	0.47
1:O:110:SER:HB2	1:O:177:LEU:HD22	1.96	0.47
1:O:124:LEU:HD11	1:O:175:PHE:HB3	1.97	0.47
1:O:214:VAL:O	1:O:218:LYS:HG2	2.15	0.47
2:P:44:GLY:O	1:Q:66:GLU:HG2	2.15	0.47
2:P:106:ILE:O	2:P:106:ILE:HG22	2.15	0.47
2:P:127:LEU:O	2:P:131:VAL:HG23	2.15	0.47
1:Q:264:ILE:HD13	1:Q:271:ILE:HD11	1.96	0.47
1:S:94:THR:HG21	1:S:145:VAL:CB	2.44	0.47
1:S:264:ILE:HD13	1:S:271:ILE:HD11	1.96	0.47
1:S:280:LEU:CD2	1:S:282:LEU:HD11	2.45	0.47
2:T:41:ARG:CG	1:U:44:GLU:HA	2.41	0.47
2:T:140:ILE:HG12	2:T:173:LEU:HD21	1.97	0.47
2:T:264:GLN:HB2	2:T:266:VAL:HG23	1.97	0.47
1:U:124:LEU:HD11	1:U:175:PHE:HB3	1.97	0.47
1:U:164:ILE:HD12	1:U:184:ILE:CD1	2.36	0.47
1:U:226:VAL:HA	1:U:229:GLU:OE1	2.15	0.47
1:U:280:LEU:CD2	1:U:282:LEU:HD11	2.45	0.47
2:V:246:ASP:OD2	1:W:258:GLN:CD	2.58	0.47
1:W:81:TYR:CG	1:W:117:LEU:HD22	2.50	0.47
1:W:102:VAL:HG22	1:W:189:PHE:CD2	2.49	0.47
1:W:124:LEU:HD11	1:W:175:PHE:HB3	1.97	0.47
2:X:54:THR:O	2:X:54:THR:HG22	2.14	0.47
2:X:127:LEU:O	2:X:131:VAL:HG23	2.15	0.47
2:X:184:GLU:OE2	2:X:188:VAL:CG2	2.63	0.47
1:A:124:LEU:HD11	1:A:175:PHE:HB3	1.97	0.47
1:A:271:ILE:C	1:A:272:TYR:CD1	2.93	0.47
1:A:283:GLN:NE2	1:W:276:ASP:O	2.48	0.47
2:D:106:ILE:O	2:D:106:ILE:HG22	2.15	0.47
2:D:259:TYR:C	2:D:260:LEU:HD12	2.37	0.47
1:E:102:VAL:HG22	1:E:189:PHE:CD2	2.48	0.47
2:F:54:THR:HG22	2:F:54:THR:O	2.14	0.47
1:G:123:ARG:O	2:H:71:SER:CB	2.63	0.47
2:H:50:VAL:HG13	2:H:55:HIS:CD2	2.49	0.47
2:H:184:GLU:OE2	2:H:188:VAL:CG2	2.63	0.47
1:K:224:LYS:O	2:L:219:LYS:HE2	2.15	0.47
1:K:225:ILE:N	2:L:219:LYS:HE2	2.29	0.47
1:K:235:ALA:HB1	2:L:228:LEU:HD11	1.95	0.47
2:L:43:ARG:HA	1:M:67:GLY:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:81:TYR:CG	1:M:117:LEU:HD22	2.50	0.47
1:M:124:LEU:HD11	1:M:175:PHE:HB3	1.97	0.47
2:P:121:SER:CB	1:Q:183:ALA:HB1	2.45	0.47
1:Q:83:ILE:HG21	1:Q:117:LEU:HD11	1.96	0.47
1:Q:245:ASN:OD1	1:Q:246:PRO:CD	2.62	0.47
1:S:245:ASN:OD1	1:S:246:PRO:CD	2.62	0.47
2:V:106:ILE:HG22	2:V:106:ILE:O	2.15	0.47
1:W:83:ILE:HG21	1:W:117:LEU:HD11	1.96	0.47
1:W:226:VAL:HA	1:W:229:GLU:OE1	2.15	0.47
1:A:280:LEU:CD2	1:A:282:LEU:HD11	2.45	0.47
1:A:282:LEU:N	1:W:277:ASN:HD21	2.13	0.47
1:C:68:LEU:O	1:C:69:HIS:CG	2.68	0.47
1:C:83:ILE:HG21	1:C:117:LEU:HD11	1.96	0.47
1:C:130:GLU:O	2:D:93:ARG:CZ	2.62	0.47
1:C:175:PHE:HZ	2:D:167:ASP:CG	2.22	0.47
2:D:50:VAL:HG13	2:D:55:HIS:CD2	2.49	0.47
2:D:236:ILE:O	1:E:254:ILE:CG1	2.63	0.47
1:E:81:TYR:CG	1:E:117:LEU:HD22	2.50	0.47
1:E:274:THR:HG1	1:E:277:ASN:CG	2.21	0.47
1:G:60:GLN:HA	1:G:118:PRO:HB2	1.95	0.47
1:K:124:LEU:HD11	1:K:175:PHE:HB3	1.97	0.47
1:K:214:VAL:O	1:K:218:LYS:HG2	2.15	0.47
1:K:260:ILE:HD11	2:L:244:ALA:CB	2.45	0.47
2:L:127:LEU:O	2:L:131:VAL:HG23	2.15	0.47
2:N:140:ILE:HG12	2:N:173:LEU:HD21	1.97	0.47
2:P:41:ARG:CD	1:Q:42:THR:C	2.88	0.47
2:P:61:VAL:O	1:Q:43:VAL:O	2.33	0.47
1:Q:68:LEU:O	1:Q:69:HIS:CG	2.68	0.47
1:Q:280:LEU:CD2	1:Q:282:LEU:HD11	2.45	0.47
2:R:50:VAL:HG13	2:R:55:HIS:CD2	2.49	0.47
1:S:249:ILE:HD11	2:T:237:GLU:O	2.15	0.47
2:T:50:VAL:HG13	2:T:55:HIS:CD2	2.49	0.47
2:T:127:LEU:O	2:T:131:VAL:HG23	2.15	0.47
2:T:184:GLU:OE2	2:T:188:VAL:CG2	2.63	0.47
1:U:214:VAL:O	1:U:218:LYS:HG2	2.15	0.47
2:V:54:THR:HG22	2:V:54:THR:O	2.14	0.47
1:W:264:ILE:HD13	1:W:271:ILE:HD11	1.96	0.47
1:W:280:LEU:CD2	1:W:282:LEU:HD11	2.45	0.47
1:A:68:LEU:O	1:A:69:HIS:CG	2.68	0.47
1:A:72:ILE:HB	1:A:75:PHE:HB3	1.97	0.47
1:A:81:TYR:CD2	1:A:117:LEU:HD22	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:78:VAL:HG13	2:B:124:THR:HG23	1.95	0.47
2:B:184:GLU:OE2	2:B:188:VAL:CG2	2.63	0.47
2:B:260:LEU:HD11	2:X:270:LEU:HD11	1.96	0.47
1:C:100:GLN:HB2	2:D:184:GLU:HG2	1.97	0.47
1:C:271:ILE:C	1:C:272:TYR:CD1	2.93	0.47
2:D:54:THR:HG22	2:D:54:THR:O	2.14	0.47
2:D:200:VAL:CG2	1:E:219:GLN:HE21	2.28	0.47
1:E:68:LEU:O	1:E:69:HIS:CG	2.68	0.47
1:E:81:TYR:CD2	1:E:117:LEU:HD22	2.50	0.47
2:F:43:ARG:CG	2:F:43:ARG:HB3	2.24	0.47
1:G:280:LEU:CD2	1:G:282:LEU:HD11	2.45	0.47
2:H:43:ARG:CB	2:H:43:ARG:HG2	2.22	0.47
2:H:54:THR:O	2:H:54:THR:HG22	2.14	0.47
2:H:103:LEU:HA	2:H:106:ILE:HD12	1.97	0.47
2:H:127:LEU:O	2:H:131:VAL:HG23	2.15	0.47
1:I:72:ILE:HB	1:I:75:PHE:HB3	1.97	0.47
1:I:81:TYR:CD2	1:I:117:LEU:HD22	2.50	0.47
1:K:72:ILE:HB	1:K:75:PHE:HB3	1.97	0.47
1:M:68:LEU:O	1:M:69:HIS:CG	2.68	0.47
1:O:271:ILE:C	1:O:272:TYR:CD1	2.93	0.47
1:Q:81:TYR:CD2	1:Q:117:LEU:HD22	2.50	0.47
1:Q:124:LEU:HD11	1:Q:175:PHE:HB3	1.97	0.47
1:Q:214:VAL:O	1:Q:218:LYS:HG2	2.15	0.47
1:Q:260:ILE:HD11	2:R:244:ALA:O	2.15	0.47
2:R:140:ILE:O	2:R:140:ILE:HG22	2.14	0.47
1:S:271:ILE:C	1:S:272:TYR:CD1	2.93	0.47
2:T:54:THR:HG22	2:T:54:THR:O	2.14	0.47
1:U:81:TYR:CD2	1:U:117:LEU:HD22	2.50	0.47
1:U:81:TYR:CG	1:U:117:LEU:HD22	2.50	0.47
1:U:271:ILE:C	1:U:272:TYR:CD1	2.93	0.47
2:V:256:ASN:HB2	1:W:270:ARG:CB	2.44	0.47
1:C:214:VAL:O	1:C:218:LYS:HG2	2.15	0.46
1:E:124:LEU:HD11	1:E:175:PHE:HB3	1.97	0.46
1:E:226:VAL:HA	1:E:229:GLU:OE1	2.15	0.46
2:F:264:GLN:HB2	2:F:266:VAL:HG23	1.96	0.46
1:G:110:SER:HB2	1:G:177:LEU:HD22	1.96	0.46
1:G:214:VAL:O	1:G:218:LYS:HG2	2.15	0.46
2:H:140:ILE:HG12	2:H:173:LEU:HD21	1.97	0.46
2:H:268:LEU:CD1	2:J:266:VAL:HG13	2.41	0.46
1:I:94:THR:HG21	1:I:145:VAL:CB	2.44	0.46
1:I:221:GLN:OE1	2:J:216:GLY:HA3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:134:PHE:HB2	2:L:139:LEU:CD2	2.43	0.46
1:M:72:ILE:HB	1:M:75:PHE:HB3	1.97	0.46
1:M:81:TYR:CD2	1:M:117:LEU:HD22	2.50	0.46
2:N:140:ILE:HG22	2:N:140:ILE:O	2.14	0.46
1:O:211:GLN:O	1:O:214:VAL:HB	2.16	0.46
1:O:290:GLY:C	1:Q:283:GLN:OE1	2.56	0.46
2:P:186:LYS:HD3	1:Q:208:GLN:OE1	2.16	0.46
2:R:214:ALA:CB	2:T:242:GLU:OE2	2.63	0.46
1:S:68:LEU:O	1:S:69:HIS:CG	2.68	0.46
1:S:169:THR:HA	1:S:179:LEU:HD12	1.97	0.46
1:S:226:VAL:HA	1:S:229:GLU:OE1	2.15	0.46
2:T:106:ILE:O	2:T:106:ILE:HG22	2.15	0.46
1:U:142:LYS:CE	2:V:140:ILE:HD13	2.45	0.46
2:V:140:ILE:HG12	2:V:173:LEU:HD21	1.97	0.46
2:V:218:SER:CB	1:W:237:MET:CE	2.82	0.46
2:V:247:ILE:HD11	1:W:257:ALA:CB	2.44	0.46
1:W:52:PHE:HB2	1:W:79:ILE:HD11	1.95	0.46
1:W:60:GLN:HA	1:W:118:PRO:HB2	1.95	0.46
1:W:81:TYR:CD2	1:W:117:LEU:HD22	2.50	0.46
1:A:193:TYR:HE1	2:B:187:GLN:CB	2.28	0.46
1:A:203:ALA:HB1	2:B:199:VAL:HA	1.96	0.46
2:B:211:ILE:HG21	1:C:233:GLU:OE2	2.13	0.46
1:C:44:GLU:O	1:C:47:HIS:HB2	2.16	0.46
1:C:131:ARG:CG	2:D:71:SER:O	2.59	0.46
1:C:193:TYR:CZ	2:D:191:GLN:HG3	2.50	0.46
2:D:247:ILE:CG2	1:E:261:SER:HB2	2.45	0.46
1:G:81:TYR:CD2	1:G:117:LEU:HD22	2.50	0.46
2:H:264:GLN:HB2	2:H:266:VAL:HG23	1.96	0.46
1:I:44:GLU:O	1:I:47:HIS:HB2	2.16	0.46
1:I:68:LEU:O	1:I:69:HIS:CG	2.68	0.46
1:I:169:THR:HA	1:I:179:LEU:HD12	1.97	0.46
2:J:41:ARG:CD	1:K:43:VAL:H	2.28	0.46
2:J:127:LEU:O	2:J:131:VAL:HG23	2.15	0.46
2:J:140:ILE:HG12	2:J:173:LEU:HD21	1.97	0.46
1:K:81:TYR:CD2	1:K:117:LEU:HD22	2.50	0.46
1:M:62:THR:CG2	1:M:64:LEU:HD21	2.44	0.46
2:N:221:ALA:HB2	1:O:248:TYR:CG	2.50	0.46
2:N:269:GLN:HG3	2:P:269:GLN:HG2	1.98	0.46
1:O:81:TYR:CD2	1:O:117:LEU:HD22	2.50	0.46
1:O:226:VAL:HA	1:O:229:GLU:OE1	2.15	0.46
2:P:39:PHE:CG	1:Q:45:GLY:O	2.60	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:140:ILE:O	2:P:140:ILE:HG22	2.15	0.46
1:Q:226:VAL:HA	1:Q:229:GLU:OE1	2.15	0.46
2:R:76:VAL:HG21	2:R:120:PRO:HA	1.98	0.46
2:R:237:GLU:OE1	1:S:293:SER:CB	2.63	0.46
1:S:81:TYR:CG	1:S:117:LEU:HD22	2.50	0.46
1:S:274:THR:HG1	1:S:277:ASN:CG	2.23	0.46
2:T:76:VAL:HG21	2:T:120:PRO:HA	1.97	0.46
1:U:44:GLU:O	1:U:47:HIS:HB2	2.16	0.46
1:U:72:ILE:HB	1:U:75:PHE:HB3	1.97	0.46
1:A:81:TYR:CG	1:A:117:LEU:HD22	2.50	0.46
2:B:260:LEU:HD13	2:B:268:LEU:CD2	2.45	0.46
1:C:81:TYR:CD2	1:C:117:LEU:HD22	2.50	0.46
2:D:184:GLU:OE2	2:D:188:VAL:CG2	2.63	0.46
2:D:228:LEU:C	1:E:247:GLY:CA	2.88	0.46
2:F:50:VAL:HG13	2:F:55:HIS:CD2	2.49	0.46
1:G:44:GLU:O	1:G:47:HIS:HB2	2.16	0.46
2:H:241:LEU:HD11	1:K:283:GLN:HE22	1.77	0.46
1:I:214:VAL:O	1:I:218:LYS:HG2	2.15	0.46
2:J:43:ARG:HA	1:K:67:GLY:N	2.27	0.46
1:K:68:LEU:O	1:K:69:HIS:CG	2.68	0.46
2:L:140:ILE:HG12	2:L:173:LEU:HD21	1.97	0.46
2:L:224:ILE:HD12	1:M:248:TYR:CD1	2.50	0.46
1:M:214:VAL:O	1:M:218:LYS:HG2	2.15	0.46
1:M:226:VAL:HA	1:M:229:GLU:OE1	2.15	0.46
1:M:280:LEU:CD2	1:M:282:LEU:HD11	2.45	0.46
2:N:268:LEU:CD1	2:P:260:LEU:HG	2.45	0.46
1:O:44:GLU:O	1:O:47:HIS:HB2	2.16	0.46
1:O:256:ALA:HB2	2:P:245:GLU:CD	2.40	0.46
1:O:264:ILE:HD13	1:O:271:ILE:HD11	1.96	0.46
2:P:43:ARG:C	1:Q:66:GLU:HG2	2.40	0.46
2:P:85:LEU:HD12	1:Q:200:LYS:HZ3	1.80	0.46
2:P:87:ASN:OD1	1:Q:194:THR:HG21	2.14	0.46
2:P:182:ALA:HB3	1:Q:205:GLN:CB	2.46	0.46
1:Q:52:PHE:HB2	1:Q:79:ILE:HD11	1.95	0.46
2:T:140:ILE:HG22	2:T:140:ILE:O	2.15	0.46
2:T:259:TYR:CE1	1:U:278:LEU:CB	2.98	0.46
2:V:140:ILE:HG22	2:V:140:ILE:O	2.14	0.46
2:X:43:ARG:CG	2:X:43:ARG:HB2	2.24	0.46
1:A:44:GLU:O	1:A:47:HIS:HB2	2.16	0.46
1:A:84:ARG:HG2	2:X:108:THR:O	2.14	0.46
1:A:275:ALA:HA	2:X:261:PRO:CA	2.35	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:140:ILE:HG12	2:B:173:LEU:HD21	1.97	0.46
1:C:81:TYR:CG	1:C:117:LEU:HD22	2.50	0.46
1:C:226:VAL:HA	1:C:229:GLU:OE1	2.15	0.46
2:D:268:LEU:O	2:F:269:GLN:HB2	2.16	0.46
1:E:72:ILE:HB	1:E:75:PHE:HB3	1.97	0.46
1:G:81:TYR:CG	1:G:117:LEU:HD22	2.50	0.46
1:I:271:ILE:C	1:I:272:TYR:CD1	2.93	0.46
2:J:50:VAL:HG13	2:J:55:HIS:CD2	2.49	0.46
2:J:103:LEU:HA	2:J:106:ILE:HD12	1.97	0.46
2:J:184:GLU:OE2	2:J:188:VAL:CG2	2.63	0.46
1:M:96:SER:N	1:M:99:LEU:HA	2.31	0.46
1:M:211:GLN:O	1:M:214:VAL:HB	2.15	0.46
2:N:184:GLU:OE2	2:N:188:VAL:CG2	2.63	0.46
2:P:81:GLY:H	1:Q:154:ILE:CG2	2.28	0.46
1:S:268:GLN:C	2:T:255:ARG:O	2.59	0.46
1:U:96:SER:N	1:U:99:LEU:HA	2.31	0.46
1:U:211:GLN:O	1:U:214:VAL:HB	2.16	0.46
2:V:259:TYR:CD1	1:W:273:LEU:CB	2.98	0.46
2:V:264:GLN:HB2	2:V:266:VAL:HG23	1.96	0.46
1:W:44:GLU:O	1:W:47:HIS:HB2	2.16	0.46
2:X:103:LEU:HA	2:X:106:ILE:HD12	1.97	0.46
2:X:259:TYR:C	2:X:260:LEU:HD12	2.37	0.46
1:A:221:GLN:OE1	2:B:216:GLY:CA	2.63	0.46
2:B:270:LEU:HD22	1:C:272:TYR:CD2	2.50	0.46
1:C:211:GLN:O	1:C:214:VAL:HB	2.16	0.46
1:C:280:LEU:CD2	1:C:282:LEU:HD11	2.45	0.46
2:D:240:LYS:CG	1:E:254:ILE:HG23	2.39	0.46
2:F:184:GLU:OE2	2:F:188:VAL:CG2	2.63	0.46
1:G:4:ASN:O	1:G:8:LEU:HD13	2.16	0.46
1:G:58:VAL:H	2:H:32:ALA:HB1	1.81	0.46
1:G:226:VAL:HA	1:G:229:GLU:OE1	2.15	0.46
1:G:281:ASN:O	1:G:283:GLN:N	2.49	0.46
2:H:106:ILE:O	2:H:106:ILE:HG22	2.15	0.46
1:I:140:VAL:HG13	1:I:167:GLU:HB2	1.98	0.46
1:I:226:VAL:HA	1:I:229:GLU:OE1	2.15	0.46
2:J:43:ARG:CG	2:J:43:ARG:HB3	2.24	0.46
1:K:94:THR:HG21	1:K:145:VAL:CB	2.44	0.46
1:K:271:ILE:C	1:K:272:TYR:CD1	2.93	0.46
1:K:299:LYS:OXT	1:M:285:GLU:HG2	2.15	0.46
1:M:93:PRO:HG2	2:N:172:HIS:CD2	2.51	0.46
1:M:271:ILE:C	1:M:272:TYR:CD1	2.93	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:81:TYR:CG	1:O:117:LEU:HD22	2.50	0.46
2:P:259:TYR:C	2:P:260:LEU:HD12	2.37	0.46
1:Q:62:THR:CG2	1:Q:64:LEU:HD21	2.44	0.46
2:R:184:GLU:OE2	2:R:188:VAL:CG2	2.63	0.46
1:S:96:SER:N	1:S:99:LEU:HA	2.31	0.46
1:S:221:GLN:O	1:S:225:ILE:HG12	2.16	0.46
2:V:236:ILE:CG1	1:W:247:GLY:HA2	2.44	0.46
1:W:221:GLN:O	1:W:225:ILE:HG12	2.16	0.46
1:W:271:ILE:C	1:W:272:TYR:CD1	2.93	0.46
2:X:140:ILE:O	2:X:140:ILE:HG22	2.14	0.46
2:X:264:GLN:HB2	2:X:266:VAL:HG23	1.96	0.46
1:A:68:LEU:H	2:X:43:ARG:CD	2.26	0.46
1:A:104:ILE:HD11	1:A:187:LEU:CD1	2.46	0.46
1:A:203:ALA:HB1	2:B:199:VAL:N	2.31	0.46
1:C:104:ILE:HD11	1:C:187:LEU:CD1	2.46	0.46
2:D:189:ALA:HB1	1:E:212:PHE:CG	2.51	0.46
1:E:211:GLN:O	1:E:214:VAL:HB	2.15	0.46
1:E:280:LEU:CD2	1:E:282:LEU:HD11	2.45	0.46
1:I:62:THR:CG2	1:I:64:LEU:HD21	2.44	0.46
1:I:211:GLN:O	1:I:214:VAL:HB	2.15	0.46
1:I:280:LEU:CD2	1:I:282:LEU:HD11	2.45	0.46
1:K:140:VAL:HG13	1:K:167:GLU:HB2	1.98	0.46
1:M:264:ILE:HD13	1:M:271:ILE:HD11	1.96	0.46
1:O:68:LEU:O	1:O:69:HIS:CG	2.68	0.46
1:O:96:SER:N	1:O:99:LEU:HA	2.31	0.46
1:O:280:LEU:CD2	1:O:282:LEU:HD11	2.45	0.46
2:P:109:SER:HB3	1:Q:111:ARG:CG	2.45	0.46
2:P:121:SER:CB	1:Q:183:ALA:CB	2.94	0.46
1:Q:81:TYR:CG	1:Q:117:LEU:HD22	2.50	0.46
2:R:54:THR:O	2:R:54:THR:HG22	2.14	0.46
2:V:251:LEU:HD22	1:W:271:ILE:CD1	2.46	0.46
1:W:140:VAL:HG13	1:W:167:GLU:HB2	1.98	0.46
1:C:293:SER:CB	1:E:283:GLN:CD	2.89	0.46
1:G:151:SER:HB3	1:G:193:TYR:CE2	2.51	0.46
1:I:4:ASN:O	1:I:8:LEU:HD13	2.16	0.46
1:I:164:ILE:HD12	1:I:184:ILE:CD1	2.36	0.46
1:I:264:ILE:HD13	1:I:271:ILE:HD11	1.96	0.46
1:K:44:GLU:O	1:K:47:HIS:HB2	2.16	0.46
1:K:151:SER:HB3	1:K:193:TYR:CE2	2.51	0.46
2:L:140:ILE:HG22	2:L:140:ILE:O	2.15	0.46
2:L:184:GLU:OE2	2:L:188:VAL:CG2	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:44:GLU:O	1:M:47:HIS:HB2	2.16	0.46
1:M:218:LYS:NZ	2:N:212:ILE:HD11	2.31	0.46
1:Q:96:SER:N	1:Q:99:LEU:HA	2.31	0.46
1:Q:104:ILE:HD11	1:Q:187:LEU:CD1	2.46	0.46
1:Q:211:GLN:O	1:Q:214:VAL:HB	2.16	0.46
1:S:104:ILE:HD11	1:S:187:LEU:CD1	2.46	0.46
1:S:211:GLN:O	1:S:214:VAL:HB	2.16	0.46
1:U:203:ALA:C	2:V:198:PHE:HB3	2.41	0.46
2:V:184:GLU:OE2	2:V:188:VAL:CG2	2.63	0.46
1:W:281:ASN:O	1:W:283:GLN:N	2.49	0.46
1:W:282:LEU:HA	1:W:287:PHE:CE1	2.51	0.46
1:A:4:ASN:O	1:A:8:LEU:HD13	2.16	0.46
1:A:211:GLN:O	1:A:214:VAL:HB	2.16	0.46
1:A:281:ASN:O	1:A:283:GLN:N	2.49	0.46
1:A:294:LEU:HD11	1:W:249:ILE:HD12	1.98	0.46
2:B:140:ILE:O	2:B:140:ILE:HG22	2.15	0.46
1:C:4:ASN:O	1:C:8:LEU:HD13	2.16	0.46
1:C:281:ASN:O	1:C:283:GLN:N	2.49	0.46
2:F:270:LEU:HD13	1:G:272:TYR:CD2	2.51	0.46
1:G:104:ILE:HD11	1:G:187:LEU:CD1	2.46	0.46
1:G:211:GLN:O	1:G:214:VAL:HB	2.15	0.46
2:H:76:VAL:HG21	2:H:120:PRO:HA	1.97	0.46
1:M:139:GLU:CG	2:N:169:SER:HB3	2.46	0.46
1:M:221:GLN:O	1:M:225:ILE:HG12	2.16	0.46
1:O:62:THR:CG2	1:O:64:LEU:HD21	2.44	0.46
2:P:124:THR:HG21	1:Q:157:ARG:CZ	2.46	0.46
1:Q:44:GLU:O	1:Q:47:HIS:HB2	2.16	0.46
1:Q:221:GLN:O	1:Q:225:ILE:HG12	2.16	0.46
1:Q:271:ILE:C	1:Q:272:TYR:CD1	2.93	0.46
1:Q:272:TYR:HB2	2:R:258:THR:HG23	1.97	0.46
1:S:81:TYR:CD2	1:S:117:LEU:HD22	2.50	0.46
1:S:238:LEU:CB	2:T:235:LEU:HD22	2.46	0.46
1:S:281:ASN:O	1:S:283:GLN:N	2.49	0.46
2:T:41:ARG:HD3	1:U:43:VAL:C	2.32	0.46
2:V:76:VAL:HG21	2:V:120:PRO:HA	1.98	0.46
2:V:254:SER:OG	1:W:269:ASN:O	2.33	0.46
1:W:72:ILE:HB	1:W:75:PHE:HB3	1.97	0.46
1:W:169:THR:HA	1:W:179:LEU:HD12	1.97	0.46
1:A:221:GLN:HG2	2:B:215:GLU:CB	2.46	0.46
1:A:282:LEU:HA	1:A:287:PHE:CE1	2.51	0.46
1:C:72:ILE:HB	1:C:75:PHE:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:94:THR:HG21	1:C:145:VAL:CB	2.44	0.46
1:C:124:LEU:HD11	1:C:175:PHE:HB3	1.97	0.46
1:C:131:ARG:HA	2:D:95:LEU:HD22	1.96	0.46
1:E:44:GLU:O	1:E:47:HIS:HB2	2.16	0.46
2:F:76:VAL:HG21	2:F:120:PRO:HA	1.98	0.46
1:G:275:ALA:CB	1:I:284:ASP:CG	2.89	0.46
1:I:124:LEU:HD11	1:I:175:PHE:HB3	1.97	0.46
1:I:228:ALA:H	2:J:219:LYS:NZ	2.11	0.46
1:I:228:ALA:CB	2:J:219:LYS:NZ	2.73	0.46
2:J:140:ILE:O	2:J:140:ILE:HG22	2.14	0.46
2:J:260:LEU:HD22	2:J:268:LEU:HD21	1.98	0.46
1:K:228:ALA:H	2:L:219:LYS:HZ1	1.64	0.46
1:K:280:LEU:CD2	1:K:282:LEU:HD11	2.45	0.46
2:L:76:VAL:HG21	2:L:120:PRO:HA	1.97	0.46
1:M:131:ARG:O	2:N:95:LEU:CD2	2.64	0.46
2:N:54:THR:HG22	2:N:54:THR:O	2.14	0.46
2:N:260:LEU:HD22	2:N:268:LEU:HD21	1.98	0.46
1:O:169:THR:HA	1:O:179:LEU:HD12	1.97	0.46
2:P:76:VAL:HG21	2:P:120:PRO:HA	1.97	0.46
2:R:200:VAL:CG1	1:S:226:VAL:HG11	2.37	0.46
1:S:4:ASN:O	1:S:8:LEU:HD13	2.16	0.46
2:T:260:LEU:HD22	2:T:268:LEU:HD21	1.98	0.46
1:U:68:LEU:O	1:U:69:HIS:CG	2.68	0.46
1:W:104:ILE:HD11	1:W:187:LEU:CD1	2.46	0.46
1:W:211:GLN:O	1:W:214:VAL:HB	2.16	0.46
2:X:47:ASP:HA	2:X:104:PRO:CB	2.46	0.46
1:A:226:VAL:HA	1:A:229:GLU:OE1	2.15	0.46
1:C:96:SER:N	1:C:99:LEU:HA	2.31	0.46
1:C:221:GLN:O	1:C:225:ILE:HG12	2.16	0.46
1:C:282:LEU:HA	1:C:287:PHE:CE1	2.51	0.46
2:D:85:LEU:CD2	1:E:155:THR:HB	2.46	0.46
1:E:151:SER:HB3	1:E:193:TYR:CE2	2.51	0.46
1:E:278:LEU:C	1:E:279:VAL:HG23	2.41	0.46
2:F:103:LEU:HA	2:F:106:ILE:HD12	1.97	0.46
1:G:169:THR:HA	1:G:179:LEU:HD12	1.97	0.46
1:G:271:ILE:C	1:G:272:TYR:CD1	2.93	0.46
1:I:96:SER:N	1:I:99:LEU:HA	2.31	0.46
1:I:151:SER:HB3	1:I:193:TYR:CE2	2.51	0.46
1:K:4:ASN:O	1:K:8:LEU:HD13	2.16	0.46
1:K:96:SER:N	1:K:99:LEU:HA	2.31	0.46
1:K:281:ASN:O	1:K:283:GLN:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:138:ASN:HB2	2:N:171:THR:HG23	1.98	0.46
1:M:151:SER:HB3	1:M:193:TYR:CE2	2.51	0.46
1:M:164:ILE:HD12	1:M:184:ILE:CD1	2.36	0.46
2:N:43:ARG:CB	2:N:43:ARG:HG3	2.22	0.46
1:O:151:SER:HB3	1:O:193:TYR:CE2	2.51	0.46
2:P:42:PHE:N	1:Q:43:VAL:HG11	2.31	0.46
2:P:140:ILE:HG12	2:P:173:LEU:HD21	1.97	0.46
2:P:270:LEU:HD13	1:Q:272:TYR:CD2	2.51	0.46
1:Q:169:THR:HA	1:Q:179:LEU:HD12	1.97	0.46
1:S:272:TYR:CG	2:T:258:THR:HG23	2.51	0.46
2:T:43:ARG:CG	1:U:66:GLU:O	2.64	0.46
2:T:47:ASP:HA	2:T:104:PRO:CB	2.46	0.46
1:U:4:ASN:O	1:U:8:LEU:HD13	2.16	0.46
1:U:281:ASN:O	1:U:283:GLN:N	2.49	0.46
2:V:221:ALA:HB1	1:W:242:LEU:HD22	1.90	0.46
1:A:85:ALA:H	2:X:109:SER:CB	2.29	0.45
1:A:175:PHE:HZ	2:B:167:ASP:CB	2.28	0.45
1:A:200:LYS:C	2:B:198:PHE:HD2	2.24	0.45
1:C:52:PHE:O	1:C:76:GLN:HG2	2.16	0.45
2:D:140:ILE:HG12	2:D:173:LEU:HD21	1.97	0.45
2:D:228:LEU:HD12	1:E:251:LEU:CG	2.46	0.45
1:E:4:ASN:O	1:E:8:LEU:HD13	2.16	0.45
1:E:96:SER:N	1:E:99:LEU:HA	2.31	0.45
1:E:169:THR:HA	1:E:179:LEU:HD12	1.97	0.45
2:F:221:ALA:HB1	1:G:242:LEU:HD21	1.98	0.45
1:G:52:PHE:HE1	2:H:32:ALA:CA	2.28	0.45
1:G:52:PHE:O	1:G:76:GLN:HG2	2.16	0.45
2:H:47:ASP:HA	2:H:104:PRO:CB	2.46	0.45
1:I:221:GLN:O	1:I:225:ILE:HG12	2.16	0.45
1:I:252:ARG:HG2	2:J:238:LEU:HD11	1.97	0.45
2:J:106:ILE:O	2:J:106:ILE:HG22	2.15	0.45
2:L:28:TYR:HD2	2:L:57:LEU:HD23	1.81	0.45
1:O:72:ILE:HB	1:O:75:PHE:HB3	1.97	0.45
2:P:118:VAL:HG13	1:Q:181:ASP:CG	2.41	0.45
1:Q:151:SER:HB3	1:Q:193:TYR:CE2	2.51	0.45
2:R:106:ILE:O	2:R:106:ILE:HG22	2.15	0.45
2:R:127:LEU:O	2:R:131:VAL:HG23	2.15	0.45
2:R:140:ILE:HG12	2:R:173:LEU:HD21	1.97	0.45
1:S:44:GLU:O	1:S:47:HIS:HB2	2.16	0.45
2:T:44:GLY:HA3	1:U:66:GLU:CD	2.41	0.45
2:T:103:LEU:HA	2:T:106:ILE:HD12	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:52:PHE:O	1:W:76:GLN:HG2	2.17	0.45
1:W:68:LEU:O	1:W:69:HIS:CG	2.68	0.45
1:W:278:LEU:C	1:W:279:VAL:HG23	2.42	0.45
2:X:76:VAL:HG21	2:X:120:PRO:HA	1.97	0.45
2:X:140:ILE:HG12	2:X:173:LEU:HD21	1.97	0.45
1:A:52:PHE:O	1:A:76:GLN:HG2	2.16	0.45
1:A:96:SER:N	1:A:99:LEU:HA	2.30	0.45
2:B:47:ASP:HA	2:B:104:PRO:CB	2.46	0.45
2:B:260:LEU:HD22	2:B:268:LEU:HD21	1.98	0.45
1:C:62:THR:CG2	1:C:64:LEU:HD21	2.44	0.45
1:C:151:SER:HB3	1:C:193:TYR:CE2	2.51	0.45
1:E:129:GLU:O	1:E:134:PRO:HD3	2.17	0.45
2:F:90:ILE:CG2	2:F:127:LEU:HD21	2.47	0.45
1:G:221:GLN:O	1:G:225:ILE:HG12	2.16	0.45
1:I:160:VAL:HG12	1:I:184:ILE:HD11	1.99	0.45
2:J:264:GLN:HB2	2:J:266:VAL:HG23	1.97	0.45
1:M:82:ASP:OD1	1:M:84:ARG:HB2	2.17	0.45
2:N:71:SER:HA	2:N:96:PHE:O	2.16	0.45
2:N:90:ILE:CB	2:N:127:LEU:HD21	2.43	0.45
2:P:54:THR:O	2:P:54:THR:HG22	2.14	0.45
2:P:161:PHE:CE1	1:Q:181:ASP:HA	2.52	0.45
1:Q:72:ILE:HB	1:Q:75:PHE:HB3	1.97	0.45
1:Q:278:LEU:C	1:Q:279:VAL:HG23	2.42	0.45
1:Q:281:ASN:O	1:Q:283:GLN:N	2.49	0.45
2:R:47:ASP:HA	2:R:104:PRO:CB	2.46	0.45
1:S:270:ARG:O	2:T:257:ILE:O	2.34	0.45
1:S:278:LEU:C	1:S:279:VAL:HG23	2.42	0.45
1:S:282:LEU:HA	1:S:287:PHE:CE1	2.51	0.45
2:T:90:ILE:CG2	2:T:127:LEU:HD21	2.47	0.45
1:U:104:ILE:HD11	1:U:187:LEU:CD1	2.46	0.45
1:U:129:GLU:O	1:U:134:PRO:HD3	2.17	0.45
2:V:47:ASP:HA	2:V:104:PRO:CB	2.47	0.45
2:V:103:LEU:HA	2:V:106:ILE:HD12	1.97	0.45
1:W:151:SER:HB3	1:W:193:TYR:CE2	2.51	0.45
2:X:28:TYR:HD2	2:X:57:LEU:HD23	1.81	0.45
1:A:129:GLU:O	1:A:134:PRO:HD3	2.16	0.45
2:B:43:ARG:CB	2:B:43:ARG:HG2	2.22	0.45
2:B:103:LEU:HA	2:B:106:ILE:HD12	1.97	0.45
1:C:160:VAL:HG12	1:C:184:ILE:HD11	1.99	0.45
2:D:260:LEU:HD22	2:D:268:LEU:HD21	1.98	0.45
1:E:271:ILE:C	1:E:272:TYR:CD1	2.93	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:281:ASN:O	1:E:283:GLN:N	2.49	0.45
2:F:71:SER:HA	2:F:96:PHE:O	2.16	0.45
2:F:270:LEU:CD1	2:H:260:LEU:CD1	2.92	0.45
1:G:68:LEU:O	1:G:69:HIS:CG	2.68	0.45
1:G:160:VAL:HG12	1:G:184:ILE:HD11	1.99	0.45
2:H:43:ARG:CG	2:H:43:ARG:HB3	2.24	0.45
2:H:71:SER:HA	2:H:96:PHE:O	2.17	0.45
2:J:28:TYR:HD2	2:J:57:LEU:HD23	1.81	0.45
2:J:76:VAL:HG21	2:J:120:PRO:HA	1.97	0.45
1:K:169:THR:HA	1:K:179:LEU:HD12	1.97	0.45
2:L:264:GLN:HB2	2:L:266:VAL:HG23	1.97	0.45
1:M:112:PRO:HG3	1:M:128:TYR:CZ	2.52	0.45
1:O:4:ASN:O	1:O:8:LEU:HD13	2.16	0.45
1:O:218:LYS:NZ	2:P:212:ILE:HD11	2.31	0.45
1:O:218:LYS:HZ1	2:P:212:ILE:HD11	1.82	0.45
1:O:278:LEU:C	1:O:279:VAL:HG23	2.42	0.45
2:P:108:THR:C	1:Q:111:ARG:CB	2.87	0.45
2:P:176:GLY:CA	1:Q:198:GLU:OE2	2.65	0.45
1:Q:99:LEU:HD21	2:R:140:ILE:CG2	2.46	0.45
2:R:49:VAL:HG21	2:R:101:SER:CA	2.43	0.45
1:S:72:ILE:HB	1:S:75:PHE:HB3	1.97	0.45
1:S:112:PRO:HG3	1:S:128:TYR:CZ	2.52	0.45
1:S:129:GLU:O	1:S:134:PRO:HD3	2.17	0.45
1:U:278:LEU:C	1:U:279:VAL:HG23	2.42	0.45
1:A:41:PHE:CD1	1:A:43:VAL:CG2	3.00	0.45
1:A:100:GLN:HB2	2:B:184:GLU:CG	2.46	0.45
1:A:112:PRO:HG3	1:A:128:TYR:CZ	2.52	0.45
1:A:169:THR:HA	1:A:179:LEU:HD12	1.97	0.45
1:A:221:GLN:O	1:A:225:ILE:HG12	2.16	0.45
1:C:130:GLU:O	1:C:134:PRO:HG2	2.17	0.45
2:D:76:VAL:HG21	2:D:120:PRO:HA	1.98	0.45
2:D:103:LEU:HA	2:D:106:ILE:HD12	1.97	0.45
1:E:282:LEU:HA	1:E:287:PHE:CE1	2.51	0.45
1:G:206:GLU:HA	1:G:209:ARG:HB3	1.99	0.45
1:G:278:LEU:C	1:G:279:VAL:HG23	2.42	0.45
1:I:206:GLU:HA	1:I:209:ARG:HB3	1.99	0.45
2:J:54:THR:O	2:J:54:THR:HG22	2.14	0.45
1:K:264:ILE:HD13	1:K:271:ILE:HD11	1.96	0.45
2:L:182:ALA:CB	1:M:205:GLN:HB3	2.46	0.45
1:M:94:THR:HG21	1:M:145:VAL:CB	2.44	0.45
1:M:104:ILE:HD11	1:M:187:LEU:CD1	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:94:THR:HG21	1:O:145:VAL:CB	2.44	0.45
2:P:81:GLY:H	1:Q:154:ILE:HG22	1.81	0.45
2:P:128:LYS:HZ1	1:Q:157:ARG:NH1	2.13	0.45
2:V:127:LEU:O	2:V:131:VAL:HG23	2.15	0.45
2:V:258:THR:C	1:W:273:LEU:H	2.25	0.45
2:X:71:SER:HA	2:X:96:PHE:O	2.16	0.45
1:A:151:SER:HB3	1:A:193:TYR:CE2	2.51	0.45
2:B:58:ILE:O	2:B:61:VAL:HG12	2.17	0.45
2:D:47:ASP:HA	2:D:104:PRO:CB	2.46	0.45
2:D:71:SER:HA	2:D:96:PHE:O	2.16	0.45
1:E:160:VAL:HG12	1:E:184:ILE:HD11	1.99	0.45
1:E:206:GLU:HA	1:E:209:ARG:HB3	1.99	0.45
2:H:58:ILE:O	2:H:61:VAL:HG12	2.17	0.45
1:I:104:ILE:HD11	1:I:187:LEU:CD1	2.46	0.45
1:I:278:LEU:C	1:I:279:VAL:HG23	2.42	0.45
1:K:41:PHE:CD1	1:K:43:VAL:CG2	3.00	0.45
1:K:82:ASP:OD1	1:K:84:ARG:HB2	2.17	0.45
1:K:104:ILE:HD11	1:K:187:LEU:CD1	2.46	0.45
1:K:221:GLN:O	1:K:225:ILE:HG12	2.16	0.45
1:K:282:LEU:HA	1:K:287:PHE:CE1	2.51	0.45
2:L:47:ASP:HA	2:L:104:PRO:CB	2.46	0.45
2:L:103:LEU:HA	2:L:106:ILE:HD12	1.97	0.45
1:M:129:GLU:O	1:M:134:PRO:HD3	2.17	0.45
1:M:160:VAL:HG12	1:M:184:ILE:HD11	1.99	0.45
1:M:169:THR:HA	1:M:179:LEU:HD12	1.97	0.45
1:M:175:PHE:CE2	2:N:167:ASP:HB3	2.50	0.45
1:M:206:GLU:HA	1:M:209:ARG:HB3	1.99	0.45
2:N:106:ILE:HG22	2:N:106:ILE:O	2.15	0.45
1:O:221:GLN:O	1:O:225:ILE:HG12	2.16	0.45
1:Q:4:ASN:O	1:Q:8:LEU:HD13	2.16	0.45
1:Q:129:GLU:O	1:Q:134:PRO:HD3	2.17	0.45
1:Q:260:ILE:HG13	2:R:249:TYR:CE1	2.52	0.45
2:R:28:TYR:HD2	2:R:57:LEU:HD23	1.81	0.45
1:S:41:PHE:CD1	1:S:43:VAL:CG2	3.00	0.45
1:S:238:LEU:C	2:T:235:LEU:HD22	2.41	0.45
1:U:299:LYS:NZ	1:W:292:ASP:OD1	2.50	0.45
2:B:96:PHE:O	2:B:96:PHE:CD2	2.70	0.45
1:C:112:PRO:HG3	1:C:128:TYR:CZ	2.52	0.45
1:C:169:THR:HA	1:C:179:LEU:HD12	1.97	0.45
1:C:206:GLU:HA	1:C:209:ARG:HB3	1.99	0.45
2:D:58:ILE:O	2:D:61:VAL:HG12	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:90:ILE:CG2	2:D:127:LEU:HD21	2.47	0.45
2:D:197:ARG:CA	1:E:219:GLN:NE2	2.71	0.45
1:E:82:ASP:OD1	1:E:84:ARG:HB2	2.17	0.45
2:F:241:LEU:CD2	1:I:283:GLN:HE21	2.14	0.45
1:G:72:ILE:HB	1:G:75:PHE:HB3	1.97	0.45
1:G:96:SER:N	1:G:99:LEU:HA	2.31	0.45
1:G:282:LEU:HA	1:G:287:PHE:CE1	2.51	0.45
1:I:239:GLY:O	2:J:231:ALA:O	2.34	0.45
2:J:96:PHE:O	2:J:96:PHE:CD2	2.70	0.45
1:K:129:GLU:O	1:K:134:PRO:HD3	2.17	0.45
1:K:211:GLN:O	1:K:214:VAL:HB	2.16	0.45
2:L:43:ARG:HA	1:M:66:GLU:C	2.42	0.45
2:L:49:VAL:HG21	2:L:101:SER:CA	2.43	0.45
1:M:41:PHE:CD1	1:M:43:VAL:CG2	3.00	0.45
1:M:278:LEU:C	1:M:279:VAL:HG23	2.42	0.45
1:M:281:ASN:O	1:M:283:GLN:N	2.49	0.45
1:M:282:LEU:HA	1:M:287:PHE:CE1	2.51	0.45
2:N:47:ASP:HA	2:N:104:PRO:CB	2.46	0.45
1:O:41:PHE:CD1	1:O:43:VAL:CG2	3.00	0.45
1:O:133:LEU:O	1:O:135:SER:N	2.50	0.45
2:P:41:ARG:HD2	1:Q:42:THR:C	2.40	0.45
2:P:41:ARG:CD	1:Q:43:VAL:N	2.62	0.45
2:P:71:SER:HA	2:P:96:PHE:O	2.16	0.45
2:R:90:ILE:CG2	2:R:127:LEU:HD21	2.47	0.45
1:S:151:SER:HB3	1:S:193:TYR:CE2	2.51	0.45
1:S:268:GLN:O	2:T:255:ARG:O	2.34	0.45
2:T:35:ARG:HD3	2:T:52:GLU:H	1.82	0.45
2:T:58:ILE:O	2:T:61:VAL:HG12	2.17	0.45
1:U:41:PHE:CD1	1:U:43:VAL:CG2	3.00	0.45
1:U:169:THR:HA	1:U:179:LEU:HD12	1.97	0.45
1:U:282:LEU:HA	1:U:287:PHE:CE1	2.51	0.45
2:V:218:SER:CB	1:W:237:MET:SD	3.04	0.45
1:W:96:SER:N	1:W:99:LEU:HA	2.31	0.45
1:W:112:PRO:CB	1:W:120:MET:HE2	2.47	0.45
1:W:130:GLU:O	1:W:134:PRO:HG2	2.17	0.45
2:X:134:PHE:HB2	2:X:139:LEU:CD2	2.43	0.45
1:A:82:ASP:OD1	1:A:84:ARG:HB2	2.17	0.45
1:A:206:GLU:HA	1:A:209:ARG:HB3	1.99	0.45
2:B:96:PHE:CE2	2:B:115:ASP:HB3	2.52	0.45
2:B:270:LEU:H	2:D:269:GLN:CB	2.29	0.45
2:D:85:LEU:HD22	1:E:155:THR:CB	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:96:PHE:O	2:D:96:PHE:CD2	2.70	0.45
2:F:58:ILE:O	2:F:61:VAL:HG12	2.17	0.45
2:F:260:LEU:CD1	2:F:268:LEU:HD21	2.45	0.45
1:G:94:THR:HG21	1:G:145:VAL:CB	2.44	0.45
1:G:256:ALA:O	1:G:257:ALA:C	2.60	0.45
2:H:260:LEU:HD22	2:H:268:LEU:HD21	1.98	0.45
1:I:112:PRO:HG3	1:I:128:TYR:CZ	2.52	0.45
2:J:71:SER:HA	2:J:96:PHE:O	2.16	0.45
1:K:112:PRO:CB	1:K:120:MET:HE2	2.47	0.45
1:O:82:ASP:OD1	1:O:84:ARG:HB2	2.17	0.45
1:O:129:GLU:O	1:O:134:PRO:HD3	2.17	0.45
1:O:282:LEU:HA	1:O:287:PHE:CE1	2.51	0.45
2:P:58:ILE:O	2:P:61:VAL:HG12	2.17	0.45
2:P:96:PHE:CE2	2:P:115:ASP:HB3	2.52	0.45
1:Q:52:PHE:O	1:Q:76:GLN:HG2	2.16	0.45
1:Q:133:LEU:O	1:Q:135:SER:N	2.50	0.45
1:Q:140:VAL:HG13	1:Q:167:GLU:HB2	1.98	0.45
2:R:241:LEU:HD11	1:U:283:GLN:HE22	1.82	0.45
2:R:260:LEU:HD22	2:R:268:LEU:HD21	1.98	0.45
1:S:206:GLU:HA	1:S:209:ARG:HB3	1.99	0.45
1:S:256:ALA:O	1:S:257:ALA:C	2.60	0.45
2:T:268:LEU:C	2:T:269:GLN:OE1	2.60	0.45
1:U:160:VAL:HG12	1:U:184:ILE:HD11	1.99	0.45
2:V:43:ARG:CG	2:V:43:ARG:HB3	2.24	0.45
2:V:58:ILE:O	2:V:61:VAL:HG12	2.17	0.45
2:V:96:PHE:CD2	2:V:96:PHE:O	2.70	0.45
1:W:129:GLU:O	1:W:134:PRO:HD3	2.17	0.45
1:W:256:ALA:O	1:W:257:ALA:C	2.60	0.45
1:A:112:PRO:CB	1:A:120:MET:HE2	2.47	0.45
2:B:270:LEU:HD11	2:D:260:LEU:HD11	1.99	0.45
1:C:133:LEU:O	1:C:135:SER:N	2.50	0.45
1:C:140:VAL:HG13	1:C:167:GLU:HB2	1.98	0.45
1:E:104:ILE:HD11	1:E:187:LEU:CD1	2.46	0.45
2:F:268:LEU:C	2:F:269:GLN:OE1	2.60	0.45
2:H:91:THR:HG22	2:H:92:LEU:N	2.32	0.45
1:I:82:ASP:OD1	1:I:84:ARG:HB2	2.17	0.45
2:J:91:THR:HG22	2:J:92:LEU:N	2.32	0.45
1:K:52:PHE:O	1:K:76:GLN:HG2	2.16	0.45
2:L:88:VAL:HG22	2:L:175:PHE:HD1	1.82	0.45
1:M:140:VAL:HG13	1:M:167:GLU:HB2	1.98	0.45
1:O:104:ILE:HD11	1:O:187:LEU:CD1	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:35:ARG:HD3	2:P:52:GLU:H	1.82	0.45
2:P:85:LEU:HD13	1:Q:197:VAL:CG1	2.47	0.45
1:Q:206:GLU:HA	1:Q:209:ARG:HB3	1.99	0.45
1:Q:239:GLY:HA2	2:R:235:LEU:CB	2.36	0.45
1:Q:239:GLY:C	1:Q:241:ALA:H	2.25	0.45
1:Q:282:LEU:HA	1:Q:287:PHE:CE1	2.51	0.45
2:R:58:ILE:O	2:R:61:VAL:HG12	2.17	0.45
2:R:88:VAL:HG22	2:R:175:PHE:HD1	1.82	0.45
2:R:270:LEU:HD11	2:T:260:LEU:HD21	1.99	0.45
1:S:160:VAL:HG12	1:S:184:ILE:HD11	1.99	0.45
1:S:260:ILE:CB	2:T:248:ALA:HB3	2.46	0.45
1:S:274:THR:HG22	2:T:261:PRO:CD	2.46	0.45
2:T:134:PHE:HB2	2:T:139:LEU:CD2	2.43	0.45
1:U:82:ASP:OD1	1:U:84:ARG:HB2	2.17	0.45
1:U:207:ALA:CB	2:V:201:GLU:HB3	2.47	0.45
2:V:90:ILE:CG2	2:V:127:LEU:HD21	2.47	0.45
2:V:258:THR:CB	1:W:272:TYR:HA	2.46	0.45
1:W:206:GLU:HA	1:W:209:ARG:HB3	1.99	0.45
1:A:110:SER:OG	1:A:133:LEU:HD11	2.17	0.45
1:A:140:VAL:HG13	1:A:167:GLU:HB2	1.98	0.45
1:A:278:LEU:C	1:A:279:VAL:HG23	2.42	0.45
2:B:268:LEU:C	2:B:269:GLN:OE1	2.60	0.45
1:C:112:PRO:CB	1:C:120:MET:HE2	2.47	0.45
1:E:41:PHE:CD1	1:E:43:VAL:CG2	3.00	0.45
1:E:52:PHE:O	1:E:76:GLN:HG2	2.16	0.45
1:E:221:GLN:O	1:E:225:ILE:HG12	2.16	0.45
1:E:233:GLU:O	1:E:236:LYS:HB2	2.17	0.45
1:G:129:GLU:O	1:G:134:PRO:HD3	2.16	0.45
1:G:239:GLY:C	1:G:241:ALA:H	2.25	0.45
2:H:268:LEU:C	2:J:267:LEU:O	2.59	0.45
1:I:112:PRO:CB	1:I:120:MET:HE2	2.47	0.45
1:I:281:ASN:O	1:I:283:GLN:N	2.49	0.45
1:I:282:LEU:HA	1:I:287:PHE:CE1	2.51	0.45
1:K:112:PRO:HG3	1:K:128:TYR:CZ	2.52	0.45
1:K:130:GLU:O	1:K:134:PRO:HG2	2.17	0.45
1:K:206:GLU:HA	1:K:209:ARG:HB3	1.99	0.45
1:K:250:LYS:HE2	1:M:288:THR:HG22	1.99	0.45
2:L:35:ARG:HD3	2:L:52:GLU:H	1.82	0.45
1:M:130:GLU:O	1:M:134:PRO:HG2	2.17	0.45
1:M:133:LEU:O	1:M:135:SER:N	2.50	0.45
2:N:103:LEU:HA	2:N:106:ILE:HD12	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:110:SER:OG	1:O:133:LEU:HD11	2.17	0.45
1:O:112:PRO:CB	1:O:120:MET:HE2	2.47	0.45
1:O:112:PRO:HG3	1:O:128:TYR:CZ	2.52	0.45
2:P:85:LEU:HD13	1:Q:197:VAL:HG11	1.99	0.45
2:P:260:LEU:HD22	2:P:268:LEU:HD21	1.98	0.45
1:Q:41:PHE:CD1	1:Q:43:VAL:CG2	3.00	0.45
1:Q:242:LEU:HD13	2:R:238:LEU:CD2	2.47	0.45
1:S:110:SER:OG	1:S:133:LEU:HD11	2.17	0.45
1:S:133:LEU:O	1:S:135:SER:N	2.50	0.45
1:U:112:PRO:HG3	1:U:128:TYR:CZ	2.52	0.45
1:U:133:LEU:O	1:U:135:SER:N	2.50	0.45
1:U:140:VAL:HG13	1:U:167:GLU:HB2	1.98	0.45
1:U:221:GLN:O	1:U:225:ILE:HG12	2.16	0.45
1:W:41:PHE:CD1	1:W:43:VAL:CG2	3.00	0.45
1:W:110:SER:OG	1:W:133:LEU:HD11	2.17	0.45
1:W:133:LEU:O	1:W:135:SER:N	2.50	0.45
1:A:130:GLU:O	1:A:134:PRO:HG2	2.17	0.45
1:A:160:VAL:HG12	1:A:184:ILE:HD11	1.99	0.45
2:B:76:VAL:HG21	2:B:120:PRO:HA	1.97	0.45
2:B:90:ILE:CG2	2:B:127:LEU:HD21	2.47	0.45
1:C:256:ALA:O	1:C:257:ALA:C	2.60	0.45
2:D:251:LEU:CD2	1:E:264:ILE:C	2.90	0.45
2:D:268:LEU:CD1	1:E:272:TYR:CD2	2.99	0.45
1:E:62:THR:HG22	1:E:64:LEU:CD2	2.47	0.45
2:F:47:ASP:HA	2:F:104:PRO:CB	2.47	0.45
2:F:61:VAL:HG13	2:F:62:GLN:HG3	1.99	0.45
2:F:88:VAL:HG22	2:F:175:PHE:HD1	1.82	0.45
1:G:112:PRO:HG3	1:G:128:TYR:CZ	2.52	0.45
1:G:135:SER:CB	2:H:171:THR:CG2	2.94	0.45
1:G:140:VAL:HG13	1:G:167:GLU:HB2	1.98	0.45
1:G:253:LYS:CE	1:I:291:SER:HB3	2.46	0.45
1:I:110:SER:OG	1:I:133:LEU:HD11	2.17	0.45
2:J:58:ILE:O	2:J:61:VAL:HG12	2.17	0.45
2:J:96:PHE:CE2	2:J:115:ASP:HB3	2.52	0.45
1:K:256:ALA:O	1:K:257:ALA:C	2.60	0.45
2:L:96:PHE:CD2	2:L:96:PHE:O	2.70	0.45
1:M:4:ASN:O	1:M:8:LEU:HD13	2.16	0.45
1:M:193:TYR:CD1	2:N:188:VAL:CG2	3.00	0.45
1:M:221:GLN:NE2	2:N:212:ILE:O	2.50	0.45
2:N:96:PHE:CE2	2:N:115:ASP:HB3	2.52	0.45
1:O:281:ASN:O	1:O:283:GLN:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:157:ARG:HH21	1:Q:165:ARG:NH2	2.15	0.45
1:Q:82:ASP:OD1	1:Q:84:ARG:HB2	2.17	0.45
1:Q:233:GLU:O	1:Q:236:LYS:HB2	2.17	0.45
2:V:35:ARG:HD3	2:V:52:GLU:H	1.82	0.45
2:X:90:ILE:CG2	2:X:127:LEU:HD21	2.47	0.45
2:X:96:PHE:CE2	2:X:115:ASP:HB3	2.52	0.45
2:B:35:ARG:HD3	2:B:52:GLU:H	1.82	0.44
2:B:61:VAL:HG13	2:B:62:GLN:HG3	1.99	0.44
2:B:149:GLN:O	2:B:152:ASP:OD1	2.36	0.44
1:C:120:MET:O	1:C:120:MET:SD	2.76	0.44
2:D:149:GLN:O	2:D:152:ASP:OD1	2.36	0.44
2:D:244:ALA:HA	2:D:247:ILE:HD12	2.00	0.44
1:E:110:SER:OG	1:E:133:LEU:HD11	2.17	0.44
1:E:112:PRO:HG3	1:E:128:TYR:CZ	2.52	0.44
1:E:133:LEU:O	1:E:135:SER:N	2.50	0.44
2:F:33:GLY:O	2:F:70:ARG:N	2.51	0.44
1:G:233:GLU:O	1:G:236:LYS:HB2	2.17	0.44
2:H:96:PHE:O	2:H:96:PHE:CD2	2.70	0.44
2:J:33:GLY:O	2:J:70:ARG:N	2.50	0.44
2:J:47:ASP:HA	2:J:104:PRO:CB	2.46	0.44
2:J:260:LEU:HD13	2:J:268:LEU:CD2	2.44	0.44
1:K:133:LEU:O	1:K:135:SER:N	2.50	0.44
1:M:120:MET:SD	1:M:120:MET:O	2.75	0.44
1:M:135:SER:CB	2:N:93:ARG:HG2	2.41	0.44
2:N:76:VAL:HG21	2:N:120:PRO:HA	1.98	0.44
2:N:134:PHE:HB2	2:N:139:LEU:CD2	2.44	0.44
1:O:124:LEU:HD11	1:O:175:PHE:CB	2.47	0.44
2:P:96:PHE:O	2:P:96:PHE:CD2	2.70	0.44
1:Q:120:MET:O	1:Q:120:MET:SD	2.76	0.44
2:R:251:LEU:HD12	1:S:278:LEU:HD21	1.97	0.44
1:S:82:ASP:OD1	1:S:84:ARG:HB2	2.17	0.44
1:S:112:PRO:CB	1:S:120:MET:HE2	2.47	0.44
1:S:274:THR:CG2	2:T:260:LEU:C	2.91	0.44
1:U:120:MET:SD	1:U:120:MET:O	2.76	0.44
2:V:96:PHE:CE2	2:V:115:ASP:HB3	2.52	0.44
2:V:149:GLN:O	2:V:152:ASP:OD1	2.36	0.44
2:V:268:LEU:C	2:V:269:GLN:OE1	2.60	0.44
1:W:82:ASP:OD1	1:W:84:ARG:HB2	2.17	0.44
1:W:112:PRO:HG3	1:W:128:TYR:CZ	2.52	0.44
1:A:120:MET:O	1:A:120:MET:SD	2.75	0.44
1:A:233:GLU:O	1:A:236:LYS:HB2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:33:GLY:O	2:B:70:ARG:N	2.51	0.44
1:C:278:LEU:C	1:C:279:VAL:HG23	2.42	0.44
2:D:240:LYS:HE3	1:E:254:ILE:HG12	1.97	0.44
1:E:112:PRO:CB	1:E:120:MET:HE2	2.47	0.44
1:E:256:ALA:O	1:E:257:ALA:C	2.60	0.44
2:F:244:ALA:HA	2:F:247:ILE:HD12	1.99	0.44
1:G:110:SER:OG	1:G:133:LEU:HD11	2.17	0.44
1:G:117:LEU:CD2	1:G:120:MET:HE3	2.48	0.44
1:G:130:GLU:O	1:G:134:PRO:HG2	2.17	0.44
1:G:264:ILE:HD11	1:I:278:LEU:HD13	1.98	0.44
2:H:85:LEU:CD2	1:I:154:ILE:HG22	2.47	0.44
1:I:120:MET:O	1:I:120:MET:SD	2.76	0.44
1:I:273:LEU:O	2:J:261:PRO:HG3	2.16	0.44
1:K:110:SER:OG	1:K:133:LEU:HD11	2.17	0.44
2:L:61:VAL:HG13	2:L:62:GLN:HG3	1.99	0.44
2:L:90:ILE:CG2	2:L:127:LEU:HD21	2.47	0.44
2:L:268:LEU:C	2:L:269:GLN:OE1	2.60	0.44
2:N:33:GLY:O	2:N:70:ARG:N	2.51	0.44
2:N:260:LEU:CD1	2:N:268:LEU:HD21	2.45	0.44
2:N:268:LEU:C	2:N:269:GLN:OE1	2.60	0.44
1:O:256:ALA:CB	2:P:245:GLU:OE2	2.64	0.44
1:Q:62:THR:HG22	1:Q:64:LEU:CD2	2.47	0.44
1:S:120:MET:O	1:S:120:MET:SD	2.76	0.44
1:S:130:GLU:O	1:S:134:PRO:HG2	2.17	0.44
2:T:221:ALA:HB2	1:U:248:TYR:CB	2.47	0.44
1:U:52:PHE:O	1:U:76:GLN:HG2	2.16	0.44
1:U:151:SER:HB3	1:U:193:TYR:CE2	2.51	0.44
1:U:256:ALA:O	1:U:257:ALA:C	2.60	0.44
1:W:4:ASN:O	1:W:8:LEU:HD13	2.16	0.44
1:W:160:VAL:HG12	1:W:184:ILE:HD11	1.99	0.44
2:X:88:VAL:HG22	2:X:175:PHE:HD1	1.82	0.44
2:X:96:PHE:O	2:X:96:PHE:CD2	2.70	0.44
2:X:260:LEU:HD22	2:X:268:LEU:HD21	1.98	0.44
1:A:256:ALA:O	1:A:257:ALA:C	2.60	0.44
1:C:122:GLN:O	2:D:97:ARG:CZ	2.66	0.44
2:D:35:ARG:HD3	2:D:52:GLU:H	1.82	0.44
2:D:96:PHE:CE2	2:D:115:ASP:HB3	2.52	0.44
2:F:96:PHE:O	2:F:96:PHE:CD2	2.70	0.44
2:F:134:PHE:HB2	2:F:139:LEU:CD2	2.43	0.44
1:I:133:LEU:O	1:I:135:SER:N	2.50	0.44
2:J:35:ARG:HD3	2:J:52:GLU:H	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:49:VAL:HG21	2:J:101:SER:CA	2.43	0.44
2:J:244:ALA:HA	2:J:247:ILE:HD12	2.00	0.44
1:K:233:GLU:O	1:K:236:LYS:HB2	2.17	0.44
1:M:50:ILE:HA	1:M:64:LEU:CD1	2.48	0.44
1:M:52:PHE:O	1:M:76:GLN:HG2	2.16	0.44
1:M:131:ARG:CG	2:N:73:PRO:HD3	2.44	0.44
1:M:239:GLY:C	1:M:241:ALA:H	2.25	0.44
2:N:58:ILE:O	2:N:61:VAL:HG12	2.17	0.44
2:N:244:ALA:HA	2:N:247:ILE:HD12	2.00	0.44
1:O:52:PHE:O	1:O:76:GLN:HG2	2.16	0.44
1:O:140:VAL:HG13	1:O:167:GLU:HB2	1.98	0.44
2:P:47:ASP:HA	2:P:104:PRO:CB	2.46	0.44
2:P:90:ILE:CG2	2:P:127:LEU:HD21	2.47	0.44
2:P:91:THR:HG22	2:P:92:LEU:N	2.32	0.44
2:P:185:ALA:CB	1:Q:212:PHE:CZ	2.96	0.44
2:P:260:LEU:CD1	2:P:268:LEU:HD21	2.45	0.44
1:Q:110:SER:OG	1:Q:133:LEU:HD11	2.17	0.44
1:Q:124:LEU:HD11	1:Q:175:PHE:CB	2.48	0.44
1:Q:160:VAL:HG12	1:Q:184:ILE:HD11	1.99	0.44
2:R:33:GLY:O	2:R:70:ARG:N	2.51	0.44
2:R:71:SER:HA	2:R:96:PHE:O	2.16	0.44
1:S:52:PHE:O	1:S:76:GLN:HG2	2.16	0.44
2:T:71:SER:HA	2:T:96:PHE:O	2.17	0.44
1:U:110:SER:OG	1:U:133:LEU:HD11	2.17	0.44
1:W:221:GLN:OE1	2:X:216:GLY:HA3	2.17	0.44
1:W:239:GLY:C	1:W:241:ALA:H	2.25	0.44
2:X:35:ARG:HD3	2:X:52:GLU:H	1.82	0.44
1:A:117:LEU:CD2	1:A:120:MET:HE3	2.48	0.44
2:B:268:LEU:HD12	2:D:260:LEU:HD23	2.00	0.44
1:C:10:GLY:O	2:D:6:PHE:CE1	2.71	0.44
1:C:41:PHE:CD1	1:C:43:VAL:CG2	3.00	0.44
1:C:82:ASP:OD1	1:C:84:ARG:HB2	2.17	0.44
1:C:124:LEU:HD11	1:C:175:PHE:CB	2.47	0.44
1:C:129:GLU:O	1:C:134:PRO:HD3	2.17	0.44
1:C:239:GLY:C	1:C:241:ALA:H	2.25	0.44
2:D:33:GLY:O	2:D:70:ARG:N	2.51	0.44
2:D:258:THR:CG2	2:D:259:TYR:N	2.80	0.44
1:E:130:GLU:O	1:E:134:PRO:HG2	2.17	0.44
2:F:260:LEU:HD22	2:F:268:LEU:HD21	1.98	0.44
2:F:267:LEU:HG	2:H:265:SER:O	2.18	0.44
1:G:133:LEU:O	1:G:135:SER:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:61:VAL:HG13	2:H:62:GLN:HG3	1.99	0.44
2:H:194:GLU:HA	2:H:197:ARG:HB3	2.00	0.44
1:I:129:GLU:O	1:I:134:PRO:HD3	2.17	0.44
1:I:260:ILE:HG12	2:J:244:ALA:HB1	1.99	0.44
2:J:134:PHE:HB2	2:J:139:LEU:CD2	2.43	0.44
2:J:268:LEU:C	2:J:269:GLN:OE1	2.60	0.44
1:K:120:MET:O	1:K:120:MET:SD	2.75	0.44
1:K:236:LYS:HE3	2:L:227:SER:CA	2.48	0.44
1:K:236:LYS:CE	2:L:227:SER:CA	2.94	0.44
1:K:239:GLY:C	1:K:241:ALA:H	2.25	0.44
1:K:274:THR:HG1	1:K:277:ASN:CG	2.23	0.44
1:K:274:THR:CG2	2:L:261:PRO:HB3	2.48	0.44
2:L:71:SER:HA	2:L:96:PHE:O	2.17	0.44
2:L:149:GLN:O	2:L:152:ASP:OD1	2.36	0.44
1:M:110:SER:OG	1:M:133:LEU:HD11	2.17	0.44
2:N:194:GLU:HA	2:N:197:ARG:HB3	2.00	0.44
1:O:50:ILE:HA	1:O:64:LEU:CD1	2.48	0.44
1:O:160:VAL:HG12	1:O:184:ILE:HD11	1.99	0.44
2:P:61:VAL:HG13	2:P:62:GLN:HG3	1.99	0.44
2:P:118:VAL:CG2	1:Q:109:LEU:CD2	2.92	0.44
2:P:121:SER:OG	1:Q:184:ILE:CA	2.65	0.44
2:P:244:ALA:HA	2:P:247:ILE:HD12	2.00	0.44
2:P:260:LEU:HD13	2:P:268:LEU:CD2	2.45	0.44
2:T:61:VAL:HG13	2:T:62:GLN:HG3	1.99	0.44
2:T:84:ASP:H	2:T:135:ASP:HA	1.83	0.44
2:T:91:THR:HG22	2:T:92:LEU:N	2.32	0.44
1:U:239:GLY:C	1:U:241:ALA:H	2.25	0.44
2:X:149:GLN:O	2:X:152:ASP:OD1	2.36	0.44
1:A:117:LEU:HD23	1:A:120:MET:HE3	2.00	0.44
1:A:133:LEU:O	1:A:135:SER:N	2.50	0.44
1:A:203:ALA:C	2:B:198:PHE:HB3	2.42	0.44
2:B:84:ASP:H	2:B:135:ASP:HA	1.83	0.44
2:B:240:LYS:HE2	1:E:282:LEU:HD22	1.99	0.44
1:C:87:PRO:HA	1:C:108:VAL:O	2.18	0.44
2:D:90:ILE:HD12	2:D:131:VAL:HG21	2.00	0.44
2:D:268:LEU:C	2:D:269:GLN:OE1	2.60	0.44
1:E:140:VAL:HG13	1:E:167:GLU:HB2	1.98	0.44
2:F:90:ILE:HD12	2:F:131:VAL:HG21	2.00	0.44
2:F:96:PHE:CE2	2:F:115:ASP:HB3	2.52	0.44
1:G:41:PHE:CD1	1:G:43:VAL:CG2	3.00	0.44
2:H:35:ARG:HD3	2:H:52:GLU:H	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:52:PHE:O	1:I:76:GLN:HG2	2.16	0.44
1:K:124:LEU:HD11	1:K:175:PHE:CB	2.47	0.44
1:K:141:LEU:O	1:K:145:VAL:HG23	2.18	0.44
2:L:96:PHE:CE2	2:L:115:ASP:HB3	2.52	0.44
1:M:112:PRO:CB	1:M:120:MET:HE2	2.47	0.44
1:M:214:VAL:HG23	2:N:205:GLN:HB3	2.00	0.44
1:O:87:PRO:HA	1:O:108:VAL:O	2.18	0.44
1:O:130:GLU:O	1:O:134:PRO:HG2	2.17	0.44
2:P:179:PHE:HD2	1:Q:201:GLN:HB3	1.78	0.44
2:P:268:LEU:C	2:P:269:GLN:OE1	2.60	0.44
1:Q:112:PRO:CB	1:Q:120:MET:HE2	2.47	0.44
1:Q:112:PRO:HG3	1:Q:128:TYR:CZ	2.52	0.44
1:Q:117:LEU:CD2	1:Q:120:MET:HE3	2.48	0.44
2:R:43:ARG:CG	2:R:43:ARG:HB2	2.24	0.44
2:R:134:PHE:HB2	2:R:139:LEU:CD2	2.44	0.44
1:S:243:SER:CA	2:T:234:GLY:CA	2.93	0.44
2:T:33:GLY:O	2:T:70:ARG:N	2.51	0.44
2:T:244:ALA:HA	2:T:247:ILE:HD12	2.00	0.44
1:U:112:PRO:CB	1:U:120:MET:HE2	2.47	0.44
1:U:233:GLU:O	1:U:236:LYS:HB2	2.17	0.44
2:V:84:ASP:H	2:V:135:ASP:HA	1.83	0.44
2:V:240:LYS:CG	1:W:254:ILE:HD11	2.46	0.44
2:X:90:ILE:HD12	2:X:131:VAL:HG21	2.00	0.44
2:X:244:ALA:HA	2:X:247:ILE:HD12	2.00	0.44
1:A:43:VAL:HG11	2:X:43:ARG:HA	2.00	0.44
1:C:253:LYS:HB3	1:E:279:VAL:CG2	2.46	0.44
2:D:91:THR:HG22	2:D:92:LEU:N	2.32	0.44
1:E:120:MET:SD	1:E:120:MET:O	2.76	0.44
2:F:35:ARG:HD3	2:F:52:GLU:H	1.82	0.44
1:G:82:ASP:OD1	1:G:84:ARG:HB2	2.17	0.44
2:H:33:GLY:O	2:H:70:ARG:N	2.51	0.44
2:H:268:LEU:C	2:H:269:GLN:OE1	2.60	0.44
2:H:270:LEU:H	2:J:269:GLN:HB2	1.83	0.44
1:I:124:LEU:HD11	1:I:175:PHE:CB	2.48	0.44
1:I:197:VAL:O	1:I:200:LYS:HG2	2.18	0.44
1:K:253:LYS:HD2	1:M:287:PHE:HZ	1.73	0.44
1:M:125:GLY:N	2:N:70:ARG:HG2	2.33	0.44
1:M:142:LYS:HE3	2:N:173:LEU:CG	2.47	0.44
2:N:43:ARG:CG	2:N:43:ARG:HB2	2.24	0.44
2:N:61:VAL:HG13	2:N:62:GLN:HG3	1.99	0.44
1:O:117:LEU:CD2	1:O:120:MET:HE3	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:259:TYR:HH	1:Q:280:LEU:H	1.65	0.44
1:Q:6:LYS:NZ	2:R:6:PHE:HA	2.33	0.44
2:R:194:GLU:HA	2:R:197:ARG:HB3	2.00	0.44
2:R:240:LYS:C	2:R:241:LEU:HG	2.43	0.44
1:S:62:THR:HG22	1:S:64:LEU:CD2	2.47	0.44
1:S:87:PRO:HA	1:S:108:VAL:O	2.18	0.44
1:S:239:GLY:HA2	2:T:235:LEU:CB	2.47	0.44
2:T:28:TYR:HD2	2:T:57:LEU:HD23	1.81	0.44
2:T:96:PHE:O	2:T:96:PHE:CD2	2.70	0.44
2:T:149:GLN:O	2:T:152:ASP:OD1	2.36	0.44
1:U:206:GLU:HA	1:U:209:ARG:HB3	1.99	0.44
1:W:120:MET:SD	1:W:120:MET:O	2.76	0.44
2:X:61:VAL:HG13	2:X:62:GLN:HG3	1.99	0.44
2:X:268:LEU:C	2:X:269:GLN:OE1	2.60	0.44
1:A:62:THR:HG22	1:A:64:LEU:CD2	2.47	0.44
1:A:94:THR:HG21	1:A:145:VAL:CB	2.44	0.44
2:B:71:SER:HA	2:B:96:PHE:O	2.16	0.44
2:B:90:ILE:HD12	2:B:131:VAL:HG21	2.00	0.44
2:B:194:GLU:HA	2:B:197:ARG:HB3	2.00	0.44
1:C:117:LEU:HD23	1:C:120:MET:HE3	2.00	0.44
2:D:49:VAL:HG21	2:D:101:SER:CA	2.43	0.44
2:D:224:ILE:CG2	1:E:251:LEU:HG	2.48	0.44
1:G:50:ILE:HA	1:G:64:LEU:CD1	2.48	0.44
1:G:112:PRO:CB	1:G:120:MET:HE2	2.47	0.44
1:G:217:ALA:HB1	2:H:212:ILE:HG21	1.99	0.44
2:H:84:ASP:H	2:H:135:ASP:HA	1.83	0.44
2:H:88:VAL:HG22	2:H:175:PHE:HD1	1.82	0.44
2:H:90:ILE:CG2	2:H:127:LEU:HD21	2.47	0.44
2:H:96:PHE:CE2	2:H:115:ASP:HB3	2.52	0.44
2:J:149:GLN:O	2:J:152:ASP:OD1	2.36	0.44
1:K:197:VAL:O	1:K:200:LYS:HG2	2.18	0.44
1:M:141:LEU:O	1:M:145:VAL:HG23	2.18	0.44
1:M:233:GLU:O	1:M:236:LYS:HB2	2.17	0.44
2:N:90:ILE:CG2	2:N:127:LEU:HD21	2.47	0.44
1:O:81:TYR:OH	1:O:121:TYR:HB2	2.18	0.44
1:O:141:LEU:O	1:O:145:VAL:HG23	2.18	0.44
1:O:206:GLU:HA	1:O:209:ARG:HB3	1.99	0.44
2:P:134:PHE:HB2	2:P:139:LEU:CD2	2.44	0.44
1:Q:197:VAL:O	1:Q:200:LYS:HG2	2.18	0.44
1:Q:221:GLN:CG	2:R:212:ILE:CG2	2.95	0.44
1:Q:222:ARG:HA	1:Q:225:ILE:CG1	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:274:THR:HG1	1:Q:277:ASN:CG	2.23	0.44
2:R:35:ARG:HD3	2:R:52:GLU:H	1.82	0.44
2:R:96:PHE:O	2:R:96:PHE:CD2	2.70	0.44
2:R:96:PHE:CE2	2:R:115:ASP:HB3	2.52	0.44
1:S:124:LEU:HD11	1:S:175:PHE:CB	2.47	0.44
1:S:140:VAL:HG13	1:S:167:GLU:HB2	1.98	0.44
1:S:222:ARG:HA	1:S:225:ILE:CG1	2.48	0.44
2:T:88:VAL:HG22	2:T:175:PHE:HD1	1.82	0.44
2:T:96:PHE:CE2	2:T:115:ASP:HB3	2.52	0.44
1:U:62:THR:HG22	1:U:64:LEU:CD2	2.47	0.44
2:V:33:GLY:O	2:V:70:ARG:N	2.50	0.44
2:V:91:THR:HG22	2:V:92:LEU:N	2.32	0.44
2:V:218:SER:HA	1:W:238:LEU:HD21	2.00	0.44
1:W:87:PRO:HA	1:W:108:VAL:O	2.18	0.44
1:W:228:ALA:HB3	2:X:219:LYS:NZ	2.33	0.44
1:W:233:GLU:O	1:W:236:LYS:HB2	2.17	0.44
1:A:124:LEU:HD11	1:A:175:PHE:CB	2.47	0.44
1:A:210:ALA:O	2:B:205:GLN:HB3	2.16	0.44
1:A:222:ARG:HA	1:A:225:ILE:CG1	2.48	0.44
1:A:284:ASP:HB2	1:W:275:ALA:HB3	1.99	0.44
2:B:49:VAL:HG21	2:B:101:SER:CA	2.43	0.44
2:B:97:ARG:O	2:B:98:PRO:C	2.61	0.44
1:C:50:ILE:HA	1:C:64:LEU:CD1	2.48	0.44
1:C:81:TYR:OH	1:C:121:TYR:HB2	2.18	0.44
1:C:117:LEU:CD2	1:C:120:MET:HE3	2.48	0.44
1:C:197:VAL:O	1:C:200:LYS:HG2	2.18	0.44
2:D:61:VAL:HG13	2:D:62:GLN:HG3	1.99	0.44
1:E:81:TYR:OH	1:E:121:TYR:HB2	2.18	0.44
1:E:124:LEU:HD11	1:E:175:PHE:CB	2.47	0.44
2:F:91:THR:HG22	2:F:92:LEU:N	2.32	0.44
1:G:214:VAL:HA	2:H:208:LYS:HD3	1.99	0.44
2:H:149:GLN:O	2:H:152:ASP:OD1	2.36	0.44
1:I:81:TYR:OH	1:I:121:TYR:HB2	2.18	0.44
1:I:239:GLY:C	1:I:241:ALA:H	2.25	0.44
2:J:41:ARG:CZ	1:K:43:VAL:H	2.30	0.44
2:J:90:ILE:CG2	2:J:127:LEU:HD21	2.47	0.44
2:L:33:GLY:O	2:L:70:ARG:N	2.51	0.44
2:L:58:ILE:O	2:L:61:VAL:HG12	2.17	0.44
2:L:221:ALA:HB2	1:M:248:TYR:HD2	1.82	0.44
1:O:117:LEU:HD23	1:O:120:MET:HE3	2.00	0.44
1:O:239:GLY:C	1:O:241:ALA:H	2.25	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:61:VAL:CA	1:Q:43:VAL:O	2.62	0.44
2:P:88:VAL:HG22	2:P:175:PHE:HD1	1.82	0.44
2:R:260:LEU:HD13	2:R:268:LEU:CD2	2.45	0.44
1:S:117:LEU:HD23	1:S:120:MET:HE3	2.00	0.44
1:U:81:TYR:OH	1:U:121:TYR:HB2	2.18	0.44
1:U:117:LEU:HD23	1:U:120:MET:HE3	2.00	0.44
1:U:142:LYS:HZ1	2:V:140:ILE:HG21	1.81	0.44
1:W:141:LEU:O	1:W:145:VAL:HG23	2.18	0.44
2:X:97:ARG:O	2:X:98:PRO:C	2.61	0.44
2:X:194:GLU:HA	2:X:197:ARG:HB3	2.00	0.44
1:A:67:GLY:HA3	2:X:43:ARG:HH21	1.79	0.44
1:A:81:TYR:OH	1:A:121:TYR:HB2	2.18	0.44
1:A:141:LEU:O	1:A:145:VAL:HG23	2.18	0.44
2:D:41:ARG:O	1:E:67:GLY:HA2	2.17	0.44
2:D:225:ALA:N	1:E:248:TYR:CB	2.71	0.44
2:D:239:ARG:O	1:E:258:GLN:CG	2.66	0.44
1:E:276:ASP:HB3	1:G:283:GLN:HB2	1.99	0.44
1:G:99:LEU:CB	2:H:180:THR:O	2.57	0.44
1:G:141:LEU:O	1:G:145:VAL:HG23	2.18	0.44
1:G:209:ARG:O	1:G:212:PHE:CZ	2.71	0.44
1:G:222:ARG:HA	1:G:225:ILE:CG1	2.48	0.44
2:H:258:THR:CG2	2:H:259:TYR:N	2.80	0.44
1:K:133:LEU:O	1:K:134:PRO:C	2.61	0.44
1:M:98:ASP:O	2:N:180:THR:O	2.35	0.44
1:M:209:ARG:O	1:M:212:PHE:CZ	2.71	0.44
2:N:96:PHE:O	2:N:96:PHE:CD2	2.70	0.44
1:O:197:VAL:O	1:O:200:LYS:HG2	2.18	0.44
2:P:43:ARG:HB2	1:Q:67:GLY:C	2.42	0.44
1:Q:209:ARG:O	1:Q:212:PHE:CZ	2.71	0.44
1:Q:256:ALA:O	1:Q:257:ALA:C	2.60	0.44
2:R:260:LEU:CD1	2:R:268:LEU:HD21	2.45	0.44
1:S:239:GLY:C	1:S:241:ALA:H	2.25	0.44
1:U:130:GLU:O	1:U:134:PRO:HG2	2.17	0.44
2:V:61:VAL:HG13	2:V:62:GLN:HG3	1.99	0.44
1:W:117:LEU:CD2	1:W:120:MET:HE3	2.48	0.44
1:W:117:LEU:HD23	1:W:120:MET:HE3	2.00	0.44
1:W:209:ARG:O	1:W:212:PHE:CZ	2.71	0.44
1:A:197:VAL:O	1:A:200:LYS:HG2	2.18	0.43
2:B:91:THR:HG22	2:B:92:LEU:N	2.32	0.43
2:B:244:ALA:HA	2:B:247:ILE:HD12	2.00	0.43
1:C:110:SER:OG	1:C:133:LEU:HD11	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:175:PHE:CE1	2:D:167:ASP:HB2	2.53	0.43
1:C:209:ARG:O	1:C:212:PHE:CZ	2.71	0.43
1:C:222:ARG:HA	1:C:225:ILE:CG1	2.48	0.43
1:E:117:LEU:CD2	1:E:120:MET:HE3	2.48	0.43
1:E:141:LEU:O	1:E:145:VAL:HG23	2.18	0.43
1:E:209:ARG:O	1:E:212:PHE:CZ	2.71	0.43
2:F:218:SER:OG	1:G:237:MET:CE	2.65	0.43
1:G:124:LEU:HD11	1:G:175:PHE:CB	2.47	0.43
1:G:133:LEU:O	1:G:134:PRO:C	2.61	0.43
1:I:41:PHE:CD1	1:I:43:VAL:CG2	3.00	0.43
1:I:130:GLU:O	1:I:134:PRO:HG2	2.17	0.43
1:I:141:LEU:O	1:I:145:VAL:HG23	2.18	0.43
2:L:97:ARG:O	2:L:98:PRO:C	2.61	0.43
1:M:87:PRO:HA	1:M:108:VAL:O	2.18	0.43
2:N:91:THR:HG22	2:N:92:LEU:N	2.32	0.43
1:O:144:VAL:HG21	1:O:164:ILE:N	2.33	0.43
1:O:233:GLU:O	1:O:236:LYS:HB2	2.17	0.43
2:P:194:GLU:HA	2:P:197:ARG:HB3	2.00	0.43
1:Q:50:ILE:HA	1:Q:64:LEU:CD1	2.48	0.43
1:Q:253:LYS:NZ	1:S:291:SER:HB3	2.33	0.43
2:R:61:VAL:HG13	2:R:62:GLN:HG3	1.99	0.43
2:R:90:ILE:HD12	2:R:131:VAL:HG21	2.00	0.43
2:R:91:THR:HG22	2:R:92:LEU:N	2.32	0.43
1:S:117:LEU:CD2	1:S:120:MET:HE3	2.48	0.43
1:S:197:VAL:O	1:S:200:LYS:HG2	2.18	0.43
1:S:253:LYS:HZ2	2:T:241:LEU:CD1	2.27	0.43
2:V:258:THR:CG2	2:V:259:TYR:N	2.80	0.43
1:W:133:LEU:O	1:W:134:PRO:C	2.61	0.43
1:W:140:VAL:HG12	1:W:164:ILE:HA	2.00	0.43
1:W:222:ARG:HA	1:W:225:ILE:CG1	2.48	0.43
1:A:239:GLY:C	1:A:241:ALA:H	2.25	0.43
2:B:88:VAL:HG22	2:B:175:PHE:HD1	1.82	0.43
2:B:269:GLN:HA	2:D:269:GLN:CD	2.43	0.43
1:C:144:VAL:HG21	1:C:164:ILE:N	2.33	0.43
2:D:84:ASP:H	2:D:135:ASP:HA	1.83	0.43
1:E:117:LEU:HD23	1:E:120:MET:HE3	2.00	0.43
1:E:239:GLY:C	1:E:241:ALA:H	2.25	0.43
2:F:84:ASP:H	2:F:135:ASP:HA	1.83	0.43
1:G:120:MET:SD	1:G:120:MET:O	2.76	0.43
2:H:97:ARG:O	2:H:98:PRO:C	2.61	0.43
1:I:58:VAL:HG12	1:I:118:PRO:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:140:VAL:HG12	1:I:164:ILE:HA	2.01	0.43
1:I:209:ARG:O	1:I:212:PHE:CZ	2.71	0.43
2:J:61:VAL:HG13	2:J:62:GLN:HG3	1.99	0.43
2:J:128:LYS:HZ3	1:K:157:ARG:HH12	1.65	0.43
1:K:50:ILE:HA	1:K:64:LEU:CD1	2.48	0.43
1:K:58:VAL:HG12	1:K:118:PRO:HB3	2.01	0.43
1:K:117:LEU:CD2	1:K:120:MET:HE3	2.47	0.43
1:K:222:ARG:HA	1:K:225:ILE:CG1	2.48	0.43
2:L:260:LEU:HD13	2:L:268:LEU:CD2	2.45	0.43
1:M:54:ARG:CZ	2:N:54:THR:N	2.81	0.43
1:M:58:VAL:HG12	1:M:118:PRO:HB3	2.01	0.43
2:N:35:ARG:HD3	2:N:52:GLU:H	1.82	0.43
2:N:84:ASP:H	2:N:135:ASP:HA	1.83	0.43
1:O:120:MET:SD	1:O:120:MET:O	2.76	0.43
1:O:267:SER:HB2	2:P:252:SER:HB2	1.99	0.43
1:Q:141:LEU:O	1:Q:145:VAL:HG23	2.18	0.43
1:Q:144:VAL:HG21	1:Q:164:ILE:N	2.33	0.43
2:R:251:LEU:HD13	1:S:278:LEU:HG	2.00	0.43
2:R:268:LEU:C	2:R:269:GLN:OE1	2.60	0.43
1:S:50:ILE:HA	1:S:64:LEU:CD1	2.48	0.43
1:U:117:LEU:CD2	1:U:120:MET:HE3	2.48	0.43
1:U:202:VAL:O	1:U:206:GLU:HG3	2.19	0.43
2:V:90:ILE:HD12	2:V:131:VAL:HG21	2.00	0.43
2:X:33:GLY:O	2:X:70:ARG:N	2.50	0.43
2:X:58:ILE:HB	2:X:61:VAL:HG11	2.00	0.43
1:A:87:PRO:HA	1:A:108:VAL:O	2.18	0.43
1:A:225:ILE:O	2:B:219:LYS:NZ	2.51	0.43
2:B:58:ILE:HB	2:B:61:VAL:HG11	2.00	0.43
1:C:102:VAL:HG21	1:C:153:LEU:CD1	2.49	0.43
1:C:141:LEU:O	1:C:145:VAL:HG23	2.18	0.43
2:D:243:ALA:HB2	1:E:258:GLN:CA	2.46	0.43
1:E:87:PRO:HA	1:E:108:VAL:O	2.18	0.43
1:E:222:ARG:HA	1:E:225:ILE:CG1	2.48	0.43
1:I:235:ALA:HB1	2:J:228:LEU:HG	2.00	0.43
2:J:42:PHE:HD1	1:K:68:LEU:HD13	1.83	0.43
2:J:97:ARG:O	2:J:98:PRO:C	2.61	0.43
1:K:140:VAL:HG12	1:K:164:ILE:HA	2.00	0.43
1:M:58:VAL:CG2	2:N:32:ALA:CB	2.94	0.43
1:M:218:LYS:CE	2:N:212:ILE:HD11	2.48	0.43
2:P:258:THR:CG2	2:P:259:TYR:N	2.80	0.43
2:R:244:ALA:HA	2:R:247:ILE:HD12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:58:VAL:HG12	1:S:118:PRO:HB3	2.01	0.43
1:S:133:LEU:O	1:S:134:PRO:C	2.61	0.43
2:T:43:ARG:CD	1:U:66:GLU:O	2.67	0.43
1:U:133:LEU:O	1:U:134:PRO:C	2.61	0.43
2:V:71:SER:HA	2:V:96:PHE:O	2.17	0.43
2:V:244:ALA:HA	2:V:247:ILE:HD12	2.00	0.43
1:W:50:ILE:HA	1:W:64:LEU:CD1	2.48	0.43
1:W:62:THR:HG22	1:W:64:LEU:CD2	2.47	0.43
1:W:144:VAL:HG21	1:W:164:ILE:N	2.33	0.43
1:W:197:VAL:O	1:W:200:LYS:HG2	2.18	0.43
2:X:58:ILE:O	2:X:61:VAL:HG12	2.17	0.43
1:A:199:ALA:HB1	2:B:195:ARG:HG3	1.99	0.43
1:A:294:LEU:HG	1:W:249:ILE:CG2	2.34	0.43
2:F:241:LEU:HD11	1:I:283:GLN:NE2	2.33	0.43
2:F:267:LEU:HD12	2:H:265:SER:HB2	2.00	0.43
1:G:58:VAL:HG12	1:G:118:PRO:HB3	2.01	0.43
2:H:43:ARG:CB	2:H:43:ARG:HG3	2.22	0.43
1:I:117:LEU:CD2	1:I:120:MET:HE3	2.48	0.43
1:I:120:MET:SD	1:I:124:LEU:HB2	2.59	0.43
2:J:225:ALA:CA	1:K:248:TYR:HB2	2.49	0.43
1:K:238:LEU:HB2	2:L:235:LEU:HB2	2.00	0.43
2:L:91:THR:HG22	2:L:92:LEU:N	2.32	0.43
2:L:189:ALA:HB3	1:M:212:PHE:CE1	2.53	0.43
2:L:260:LEU:HD22	2:L:268:LEU:HD21	1.98	0.43
1:M:117:LEU:CD2	1:M:120:MET:HE3	2.48	0.43
1:M:123:ARG:NH2	2:N:166:ASP:HB3	2.33	0.43
1:O:133:LEU:O	1:O:134:PRO:C	2.61	0.43
2:P:33:GLY:O	2:P:70:ARG:N	2.51	0.43
2:P:150:VAL:HG21	2:P:170:LEU:HD21	2.00	0.43
1:Q:87:PRO:HA	1:Q:108:VAL:O	2.18	0.43
1:Q:120:MET:SD	1:Q:124:LEU:HB2	2.59	0.43
1:Q:259:ASN:HB2	2:R:249:TYR:CZ	2.53	0.43
1:S:233:GLU:O	1:S:236:LYS:HB2	2.17	0.43
1:S:249:ILE:HD12	2:T:238:LEU:CA	2.45	0.43
2:T:150:VAL:HG21	2:T:170:LEU:HD21	2.00	0.43
2:V:88:VAL:HG22	2:V:175:PHE:HD1	1.82	0.43
2:V:194:GLU:HA	2:V:197:ARG:HB3	2.00	0.43
1:W:102:VAL:HG21	1:W:153:LEU:CD1	2.49	0.43
1:E:144:VAL:HG21	1:E:164:ILE:N	2.33	0.43
1:G:144:VAL:HG21	1:G:164:ILE:N	2.33	0.43
2:H:236:ILE:HG23	1:I:250:LYS:CD	2.46	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:102:VAL:HG21	1:I:153:LEU:CD1	2.49	0.43
1:I:233:GLU:O	1:I:236:LYS:HB2	2.17	0.43
2:J:88:VAL:HG22	2:J:175:PHE:HD1	1.82	0.43
2:J:90:ILE:HD12	2:J:131:VAL:HG21	2.00	0.43
1:K:160:VAL:HG12	1:K:184:ILE:HD11	1.99	0.43
2:L:244:ALA:HA	2:L:247:ILE:HD12	2.00	0.43
1:M:256:ALA:O	1:M:257:ALA:C	2.60	0.43
2:N:149:GLN:O	2:N:152:ASP:OD1	2.35	0.43
1:O:202:VAL:O	1:O:206:GLU:HG3	2.19	0.43
1:O:209:ARG:O	1:O:212:PHE:CZ	2.71	0.43
2:P:43:ARG:C	1:Q:66:GLU:CG	2.92	0.43
2:P:109:SER:HB3	1:Q:111:ARG:CD	2.48	0.43
1:Q:94:THR:HG21	1:Q:145:VAL:CB	2.44	0.43
1:Q:130:GLU:O	1:Q:134:PRO:HG2	2.17	0.43
1:S:141:LEU:O	1:S:145:VAL:HG23	2.18	0.43
2:T:44:GLY:HA3	1:U:66:GLU:OE2	2.18	0.43
2:T:106:ILE:HA	2:T:110:ILE:HB	2.01	0.43
2:T:109:SER:HB2	1:U:180:ASP:OD2	2.18	0.43
2:T:258:THR:CG2	2:T:259:TYR:N	2.80	0.43
1:U:58:VAL:HG12	1:U:118:PRO:HB3	2.00	0.43
1:U:120:MET:SD	1:U:124:LEU:HB2	2.59	0.43
1:U:135:SER:OG	2:V:93:ARG:HD2	2.17	0.43
1:U:222:ARG:HA	1:U:225:ILE:CG1	2.48	0.43
1:U:274:THR:HG1	1:U:277:ASN:CG	2.27	0.43
1:A:140:VAL:HG12	1:A:164:ILE:HA	2.01	0.43
1:A:284:ASP:CB	1:W:275:ALA:HB3	2.48	0.43
2:B:193:ALA:O	1:C:219:GLN:NE2	2.33	0.43
1:C:101:MET:SD	2:D:180:THR:CG2	3.07	0.43
1:C:133:LEU:O	1:C:134:PRO:C	2.61	0.43
1:C:140:VAL:HG12	1:C:164:ILE:HA	2.00	0.43
1:C:233:GLU:O	1:C:236:LYS:HB2	2.17	0.43
2:D:251:LEU:HD22	1:E:264:ILE:HG22	1.97	0.43
2:F:240:LYS:C	2:F:241:LEU:HG	2.43	0.43
1:G:197:VAL:O	1:G:200:LYS:HG2	2.18	0.43
2:H:58:ILE:HB	2:H:61:VAL:HG11	2.00	0.43
1:I:58:VAL:CG1	1:I:118:PRO:HB3	2.49	0.43
1:I:144:VAL:HG21	1:I:164:ILE:N	2.33	0.43
1:K:81:TYR:OH	1:K:121:TYR:HB2	2.18	0.43
1:K:102:VAL:HG21	1:K:153:LEU:CD1	2.49	0.43
1:K:144:VAL:HG21	1:K:164:ILE:N	2.33	0.43
1:K:236:LYS:CE	2:L:227:SER:CB	2.94	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:278:LEU:C	1:K:279:VAL:HG23	2.42	0.43
1:M:52:PHE:CZ	2:N:52:GLU:HB3	2.53	0.43
1:M:58:VAL:CG1	1:M:118:PRO:HB3	2.49	0.43
1:M:81:TYR:OH	1:M:121:TYR:HB2	2.18	0.43
1:M:144:VAL:HG21	1:M:164:ILE:N	2.33	0.43
1:M:197:VAL:O	1:M:200:LYS:HG2	2.18	0.43
1:O:120:MET:SD	1:O:124:LEU:HB2	2.59	0.43
1:O:261:SER:HA	1:O:264:ILE:HB	2.01	0.43
2:P:240:LYS:C	2:P:241:LEU:HG	2.43	0.43
1:Q:81:TYR:OH	1:Q:121:TYR:HB2	2.18	0.43
1:S:81:TYR:OH	1:S:121:TYR:HB2	2.18	0.43
2:T:58:ILE:HB	2:T:61:VAL:HG11	2.00	0.43
2:T:90:ILE:HD12	2:T:131:VAL:HG21	2.00	0.43
2:T:194:GLU:HA	2:T:197:ARG:HB3	2.00	0.43
1:U:144:VAL:HG21	1:U:164:ILE:HA	2.01	0.43
1:W:124:LEU:HD11	1:W:175:PHE:CB	2.47	0.43
2:X:84:ASP:H	2:X:135:ASP:HA	1.83	0.43
2:X:91:THR:HG22	2:X:92:LEU:N	2.32	0.43
1:A:102:VAL:HG21	1:A:153:LEU:CD1	2.49	0.43
2:B:134:PHE:HB2	2:B:139:LEU:CD2	2.43	0.43
1:C:130:GLU:O	2:D:93:ARG:NH2	2.51	0.43
2:F:28:TYR:HD2	2:F:57:LEU:HD23	1.81	0.43
1:G:87:PRO:HA	1:G:108:VAL:O	2.18	0.43
1:G:140:VAL:HG12	1:G:164:ILE:HA	2.00	0.43
1:G:144:VAL:HG21	1:G:164:ILE:HA	2.01	0.43
2:H:150:VAL:HG21	2:H:170:LEU:HD21	2.00	0.43
1:I:222:ARG:HA	1:I:225:ILE:CG1	2.48	0.43
2:J:240:LYS:C	2:J:241:LEU:HG	2.43	0.43
2:J:258:THR:CG2	2:J:259:TYR:N	2.80	0.43
1:K:209:ARG:O	1:K:212:PHE:CZ	2.71	0.43
2:L:150:VAL:HG21	2:L:170:LEU:HD21	2.00	0.43
1:M:124:LEU:HD11	1:M:175:PHE:CB	2.47	0.43
1:M:193:TYR:HB2	2:N:184:GLU:OE2	2.19	0.43
2:N:98:PRO:HA	2:N:163:LEU:HD23	2.01	0.43
2:P:149:GLN:O	2:P:152:ASP:OD1	2.36	0.43
1:Q:133:LEU:O	1:Q:134:PRO:C	2.61	0.43
1:S:120:MET:SD	1:S:124:LEU:HB2	2.59	0.43
2:T:260:LEU:CD1	2:T:268:LEU:HD21	2.45	0.43
1:U:144:VAL:HG21	1:U:164:ILE:N	2.33	0.43
1:W:120:MET:SD	1:W:124:LEU:HB2	2.59	0.43
1:W:202:VAL:O	1:W:206:GLU:HG3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X:240:LYS:C	2:X:241:LEU:HG	2.43	0.43
1:A:144:VAL:HG21	1:A:164:ILE:N	2.33	0.43
1:A:209:ARG:O	1:A:212:PHE:CZ	2.71	0.43
1:A:245:ASN:OD1	1:A:246:PRO:HD2	2.19	0.43
2:B:98:PRO:HA	2:B:163:LEU:HD23	2.01	0.43
1:C:100:GLN:NE2	2:D:184:GLU:CD	2.75	0.43
1:C:270:ARG:HB2	2:D:258:THR:OG1	2.19	0.43
2:D:97:ARG:O	2:D:98:PRO:C	2.61	0.43
1:E:133:LEU:O	1:E:134:PRO:C	2.61	0.43
2:F:248:ALA:HB2	2:F:251:LEU:HD12	2.01	0.43
2:F:258:THR:CG2	2:F:259:TYR:N	2.80	0.43
2:H:90:ILE:HD12	2:H:131:VAL:HG21	2.00	0.43
1:I:87:PRO:HA	1:I:108:VAL:O	2.18	0.43
1:I:133:LEU:O	1:I:134:PRO:C	2.61	0.43
2:J:41:ARG:HD3	1:K:43:VAL:H	1.84	0.43
2:L:189:ALA:HB1	1:M:212:PHE:CD1	2.48	0.43
1:M:102:VAL:HG21	1:M:153:LEU:CD1	2.49	0.43
2:N:88:VAL:HG22	2:N:175:PHE:HD1	1.82	0.43
1:O:249:ILE:HB	2:P:238:LEU:HD12	2.00	0.43
2:P:84:ASP:H	2:P:135:ASP:HA	1.83	0.43
1:Q:238:LEU:HB3	2:R:235:LEU:HD13	2.00	0.43
1:Q:281:ASN:HB2	1:Q:287:PHE:HD1	1.84	0.43
1:S:209:ARG:O	1:S:212:PHE:CZ	2.71	0.43
1:S:243:SER:HA	2:T:234:GLY:HA3	1.99	0.43
1:U:141:LEU:O	1:U:145:VAL:HG23	2.18	0.43
1:U:246:PRO:N	1:W:294:LEU:HG	2.33	0.43
2:V:270:LEU:HD11	2:X:260:LEU:CD1	2.49	0.43
2:X:43:ARG:CB	2:X:43:ARG:HG2	2.22	0.43
1:A:53:ASN:HB2	1:A:59:GLN:CG	2.49	0.43
1:A:58:VAL:CG1	1:A:118:PRO:HB3	2.49	0.43
1:A:110:SER:CB	1:A:133:LEU:HD11	2.49	0.43
1:A:133:LEU:O	1:A:134:PRO:C	2.61	0.43
1:A:202:VAL:O	1:A:206:GLU:HG3	2.19	0.43
1:C:120:MET:SD	1:C:124:LEU:HB2	2.59	0.43
2:D:88:VAL:HG22	2:D:175:PHE:HD1	1.82	0.43
2:D:248:ALA:HB2	2:D:251:LEU:HD12	2.01	0.43
2:D:256:ASN:HB2	1:E:268:GLN:HG2	2.00	0.43
2:D:268:LEU:HD11	1:E:272:TYR:CD2	2.53	0.43
1:E:281:ASN:HB2	1:E:287:PHE:HD1	1.84	0.43
1:G:120:MET:SD	1:G:124:LEU:HB2	2.59	0.43
1:I:202:VAL:O	1:I:206:GLU:HG3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:189:ALA:HA	2:J:192:GLU:CB	2.49	0.43
2:J:221:ALA:CB	1:K:248:TYR:CD2	3.02	0.43
1:K:117:LEU:HD23	1:K:120:MET:HE3	2.00	0.43
1:K:120:MET:SD	1:K:124:LEU:HB2	2.59	0.43
1:K:202:VAL:O	1:K:206:GLU:HG3	2.19	0.43
1:M:120:MET:SD	1:M:124:LEU:HB2	2.59	0.43
1:O:53:ASN:HB2	1:O:59:GLN:CG	2.49	0.43
1:O:62:THR:HG22	1:O:64:LEU:CD2	2.47	0.43
2:P:97:ARG:O	2:P:98:PRO:C	2.61	0.43
1:Q:202:VAL:O	1:Q:206:GLU:HG3	2.19	0.43
1:Q:238:LEU:HB2	2:R:235:LEU:HD22	2.00	0.43
2:R:84:ASP:H	2:R:135:ASP:HA	1.83	0.43
2:R:189:ALA:HA	2:R:192:GLU:CB	2.49	0.43
1:S:53:ASN:HB2	1:S:59:GLN:CG	2.49	0.43
1:S:272:TYR:O	2:T:259:TYR:CB	2.66	0.43
1:U:6:LYS:HZ3	2:V:10:GLY:CA	2.32	0.43
1:U:197:VAL:O	1:U:200:LYS:HG2	2.18	0.43
2:V:97:ARG:O	2:V:98:PRO:C	2.61	0.43
2:X:150:VAL:HG21	2:X:170:LEU:HD21	2.00	0.43
1:A:280:LEU:HD13	1:W:271:ILE:CG2	2.45	0.43
1:C:281:ASN:HB2	1:C:287:PHE:HD1	1.84	0.43
1:E:197:VAL:O	1:E:200:LYS:HG2	2.18	0.43
2:F:97:ARG:O	2:F:98:PRO:C	2.61	0.43
1:G:275:ALA:HB3	1:I:284:ASP:HA	2.01	0.43
2:H:43:ARG:HB2	1:I:68:LEU:HD22	2.01	0.43
2:J:98:PRO:HA	2:J:163:LEU:HD23	2.01	0.43
2:J:150:VAL:HG21	2:J:170:LEU:HD21	2.00	0.43
2:J:194:GLU:HA	2:J:197:ARG:HB3	2.00	0.43
1:K:62:THR:HG22	1:K:64:LEU:CD2	2.47	0.43
1:K:87:PRO:HA	1:K:108:VAL:O	2.18	0.43
2:L:84:ASP:H	2:L:135:ASP:HA	1.83	0.43
1:M:62:THR:HG22	1:M:64:LEU:CD2	2.47	0.43
2:N:43:ARG:CB	2:N:43:ARG:HG2	2.22	0.43
1:O:58:VAL:HG12	1:O:118:PRO:HB3	2.00	0.43
1:O:110:SER:HB3	1:O:133:LEU:HD11	2.01	0.43
1:O:256:ALA:O	1:O:257:ALA:C	2.60	0.43
2:R:149:GLN:O	2:R:152:ASP:OD1	2.35	0.43
1:S:110:SER:HB3	1:S:133:LEU:HD11	2.01	0.43
1:S:144:VAL:HG21	1:S:164:ILE:N	2.33	0.43
2:T:260:LEU:CD2	2:T:268:LEU:CD2	2.97	0.43
1:U:87:PRO:HA	1:U:108:VAL:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:110:SER:HB3	1:U:133:LEU:HD11	2.01	0.43
1:U:124:LEU:HD11	1:U:175:PHE:CB	2.48	0.43
1:U:209:ARG:O	1:U:212:PHE:CZ	2.71	0.43
2:V:260:LEU:HD22	2:V:268:LEU:HD21	1.98	0.43
1:W:81:TYR:OH	1:W:121:TYR:HB2	2.18	0.43
2:X:260:LEU:CD2	2:X:268:LEU:CD2	2.97	0.43
1:A:261:SER:HA	1:A:264:ILE:HB	2.01	0.42
2:B:196:ALA:CB	1:C:219:GLN:HE21	2.27	0.42
2:B:211:ILE:HG23	1:C:233:GLU:OE2	2.16	0.42
1:C:245:ASN:OD1	1:C:246:PRO:HD2	2.19	0.42
2:D:240:LYS:N	1:E:254:ILE:HG23	2.34	0.42
1:E:102:VAL:HG21	1:E:153:LEU:CD1	2.49	0.42
1:E:140:VAL:HG12	1:E:164:ILE:HA	2.01	0.42
1:E:144:VAL:HG21	1:E:164:ILE:HA	2.01	0.42
2:F:149:GLN:O	2:F:152:ASP:OD1	2.36	0.42
1:G:117:LEU:HD23	1:G:120:MET:HE3	2.00	0.42
1:G:135:SER:OG	2:H:171:THR:CG2	2.66	0.42
2:H:98:PRO:HA	2:H:163:LEU:HD23	2.01	0.42
1:I:117:LEU:HD23	1:I:120:MET:HE3	2.00	0.42
1:K:261:SER:HA	1:K:264:ILE:HB	2.01	0.42
2:L:258:THR:CG2	2:L:259:TYR:N	2.80	0.42
1:M:98:ASP:OD2	2:N:184:GLU:HG2	2.19	0.42
1:M:99:LEU:CD2	2:N:175:PHE:HE2	2.32	0.42
1:M:110:SER:CB	1:M:133:LEU:HD11	2.49	0.42
2:N:106:ILE:HA	2:N:110:ILE:HB	2.01	0.42
2:N:150:VAL:HG21	2:N:170:LEU:HD21	2.00	0.42
2:N:271:PRO:O	2:P:271:PRO:CB	2.66	0.42
2:P:86:GLN:NE2	1:Q:201:GLN:HB2	2.30	0.42
1:Q:110:SER:HB3	1:Q:133:LEU:HD11	2.01	0.42
1:Q:144:VAL:HG21	1:Q:164:ILE:HA	2.01	0.42
2:R:258:THR:CG2	2:R:259:TYR:N	2.80	0.42
1:S:131:ARG:CZ	2:T:70:ARG:NH1	2.82	0.42
1:U:102:VAL:HG21	1:U:153:LEU:CD1	2.49	0.42
1:U:140:VAL:HG12	1:U:164:ILE:HA	2.00	0.42
1:U:245:ASN:OD1	1:U:246:PRO:HD2	2.19	0.42
1:W:53:ASN:HB2	1:W:59:GLN:CG	2.49	0.42
1:A:120:MET:SD	1:A:124:LEU:HB2	2.59	0.42
2:B:106:ILE:HA	2:B:110:ILE:HB	2.01	0.42
2:D:229:ALA:HB1	1:E:245:ASN:HB3	2.01	0.42
2:D:251:LEU:HD23	1:E:265:ALA:CA	2.49	0.42
1:E:94:THR:HG21	1:E:145:VAL:CB	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:202:VAL:O	1:E:206:GLU:HG3	2.18	0.42
2:F:99:VAL:HG22	2:F:164:ILE:HG13	2.02	0.42
2:F:268:LEU:HD11	2:H:264:GLN:HE22	1.85	0.42
2:H:244:ALA:HA	2:H:247:ILE:HD12	2.00	0.42
2:H:260:LEU:HD13	2:H:268:LEU:CD2	2.44	0.42
2:H:260:LEU:CD2	2:H:268:LEU:CD2	2.97	0.42
1:I:245:ASN:OD1	1:I:246:PRO:HD2	2.19	0.42
2:J:84:ASP:H	2:J:135:ASP:HA	1.83	0.42
1:K:245:ASN:OD1	1:K:246:PRO:HD2	2.19	0.42
2:L:99:VAL:HG22	2:L:164:ILE:HG13	2.02	0.42
2:L:189:ALA:HA	2:L:192:GLU:CB	2.49	0.42
2:L:194:GLU:HA	2:L:197:ARG:HB3	2.00	0.42
2:L:260:LEU:HD22	2:L:268:LEU:CG	2.50	0.42
1:M:222:ARG:HA	1:M:225:ILE:CG1	2.48	0.42
1:M:245:ASN:OD1	1:M:246:PRO:HD2	2.19	0.42
2:N:97:ARG:O	2:N:98:PRO:C	2.61	0.42
1:O:58:VAL:CG1	1:O:118:PRO:HB3	2.49	0.42
1:O:102:VAL:HG21	1:O:153:LEU:CD1	2.49	0.42
1:O:281:ASN:HB2	1:O:287:PHE:HD1	1.84	0.42
2:P:179:PHE:HA	1:Q:205:GLN:HB2	1.99	0.42
2:P:179:PHE:H	1:Q:202:VAL:HA	1.83	0.42
1:Q:53:ASN:HB2	1:Q:59:GLN:CG	2.49	0.42
1:Q:58:VAL:CG1	1:Q:118:PRO:HB3	2.49	0.42
1:Q:117:LEU:HD23	1:Q:120:MET:HE3	2.00	0.42
2:R:98:PRO:HA	2:R:163:LEU:HD23	2.01	0.42
2:R:217:ASP:CB	1:S:248:TYR:CE2	3.00	0.42
1:S:261:SER:HA	1:S:264:ILE:HB	2.01	0.42
2:T:189:ALA:HA	2:T:192:GLU:CB	2.49	0.42
2:T:260:LEU:HD13	2:T:268:LEU:CD2	2.45	0.42
2:V:58:ILE:HB	2:V:61:VAL:HG11	2.01	0.42
1:W:58:VAL:CG1	1:W:118:PRO:HB3	2.49	0.42
1:A:144:VAL:HG21	1:A:164:ILE:HA	2.01	0.42
1:A:193:TYR:OH	2:B:187:GLN:HG3	2.18	0.42
2:B:248:ALA:HB2	2:B:251:LEU:HD12	2.01	0.42
2:B:258:THR:CG2	2:B:259:TYR:N	2.80	0.42
1:C:99:LEU:HB2	2:D:183:VAL:HG13	2.02	0.42
1:C:202:VAL:O	1:C:206:GLU:HG3	2.19	0.42
2:D:236:ILE:CG2	1:E:250:LYS:HB3	2.40	0.42
2:F:150:VAL:HG21	2:F:170:LEU:HD21	2.00	0.42
2:F:194:GLU:HA	2:F:197:ARG:HB3	2.00	0.42
2:F:270:LEU:HB3	1:G:272:TYR:CE2	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:102:VAL:HG21	1:G:153:LEU:CD1	2.49	0.42
1:I:53:ASN:HB2	1:I:59:GLN:CG	2.49	0.42
1:I:110:SER:HB3	1:I:133:LEU:HD11	2.01	0.42
1:I:256:ALA:O	1:I:257:ALA:C	2.60	0.42
1:I:261:SER:HA	1:I:264:ILE:HB	2.01	0.42
2:J:58:ILE:HB	2:J:61:VAL:HG11	2.00	0.42
2:J:99:VAL:HG22	2:J:164:ILE:HG13	2.01	0.42
2:J:128:LYS:NZ	1:K:157:ARG:NH1	2.64	0.42
1:K:53:ASN:HB2	1:K:59:GLN:CG	2.49	0.42
2:L:43:ARG:C	1:M:66:GLU:HB3	2.44	0.42
2:L:58:ILE:HB	2:L:61:VAL:HG11	2.01	0.42
2:L:98:PRO:HA	2:L:163:LEU:HD23	2.01	0.42
2:N:90:ILE:HD12	2:N:131:VAL:HG21	2.00	0.42
1:O:222:ARG:HA	1:O:225:ILE:CG1	2.48	0.42
2:P:90:ILE:HD12	2:P:131:VAL:HG21	2.00	0.42
2:P:124:THR:HG22	1:Q:157:ARG:CZ	2.48	0.42
2:P:260:LEU:CD2	2:P:268:LEU:CD2	2.97	0.42
2:R:58:ILE:HB	2:R:61:VAL:HG11	2.00	0.42
2:R:99:VAL:HG22	2:R:164:ILE:HG13	2.01	0.42
2:R:202:LYS:HE2	2:R:206:GLN:NE2	2.35	0.42
2:R:248:ALA:HB2	2:R:251:LEU:HD12	2.01	0.42
1:S:140:VAL:HG12	1:S:164:ILE:HA	2.00	0.42
1:S:245:ASN:OD1	1:S:246:PRO:HD2	2.19	0.42
2:T:98:PRO:HA	2:T:163:LEU:HD23	2.01	0.42
1:U:142:LYS:NZ	2:V:140:ILE:HD13	2.33	0.42
1:W:281:ASN:HB2	1:W:287:PHE:HD1	1.84	0.42
2:B:28:TYR:HD2	2:B:57:LEU:HD23	1.81	0.42
1:C:142:LYS:CG	2:D:140:ILE:HG21	2.48	0.42
1:C:274:THR:HG1	1:C:277:ASN:CG	2.27	0.42
2:D:150:VAL:HG21	2:D:170:LEU:HD21	2.00	0.42
2:D:202:LYS:HE2	2:D:206:GLN:NE2	2.35	0.42
1:E:120:MET:SD	1:E:124:LEU:HB2	2.59	0.42
1:E:144:VAL:HG21	1:E:164:ILE:CA	2.50	0.42
1:G:81:TYR:OH	1:G:121:TYR:HB2	2.18	0.42
1:G:260:ILE:HG21	1:I:278:LEU:HD22	2.01	0.42
2:H:189:ALA:HA	2:H:192:GLU:CB	2.49	0.42
1:I:228:ALA:HB3	2:J:219:LYS:HZ1	1.83	0.42
2:J:248:ALA:HB2	2:J:251:LEU:HD12	2.01	0.42
1:K:164:ILE:HD12	1:K:184:ILE:CD1	2.36	0.42
1:K:225:ILE:HD13	2:L:219:LYS:CB	2.46	0.42
2:L:90:ILE:HD12	2:L:131:VAL:HG21	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:57:GLY:HA3	2:N:35:ARG:NH1	2.34	0.42
2:N:260:LEU:HD22	2:N:268:LEU:CG	2.50	0.42
1:O:245:ASN:OD1	1:O:246:PRO:HD2	2.19	0.42
1:O:267:SER:OG	2:P:252:SER:HA	2.19	0.42
2:P:58:ILE:HB	2:P:61:VAL:HG11	2.01	0.42
2:P:125:GLU:OE2	1:Q:162:LEU:HG	2.20	0.42
2:P:262:ALA:CB	1:Q:275:ALA:HB2	2.49	0.42
1:Q:140:VAL:HG12	1:Q:164:ILE:HA	2.01	0.42
1:Q:261:SER:HA	1:Q:264:ILE:HB	2.01	0.42
1:S:81:TYR:CE1	1:S:121:TYR:HB2	2.55	0.42
1:S:151:SER:HB3	1:S:193:TYR:CD2	2.55	0.42
1:S:252:ARG:HH11	2:T:242:GLU:HG2	1.79	0.42
1:U:53:ASN:HB2	1:U:59:GLN:CG	2.49	0.42
1:U:151:SER:HB3	1:U:193:TYR:CD2	2.55	0.42
2:V:106:ILE:HA	2:V:110:ILE:HB	2.01	0.42
2:V:134:PHE:HB2	2:V:139:LEU:CD2	2.44	0.42
2:X:258:THR:CG2	2:X:259:TYR:N	2.80	0.42
1:C:53:ASN:HB2	1:C:59:GLN:CG	2.49	0.42
1:C:58:VAL:HG12	1:C:118:PRO:HB3	2.01	0.42
1:C:110:SER:HB3	1:C:133:LEU:HD11	2.01	0.42
1:C:261:SER:HA	1:C:264:ILE:HB	2.01	0.42
2:D:240:LYS:CG	1:E:254:ILE:HG12	2.49	0.42
1:E:151:SER:HB3	1:E:193:TYR:CD2	2.55	0.42
2:F:58:ILE:HB	2:F:61:VAL:HG11	2.00	0.42
1:G:58:VAL:CG1	1:G:118:PRO:HB3	2.49	0.42
1:G:261:SER:HA	1:G:264:ILE:HB	2.01	0.42
1:I:63:ILE:HD13	1:I:115:GLN:C	2.45	0.42
1:I:110:SER:CB	1:I:133:LEU:HD11	2.49	0.42
1:I:144:VAL:HG21	1:I:164:ILE:HA	2.01	0.42
2:J:202:LYS:HE2	2:J:206:GLN:NE2	2.35	0.42
1:K:110:SER:CB	1:K:133:LEU:HD11	2.49	0.42
1:M:81:TYR:CE1	1:M:121:TYR:HB2	2.55	0.42
1:M:133:LEU:O	1:M:134:PRO:C	2.61	0.42
2:N:189:ALA:HA	2:N:192:GLU:CB	2.49	0.42
1:O:140:VAL:HG12	1:O:164:ILE:HA	2.00	0.42
2:P:41:ARG:CD	1:Q:42:THR:O	2.63	0.42
1:Q:81:TYR:CE1	1:Q:121:TYR:HB2	2.55	0.42
1:S:58:VAL:CG1	1:S:118:PRO:HB3	2.49	0.42
1:S:81:TYR:CD1	1:S:120:MET:HE1	2.55	0.42
1:S:110:SER:CB	1:S:133:LEU:HD11	2.49	0.42
1:S:202:VAL:O	1:S:206:GLU:HG3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:90:ILE:CD1	2:V:173:LEU:HD13	2.50	0.42
2:V:239:ARG:CG	1:W:251:LEU:CD1	2.91	0.42
2:V:260:LEU:HD22	2:V:268:LEU:CG	2.50	0.42
1:W:157:ARG:NH1	1:W:187:LEU:HB3	2.35	0.42
2:X:98:PRO:HA	2:X:163:LEU:HD23	2.01	0.42
2:X:248:ALA:HB2	2:X:251:LEU:HD12	2.01	0.42
2:D:194:GLU:HA	2:D:197:ARG:HB3	2.00	0.42
2:D:222:GLU:OE2	1:E:237:MET:HE2	2.19	0.42
2:D:260:LEU:HD22	2:D:268:LEU:CG	2.50	0.42
1:E:58:VAL:CG1	1:E:118:PRO:HB3	2.49	0.42
1:E:81:TYR:CE1	1:E:121:TYR:HB2	2.55	0.42
1:E:275:ALA:HB3	1:G:284:ASP:HB2	2.02	0.42
2:F:98:PRO:HA	2:F:163:LEU:HD23	2.01	0.42
2:F:202:LYS:HE2	2:F:206:GLN:NE2	2.35	0.42
1:I:270:ARG:O	2:J:259:TYR:CB	2.68	0.42
2:J:260:LEU:CD1	2:J:268:LEU:HD21	2.45	0.42
2:L:204:GLU:HA	1:M:226:VAL:CG1	2.50	0.42
1:M:117:LEU:HD23	1:M:120:MET:HE3	2.00	0.42
1:M:144:VAL:HG21	1:M:164:ILE:CA	2.50	0.42
1:M:144:VAL:HG21	1:M:164:ILE:HA	2.01	0.42
1:M:281:ASN:HB2	1:M:287:PHE:HD1	1.84	0.42
1:O:144:VAL:HG21	1:O:164:ILE:CA	2.50	0.42
1:O:267:SER:HB2	2:P:252:SER:CB	2.50	0.42
2:P:106:ILE:HA	2:P:110:ILE:HB	2.01	0.42
2:P:189:ALA:HA	2:P:192:GLU:CB	2.49	0.42
2:P:202:LYS:HE2	2:P:206:GLN:NE2	2.35	0.42
1:Q:58:VAL:HG12	1:Q:118:PRO:HB3	2.01	0.42
1:Q:157:ARG:NH1	1:Q:187:LEU:HB3	2.35	0.42
1:Q:260:ILE:CG1	2:R:249:TYR:HD1	2.33	0.42
1:S:252:ARG:NE	2:T:245:GLU:OE2	2.49	0.42
1:S:252:ARG:CD	2:T:245:GLU:OE2	2.68	0.42
2:T:99:VAL:HG22	2:T:164:ILE:HG13	2.01	0.42
1:U:261:SER:HA	1:U:264:ILE:HB	2.01	0.42
2:V:202:LYS:HE2	2:V:206:GLN:NE2	2.35	0.42
1:W:261:SER:HA	1:W:264:ILE:HB	2.01	0.42
2:X:260:LEU:HD22	2:X:268:LEU:CG	2.50	0.42
1:A:63:ILE:HD13	1:A:115:GLN:C	2.45	0.42
1:A:200:LYS:HB2	2:B:194:GLU:C	2.44	0.42
2:B:150:VAL:HG21	2:B:170:LEU:HD21	2.00	0.42
2:B:202:LYS:HE2	2:B:206:GLN:NE2	2.35	0.42
1:C:131:ARG:HA	2:D:95:LEU:HD21	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:58:ILE:HB	2:D:61:VAL:HG11	2.00	0.42
2:D:99:VAL:HG22	2:D:164:ILE:HG13	2.02	0.42
2:D:106:ILE:HA	2:D:110:ILE:HB	2.01	0.42
1:G:245:ASN:OD1	1:G:246:PRO:HD2	2.19	0.42
2:H:240:LYS:C	2:H:241:LEU:HG	2.43	0.42
1:I:252:ARG:HG2	2:J:238:LEU:HD12	2.00	0.42
1:I:281:ASN:HB2	1:I:287:PHE:HD1	1.84	0.42
2:J:236:ILE:HA	1:K:251:LEU:HD22	2.00	0.42
1:K:58:VAL:CG1	1:K:118:PRO:HB3	2.49	0.42
1:K:81:TYR:CD1	1:K:120:MET:HE1	2.55	0.42
1:K:144:VAL:HG21	1:K:164:ILE:HA	2.01	0.42
1:K:281:ASN:HB2	1:K:287:PHE:HD1	1.84	0.42
2:L:197:ARG:N	1:M:219:GLN:NE2	2.68	0.42
1:O:110:SER:CB	1:O:133:LEU:HD11	2.49	0.42
2:P:90:ILE:CD1	2:P:173:LEU:HD13	2.50	0.42
2:P:99:VAL:HG22	2:P:164:ILE:HG13	2.01	0.42
2:P:128:LYS:HD2	1:Q:157:ARG:HD3	2.02	0.42
2:P:260:LEU:HD22	2:P:268:LEU:CG	2.50	0.42
1:Q:102:VAL:HG21	1:Q:153:LEU:CD1	2.49	0.42
1:Q:245:ASN:OD1	1:Q:246:PRO:HD2	2.19	0.42
2:R:204:GLU:HG3	1:S:226:VAL:HG21	2.01	0.42
2:R:270:LEU:H	2:T:269:GLN:HB2	1.85	0.42
1:S:102:VAL:HG21	1:S:153:LEU:CD1	2.49	0.42
2:T:41:ARG:CD	1:U:44:GLU:HA	2.50	0.42
1:U:50:ILE:HA	1:U:64:LEU:CD1	2.48	0.42
1:U:58:VAL:CG1	1:U:118:PRO:HB3	2.49	0.42
1:U:157:ARG:NH1	1:U:187:LEU:HB3	2.35	0.42
1:U:246:PRO:CD	1:W:294:LEU:CB	2.98	0.42
2:V:189:ALA:HA	2:V:192:GLU:CB	2.49	0.42
2:V:250:GLN:CD	1:W:262:LYS:HG2	2.45	0.42
1:W:81:TYR:CD1	1:W:120:MET:HE1	2.55	0.42
2:X:260:LEU:HD13	2:X:268:LEU:CD2	2.45	0.42
1:A:81:TYR:CD1	1:A:120:MET:HE1	2.55	0.42
1:A:84:ARG:HA	2:X:109:SER:CA	2.39	0.42
2:B:204:GLU:HG2	1:C:226:VAL:CG2	2.35	0.42
2:B:221:ALA:O	2:B:222:GLU:C	2.63	0.42
2:B:272:GLN:NE2	2:D:272:GLN:NE2	2.67	0.42
1:C:81:TYR:CE1	1:C:121:TYR:HB2	2.55	0.42
1:C:110:SER:CB	1:C:133:LEU:HD11	2.49	0.42
1:C:151:SER:HB3	1:C:193:TYR:CD2	2.55	0.42
2:D:182:ALA:HB1	1:E:205:GLN:CG	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:157:ARG:NH1	1:E:187:LEU:HB3	2.35	0.42
1:G:110:SER:CB	1:G:133:LEU:HD11	2.49	0.42
1:G:157:ARG:NH1	1:G:187:LEU:HB3	2.35	0.42
2:H:99:VAL:HG22	2:H:164:ILE:HG13	2.01	0.42
2:H:218:SER:OG	1:I:237:MET:HE1	2.19	0.42
2:L:90:ILE:CD1	2:L:173:LEU:HD13	2.50	0.42
1:M:157:ARG:NH1	1:M:187:LEU:HB3	2.35	0.42
1:M:202:VAL:O	1:M:206:GLU:HG3	2.19	0.42
2:N:58:ILE:HB	2:N:61:VAL:HG11	2.01	0.42
2:N:99:VAL:HG22	2:N:164:ILE:HG13	2.02	0.42
2:N:202:LYS:HE2	2:N:206:GLN:NE2	2.35	0.42
2:N:258:THR:CG2	2:N:259:TYR:N	2.80	0.42
1:O:63:ILE:HD13	1:O:115:GLN:C	2.45	0.42
1:O:157:ARG:NH1	1:O:187:LEU:HB3	2.35	0.42
1:Q:144:VAL:HG21	1:Q:164:ILE:CA	2.50	0.42
2:R:193:ALA:CB	1:S:219:GLN:NE2	2.74	0.42
1:S:63:ILE:HD13	1:S:115:GLN:C	2.45	0.42
1:S:99:LEU:HD22	2:T:140:ILE:HD13	1.99	0.42
1:S:144:VAL:HG21	1:S:164:ILE:CA	2.50	0.42
2:T:248:ALA:HB2	2:T:251:LEU:HD12	2.01	0.42
2:T:260:LEU:HD22	2:T:268:LEU:CG	2.50	0.42
1:U:81:TYR:CE1	1:U:121:TYR:HB2	2.55	0.42
2:V:28:TYR:H	2:V:54:THR:HG23	1.85	0.42
2:V:257:ILE:HG12	1:W:271:ILE:HB	1.96	0.42
2:X:28:TYR:H	2:X:54:THR:HG23	1.85	0.42
1:A:50:ILE:HA	1:A:64:LEU:CD1	2.48	0.42
1:A:291:SER:CB	1:W:253:LYS:HE2	2.47	0.42
2:B:28:TYR:H	2:B:54:THR:HG23	1.85	0.42
1:E:53:ASN:HB2	1:E:59:GLN:CG	2.49	0.42
1:E:63:ILE:HD13	1:E:115:GLN:C	2.45	0.42
1:E:110:SER:CB	1:E:133:LEU:HD11	2.49	0.42
1:E:261:SER:HA	1:E:264:ILE:HB	2.01	0.42
2:F:189:ALA:HA	2:F:192:GLU:CB	2.49	0.42
2:F:218:SER:HB3	1:G:237:MET:HE1	2.01	0.42
1:G:63:ILE:HD13	1:G:115:GLN:C	2.45	0.42
2:H:28:TYR:HD2	2:H:57:LEU:HD23	1.81	0.42
2:H:106:ILE:HA	2:H:110:ILE:HB	2.01	0.42
1:I:81:TYR:CD1	1:I:120:MET:HE1	2.55	0.42
2:J:92:LEU:CD2	2:J:123:THR:HG23	2.50	0.42
2:J:248:ALA:HA	2:J:251:LEU:HB2	2.02	0.42
1:K:238:LEU:O	2:L:234:GLY:HA3	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:202:LYS:HE2	2:L:206:GLN:NE2	2.35	0.42
1:M:81:TYR:CD1	1:M:120:MET:HE1	2.55	0.42
1:M:261:SER:HA	1:M:264:ILE:HB	2.01	0.42
2:P:43:ARG:HB2	1:Q:67:GLY:O	2.20	0.42
2:P:85:LEU:HB2	1:Q:197:VAL:HG13	1.99	0.42
2:P:109:SER:CA	1:Q:85:ALA:HB2	2.50	0.42
2:P:111:GLY:CA	1:Q:85:ALA:HB3	2.50	0.42
1:Q:238:LEU:CB	2:R:235:LEU:HD22	2.49	0.42
1:S:157:ARG:NH1	1:S:187:LEU:HB3	2.35	0.42
1:S:164:ILE:HD12	1:S:184:ILE:CD1	2.36	0.42
1:W:110:SER:HB3	1:W:133:LEU:HD11	2.01	0.42
1:W:144:VAL:HG21	1:W:164:ILE:CA	2.50	0.42
1:W:245:ASN:OD1	1:W:246:PRO:HD2	2.19	0.42
2:X:221:ALA:O	2:X:222:GLU:C	2.63	0.42
1:A:58:VAL:HG12	1:A:118:PRO:HB3	2.01	0.42
2:B:90:ILE:CD1	2:B:173:LEU:HD13	2.50	0.42
2:B:260:LEU:HD22	2:B:268:LEU:CG	2.50	0.42
1:C:63:ILE:HD13	1:C:115:GLN:C	2.45	0.42
1:C:131:ARG:CA	2:D:95:LEU:HD22	2.49	0.42
1:C:131:ARG:NE	2:D:71:SER:O	2.53	0.42
1:C:144:VAL:HG21	1:C:164:ILE:CA	2.50	0.42
2:D:90:ILE:CD1	2:D:173:LEU:HD13	2.50	0.42
2:D:92:LEU:CD2	2:D:123:THR:HG23	2.50	0.42
1:E:50:ILE:HA	1:E:64:LEU:CD1	2.48	0.42
1:E:95:GLY:H	1:E:142:LYS:HE2	1.85	0.42
1:E:289:ARG:HD2	1:E:290:GLY:N	2.35	0.42
2:F:91:THR:HB	2:F:171:THR:HB	2.02	0.42
2:F:235:LEU:HD12	2:F:235:LEU:HA	1.91	0.42
2:F:260:LEU:HD22	2:F:268:LEU:CG	2.50	0.42
1:G:202:VAL:O	1:G:206:GLU:HG3	2.19	0.42
1:G:281:ASN:HB2	1:G:287:PHE:HD1	1.84	0.42
2:H:248:ALA:HB2	2:H:251:LEU:HD12	2.01	0.42
1:I:50:ILE:HA	1:I:64:LEU:CD1	2.48	0.42
1:I:144:VAL:HG21	1:I:164:ILE:CA	2.50	0.42
1:I:260:ILE:HG21	1:K:278:LEU:HD22	2.02	0.42
1:K:151:SER:HB3	1:K:193:TYR:CD2	2.55	0.42
1:K:157:ARG:NH1	1:K:187:LEU:HB3	2.35	0.42
1:M:54:ARG:HD3	2:N:54:THR:HB	2.02	0.42
1:M:140:VAL:HG12	1:M:164:ILE:HA	2.00	0.42
2:N:90:ILE:CD1	2:N:173:LEU:HD13	2.50	0.42
1:O:71:ARG:O	1:O:71:ARG:HG3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:95:GLY:H	1:O:142:LYS:HE2	1.85	0.42
2:P:41:ARG:CZ	1:Q:80:ILE:HG21	2.49	0.42
1:Q:47:HIS:CG	1:Q:81:TYR:O	2.73	0.42
2:R:259:TYR:CE2	1:S:281:ASN:CA	3.02	0.42
2:R:259:TYR:HE2	1:S:281:ASN:CG	2.22	0.42
2:R:260:LEU:CD2	2:R:268:LEU:CD2	2.98	0.42
2:R:261:PRO:CB	1:S:284:ASP:OD2	2.68	0.42
1:S:242:LEU:HD13	2:T:238:LEU:CG	2.50	0.42
1:S:272:TYR:O	2:T:259:TYR:CA	2.68	0.42
1:S:281:ASN:HB2	1:S:287:PHE:HD1	1.84	0.42
2:T:202:LYS:HE2	2:T:206:GLN:NE2	2.35	0.42
1:U:281:ASN:HB2	1:U:287:PHE:HD1	1.84	0.42
2:V:43:ARG:NE	1:W:67:GLY:HA2	2.35	0.42
1:W:94:THR:HG21	1:W:145:VAL:CB	2.44	0.42
1:W:110:SER:CB	1:W:133:LEU:HD11	2.49	0.42
1:W:144:VAL:HG21	1:W:164:ILE:HA	2.01	0.42
1:A:81:TYR:CE1	1:A:121:TYR:HB2	2.55	0.41
1:A:144:VAL:HG21	1:A:164:ILE:CA	2.50	0.41
2:B:200:VAL:HG22	1:C:223:GLN:N	2.35	0.41
1:C:81:TYR:CD1	1:C:120:MET:HE1	2.55	0.41
1:C:131:ARG:CD	2:D:71:SER:O	2.68	0.41
1:C:272:TYR:CD1	2:D:259:TYR:O	2.73	0.41
2:D:43:ARG:CG	2:D:43:ARG:HB2	2.24	0.41
2:D:182:ALA:CB	1:E:205:GLN:HG3	2.50	0.41
2:D:240:LYS:HG3	1:E:254:ILE:HG12	2.02	0.41
1:E:58:VAL:HG12	1:E:118:PRO:HB3	2.01	0.41
1:G:144:VAL:HG21	1:G:164:ILE:CA	2.50	0.41
2:H:224:ILE:HG21	1:I:251:LEU:HG	2.02	0.41
2:H:248:ALA:HA	2:H:251:LEU:HB2	2.02	0.41
2:J:37:VAL:HG11	2:J:45:VAL:HG13	2.02	0.41
1:K:232:ALA:CB	2:L:224:ILE:HG12	2.50	0.41
2:L:248:ALA:HA	2:L:251:LEU:HB2	2.02	0.41
1:M:58:VAL:HB	1:M:122:GLN:HG3	2.02	0.41
2:N:248:ALA:HB2	2:N:251:LEU:HD12	2.01	0.41
2:P:98:PRO:HA	2:P:163:LEU:HD23	2.01	0.41
2:R:37:VAL:HG11	2:R:45:VAL:HG13	2.02	0.41
2:R:38:ILE:CG2	2:R:40:ASP:HB2	2.50	0.41
2:R:150:VAL:HG21	2:R:170:LEU:HD21	2.00	0.41
1:S:144:VAL:HG21	1:S:164:ILE:HA	2.01	0.41
2:V:150:VAL:HG21	2:V:170:LEU:HD21	2.00	0.41
1:W:58:VAL:HG12	1:W:118:PRO:HB3	2.00	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X:106:ILE:HA	2:X:110:ILE:HB	2.01	0.41
2:X:189:ALA:HA	2:X:192:GLU:CB	2.49	0.41
1:A:82:ASP:OD2	1:A:86:ARG:NE	2.54	0.41
1:A:110:SER:HB3	1:A:133:LEU:HD11	2.01	0.41
1:A:200:LYS:HD2	2:B:194:GLU:CB	2.49	0.41
1:A:207:ALA:HA	2:B:201:GLU:O	2.20	0.41
1:A:281:ASN:HB2	1:A:287:PHE:HD1	1.84	0.41
2:B:272:GLN:HA	2:D:271:PRO:HA	2.01	0.41
1:C:47:HIS:CG	1:C:81:TYR:O	2.73	0.41
1:C:82:ASP:OD2	1:C:86:ARG:NE	2.54	0.41
1:C:144:VAL:HG21	1:C:164:ILE:HA	2.01	0.41
1:E:245:ASN:OD1	1:E:246:PRO:HD2	2.19	0.41
1:E:274:THR:HG23	1:G:280:LEU:O	2.20	0.41
2:F:37:VAL:HG11	2:F:45:VAL:HG13	2.02	0.41
2:F:106:ILE:HA	2:F:110:ILE:HB	2.01	0.41
1:G:53:ASN:HB2	1:G:59:GLN:CG	2.49	0.41
1:G:71:ARG:O	1:G:71:ARG:HG3	2.20	0.41
1:G:82:ASP:OD2	1:G:86:ARG:NE	2.54	0.41
2:H:49:VAL:HG21	2:H:101:SER:CA	2.43	0.41
2:J:90:ILE:CD1	2:J:173:LEU:HD13	2.50	0.41
2:J:91:THR:HB	2:J:171:THR:HB	2.03	0.41
2:J:235:LEU:HD12	2:J:235:LEU:HA	1.91	0.41
1:K:110:SER:HB3	1:K:133:LEU:HD11	2.01	0.41
2:L:91:THR:HB	2:L:171:THR:HB	2.03	0.41
2:L:196:ALA:HB1	1:M:220:GLU:CG	2.47	0.41
2:L:221:ALA:O	2:L:222:GLU:C	2.63	0.41
1:M:95:GLY:H	1:M:142:LYS:HE2	1.85	0.41
1:M:151:SER:HB3	1:M:193:TYR:CD2	2.55	0.41
1:M:289:ARG:HD2	1:M:290:GLY:N	2.35	0.41
2:N:28:TYR:H	2:N:54:THR:HG23	1.85	0.41
1:O:81:TYR:CE1	1:O:121:TYR:HB2	2.55	0.41
1:O:82:ASP:OD2	1:O:86:ARG:NE	2.54	0.41
2:P:92:LEU:CD2	2:P:123:THR:HG23	2.50	0.41
2:P:117:ARG:HG2	1:Q:107:ARG:NE	2.34	0.41
2:P:248:ALA:HB2	2:P:251:LEU:HD12	2.01	0.41
2:R:106:ILE:HA	2:R:110:ILE:HB	2.01	0.41
1:S:47:HIS:CG	1:S:81:TYR:O	2.73	0.41
1:S:104:ILE:HG22	1:S:141:LEU:HD22	2.02	0.41
2:T:38:ILE:CG2	2:T:40:ASP:HB2	2.50	0.41
2:T:90:ILE:CD1	2:T:173:LEU:HD13	2.50	0.41
1:U:58:VAL:HB	1:U:122:GLN:HG3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:63:ILE:HD13	1:U:115:GLN:C	2.45	0.41
1:U:95:GLY:H	1:U:142:LYS:HE2	1.85	0.41
1:U:135:SER:HB2	2:V:93:ARG:CD	2.51	0.41
2:V:37:VAL:HG11	2:V:45:VAL:HG13	2.02	0.41
2:V:248:ALA:HB2	2:V:251:LEU:HD12	2.01	0.41
2:V:259:TYR:HA	1:W:273:LEU:H	1.84	0.41
1:W:151:SER:HB3	1:W:193:TYR:CD2	2.55	0.41
2:X:37:VAL:HG11	2:X:45:VAL:HG13	2.02	0.41
2:X:91:THR:HB	2:X:171:THR:HB	2.02	0.41
2:X:92:LEU:CD2	2:X:123:THR:HG23	2.50	0.41
2:X:99:VAL:HG22	2:X:164:ILE:HG13	2.02	0.41
2:X:202:LYS:HE2	2:X:206:GLN:NE2	2.35	0.41
1:A:98:ASP:O	1:A:99:LEU:HB2	2.21	0.41
1:A:151:SER:HB3	1:A:193:TYR:CD2	2.55	0.41
1:A:157:ARG:NH1	1:A:187:LEU:HB3	2.35	0.41
1:A:289:ARG:HD2	1:A:290:GLY:N	2.35	0.41
1:C:58:VAL:CG1	1:C:118:PRO:HB3	2.49	0.41
1:C:95:GLY:H	1:C:142:LYS:HE2	1.85	0.41
2:D:236:ILE:N	1:E:251:LEU:CD2	2.83	0.41
2:F:28:TYR:H	2:F:54:THR:HG23	1.85	0.41
2:F:43:ARG:CB	2:F:43:ARG:HG2	2.22	0.41
2:F:92:LEU:CD2	2:F:123:THR:HG23	2.50	0.41
2:F:221:ALA:O	2:F:222:GLU:C	2.63	0.41
1:G:47:HIS:CG	1:G:81:TYR:O	2.73	0.41
1:G:81:TYR:CD1	1:G:120:MET:HE1	2.55	0.41
2:H:58:ILE:HB	2:H:61:VAL:CG1	2.50	0.41
1:I:82:ASP:OD2	1:I:86:ARG:NE	2.54	0.41
1:I:151:SER:HB3	1:I:193:TYR:CD2	2.55	0.41
1:K:63:ILE:HD13	1:K:115:GLN:C	2.45	0.41
2:L:28:TYR:H	2:L:54:THR:HG23	1.85	0.41
2:L:37:VAL:HG11	2:L:45:VAL:HG13	2.02	0.41
1:M:47:HIS:CG	1:M:81:TYR:O	2.73	0.41
1:M:121:TYR:CD2	2:N:32:ALA:CB	2.99	0.41
2:P:248:ALA:HA	2:P:251:LEU:HB2	2.03	0.41
1:Q:151:SER:HB3	1:Q:193:TYR:CD2	2.55	0.41
1:Q:253:LYS:HE3	2:R:241:LEU:HD13	2.00	0.41
1:S:58:VAL:HB	1:S:122:GLN:HG3	2.02	0.41
1:S:236:LYS:O	1:S:240:GLU:OE1	2.39	0.41
2:T:39:PHE:O	2:T:62:GLN:HA	2.21	0.41
1:U:110:SER:CB	1:U:133:LEU:HD11	2.49	0.41
1:U:200:LYS:O	2:V:198:PHE:HD2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:63:ILE:HD13	1:W:115:GLN:C	2.45	0.41
1:W:98:ASP:O	1:W:99:LEU:HB2	2.20	0.41
1:A:241:ALA:HB3	1:A:242:LEU:HG	2.03	0.41
1:A:283:GLN:H	1:W:277:ASN:ND2	2.17	0.41
2:B:99:VAL:HG22	2:B:164:ILE:HG13	2.01	0.41
2:B:189:ALA:HA	2:B:192:GLU:CB	2.49	0.41
1:C:58:VAL:HB	1:C:122:GLN:HG3	2.02	0.41
1:C:71:ARG:O	1:C:71:ARG:HG3	2.20	0.41
2:D:39:PHE:O	2:D:62:GLN:HA	2.21	0.41
2:D:221:ALA:O	2:D:222:GLU:C	2.63	0.41
2:D:240:LYS:C	2:D:241:LEU:HG	2.43	0.41
1:E:58:VAL:HB	1:E:122:GLN:HG3	2.02	0.41
2:F:270:LEU:HD13	1:G:272:TYR:CE2	2.56	0.41
1:G:151:SER:HB3	1:G:193:TYR:CD2	2.55	0.41
2:H:92:LEU:CD2	2:H:123:THR:HG23	2.50	0.41
1:I:81:TYR:CE1	1:I:121:TYR:HB2	2.55	0.41
1:I:95:GLY:H	1:I:142:LYS:HE2	1.85	0.41
1:I:98:ASP:O	1:I:99:LEU:HB2	2.21	0.41
2:J:106:ILE:HA	2:J:110:ILE:HB	2.01	0.41
1:K:81:TYR:CE1	1:K:121:TYR:HB2	2.55	0.41
1:K:98:ASP:O	1:K:99:LEU:HB2	2.21	0.41
2:L:248:ALA:HB2	2:L:251:LEU:HD12	2.01	0.41
1:M:63:ILE:HD13	1:M:115:GLN:C	2.45	0.41
1:M:98:ASP:O	1:M:99:LEU:HB2	2.21	0.41
1:O:47:HIS:CG	1:O:81:TYR:O	2.73	0.41
1:O:90:ILE:HG22	1:O:138:ASN:OD1	2.21	0.41
2:P:67:PHE:HZ	2:P:107:PHE:CD1	2.39	0.41
2:P:91:THR:HB	2:P:171:THR:HB	2.03	0.41
1:Q:110:SER:CB	1:Q:133:LEU:HD11	2.49	0.41
1:Q:236:LYS:O	1:Q:240:GLU:OE1	2.39	0.41
1:S:82:ASP:OD2	1:S:86:ARG:NE	2.54	0.41
1:S:260:ILE:HG12	2:T:248:ALA:CB	2.36	0.41
2:T:248:ALA:HA	2:T:251:LEU:HB2	2.02	0.41
1:U:81:TYR:CD1	1:U:120:MET:HE1	2.55	0.41
1:U:267:SER:OG	2:V:252:SER:HA	2.20	0.41
2:V:221:ALA:HB1	1:W:242:LEU:CD1	2.50	0.41
1:W:58:VAL:HB	1:W:122:GLN:HG3	2.02	0.41
1:W:71:ARG:HG3	1:W:71:ARG:O	2.20	0.41
1:W:236:LYS:O	1:W:240:GLU:OE1	2.39	0.41
2:B:240:LYS:NZ	1:E:282:LEU:HD22	2.35	0.41
1:C:289:ARG:HD2	1:C:290:GLY:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:28:TYR:H	2:D:54:THR:HG23	1.85	0.41
2:D:38:ILE:CG2	2:D:40:ASP:HB2	2.50	0.41
2:D:189:ALA:HA	2:D:192:GLU:CB	2.49	0.41
2:D:247:ILE:HA	1:E:261:SER:O	2.20	0.41
1:E:82:ASP:OD2	1:E:86:ARG:NE	2.54	0.41
1:E:110:SER:HB3	1:E:133:LEU:HD11	2.01	0.41
1:E:155:THR:OG1	1:E:156:GLN:HG3	2.21	0.41
2:F:268:LEU:HD13	2:H:261:PRO:CD	2.50	0.41
1:G:110:SER:HB3	1:G:133:LEU:HD11	2.01	0.41
2:H:38:ILE:CG2	2:H:40:ASP:HB2	2.50	0.41
2:H:90:ILE:HA	2:H:172:HIS:O	2.21	0.41
2:H:260:LEU:HD22	2:H:268:LEU:CG	2.50	0.41
1:I:41:PHE:CG	1:I:78:PRO:HB3	2.56	0.41
1:I:71:ARG:O	1:I:71:ARG:HG3	2.20	0.41
2:J:58:ILE:HB	2:J:61:VAL:CG1	2.50	0.41
2:J:260:LEU:CD2	2:J:268:LEU:CD2	2.97	0.41
1:K:95:GLY:H	1:K:142:LYS:HE2	1.85	0.41
1:K:104:ILE:HG22	1:K:141:LEU:HD22	2.02	0.41
1:K:289:ARG:HD2	1:K:290:GLY:N	2.35	0.41
2:L:140:ILE:CG1	2:L:173:LEU:HD21	2.51	0.41
2:L:260:LEU:CD1	2:L:268:LEU:HD21	2.45	0.41
1:M:90:ILE:HG22	1:M:138:ASN:OD1	2.21	0.41
2:N:58:ILE:HB	2:N:61:VAL:CG1	2.51	0.41
1:O:151:SER:HB3	1:O:193:TYR:CD2	2.55	0.41
1:O:236:LYS:O	1:O:240:GLU:OE1	2.39	0.41
2:P:46:GLN:N	1:Q:66:GLU:OE1	2.49	0.41
1:Q:81:TYR:CD1	1:Q:120:MET:HE1	2.55	0.41
2:R:91:THR:HB	2:R:171:THR:HB	2.03	0.41
1:S:95:GLY:H	1:S:142:LYS:HE2	1.85	0.41
2:T:97:ARG:O	2:T:98:PRO:C	2.61	0.41
1:U:71:ARG:O	1:U:71:ARG:HG3	2.20	0.41
1:U:82:ASP:OD2	1:U:86:ARG:NE	2.54	0.41
1:U:144:VAL:HG21	1:U:164:ILE:CA	2.50	0.41
2:V:82:SER:HB3	2:V:139:LEU:HD11	2.03	0.41
2:V:92:LEU:CD2	2:V:123:THR:HG23	2.50	0.41
2:V:99:VAL:HG22	2:V:164:ILE:HG13	2.01	0.41
1:W:41:PHE:CG	1:W:78:PRO:HB3	2.56	0.41
2:X:67:PHE:HZ	2:X:107:PHE:CD1	2.39	0.41
2:X:248:ALA:HA	2:X:251:LEU:HB2	2.02	0.41
2:D:37:VAL:HG11	2:D:45:VAL:HG13	2.02	0.41
2:D:91:THR:HB	2:D:171:THR:HB	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:236:ILE:HD13	1:E:250:LYS:HD2	2.01	0.41
2:D:246:ASP:O	1:E:262:LYS:HG2	2.21	0.41
2:F:260:LEU:CD2	2:F:268:LEU:CD2	2.98	0.41
1:G:81:TYR:CE1	1:G:121:TYR:HB2	2.55	0.41
1:G:155:THR:OG1	1:G:156:GLN:HG3	2.21	0.41
1:G:236:LYS:O	1:G:240:GLU:OE1	2.39	0.41
2:H:67:PHE:HZ	2:H:107:PHE:CD1	2.39	0.41
1:I:62:THR:HG22	1:I:64:LEU:CD2	2.47	0.41
1:I:157:ARG:NH1	1:I:187:LEU:HB3	2.35	0.41
1:I:236:LYS:O	1:I:240:GLU:OE1	2.39	0.41
2:J:28:TYR:H	2:J:54:THR:HG23	1.85	0.41
2:J:39:PHE:O	2:J:62:GLN:HA	2.21	0.41
2:J:43:ARG:CB	2:J:43:ARG:HG2	2.22	0.41
1:K:58:VAL:HB	1:K:122:GLN:HG3	2.02	0.41
1:K:144:VAL:HG21	1:K:164:ILE:CA	2.50	0.41
2:L:92:LEU:CD2	2:L:123:THR:HG23	2.50	0.41
2:L:260:LEU:CD2	2:L:268:LEU:CD2	2.97	0.41
1:M:110:SER:HB3	1:M:133:LEU:HD11	2.01	0.41
1:M:139:GLU:HG3	2:N:169:SER:HB3	2.01	0.41
2:N:67:PHE:HZ	2:N:107:PHE:CD1	2.39	0.41
2:N:82:SER:HB3	2:N:139:LEU:HD11	2.03	0.41
1:O:81:TYR:CD1	1:O:120:MET:HE1	2.55	0.41
1:O:104:ILE:HG22	1:O:141:LEU:HD22	2.02	0.41
2:P:38:ILE:CG2	2:P:40:ASP:HB2	2.50	0.41
2:P:221:ALA:O	2:P:222:GLU:C	2.63	0.41
1:Q:90:ILE:HG22	1:Q:138:ASN:OD1	2.21	0.41
2:R:67:PHE:HZ	2:R:107:PHE:CD1	2.39	0.41
2:R:260:LEU:HD22	2:R:268:LEU:CG	2.50	0.41
1:S:71:ARG:HG3	1:S:71:ARG:O	2.20	0.41
1:U:47:HIS:CG	1:U:81:TYR:O	2.73	0.41
2:V:58:ILE:HB	2:V:61:VAL:CG1	2.51	0.41
1:A:99:LEU:HD12	2:B:183:VAL:CG1	2.39	0.41
2:B:218:SER:CB	1:C:238:LEU:CD2	2.90	0.41
1:C:157:ARG:NH1	1:C:187:LEU:HB3	2.35	0.41
1:C:193:TYR:HE1	2:D:187:GLN:HG3	1.85	0.41
2:D:68:ASP:HB3	2:D:114:TYR:OH	2.21	0.41
2:D:140:ILE:CG1	2:D:173:LEU:HD21	2.51	0.41
1:E:41:PHE:CG	1:E:78:PRO:HB3	2.56	0.41
2:F:260:LEU:HD13	2:F:268:LEU:CD2	2.45	0.41
1:G:58:VAL:HB	1:G:122:GLN:HG3	2.02	0.41
1:G:90:ILE:HG22	1:G:138:ASN:OD1	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:95:GLY:H	1:G:142:LYS:HE2	1.85	0.41
1:G:215:GLU:O	1:G:219:GLN:HG2	2.21	0.41
2:H:43:ARG:CG	2:H:43:ARG:HB2	2.24	0.41
2:H:202:LYS:HE2	2:H:206:GLN:NE2	2.35	0.41
1:I:47:HIS:CG	1:I:81:TYR:O	2.73	0.41
1:I:155:THR:OG1	1:I:156:GLN:HG3	2.21	0.41
2:J:260:LEU:HD22	2:J:268:LEU:CG	2.50	0.41
1:K:47:HIS:CG	1:K:81:TYR:O	2.73	0.41
1:K:71:ARG:HG3	1:K:71:ARG:O	2.20	0.41
1:K:236:LYS:O	1:K:240:GLU:OE1	2.39	0.41
2:L:58:ILE:HB	2:L:61:VAL:CG1	2.51	0.41
1:M:53:ASN:HB2	1:M:59:GLN:CG	2.49	0.41
1:M:260:ILE:HG13	2:N:245:GLU:CD	2.45	0.41
2:N:49:VAL:HG21	2:N:101:SER:CA	2.43	0.41
2:N:240:LYS:C	2:N:241:LEU:HG	2.43	0.41
1:O:215:GLU:O	1:O:219:GLN:HG2	2.21	0.41
1:O:289:ARG:HD2	1:O:290:GLY:N	2.35	0.41
2:P:107:PHE:CZ	1:Q:84:ARG:HG2	2.56	0.41
2:P:107:PHE:HE2	1:Q:45:GLY:O	2.03	0.41
2:P:110:ILE:HG12	1:Q:109:LEU:CD2	2.50	0.41
1:Q:58:VAL:HB	1:Q:122:GLN:HG3	2.02	0.41
1:Q:82:ASP:OD2	1:Q:86:ARG:NE	2.54	0.41
1:Q:209:ARG:O	1:Q:212:PHE:CE1	2.74	0.41
2:R:200:VAL:HG13	1:S:226:VAL:CB	2.51	0.41
1:S:215:GLU:O	1:S:219:GLN:HG2	2.21	0.41
1:U:90:ILE:HG22	1:U:138:ASN:OD1	2.21	0.41
1:U:242:LEU:HD13	2:V:238:LEU:HD13	2.01	0.41
1:U:289:ARG:HD2	1:U:290:GLY:N	2.35	0.41
2:V:39:PHE:O	2:V:62:GLN:HA	2.21	0.41
2:V:49:VAL:HG21	2:V:101:SER:CA	2.43	0.41
2:V:98:PRO:HA	2:V:163:LEU:HD23	2.01	0.41
1:W:81:TYR:CE1	1:W:121:TYR:HB2	2.55	0.41
2:X:38:ILE:CG2	2:X:40:ASP:HB2	2.50	0.41
2:X:58:ILE:HB	2:X:61:VAL:CG1	2.50	0.41
2:X:140:ILE:CG1	2:X:173:LEU:HD21	2.51	0.41
1:A:41:PHE:CG	1:A:78:PRO:HB3	2.56	0.41
1:A:45:GLY:HA3	2:X:45:VAL:N	2.31	0.41
1:A:47:HIS:CG	1:A:81:TYR:O	2.73	0.41
1:A:199:ALA:CB	2:B:195:ARG:HG3	2.50	0.41
2:B:90:ILE:HA	2:B:172:HIS:O	2.21	0.41
2:B:248:ALA:HA	2:B:251:LEU:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:68:LEU:C	1:C:69:HIS:CG	2.99	0.41
2:D:58:ILE:HB	2:D:61:VAL:CG1	2.50	0.41
2:D:260:LEU:HD13	1:E:272:TYR:HE2	1.80	0.41
1:E:81:TYR:CD1	1:E:120:MET:HE1	2.55	0.41
1:E:104:ILE:HG22	1:E:141:LEU:HD22	2.02	0.41
1:E:241:ALA:HB3	1:E:242:LEU:HG	2.03	0.41
2:F:68:ASP:HB3	2:F:114:TYR:OH	2.21	0.41
1:M:41:PHE:CG	1:M:78:PRO:HB3	2.56	0.41
1:M:58:VAL:HG22	2:N:32:ALA:CB	2.50	0.41
2:N:221:ALA:O	2:N:222:GLU:C	2.63	0.41
1:O:68:LEU:C	1:O:69:HIS:CG	2.99	0.41
2:P:28:TYR:H	2:P:54:THR:HG23	1.85	0.41
2:P:58:ILE:HB	2:P:61:VAL:CG1	2.51	0.41
2:P:140:ILE:CG1	2:P:173:LEU:HD21	2.51	0.41
2:R:82:SER:HB3	2:R:139:LEU:HD11	2.03	0.41
2:R:90:ILE:CD1	2:R:173:LEU:HD13	2.50	0.41
1:S:98:ASP:O	1:S:99:LEU:HB2	2.21	0.41
1:S:155:THR:OG1	1:S:156:GLN:HG3	2.21	0.41
1:S:263:THR:OG1	2:T:252:SER:HB3	2.20	0.41
2:T:96:PHE:HB2	2:T:163:LEU:HD22	2.03	0.41
1:U:68:LEU:C	1:U:69:HIS:CG	2.99	0.41
1:U:241:ALA:HB3	1:U:242:LEU:HG	2.03	0.41
2:V:240:LYS:C	2:V:241:LEU:HG	2.43	0.41
1:A:51:PHE:CE1	1:A:69:HIS:HB3	2.56	0.41
1:A:68:LEU:C	1:A:69:HIS:CG	2.99	0.41
1:A:71:ARG:O	1:A:71:ARG:HG3	2.20	0.41
1:A:90:ILE:HG22	1:A:138:ASN:OD1	2.21	0.41
1:A:95:GLY:H	1:A:142:LYS:HE2	1.85	0.41
1:A:215:GLU:O	1:A:219:GLN:HG2	2.21	0.41
1:A:221:GLN:CD	2:B:216:GLY:N	2.79	0.41
2:B:38:ILE:CG2	2:B:40:ASP:HB2	2.50	0.41
2:B:96:PHE:HB2	2:B:163:LEU:HD22	2.03	0.41
2:B:103:LEU:O	2:B:104:PRO:C	2.64	0.41
2:D:90:ILE:HA	2:D:172:HIS:O	2.21	0.41
2:D:246:ASP:OD2	1:E:262:LYS:HD3	2.20	0.41
2:D:260:LEU:CD2	2:D:268:LEU:CD2	2.97	0.41
1:E:47:HIS:CG	1:E:81:TYR:O	2.73	0.41
1:E:54:ARG:HB3	1:E:75:PHE:CE1	2.56	0.41
1:E:90:ILE:HG22	1:E:138:ASN:OD1	2.21	0.41
1:E:98:ASP:O	1:E:99:LEU:HB2	2.21	0.41
1:E:215:GLU:O	1:E:219:GLN:HG2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:236:LYS:O	1:E:240:GLU:OE1	2.39	0.41
1:E:278:LEU:CA	1:E:279:VAL:HG23	2.51	0.41
2:F:38:ILE:CG2	2:F:40:ASP:HB2	2.50	0.41
2:F:67:PHE:HZ	2:F:107:PHE:CD1	2.39	0.41
2:F:82:SER:HB3	2:F:139:LEU:HD11	2.03	0.41
1:G:41:PHE:CG	1:G:78:PRO:HB3	2.56	0.41
1:G:68:LEU:C	1:G:69:HIS:CG	2.99	0.41
1:G:246:PRO:HB3	1:I:294:LEU:CB	2.51	0.41
2:H:82:SER:HB3	2:H:139:LEU:HD11	2.03	0.41
1:I:58:VAL:HB	1:I:122:GLN:HG3	2.02	0.41
2:J:32:ALA:C	2:J:34:HIS:H	2.29	0.41
2:J:240:LYS:NZ	1:M:282:LEU:HB3	2.36	0.41
1:K:90:ILE:HG22	1:K:138:ASN:OD1	2.21	0.41
1:K:241:ALA:HB3	1:K:242:LEU:HG	2.03	0.41
1:K:245:ASN:CG	1:M:295:ILE:HD11	2.46	0.41
2:L:38:ILE:CG2	2:L:40:ASP:HB2	2.50	0.41
2:L:39:PHE:O	2:L:62:GLN:HA	2.21	0.41
2:L:67:PHE:HZ	2:L:107:PHE:CD1	2.39	0.41
1:M:82:ASP:OD2	1:M:86:ARG:NE	2.53	0.41
1:M:211:GLN:HG3	2:N:205:GLN:HG3	2.01	0.41
2:N:37:VAL:HG11	2:N:45:VAL:HG13	2.02	0.41
2:N:38:ILE:CG2	2:N:40:ASP:HB2	2.50	0.41
2:N:39:PHE:O	2:N:62:GLN:HA	2.21	0.41
2:N:68:ASP:HB3	2:N:114:TYR:OH	2.21	0.41
1:O:144:VAL:HG21	1:O:164:ILE:HA	2.01	0.41
1:O:155:THR:OG1	1:O:156:GLN:HG3	2.21	0.41
2:P:28:TYR:HD2	2:P:57:LEU:HD23	1.81	0.41
2:P:39:PHE:O	2:P:62:GLN:HA	2.21	0.41
2:P:105:ARG:NE	1:Q:180:ASP:OD1	2.54	0.41
2:P:121:SER:CB	1:Q:184:ILE:C	2.94	0.41
2:P:259:TYR:HE1	1:Q:278:LEU:CB	2.30	0.41
1:Q:63:ILE:HD13	1:Q:115:GLN:C	2.45	0.41
1:Q:215:GLU:O	1:Q:219:GLN:HG2	2.21	0.41
2:R:68:ASP:HB3	2:R:114:TYR:OH	2.21	0.41
2:R:96:PHE:HB2	2:R:163:LEU:HD22	2.03	0.41
2:R:237:GLU:OE1	1:S:293:SER:HB2	2.21	0.41
1:S:90:ILE:HG22	1:S:138:ASN:OD1	2.21	0.41
1:S:253:LYS:HG2	2:T:241:LEU:CD1	2.45	0.41
2:T:32:ALA:C	2:T:34:HIS:H	2.29	0.41
2:T:37:VAL:HG11	2:T:45:VAL:HG13	2.02	0.41
2:T:91:THR:HB	2:T:171:THR:HB	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:221:ALA:O	2:T:222:GLU:C	2.63	0.41
1:U:41:PHE:CG	1:U:78:PRO:HB3	2.56	0.41
1:U:146:ALA:CB	2:V:140:ILE:HG22	2.51	0.41
1:U:236:LYS:O	1:U:240:GLU:OE1	2.39	0.41
1:U:238:LEU:HB3	2:V:235:LEU:HD13	2.03	0.41
2:V:68:ASP:HB3	2:V:114:TYR:OH	2.21	0.41
2:V:96:PHE:HB2	2:V:163:LEU:HD22	2.03	0.41
1:W:104:ILE:HG22	1:W:141:LEU:HD22	2.02	0.41
1:W:215:GLU:O	1:W:219:GLN:HG2	2.21	0.41
2:X:68:ASP:HB3	2:X:114:TYR:OH	2.21	0.41
1:A:209:ARG:O	1:A:212:PHE:CE1	2.74	0.41
1:A:284:ASP:HB2	1:W:275:ALA:CB	2.51	0.41
2:B:67:PHE:HZ	2:B:107:PHE:CD1	2.39	0.41
2:B:68:ASP:HB3	2:B:114:TYR:OH	2.21	0.41
2:B:92:LEU:CD2	2:B:123:THR:HG23	2.50	0.41
1:C:236:LYS:O	1:C:240:GLU:OE1	2.39	0.41
2:D:98:PRO:HA	2:D:163:LEU:HD23	2.01	0.41
2:D:236:ILE:HD13	1:E:250:LYS:CD	2.50	0.41
2:F:90:ILE:CD1	2:F:173:LEU:HD13	2.50	0.41
2:F:269:GLN:C	2:F:270:LEU:HD23	2.46	0.41
1:G:98:ASP:O	1:G:99:LEU:HB2	2.21	0.41
1:G:193:TYR:CE1	2:H:188:VAL:HA	2.56	0.41
2:H:32:ALA:C	2:H:34:HIS:H	2.29	0.41
2:H:37:VAL:HG11	2:H:45:VAL:HG13	2.02	0.41
2:H:49:VAL:HG11	2:H:100:ALA:O	2.21	0.41
2:H:90:ILE:CD1	2:H:173:LEU:HD13	2.50	0.41
2:J:270:LEU:HD22	1:K:272:TYR:HE2	1.85	0.41
1:K:41:PHE:CG	1:K:78:PRO:HB3	2.56	0.41
1:K:82:ASP:OD2	1:K:86:ARG:NE	2.54	0.41
2:L:68:ASP:HB3	2:L:114:TYR:OH	2.21	0.41
2:L:90:ILE:HA	2:L:172:HIS:O	2.21	0.41
2:L:106:ILE:HA	2:L:110:ILE:HB	2.01	0.41
1:M:209:ARG:O	1:M:212:PHE:CE1	2.74	0.41
2:N:235:LEU:HA	2:N:235:LEU:HD12	1.91	0.41
1:Q:68:LEU:C	1:Q:69:HIS:CG	2.99	0.41
1:Q:155:THR:OG1	1:Q:156:GLN:HG3	2.21	0.41
1:Q:289:ARG:HD2	1:Q:290:GLY:N	2.35	0.41
2:R:211:ILE:CD1	1:S:233:GLU:CD	2.93	0.41
1:S:252:ARG:CD	2:T:245:GLU:CD	2.94	0.41
2:T:92:LEU:CD2	2:T:123:THR:HG23	2.50	0.41
2:T:240:LYS:C	2:T:241:LEU:HG	2.43	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:51:PHE:CE1	1:U:69:HIS:HB3	2.56	0.41
1:U:209:ARG:O	1:U:212:PHE:CE1	2.74	0.41
2:V:32:ALA:C	2:V:34:HIS:H	2.29	0.41
1:A:155:THR:OG1	1:A:156:GLN:HG3	2.21	0.40
2:B:140:ILE:CG1	2:B:173:LEU:HD21	2.51	0.40
1:C:41:PHE:CG	1:C:78:PRO:HB3	2.56	0.40
1:C:175:PHE:CZ	2:D:167:ASP:CB	3.05	0.40
2:D:239:ARG:NE	1:E:258:GLN:OE1	2.53	0.40
1:G:51:PHE:CE1	1:G:69:HIS:HB3	2.56	0.40
1:G:62:THR:HG22	1:G:64:LEU:CD2	2.47	0.40
2:H:140:ILE:CG1	2:H:173:LEU:HD21	2.51	0.40
1:I:51:PHE:CE1	1:I:69:HIS:HB3	2.56	0.40
1:I:54:ARG:HB3	1:I:75:PHE:CE1	2.56	0.40
1:I:81:TYR:CE2	1:I:117:LEU:HB3	2.57	0.40
1:I:209:ARG:O	1:I:212:PHE:CE1	2.74	0.40
2:J:82:SER:HB3	2:J:139:LEU:HD11	2.03	0.40
1:M:104:ILE:HG22	1:M:141:LEU:HD22	2.02	0.40
1:M:241:ALA:HB3	1:M:242:LEU:HG	2.03	0.40
2:N:90:ILE:HA	2:N:172:HIS:O	2.21	0.40
2:N:140:ILE:CG1	2:N:173:LEU:HD21	2.51	0.40
1:O:98:ASP:O	1:O:99:LEU:HB2	2.21	0.40
2:P:37:VAL:HG11	2:P:45:VAL:HG13	2.02	0.40
2:P:90:ILE:HA	2:P:172:HIS:O	2.21	0.40
1:Q:71:ARG:O	1:Q:71:ARG:HG3	2.20	0.40
2:R:58:ILE:HB	2:R:61:VAL:CG1	2.50	0.40
2:R:193:ALA:CA	1:S:219:GLN:NE2	2.83	0.40
1:S:81:TYR:CE2	1:S:117:LEU:HB3	2.57	0.40
1:U:215:GLU:O	1:U:219:GLN:HG2	2.21	0.40
2:V:38:ILE:CG2	2:V:40:ASP:HB2	2.50	0.40
2:V:49:VAL:HG11	2:V:100:ALA:O	2.21	0.40
2:V:221:ALA:O	2:V:222:GLU:C	2.63	0.40
2:V:250:GLN:HG3	1:W:262:LYS:CG	2.51	0.40
1:W:209:ARG:O	1:W:212:PHE:CE1	2.74	0.40
2:X:39:PHE:O	2:X:62:GLN:HA	2.21	0.40
2:X:269:GLN:C	2:X:270:LEU:HD23	2.46	0.40
2:B:58:ILE:HB	2:B:61:VAL:CG1	2.50	0.40
2:B:240:LYS:C	2:B:241:LEU:HG	2.43	0.40
2:B:267:LEU:CD2	2:D:267:LEU:HD13	2.51	0.40
1:C:155:THR:OG1	1:C:156:GLN:HG3	2.21	0.40
2:D:140:ILE:HD12	2:D:175:PHE:CZ	2.57	0.40
2:F:140:ILE:CG1	2:F:173:LEU:HD21	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:81:TYR:CE2	1:G:117:LEU:HB3	2.56	0.40
1:G:278:LEU:CA	1:G:279:VAL:HG23	2.51	0.40
2:H:39:PHE:O	2:H:62:GLN:HA	2.21	0.40
1:I:293:SER:HB2	1:I:299:LYS:CG	2.52	0.40
2:J:85:LEU:HD22	1:K:154:ILE:HG22	2.03	0.40
1:K:209:ARG:O	1:K:212:PHE:CE1	2.74	0.40
1:K:293:SER:HB2	1:K:299:LYS:CG	2.52	0.40
2:L:82:SER:HB3	2:L:139:LEU:HD11	2.03	0.40
2:N:96:PHE:HB2	2:N:163:LEU:HD22	2.03	0.40
1:O:256:ALA:O	1:O:260:ILE:HB	2.22	0.40
2:P:32:ALA:C	2:P:34:HIS:H	2.29	0.40
2:P:96:PHE:HB2	2:P:163:LEU:HD22	2.03	0.40
1:Q:95:GLY:H	1:Q:142:LYS:HE2	1.85	0.40
2:R:215:GLU:CG	1:S:237:MET:CE	2.97	0.40
1:S:253:LYS:N	2:T:241:LEU:HB3	2.35	0.40
2:T:41:ARG:NE	1:U:44:GLU:HA	2.37	0.40
2:T:67:PHE:HZ	2:T:107:PHE:CD1	2.39	0.40
2:T:68:ASP:HB3	2:T:114:TYR:OH	2.21	0.40
1:U:98:ASP:O	1:U:99:LEU:HB2	2.21	0.40
1:U:104:ILE:HG22	1:U:141:LEU:HD22	2.02	0.40
2:V:140:ILE:CG1	2:V:173:LEU:HD21	2.51	0.40
2:V:246:ASP:HB2	1:W:258:GLN:NE2	2.36	0.40
1:W:81:TYR:CE2	1:W:117:LEU:HB3	2.57	0.40
1:W:293:SER:HB2	1:W:299:LYS:CG	2.52	0.40
2:X:35:ARG:O	2:X:103:LEU:HD13	2.22	0.40
2:X:90:ILE:CD1	2:X:173:LEU:HD13	2.50	0.40
2:X:260:LEU:CD1	2:X:268:LEU:HD21	2.45	0.40
2:B:32:ALA:C	2:B:34:HIS:H	2.29	0.40
2:B:260:LEU:CD2	2:B:268:LEU:CD2	2.98	0.40
1:C:79:ILE:HG21	1:C:121:TYR:CG	2.57	0.40
1:C:215:GLU:O	1:C:219:GLN:HG2	2.21	0.40
2:D:32:ALA:C	2:D:34:HIS:H	2.29	0.40
2:F:35:ARG:O	2:F:103:LEU:HD13	2.22	0.40
2:F:39:PHE:O	2:F:62:GLN:HA	2.21	0.40
2:F:49:VAL:HG21	2:F:101:SER:CA	2.43	0.40
2:F:243:ALA:HB1	2:F:247:ILE:CD1	2.51	0.40
1:G:209:ARG:O	1:G:212:PHE:CE1	2.74	0.40
1:G:289:ARG:HD2	1:G:290:GLY:N	2.35	0.40
2:H:140:ILE:HD12	2:H:175:PHE:CZ	2.57	0.40
1:I:215:GLU:O	1:I:219:GLN:HG2	2.21	0.40
1:I:289:ARG:HD2	1:I:290:GLY:N	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:68:LEU:C	1:K:69:HIS:CG	2.99	0.40
1:K:215:GLU:O	1:K:219:GLN:HG2	2.21	0.40
1:K:224:LYS:O	2:L:219:LYS:CE	2.69	0.40
1:K:256:ALA:O	1:K:260:ILE:HB	2.22	0.40
2:N:248:ALA:HA	2:N:251:LEU:HB2	2.02	0.40
1:O:58:VAL:HB	1:O:122:GLN:HG3	2.03	0.40
2:P:117:ARG:HG2	1:Q:107:ARG:NH2	2.35	0.40
1:Q:41:PHE:CG	1:Q:78:PRO:HB3	2.56	0.40
1:Q:51:PHE:CE1	1:Q:69:HIS:HB3	2.56	0.40
1:Q:249:ILE:HG13	2:R:241:LEU:HB2	2.03	0.40
2:R:49:VAL:HG11	2:R:100:ALA:O	2.21	0.40
2:R:92:LEU:CD2	2:R:123:THR:HG23	2.50	0.40
2:R:97:ARG:O	2:R:98:PRO:C	2.61	0.40
2:R:259:TYR:OH	1:S:281:ASN:CB	2.69	0.40
1:S:51:PHE:CE1	1:S:69:HIS:HB3	2.56	0.40
1:S:256:ALA:O	1:S:260:ILE:HB	2.22	0.40
2:V:140:ILE:HD12	2:V:175:PHE:CZ	2.57	0.40
1:W:90:ILE:CD1	1:W:134:PRO:HA	2.52	0.40
1:W:95:GLY:H	1:W:142:LYS:HE2	1.85	0.40
2:X:96:PHE:HB2	2:X:163:LEU:HD22	2.03	0.40
1:A:58:VAL:HB	1:A:122:GLN:HG3	2.02	0.40
1:A:236:LYS:O	1:A:240:GLU:OE1	2.39	0.40
2:B:49:VAL:HG11	2:B:100:ALA:O	2.21	0.40
1:C:293:SER:HB2	1:C:299:LYS:CG	2.52	0.40
2:D:49:VAL:HG11	2:D:100:ALA:O	2.21	0.40
2:D:260:LEU:CD1	2:D:268:LEU:HD21	2.45	0.40
1:E:71:ARG:O	1:E:71:ARG:HG3	2.20	0.40
1:E:209:ARG:O	1:E:212:PHE:CE1	2.74	0.40
1:E:273:LEU:CD2	1:G:280:LEU:HD13	2.51	0.40
2:H:91:THR:HB	2:H:171:THR:HB	2.03	0.40
2:H:254:SER:HB3	2:H:257:ILE:HD11	2.04	0.40
1:I:104:ILE:HG22	1:I:141:LEU:HD22	2.02	0.40
1:I:241:ALA:HB3	1:I:242:LEU:HG	2.03	0.40
2:J:38:ILE:CG2	2:J:40:ASP:HB2	2.50	0.40
2:J:42:PHE:CD1	1:K:68:LEU:HD13	2.57	0.40
2:L:93:ARG:NE	2:L:95:LEU:HD21	2.17	0.40
2:L:243:ALA:HB1	2:L:247:ILE:CD1	2.51	0.40
1:M:71:ARG:O	1:M:71:ARG:HG3	2.20	0.40
1:M:121:TYR:CE2	2:N:32:ALA:CA	3.05	0.40
1:M:122:GLN:NE2	2:N:35:ARG:NH2	2.69	0.40
2:N:35:ARG:O	2:N:103:LEU:HD13	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:51:PHE:CE1	1:O:69:HIS:HB3	2.56	0.40
1:O:278:LEU:CA	1:O:279:VAL:HG23	2.51	0.40
1:O:293:SER:HB2	1:O:299:LYS:CG	2.52	0.40
2:P:125:GLU:CG	1:Q:161:SER:HB3	2.51	0.40
2:P:157:ARG:NH2	1:Q:165:ARG:NH2	2.69	0.40
2:P:235:LEU:HD12	2:P:235:LEU:HA	1.91	0.40
2:R:39:PHE:O	2:R:62:GLN:HA	2.21	0.40
2:R:140:ILE:CG1	2:R:173:LEU:HD21	2.51	0.40
1:S:68:LEU:C	1:S:69:HIS:CG	2.99	0.40
1:S:209:ARG:O	1:S:212:PHE:CE1	2.74	0.40
1:S:289:ARG:HD2	1:S:290:GLY:N	2.35	0.40
2:T:82:SER:HB3	2:T:139:LEU:HD11	2.03	0.40
2:T:90:ILE:HA	2:T:172:HIS:O	2.21	0.40
2:T:140:ILE:CG1	2:T:173:LEU:HD21	2.51	0.40
2:T:269:GLN:C	2:T:270:LEU:HD23	2.46	0.40
1:U:267:SER:CB	2:V:252:SER:HA	2.52	0.40
2:V:91:THR:HB	2:V:171:THR:HB	2.02	0.40
1:W:68:LEU:C	1:W:69:HIS:CG	2.99	0.40
1:W:79:ILE:HG21	1:W:121:TYR:CG	2.57	0.40
1:W:90:ILE:HG22	1:W:138:ASN:OD1	2.21	0.40
1:W:155:THR:OG1	1:W:156:GLN:HG3	2.21	0.40
1:W:289:ARG:HD2	1:W:290:GLY:N	2.35	0.40
2:X:90:ILE:HA	2:X:172:HIS:O	2.21	0.40
1:A:104:ILE:HG22	1:A:141:LEU:HD22	2.02	0.40
2:B:269:GLN:C	2:B:270:LEU:HD23	2.46	0.40
1:C:98:ASP:O	1:C:99:LEU:HB2	2.21	0.40
1:C:241:ALA:HB3	1:C:242:LEU:HG	2.03	0.40
2:D:248:ALA:HA	2:D:251:LEU:HB2	2.02	0.40
2:F:90:ILE:HA	2:F:172:HIS:O	2.21	0.40
1:G:104:ILE:HG22	1:G:141:LEU:HD22	2.02	0.40
2:H:28:TYR:H	2:H:54:THR:HG23	1.85	0.40
2:H:221:ALA:O	2:H:222:GLU:C	2.63	0.40
1:I:79:ILE:HG21	1:I:121:TYR:CG	2.57	0.40
2:J:90:ILE:HA	2:J:172:HIS:O	2.21	0.40
2:J:110:ILE:HD13	2:J:161:PHE:O	2.22	0.40
1:K:51:PHE:CE1	1:K:69:HIS:HB3	2.56	0.40
1:K:54:ARG:HB3	1:K:75:PHE:CE1	2.56	0.40
1:K:274:THR:HG21	2:L:261:PRO:HB3	2.03	0.40
2:L:96:PHE:HB2	2:L:163:LEU:HD22	2.03	0.40
2:L:110:ILE:HD13	2:L:161:PHE:O	2.22	0.40
1:M:52:PHE:HE1	2:N:52:GLU:HB3	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:140:ILE:HD12	2:N:175:PHE:CZ	2.57	0.40
2:N:268:LEU:HD12	2:P:260:LEU:CD2	2.51	0.40
1:O:41:PHE:CG	1:O:78:PRO:HB3	2.56	0.40
1:O:54:ARG:HB3	1:O:75:PHE:CE1	2.56	0.40
2:P:41:ARG:O	1:Q:49:ALA:CB	2.69	0.40
2:P:82:SER:HB3	2:P:139:LEU:HD11	2.03	0.40
2:P:107:PHE:CZ	1:Q:84:ARG:CG	3.04	0.40
2:P:107:PHE:HZ	1:Q:84:ARG:CD	2.35	0.40
2:R:28:TYR:H	2:R:54:THR:HG23	1.85	0.40
2:R:103:LEU:O	2:R:104:PRO:C	2.64	0.40
2:R:139:LEU:O	2:R:143:ARG:HA	2.22	0.40
2:R:140:ILE:HD12	2:R:175:PHE:CZ	2.57	0.40
2:R:235:LEU:HA	2:R:235:LEU:HD12	1.91	0.40
2:R:254:SER:HB3	2:R:257:ILE:HD11	2.04	0.40
2:T:58:ILE:HB	2:T:61:VAL:CG1	2.51	0.40
2:T:254:SER:HB3	2:T:257:ILE:HD11	2.04	0.40
2:V:221:ALA:C	1:W:242:LEU:HD21	2.47	0.40
2:V:254:SER:HB3	2:V:257:ILE:HD11	2.04	0.40
2:V:260:LEU:HD13	2:V:268:LEU:CD2	2.44	0.40
1:W:82:ASP:OD2	1:W:86:ARG:NE	2.54	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	297/299 (99%)	244 (82%)	52 (18%)	1 (0%)	37	73
1	C	297/299 (99%)	243 (82%)	53 (18%)	1 (0%)	37	73
1	E	297/299 (99%)	243 (82%)	53 (18%)	1 (0%)	37	73
1	G	297/299 (99%)	244 (82%)	52 (18%)	1 (0%)	37	73

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	I	297/299 (99%)	243 (82%)	53 (18%)	1 (0%)	37	73
1	K	297/299 (99%)	243 (82%)	53 (18%)	1 (0%)	37	73
1	M	297/299 (99%)	244 (82%)	52 (18%)	1 (0%)	37	73
1	O	297/299 (99%)	244 (82%)	52 (18%)	1 (0%)	37	73
1	Q	297/299 (99%)	244 (82%)	52 (18%)	1 (0%)	37	73
1	S	297/299 (99%)	244 (82%)	52 (18%)	1 (0%)	37	73
1	U	297/299 (99%)	244 (82%)	52 (18%)	1 (0%)	37	73
1	W	297/299 (99%)	243 (82%)	53 (18%)	1 (0%)	37	73
2	B	270/272 (99%)	229 (85%)	41 (15%)	0	100	100
2	D	270/272 (99%)	229 (85%)	41 (15%)	0	100	100
2	F	270/272 (99%)	228 (84%)	42 (16%)	0	100	100
2	H	270/272 (99%)	228 (84%)	42 (16%)	0	100	100
2	J	270/272 (99%)	229 (85%)	41 (15%)	0	100	100
2	L	270/272 (99%)	229 (85%)	41 (15%)	0	100	100
2	N	270/272 (99%)	228 (84%)	42 (16%)	0	100	100
2	P	270/272 (99%)	229 (85%)	41 (15%)	0	100	100
2	R	270/272 (99%)	229 (85%)	41 (15%)	0	100	100
2	T	270/272 (99%)	229 (85%)	41 (15%)	0	100	100
2	V	270/272 (99%)	228 (84%)	42 (16%)	0	100	100
2	X	270/272 (99%)	228 (84%)	42 (16%)	0	100	100
All	All	6804/6852 (99%)	5666 (83%)	1126 (16%)	12 (0%)	45	78

All (12) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	279	VAL
1	C	279	VAL
1	E	279	VAL
1	G	279	VAL
1	I	279	VAL
1	K	279	VAL
1	M	279	VAL
1	O	279	VAL
1	Q	279	VAL
1	S	279	VAL

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Mol	Chain	Res	Type
1	U	279	VAL
1	W	279	VAL

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	248/248 (100%)	248 (100%)	0	100	100
1	C	248/248 (100%)	248 (100%)	0	100	100
1	E	248/248 (100%)	248 (100%)	0	100	100
1	G	248/248 (100%)	248 (100%)	0	100	100
1	I	248/248 (100%)	248 (100%)	0	100	100
1	K	248/248 (100%)	248 (100%)	0	100	100
1	M	248/248 (100%)	248 (100%)	0	100	100
1	O	248/248 (100%)	248 (100%)	0	100	100
1	Q	248/248 (100%)	248 (100%)	0	100	100
1	S	248/248 (100%)	248 (100%)	0	100	100
1	U	248/248 (100%)	248 (100%)	0	100	100
1	W	248/248 (100%)	248 (100%)	0	100	100
2	B	224/224 (100%)	224 (100%)	0	100	100
2	D	224/224 (100%)	224 (100%)	0	100	100
2	F	224/224 (100%)	224 (100%)	0	100	100
2	H	224/224 (100%)	224 (100%)	0	100	100
2	J	224/224 (100%)	224 (100%)	0	100	100
2	L	224/224 (100%)	224 (100%)	0	100	100
2	N	224/224 (100%)	224 (100%)	0	100	100
2	P	224/224 (100%)	224 (100%)	0	100	100
2	R	224/224 (100%)	224 (100%)	0	100	100
2	T	224/224 (100%)	224 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	V	224/224 (100%)	224 (100%)	0	100	100
2	X	224/224 (100%)	224 (100%)	0	100	100
All	All	5664/5664 (100%)	5664 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (67) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	60	GLN
1	A	69	HIS
2	B	34	HIS
2	B	55	HIS
2	B	272	GLN
1	C	60	GLN
1	C	69	HIS
2	D	34	HIS
2	D	55	HIS
2	D	256	ASN
2	D	269	GLN
2	D	272	GLN
1	E	60	GLN
1	E	69	HIS
1	E	219	GLN
1	E	268	GLN
2	F	34	HIS
2	F	55	HIS
1	G	60	GLN
1	G	69	HIS
2	H	34	HIS
2	H	55	HIS
1	I	60	GLN
1	I	69	HIS
1	I	268	GLN
1	I	283	GLN
2	J	34	HIS
2	J	55	HIS
1	K	60	GLN
1	K	283	GLN
2	L	34	HIS
2	L	55	HIS

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Mol	Chain	Res	Type
1	M	60	GLN
1	M	219	GLN
2	N	34	HIS
2	N	55	HIS
2	N	269	GLN
1	O	60	GLN
1	O	69	HIS
1	O	268	GLN
2	P	34	HIS
2	P	55	HIS
2	P	86	GLN
1	Q	60	GLN
1	Q	69	HIS
1	Q	221	GLN
1	Q	268	GLN
2	R	34	HIS
2	R	55	HIS
1	S	60	GLN
1	S	219	GLN
1	S	268	GLN
2	T	34	HIS
2	T	55	HIS
1	U	60	GLN
1	U	69	HIS
1	U	268	GLN
1	U	283	GLN
2	V	34	HIS
2	V	55	HIS
1	W	60	GLN
1	W	69	HIS
1	W	258	GLN
1	W	268	GLN
1	W	277	ASN
2	X	34	HIS
2	X	55	HIS

5.3.3 RNA

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 oligosaccharides in this entry.

5.6 Ligand geometry (i)

There are no ligands in this entry.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

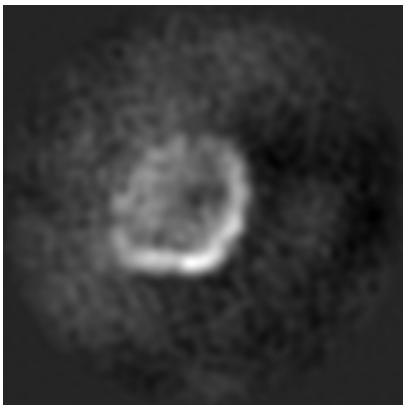
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-70179. These allow visual inspection of the internal detail of the map and identification of artifacts.

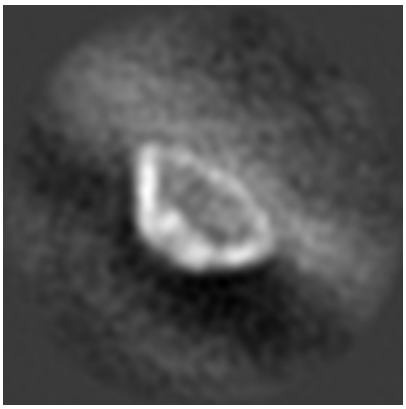
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

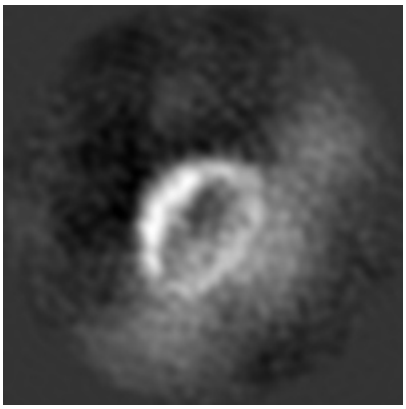
6.1.1 Primary map



X

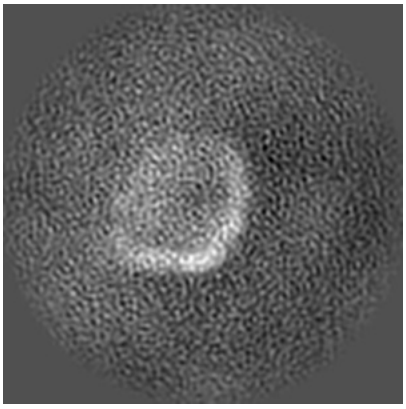


Y

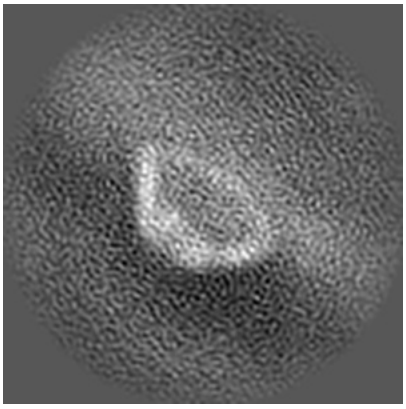


Z

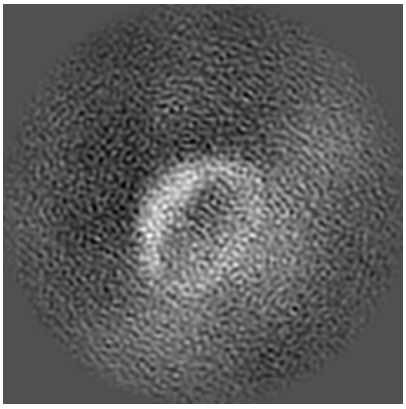
6.1.2 Raw map



X



Y

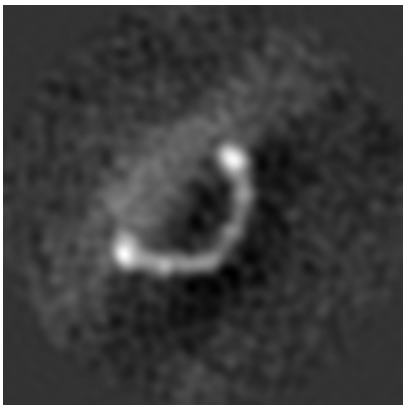


Z

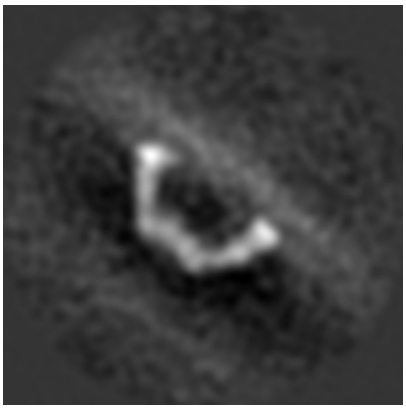
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

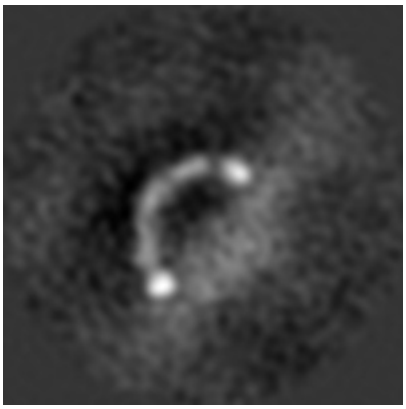
6.2.1 Primary map



X Index: 60

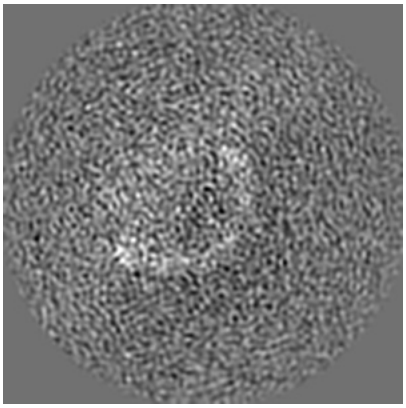


Y Index: 60

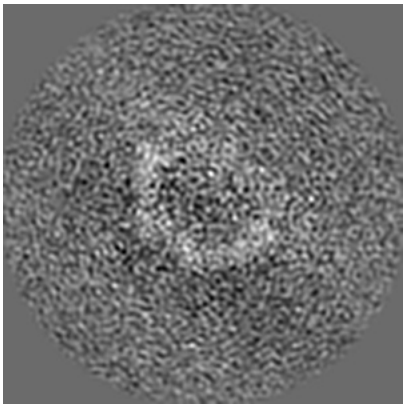


Z Index: 60

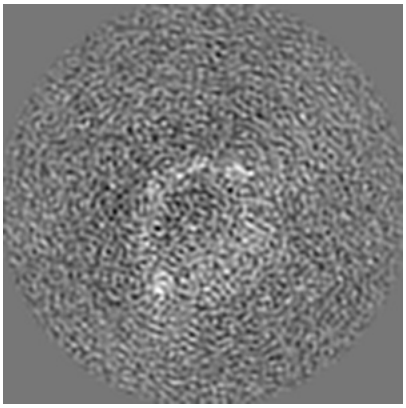
6.2.2 Raw map



X Index: 60



Y Index: 60

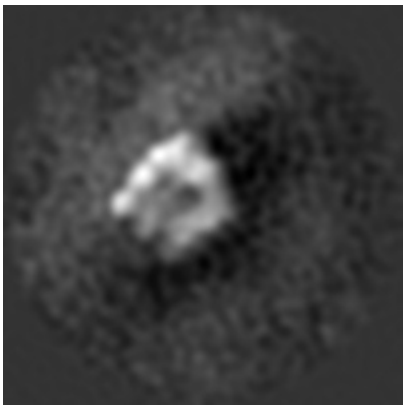


Z Index: 60

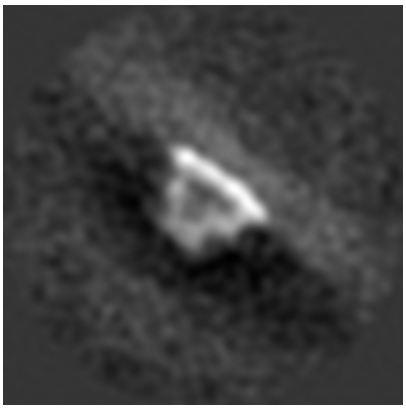
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

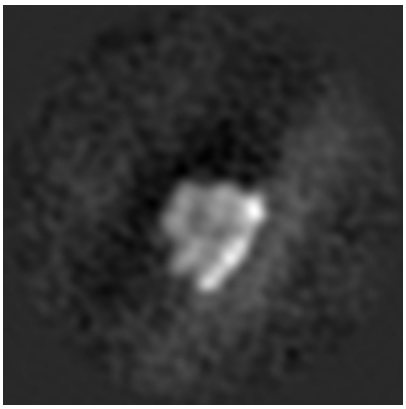
6.3.1 Primary map



X Index: 45

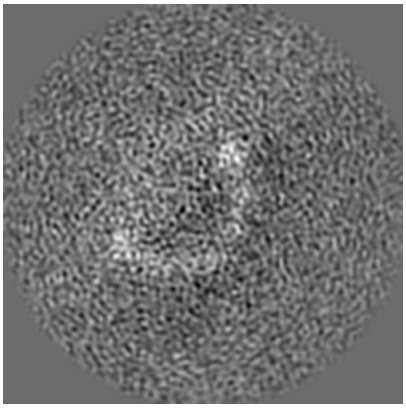


Y Index: 69

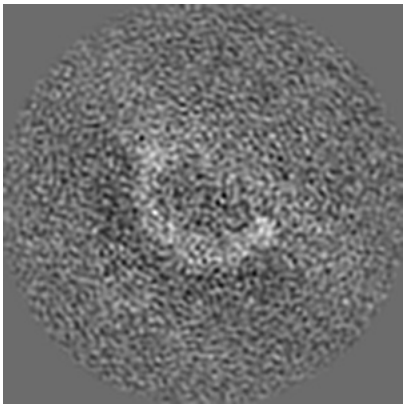


Z Index: 43

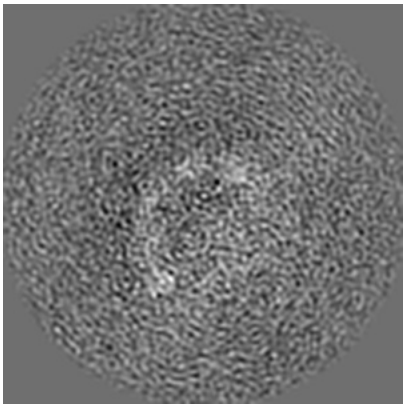
6.3.2 Raw map



X Index: 59



Y Index: 61

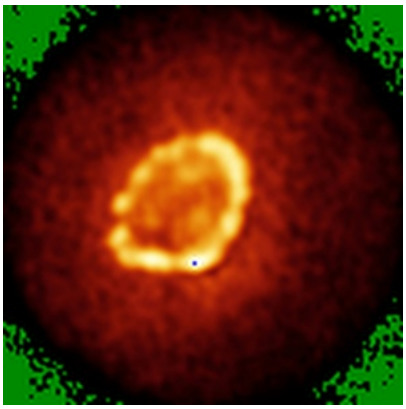


Z Index: 61

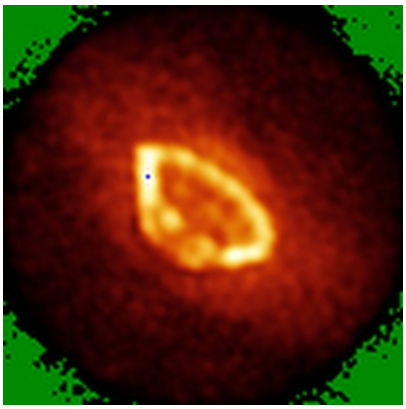
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

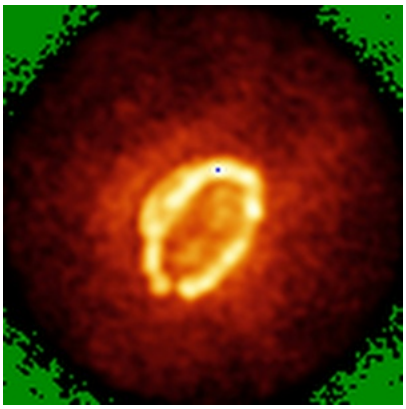
6.4.1 Primary map



X

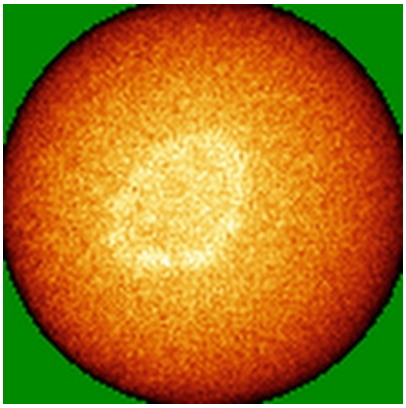


Y

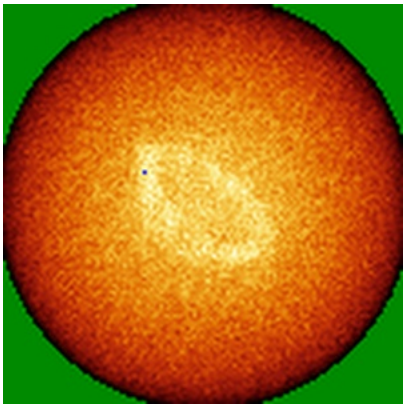


Z

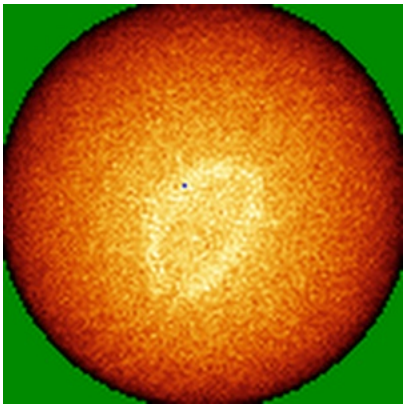
6.4.2 Raw map



X



Y

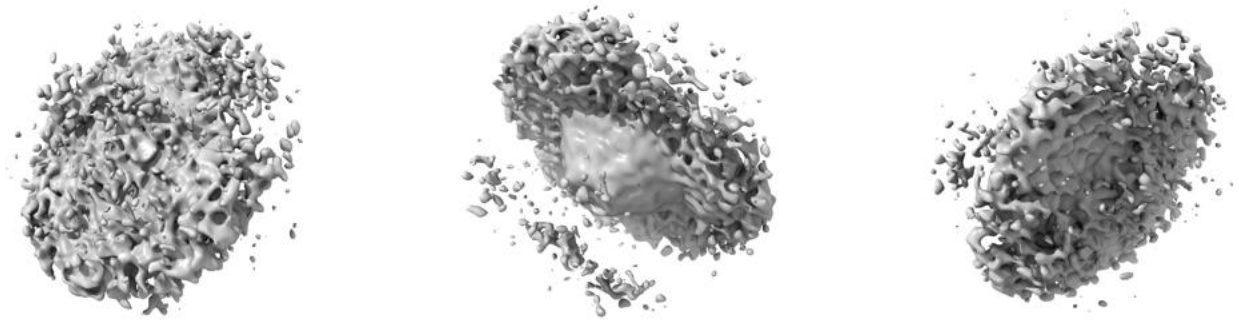


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views (i)

6.5.1 Primary map



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.0002. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map

X Y Z

These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

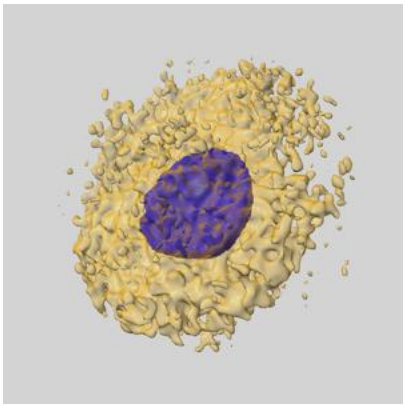
6.6 Mask visualisation

This section shows the 3D surface view of the primary map at 50% transparency overlaid with the specified mask at 0% transparency

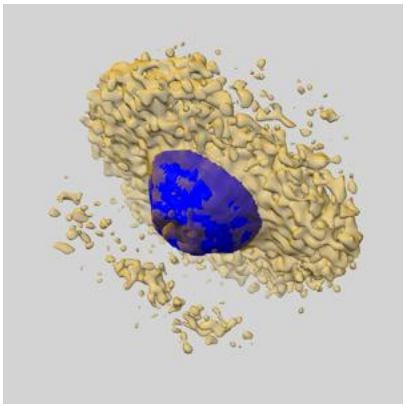
A mask typically either:

- Encompasses the whole structure
- Separates out a domain, a functional unit, a monomer or an area of interest from a larger structure

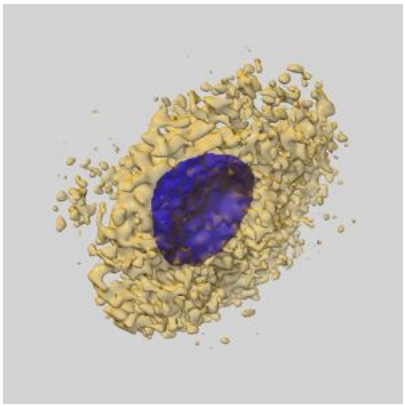
6.6.1 emd_70179_msk_1.map



X



Y

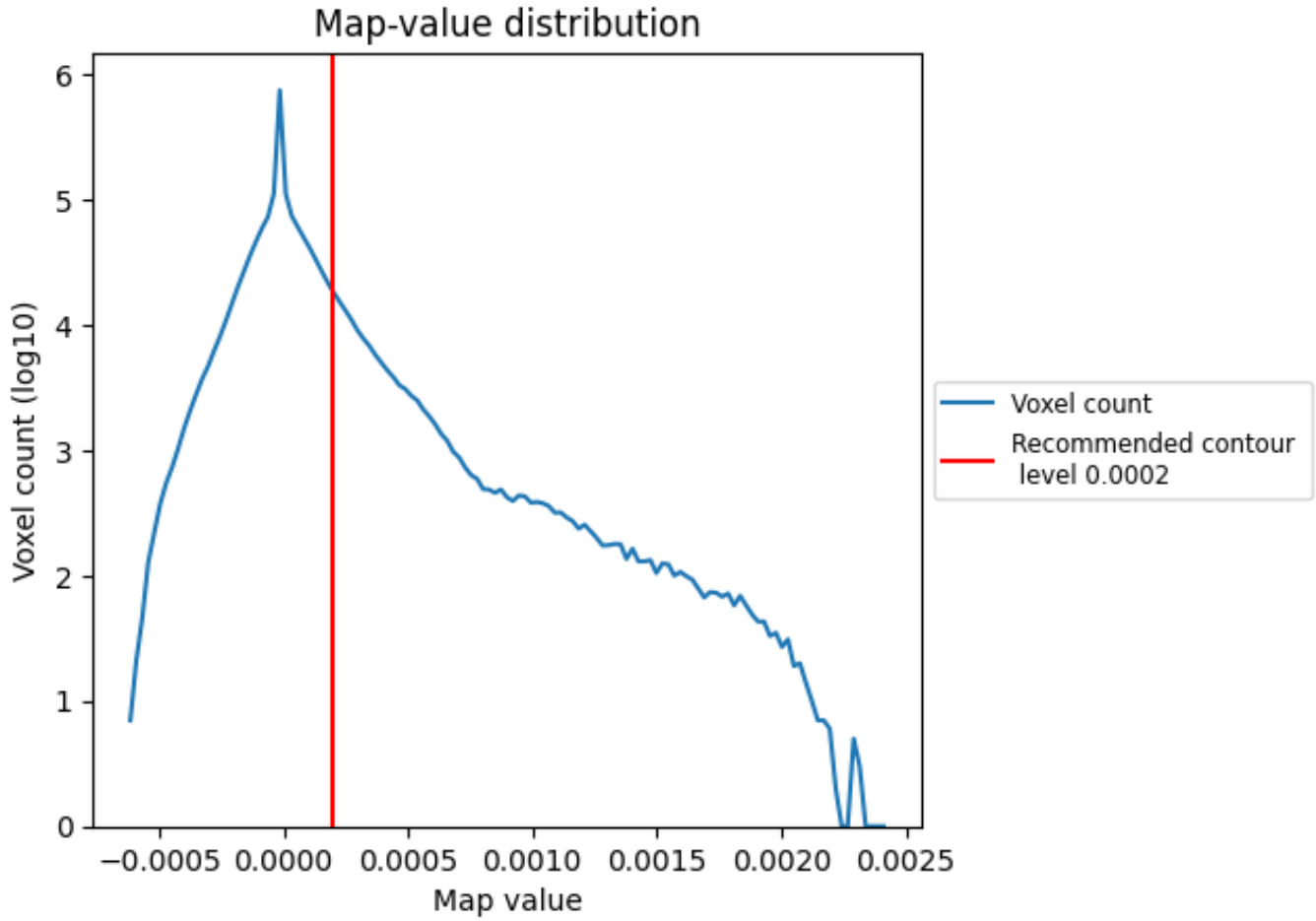


Z

7 Map analysis

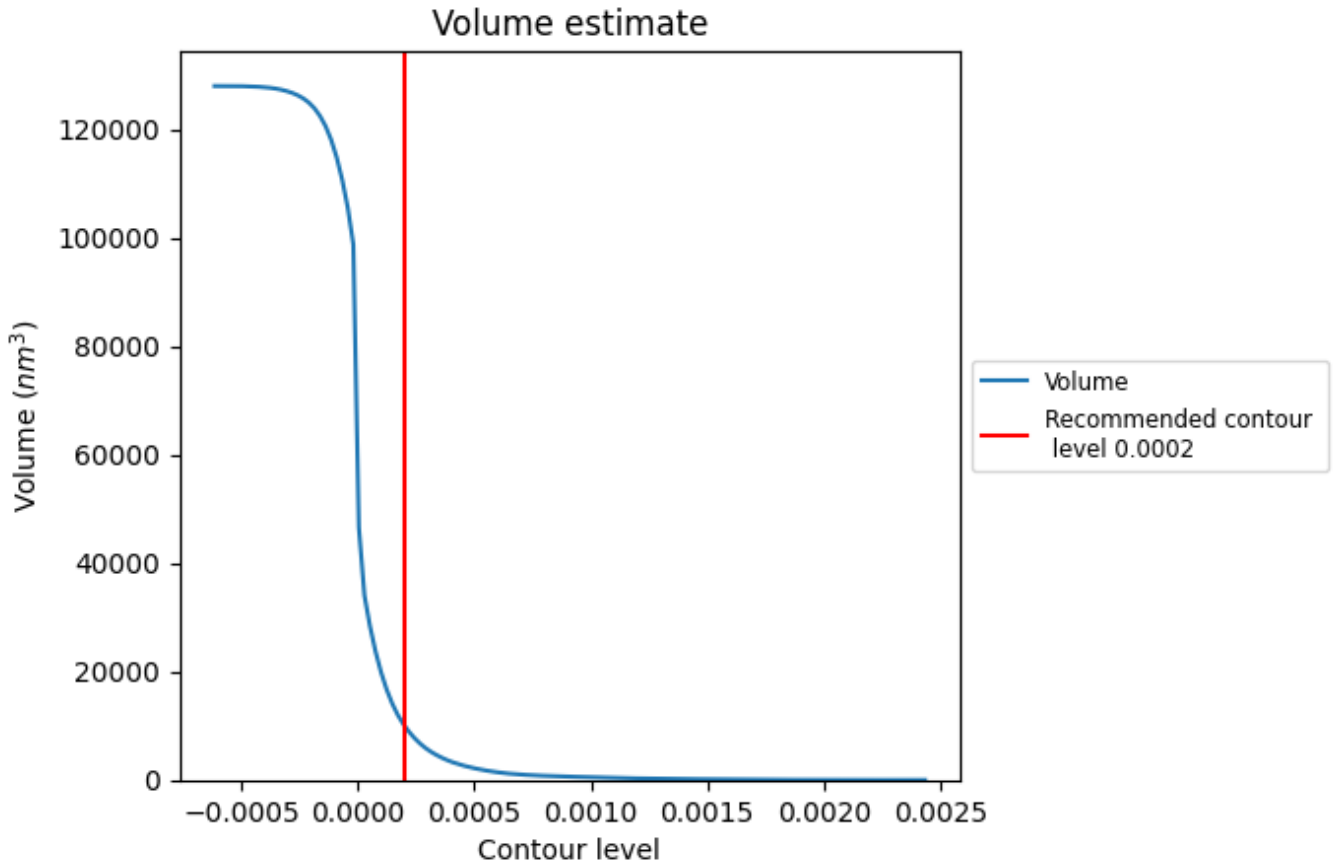
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

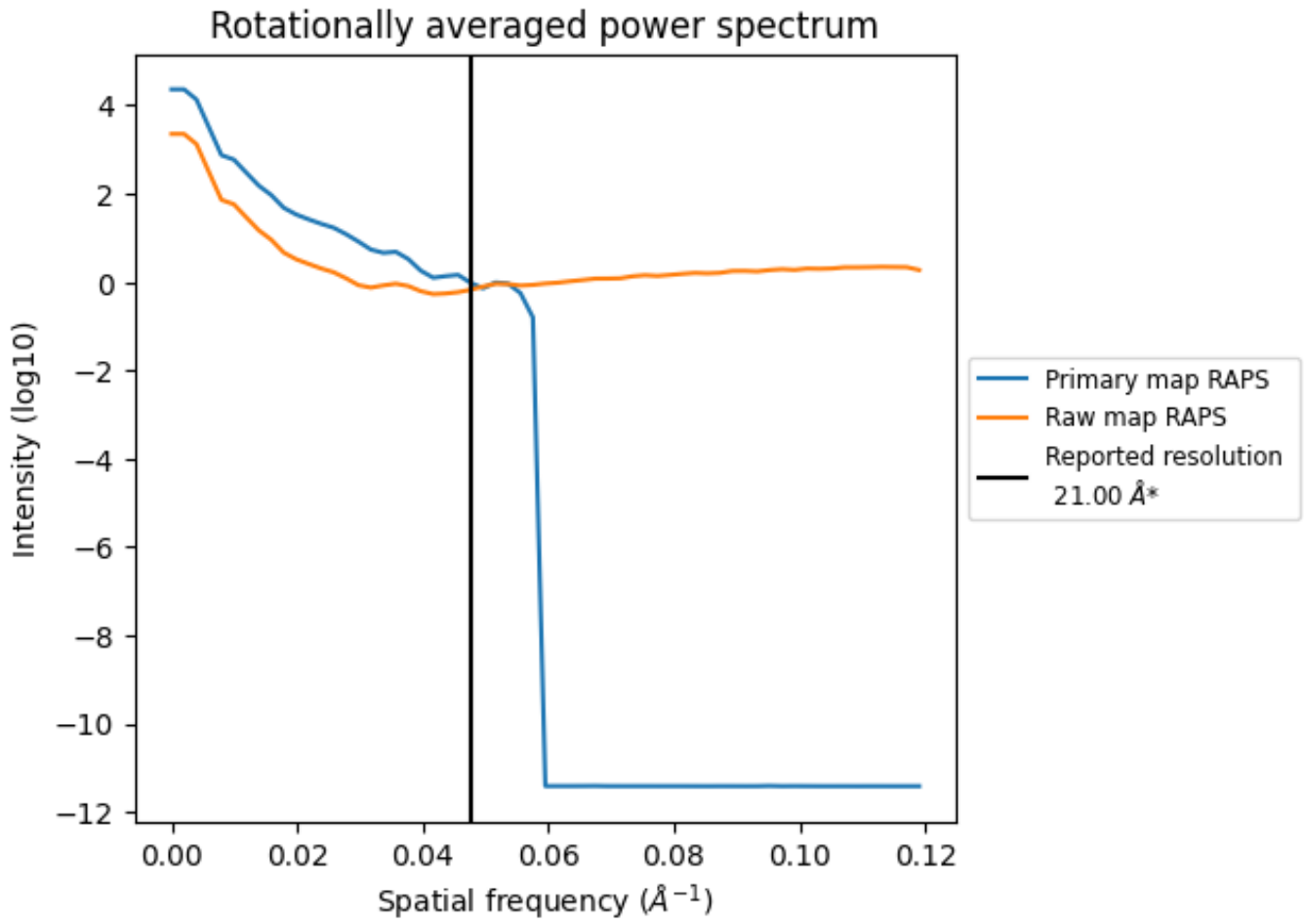
7.2 Volume estimate



The volume at the recommended contour level is 10031 nm^3; this corresponds to an approximate mass of 9062 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)

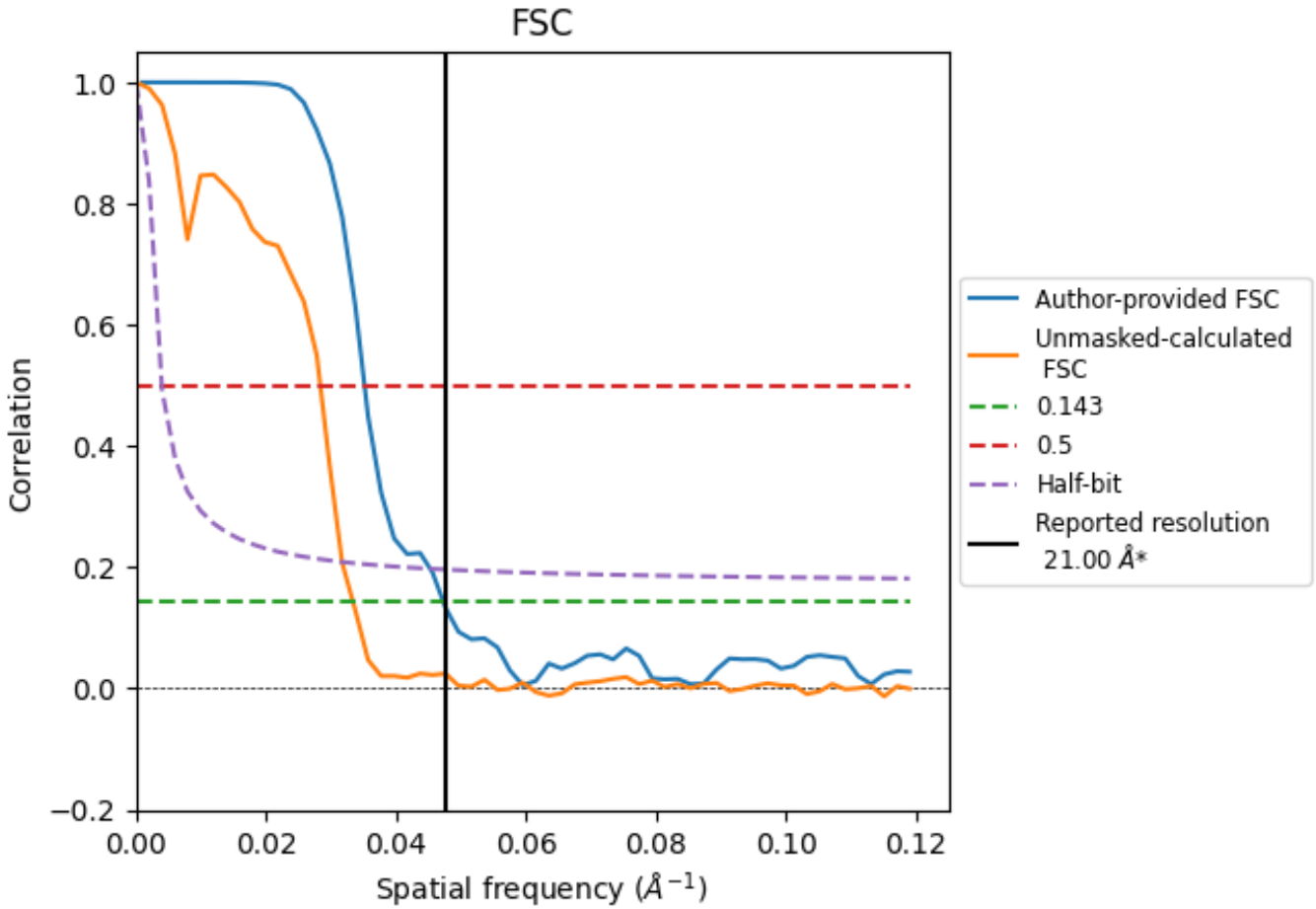


*Reported resolution corresponds to spatial frequency of 0.048 Å^{-1}

8 Fourier-Shell correlation

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC



*Reported resolution corresponds to spatial frequency of 0.048 Å^{-1}

8.2 Resolution estimates (i)

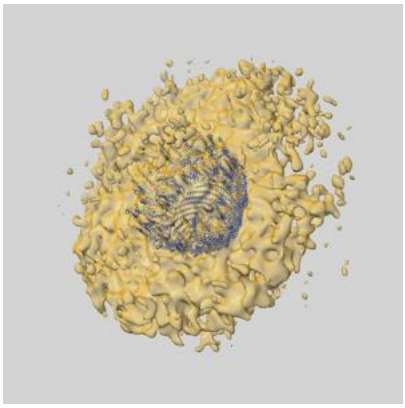
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	21.00	-	-
Author-provided FSC curve	21.14	28.41	22.08
Unmasked-calculated*	29.94	35.34	31.55

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 29.94 differs from the reported value 21.0 by more than 10 %

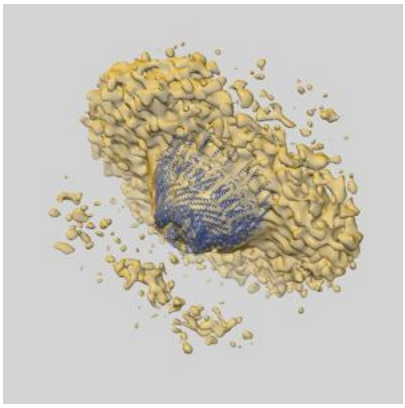
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-70179 and PDB model 9O6S. Per-residue inclusion information can be found in section 3 on page 6.

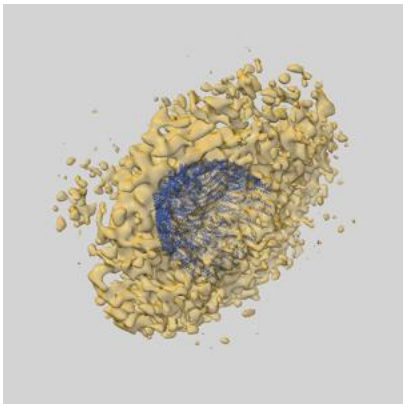
9.1 Map-model overlay



X



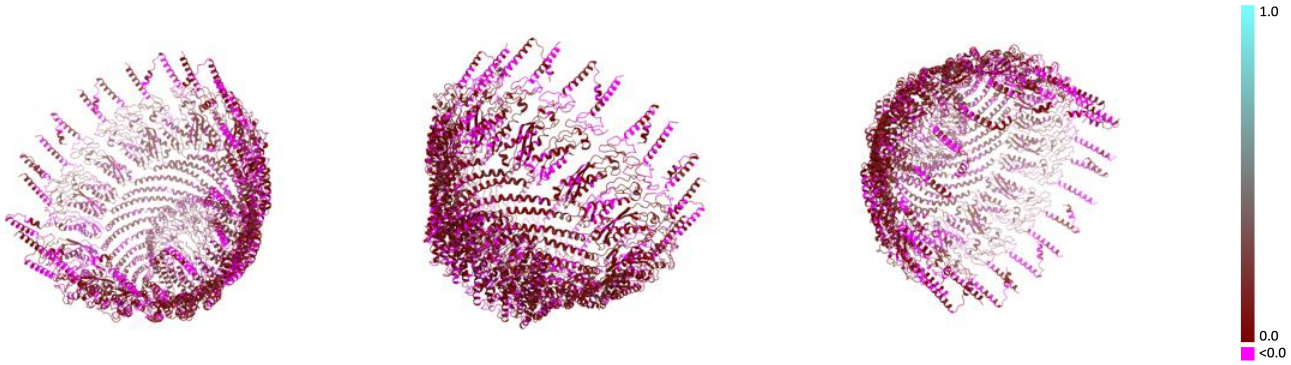
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.0002 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

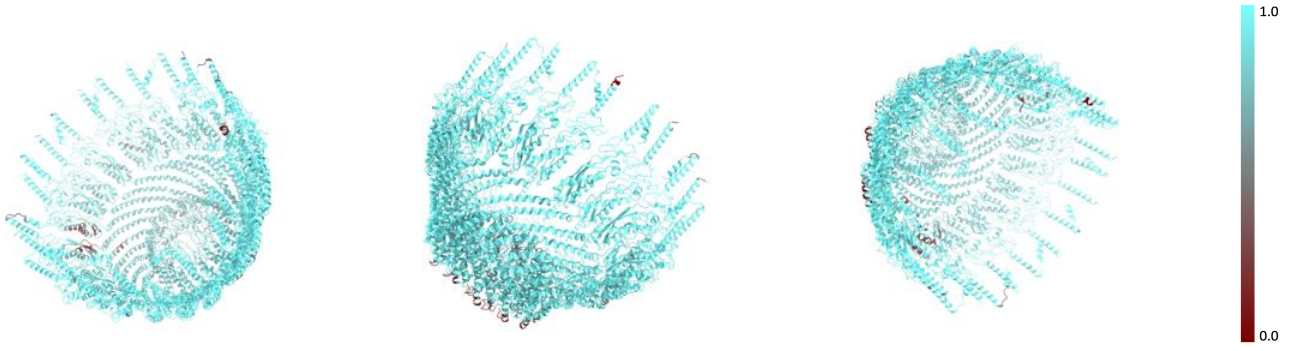
9.2 Q-score mapped to coordinate model (i)



X Y Z

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

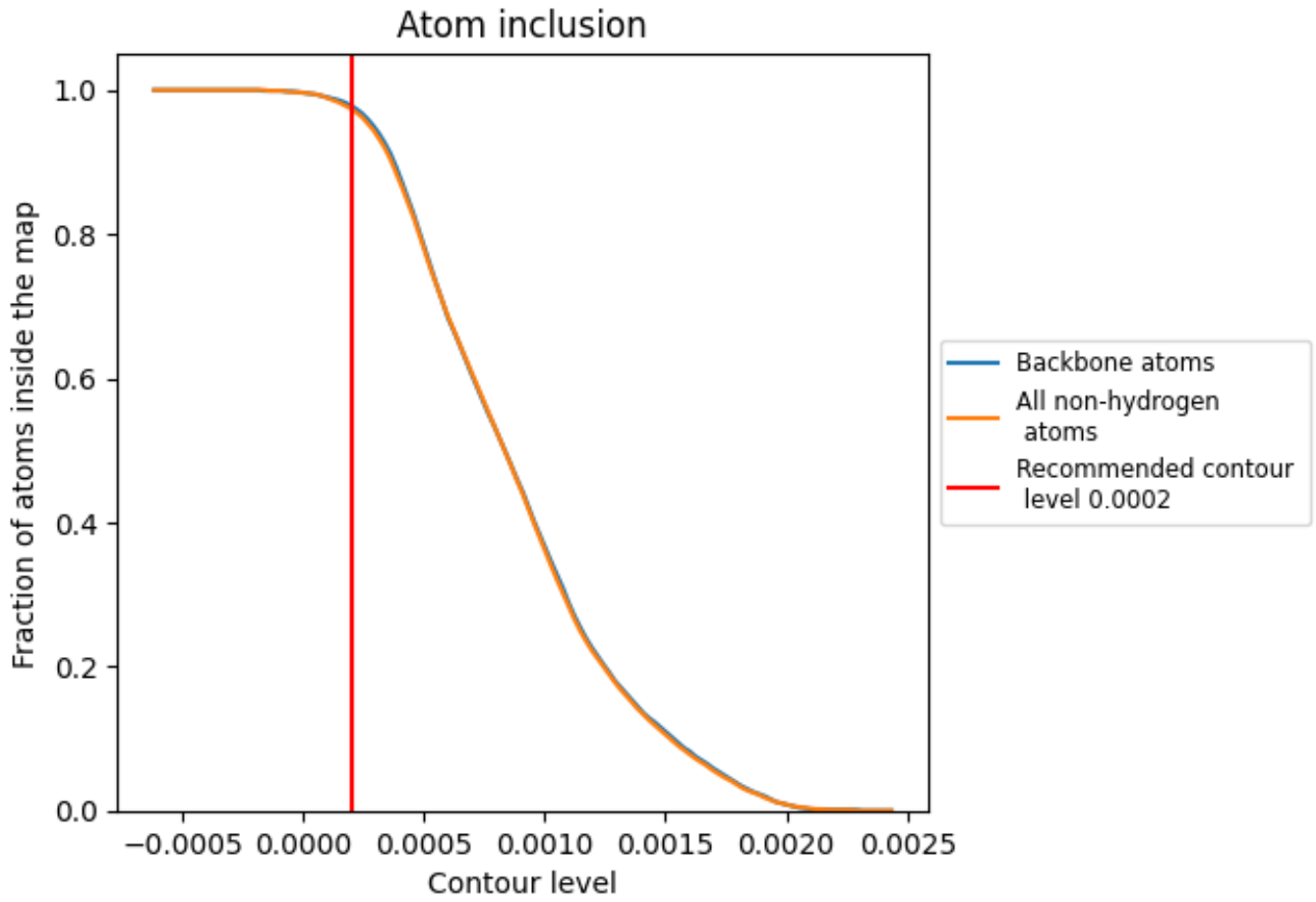
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.0002).

9.4 Atom inclusion (i)



At the recommended contour level, 98% of all backbone atoms, 97% 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 (0.0002) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.9740	0.0410
A	0.9750	0.0550
B	0.9980	0.0420
C	0.9820	0.0410
D	0.9870	0.0380
E	0.9830	0.0310
F	0.9770	0.0230
G	0.9950	0.0420
H	0.9890	0.0270
I	0.9880	0.0620
J	0.9810	0.0610
K	0.9940	0.0430
L	0.9880	0.0480
M	0.9850	0.0600
N	0.9600	0.0400
O	0.9830	0.0490
P	0.9840	0.0300
Q	0.9790	0.0550
R	0.8820	0.0130
S	0.9100	0.0360
T	0.9550	0.0350
U	0.9730	0.0530
V	0.9850	0.0380
W	0.9570	0.0370
X	0.9850	0.0230