



## wwPDB EM Map/Model Validation Report ⓘ

Apr 10, 2016 – 02:03 PM BST

PDB ID : 3IYN  
EMDB ID: : EMD-5172  
Title : 3.6-Angstrom cryoEM structure of human adenovirus type 5  
Authors : Liu, H.; Jin, L.; Koh, S.B.S.; Atanasov, I.; Schein, S.; Wu, L.; Zhou, Z.H.  
Deposited on : 2010-03-09  
Resolution : 3.60 Å(reported)

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

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

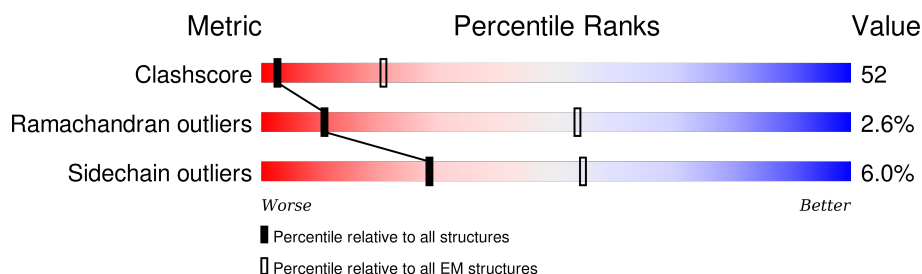
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*ELECTRON MICROSCOPY*

The reported resolution of this entry is 3.60 Å.

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








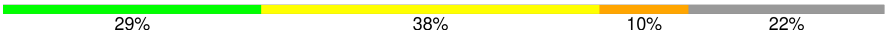

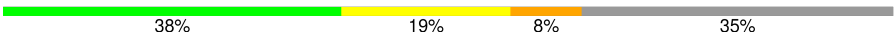
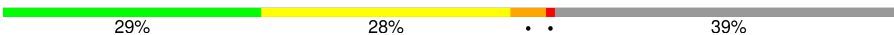
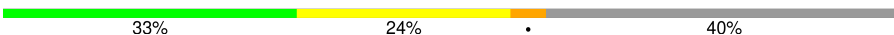
Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	114402	924
Ramachandran outliers	111179	726
Sidechain outliers	111093	686

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

Mol	Chain	Length	Quality of chain
1	A	952	56% 35% 5% .
1	B	952	54% 36% 5% .
1	C	952	52% 38% 6% . .
1	D	952	55% 36% 5% .
1	E	952	54% 37% 5% .
1	F	952	52% 38% 6% .
1	G	952	50% 40% 6% .
1	H	952	52% 38% 6% .
1	I	952	55% 36% 5% .

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Mol	Chain	Length	Quality of chain
1	J	952	
1	K	952	
1	L	952	
2	M	571	
3	N	585	
4	O	227	
4	P	227	
5	Q	140	
5	R	140	
5	S	140	
5	T	140	

## 2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 99595 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 Hexon protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	915	Total	C	N	O	S	0	0
			7327	4659	1241	1392	35		
1	B	915	Total	C	N	O	S	0	0
			7327	4659	1241	1392	35		
1	C	920	Total	C	N	O	S	0	0
			7362	4680	1246	1400	36		
1	D	916	Total	C	N	O	S	0	0
			7335	4664	1242	1393	36		
1	E	917	Total	C	N	O	S	0	0
			7342	4668	1243	1395	36		
1	F	917	Total	C	N	O	S	0	0
			7342	4668	1243	1395	36		
1	G	917	Total	C	N	O	S	0	0
			7342	4668	1243	1395	36		
1	H	919	Total	C	N	O	S	0	0
			7355	4676	1245	1398	36		
1	I	917	Total	C	N	O	S	0	0
			7342	4668	1243	1395	36		
1	J	918	Total	C	N	O	S	0	0
			7349	4672	1244	1397	36		
1	K	919	Total	C	N	O	S	0	0
			7355	4676	1245	1398	36		
1	L	919	Total	C	N	O	S	0	0
			7355	4676	1245	1398	36		

- Molecule 2 is a protein called Penton base protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	M	455	Total	C	N	O	S	0	0
			3642	2308	632	690	12		

- Molecule 3 is a protein called Peripentonal hexon-associated protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	N	284	Total	C	N	O	S	0	0
			2208	1368	406	430	4		

- Molecule 4 is a protein called Hexon-associated protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	O	176	Total	C	N	O	S	0	0
			1361	859	240	257	5		
4	P	176	Total	C	N	O	S	0	0
			1361	859	240	257	5		

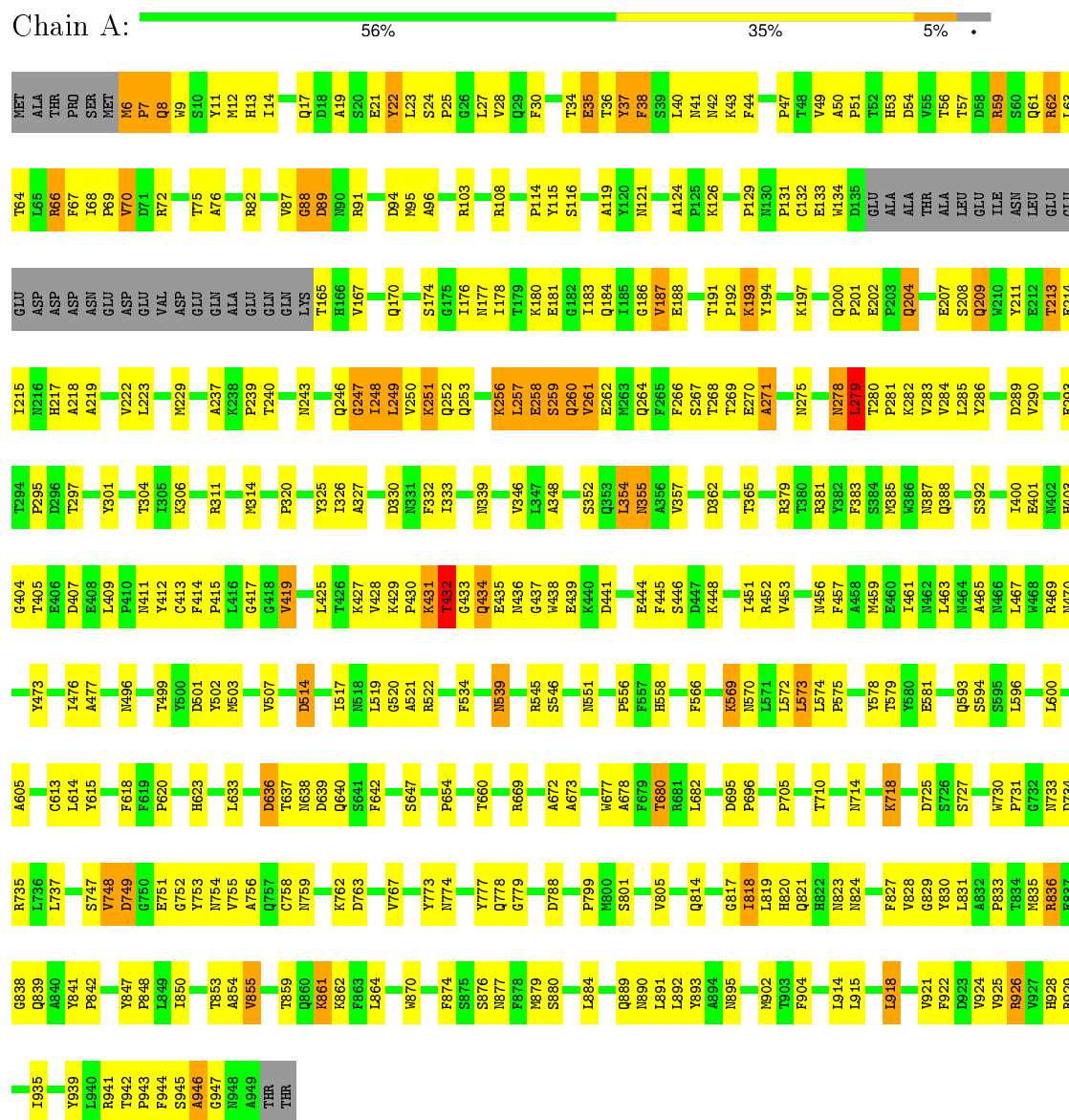
- Molecule 5 is a protein called Hexon-associated protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	Q	128	Total	C	N	O	S	0	0
			927	571	164	190	2		
5	R	91	Total	C	N	O	S	0	0
			683	422	121	138	2		
5	S	86	Total	C	N	O	S	0	0
			647	397	115	133	2		
5	T	84	Total	C	N	O	S	0	0
			633	393	111	127	2		

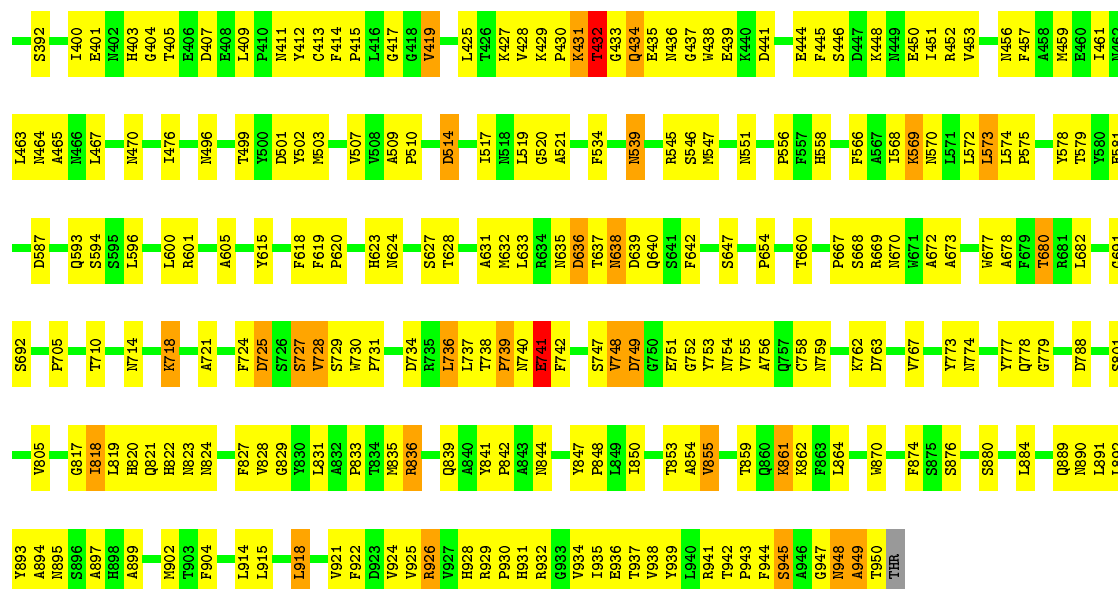
### 3 Residue-property plots

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

- Molecule 1: Hexon protein

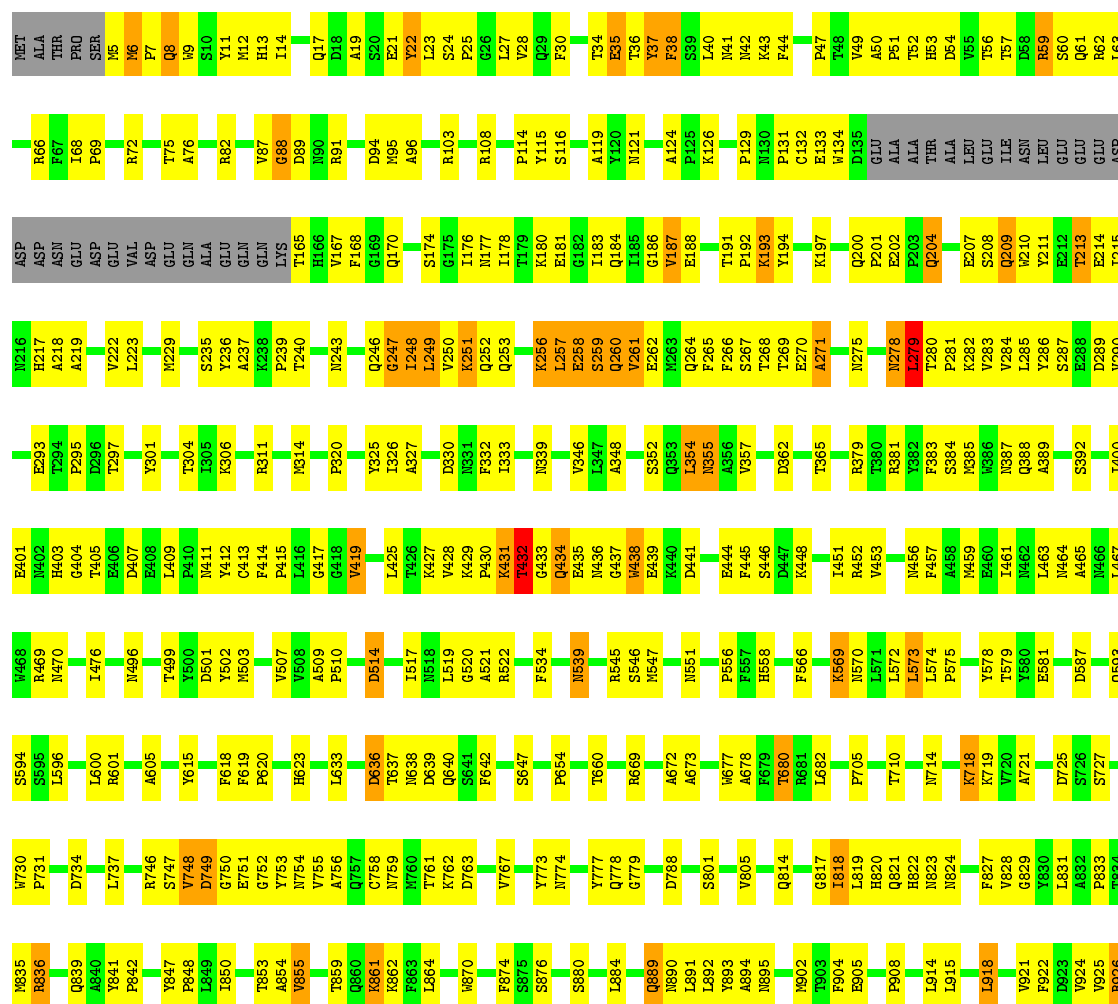




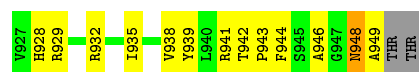


• Molecule 1: Hexon protein

Chain D: 55% 36% 5%

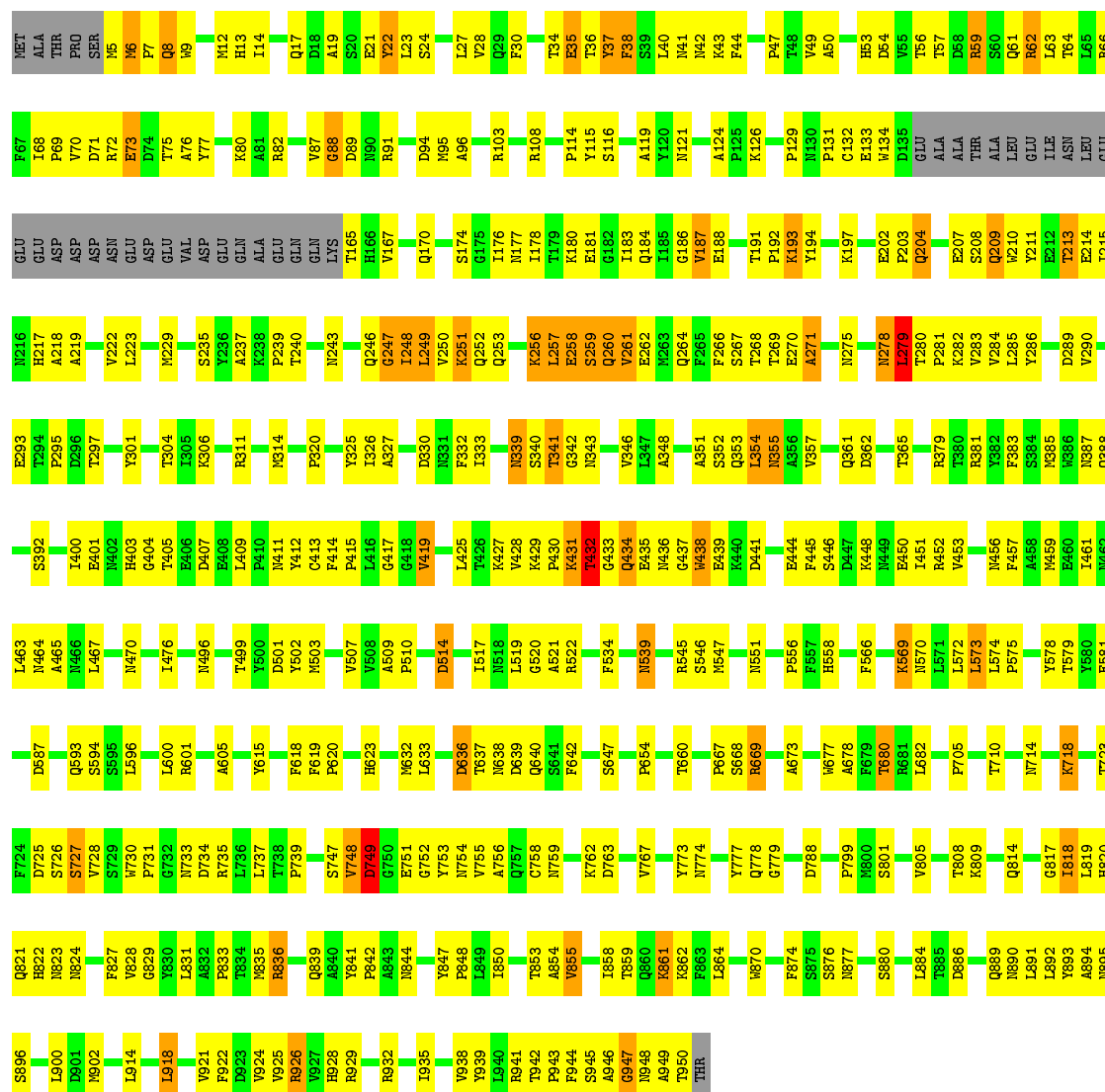


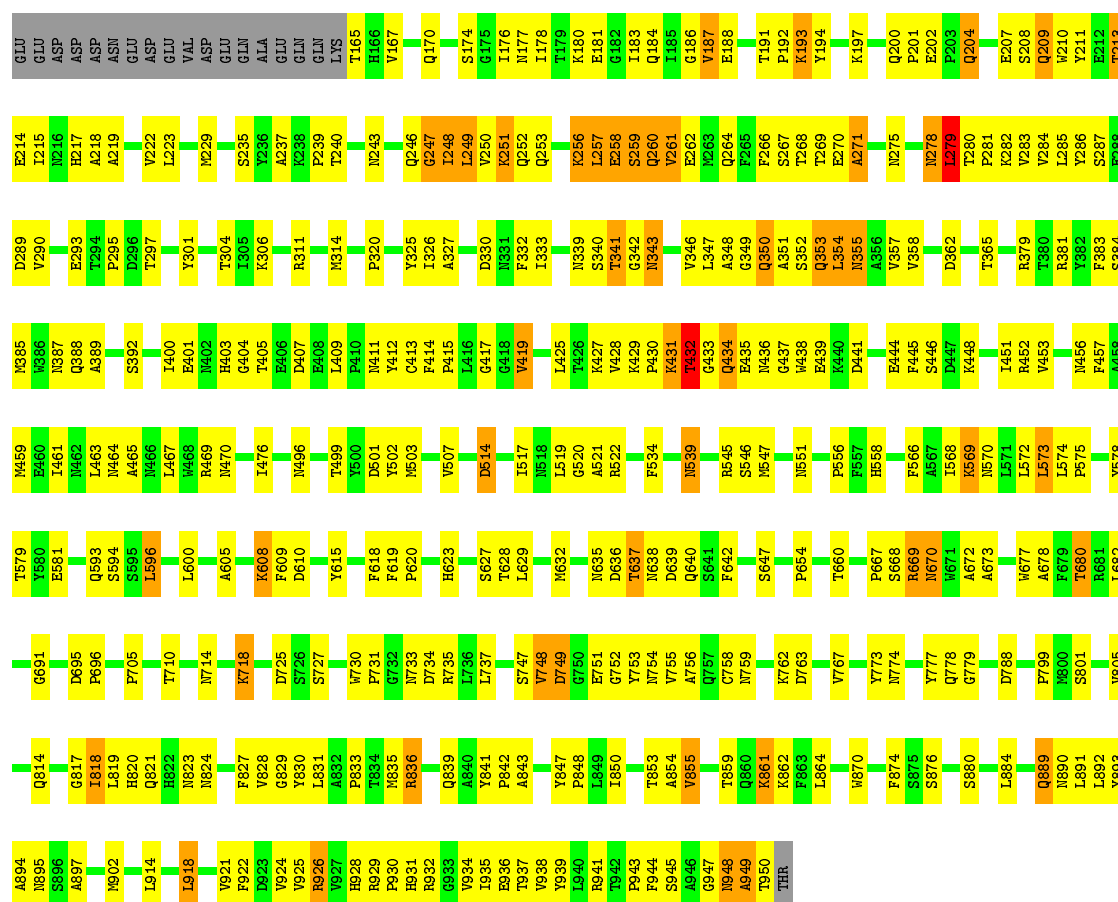




• Molecule 1: Hexon protein

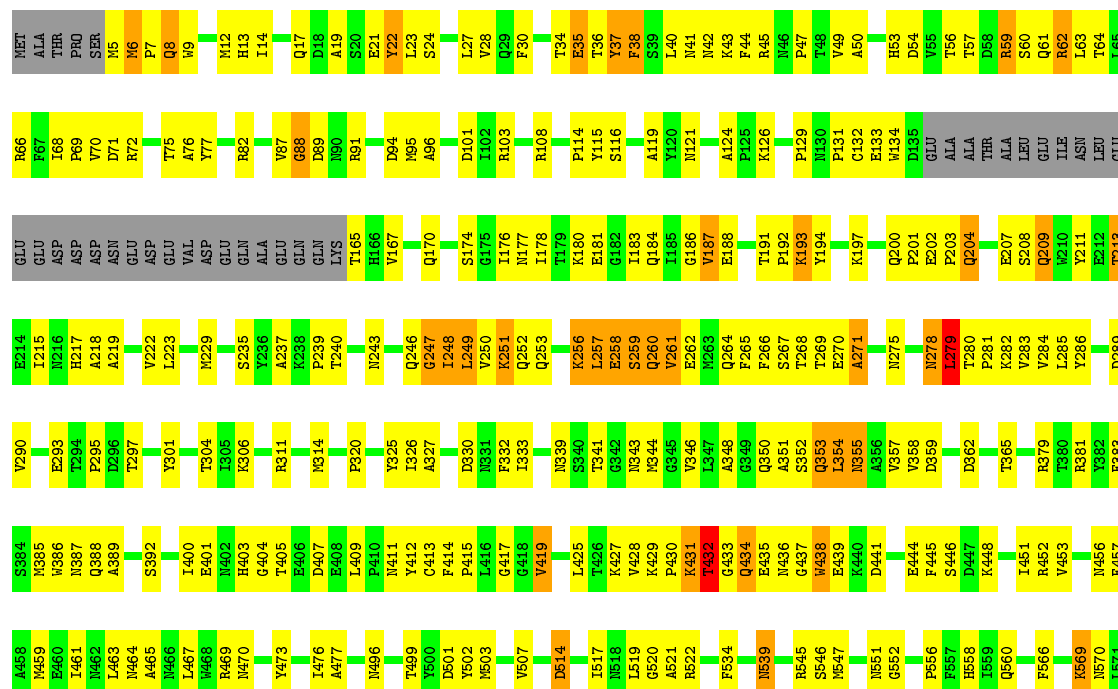
Chain E: 54% 37% 5%

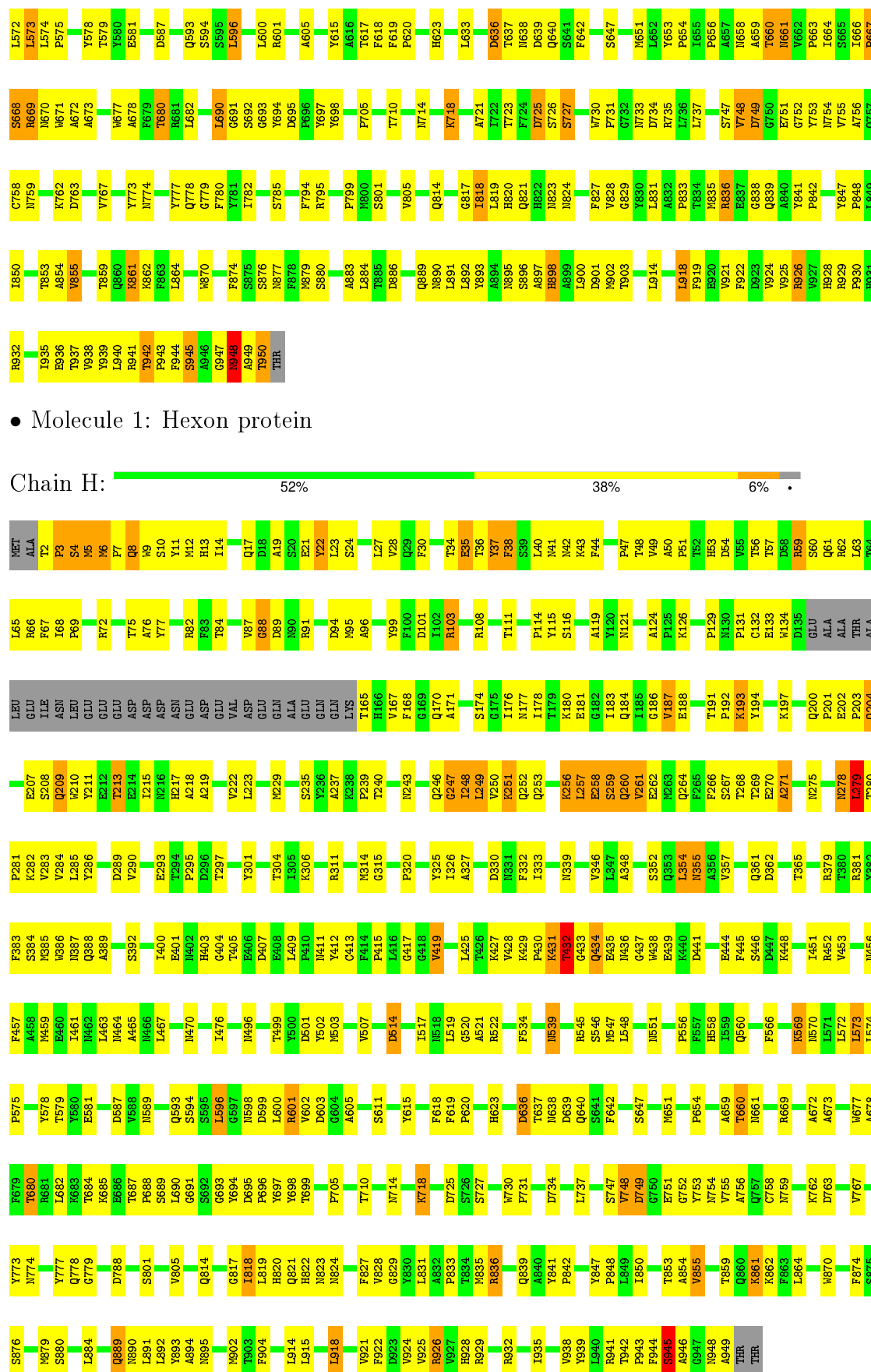




• Molecule 1: Hexon protein

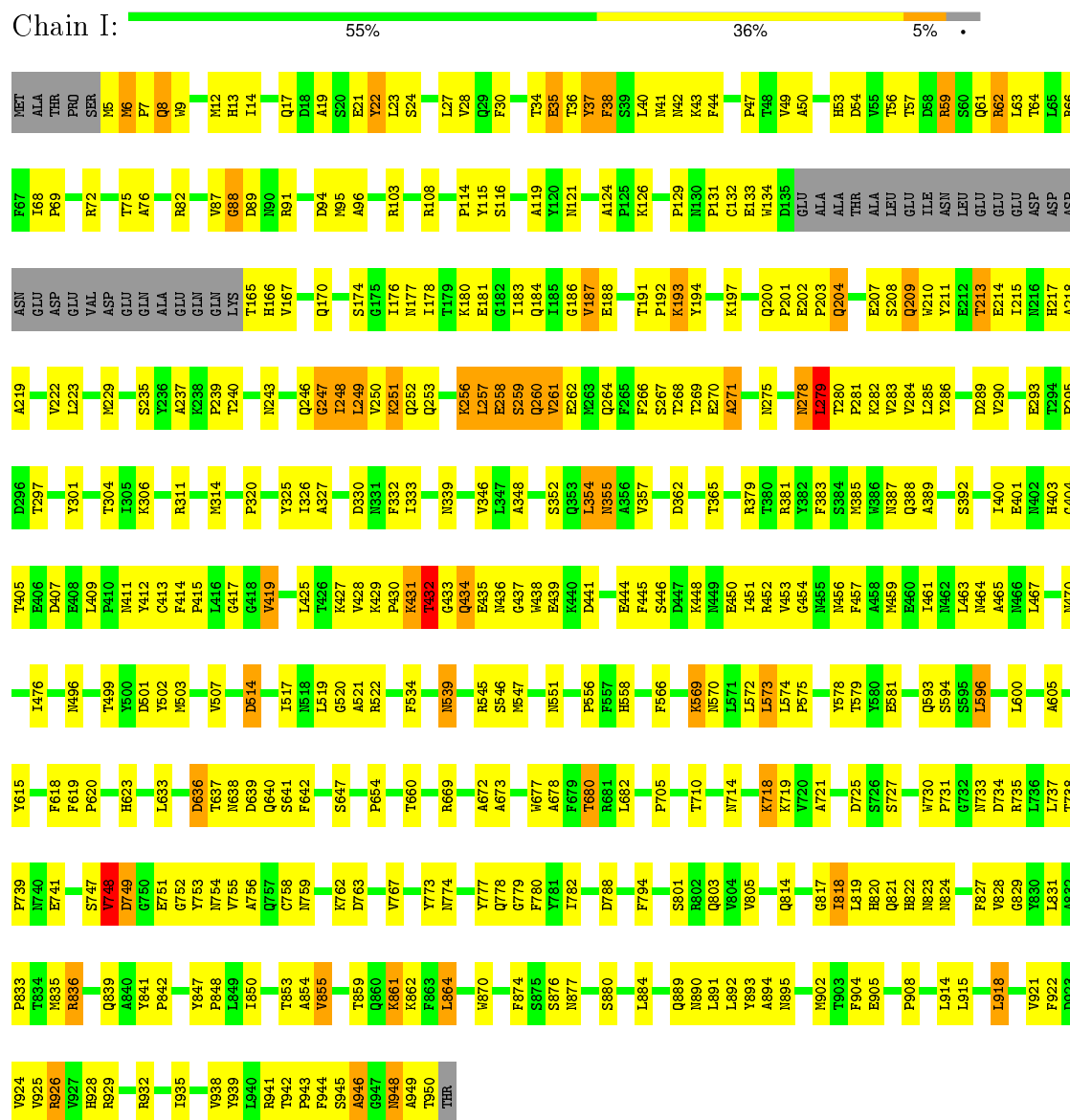
Chain G: 50% 40% 6% •



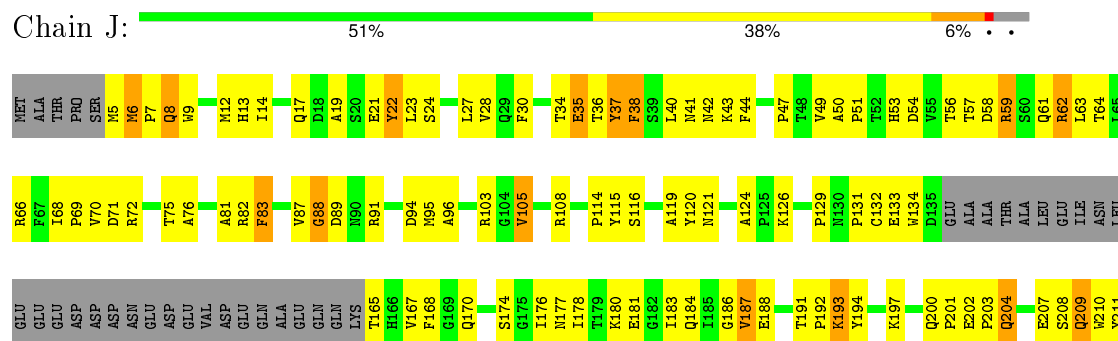


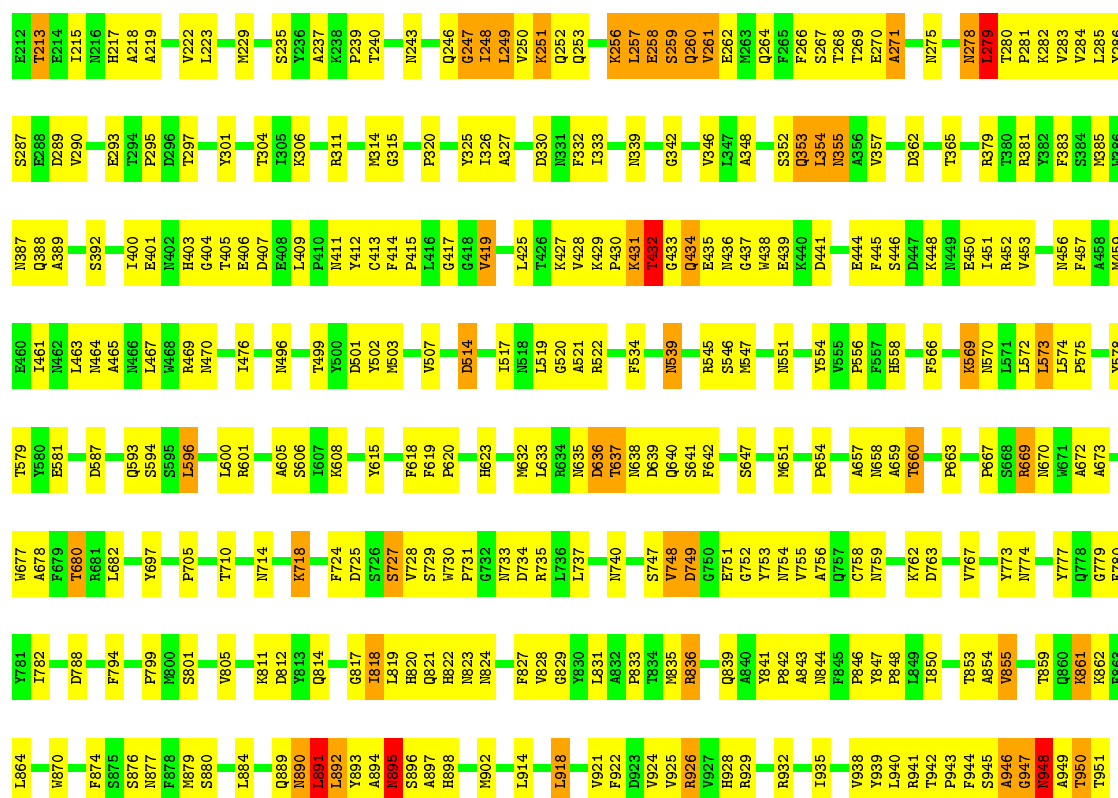
• Molecule 1: Hexon protein

- Molecule 1: Hexon protein



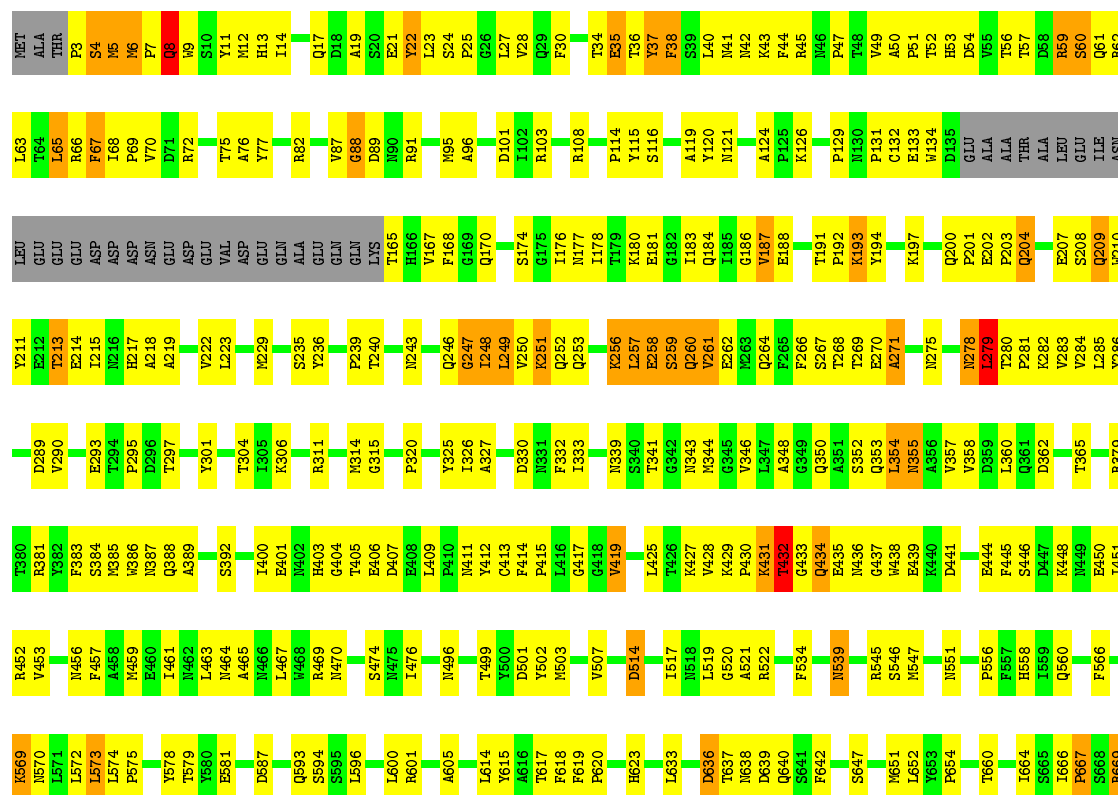
- Molecule 1: Hexon protein



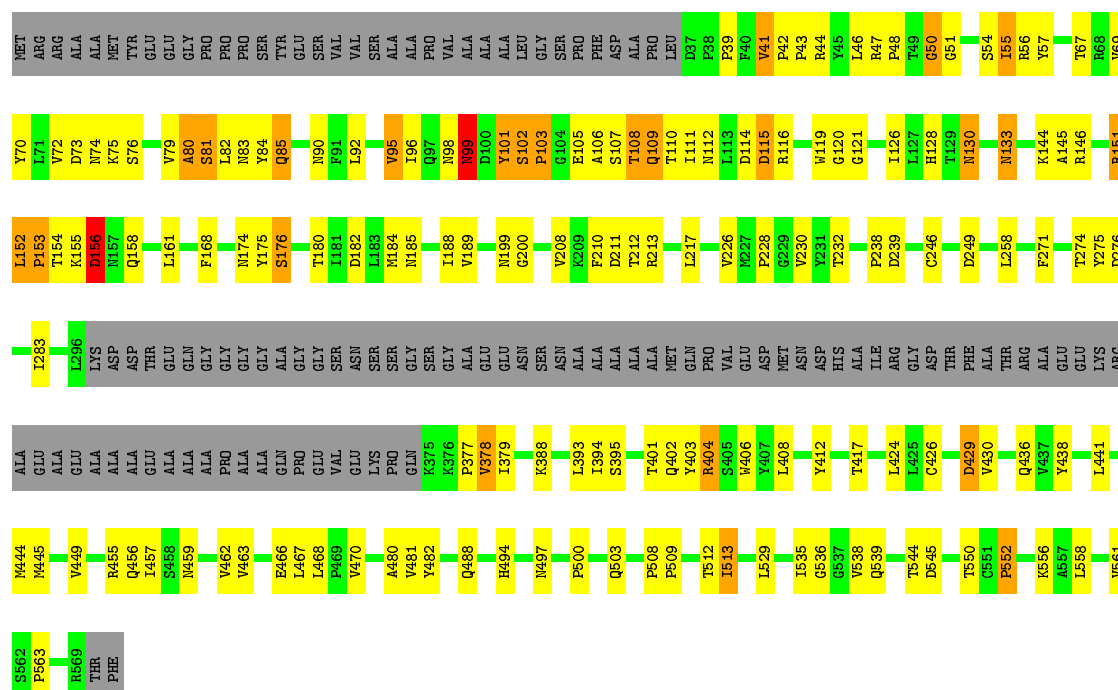


• Molecule 1: Hexon protein

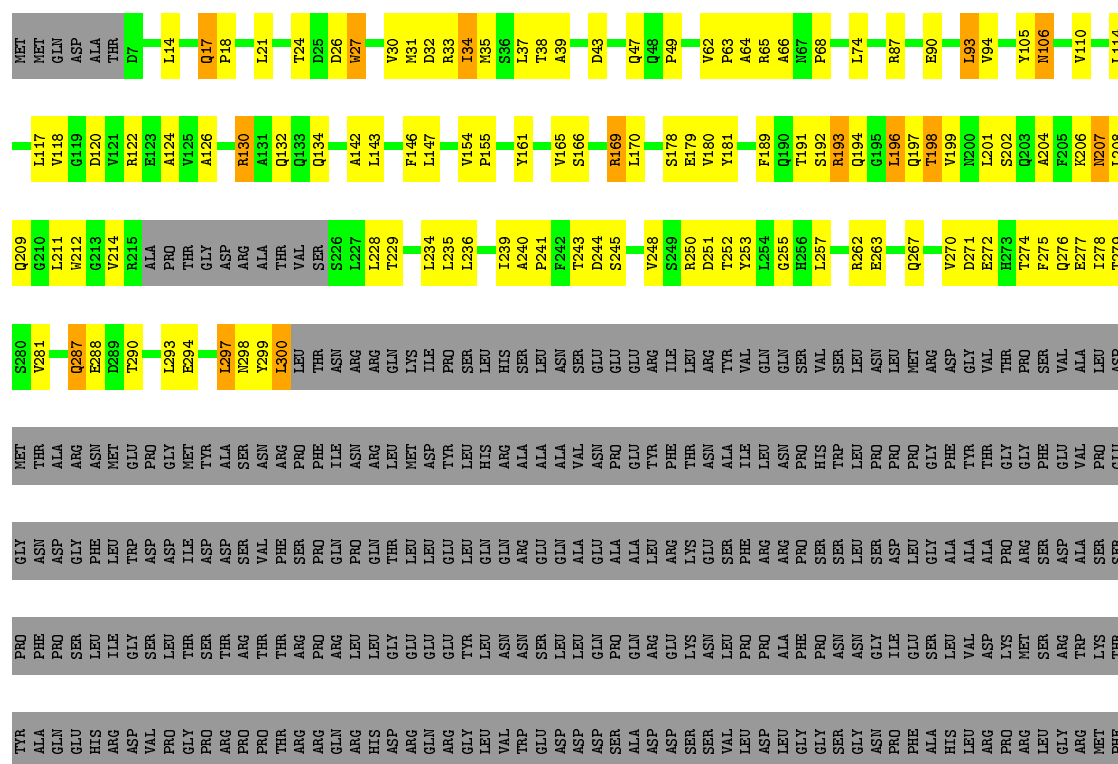
Chain K: 51% 39% 6% . .



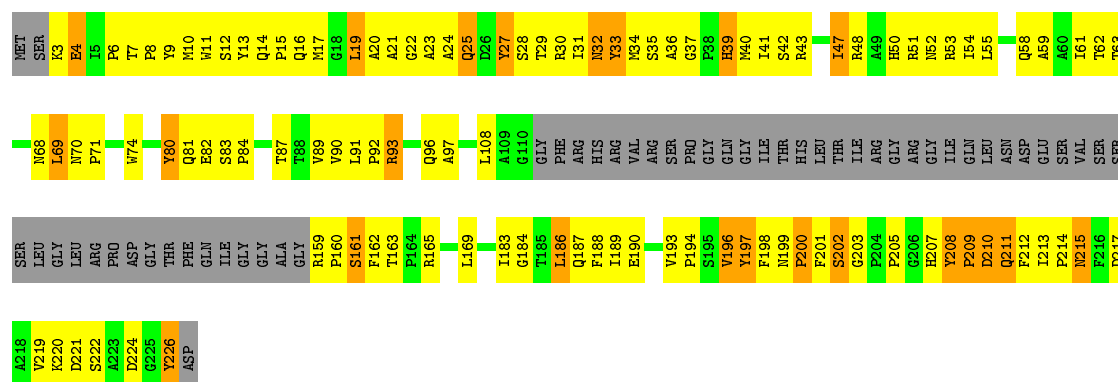




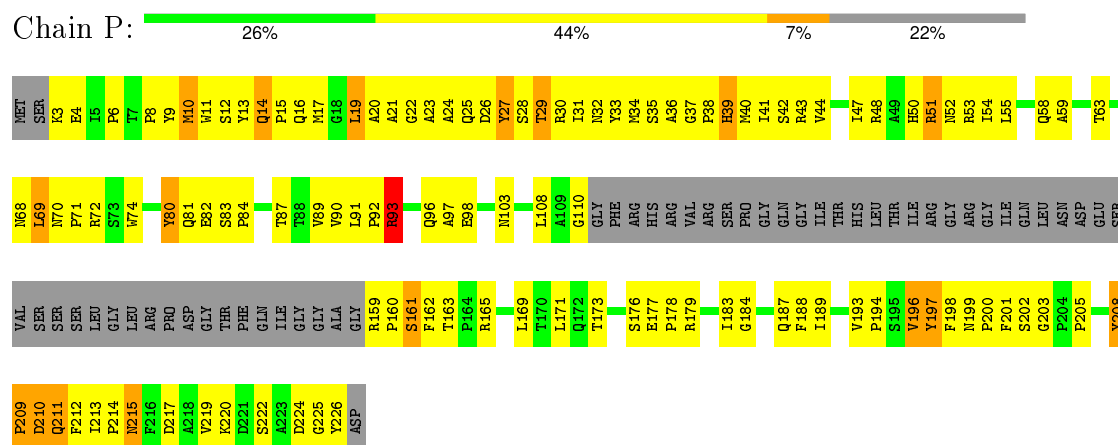
Chain N: 29% 18% 51%



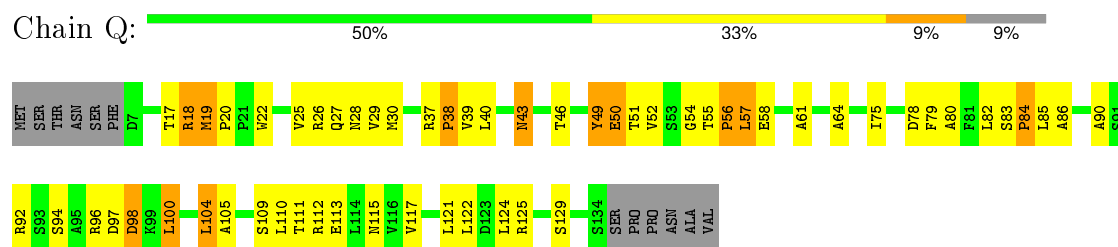
Chain O: 29% 38% 10% 22%



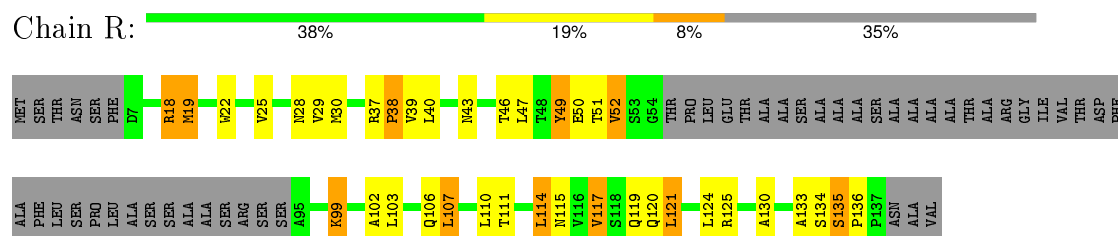
- Molecule 4: Hexon-associated protein



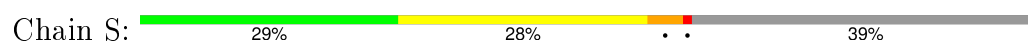
- Molecule 5: Hexon-associated protein



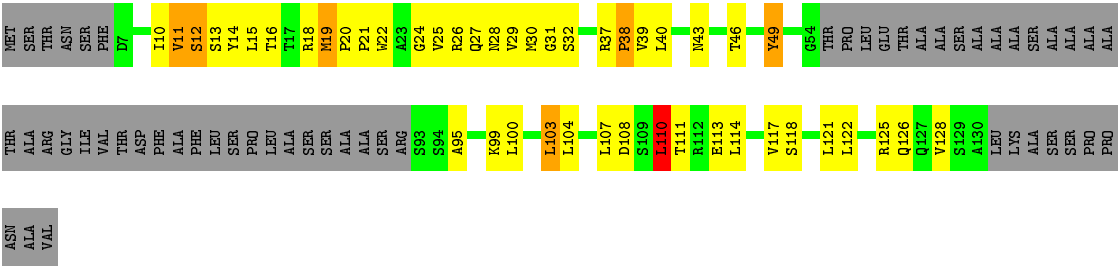
- Molecule 5: Hexon-associated protein



- Molecule 5: Hexon-associated protein

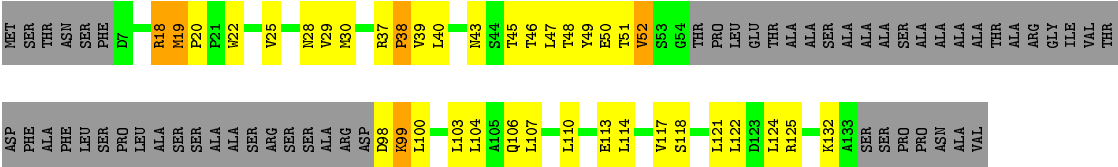






- Molecule 5: Hexon-associated protein

Chain T: 33% 24% 40%



## 4 Experimental information

Property	Value	Source
Reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, 1	Depositor
Number of images	31815	Depositor
Resolution determination method	FSC at 0.5 cut-off	Depositor
CTF correction method	Each particle	Depositor
Microscope	FEI Titan Krios	Depositor
Voltage (kV)	300	Depositor
Electron dose ( $e^-/\text{\AA}^2$ )	20	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	2500	Depositor
Magnification	59000	Depositor
Image detector	Kodak SO163 film	Depositor

## 5 Model quality ⓘ

### 5.1 Standard geometry ⓘ

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# $ Z  > 2$	RMSZ	# $ Z  > 2$
1	A	0.34	0/7525	0.61	2/10234 (0.0%)
1	B	0.34	0/7525	0.61	2/10234 (0.0%)
1	C	0.34	0/7561	0.60	2/10284 (0.0%)
1	D	0.34	0/7533	0.61	1/10244 (0.0%)
1	E	0.34	0/7540	0.61	2/10254 (0.0%)
1	F	0.34	0/7540	0.61	2/10254 (0.0%)
1	G	0.34	0/7540	0.61	2/10254 (0.0%)
1	H	0.34	0/7554	0.61	2/10274 (0.0%)
1	I	0.34	0/7540	0.61	2/10254 (0.0%)
1	J	0.34	0/7547	0.61	2/10264 (0.0%)
1	K	0.34	0/7554	0.60	2/10273 (0.0%)
1	L	0.34	0/7554	0.61	2/10274 (0.0%)
2	M	0.33	0/3733	0.54	0/5088
3	N	0.35	0/2243	0.68	0/3051
4	O	0.20	0/1400	0.36	0/1913
4	P	0.20	0/1400	0.36	0/1913
5	Q	0.30	0/938	0.49	0/1280
5	R	0.33	0/691	0.53	0/941
5	S	0.32	0/653	0.55	1/888 (0.1%)
5	T	0.33	0/639	0.53	0/869
All	All	0.33	0/102210	0.60	24/139040 (0.0%)

There are no bond length outliers.

All (24) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	247	GLY	N-CA-C	5.95	127.96	113.10
1	E	247	GLY	N-CA-C	5.93	127.93	113.10
1	K	247	GLY	N-CA-C	5.92	127.90	113.10
1	D	247	GLY	N-CA-C	5.92	127.89	113.10
1	B	247	GLY	N-CA-C	5.92	127.89	113.10
1	J	247	GLY	N-CA-C	5.91	127.88	113.10
1	C	247	GLY	N-CA-C	5.91	127.86	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	247	GLY	N-CA-C	5.91	127.86	113.10
1	L	247	GLY	N-CA-C	5.91	127.86	113.10
1	A	247	GLY	N-CA-C	5.90	127.84	113.10
1	F	247	GLY	N-CA-C	5.89	127.82	113.10
1	G	247	GLY	N-CA-C	5.88	127.80	113.10
1	L	749	ASP	CB-CG-OD2	5.34	123.11	118.30
1	J	749	ASP	CB-CG-OD2	5.30	123.07	118.30
1	B	749	ASP	CB-CG-OD2	5.25	123.03	118.30
1	I	749	ASP	CB-CG-OD2	5.22	123.00	118.30
1	C	749	ASP	CB-CG-OD2	5.21	122.99	118.30
1	K	749	ASP	CB-CG-OD2	5.20	122.98	118.30
1	A	749	ASP	CB-CG-OD2	5.20	122.98	118.30
1	H	749	ASP	CB-CG-OD2	5.19	122.97	118.30
1	G	749	ASP	CB-CG-OD2	5.19	122.97	118.30
1	F	749	ASP	CB-CG-OD2	5.13	122.91	118.30
5	S	110	LEU	CA-CB-CG	5.06	126.94	115.30
1	E	749	ASP	CB-CG-OD2	5.03	122.82	118.30

There are no chirality outliers.

There are no planarity outliers.

## 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	7327	0	7028	845	0
1	B	7327	0	7028	842	0
1	C	7362	0	7063	1044	0
1	D	7335	0	7037	846	0
1	E	7342	0	7044	1000	0
1	F	7342	0	7044	1083	0
1	G	7342	0	7044	1164	0
1	H	7355	0	7056	1002	0
1	I	7342	0	7044	851	0
1	J	7349	0	7051	1093	0
1	K	7355	0	7057	1139	0
1	L	7355	0	7056	884	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	M	3642	0	3571	227	0
3	N	2208	0	2180	288	0
4	O	1361	0	1311	565	0
4	P	1361	0	1311	572	0
5	Q	927	0	939	218	0
5	R	683	0	695	98	0
5	S	647	0	652	118	0
5	T	633	0	649	139	0
All	All	99595	0	95860	10167	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 52.

All (10167) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:654:PRO:CG	5:Q:84:PRO:HG2	1.33	1.58
1:J:728:VAL:HG11	4:P:226:TYR:CD1	1.37	1.57
1:C:632:MET:HG2	4:O:201:PHE:CD2	1.38	1.55
1:J:660:THR:HB	5:R:130:ALA:CB	1.37	1.54
1:A:88:GLY:HA3	1:E:353:GLN:CG	1.37	1.52
1:I:948:ASN:HB2	1:I:949:ALA:CB	1.36	1.52
1:F:670:ASN:CB	1:G:353:GLN:HB3	1.40	1.51
1:F:608:LYS:CD	5:T:98:ASP:HB2	1.37	1.51
1:F:351:ALA:HB1	1:G:667:PRO:CG	1.41	1.49
1:L:3:PRO:HB2	4:O:54:ILE:CG2	1.41	1.48
1:E:948:ASN:HB3	1:E:949:ALA:CB	1.37	1.48
1:F:931:HIS:CD2	4:P:24:ALA:HB3	1.50	1.46
1:L:719:LYS:HD2	5:Q:22:TRP:CD2	1.50	1.45
1:E:949:ALA:CB	1:E:950:THR:HB	1.47	1.44
1:I:949:ALA:CB	1:I:950:THR:HB	1.45	1.43
1:E:257:LEU:HB3	1:E:258:GLU:CA	1.49	1.43
1:E:281:PRO:HG3	1:F:438:TRP:CH2	1.54	1.42
1:A:6:MET:HB3	1:A:7:PRO:CD	1.44	1.42
1:K:938:VAL:HG23	4:O:40:MET:CE	1.49	1.41
1:L:751:GLU:CD	5:Q:52:VAL:HG12	1.38	1.40
1:J:432:THR:HG21	1:J:439:GLU:CG	1.50	1.40
1:B:257:LEU:HB3	1:B:258:GLU:CA	1.49	1.40
1:C:3:PRO:HB3	2:M:115:ASP:CG	1.38	1.40
1:A:257:LEU:HB3	1:A:258:GLU:CA	1.49	1.39
1:G:432:THR:HG21	1:G:439:GLU:CG	1.53	1.39

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:893:TYR:CZ	1:E:950:THR:HA	1.58	1.39
1:G:938:VAL:HG23	4:P:40:MET:CE	1.51	1.39
1:H:257:LEU:HB3	1:H:258:GLU:CA	1.49	1.39
1:K:432:THR:HG21	1:K:439:GLU:CG	1.50	1.39
1:B:432:THR:HG21	1:B:439:GLU:CG	1.51	1.39
1:F:608:LYS:CG	5:T:98:ASP:HB2	1.54	1.38
1:H:432:THR:HG21	1:H:439:GLU:CG	1.49	1.38
1:F:432:THR:HG21	1:F:439:GLU:CG	1.52	1.38
1:F:257:LEU:HB3	1:F:258:GLU:CA	1.50	1.38
1:E:432:THR:HG21	1:E:439:GLU:CG	1.54	1.38
1:A:432:THR:HG21	1:A:439:GLU:CD	1.43	1.38
1:I:432:THR:HG21	1:I:439:GLU:CG	1.51	1.38
1:K:939:TYR:HB2	4:O:32:ASN:ND2	1.33	1.37
1:I:432:THR:HG21	1:I:439:GLU:CD	1.44	1.37
1:H:281:PRO:HG3	1:I:438:TRP:CH2	1.59	1.37
1:A:25:PRO:HG2	4:O:202:SER:CB	1.55	1.36
1:G:257:LEU:HB3	1:G:258:GLU:CA	1.49	1.36
1:A:432:THR:HG21	1:A:439:GLU:CG	1.55	1.36
1:C:257:LEU:HB3	1:C:258:GLU:CA	1.50	1.36
1:C:432:THR:HG21	1:C:439:GLU:CD	1.43	1.36
1:L:257:LEU:HB3	1:L:258:GLU:CA	1.49	1.36
1:C:948:ASN:HA	1:C:949:ALA:CB	1.47	1.36
1:L:432:THR:HG21	1:L:439:GLU:CG	1.52	1.36
1:L:432:THR:HG21	1:L:439:GLU:CD	1.43	1.36
1:G:727:SER:HB3	4:P:15:PRO:CB	1.55	1.36
1:G:432:THR:HG21	1:G:439:GLU:CD	1.43	1.36
1:I:257:LEU:HB3	1:I:258:GLU:CA	1.49	1.36
1:D:257:LEU:HB3	1:D:258:GLU:CA	1.50	1.36
1:G:948:ASN:ND2	4:P:32:ASN:HA	1.39	1.35
1:F:931:HIS:NE2	4:P:24:ALA:HB3	1.38	1.35
1:E:894:ALA:HB1	1:F:5:MET:SD	1.65	1.35
1:J:432:THR:HG21	1:J:439:GLU:CD	1.43	1.35
1:B:432:THR:HG21	1:B:439:GLU:CD	1.43	1.35
3:N:196:LEU:HA	4:O:197:TYR:CE2	1.62	1.35
1:E:432:THR:HG21	1:E:439:GLU:CD	1.44	1.35
1:F:432:THR:HG21	1:F:439:GLU:CD	1.43	1.35
1:H:432:THR:HG21	1:H:439:GLU:CD	1.43	1.35
1:K:432:THR:HG21	1:K:439:GLU:CD	1.43	1.34
1:C:341:THR:HB	1:K:693:GLY:CA	1.55	1.34
1:J:257:LEU:HB3	1:J:258:GLU:CA	1.49	1.34
1:E:949:ALA:HB3	1:E:950:THR:CB	1.58	1.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:432:THR:HG21	1:D:439:GLU:CD	1.43	1.34
1:J:950:THR:CB	1:J:951:THR:HB	1.57	1.34
1:H:62:ARG:CD	1:J:354:LEU:HD23	1.56	1.34
1:C:432:THR:HG21	1:C:439:GLU:CG	1.56	1.34
2:M:39:PRO:HG3	3:N:27:TRP:CB	1.57	1.33
1:C:632:MET:HG2	4:O:201:PHE:CE2	1.64	1.33
1:D:432:THR:HG21	1:D:439:GLU:CG	1.55	1.33
1:F:341:THR:HB	1:G:693:GLY:N	1.39	1.33
1:J:844:ASN:HB3	1:K:246:GLN:NE2	1.40	1.33
1:K:257:LEU:HB3	1:K:258:GLU:CA	1.50	1.33
1:I:949:ALA:HB3	1:I:950:THR:CB	1.58	1.32
1:J:950:THR:CA	1:J:951:THR:HB	1.58	1.32
1:C:3:PRO:CG	2:M:115:ASP:HB2	1.57	1.32
1:D:430:PRO:HG3	1:F:180:LYS:CE	1.59	1.32
1:H:8:GLN:HG3	4:P:31:ILE:CD1	1.60	1.32
1:L:11:TYR:CE1	4:O:43:ARG:HD3	1.65	1.31
1:D:27:LEU:HD13	1:F:632:MET:CE	1.58	1.31
1:L:11:TYR:HB2	4:O:47:ILE:CD1	1.61	1.30
1:A:68:ILE:CB	1:E:73:GLU:HG2	1.61	1.30
1:A:59:ARG:CD	1:E:354:LEU:HD21	1.59	1.30
1:F:948:ASN:CA	1:F:949:ALA:HB3	1.62	1.29
1:A:180:LYS:CE	1:B:430:PRO:HG3	1.61	1.29
1:F:65:LEU:CD1	1:J:727:SER:HB2	1.61	1.29
1:G:638:ASN:HD21	1:H:24:SER:CB	1.42	1.29
1:E:948:ASN:HB3	1:E:949:ALA:CA	1.61	1.28
1:F:608:LYS:HD3	5:T:98:ASP:CB	1.64	1.28
1:F:351:ALA:CB	1:G:667:PRO:HG3	1.64	1.28
1:E:844:ASN:HB3	1:F:246:GLN:NE2	1.46	1.28
1:K:940:LEU:HD13	4:O:31:ILE:CG1	1.64	1.27
1:D:438:TRP:CH2	1:F:281:PRO:HG3	1.67	1.27
1:E:633:LEU:HD23	1:E:638:ASN:ND2	1.46	1.27
1:A:25:PRO:CG	4:O:202:SER:HA	1.62	1.27
1:I:948:ASN:HB2	1:I:949:ALA:CA	1.54	1.27
1:B:946:ALA:N	2:M:109:GLN:HA	1.46	1.27
1:A:62:ARG:NH2	1:C:737:LEU:HA	1.47	1.26
1:H:180:LYS:CE	1:I:430:PRO:HG3	1.64	1.26
1:C:737:LEU:HD22	1:C:753:TYR:CE2	1.68	1.26
1:D:638:ASN:HD21	1:E:24:SER:CB	1.47	1.26
1:E:281:PRO:CG	1:F:438:TRP:CH2	2.20	1.25
1:A:260:GLN:O	1:A:261:VAL:HG23	1.34	1.25
1:H:260:GLN:O	1:H:261:VAL:HG23	1.34	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:948:ASN:CA	1:C:949:ALA:HB3	1.65	1.25
1:J:950:THR:HB	1:J:951:THR:CB	1.65	1.25
1:B:940:LEU:HA	1:B:947:GLY:CA	1.65	1.25
1:C:737:LEU:HD22	1:C:753:TYR:CZ	1.72	1.25
1:I:719:LYS:HD2	5:T:22:TRP:CD2	1.69	1.25
1:D:719:LYS:HD2	5:R:22:TRP:CD2	1.72	1.25
1:J:59:ARG:CA	4:P:108:LEU:HD11	1.66	1.25
1:F:59:ARG:HA	1:K:60:SER:N	1.50	1.24
1:J:260:GLN:O	1:J:261:VAL:HG23	1.34	1.24
1:E:632:MET:CB	1:F:27:LEU:HD21	1.66	1.24
1:J:728:VAL:HG11	4:P:226:TYR:CE1	1.71	1.24
1:A:25:PRO:HG2	4:O:202:SER:CA	1.68	1.24
1:F:260:GLN:O	1:F:261:VAL:HG23	1.34	1.24
5:Q:111:THR:HG21	5:T:110:LEU:CD1	1.68	1.24
1:G:891:LEU:CD2	1:H:2:THR:HG22	1.64	1.24
1:E:638:ASN:ND2	1:F:27:LEU:HD13	1.51	1.23
1:J:229:MET:CE	1:J:314:MET:HG2	1.69	1.23
1:G:180:LYS:CE	1:H:430:PRO:HG3	1.66	1.23
1:K:260:GLN:O	1:K:261:VAL:HG23	1.34	1.23
1:E:638:ASN:CG	1:F:27:LEU:HD13	1.58	1.23
1:J:728:VAL:HG21	4:P:226:TYR:CD2	1.74	1.23
1:C:229:MET:CE	1:C:314:MET:HG2	1.69	1.23
1:I:229:MET:CE	1:I:314:MET:HG2	1.69	1.23
3:N:194:GLN:H	4:O:207:HIS:CB	1.50	1.23
1:D:229:MET:CE	1:D:314:MET:HG2	1.69	1.23
1:D:5:MET:SD	1:F:894:ALA:HB1	1.77	1.23
1:I:433:GLY:C	1:I:437:GLY:HA3	1.59	1.23
1:A:229:MET:CE	1:A:314:MET:HG2	1.69	1.23
1:G:260:GLN:O	1:G:261:VAL:HG23	1.34	1.22
1:L:229:MET:CE	1:L:314:MET:HG2	1.68	1.22
1:E:949:ALA:CA	1:E:950:THR:HB	1.70	1.22
1:F:229:MET:CE	1:F:314:MET:HG2	1.69	1.22
1:H:894:ALA:HB1	1:I:5:MET:SD	1.78	1.22
1:J:924:VAL:HG21	1:K:14:ILE:CD1	1.70	1.22
1:K:229:MET:CE	1:K:314:MET:HG2	1.69	1.22
1:J:430:PRO:HG3	1:L:180:LYS:CE	1.69	1.22
1:K:433:GLY:C	1:K:437:GLY:HA3	1.60	1.22
1:F:632:MET:HB3	4:P:201:PHE:CE2	1.73	1.22
1:D:260:GLN:O	1:D:261:VAL:HG23	1.34	1.22
1:E:229:MET:CE	1:E:314:MET:HG2	1.69	1.22
1:H:229:MET:CE	1:H:314:MET:HG2	1.69	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:24:SER:CB	1:I:638:ASN:HD21	1.50	1.22
1:J:728:VAL:CG1	4:P:226:TYR:CD1	2.20	1.22
1:G:638:ASN:ND2	1:H:24:SER:HB3	1.53	1.22
1:C:260:GLN:O	1:C:261:VAL:HG23	1.34	1.22
3:N:196:LEU:CA	4:O:197:TYR:HE2	1.52	1.21
1:J:433:GLY:C	1:J:437:GLY:HA3	1.61	1.21
1:B:260:GLN:O	1:B:261:VAL:HG23	1.34	1.21
1:B:229:MET:CE	1:B:314:MET:HG2	1.69	1.21
1:J:638:ASN:HD21	1:K:24:SER:CB	1.54	1.21
1:K:180:LYS:CE	1:L:430:PRO:HG3	1.69	1.21
1:K:896:SER:HB2	4:O:11:TRP:O	1.36	1.21
1:D:894:ALA:HB1	1:E:5:MET:SD	1.78	1.21
1:C:670:ASN:CB	1:K:353:GLN:HG2	1.69	1.21
1:F:948:ASN:HA	1:F:949:ALA:CB	1.66	1.21
1:G:939:TYR:HB2	4:P:32:ASN:ND2	1.56	1.21
1:E:260:GLN:O	1:E:261:VAL:HG23	1.34	1.21
1:E:19:ALA:HB1	1:E:23:LEU:CD1	1.71	1.21
1:J:19:ALA:HB1	1:J:23:LEU:CD1	1.71	1.21
1:B:941:ARG:NH1	2:M:108:THR:HG21	1.54	1.20
1:C:19:ALA:HB1	1:C:23:LEU:CD1	1.71	1.20
1:L:260:GLN:O	1:L:261:VAL:HG23	1.34	1.20
1:I:260:GLN:O	1:I:261:VAL:HG23	1.34	1.20
1:G:229:MET:CE	1:G:314:MET:HG2	1.69	1.20
1:D:433:GLY:C	1:D:437:GLY:HA3	1.61	1.20
1:J:606:SER:HB3	5:Q:58:GLU:CB	1.69	1.20
1:K:638:ASN:HD21	1:L:24:SER:CB	1.54	1.20
1:A:19:ALA:HB1	1:A:23:LEU:CD1	1.71	1.20
1:K:3:PRO:HG3	1:K:11:TYR:CE2	1.76	1.20
1:L:19:ALA:HB1	1:L:23:LEU:CD1	1.71	1.20
1:A:246:GLN:HE21	1:C:844:ASN:CB	1.53	1.20
1:A:88:GLY:CA	1:E:353:GLN:HG2	1.71	1.19
1:H:19:ALA:HB1	1:H:23:LEU:CD1	1.71	1.19
1:E:949:ALA:H	1:E:950:THR:C	1.46	1.19
1:J:5:MET:SD	1:L:894:ALA:HB1	1.80	1.19
1:K:891:LEU:O	1:K:895:ASN:HB2	1.38	1.19
1:B:433:GLY:C	1:B:437:GLY:HA3	1.61	1.19
1:H:433:GLY:CA	1:H:437:GLY:HA3	1.73	1.19
1:E:433:GLY:C	1:E:437:GLY:HA3	1.61	1.19
1:L:433:GLY:C	1:L:437:GLY:HA3	1.63	1.19
1:F:19:ALA:HB1	1:F:23:LEU:CD1	1.71	1.19
1:B:946:ALA:HA	2:M:108:THR:O	1.41	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:433:GLY:C	1:F:437:GLY:HA3	1.61	1.19
1:J:673:ALA:HB2	1:K:9:TRP:CZ2	1.76	1.19
1:D:19:ALA:HB1	1:D:23:LEU:CD1	1.71	1.19
1:A:62:ARG:HH21	1:C:737:LEU:CA	1.55	1.19
1:D:180:LYS:CE	1:E:430:PRO:HG3	1.72	1.19
1:I:949:ALA:CA	1:I:950:THR:HB	1.69	1.19
1:G:281:PRO:HG3	1:H:438:TRP:CH2	1.76	1.19
1:I:748:VAL:HB	5:T:51:THR:O	1.42	1.19
1:A:11:TYR:HB2	4:O:33:TYR:OH	1.42	1.18
1:A:88:GLY:N	1:E:353:GLN:HE21	1.40	1.18
1:H:433:GLY:C	1:H:437:GLY:HA3	1.61	1.18
1:J:947:GLY:HA2	1:J:948:ASN:O	1.39	1.18
1:B:946:ALA:HB2	2:M:108:THR:OG1	1.42	1.18
1:A:924:VAL:HG21	1:B:14:ILE:CD1	1.74	1.18
1:L:892:LEU:HD13	4:P:103:ASN:O	1.43	1.18
1:I:949:ALA:H	1:I:950:THR:C	1.46	1.18
1:G:924:VAL:HG21	1:H:14:ILE:CD1	1.72	1.18
4:P:51:ARG:O	4:P:54:ILE:HG12	1.41	1.18
1:I:433:GLY:CA	1:I:437:GLY:HA3	1.74	1.18
1:J:895:ASN:ND2	1:J:896:SER:H	1.38	1.18
1:B:19:ALA:HB1	1:B:23:LEU:CD1	1.71	1.18
1:I:19:ALA:HB1	1:I:23:LEU:CD1	1.71	1.18
1:D:6:MET:HB2	1:D:7:PRO:HD3	1.25	1.18
1:K:19:ALA:HB1	1:K:23:LEU:CD1	1.71	1.18
1:J:895:ASN:HD22	1:J:896:SER:N	1.42	1.18
1:F:608:LYS:CD	5:T:98:ASP:CB	2.21	1.18
1:A:68:ILE:CD1	1:E:73:GLU:HB3	1.72	1.18
1:C:670:ASN:HB3	1:K:353:GLN:CG	1.73	1.18
1:F:931:HIS:CD2	4:P:24:ALA:CB	2.25	1.17
1:C:251:LYS:CB	1:C:252:GLN:HA	1.73	1.17
1:K:3:PRO:CG	1:K:11:TYR:CE2	2.27	1.17
1:B:6:MET:HB2	1:B:7:PRO:HD3	1.26	1.17
1:H:688:PRO:HA	5:S:26:ARG:NH2	1.59	1.17
1:I:948:ASN:CB	1:I:949:ALA:HB2	1.74	1.17
1:H:5:MET:SD	1:H:8:GLN:HB2	1.82	1.17
1:G:433:GLY:C	1:G:437:GLY:HA3	1.63	1.17
1:L:433:GLY:CA	1:L:437:GLY:HA3	1.73	1.17
1:G:19:ALA:HB1	1:G:23:LEU:CD1	1.71	1.17
1:B:777:TYR:HE1	1:C:63:LEU:HD22	1.02	1.17
1:K:433:GLY:CA	1:K:437:GLY:HA3	1.74	1.17
1:E:432:THR:HG21	1:E:439:GLU:HG3	1.25	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:19:ALA:HB1	1:D:23:LEU:HD12	1.25	1.17
1:C:740:ASN:ND2	1:E:361:GLN:HB3	1.59	1.17
1:G:14:ILE:CD1	1:I:924:VAL:HG21	1.73	1.17
1:J:660:THR:HB	5:R:130:ALA:HB1	1.22	1.17
1:H:257:LEU:CB	1:H:258:GLU:HA	1.75	1.17
1:C:433:GLY:C	1:C:437:GLY:HA3	1.62	1.17
1:J:894:ALA:HB1	4:P:14:GLN:HE21	1.03	1.17
1:C:351:ALA:CB	1:K:667:PRO:HD3	1.74	1.17
1:G:896:SER:HB2	4:P:11:TRP:O	1.43	1.17
1:E:257:LEU:CB	1:E:258:GLU:HA	1.75	1.17
1:G:433:GLY:CA	1:G:437:GLY:HA3	1.74	1.17
1:H:256:LYS:HA	1:H:257:LEU:O	1.45	1.17
1:H:281:PRO:CG	1:I:438:TRP:CH2	2.25	1.17
1:C:739:PRO:CD	1:E:341:THR:HB	1.74	1.17
1:G:24:SER:HB3	1:I:638:ASN:ND2	1.60	1.17
1:J:654:PRO:CD	5:Q:84:PRO:HG2	1.73	1.16
1:K:670:ASN:CA	4:O:10:MET:HE3	1.74	1.16
1:G:19:ALA:HB1	1:G:23:LEU:HD12	1.26	1.16
1:H:463:LEU:HD11	1:I:463:LEU:HD23	1.27	1.16
1:K:463:LEU:HD11	1:L:463:LEU:HD23	1.23	1.16
1:J:654:PRO:HG3	5:Q:84:PRO:HG2	1.19	1.16
1:F:351:ALA:HB1	1:G:667:PRO:CD	1.73	1.16
1:G:256:LYS:HA	1:G:257:LEU:O	1.45	1.16
1:C:256:LYS:HA	1:C:257:LEU:O	1.45	1.16
1:C:433:GLY:CA	1:C:437:GLY:HA3	1.75	1.16
1:C:341:THR:O	1:K:692:SER:HB2	1.43	1.16
1:B:22:TYR:CE1	1:B:23:LEU:HD21	1.81	1.16
1:B:463:LEU:HD11	1:C:463:LEU:HD23	1.24	1.16
1:F:897:ALA:HB3	1:G:350:GLN:HB3	1.26	1.16
1:J:433:GLY:CA	1:J:437:GLY:HA3	1.74	1.16
1:C:3:PRO:HB3	2:M:115:ASP:CB	1.74	1.16
1:C:257:LEU:CB	1:C:258:GLU:HA	1.75	1.16
1:E:22:TYR:CE1	1:E:23:LEU:HD21	1.81	1.16
3:N:93:LEU:HD13	3:N:93:LEU:C	1.61	1.16
1:C:632:MET:HA	4:O:201:PHE:CZ	1.80	1.16
1:E:251:LYS:CB	1:E:252:GLN:HA	1.73	1.16
1:E:256:LYS:HA	1:E:257:LEU:O	1.45	1.16
1:E:180:LYS:CE	1:F:430:PRO:HG3	1.74	1.16
1:K:432:THR:HG21	1:K:439:GLU:HG3	1.20	1.16
1:E:433:GLY:CA	1:E:437:GLY:HA3	1.76	1.16
1:J:257:LEU:CB	1:J:258:GLU:HA	1.75	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:256:LYS:HA	1:K:257:LEU:O	1.45	1.16
1:K:22:TYR:CE1	1:K:23:LEU:HD21	1.81	1.16
1:J:417:GLY:O	1:L:129:PRO:HD2	1.46	1.16
1:H:5:MET:CB	4:P:51:ARG:HD2	1.75	1.16
1:F:433:GLY:CA	1:F:437:GLY:HA3	1.74	1.16
1:L:256:LYS:HA	1:L:257:LEU:O	1.45	1.16
1:D:256:LYS:HA	1:D:257:LEU:O	1.45	1.16
1:J:606:SER:HB3	5:Q:58:GLU:HB3	1.26	1.16
1:K:897:ALA:CA	4:O:10:MET:HE2	1.76	1.15
1:H:22:TYR:CE1	1:H:23:LEU:HD21	1.81	1.15
1:H:180:LYS:HE2	1:I:430:PRO:HG3	1.20	1.15
1:G:257:LEU:CB	1:G:258:GLU:HA	1.75	1.15
1:K:257:LEU:HB3	1:K:258:GLU:C	1.66	1.15
1:C:728:VAL:HG21	1:E:948:ASN:HB2	1.21	1.15
1:L:719:LYS:CD	5:Q:22:TRP:CD2	2.29	1.15
1:B:251:LYS:CB	1:B:252:GLN:HA	1.73	1.15
1:H:257:LEU:HB3	1:H:258:GLU:C	1.66	1.15
1:I:257:LEU:HB3	1:I:258:GLU:C	1.66	1.15
1:D:257:LEU:CB	1:D:258:GLU:HA	1.76	1.15
1:B:924:VAL:HG21	1:C:14:ILE:CD1	1.75	1.15
1:A:88:GLY:CA	1:E:353:GLN:HE21	1.58	1.15
1:L:257:LEU:HB3	1:L:258:GLU:C	1.66	1.15
1:L:257:LEU:CB	1:L:258:GLU:HA	1.75	1.15
1:I:257:LEU:CB	1:I:258:GLU:HA	1.75	1.15
1:D:433:GLY:CA	1:D:437:GLY:HA3	1.75	1.15
1:F:341:THR:HB	1:G:693:GLY:CA	1.74	1.15
1:D:22:TYR:CE1	1:D:23:LEU:HD21	1.81	1.15
1:F:22:TYR:CE1	1:F:23:LEU:HD21	1.81	1.15
1:F:22:TYR:CE1	1:F:23:LEU:CD2	2.30	1.15
1:I:22:TYR:CE1	1:I:23:LEU:HD21	1.81	1.15
1:C:728:VAL:HB	1:E:948:ASN:N	1.61	1.15
1:C:893:TYR:CE2	1:E:950:THR:HA	1.81	1.15
1:B:433:GLY:CA	1:B:437:GLY:HA3	1.75	1.15
2:M:41:VAL:HG21	3:N:63:PRO:HB2	1.19	1.15
1:D:22:TYR:CE1	1:D:23:LEU:CD2	2.30	1.15
1:C:22:TYR:CE1	1:C:23:LEU:HD21	1.81	1.15
1:L:22:TYR:CE1	1:L:23:LEU:HD21	1.81	1.15
1:J:14:ILE:HD11	1:L:924:VAL:HG21	1.21	1.15
1:K:853:THR:HG21	1:L:295:PRO:HB3	1.28	1.15
1:D:8:GLN:OE1	1:D:8:GLN:HA	1.47	1.15
1:F:257:LEU:CB	1:F:258:GLU:HA	1.76	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:251:LYS:CB	1:G:252:GLN:HA	1.73	1.15
1:C:670:ASN:CB	1:K:353:GLN:CG	2.25	1.15
1:F:667:PRO:HB3	1:G:70:VAL:HG13	1.27	1.14
1:H:22:TYR:CE1	1:H:23:LEU:CD2	2.30	1.14
1:B:256:LYS:HA	1:B:257:LEU:O	1.45	1.14
1:B:257:LEU:CB	1:B:258:GLU:HA	1.75	1.14
1:A:257:LEU:HB3	1:A:258:GLU:C	1.66	1.14
1:A:183:ILE:HG21	1:A:219:ALA:HB2	1.28	1.14
1:F:257:LEU:HB3	1:F:258:GLU:C	1.66	1.14
1:G:257:LEU:HB3	1:G:258:GLU:C	1.66	1.14
1:C:257:LEU:HB3	1:C:258:GLU:C	1.66	1.14
1:D:251:LYS:CB	1:D:252:GLN:HA	1.74	1.14
1:J:257:LEU:HB3	1:J:258:GLU:C	1.66	1.14
1:K:257:LEU:CB	1:K:258:GLU:HA	1.75	1.14
1:A:68:ILE:CG1	1:E:73:GLU:HG2	1.76	1.14
1:G:22:TYR:CE1	1:G:23:LEU:HD21	1.81	1.14
1:J:606:SER:CB	5:Q:58:GLU:HB3	1.76	1.14
1:D:463:LEU:HD23	1:F:463:LEU:HD11	1.25	1.14
1:K:892:LEU:HB2	4:O:189:ILE:HD11	1.25	1.14
1:E:257:LEU:HB3	1:E:258:GLU:C	1.66	1.14
1:F:183:ILE:HG21	1:F:219:ALA:HB2	1.28	1.14
1:A:68:ILE:HB	1:E:73:GLU:CG	1.76	1.14
1:E:22:TYR:CE1	1:E:23:LEU:CD2	2.30	1.14
1:I:6:MET:HB2	1:I:7:PRO:HD3	1.25	1.14
1:G:22:TYR:CE1	1:G:23:LEU:CD2	2.30	1.14
1:K:22:TYR:CE1	1:K:23:LEU:CD2	2.30	1.14
1:J:22:TYR:CE1	1:J:23:LEU:HD21	1.81	1.14
1:B:22:TYR:CE1	1:B:23:LEU:CD2	2.30	1.14
1:G:463:LEU:HD23	1:I:463:LEU:HD11	1.24	1.14
1:A:463:LEU:HD11	1:B:463:LEU:HD23	1.26	1.14
1:L:7:PRO:CB	4:O:47:ILE:HG23	1.78	1.14
1:F:897:ALA:CB	1:G:350:GLN:HB3	1.77	1.14
1:G:940:LEU:HD13	4:P:31:ILE:CG1	1.76	1.14
1:G:940:LEU:HD13	4:P:31:ILE:HG12	1.25	1.14
1:C:728:VAL:HG12	1:E:945:SER:O	1.47	1.14
1:K:924:VAL:HG21	1:L:14:ILE:HD11	1.19	1.14
1:K:3:PRO:CG	1:K:11:TYR:CD2	2.31	1.14
1:L:11:TYR:HB2	4:O:47:ILE:HD11	1.22	1.14
1:A:22:TYR:CE1	1:A:23:LEU:HD21	1.81	1.14
1:G:727:SER:HB3	4:P:15:PRO:CG	1.75	1.14
1:E:948:ASN:CB	1:E:949:ALA:HB2	1.77	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:433:GLY:C	1:A:437:GLY:HA3	1.66	1.14
1:C:22:TYR:CE1	1:C:23:LEU:CD2	2.30	1.14
1:J:728:VAL:HG21	4:P:226:TYR:CG	1.82	1.14
3:N:298:ASN:HD21	4:O:54:ILE:HG23	1.11	1.14
1:I:432:THR:CG2	1:I:439:GLU:HG3	1.78	1.14
1:I:6:MET:HB2	1:I:7:PRO:CD	1.78	1.14
1:E:6:MET:HB2	1:E:7:PRO:CD	1.78	1.14
1:F:427:LYS:HG3	1:F:445:PHE:CD2	1.83	1.14
1:A:22:TYR:CE1	1:A:23:LEU:CD2	2.30	1.13
3:N:194:GLN:N	4:O:207:HIS:HB3	1.63	1.13
1:B:257:LEU:HB3	1:B:258:GLU:C	1.66	1.13
1:F:256:LYS:HA	1:F:257:LEU:O	1.45	1.13
1:C:432:THR:HG21	1:C:439:GLU:HG3	1.27	1.13
1:I:256:LYS:HA	1:I:257:LEU:O	1.45	1.13
1:C:739:PRO:HD2	1:E:341:THR:HB	1.15	1.13
1:C:670:ASN:HB3	1:K:353:GLN:HG2	1.17	1.13
1:I:427:LYS:HG3	1:I:445:PHE:CD2	1.83	1.13
1:G:6:MET:HB2	1:G:7:PRO:CD	1.78	1.13
1:L:3:PRO:CB	4:O:54:ILE:CG2	2.25	1.13
1:J:251:LYS:CB	1:J:252:GLN:HA	1.73	1.13
1:C:739:PRO:HB2	1:E:341:THR:CG2	1.79	1.13
1:B:19:ALA:HB1	1:B:23:LEU:HD12	1.26	1.13
3:N:271:ASP:CB	4:O:61:ILE:HD13	1.77	1.13
1:A:7:PRO:HB3	4:O:41:ILE:HD13	1.27	1.13
1:H:5:MET:HB2	4:P:51:ARG:CD	1.77	1.13
1:J:180:LYS:CE	1:K:430:PRO:HG3	1.77	1.13
1:D:257:LEU:HB3	1:D:258:GLU:C	1.66	1.13
1:A:68:ILE:HB	1:E:73:GLU:CD	1.67	1.13
1:J:638:ASN:ND2	1:K:24:SER:HB3	1.62	1.13
1:J:6:MET:HB2	1:J:7:PRO:CD	1.78	1.13
1:I:19:ALA:HB1	1:I:23:LEU:HD12	1.26	1.13
3:N:271:ASP:OD1	3:N:297:LEU:HD12	1.47	1.13
1:K:129:PRO:HD2	1:L:417:GLY:O	1.48	1.13
1:G:427:LYS:HG3	1:G:445:PHE:CD2	1.83	1.13
1:K:427:LYS:HG3	1:K:445:PHE:CD2	1.83	1.13
1:L:948:ASN:HB2	1:L:949:ALA:HA	1.30	1.13
1:A:14:ILE:HD11	1:C:924:VAL:HG21	1.18	1.13
1:B:432:THR:CG2	1:B:439:GLU:HG3	1.78	1.13
1:L:432:THR:HG21	1:L:439:GLU:HG3	1.22	1.13
1:J:22:TYR:CE1	1:J:23:LEU:CD2	2.30	1.13
3:N:275:PHE:CE2	4:O:62:THR:HG23	1.84	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:129:PRO:HD2	1:I:417:GLY:O	1.46	1.13
1:D:6:MET:HB2	1:D:7:PRO:CD	1.78	1.13
1:B:891:LEU:HD22	1:B:892:LEU:N	1.61	1.13
1:H:427:LYS:HG3	1:H:445:PHE:CD2	1.84	1.13
1:H:924:VAL:HG21	1:I:14:ILE:HD11	1.17	1.13
1:E:281:PRO:HD3	1:F:438:TRP:CH2	1.83	1.12
1:D:27:LEU:HB2	1:F:632:MET:HE3	1.21	1.12
1:E:73:GLU:OE2	1:E:80:LYS:HE3	1.49	1.12
1:B:946:ALA:H	2:M:109:GLN:CA	1.61	1.12
1:B:360:LEU:CD2	2:M:108:THR:HA	1.77	1.12
1:G:463:LEU:HD11	1:H:463:LEU:HD23	1.26	1.12
1:G:63:LEU:HD22	1:I:777:TYR:HE1	1.05	1.12
1:H:777:TYR:HE1	1:I:63:LEU:HD22	1.12	1.12
1:A:427:LYS:HG3	1:A:445:PHE:CD2	1.83	1.12
1:L:5:MET:SD	4:O:51:ARG:NH2	2.21	1.12
1:A:251:LYS:CB	1:A:252:GLN:HA	1.73	1.12
1:L:251:LYS:CB	1:L:252:GLN:HA	1.73	1.12
1:J:19:ALA:HB1	1:J:23:LEU:HD12	1.25	1.12
1:L:22:TYR:CE1	1:L:23:LEU:CD2	2.30	1.12
1:I:22:TYR:CE1	1:I:23:LEU:CD2	2.30	1.12
2:M:48:PRO:HB3	3:N:106:ASN:N	1.63	1.12
1:G:352:SER:O	1:G:353:GLN:HG3	1.49	1.12
1:H:8:GLN:HG3	4:P:31:ILE:HD11	1.15	1.12
1:G:432:THR:HG21	1:G:439:GLU:HG3	1.23	1.12
1:J:892:LEU:HD22	4:P:224:ASP:HA	1.17	1.12
1:B:229:MET:HE1	1:B:314:MET:HG2	1.13	1.12
1:K:183:ILE:HG21	1:K:219:ALA:HB2	1.28	1.12
1:C:427:LYS:HG3	1:C:445:PHE:CD2	1.83	1.12
1:B:427:LYS:HG3	1:B:445:PHE:CD2	1.84	1.12
3:N:194:GLN:H	4:O:207:HIS:CG	1.68	1.12
1:G:354:LEU:HD11	4:P:35:SER:HA	1.21	1.12
1:H:11:TYR:CE1	4:P:43:ARG:HD3	1.85	1.12
1:J:432:THR:CG2	1:J:439:GLU:HG3	1.77	1.12
1:G:432:THR:CG2	1:G:439:GLU:HG3	1.79	1.12
1:H:249:LEU:HD23	1:H:257:LEU:HD11	1.32	1.12
1:H:432:THR:CG2	1:H:439:GLU:HG3	1.76	1.12
1:F:6:MET:HB2	1:F:7:PRO:CD	1.78	1.12
1:E:858:ILE:CD1	5:Q:112:ARG:HH21	1.62	1.12
1:K:432:THR:CG2	1:K:439:GLU:HG3	1.77	1.12
1:L:432:THR:CG2	1:L:439:GLU:HG3	1.78	1.12
1:F:60:SER:HB3	1:J:733:ASN:CA	1.79	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:463:LEU:HD11	1:F:463:LEU:HD23	1.23	1.12
1:L:427:LYS:HG3	1:L:445:PHE:CD2	1.84	1.12
1:G:727:SER:CB	4:P:15:PRO:CB	2.27	1.11
1:H:251:LYS:CB	1:H:252:GLN:HA	1.73	1.11
1:J:256:LYS:HA	1:J:257:LEU:O	1.45	1.11
1:A:70:VAL:HB	1:E:71:ASP:OD1	1.50	1.11
1:D:463:LEU:HD11	1:E:463:LEU:HD23	1.28	1.11
1:J:295:PRO:HB3	1:L:853:THR:HG21	1.31	1.11
1:A:25:PRO:CG	4:O:202:SER:HB3	1.80	1.11
1:I:247:GLY:O	1:I:248:ILE:HG13	1.51	1.11
1:B:891:LEU:CD2	1:B:892:LEU:N	2.14	1.11
1:D:427:LYS:HG3	1:D:445:PHE:CD2	1.83	1.11
1:D:777:TYR:HE1	1:E:63:LEU:HD22	1.11	1.11
1:A:24:SER:HB2	4:O:201:PHE:CB	1.79	1.11
1:F:670:ASN:HB2	1:G:353:GLN:HB3	1.31	1.11
1:F:432:THR:CG2	1:F:439:GLU:HG3	1.78	1.11
1:A:256:LYS:HA	1:A:257:LEU:O	1.45	1.11
1:A:257:LEU:CB	1:A:258:GLU:HA	1.75	1.11
1:F:251:LYS:CB	1:F:252:GLN:HA	1.73	1.11
1:F:632:MET:HB3	4:P:201:PHE:CZ	1.84	1.11
1:F:432:THR:HG21	1:F:439:GLU:HG3	1.22	1.11
1:G:249:LEU:HD23	1:G:257:LEU:HD11	1.32	1.11
1:D:247:GLY:O	1:D:248:ILE:HG13	1.51	1.11
1:B:940:LEU:HA	1:B:947:GLY:HA3	1.24	1.11
1:J:427:LYS:HG3	1:J:445:PHE:CD2	1.83	1.11
1:E:427:LYS:HG3	1:E:445:PHE:CD2	1.84	1.11
1:E:853:THR:HG21	1:F:295:PRO:HB3	1.27	1.11
1:A:7:PRO:CB	4:O:41:ILE:HD13	1.80	1.11
1:D:249:LEU:HD23	1:D:257:LEU:HD11	1.32	1.11
1:D:638:ASN:HD21	1:E:24:SER:HB3	1.16	1.11
1:K:19:ALA:HB1	1:K:23:LEU:HD12	1.26	1.11
1:B:777:TYR:HE1	1:C:63:LEU:CD2	1.62	1.11
1:C:90:ASN:ND2	4:O:224:ASP:HB2	1.63	1.11
1:F:8:GLN:HA	1:F:8:GLN:OE1	1.47	1.11
1:J:728:VAL:HB	4:P:226:TYR:HB3	1.13	1.10
1:L:4:SER:CB	4:O:55:LEU:CD1	2.29	1.10
1:F:667:PRO:CB	1:G:70:VAL:HG13	1.80	1.10
1:L:751:GLU:OE2	5:Q:52:VAL:HG12	1.49	1.10
1:G:431:LYS:O	1:G:432:THR:HB	1.52	1.10
4:P:36:ALA:HA	4:P:40:MET:SD	1.91	1.10
1:B:431:LYS:O	1:B:432:THR:HB	1.51	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:180:LYS:CE	1:C:430:PRO:HG3	1.81	1.10
1:J:950:THR:HA	1:J:951:THR:HB	1.28	1.10
1:D:432:THR:CG2	1:D:439:GLU:HG3	1.81	1.10
1:F:90:ASN:HD21	4:P:222:SER:HB3	0.94	1.10
1:B:360:LEU:HD13	2:M:108:THR:HB	1.24	1.10
1:E:6:MET:HB2	1:E:7:PRO:HD3	1.24	1.10
1:J:876:SER:HB3	1:K:56:THR:HG21	1.29	1.10
1:J:777:TYR:HE1	1:K:63:LEU:HD22	1.12	1.10
1:L:7:PRO:HB2	4:O:47:ILE:HG23	1.14	1.10
4:O:8:PRO:HG2	4:O:51:ARG:HH11	0.95	1.10
1:H:19:ALA:HB1	1:H:23:LEU:HD12	1.26	1.10
1:J:430:PRO:HG3	1:L:180:LYS:HE2	1.20	1.10
1:A:247:GLY:O	1:A:248:ILE:HG13	1.51	1.10
1:H:432:THR:HG21	1:H:439:GLU:HG3	1.18	1.10
1:D:24:SER:HB2	4:P:201:PHE:O	1.49	1.10
1:F:19:ALA:HB1	1:F:23:LEU:HD12	1.26	1.10
1:B:6:MET:CB	1:B:7:PRO:HD3	1.82	1.10
1:H:661:ASN:HB3	5:S:12:SER:HB2	1.31	1.10
1:C:632:MET:CG	4:O:201:PHE:CD2	2.34	1.10
1:A:88:GLY:CA	1:E:353:GLN:CG	2.25	1.10
1:B:432:THR:HG21	1:B:439:GLU:HG3	1.20	1.10
1:B:183:ILE:HG21	1:B:219:ALA:HB2	1.28	1.10
1:K:251:LYS:CB	1:K:252:GLN:HA	1.74	1.10
1:K:638:ASN:ND2	1:L:24:SER:HB3	1.65	1.10
1:H:685:LYS:HG2	5:S:27:GLN:NE2	1.66	1.10
1:H:661:ASN:HB3	5:S:12:SER:CB	1.81	1.10
1:C:635:ASN:HB3	1:C:638:ASN:HD21	1.03	1.10
1:K:938:VAL:HG23	4:O:40:MET:HE1	1.23	1.10
1:H:183:ILE:HG21	1:H:219:ALA:HB2	1.28	1.10
1:F:60:SER:HB3	1:J:733:ASN:HA	1.29	1.10
1:H:72:ARG:NH2	1:J:71:ASP:HB2	1.66	1.10
1:D:27:LEU:CD1	1:F:632:MET:CE	2.30	1.10
1:C:5:MET:O	1:C:6:MET:HG2	1.49	1.10
1:A:237:ALA:HB3	1:A:246:GLN:OE1	1.52	1.10
1:J:463:LEU:HD23	1:L:463:LEU:HD11	1.24	1.10
1:G:5:MET:SD	1:I:894:ALA:HB1	1.92	1.10
1:A:25:PRO:CD	4:O:202:SER:HA	1.80	1.10
1:F:667:PRO:CB	1:G:70:VAL:CG1	2.30	1.10
1:H:11:TYR:HE1	4:P:43:ARG:HD3	0.98	1.10
1:J:432:THR:HG21	1:J:439:GLU:HG3	1.20	1.10
1:D:180:LYS:HE2	1:E:430:PRO:HG3	1.28	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:247:GLY:O	1:G:248:ILE:HG13	1.51	1.10
1:D:430:PRO:HG3	1:F:180:LYS:HE2	1.27	1.10
1:J:6:MET:CB	1:J:7:PRO:HD3	1.82	1.10
1:A:295:PRO:HB3	1:C:853:THR:HG21	1.31	1.10
1:E:924:VAL:HG21	1:F:14:ILE:HD11	1.19	1.10
1:J:654:PRO:CG	5:Q:84:PRO:CG	2.29	1.09
1:E:183:ILE:HG21	1:E:219:ALA:HB2	1.28	1.09
1:E:281:PRO:CD	1:F:438:TRP:CH2	2.33	1.09
1:L:183:ILE:HG21	1:L:219:ALA:HB2	1.28	1.09
1:B:249:LEU:HD23	1:B:257:LEU:HD11	1.32	1.09
1:F:247:GLY:O	1:F:248:ILE:HG13	1.51	1.09
1:E:432:THR:CG2	1:E:439:GLU:HG3	1.80	1.09
1:C:432:THR:CG2	1:C:439:GLU:HG3	1.82	1.09
1:J:247:GLY:O	1:J:248:ILE:HG13	1.51	1.09
1:E:844:ASN:CB	1:F:246:GLN:HE21	1.65	1.09
1:E:808:THR:O	5:T:113:GLU:HG3	1.50	1.09
1:D:924:VAL:HG21	1:E:14:ILE:HD11	1.16	1.09
1:D:948:ASN:HB2	1:D:949:ALA:HA	1.19	1.09
1:D:6:MET:CB	1:D:7:PRO:HD3	1.82	1.09
4:O:36:ALA:HA	4:O:40:MET:SD	1.91	1.09
1:G:938:VAL:HG23	4:P:40:MET:HE1	1.10	1.09
1:F:65:LEU:HD13	1:J:727:SER:HB2	1.16	1.09
1:I:6:MET:CB	1:I:7:PRO:HD3	1.82	1.09
1:C:351:ALA:HB1	1:K:667:PRO:HD3	1.22	1.09
1:G:924:VAL:HG21	1:H:14:ILE:HD11	1.13	1.09
1:H:3:PRO:HB2	4:P:54:ILE:HB	1.20	1.09
1:F:249:LEU:HD23	1:F:257:LEU:HD11	1.32	1.09
1:A:432:THR:CG2	1:A:439:GLU:HG3	1.83	1.09
1:J:892:LEU:CD2	4:P:225:GLY:H	1.63	1.09
1:J:844:ASN:CB	1:K:246:GLN:HE21	1.65	1.09
1:G:876:SER:HB3	1:H:56:THR:HG21	1.28	1.09
1:E:218:ALA:HB3	1:E:283:VAL:HG22	1.30	1.09
1:I:948:ASN:CB	1:I:949:ALA:CB	2.30	1.09
1:F:670:ASN:CB	1:G:353:GLN:CB	2.30	1.09
1:E:249:LEU:HD23	1:E:257:LEU:HD11	1.32	1.09
1:B:247:GLY:O	1:B:248:ILE:HG13	1.51	1.09
1:E:6:MET:CB	1:E:7:PRO:HD3	1.82	1.09
1:C:90:ASN:HD22	4:O:224:ASP:HB2	0.93	1.09
1:J:463:LEU:HD11	1:K:463:LEU:HD23	1.26	1.09
1:E:187:VAL:HG12	1:E:192:PRO:CA	1.83	1.09
1:J:521:ALA:HB2	1:K:551:ASN:HB3	1.32	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:805:VAL:HG12	1:F:855:VAL:HG21	1.09	1.09
1:D:853:THR:HG21	1:E:295:PRO:HB3	1.34	1.09
4:O:159:ARG:HB3	4:O:160:PRO:HD3	1.32	1.09
1:C:632:MET:CG	4:O:201:PHE:CE2	2.35	1.09
1:L:7:PRO:HB3	4:O:47:ILE:HG12	1.32	1.09
4:P:208:TYR:HB2	4:P:209:PRO:HD2	1.35	1.09
1:J:431:LYS:O	1:J:432:THR:HB	1.51	1.09
1:A:248:ILE:HG22	1:A:249:LEU:N	1.66	1.09
1:F:248:ILE:HG22	1:F:249:LEU:N	1.66	1.09
1:I:251:LYS:CB	1:I:252:GLN:HA	1.73	1.09
1:K:3:PRO:HG2	1:K:11:TYR:CD2	1.86	1.09
1:B:638:ASN:HD21	1:C:24:SER:CB	1.66	1.09
1:C:740:ASN:O	1:C:741:GLU:HB3	1.51	1.09
1:E:19:ALA:HB1	1:E:23:LEU:HD12	1.26	1.09
1:J:59:ARG:HB2	4:P:108:LEU:CD1	1.82	1.09
5:Q:111:THR:HG21	5:T:110:LEU:HD11	1.32	1.09
1:B:6:MET:HB2	1:B:7:PRO:CD	1.81	1.09
1:I:444:GLU:HA	1:I:445:PHE:HB2	1.11	1.09
1:C:805:VAL:HG12	1:C:855:VAL:HG21	1.09	1.09
1:A:805:VAL:HG12	1:A:855:VAL:HG21	1.09	1.09
1:D:14:ILE:CD1	1:F:924:VAL:HG21	1.81	1.09
1:C:624:ASN:HB3	4:O:221:ASP:HB3	1.33	1.09
1:A:14:ILE:CD1	1:C:924:VAL:HG21	1.83	1.08
4:O:208:TYR:HB2	4:O:209:PRO:HD2	1.35	1.08
1:G:891:LEU:HD21	1:H:2:THR:HG22	1.27	1.08
1:I:432:THR:HG21	1:I:439:GLU:HG3	1.21	1.08
1:C:249:LEU:HD23	1:C:257:LEU:HD11	1.32	1.08
1:K:180:LYS:HE2	1:L:430:PRO:HG3	1.28	1.08
1:C:736:LEU:O	1:C:739:PRO:HD3	1.53	1.08
1:J:924:VAL:CG2	1:K:14:ILE:HD11	1.83	1.08
1:A:924:VAL:CG2	1:B:14:ILE:HD11	1.84	1.08
1:G:6:MET:CB	1:G:7:PRO:HD3	1.82	1.08
1:H:444:GLU:HA	1:H:445:PHE:HB2	1.11	1.08
1:J:105:VAL:HG11	5:Q:56:PRO:O	1.52	1.08
1:H:187:VAL:HG12	1:H:192:PRO:CA	1.83	1.08
1:J:187:VAL:HG12	1:J:192:PRO:CA	1.83	1.08
1:C:632:MET:HA	4:O:201:PHE:CE1	1.87	1.08
1:J:660:THR:CB	5:R:130:ALA:CB	2.32	1.08
1:K:891:LEU:CD2	1:L:2:THR:HG22	1.82	1.08
1:H:248:ILE:HG22	1:H:249:LEU:N	1.66	1.08
1:H:247:GLY:O	1:H:248:ILE:HG13	1.51	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:431:LYS:O	1:E:432:THR:HB	1.53	1.08
1:K:924:VAL:HG21	1:L:14:ILE:CD1	1.83	1.08
1:E:896:SER:CB	1:K:932:ARG:HH21	1.66	1.08
2:M:155:LYS:O	2:M:156:ASP:HB2	1.51	1.08
1:A:25:PRO:HG2	4:O:202:SER:HB3	1.08	1.08
1:F:948:ASN:HB3	1:G:358:VAL:HG13	1.30	1.08
1:L:3:PRO:CB	4:O:54:ILE:HG21	1.83	1.08
1:G:183:ILE:HG21	1:G:219:ALA:HB2	1.28	1.08
1:D:183:ILE:HG21	1:D:219:ALA:HB2	1.28	1.08
1:A:432:THR:HG21	1:A:439:GLU:HG3	1.27	1.08
1:L:431:LYS:O	1:L:432:THR:HB	1.51	1.08
1:I:249:LEU:HD23	1:I:257:LEU:HD11	1.32	1.08
1:D:431:LYS:O	1:D:432:THR:HB	1.53	1.08
1:J:69:PRO:HG3	1:J:83:PHE:CE2	1.87	1.08
1:J:229:MET:HE1	1:J:314:MET:HG2	1.13	1.08
1:H:661:ASN:CB	5:S:12:SER:HB3	1.83	1.08
1:C:183:ILE:HG21	1:C:219:ALA:HB2	1.28	1.08
1:B:187:VAL:HG12	1:B:192:PRO:CA	1.83	1.08
1:I:805:VAL:HG12	1:I:855:VAL:HG21	1.09	1.08
1:A:187:VAL:HG12	1:A:192:PRO:CA	1.83	1.08
1:C:247:GLY:O	1:C:248:ILE:HG13	1.51	1.08
1:F:6:MET:CB	1:F:7:PRO:HD3	1.82	1.08
1:G:6:MET:HB2	1:G:7:PRO:HD3	1.25	1.08
1:I:183:ILE:HG21	1:I:219:ALA:HB2	1.28	1.08
1:K:187:VAL:HG12	1:K:192:PRO:CA	1.83	1.08
1:F:187:VAL:HG12	1:F:192:PRO:CA	1.83	1.08
1:E:805:VAL:HG12	1:E:855:VAL:HG21	1.09	1.08
1:A:19:ALA:HB1	1:A:23:LEU:HD12	1.26	1.08
1:G:924:VAL:CG2	1:H:14:ILE:HD11	1.82	1.08
1:H:281:PRO:HD3	1:I:438:TRP:CH2	1.88	1.08
1:F:6:MET:HB2	1:F:7:PRO:HD3	1.25	1.08
1:H:62:ARG:HD3	1:J:354:LEU:HD23	1.31	1.08
1:K:248:ILE:HG22	1:K:249:LEU:N	1.66	1.08
1:F:444:GLU:HA	1:F:445:PHE:HB2	1.11	1.08
1:G:444:GLU:HA	1:G:445:PHE:HB2	1.11	1.08
1:E:924:VAL:HG21	1:F:14:ILE:CD1	1.83	1.08
1:C:187:VAL:HG12	1:C:192:PRO:CA	1.83	1.08
1:H:853:THR:HG21	1:I:295:PRO:HB3	1.31	1.08
1:B:853:THR:HG21	1:C:295:PRO:HB3	1.34	1.08
1:J:63:LEU:HD22	1:L:777:TYR:HE1	1.09	1.08
1:K:942:THR:CG2	4:O:29:THR:HG23	1.83	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:7:THR:HB	4:O:25:GLN:HE21	1.11	1.07
1:A:6:MET:HB3	1:A:7:PRO:HD2	1.08	1.07
1:G:948:ASN:CG	4:P:32:ASN:HA	1.75	1.07
1:G:248:ILE:HG22	1:G:249:LEU:N	1.66	1.07
1:C:431:LYS:O	1:C:432:THR:HB	1.53	1.07
1:I:248:ILE:HG22	1:I:249:LEU:N	1.66	1.07
1:I:257:LEU:CB	1:I:258:GLU:CA	2.30	1.07
1:E:894:ALA:CB	1:F:5:MET:SD	2.42	1.07
1:J:249:LEU:HD23	1:J:257:LEU:HD11	1.32	1.07
1:H:62:ARG:HG2	1:J:354:LEU:CD2	1.83	1.07
1:A:68:ILE:HD13	1:E:73:GLU:CB	1.83	1.07
1:A:66:ARG:HD2	1:A:615:TYR:CZ	1.89	1.07
4:P:159:ARG:HB3	4:P:160:PRO:HD3	1.32	1.07
3:N:271:ASP:HB3	4:O:61:ILE:HG21	1.09	1.07
1:K:444:GLU:HA	1:K:445:PHE:HB2	1.11	1.07
1:A:444:GLU:HA	1:A:445:PHE:HB2	1.11	1.07
1:J:183:ILE:HG21	1:J:219:ALA:HB2	1.28	1.07
1:F:608:LYS:HG3	5:T:98:ASP:HB2	1.30	1.07
1:J:259:SER:O	1:J:260:GLN:HG2	1.54	1.07
1:K:249:LEU:HD23	1:K:257:LEU:HD11	1.32	1.07
1:G:229:MET:HE1	1:G:314:MET:HG2	1.10	1.07
1:G:556:PRO:HG3	5:T:52:VAL:HG22	1.33	1.07
1:L:187:VAL:HG12	1:L:192:PRO:CA	1.83	1.07
1:J:129:PRO:HD2	1:K:417:GLY:O	1.50	1.07
1:K:521:ALA:HB2	1:L:551:ASN:HB3	1.36	1.07
1:H:5:MET:HB2	4:P:51:ARG:HD2	1.08	1.07
1:F:934:VAL:HG21	4:P:27:TYR:OH	1.54	1.07
1:A:249:LEU:HD23	1:A:257:LEU:HD11	1.32	1.07
1:K:354:LEU:HD11	4:O:35:SER:HA	1.26	1.07
1:H:67:PHE:CE1	1:J:353:GLN:CD	2.27	1.07
1:B:945:SER:HA	1:B:946:ALA:CB	1.80	1.07
1:C:19:ALA:HB1	1:C:23:LEU:HD12	1.26	1.07
1:J:6:MET:HB2	1:J:7:PRO:HD3	1.24	1.07
1:G:805:VAL:HG12	1:G:855:VAL:HG21	1.09	1.07
1:G:853:THR:HG21	1:H:295:PRO:HB3	1.30	1.07
1:L:805:VAL:HG12	1:L:855:VAL:HG21	1.09	1.07
1:E:8:GLN:OE1	1:E:8:GLN:HA	1.47	1.07
1:D:218:ALA:HB3	1:D:283:VAL:HG22	1.36	1.07
1:D:7:PRO:HB3	4:P:41:ILE:HD13	1.34	1.07
1:A:433:GLY:CA	1:A:437:GLY:HA3	1.83	1.07
1:C:257:LEU:HB3	1:C:258:GLU:HA	1.07	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:259:SER:O	1:C:260:GLN:HG2	1.54	1.07
1:L:247:GLY:O	1:L:248:ILE:HG13	1.51	1.07
1:I:257:LEU:HB3	1:I:258:GLU:HA	1.07	1.07
1:J:248:ILE:HG22	1:J:249:LEU:N	1.66	1.07
1:G:14:ILE:HD11	1:I:924:VAL:HG21	1.08	1.07
1:H:777:TYR:HE1	1:I:63:LEU:CD2	1.67	1.07
1:D:14:ILE:HD11	1:F:924:VAL:HG21	1.12	1.07
1:F:75:THR:HG21	1:G:697:TYR:HE2	1.12	1.07
1:I:8:GLN:HA	1:I:8:GLN:OE1	1.47	1.07
1:D:295:PRO:HB3	1:F:853:THR:HG21	1.30	1.07
1:A:853:THR:HG21	1:B:295:PRO:HB3	1.32	1.07
1:A:63:LEU:HD22	1:C:777:TYR:HE1	1.12	1.07
1:D:129:PRO:HD2	1:E:417:GLY:O	1.50	1.07
1:B:129:PRO:HD2	1:C:417:GLY:O	1.53	1.07
1:F:608:LYS:HD3	5:T:98:ASP:HB2	1.20	1.07
1:E:251:LYS:HB3	1:E:252:GLN:CA	1.85	1.07
1:H:259:SER:O	1:H:260:GLN:HG2	1.54	1.07
1:H:431:LYS:O	1:H:432:THR:HB	1.50	1.07
1:H:281:PRO:CD	1:I:438:TRP:CH2	2.38	1.07
1:C:248:ILE:HG22	1:C:249:LEU:N	1.66	1.07
1:D:259:SER:O	1:D:260:GLN:HG2	1.54	1.07
2:M:39:PRO:HG3	3:N:27:TRP:HB3	1.26	1.07
1:H:689:SER:HB2	1:H:695:ASP:OD1	1.54	1.07
1:L:444:GLU:HA	1:L:445:PHE:HB2	1.10	1.07
4:O:8:PRO:HG2	4:O:51:ARG:NH1	1.68	1.06
1:F:670:ASN:HB3	1:G:353:GLN:CB	1.85	1.06
1:B:248:ILE:HG22	1:B:249:LEU:N	1.66	1.06
1:I:431:LYS:O	1:I:432:THR:HB	1.52	1.06
1:J:251:LYS:HB3	1:J:252:GLN:CA	1.85	1.06
1:A:463:LEU:HD23	1:C:463:LEU:HD11	1.21	1.06
1:B:444:GLU:HA	1:B:445:PHE:HB2	1.11	1.06
1:E:444:GLU:HA	1:E:445:PHE:HB2	1.11	1.06
1:D:924:VAL:HG21	1:E:14:ILE:CD1	1.84	1.06
1:G:295:PRO:HB3	1:I:853:THR:HG21	1.37	1.06
1:D:187:VAL:HG12	1:D:192:PRO:CA	1.83	1.06
5:Q:104:LEU:HD12	5:T:103:LEU:HG	1.29	1.06
1:G:187:VAL:HG12	1:G:192:PRO:CA	1.83	1.06
1:H:19:ALA:O	1:H:23:LEU:HB2	1.55	1.06
1:E:247:GLY:O	1:E:248:ILE:HG13	1.51	1.06
1:D:432:THR:HG21	1:D:439:GLU:HG3	1.26	1.06
1:B:924:VAL:CG2	1:C:14:ILE:HD11	1.86	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:360:LEU:HD22	2:M:108:THR:HA	1.07	1.06
1:C:934:VAL:HG21	4:O:27:TYR:OH	1.56	1.06
1:A:25:PRO:CG	4:O:202:SER:CA	2.28	1.06
1:L:4:SER:HB3	4:O:55:LEU:CD1	1.86	1.06
1:J:660:THR:HB	5:R:130:ALA:HB2	1.24	1.06
1:G:884:LEU:HD12	1:H:49:VAL:HG22	1.14	1.06
1:K:247:GLY:O	1:K:248:ILE:HG13	1.51	1.06
1:G:19:ALA:O	1:G:23:LEU:HB2	1.55	1.06
1:B:132:CYS:SG	1:B:229:MET:HE2	1.95	1.06
1:D:444:GLU:HA	1:D:445:PHE:HB2	1.11	1.06
1:I:187:VAL:HG12	1:I:192:PRO:CA	1.83	1.06
1:H:699:THR:HG22	5:S:32:SER:CB	1.85	1.06
1:K:805:VAL:HG12	1:K:855:VAL:HG21	1.09	1.06
1:I:908:PRO:HB3	5:T:43:ASN:HD22	1.01	1.06
1:J:805:VAL:HG12	1:J:855:VAL:HG21	1.09	1.06
1:G:656:PRO:HB2	5:Q:86:ALA:O	1.55	1.06
1:K:940:LEU:CD1	4:O:31:ILE:HG12	1.84	1.06
1:G:891:LEU:HB3	1:G:895:ASN:ND2	1.71	1.06
1:E:180:LYS:HE2	1:F:430:PRO:HG3	1.34	1.06
1:B:251:LYS:HB3	1:B:252:GLN:CA	1.85	1.06
1:G:251:LYS:HB3	1:G:252:GLN:CA	1.85	1.06
1:L:249:LEU:HD23	1:L:257:LEU:HD11	1.32	1.06
1:L:257:LEU:HB3	1:L:258:GLU:HA	1.07	1.06
1:H:65:LEU:HB3	1:J:353:GLN:NE2	1.71	1.06
1:F:632:MET:HB3	4:P:201:PHE:CD2	1.90	1.06
1:F:19:ALA:O	1:F:23:LEU:HB2	1.55	1.06
1:J:132:CYS:SG	1:J:229:MET:HE2	1.95	1.06
1:C:670:ASN:HB3	1:K:353:GLN:CB	1.85	1.06
1:J:8:GLN:OE1	1:J:8:GLN:HA	1.47	1.06
3:N:279:THR:HB	4:O:80:TYR:OH	1.51	1.06
1:B:218:ALA:HB3	1:B:283:VAL:HG22	1.38	1.06
1:K:938:VAL:CG2	4:O:40:MET:HE1	1.84	1.06
1:A:259:SER:O	1:A:260:GLN:HG2	1.54	1.06
1:C:251:LYS:HB3	1:C:252:GLN:CA	1.85	1.06
1:D:251:LYS:HB3	1:D:252:GLN:CA	1.85	1.06
1:F:60:SER:CB	1:J:733:ASN:HA	1.86	1.06
1:L:19:ALA:HB1	1:L:23:LEU:HD12	1.26	1.06
1:E:129:PRO:HD2	1:F:417:GLY:O	1.56	1.06
1:K:897:ALA:CB	4:O:10:MET:CE	2.34	1.05
1:E:949:ALA:HB3	1:E:950:THR:HB	1.08	1.05
1:E:257:LEU:HB3	1:E:258:GLU:HA	1.07	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:251:LYS:HB3	1:H:252:GLN:CA	1.85	1.05
1:A:180:LYS:HE2	1:B:430:PRO:HG3	1.33	1.05
1:H:72:ARG:HH22	1:J:71:ASP:HB2	0.93	1.05
1:B:19:ALA:O	1:B:23:LEU:HB2	1.55	1.05
1:C:444:GLU:HA	1:C:445:PHE:HB2	1.11	1.05
1:J:444:GLU:HA	1:J:445:PHE:HB2	1.10	1.05
1:D:948:ASN:HB2	1:D:949:ALA:CA	1.86	1.05
1:E:187:VAL:CG1	1:E:192:PRO:HA	1.86	1.05
1:H:187:VAL:CG1	1:H:192:PRO:HA	1.86	1.05
1:H:805:VAL:HG12	1:H:855:VAL:HG21	1.09	1.05
1:K:218:ALA:HB3	1:K:283:VAL:HG22	1.37	1.05
1:F:669:ARG:CB	1:G:82:ARG:HH22	1.69	1.05
1:G:939:TYR:HB2	4:P:32:ASN:HD21	1.06	1.05
1:E:948:ASN:CB	1:E:949:ALA:CB	2.32	1.05
1:E:259:SER:O	1:E:260:GLN:HG2	1.54	1.05
1:B:257:LEU:CB	1:B:258:GLU:CA	2.30	1.05
1:B:259:SER:O	1:B:260:GLN:HG2	1.54	1.05
1:I:259:SER:O	1:I:260:GLN:HG2	1.54	1.05
1:E:19:ALA:O	1:E:23:LEU:HB2	1.55	1.05
1:A:293:GLU:OE1	1:C:853:THR:HG22	1.56	1.05
1:B:187:VAL:CG1	1:B:192:PRO:HA	1.86	1.05
1:L:187:VAL:CG1	1:L:192:PRO:HA	1.86	1.05
1:G:8:GLN:OE1	1:G:8:GLN:HA	1.47	1.05
1:K:892:LEU:HB2	4:O:189:ILE:CD1	1.86	1.05
1:C:3:PRO:CG	2:M:115:ASP:CB	2.34	1.05
1:K:431:LYS:O	1:K:432:THR:HB	1.51	1.05
1:F:259:SER:O	1:F:260:GLN:HG2	1.54	1.05
1:A:431:LYS:O	1:A:432:THR:HB	1.51	1.05
1:L:251:LYS:HB3	1:L:252:GLN:CA	1.85	1.05
1:I:251:LYS:HB3	1:I:252:GLN:CA	1.85	1.05
1:F:59:ARG:CA	1:K:60:SER:HB3	1.86	1.05
1:J:950:THR:HB	1:J:951:THR:CG2	1.85	1.05
1:A:59:ARG:HD3	1:E:354:LEU:CD2	1.85	1.05
1:E:632:MET:HB3	1:F:27:LEU:HD21	1.32	1.05
1:A:229:MET:HE1	1:A:314:MET:HG2	1.10	1.05
1:J:19:ALA:O	1:J:23:LEU:HB2	1.55	1.05
1:J:444:GLU:HA	1:J:445:PHE:CB	1.87	1.05
1:C:282:LYS:O	1:C:283:VAL:HG23	1.55	1.05
1:C:218:ALA:HB3	1:C:283:VAL:HG22	1.07	1.05
1:D:400:ILE:HD11	1:D:476:ILE:HD13	1.39	1.05
1:B:737:LEU:HA	1:C:62:ARG:HH21	1.22	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:5:MET:HB3	4:O:51:ARG:HD2	1.08	1.05
1:H:257:LEU:HB3	1:H:258:GLU:HA	1.07	1.05
1:G:180:LYS:HE2	1:H:430:PRO:HG3	1.39	1.05
1:C:341:THR:CB	1:K:693:GLY:HA3	1.86	1.05
1:J:950:THR:HB	1:J:951:THR:HB	1.17	1.05
1:K:251:LYS:HB3	1:K:252:GLN:CA	1.85	1.05
1:B:941:ARG:HH12	2:M:108:THR:HG21	1.00	1.05
1:K:19:ALA:O	1:K:23:LEU:HB2	1.55	1.05
1:C:351:ALA:HB1	1:K:667:PRO:CD	1.85	1.05
1:A:187:VAL:CG1	1:A:192:PRO:HA	1.86	1.05
1:D:187:VAL:CG1	1:D:192:PRO:HA	1.86	1.05
1:H:948:ASN:HB2	1:H:949:ALA:HA	1.36	1.05
1:D:417:GLY:O	1:F:129:PRO:HD2	1.57	1.05
1:B:805:VAL:HG12	1:B:855:VAL:HG21	1.09	1.05
1:A:6:MET:CB	1:A:7:PRO:CD	2.34	1.05
1:E:948:ASN:CB	1:E:949:ALA:HA	1.87	1.05
1:C:893:TYR:CZ	1:E:950:THR:CA	2.39	1.05
1:L:759:ASN:HB3	5:Q:50:GLU:OE2	1.55	1.05
1:L:259:SER:O	1:L:260:GLN:HG2	1.54	1.05
1:K:259:SER:O	1:K:260:GLN:HG2	1.54	1.05
1:C:19:ALA:O	1:C:23:LEU:HB2	1.55	1.05
1:C:670:ASN:CB	1:K:353:GLN:HB3	1.85	1.05
1:K:187:VAL:CG1	1:K:192:PRO:HA	1.86	1.05
1:D:748:VAL:HB	5:R:51:THR:O	1.56	1.05
1:F:251:LYS:HB3	1:F:252:GLN:CA	1.85	1.04
1:G:259:SER:O	1:G:260:GLN:HG2	1.54	1.04
1:D:248:ILE:HG22	1:D:249:LEU:N	1.66	1.04
1:D:638:ASN:HD21	1:E:24:SER:HB2	1.21	1.04
1:B:891:LEU:HB2	3:N:93:LEU:HB2	1.34	1.04
1:D:948:ASN:CB	1:D:949:ALA:HA	1.83	1.04
1:J:187:VAL:CG1	1:J:192:PRO:HA	1.86	1.04
1:H:601:ARG:HH11	1:H:601:ARG:HG3	0.89	1.04
1:D:805:VAL:HG12	1:D:855:VAL:HG21	1.09	1.04
1:A:8:GLN:HA	1:A:8:GLN:OE1	1.54	1.04
1:A:25:PRO:CG	4:O:202:SER:CB	2.34	1.04
1:L:5:MET:HB3	4:O:51:ARG:CD	1.86	1.04
1:A:251:LYS:HB3	1:A:252:GLN:CA	1.85	1.04
1:J:180:LYS:HE2	1:K:430:PRO:HG3	1.36	1.04
1:D:27:LEU:CB	1:F:632:MET:HE3	1.88	1.04
1:F:65:LEU:HD13	1:J:727:SER:CB	1.87	1.04
1:B:360:LEU:HD13	2:M:108:THR:CB	1.87	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:271:ASP:HB3	4:O:61:ILE:CG2	1.87	1.04
1:I:218:ALA:HB3	1:I:283:VAL:HG22	1.35	1.04
1:K:942:THR:HG21	4:O:29:THR:HG23	1.40	1.04
1:E:949:ALA:N	1:E:950:THR:HB	1.71	1.04
1:E:248:ILE:HG22	1:E:249:LEU:N	1.66	1.04
1:K:938:VAL:CG2	4:O:40:MET:CE	2.35	1.04
1:G:430:PRO:HG3	1:I:180:LYS:CE	1.87	1.04
1:K:66:ARG:HD3	1:K:615:TYR:OH	1.56	1.04
1:H:62:ARG:CZ	1:J:354:LEU:HB2	1.86	1.04
1:K:727:SER:HB3	4:O:15:PRO:CB	1.86	1.04
1:G:14:ILE:HD11	1:I:924:VAL:CG2	1.86	1.04
1:C:444:GLU:HA	1:C:445:PHE:CB	1.87	1.04
1:E:400:ILE:HD11	1:E:476:ILE:HD13	1.39	1.04
1:J:853:THR:HG21	1:K:295:PRO:HB3	1.34	1.04
1:A:777:TYR:HE1	1:B:63:LEU:HD22	1.20	1.04
1:F:24:SER:HB3	1:F:27:LEU:HD12	1.37	1.04
1:F:229:MET:HE1	1:F:314:MET:HG2	1.09	1.04
1:D:777:TYR:HE1	1:E:63:LEU:CD2	1.69	1.04
1:C:187:VAL:CG1	1:C:192:PRO:HA	1.86	1.04
1:K:400:ILE:HD11	1:K:476:ILE:HD13	1.39	1.04
1:B:400:ILE:HD11	1:B:476:ILE:HD13	1.39	1.04
1:J:654:PRO:CD	5:Q:84:PRO:CG	2.35	1.04
1:A:19:ALA:O	1:A:23:LEU:HB2	1.55	1.04
1:A:25:PRO:HB2	4:O:203:GLY:H	1.22	1.04
1:A:7:PRO:HB3	4:O:41:ILE:CD1	1.85	1.04
1:A:24:SER:HB2	4:O:201:PHE:HB2	1.40	1.04
1:L:11:TYR:CE1	4:O:43:ARG:CD	2.40	1.04
1:I:948:ASN:CB	1:I:949:ALA:HA	1.87	1.04
1:F:608:LYS:HG3	5:T:98:ASP:CB	1.86	1.04
1:G:884:LEU:HD23	1:G:922:PHE:CE2	1.92	1.04
1:E:948:ASN:CB	1:E:949:ALA:CA	2.31	1.04
1:G:938:VAL:CG2	4:P:40:MET:HE1	1.87	1.04
1:L:248:ILE:HG22	1:L:249:LEU:N	1.66	1.04
1:A:132:CYS:SG	1:A:229:MET:HE2	1.98	1.04
1:G:132:CYS:SG	1:G:229:MET:HE2	1.98	1.04
1:J:63:LEU:CD2	1:L:777:TYR:HE1	1.69	1.04
1:F:75:THR:HG21	1:G:697:TYR:CE2	1.93	1.04
1:H:697:TYR:HA	5:S:31:GLY:HA2	1.37	1.04
1:A:218:ALA:HB3	1:A:283:VAL:HG22	1.39	1.04
1:J:257:LEU:HB3	1:J:258:GLU:HA	1.07	1.03
1:J:950:THR:CB	1:J:951:THR:CB	2.29	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:19:ALA:O	1:D:23:LEU:HB2	1.55	1.03
1:B:777:TYR:CE1	1:C:63:LEU:CD2	2.41	1.03
1:J:463:LEU:HD21	1:L:463:LEU:HD21	1.39	1.03
1:G:187:VAL:CG1	1:G:192:PRO:HA	1.86	1.03
1:I:908:PRO:HB3	5:T:43:ASN:ND2	1.71	1.03
1:G:218:ALA:HB3	1:G:283:VAL:HG22	1.34	1.03
3:N:298:ASN:ND2	4:O:54:ILE:HG23	1.73	1.03
1:B:257:LEU:HB3	1:B:258:GLU:HA	1.07	1.03
1:F:257:LEU:HB3	1:F:258:GLU:HA	1.07	1.03
1:B:638:ASN:ND2	1:C:24:SER:HB3	1.71	1.03
1:J:59:ARG:HA	4:P:108:LEU:HD11	1.04	1.03
1:K:727:SER:HB2	4:O:15:PRO:HG2	1.40	1.03
1:I:187:VAL:CG1	1:I:192:PRO:HA	1.86	1.03
1:F:218:ALA:HB3	1:F:283:VAL:HG22	1.40	1.03
1:K:942:THR:CB	4:O:29:THR:HG23	1.88	1.03
1:H:4:SER:CB	4:P:55:LEU:HD13	1.89	1.03
1:A:257:LEU:HB3	1:A:258:GLU:HA	1.07	1.03
1:K:939:TYR:CB	4:O:32:ASN:ND2	2.21	1.03
1:G:257:LEU:HB3	1:G:258:GLU:HA	1.07	1.03
1:H:685:LYS:CG	5:S:27:GLN:HE22	1.72	1.03
1:B:777:TYR:CE1	1:C:63:LEU:HD22	1.93	1.03
1:G:63:LEU:CD2	1:I:777:TYR:HE1	1.70	1.03
1:D:444:GLU:HA	1:D:445:PHE:CB	1.87	1.03
3:N:193:ARG:HB3	4:O:207:HIS:NE2	1.74	1.03
1:G:892:LEU:HB2	4:P:189:ILE:HD11	1.40	1.03
1:L:859:THR:HB	5:Q:52:VAL:HG23	1.38	1.03
1:C:3:PRO:CB	2:M:115:ASP:CG	2.26	1.03
1:H:257:LEU:CB	1:H:258:GLU:CA	2.30	1.03
1:B:180:LYS:HE2	1:C:430:PRO:HG3	1.37	1.03
1:H:62:ARG:HG2	1:J:354:LEU:HD21	1.39	1.03
1:B:924:VAL:HG21	1:C:14:ILE:HD11	1.04	1.03
1:F:187:VAL:CG1	1:F:192:PRO:HA	1.86	1.03
1:L:8:GLN:OE1	1:L:8:GLN:HA	1.52	1.03
1:L:19:ALA:O	1:L:23:LEU:HB2	1.55	1.03
1:A:246:GLN:NE2	1:C:844:ASN:HB3	1.72	1.03
1:E:463:LEU:HD21	1:F:463:LEU:HD21	1.40	1.03
1:G:521:ALA:HB2	1:H:551:ASN:HB3	1.37	1.03
1:D:551:ASN:HB3	1:F:521:ALA:HB2	1.38	1.03
1:F:667:PRO:HB3	1:G:70:VAL:CG1	1.85	1.02
1:C:229:MET:HE1	1:C:314:MET:HG2	1.03	1.02
1:A:63:LEU:CD2	1:C:777:TYR:HE1	1.72	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:697:TYR:HE2	5:Q:75:ILE:HG22	1.20	1.02
1:G:400:ILE:HD11	1:G:476:ILE:HD13	1.39	1.02
1:J:412:TYR:OH	1:K:835:MET:HA	1.59	1.02
1:A:24:SER:CB	4:O:201:PHE:HB2	1.90	1.02
1:I:950:THR:O	1:I:950:THR:HG22	1.58	1.02
1:L:748:VAL:HB	5:Q:51:THR:O	1.57	1.02
1:C:3:PRO:CB	2:M:115:ASP:CB	2.36	1.02
1:K:257:LEU:HB3	1:K:258:GLU:HA	1.07	1.02
1:D:27:LEU:HD13	1:F:632:MET:HE2	1.07	1.02
1:I:229:MET:HE1	1:I:314:MET:HG2	1.04	1.02
1:I:19:ALA:O	1:I:23:LEU:HB2	1.55	1.02
1:J:777:TYR:HE1	1:K:63:LEU:CD2	1.72	1.02
1:H:400:ILE:HD11	1:H:476:ILE:HD13	1.39	1.02
1:I:949:ALA:N	1:I:950:THR:HB	1.73	1.02
1:G:941:ARG:O	1:G:945:SER:HA	1.57	1.02
1:C:3:PRO:HG3	2:M:115:ASP:CB	1.87	1.02
1:J:892:LEU:HD22	4:P:224:ASP:CA	1.89	1.02
1:E:632:MET:HB2	1:F:27:LEU:HD21	1.37	1.02
1:E:632:MET:HB3	1:F:27:LEU:CD2	1.89	1.02
1:B:638:ASN:HD21	1:C:24:SER:HB3	0.85	1.02
1:J:924:VAL:HG21	1:K:14:ILE:HD11	1.06	1.02
1:H:659:ALA:HA	5:S:11:VAL:HG21	1.37	1.02
1:G:417:GLY:O	1:I:129:PRO:HD2	1.58	1.02
1:K:876:SER:HB3	1:L:56:THR:HG21	1.40	1.02
1:K:670:ASN:HA	4:O:10:MET:HE3	1.02	1.02
1:K:949:ALA:N	4:O:30:ARG:HH11	1.57	1.02
1:K:938:VAL:HG23	4:O:40:MET:HE2	1.35	1.02
1:C:3:PRO:HB3	2:M:115:ASP:OD2	1.57	1.02
1:C:737:LEU:HD13	1:C:753:TYR:CE2	1.93	1.02
1:A:400:ILE:HD11	1:A:476:ILE:HD13	1.39	1.02
1:F:431:LYS:O	1:F:432:THR:HB	1.52	1.02
1:B:672:ALA:O	1:B:943:PRO:HG3	1.58	1.02
1:A:463:LEU:HD21	1:C:463:LEU:HD21	1.42	1.02
1:B:874:PHE:HZ	1:B:893:TYR:CE1	1.78	1.02
1:B:891:LEU:HD22	1:B:892:LEU:H	1.14	1.02
1:K:444:GLU:HA	1:K:445:PHE:CB	1.87	1.02
1:K:412:TYR:OH	1:L:835:MET:HA	1.60	1.02
1:B:8:GLN:HA	1:B:8:GLN:OE1	1.55	1.02
1:I:400:ILE:HD11	1:I:476:ILE:HD13	1.39	1.02
1:J:400:ILE:HD11	1:J:476:ILE:HD13	1.39	1.02
1:A:876:SER:HB3	1:B:56:THR:HG21	1.37	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:726:SER:O	1:K:67:PHE:HA	1.59	1.01
1:H:132:CYS:SG	1:H:229:MET:CE	2.49	1.01
1:K:725:ASP:OD2	4:O:15:PRO:HD3	1.60	1.01
1:L:874:PHE:HZ	1:L:893:TYR:CE1	1.78	1.01
1:L:444:GLU:HA	1:L:445:PHE:CB	1.86	1.01
1:H:661:ASN:CB	5:S:12:SER:CB	2.38	1.01
1:L:400:ILE:HD11	1:L:476:ILE:HD13	1.39	1.01
1:K:897:ALA:HB2	4:O:10:MET:CE	1.89	1.01
1:I:948:ASN:HB2	1:I:949:ALA:HB2	1.03	1.01
1:I:948:ASN:CB	1:I:949:ALA:CA	2.31	1.01
1:H:62:ARG:CG	1:J:354:LEU:HD23	1.90	1.01
1:D:132:CYS:SG	1:D:229:MET:CE	2.48	1.01
1:F:132:CYS:SG	1:F:229:MET:HE2	1.99	1.01
1:F:444:GLU:HA	1:F:445:PHE:CB	1.87	1.01
1:D:874:PHE:HZ	1:D:893:TYR:CE1	1.78	1.01
1:E:876:SER:HB3	1:F:56:THR:HG21	1.42	1.01
1:H:412:TYR:OH	1:I:835:MET:HA	1.60	1.01
1:K:669:ARG:HH11	4:O:28:SER:HB3	1.25	1.01
1:E:281:PRO:HB3	1:F:438:TRP:HZ3	1.26	1.01
1:C:947:GLY:C	1:K:344:MET:HE2	1.81	1.01
1:D:257:LEU:HB3	1:D:258:GLU:HA	1.07	1.01
1:I:132:CYS:SG	1:I:229:MET:CE	2.49	1.01
1:G:463:LEU:HD21	1:I:463:LEU:HD21	1.41	1.01
1:K:463:LEU:HD21	1:L:463:LEU:HD21	1.37	1.01
1:G:293:GLU:OE1	1:I:853:THR:HG22	1.60	1.01
1:D:747:SER:O	1:D:748:VAL:HG13	1.60	1.01
1:G:551:ASN:HB3	1:I:521:ALA:HB2	1.41	1.01
1:J:835:MET:HA	1:L:412:TYR:OH	1.60	1.01
1:J:218:ALA:HB3	1:J:283:VAL:HG22	1.42	1.01
1:C:400:ILE:HD11	1:C:476:ILE:HD13	1.39	1.01
1:H:4:SER:HA	4:P:54:ILE:CD1	1.90	1.01
1:J:889:GLN:HG3	4:P:17:MET:HE1	1.39	1.01
1:F:132:CYS:SG	1:F:229:MET:CE	2.49	1.01
1:K:132:CYS:SG	1:K:229:MET:CE	2.48	1.01
1:B:132:CYS:SG	1:B:229:MET:CE	2.49	1.01
1:G:556:PRO:HB2	5:T:52:VAL:HG21	1.42	1.01
1:H:874:PHE:HZ	1:H:893:TYR:CE1	1.78	1.01
5:R:117:VAL:CG1	5:S:114:LEU:HD21	1.89	1.01
1:A:521:ALA:HB2	1:B:551:ASN:HB3	1.38	1.01
1:I:874:PHE:HZ	1:I:893:TYR:CE1	1.78	1.01
1:G:938:VAL:HG23	4:P:40:MET:HE2	1.40	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:281:PRO:HD3	1:B:438:TRP:CZ3	1.95	1.01
1:C:947:GLY:C	1:K:344:MET:CE	2.29	1.01
1:F:60:SER:HB3	1:J:733:ASN:N	1.75	1.01
1:B:945:SER:CA	1:B:946:ALA:HB3	1.90	1.01
1:J:132:CYS:SG	1:J:229:MET:CE	2.48	1.01
1:C:132:CYS:SG	1:C:229:MET:CE	2.49	1.01
1:L:132:CYS:SG	1:L:229:MET:CE	2.49	1.01
1:G:132:CYS:SG	1:G:229:MET:CE	2.49	1.01
1:G:63:LEU:HD22	1:I:777:TYR:CE1	1.94	1.01
2:M:48:PRO:CA	3:N:106:ASN:HB2	1.91	1.01
1:E:874:PHE:HZ	1:E:893:TYR:CE1	1.78	1.01
1:K:940:LEU:HD13	4:O:31:ILE:HG12	1.05	1.00
4:P:55:LEU:CD2	4:P:194:PRO:HB2	1.91	1.00
1:C:874:PHE:HZ	1:C:893:TYR:CE1	1.78	1.00
1:D:438:TRP:CH2	1:F:281:PRO:CG	2.44	1.00
2:M:39:PRO:HG3	3:N:27:TRP:CG	1.95	1.00
1:A:132:CYS:SG	1:A:229:MET:CE	2.48	1.00
1:E:132:CYS:SG	1:E:229:MET:CE	2.49	1.00
1:H:924:VAL:HG21	1:I:14:ILE:CD1	1.91	1.00
1:D:14:ILE:HD11	1:F:924:VAL:CG2	1.91	1.00
1:L:218:ALA:HB3	1:L:283:VAL:HG22	1.41	1.00
1:A:874:PHE:HZ	1:A:893:TYR:CE1	1.78	1.00
1:L:11:TYR:HE1	4:O:43:ARG:CD	1.74	1.00
1:G:430:PRO:HG3	1:I:180:LYS:HE2	1.42	1.00
1:B:432:THR:CG2	1:B:439:GLU:CD	2.30	1.00
1:B:940:LEU:CA	1:B:947:GLY:HA2	1.91	1.00
1:L:229:MET:HE1	1:L:314:MET:HG2	1.00	1.00
1:H:601:ARG:HH11	1:H:601:ARG:CG	1.75	1.00
1:D:412:TYR:OH	1:E:835:MET:HA	1.60	1.00
1:E:249:LEU:HA	1:E:257:LEU:CD2	1.92	1.00
1:K:432:THR:CG2	1:K:439:GLU:CD	2.30	1.00
1:F:249:LEU:HA	1:F:257:LEU:CD2	1.91	1.00
1:C:260:GLN:O	1:C:261:VAL:CG2	2.10	1.00
1:L:432:THR:CG2	1:L:439:GLU:CD	2.30	1.00
1:B:940:LEU:CA	1:B:947:GLY:CA	2.39	1.00
1:D:229:MET:HE1	1:D:314:MET:HG2	1.01	1.00
1:H:894:ALA:CB	1:I:5:MET:SD	2.49	1.00
1:D:63:LEU:HD22	1:F:777:TYR:HE1	1.24	1.00
5:R:110:LEU:HD21	5:S:121:LEU:HD12	1.42	1.00
1:J:728:VAL:HB	4:P:226:TYR:CB	1.91	1.00
1:G:725:ASP:O	4:P:15:PRO:HG2	1.61	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:751:GLU:OE1	5:Q:52:VAL:HG12	1.60	1.00
1:G:260:GLN:O	1:G:261:VAL:CG2	2.10	1.00
1:L:260:GLN:O	1:L:261:VAL:CG2	2.10	1.00
1:I:249:LEU:HA	1:I:257:LEU:CD2	1.92	1.00
1:F:59:ARG:HA	1:K:60:SER:HB3	1.42	1.00
1:H:229:MET:HE1	1:H:314:MET:HG2	1.02	1.00
5:R:107:LEU:HD11	5:S:125:ARG:HB2	1.41	1.00
1:F:874:PHE:HZ	1:F:893:TYR:CE1	1.78	1.00
1:E:432:THR:CG2	1:E:439:GLU:CD	2.30	1.00
1:C:432:THR:CG2	1:C:439:GLU:CD	2.30	1.00
1:J:260:GLN:O	1:J:261:VAL:CG2	2.10	1.00
1:K:229:MET:HE1	1:K:314:MET:HG2	1.03	1.00
4:O:7:THR:HB	4:O:25:GLN:NE2	1.75	1.00
1:G:352:SER:C	1:G:353:GLN:HG3	1.78	1.00
1:D:260:GLN:O	1:D:261:VAL:CG2	2.10	1.00
1:D:432:THR:CG2	1:D:439:GLU:CD	2.30	1.00
1:D:737:LEU:HA	1:E:62:ARG:HH21	1.26	1.00
1:I:444:GLU:HA	1:I:445:PHE:CB	1.87	1.00
1:E:444:GLU:HA	1:E:445:PHE:CB	1.87	1.00
1:E:924:VAL:CG2	1:F:14:ILE:HD11	1.92	1.00
1:D:25:PRO:HG2	4:P:202:SER:HB3	1.40	1.00
1:I:949:ALA:HB3	1:I:950:THR:HB	1.05	1.00
1:I:432:THR:CG2	1:I:439:GLU:CD	2.30	1.00
1:E:229:MET:HE1	1:E:314:MET:CG	1.91	1.00
1:A:246:GLN:NE2	1:C:844:ASN:CB	2.24	1.00
1:A:924:VAL:HG21	1:B:14:ILE:HD11	1.04	1.00
1:B:463:LEU:HD21	1:C:463:LEU:HD21	1.42	1.00
1:A:432:THR:CG2	1:A:439:GLU:CD	2.30	0.99
1:G:444:GLU:HA	1:G:445:PHE:CB	1.87	0.99
1:B:444:GLU:HA	1:B:445:PHE:CB	1.87	0.99
1:J:551:ASN:HB3	1:L:521:ALA:HB2	1.44	0.99
1:D:521:ALA:HB2	1:E:551:ASN:HB3	1.43	0.99
1:F:432:THR:CG2	1:F:439:GLU:CD	2.30	0.99
1:G:249:LEU:HA	1:G:257:LEU:CD2	1.92	0.99
1:G:257:LEU:CB	1:G:258:GLU:CA	2.30	0.99
1:A:249:LEU:CA	1:A:257:LEU:HD21	1.93	0.99
1:F:90:ASN:HD21	4:P:222:SER:CB	1.75	0.99
1:J:947:GLY:HA2	1:J:948:ASN:C	1.75	0.99
1:J:673:ALA:HB2	1:K:9:TRP:HZ2	0.85	0.99
1:L:11:TYR:CB	4:O:47:ILE:CD1	2.39	0.99
1:E:257:LEU:CB	1:E:258:GLU:CA	2.30	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:129:PRO:HD2	1:B:417:GLY:O	1.63	0.99
1:K:897:ALA:HA	4:O:10:MET:CE	1.92	0.99
1:K:897:ALA:HA	4:O:10:MET:HE2	1.41	0.99
1:C:728:VAL:HB	1:E:948:ASN:H	1.13	0.99
1:H:249:LEU:CA	1:H:257:LEU:HD21	1.93	0.99
1:J:894:ALA:HB1	4:P:14:GLN:NE2	1.75	0.99
1:H:699:THR:HG22	5:S:32:SER:HB2	1.02	0.99
1:B:737:LEU:CA	1:C:62:ARG:HH21	1.76	0.99
1:E:777:TYR:HE1	1:F:63:LEU:HD22	1.26	0.99
3:N:194:GLN:H	4:O:207:HIS:HB3	1.14	0.99
1:F:667:PRO:HB2	1:G:70:VAL:HG11	1.43	0.99
1:G:948:ASN:HD21	4:P:32:ASN:CA	1.75	0.99
1:C:893:TYR:OH	1:E:950:THR:HG23	1.62	0.99
1:J:432:THR:CG2	1:J:439:GLU:CD	2.30	0.99
1:B:249:LEU:HA	1:B:257:LEU:CD2	1.92	0.99
1:H:249:LEU:HA	1:H:257:LEU:CD2	1.92	0.99
1:G:281:PRO:HB3	1:H:438:TRP:HZ3	1.28	0.99
1:C:249:LEU:HA	1:C:257:LEU:CD2	1.92	0.99
1:E:633:LEU:HD23	1:E:638:ASN:HD21	1.24	0.99
1:G:556:PRO:CG	5:T:52:VAL:HG22	1.92	0.99
1:K:897:ALA:CB	4:O:10:MET:HE2	1.92	0.99
5:Q:111:THR:CG2	5:T:110:LEU:HD11	1.92	0.99
1:H:444:GLU:HA	1:H:445:PHE:CB	1.87	0.99
1:H:737:LEU:HA	1:I:62:ARG:HH21	1.25	0.99
1:K:891:LEU:HD23	1:L:2:THR:HG22	1.41	0.99
1:B:260:GLN:O	1:B:261:VAL:CG2	2.10	0.99
1:G:432:THR:CG2	1:G:439:GLU:CD	2.30	0.99
1:H:432:THR:CG2	1:H:439:GLU:CD	2.30	0.99
1:F:257:LEU:CB	1:F:258:GLU:CA	2.30	0.99
1:L:249:LEU:HA	1:L:257:LEU:CD2	1.92	0.99
1:C:948:ASN:N	1:K:344:MET:HE2	1.78	0.99
1:J:249:LEU:HA	1:J:257:LEU:CD2	1.92	0.99
1:A:6:MET:HB3	1:A:7:PRO:HD3	1.42	0.99
1:I:260:GLN:O	1:I:261:VAL:CG2	2.10	0.99
1:D:249:LEU:CA	1:D:257:LEU:HD21	1.93	0.99
1:J:62:ARG:HH21	1:L:737:LEU:HA	1.27	0.99
1:H:685:LYS:HG2	5:S:27:GLN:HE22	0.83	0.99
1:C:936:GLU:OE2	4:O:27:TYR:HD1	1.45	0.99
1:G:62:ARG:HH21	1:I:737:LEU:HA	1.28	0.99
1:F:948:ASN:CA	1:F:949:ALA:CB	2.30	0.99
1:F:260:GLN:O	1:F:261:VAL:CG2	2.10	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:463:LEU:HD21	1:K:463:LEU:HD21	1.41	0.99
1:F:400:ILE:HD11	1:F:476:ILE:HD13	1.39	0.99
1:A:249:LEU:HA	1:A:257:LEU:CD2	1.91	0.98
1:A:260:GLN:O	1:A:261:VAL:CG2	2.10	0.98
1:K:260:GLN:O	1:K:261:VAL:CG2	2.10	0.98
1:A:444:GLU:HA	1:A:445:PHE:CB	1.87	0.98
1:L:11:TYR:HE1	4:O:43:ARG:HD3	0.85	0.98
1:E:260:GLN:O	1:E:261:VAL:CG2	2.10	0.98
1:D:249:LEU:HA	1:D:257:LEU:CD2	1.92	0.98
1:K:249:LEU:CA	1:K:257:LEU:HD21	1.93	0.98
1:G:63:LEU:CD2	1:I:777:TYR:CE1	2.46	0.98
1:L:751:GLU:CD	5:Q:52:VAL:CG1	2.31	0.98
1:L:861:LYS:HE2	5:Q:50:GLU:OE1	1.62	0.98
1:K:249:LEU:HA	1:K:257:LEU:CD2	1.92	0.98
1:G:835:MET:HA	1:I:412:TYR:OH	1.63	0.98
1:J:654:PRO:HG3	5:Q:84:PRO:CG	1.93	0.98
1:C:341:THR:CB	1:K:693:GLY:H	1.75	0.98
1:F:59:ARG:CA	1:K:60:SER:H	1.75	0.98
1:F:774:ASN:HD21	1:F:880:SER:H	1.12	0.98
4:O:201:PHE:CE2	4:O:209:PRO:HG2	1.98	0.98
1:H:260:GLN:O	1:H:261:VAL:CG2	2.10	0.98
1:D:249:LEU:HA	1:D:257:LEU:HD21	0.98	0.98
1:A:777:TYR:HE1	1:B:63:LEU:CD2	1.75	0.98
1:G:948:ASN:C	4:P:30:ARG:HH11	1.67	0.98
1:F:249:LEU:CA	1:F:257:LEU:HD21	1.93	0.98
1:G:445:PHE:HA	1:I:165:THR:O	1.64	0.98
1:H:601:ARG:HB2	5:S:32:SER:OG	1.64	0.98
1:A:774:ASN:HD21	1:A:880:SER:H	1.12	0.98
1:A:88:GLY:HA3	1:E:353:GLN:CD	1.83	0.98
1:C:249:LEU:CA	1:C:257:LEU:HD21	1.93	0.98
1:C:737:LEU:CD2	1:C:753:TYR:CE2	2.47	0.98
2:M:48:PRO:HB3	3:N:106:ASN:H	0.84	0.98
1:F:75:THR:CG2	1:G:697:TYR:HE2	1.76	0.98
1:I:774:ASN:HD21	1:I:880:SER:H	1.11	0.98
1:L:432:THR:CG2	1:L:439:GLU:CG	2.39	0.98
1:D:432:THR:CG2	1:D:439:GLU:CG	2.41	0.98
1:A:68:ILE:CB	1:E:73:GLU:CG	2.38	0.98
3:N:198:THR:OG1	4:O:199:ASN:HB2	1.62	0.98
1:L:8:GLN:CD	4:O:31:ILE:HD12	1.82	0.98
1:B:249:LEU:HA	1:B:257:LEU:HD21	0.98	0.98
1:H:432:THR:CG2	1:H:439:GLU:CG	2.38	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:249:LEU:HA	1:F:257:LEU:HD21	0.98	0.98
1:L:249:LEU:CA	1:L:257:LEU:HD21	1.93	0.98
1:I:132:CYS:SG	1:I:229:MET:HE2	2.04	0.98
1:A:25:PRO:HD2	4:O:202:SER:CA	1.93	0.98
1:I:949:ALA:CB	1:I:950:THR:CB	2.30	0.98
1:D:5:MET:SD	1:F:894:ALA:CB	2.52	0.98
1:E:950:THR:O	1:E:950:THR:HG22	1.61	0.98
1:L:719:LYS:HD2	5:Q:22:TRP:CG	1.97	0.98
1:J:669:ARG:HH21	1:J:950:THR:HG23	1.28	0.98
1:J:889:GLN:CD	1:K:52:THR:HG21	1.83	0.98
1:D:463:LEU:HD21	1:F:463:LEU:HD21	1.44	0.98
1:D:835:MET:HA	1:F:412:TYR:OH	1.63	0.98
1:A:14:ILE:HD11	1:C:924:VAL:CG2	1.93	0.97
1:E:894:ALA:HB1	1:F:5:MET:CE	1.93	0.97
1:J:14:ILE:CD1	1:L:924:VAL:HG21	1.93	0.97
1:G:129:PRO:HD2	1:H:417:GLY:O	1.63	0.97
1:F:608:LYS:HD3	5:T:98:ASP:CA	1.94	0.97
1:B:249:LEU:CA	1:B:257:LEU:HD21	1.93	0.97
1:F:59:ARG:CZ	1:J:733:ASN:HD21	1.76	0.97
1:J:5:MET:SD	1:L:894:ALA:CB	2.52	0.97
1:E:412:TYR:OH	1:F:835:MET:HA	1.64	0.97
1:E:948:ASN:HB3	1:E:949:ALA:HB2	0.97	0.97
1:H:281:PRO:CG	1:I:438:TRP:CZ3	2.46	0.97
1:J:249:LEU:CA	1:J:257:LEU:HD21	1.93	0.97
1:K:257:LEU:CB	1:K:258:GLU:CA	2.30	0.97
1:H:218:ALA:HB3	1:H:283:VAL:HG22	1.40	0.97
1:H:5:MET:SD	1:H:8:GLN:CB	2.51	0.97
1:G:249:LEU:CA	1:G:257:LEU:HD21	1.93	0.97
1:I:249:LEU:CA	1:I:257:LEU:HD21	1.93	0.97
1:I:719:LYS:CD	5:T:22:TRP:CD2	2.47	0.97
1:H:601:ARG:NH1	1:H:601:ARG:HG3	1.60	0.97
1:H:521:ALA:HB2	1:I:551:ASN:HB3	1.44	0.97
3:N:299:TYR:O	3:N:300:LEU:CD2	2.12	0.97
1:E:432:THR:CG2	1:E:439:GLU:CG	2.40	0.97
1:K:638:ASN:HD21	1:L:24:SER:HB3	0.83	0.97
1:G:463:LEU:HD21	1:H:463:LEU:HD21	1.47	0.97
1:L:3:PRO:HB2	4:O:54:ILE:HG21	1.01	0.97
1:H:249:LEU:HA	1:H:257:LEU:HD21	0.98	0.97
1:C:739:PRO:HB2	1:E:341:THR:HG22	1.44	0.97
1:C:635:ASN:HB3	1:C:638:ASN:ND2	1.78	0.97
1:E:249:LEU:CA	1:E:257:LEU:HD21	1.93	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:248:ILE:HG22	1:J:249:LEU:H	1.29	0.97
1:D:463:LEU:HD21	1:E:463:LEU:HD21	1.44	0.97
5:R:117:VAL:HG13	5:S:114:LEU:HD21	1.47	0.97
1:L:861:LYS:HE2	5:Q:50:GLU:CD	1.85	0.97
1:K:924:VAL:CG2	1:L:14:ILE:HD11	1.93	0.97
1:C:433:GLY:HA3	1:C:437:GLY:HA3	1.47	0.97
1:C:948:ASN:HD22	1:C:948:ASN:C	1.68	0.97
1:F:59:ARG:HA	1:K:60:SER:CB	1.95	0.97
1:C:670:ASN:HB3	1:K:353:GLN:HB3	1.44	0.97
1:L:892:LEU:HB2	4:P:103:ASN:HB3	1.43	0.97
1:L:892:LEU:HD22	4:P:103:ASN:HA	1.45	0.97
1:K:897:ALA:HB2	4:O:10:MET:HB3	1.45	0.97
1:F:608:LYS:CG	5:T:98:ASP:CB	2.41	0.97
1:C:848:PRO:O	1:C:855:VAL:HG13	1.65	0.97
1:E:249:LEU:HA	1:E:257:LEU:HD21	0.98	0.97
1:L:249:LEU:HA	1:L:257:LEU:HD21	0.98	0.97
1:I:249:LEU:HA	1:I:257:LEU:HD21	0.98	0.97
1:J:249:LEU:HA	1:J:257:LEU:HD21	0.98	0.97
1:K:727:SER:CB	4:O:15:PRO:CB	2.43	0.97
3:N:271:ASP:CB	4:O:61:ILE:HG21	1.94	0.97
1:I:848:PRO:O	1:I:855:VAL:HG13	1.65	0.97
1:G:774:ASN:HD21	1:G:880:SER:H	1.12	0.97
1:H:72:ARG:HH22	1:J:71:ASP:CB	1.78	0.96
1:J:59:ARG:HB2	4:P:108:LEU:HD13	1.47	0.96
1:G:949:ALA:N	4:P:30:ARG:HH11	1.62	0.96
1:G:433:GLY:HA3	1:G:437:GLY:HA3	1.46	0.96
1:D:248:ILE:HG22	1:D:249:LEU:H	1.29	0.96
1:K:249:LEU:HA	1:K:257:LEU:HD21	0.98	0.96
1:C:737:LEU:CD1	1:C:753:TYR:HE2	1.78	0.96
1:D:894:ALA:CB	1:E:5:MET:SD	2.52	0.96
1:A:187:VAL:HG12	1:A:192:PRO:HA	0.97	0.96
1:L:187:VAL:HG12	1:L:192:PRO:HA	0.97	0.96
1:G:187:VAL:HG12	1:G:192:PRO:HA	0.97	0.96
1:B:412:TYR:OH	1:C:835:MET:HA	1.64	0.96
1:A:68:ILE:HG12	1:E:73:GLU:HG2	1.45	0.96
1:H:463:LEU:HD21	1:I:463:LEU:HD21	1.43	0.96
1:L:848:PRO:O	1:L:855:VAL:HG13	1.65	0.96
1:D:187:VAL:HG12	1:D:192:PRO:HA	0.97	0.96
4:O:7:THR:CB	4:O:25:GLN:HE21	1.78	0.96
1:G:948:ASN:ND2	4:P:32:ASN:CA	2.28	0.96
1:H:4:SER:CA	4:P:54:ILE:CD1	2.42	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:728:VAL:CB	1:E:948:ASN:H	1.77	0.96
1:A:445:PHE:HA	1:C:165:THR:O	1.64	0.96
1:D:924:VAL:CG2	1:E:14:ILE:HD11	1.95	0.96
1:F:187:VAL:HG12	1:F:192:PRO:HA	0.97	0.96
1:K:670:ASN:HB2	4:O:10:MET:SD	2.05	0.96
1:L:5:MET:CB	4:O:51:ARG:HD2	1.96	0.96
1:F:931:HIS:NE2	4:P:24:ALA:CB	2.25	0.96
1:J:433:GLY:HA3	1:J:437:GLY:HA3	1.48	0.96
1:A:249:LEU:HA	1:A:257:LEU:HD21	0.98	0.96
1:G:249:LEU:HA	1:G:257:LEU:HD21	0.98	0.96
3:N:27:TRP:HZ3	3:N:31:MET:SD	1.87	0.96
1:I:719:LYS:HD2	5:T:22:TRP:CE3	1.99	0.96
1:J:777:TYR:CE1	1:K:63:LEU:HD22	2.00	0.96
1:E:521:ALA:HB2	1:F:551:ASN:HB3	1.43	0.96
1:G:891:LEU:O	1:G:895:ASN:HB2	1.64	0.96
1:G:432:THR:CG2	1:G:439:GLU:CG	2.40	0.96
1:H:281:PRO:HD3	1:I:438:TRP:CZ3	2.00	0.96
1:C:132:CYS:SG	1:C:229:MET:HE2	2.05	0.96
1:G:848:PRO:O	1:G:855:VAL:HG13	1.65	0.96
1:E:774:ASN:HD21	1:E:880:SER:H	1.11	0.96
4:P:10:MET:SD	4:P:26:ASP:HA	2.04	0.96
1:D:430:PRO:CG	1:F:180:LYS:CE	2.43	0.96
1:K:774:ASN:HD21	1:K:880:SER:H	1.12	0.96
1:A:417:GLY:O	1:C:129:PRO:HD2	1.64	0.96
1:A:88:GLY:CA	1:E:353:GLN:NE2	2.27	0.96
1:B:433:GLY:HA3	1:B:437:GLY:HA3	1.48	0.96
1:C:341:THR:HB	1:K:693:GLY:HA3	0.96	0.96
1:A:246:GLN:HE21	1:C:844:ASN:HB3	1.20	0.96
1:H:848:PRO:O	1:H:855:VAL:HG13	1.65	0.96
1:B:737:LEU:HA	1:C:62:ARG:NH2	1.80	0.96
1:J:635:ASN:CB	4:P:173:THR:HG23	1.96	0.96
1:J:637:THR:HG21	4:P:173:THR:O	1.63	0.96
1:H:11:TYR:HE1	4:P:43:ARG:CD	1.78	0.96
4:P:55:LEU:HD21	4:P:194:PRO:HB2	1.45	0.96
1:L:3:PRO:HB3	3:N:298:ASN:ND2	1.81	0.96
1:G:936:GLU:CD	4:P:37:GLY:HA3	1.85	0.96
1:J:59:ARG:CB	4:P:108:LEU:HD11	1.95	0.96
4:P:93:ARG:HH21	4:P:93:ARG:HG2	1.29	0.96
3:N:93:LEU:HD13	3:N:93:LEU:O	1.65	0.96
1:J:445:PHE:HA	1:L:165:THR:O	1.66	0.96
1:B:521:ALA:HB2	1:C:551:ASN:HB3	1.42	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:281:PRO:CG	1:F:438:TRP:CZ3	2.49	0.96
1:C:341:THR:HB	1:K:693:GLY:N	1.80	0.96
1:D:229:MET:HE1	1:D:314:MET:CG	1.95	0.96
1:L:257:LEU:CB	1:L:258:GLU:CA	2.30	0.95
1:J:891:LEU:HD23	4:P:72:ARG:NH1	1.81	0.95
1:H:894:ALA:HB1	1:I:5:MET:CE	1.94	0.95
1:B:187:VAL:HG12	1:B:192:PRO:HA	0.97	0.95
1:F:70:VAL:O	5:Q:90:ALA:HB1	1.66	0.95
1:J:280:THR:HA	1:K:438:TRP:CZ3	2.00	0.95
1:G:940:LEU:CD1	4:P:31:ILE:HG12	1.96	0.95
1:G:874:PHE:HZ	1:G:893:TYR:CE1	1.83	0.95
1:D:433:GLY:HA3	1:D:437:GLY:HA3	1.48	0.95
1:J:777:TYR:CE1	1:K:63:LEU:CD2	2.49	0.95
1:I:187:VAL:HG12	1:I:192:PRO:HA	0.97	0.95
1:J:811:LYS:HD3	5:S:126:GLN:HE22	1.30	0.95
2:M:44:ARG:HE	3:N:65:ARG:HD2	1.32	0.95
1:D:438:TRP:HH2	1:F:281:PRO:HG3	1.29	0.95
1:B:941:ARG:HH12	2:M:108:THR:CG2	1.77	0.95
1:D:63:LEU:CD2	1:F:777:TYR:HE1	1.79	0.95
1:J:554:TYR:CE1	5:Q:57:LEU:HD13	2.00	0.95
1:C:774:ASN:HD21	1:C:880:SER:H	1.12	0.95
1:H:4:SER:HB3	4:P:55:LEU:HD13	1.45	0.95
1:F:341:THR:CB	1:G:693:GLY:H	1.79	0.95
1:K:248:ILE:HG22	1:K:249:LEU:H	1.29	0.95
1:E:844:ASN:HB3	1:F:246:GLN:HE21	0.79	0.95
1:H:777:TYR:CE1	1:I:63:LEU:CD2	2.49	0.95
1:E:848:PRO:O	1:E:855:VAL:HG13	1.65	0.95
1:K:941:ARG:O	1:K:945:SER:HA	1.66	0.95
1:F:432:THR:CG2	1:F:439:GLU:CG	2.39	0.95
1:L:859:THR:HB	5:Q:52:VAL:CG2	1.95	0.95
1:F:90:ASN:ND2	4:P:222:SER:HB3	1.79	0.95
1:E:22:TYR:CE1	1:E:23:LEU:HD23	2.02	0.95
1:H:229:MET:HE1	1:H:314:MET:CG	1.96	0.95
1:F:848:PRO:O	1:F:855:VAL:HG13	1.65	0.95
1:K:777:TYR:HE1	1:L:63:LEU:HD22	1.28	0.95
5:S:49:TYR:HD1	5:S:49:TYR:O	1.49	0.95
1:H:267:SER:O	1:I:425:LEU:HD22	1.66	0.95
1:F:608:LYS:HD3	5:T:98:ASP:C	1.87	0.95
1:F:636:ASP:N	4:P:25:GLN:HE22	1.65	0.95
1:G:884:LEU:HD23	1:G:922:PHE:CZ	2.00	0.95
1:L:433:GLY:HA3	1:L:437:GLY:HA3	1.46	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:737:LEU:HD13	1:C:753:TYR:HE2	1.23	0.95
1:J:63:LEU:HD22	1:L:777:TYR:CE1	2.01	0.95
1:K:848:PRO:O	1:K:855:VAL:HG13	1.65	0.95
1:A:25:PRO:HD2	4:O:201:PHE:O	1.67	0.95
1:F:351:ALA:CB	1:G:667:PRO:CG	2.31	0.95
1:G:884:LEU:HD11	1:H:14:ILE:O	1.67	0.95
4:P:44:VAL:O	4:P:47:ILE:HG13	1.67	0.95
1:E:949:ALA:H	1:E:950:THR:CA	1.80	0.95
1:L:22:TYR:CE1	1:L:23:LEU:HD23	2.02	0.95
1:D:777:TYR:CE1	1:E:63:LEU:HD22	2.02	0.95
1:K:874:PHE:HZ	1:K:893:TYR:CE1	1.85	0.95
1:D:22:TYR:CE1	1:D:23:LEU:HD23	2.02	0.95
1:B:945:SER:HA	1:B:946:ALA:HB3	0.96	0.95
1:K:727:SER:HB3	4:O:15:PRO:HB3	1.47	0.95
3:N:198:THR:HB	4:O:199:ASN:CG	1.86	0.95
1:L:719:LYS:CD	5:Q:22:TRP:CE2	2.49	0.95
2:M:39:PRO:HB3	3:N:27:TRP:CG	2.02	0.95
1:F:341:THR:CB	1:G:693:GLY:HA3	1.96	0.95
1:D:719:LYS:CD	5:R:22:TRP:CD2	2.50	0.95
1:I:444:GLU:CA	1:I:445:PHE:HB2	1.97	0.95
1:J:187:VAL:HG12	1:J:192:PRO:HA	0.97	0.95
1:K:670:ASN:HA	4:O:10:MET:CE	1.96	0.94
1:B:248:ILE:CG2	1:B:250:VAL:HG12	1.97	0.94
1:H:248:ILE:CG2	1:H:250:VAL:HG12	1.97	0.94
1:J:248:ILE:CG2	1:J:250:VAL:HG12	1.97	0.94
1:K:132:CYS:SG	1:K:229:MET:HE2	2.05	0.94
1:F:187:VAL:HB	1:F:191:THR:O	1.67	0.94
1:F:353:GLN:HG3	1:G:651:MET:HE3	1.49	0.94
1:K:432:THR:CG2	1:K:439:GLU:CG	2.38	0.94
1:C:249:LEU:HA	1:C:257:LEU:HD21	0.98	0.94
1:B:360:LEU:HD22	2:M:108:THR:CA	1.95	0.94
1:A:463:LEU:CD2	1:C:463:LEU:HD11	1.96	0.94
1:D:777:TYR:CE1	1:E:63:LEU:CD2	2.49	0.94
1:I:187:VAL:HB	1:I:191:THR:O	1.67	0.94
2:M:82:LEU:HD13	2:M:92:LEU:HD13	1.46	0.94
1:A:11:TYR:OH	1:K:948:ASN:HA	1.65	0.94
1:A:88:GLY:H	1:E:353:GLN:HE21	1.07	0.94
1:F:670:ASN:HB3	1:G:353:GLN:HB3	0.97	0.94
1:G:669:ARG:O	1:G:897:ALA:HB1	1.65	0.94
1:F:248:ILE:CG2	1:F:250:VAL:HG12	1.98	0.94
1:D:737:LEU:CA	1:E:62:ARG:HH21	1.80	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:59:ARG:CD	1:E:354:LEU:CD2	2.44	0.94
1:J:246:GLN:NE2	1:J:290:VAL:HG11	1.82	0.94
1:I:948:ASN:HB2	1:I:949:ALA:HA	1.46	0.94
1:F:22:TYR:CE1	1:F:23:LEU:HD23	2.02	0.94
1:B:947:GLY:O	1:B:948:ASN:HB3	1.64	0.94
1:C:670:ASN:CB	1:K:353:GLN:CB	2.41	0.94
1:A:848:PRO:O	1:A:855:VAL:HG13	1.65	0.94
1:J:187:VAL:HB	1:J:191:THR:O	1.68	0.94
1:K:187:VAL:HG12	1:K:192:PRO:HA	0.97	0.94
1:G:412:TYR:OH	1:H:835:MET:HA	1.65	0.94
1:J:728:VAL:CG2	4:P:226:TYR:CG	2.51	0.94
3:N:197:GLN:HA	4:O:197:TYR:O	1.66	0.94
1:I:949:ALA:N	1:I:950:THR:CB	2.30	0.94
1:L:3:PRO:HB2	4:O:54:ILE:HG22	1.46	0.94
1:J:103:ARG:HD2	1:L:752:GLY:HA2	1.48	0.94
1:J:874:PHE:CZ	1:J:893:TYR:CZ	2.56	0.94
1:K:444:GLU:CA	1:K:445:PHE:HB2	1.97	0.94
1:H:444:GLU:CA	1:H:445:PHE:HB2	1.97	0.94
1:L:187:VAL:HB	1:L:191:THR:O	1.67	0.94
1:B:848:PRO:O	1:B:855:VAL:HG13	1.65	0.94
1:L:229:MET:HE1	1:L:314:MET:CG	1.95	0.94
1:G:22:TYR:CE1	1:G:23:LEU:HD23	2.02	0.94
1:E:444:GLU:CA	1:E:445:PHE:HB2	1.97	0.94
1:A:24:SER:HB3	1:C:638:ASN:OD1	1.66	0.94
1:D:7:PRO:HB3	4:P:41:ILE:CD1	1.97	0.94
1:H:4:SER:HA	4:P:54:ILE:HD11	1.49	0.94
1:A:248:ILE:HG22	1:A:249:LEU:H	1.29	0.94
2:M:39:PRO:HB3	3:N:27:TRP:CD2	2.02	0.94
1:G:187:VAL:HB	1:G:191:THR:O	1.67	0.94
1:I:949:ALA:H	1:I:950:THR:CA	1.79	0.94
1:G:948:ASN:HD21	4:P:32:ASN:HA	1.11	0.94
1:E:949:ALA:N	1:E:950:THR:CB	2.31	0.94
1:E:248:ILE:HG22	1:E:249:LEU:H	1.29	0.94
1:B:432:THR:CG2	1:B:439:GLU:CG	2.39	0.94
1:L:248:ILE:CG2	1:L:250:VAL:HG12	1.98	0.94
1:F:60:SER:N	1:K:60:SER:HB2	1.81	0.94
1:K:5:MET:O	1:K:6:MET:HG2	1.67	0.94
1:E:638:ASN:ND2	1:F:27:LEU:CD1	2.30	0.94
1:F:444:GLU:CA	1:F:445:PHE:HB2	1.97	0.94
1:I:444:GLU:HB3	1:I:445:PHE:C	1.88	0.94
1:L:948:ASN:CB	1:L:949:ALA:HA	1.90	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:444:GLU:CA	1:C:445:PHE:HB2	1.97	0.94
1:D:444:GLU:CA	1:D:445:PHE:HB2	1.97	0.94
1:H:187:VAL:HG12	1:H:192:PRO:HA	0.97	0.94
1:E:805:VAL:CG1	1:E:855:VAL:HG21	1.98	0.94
1:J:63:LEU:CD2	1:L:777:TYR:CE1	2.49	0.94
1:J:425:LEU:HD22	1:L:267:SER:O	1.67	0.94
1:C:246:GLN:NE2	1:C:290:VAL:HG11	1.83	0.94
1:H:246:GLN:NE2	1:H:290:VAL:HG11	1.83	0.94
1:B:246:GLN:NE2	1:B:290:VAL:HG11	1.83	0.94
1:H:774:ASN:HD21	1:H:880:SER:H	1.12	0.94
1:A:248:ILE:CG2	1:A:250:VAL:HG12	1.97	0.94
1:D:248:ILE:CG2	1:D:250:VAL:HG12	1.98	0.94
1:J:22:TYR:CE1	1:J:23:LEU:HD23	2.02	0.94
1:E:444:GLU:HB3	1:E:445:PHE:C	1.89	0.94
1:E:187:VAL:HG12	1:E:192:PRO:HA	0.97	0.94
1:A:187:VAL:HB	1:A:191:THR:O	1.67	0.94
1:D:187:VAL:HB	1:D:191:THR:O	1.67	0.94
1:H:737:LEU:CA	1:I:62:ARG:HH21	1.81	0.94
1:D:5:MET:CE	1:F:894:ALA:HB1	1.97	0.94
1:A:180:LYS:CE	1:B:430:PRO:CG	2.45	0.94
1:H:433:GLY:HA3	1:H:437:GLY:HA3	1.46	0.94
1:C:432:THR:CG2	1:C:439:GLU:CG	2.42	0.94
1:B:444:GLU:CA	1:B:445:PHE:HB2	1.97	0.94
1:J:848:PRO:O	1:J:855:VAL:HG13	1.65	0.94
1:D:848:PRO:O	1:D:855:VAL:HG13	1.65	0.94
1:A:412:TYR:OH	1:B:835:MET:HA	1.66	0.94
1:E:433:GLY:HA3	1:E:437:GLY:HA3	1.49	0.93
1:F:59:ARG:HA	1:K:60:SER:CA	1.97	0.93
1:A:463:LEU:HD21	1:B:463:LEU:HD21	1.49	0.93
3:N:93:LEU:CD1	3:N:93:LEU:C	2.37	0.93
1:A:63:LEU:CD2	1:C:777:TYR:CE1	2.52	0.93
1:H:805:VAL:CG1	1:H:855:VAL:HG21	1.98	0.93
1:G:62:ARG:HH21	1:I:737:LEU:CA	1.81	0.93
1:A:22:TYR:CE1	1:A:23:LEU:HD23	2.02	0.93
1:G:670:ASN:HB3	4:P:28:SER:OG	1.68	0.93
1:I:432:THR:CG2	1:I:439:GLU:CG	2.39	0.93
1:F:59:ARG:C	1:K:60:SER:HB3	1.89	0.93
1:E:229:MET:HE1	1:E:314:MET:HG2	0.96	0.93
1:H:132:CYS:SG	1:H:229:MET:HE2	2.07	0.93
1:L:892:LEU:HB2	4:P:103:ASN:CB	1.97	0.93
2:M:48:PRO:CB	3:N:106:ASN:H	1.80	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:444:GLU:HB3	1:L:445:PHE:C	1.88	0.93
1:J:267:SER:O	1:K:425:LEU:HD22	1.67	0.93
1:A:25:PRO:CD	4:O:202:SER:CA	2.46	0.93
1:I:248:ILE:CG2	1:I:250:VAL:HG12	1.98	0.93
1:D:894:ALA:HB1	1:E:5:MET:CE	1.98	0.93
1:L:948:ASN:HB2	1:L:949:ALA:CA	1.97	0.93
1:E:187:VAL:HB	1:E:191:THR:O	1.67	0.93
1:C:187:VAL:HG12	1:C:192:PRO:HA	0.97	0.93
1:J:805:VAL:CG1	1:J:855:VAL:HG21	1.98	0.93
1:K:8:GLN:HB2	4:P:15:PRO:O	1.67	0.93
1:E:896:SER:HB3	1:K:932:ARG:HH21	1.31	0.93
1:J:892:LEU:CD2	4:P:224:ASP:HA	1.98	0.93
1:L:444:GLU:CA	1:L:445:PHE:HB2	1.97	0.93
1:L:774:ASN:HD21	1:L:880:SER:H	1.12	0.93
1:G:56:THR:HG21	1:I:876:SER:HB2	1.49	0.93
1:C:22:TYR:CE1	1:C:23:LEU:HD23	2.02	0.93
1:K:444:GLU:HB3	1:K:445:PHE:C	1.88	0.93
1:C:444:GLU:HB3	1:C:445:PHE:C	1.88	0.93
1:J:635:ASN:HB3	4:P:173:THR:CG2	1.97	0.93
1:G:246:GLN:NE2	1:G:290:VAL:HG11	1.82	0.93
1:E:362:ASP:HB3	1:E:941:ARG:HH22	1.33	0.93
1:G:936:GLU:HB3	4:P:37:GLY:H	1.32	0.93
1:C:248:ILE:CG2	1:C:250:VAL:HG12	1.98	0.93
1:D:638:ASN:ND2	1:E:24:SER:CB	2.31	0.93
1:B:187:VAL:HB	1:B:191:THR:O	1.67	0.93
1:B:805:VAL:CG1	1:B:855:VAL:HG21	1.98	0.93
1:I:246:GLN:NE2	1:I:290:VAL:HG11	1.83	0.93
1:J:660:THR:CB	5:R:130:ALA:HB2	1.95	0.93
1:F:669:ARG:HB3	1:G:82:ARG:HH22	1.33	0.93
1:E:248:ILE:CG2	1:E:250:VAL:HG12	1.98	0.93
1:F:248:ILE:HG22	1:F:249:LEU:H	1.29	0.93
1:G:248:ILE:CG2	1:G:250:VAL:HG12	1.98	0.93
1:K:248:ILE:CG2	1:K:250:VAL:HG12	1.98	0.93
1:B:941:ARG:CZ	2:M:108:THR:HG21	1.98	0.93
1:L:132:CYS:SG	1:L:229:MET:HE2	2.09	0.93
1:B:22:TYR:CE1	1:B:23:LEU:HD23	2.02	0.93
1:H:777:TYR:CE1	1:I:63:LEU:HD22	2.04	0.93
1:C:187:VAL:HB	1:C:191:THR:O	1.67	0.93
1:G:805:VAL:HG12	1:G:855:VAL:CG2	1.99	0.93
1:E:777:TYR:HE1	1:F:63:LEU:CD2	1.81	0.93
1:G:62:ARG:NH2	1:I:737:LEU:HA	1.84	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:361:GLN:OE1	5:S:21:PRO:HG2	1.68	0.93
1:A:68:ILE:HG12	1:E:72:ARG:C	1.89	0.93
1:D:246:GLN:NE2	1:D:290:VAL:HG11	1.82	0.93
1:G:725:ASP:OD2	1:G:898:HIS:HB3	1.67	0.93
1:H:248:ILE:HG22	1:H:249:LEU:H	1.29	0.93
1:I:433:GLY:HA3	1:I:437:GLY:HA3	1.48	0.93
1:J:5:MET:CE	1:L:894:ALA:HB1	1.99	0.93
1:H:924:VAL:CG2	1:I:14:ILE:HD11	1.99	0.93
1:H:187:VAL:HB	1:H:191:THR:O	1.67	0.93
1:K:805:VAL:CG1	1:K:855:VAL:HG21	1.98	0.93
1:J:246:GLN:HE21	1:J:290:VAL:HG11	1.34	0.93
1:L:719:LYS:HD2	5:Q:22:TRP:CE3	2.04	0.93
1:A:68:ILE:HG12	1:E:72:ARG:O	1.69	0.93
1:F:444:GLU:HB3	1:F:445:PHE:C	1.88	0.93
1:H:444:GLU:HB3	1:H:445:PHE:C	1.89	0.93
1:F:805:VAL:HG12	1:F:855:VAL:CG2	1.99	0.93
1:A:805:VAL:CG1	1:A:855:VAL:HG21	1.98	0.93
1:L:4:SER:HB2	4:O:55:LEU:HD13	1.49	0.92
1:J:444:GLU:HB3	1:J:445:PHE:C	1.88	0.92
1:A:805:VAL:HG12	1:A:855:VAL:CG2	1.99	0.92
1:I:805:VAL:HG12	1:I:855:VAL:CG2	1.99	0.92
1:K:187:VAL:HB	1:K:191:THR:O	1.67	0.92
1:A:432:THR:CG2	1:A:439:GLU:CG	2.42	0.92
1:J:251:LYS:HB3	1:J:252:GLN:HA	0.92	0.92
1:E:632:MET:CB	1:F:27:LEU:CD2	2.44	0.92
1:A:66:ARG:HD2	1:A:615:TYR:OH	1.69	0.92
1:G:727:SER:HB3	4:P:15:PRO:HB3	1.51	0.92
1:C:728:VAL:CG2	1:E:948:ASN:HB2	1.99	0.92
1:K:433:GLY:HA3	1:K:437:GLY:HA3	1.49	0.92
1:D:444:GLU:HB3	1:D:445:PHE:C	1.88	0.92
1:C:347:LEU:HD23	1:C:568:ILE:HG21	1.50	0.92
1:A:6:MET:CB	1:A:7:PRO:HD2	1.98	0.92
1:H:8:GLN:CG	4:P:31:ILE:HD11	2.00	0.92
1:H:281:PRO:HB3	1:I:438:TRP:HZ3	1.31	0.92
1:A:68:ILE:CG2	1:E:71:ASP:HB3	1.98	0.92
1:D:132:CYS:SG	1:D:229:MET:HE2	2.08	0.92
1:E:246:GLN:NE2	1:E:290:VAL:HG11	1.83	0.92
1:A:430:PRO:HG3	1:C:180:LYS:CE	2.00	0.92
1:B:251:LYS:HB3	1:B:252:GLN:HA	0.92	0.92
1:A:59:ARG:HD3	1:E:354:LEU:HD21	0.95	0.92
1:J:59:ARG:HA	4:P:108:LEU:CD1	1.99	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:63:LEU:HD22	1:C:777:TYR:CE1	2.03	0.92
1:J:554:TYR:HD1	5:Q:57:LEU:HD22	1.34	0.92
1:I:948:ASN:HD22	1:I:949:ALA:HB2	1.34	0.92
1:F:351:ALA:HB1	1:G:667:PRO:HG3	0.93	0.92
1:H:22:TYR:CE1	1:H:23:LEU:HD23	2.02	0.92
1:G:727:SER:CB	4:P:15:PRO:HB2	1.95	0.92
1:E:281:PRO:HB3	1:F:438:TRP:CZ3	2.05	0.92
1:G:938:VAL:CG2	4:P:40:MET:CE	2.43	0.92
1:K:22:TYR:CE1	1:K:23:LEU:HD23	2.02	0.92
1:C:670:ASN:HB2	1:K:353:GLN:CG	1.97	0.92
1:A:444:GLU:HB3	1:A:445:PHE:C	1.89	0.92
1:B:444:GLU:HB3	1:B:445:PHE:C	1.89	0.92
1:L:805:VAL:CG1	1:L:855:VAL:HG21	1.98	0.92
1:D:805:VAL:HG12	1:D:855:VAL:CG2	1.99	0.92
1:A:640:GLN:NE2	1:A:929:ARG:HH22	1.68	0.92
1:D:7:PRO:CB	4:P:41:ILE:HD13	1.99	0.92
1:K:671:TRP:HD1	1:K:898:HIS:HD1	1.16	0.92
1:J:638:ASN:HD21	1:K:24:SER:HB3	0.76	0.92
1:C:670:ASN:CG	1:K:353:GLN:HB3	1.90	0.92
1:F:427:LYS:CG	1:F:445:PHE:CD2	2.53	0.92
1:E:427:LYS:CG	1:E:445:PHE:CD2	2.53	0.92
1:C:246:GLN:HE21	1:C:290:VAL:HG11	1.35	0.92
1:G:640:GLN:NE2	1:G:929:ARG:HH22	1.68	0.92
1:J:654:PRO:HG2	5:Q:84:PRO:HG2	1.50	0.92
1:K:897:ALA:CA	4:O:10:MET:CE	2.47	0.92
1:J:69:PRO:HG3	1:J:83:PHE:HE2	1.27	0.92
1:B:360:LEU:CD1	2:M:108:THR:HB	2.00	0.92
1:G:444:GLU:HB3	1:G:445:PHE:C	1.89	0.92
1:C:427:LYS:CG	1:C:445:PHE:CD2	2.53	0.92
1:L:246:GLN:NE2	1:L:290:VAL:HG11	1.83	0.92
1:I:95:MET:SD	1:I:573:LEU:HD13	2.10	0.92
1:K:874:PHE:CZ	1:K:893:TYR:CZ	2.57	0.92
1:D:251:LYS:HB3	1:D:252:GLN:HA	0.92	0.92
1:K:66:ARG:HH12	1:K:68:ILE:HD11	1.31	0.92
1:A:463:LEU:HD11	1:B:463:LEU:CD2	2.00	0.92
1:D:805:VAL:CG1	1:D:855:VAL:HG21	1.98	0.92
3:N:300:LEU:HD23	3:N:300:LEU:O	1.69	0.92
1:J:728:VAL:CB	4:P:226:TYR:HB3	2.00	0.92
1:G:939:TYR:CB	4:P:32:ASN:HD21	1.83	0.92
1:C:251:LYS:HB3	1:C:252:GLN:HA	0.92	0.92
1:H:62:ARG:HE	1:J:354:LEU:HG	1.34	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:638:ASN:HD21	1:B:24:SER:HB3	1.35	0.92
1:K:427:LYS:CG	1:K:445:PHE:CD2	2.53	0.92
1:H:427:LYS:CG	1:H:445:PHE:CD2	2.53	0.92
1:A:427:LYS:CG	1:A:445:PHE:CD2	2.53	0.92
1:B:853:THR:HG22	1:C:293:GLU:OE1	1.70	0.92
1:A:551:ASN:HB3	1:C:521:ALA:HB2	1.52	0.92
1:K:95:MET:SD	1:K:573:LEU:HD13	2.10	0.92
1:E:949:ALA:HB3	1:E:950:THR:OG1	1.67	0.91
1:F:251:LYS:HB3	1:F:252:GLN:HA	0.92	0.91
1:J:257:LEU:CB	1:J:258:GLU:CA	2.30	0.91
1:K:68:ILE:CG2	1:K:69:PRO:HD2	2.00	0.91
1:J:444:GLU:CA	1:J:445:PHE:HB2	1.97	0.91
1:F:95:MET:SD	1:F:573:LEU:HD13	2.10	0.91
1:D:774:ASN:HD21	1:D:880:SER:H	1.12	0.91
1:G:95:MET:SD	1:G:573:LEU:HD13	2.10	0.91
1:F:640:GLN:NE2	1:F:929:ARG:HH22	1.68	0.91
1:G:427:LYS:CG	1:G:445:PHE:CD2	2.53	0.91
1:C:805:VAL:HG12	1:C:855:VAL:CG2	1.99	0.91
1:C:268:THR:OG1	1:C:282:LYS:HD2	1.70	0.91
1:F:59:ARG:HA	1:K:60:SER:H	1.04	0.91
1:G:805:VAL:CG1	1:G:855:VAL:HG21	1.98	0.91
1:H:246:GLN:HE21	1:H:290:VAL:HG11	1.35	0.91
1:L:95:MET:SD	1:L:573:LEU:HD13	2.10	0.91
1:A:88:GLY:HA3	1:E:353:GLN:HG2	0.93	0.91
1:J:438:TRP:CZ3	1:L:281:PRO:HD3	2.06	0.91
1:B:165:THR:O	1:C:445:PHE:HA	1.70	0.91
1:B:427:LYS:CG	1:B:445:PHE:CD2	2.53	0.91
1:L:427:LYS:CG	1:L:445:PHE:CD2	2.53	0.91
1:J:293:GLU:OE1	1:L:853:THR:HG22	1.71	0.91
1:L:805:VAL:HG12	1:L:855:VAL:CG2	1.99	0.91
1:E:246:GLN:HE21	1:E:290:VAL:HG11	1.35	0.91
1:B:774:ASN:HD21	1:B:880:SER:H	1.12	0.91
1:J:95:MET:SD	1:J:573:LEU:HD13	2.10	0.91
1:K:669:ARG:C	4:O:10:MET:HE1	1.90	0.91
1:A:88:GLY:HA3	1:E:353:GLN:NE2	1.84	0.91
1:F:433:GLY:HA3	1:F:437:GLY:HA3	1.47	0.91
1:E:463:LEU:HD11	1:F:463:LEU:CD2	2.00	0.91
1:E:805:VAL:HG12	1:E:855:VAL:CG2	1.99	0.91
1:H:654:PRO:O	5:S:16:THR:HG21	1.68	0.91
1:I:640:GLN:NE2	1:I:929:ARG:HH22	1.68	0.91
1:A:95:MET:SD	1:A:573:LEU:HD13	2.10	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:805:VAL:CG1	1:I:855:VAL:HG21	1.98	0.91
1:L:246:GLN:HE21	1:L:290:VAL:HG11	1.34	0.91
1:L:719:LYS:HD3	5:Q:22:TRP:CE2	2.05	0.91
1:G:251:LYS:HB3	1:G:252:GLN:HA	0.92	0.91
1:C:248:ILE:HG22	1:C:249:LEU:H	1.29	0.91
1:D:737:LEU:CB	1:D:753:TYR:HE2	1.84	0.91
1:G:859:THR:OG1	1:H:556:PRO:HD2	1.70	0.91
1:H:95:MET:SD	1:H:573:LEU:HD13	2.10	0.91
3:N:27:TRP:O	3:N:27:TRP:CE3	2.24	0.91
1:G:24:SER:HB3	1:I:638:ASN:HD21	0.75	0.91
1:B:463:LEU:HD11	1:C:463:LEU:CD2	2.01	0.91
1:I:908:PRO:CB	5:T:43:ASN:HD22	1.82	0.91
1:I:246:GLN:HE21	1:I:290:VAL:HG11	1.34	0.91
1:B:95:MET:SD	1:B:573:LEU:HD13	2.10	0.91
1:D:95:MET:SD	1:D:573:LEU:HD13	2.10	0.91
1:E:640:GLN:NE2	1:E:929:ARG:HH22	1.68	0.91
1:A:25:PRO:HD2	4:O:202:SER:HA	1.51	0.91
3:N:196:LEU:HA	4:O:197:TYR:HE2	0.75	0.91
1:H:11:TYR:CE1	4:P:43:ARG:CD	2.53	0.91
1:F:60:SER:CB	1:J:733:ASN:CA	2.47	0.91
1:G:463:LEU:HD11	1:H:463:LEU:CD2	2.01	0.91
1:I:427:LYS:CG	1:I:445:PHE:CD2	2.53	0.91
1:D:853:THR:HG22	1:E:293:GLU:OE1	1.69	0.91
2:M:44:ARG:HE	3:N:65:ARG:CD	1.84	0.91
1:K:737:LEU:CB	1:K:753:TYR:HE2	1.84	0.91
1:J:839:GLN:HE21	1:K:131:PRO:HG2	1.35	0.91
1:E:95:MET:SD	1:E:573:LEU:HD13	2.10	0.91
1:C:640:GLN:NE2	1:C:929:ARG:HH22	1.68	0.91
1:C:95:MET:SD	1:C:573:LEU:HD13	2.10	0.91
1:J:737:LEU:CB	1:J:753:TYR:HE2	1.84	0.91
1:H:62:ARG:CD	1:J:354:LEU:CD2	2.47	0.91
1:J:844:ASN:HB3	1:K:246:GLN:HE21	0.76	0.91
1:K:251:LYS:HB3	1:K:252:GLN:HA	0.92	0.91
1:C:805:VAL:CG1	1:C:855:VAL:HG21	1.98	0.91
1:A:835:MET:HA	1:C:412:TYR:OH	1.70	0.91
3:N:194:GLN:N	4:O:207:HIS:CB	2.27	0.90
1:J:874:PHE:HZ	1:J:893:TYR:CE1	1.89	0.90
1:J:734:ASP:O	1:K:62:ARG:HG2	1.70	0.90
1:D:737:LEU:HA	1:E:62:ARG:NH2	1.85	0.90
1:H:805:VAL:HG12	1:H:855:VAL:CG2	1.99	0.90
1:H:362:ASP:HB3	1:H:941:ARG:HH22	1.37	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:640:GLN:NE2	1:K:929:ARG:HH22	1.68	0.90
1:F:351:ALA:HB1	1:G:667:PRO:HD3	1.53	0.90
1:G:281:PRO:HB3	1:H:438:TRP:CZ3	2.07	0.90
1:C:739:PRO:HD2	1:E:341:THR:CB	2.00	0.90
1:K:229:MET:HE1	1:K:314:MET:CG	1.98	0.90
1:D:427:LYS:CG	1:D:445:PHE:CD2	2.53	0.90
4:O:7:THR:HB	4:O:25:GLN:CG	2.00	0.90
1:A:251:LYS:HB3	1:A:252:GLN:HA	0.92	0.90
1:K:939:TYR:HB2	4:O:32:ASN:HD21	1.10	0.90
1:E:132:CYS:SG	1:E:229:MET:HE3	2.08	0.90
1:I:22:TYR:CE1	1:I:23:LEU:HD23	2.02	0.90
1:D:246:GLN:HE21	1:D:290:VAL:HG11	1.34	0.90
1:I:362:ASP:HB3	1:I:941:ARG:HH22	1.36	0.90
1:L:737:LEU:CB	1:L:753:TYR:HE2	1.84	0.90
1:B:737:LEU:CB	1:B:753:TYR:HE2	1.84	0.90
1:H:737:LEU:CB	1:H:753:TYR:HE2	1.84	0.90
1:L:640:GLN:NE2	1:L:929:ARG:HH22	1.68	0.90
1:K:874:PHE:HZ	1:K:893:TYR:CZ	1.90	0.90
1:B:248:ILE:HG22	1:B:249:LEU:H	1.29	0.90
1:L:248:ILE:HG22	1:L:249:LEU:H	1.29	0.90
1:F:341:THR:HB	1:G:693:GLY:H	1.05	0.90
1:D:24:SER:CB	4:P:201:PHE:HB3	2.00	0.90
1:G:463:LEU:CD2	1:I:463:LEU:HD11	2.01	0.90
3:N:271:ASP:CB	4:O:61:ILE:CG2	2.49	0.90
2:M:154:THR:O	2:M:155:LYS:HB2	1.68	0.90
1:I:737:LEU:CB	1:I:753:TYR:HE2	1.84	0.90
1:J:635:ASN:CB	4:P:173:THR:CG2	2.49	0.90
1:A:737:LEU:CB	1:A:753:TYR:HE2	1.84	0.90
1:A:362:ASP:HB3	1:A:941:ARG:HH22	1.37	0.90
1:H:640:GLN:NE2	1:H:929:ARG:HH22	1.68	0.90
1:J:752:GLY:HA2	1:K:103:ARG:HD2	1.53	0.90
1:F:362:ASP:HB3	1:F:941:ARG:HH22	1.37	0.90
1:G:874:PHE:CZ	1:G:893:TYR:CZ	2.59	0.90
1:D:178:ILE:HD13	1:D:284:VAL:HG23	1.54	0.90
1:J:942:THR:HB	4:P:16:GLN:NE2	1.87	0.90
1:A:68:ILE:HD13	1:E:73:GLU:HB3	0.93	0.90
1:B:246:GLN:HE21	1:B:290:VAL:HG11	1.35	0.90
1:F:737:LEU:CB	1:F:753:TYR:HE2	1.84	0.90
1:G:891:LEU:HB2	4:P:189:ILE:HG21	1.52	0.90
1:C:3:PRO:HG3	2:M:115:ASP:HB2	0.91	0.90
1:K:3:PRO:HG2	1:K:11:TYR:CE2	2.00	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:68:ILE:HG23	1:K:69:PRO:HD2	1.53	0.90
1:C:739:PRO:HB2	1:E:341:THR:HG21	1.52	0.90
1:D:640:GLN:NE2	1:D:929:ARG:HH22	1.68	0.90
1:E:281:PRO:HD3	1:F:438:TRP:CZ3	2.05	0.90
1:C:341:THR:CB	1:K:693:GLY:N	2.34	0.90
1:J:892:LEU:HA	1:J:895:ASN:OD1	1.72	0.90
1:D:638:ASN:ND2	1:E:24:SER:HB2	1.86	0.90
1:J:427:LYS:CG	1:J:445:PHE:CD2	2.53	0.90
1:H:737:LEU:HA	1:I:62:ARG:NH2	1.86	0.90
1:E:737:LEU:CB	1:E:753:TYR:HE2	1.84	0.90
1:J:774:ASN:HD21	1:J:880:SER:H	1.12	0.90
1:G:727:SER:HB3	4:P:15:PRO:HG2	1.53	0.90
2:M:39:PRO:CB	3:N:27:TRP:CG	2.54	0.90
1:I:759:ASN:HB3	5:T:50:GLU:HB3	1.52	0.90
1:F:805:VAL:CG1	1:F:855:VAL:HG21	1.98	0.90
3:N:169:ARG:CG	3:N:169:ARG:HH11	1.84	0.90
1:J:362:ASP:HB3	1:J:941:ARG:HH22	1.37	0.90
3:N:196:LEU:CA	4:O:197:TYR:CE2	2.37	0.89
3:N:27:TRP:HE3	3:N:27:TRP:O	1.54	0.89
1:F:13:HIS:CE1	1:F:22:TYR:CD2	2.60	0.89
5:Q:111:THR:HG21	5:T:110:LEU:CG	2.02	0.89
1:C:229:MET:HE1	1:C:314:MET:CG	1.98	0.89
2:M:48:PRO:HA	3:N:106:ASN:HB2	1.53	0.89
1:L:4:SER:CB	4:O:55:LEU:HD11	2.02	0.89
1:G:928:HIS:CE1	4:P:39:HIS:HB3	2.08	0.89
1:H:8:GLN:CG	4:P:31:ILE:CD1	2.49	0.89
1:I:251:LYS:HB3	1:I:252:GLN:HA	0.92	0.89
1:A:295:PRO:HB3	1:C:853:THR:CG2	2.02	0.89
1:K:777:TYR:HE1	1:L:63:LEU:CD2	1.85	0.89
4:P:55:LEU:HD23	4:P:194:PRO:O	1.72	0.89
1:J:895:ASN:HB3	4:P:214:PRO:O	1.72	0.89
2:M:41:VAL:CG2	3:N:63:PRO:HB2	2.02	0.89
1:D:463:LEU:CD2	1:F:463:LEU:HD11	2.01	0.89
1:B:640:GLN:NE2	1:B:929:ARG:HH22	1.68	0.89
1:A:13:HIS:CE1	1:A:22:TYR:CD2	2.60	0.89
1:A:91:ARG:NH1	1:E:353:GLN:HG3	1.87	0.89
1:G:556:PRO:CG	5:T:52:VAL:CG2	2.50	0.89
2:M:144:LYS:HB2	2:M:249:ASP:HB3	1.52	0.89
1:G:777:TYR:HE1	1:H:63:LEU:HD22	1.37	0.89
1:K:362:ASP:HB3	1:K:941:ARG:HH22	1.37	0.89
1:A:88:GLY:HA2	1:E:353:GLN:HB2	1.54	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:931:HIS:CE1	4:P:10:MET:SD	2.66	0.89
4:P:51:ARG:HA	4:P:54:ILE:HD13	1.53	0.89
1:I:248:ILE:HG22	1:I:249:LEU:H	1.29	0.89
1:J:892:LEU:HD23	4:P:225:GLY:H	1.34	0.89
1:J:892:LEU:HD13	4:P:224:ASP:OD1	1.71	0.89
1:D:13:HIS:CE1	1:D:22:TYR:CD2	2.60	0.89
1:C:13:HIS:CE1	1:C:22:TYR:CD2	2.60	0.89
1:J:59:ARG:NH1	4:P:110:GLY:HA3	1.88	0.89
1:J:640:GLN:NE2	1:J:929:ARG:HH22	1.68	0.89
1:C:632:MET:CA	4:O:201:PHE:CZ	2.54	0.89
1:G:737:LEU:CB	1:G:753:TYR:HE2	1.84	0.89
1:J:62:ARG:HH21	1:L:737:LEU:CA	1.85	0.89
1:D:24:SER:HB2	4:P:201:PHE:HB3	1.55	0.89
1:E:13:HIS:CE1	1:E:22:TYR:CD2	2.61	0.89
1:B:13:HIS:CE1	1:B:22:TYR:CD2	2.60	0.89
1:J:463:LEU:CD2	1:L:463:LEU:HD11	2.03	0.89
1:L:246:GLN:HG3	1:L:290:VAL:CG1	2.03	0.89
1:H:13:HIS:CE1	1:H:22:TYR:CD2	2.60	0.89
1:J:874:PHE:HZ	1:J:893:TYR:CZ	1.88	0.89
4:P:92:PRO:O	4:P:93:ARG:HG2	1.70	0.89
1:K:13:HIS:CE1	1:K:22:TYR:CD2	2.60	0.89
1:G:444:GLU:CA	1:G:445:PHE:HB2	1.97	0.89
1:D:425:LEU:HD22	1:F:267:SER:O	1.73	0.89
1:F:636:ASP:H	4:P:25:GLN:HE22	1.12	0.89
1:H:251:LYS:HB3	1:H:252:GLN:HA	0.92	0.89
1:C:948:ASN:O	1:K:344:MET:HE1	1.72	0.89
1:C:90:ASN:HD22	4:O:224:ASP:CB	1.83	0.89
1:G:180:LYS:CE	1:H:430:PRO:CG	2.50	0.89
1:H:281:PRO:CD	1:I:438:TRP:CZ3	2.55	0.89
1:A:68:ILE:CG1	1:E:73:GLU:CG	2.49	0.89
1:G:13:HIS:CE1	1:G:22:TYR:CD2	2.61	0.89
1:J:13:HIS:CE1	1:J:22:TYR:CD2	2.60	0.89
1:G:103:ARG:HD2	1:I:752:GLY:HA2	1.55	0.89
1:L:362:ASP:HB3	1:L:941:ARG:HH22	1.37	0.89
1:D:267:SER:O	1:E:425:LEU:HD22	1.73	0.89
1:J:131:PRO:HG2	1:L:839:GLN:HE21	1.37	0.89
1:J:942:THR:HB	4:P:16:GLN:HE22	1.38	0.89
1:I:13:HIS:CE1	1:I:22:TYR:CD2	2.60	0.89
1:K:853:THR:CG2	1:L:295:PRO:HB3	2.03	0.89
1:K:839:GLN:HE21	1:L:131:PRO:HG2	1.37	0.89
1:G:892:LEU:HB2	4:P:189:ILE:CD1	2.03	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:180:LYS:CD	1:B:430:PRO:HG3	2.02	0.88
1:G:248:ILE:HG22	1:G:249:LEU:H	1.29	0.88
1:L:251:LYS:HB3	1:L:252:GLN:HA	0.92	0.88
1:H:62:ARG:NE	1:J:354:LEU:CG	2.35	0.88
1:J:521:ALA:HB2	1:K:551:ASN:CB	2.03	0.88
1:C:931:HIS:NE2	4:O:24:ALA:HB3	1.88	0.88
1:B:805:VAL:HG12	1:B:855:VAL:CG2	1.99	0.88
3:N:300:LEU:CD2	3:N:300:LEU:O	2.21	0.88
2:M:44:ARG:HH21	3:N:65:ARG:HD2	1.38	0.88
1:C:353:GLN:HB2	1:K:651:MET:CE	2.03	0.88
1:I:948:ASN:ND2	1:I:949:ALA:HB2	1.87	0.88
1:J:673:ALA:CB	1:K:9:TRP:HZ2	1.82	0.88
1:J:14:ILE:HD11	1:L:924:VAL:CG2	2.03	0.88
1:D:165:THR:O	1:E:445:PHE:HA	1.71	0.88
1:C:934:VAL:HG11	4:O:27:TYR:CE1	2.07	0.88
1:F:353:GLN:HG3	1:G:651:MET:CE	2.03	0.88
1:J:246:GLN:HG3	1:J:290:VAL:HG12	1.56	0.88
3:N:204:ALA:HB1	3:N:235:LEU:HD22	1.54	0.88
1:G:267:SER:O	1:H:425:LEU:HD22	1.73	0.88
1:G:362:ASP:HB3	1:G:941:ARG:HH22	1.36	0.88
1:G:755:VAL:HG13	1:G:762:LYS:HG2	1.56	0.88
1:C:737:LEU:O	1:E:342:GLY:HA2	1.72	0.88
5:Q:104:LEU:HD12	5:T:103:LEU:CG	2.02	0.88
1:E:246:GLN:HG3	1:E:290:VAL:CG1	2.03	0.88
1:A:25:PRO:CB	4:O:202:SER:HA	2.03	0.88
1:K:805:VAL:HG12	1:K:855:VAL:CG2	1.99	0.88
1:I:246:GLN:HG3	1:I:290:VAL:CG1	2.03	0.88
1:C:75:THR:CB	1:K:697:TYR:HE2	1.85	0.88
1:G:721:ALA:HB1	1:J:947:GLY:HA3	1.53	0.88
2:M:39:PRO:CB	3:N:27:TRP:CD1	2.56	0.88
1:C:353:GLN:HB2	1:K:651:MET:HE1	1.56	0.88
1:D:362:ASP:HB3	1:D:941:ARG:HH22	1.37	0.88
1:I:949:ALA:HB3	1:I:950:THR:OG1	1.71	0.88
1:L:178:ILE:HD13	1:L:284:VAL:HG23	1.52	0.88
1:C:691:GLY:O	1:K:77:TYR:HE2	1.56	0.88
1:C:737:LEU:CG	1:C:753:TYR:HE2	1.87	0.88
1:E:853:THR:CG2	1:F:295:PRO:HB3	2.02	0.88
1:B:755:VAL:HG13	1:B:762:LYS:HG2	1.56	0.88
1:H:755:VAL:HG13	1:H:762:LYS:HG2	1.56	0.88
1:G:246:GLN:HG3	1:G:290:VAL:CG1	2.03	0.88
1:K:755:VAL:HG13	1:K:762:LYS:HG2	1.56	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:638:ASN:HD21	1:H:24:SER:HB3	0.72	0.88
1:E:949:ALA:CA	1:E:950:THR:CB	2.51	0.88
1:D:132:CYS:SG	1:D:229:MET:HE3	2.13	0.88
1:G:427:LYS:CG	1:G:445:PHE:HD2	1.87	0.88
1:H:874:PHE:CZ	1:H:893:TYR:CE1	2.62	0.88
1:J:246:GLN:HG3	1:J:290:VAL:CG1	2.03	0.88
1:L:246:GLN:HG3	1:L:290:VAL:HG12	1.56	0.88
1:H:281:PRO:HG3	1:I:438:TRP:CZ3	2.08	0.88
1:H:62:ARG:CG	1:J:354:LEU:CD2	2.49	0.88
1:L:13:HIS:CE1	1:L:22:TYR:CD2	2.60	0.88
1:L:874:PHE:CZ	1:L:893:TYR:CE1	2.62	0.88
1:K:463:LEU:HD11	1:L:463:LEU:CD2	2.03	0.88
1:A:777:TYR:CE1	1:B:63:LEU:CD2	2.56	0.88
1:J:697:TYR:CE2	5:Q:75:ILE:HG22	2.08	0.88
1:E:874:PHE:CZ	1:E:893:TYR:CE1	2.62	0.88
1:A:874:PHE:CZ	1:A:893:TYR:CE1	2.62	0.88
1:F:874:PHE:CZ	1:F:893:TYR:CE1	2.62	0.88
1:G:246:GLN:HE21	1:G:290:VAL:HG11	1.34	0.88
1:E:246:GLN:HG3	1:E:290:VAL:HG12	1.56	0.88
1:D:131:PRO:HG2	1:F:839:GLN:HE21	1.39	0.88
1:G:874:PHE:CZ	1:G:893:TYR:CE1	2.62	0.88
1:H:3:PRO:O	1:H:6:MET:HG2	1.72	0.88
1:F:931:HIS:HE1	4:P:10:MET:SD	1.96	0.88
1:F:936:GLU:OE2	4:P:27:TYR:HD1	1.57	0.88
4:O:36:ALA:CA	4:O:40:MET:SD	2.61	0.88
1:D:755:VAL:HG13	1:D:762:LYS:HG2	1.55	0.88
1:E:844:ASN:CB	1:F:246:GLN:NE2	2.30	0.88
1:H:661:ASN:HB2	5:S:12:SER:HB3	1.52	0.88
2:M:82:LEU:HB3	2:M:92:LEU:HD12	1.54	0.88
1:C:341:THR:O	1:K:692:SER:CB	2.20	0.88
1:F:178:ILE:HD13	1:F:284:VAL:HG23	1.54	0.88
1:C:246:GLN:HG3	1:C:290:VAL:HG12	1.56	0.88
1:G:670:ASN:H	4:P:10:MET:CE	1.87	0.87
1:C:874:PHE:CZ	1:C:893:TYR:CE1	2.62	0.87
1:J:62:ARG:NH2	1:L:737:LEU:HA	1.89	0.87
1:B:874:PHE:CZ	1:B:893:TYR:CE1	2.62	0.87
1:I:427:LYS:CG	1:I:445:PHE:HD2	1.87	0.87
1:I:874:PHE:CZ	1:I:893:TYR:CE1	2.62	0.87
1:G:751:GLU:O	1:H:558:HIS:CE1	2.26	0.87
1:J:755:VAL:HG13	1:J:762:LYS:HG2	1.56	0.87
1:C:246:GLN:HG3	1:C:290:VAL:CG1	2.03	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:737:LEU:HB3	1:K:753:TYR:CE2	2.10	0.87
1:D:56:THR:HG21	1:F:876:SER:HB2	1.53	0.87
1:K:670:ASN:CA	4:O:10:MET:CE	2.52	0.87
1:H:180:LYS:CE	1:I:430:PRO:CG	2.51	0.87
1:A:68:ILE:CG1	1:E:72:ARG:O	2.22	0.87
1:L:908:PRO:HG3	5:Q:43:ASN:HA	1.56	0.87
1:G:891:LEU:HD23	1:H:2:THR:HG22	1.54	0.87
1:H:4:SER:OG	4:P:55:LEU:HD13	1.74	0.87
4:P:36:ALA:CA	4:P:40:MET:SD	2.62	0.87
1:D:438:TRP:CZ3	1:F:281:PRO:HG3	2.09	0.87
1:G:737:LEU:HB3	1:G:753:TYR:CE2	2.10	0.87
1:J:805:VAL:HG12	1:J:855:VAL:CG2	1.99	0.87
1:D:874:PHE:CZ	1:D:893:TYR:CE1	2.62	0.87
1:B:246:GLN:HG3	1:B:290:VAL:CG1	2.03	0.87
1:E:737:LEU:HB3	1:E:753:TYR:CE2	2.10	0.87
1:D:6:MET:CB	1:D:7:PRO:CD	2.43	0.87
1:J:889:GLN:HG3	4:P:17:MET:CE	2.04	0.87
1:E:896:SER:HB3	1:K:932:ARG:NH2	1.88	0.87
1:L:737:LEU:HB3	1:L:753:TYR:CE2	2.10	0.87
1:L:132:CYS:SG	1:L:229:MET:HE3	2.13	0.87
1:A:444:GLU:CA	1:A:445:PHE:HB2	1.97	0.87
1:H:246:GLN:HG3	1:H:290:VAL:CG1	2.03	0.87
1:G:246:GLN:HG3	1:G:290:VAL:HG12	1.56	0.87
1:A:755:VAL:HG13	1:A:762:LYS:HG2	1.56	0.87
1:C:362:ASP:HB3	1:C:941:ARG:HH22	1.37	0.87
1:G:438:TRP:O	1:I:279:LEU:HD22	1.75	0.87
1:L:4:SER:CB	4:O:55:LEU:HD13	2.04	0.87
1:L:4:SER:HB3	4:O:55:LEU:HD11	1.57	0.87
1:D:737:LEU:HB3	1:D:753:TYR:CE2	2.09	0.87
1:D:719:LYS:HD2	5:R:22:TRP:CE3	2.07	0.87
1:F:427:LYS:CG	1:F:445:PHE:HD2	1.87	0.87
1:D:25:PRO:HD2	4:P:202:SER:HA	1.56	0.87
1:D:246:GLN:HG3	1:D:290:VAL:CG1	2.03	0.87
1:H:62:ARG:NE	1:J:354:LEU:HG	1.90	0.87
1:I:737:LEU:HB3	1:I:753:TYR:CE2	2.10	0.87
1:H:283:VAL:HG21	1:I:453:VAL:HG22	1.54	0.87
1:F:755:VAL:HG13	1:F:762:LYS:HG2	1.56	0.87
1:C:341:THR:CB	1:K:693:GLY:CA	2.47	0.87
1:J:737:LEU:HB3	1:J:753:TYR:CE2	2.10	0.87
1:B:946:ALA:HB2	2:M:108:THR:CB	2.05	0.87
1:H:463:LEU:HD11	1:I:463:LEU:CD2	2.04	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:271:ASP:C	4:O:61:ILE:HG23	1.95	0.87
1:A:427:LYS:CG	1:A:445:PHE:HD2	1.87	0.87
1:J:295:PRO:HB3	1:L:853:THR:CG2	2.03	0.87
1:B:737:LEU:HB3	1:B:753:TYR:CE2	2.10	0.87
3:N:300:LEU:CG	3:N:300:LEU:O	2.19	0.87
1:F:608:LYS:CE	1:F:610:ASP:OD2	2.22	0.87
1:B:941:ARG:NH1	2:M:108:THR:CG2	2.35	0.87
1:C:88:GLY:HA3	4:O:226:TYR:HE1	1.40	0.87
5:T:37:ARG:HB3	5:T:38:PRO:HD2	1.57	0.87
1:J:654:PRO:HD2	5:Q:84:PRO:CG	2.04	0.86
1:G:874:PHE:HZ	1:G:893:TYR:CZ	1.91	0.86
1:A:433:GLY:HA3	1:A:437:GLY:HA3	1.55	0.86
1:H:165:THR:O	1:I:445:PHE:HA	1.74	0.86
1:H:427:LYS:CG	1:H:445:PHE:HD2	1.87	0.86
1:D:427:LYS:CG	1:D:445:PHE:HD2	1.87	0.86
1:C:936:GLU:OE2	4:O:27:TYR:CD1	2.27	0.86
1:K:897:ALA:O	4:O:12:SER:HA	1.75	0.86
1:K:942:THR:HB	4:O:29:THR:HG23	1.56	0.86
1:A:88:GLY:H	1:E:353:GLN:NE2	1.72	0.86
1:F:948:ASN:HD22	1:G:358:VAL:HG22	1.38	0.86
1:G:928:HIS:CE1	4:P:39:HIS:O	2.28	0.86
1:E:251:LYS:HB3	1:E:252:GLN:HA	0.92	0.86
1:I:433:GLY:C	1:I:437:GLY:CA	2.44	0.86
5:Q:55:THR:N	5:Q:56:PRO:CD	2.39	0.86
1:A:777:TYR:CE1	1:B:63:LEU:HD22	2.10	0.86
1:B:246:GLN:HG3	1:B:290:VAL:HG12	1.56	0.86
1:A:737:LEU:HB3	1:A:753:TYR:CE2	2.10	0.86
3:N:196:LEU:CB	4:O:197:TYR:CE2	2.58	0.86
1:H:3:PRO:CB	4:P:54:ILE:HB	2.03	0.86
1:K:22:TYR:O	1:K:22:TYR:HD1	1.58	0.86
2:M:230:VAL:HG13	2:M:503:GLN:HE22	1.40	0.86
5:S:37:ARG:HB3	5:S:38:PRO:HD2	1.57	0.86
1:H:839:GLN:HE21	1:I:131:PRO:HG2	1.38	0.86
1:K:897:ALA:CB	4:O:10:MET:HE1	2.05	0.86
1:J:950:THR:CB	1:J:951:THR:CG2	2.52	0.86
1:I:229:MET:HE1	1:I:314:MET:CG	1.99	0.86
1:J:22:TYR:O	1:J:22:TYR:HD1	1.58	0.86
1:B:427:LYS:CG	1:B:445:PHE:HD2	1.87	0.86
1:J:178:ILE:HD13	1:J:284:VAL:HG23	1.56	0.86
1:H:699:THR:CG2	5:S:32:SER:HB2	1.98	0.86
1:H:737:LEU:HB3	1:H:753:TYR:CE2	2.10	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:246:GLN:HG3	1:H:290:VAL:HG12	1.56	0.86
1:I:246:GLN:HG3	1:I:290:VAL:HG12	1.56	0.86
1:E:755:VAL:HG13	1:E:762:LYS:HG2	1.56	0.86
1:K:874:PHE:CZ	1:K:893:TYR:CE1	2.64	0.86
1:K:892:LEU:HA	4:O:189:ILE:HG12	1.55	0.86
1:L:751:GLU:OE1	5:Q:52:VAL:CG1	2.23	0.86
1:F:60:SER:N	1:K:60:SER:CB	2.37	0.86
4:P:93:ARG:NH1	4:P:160:PRO:HB3	1.91	0.86
1:D:463:LEU:HD11	1:E:463:LEU:CD2	2.05	0.86
1:C:427:LYS:CG	1:C:445:PHE:HD2	1.87	0.86
1:L:755:VAL:HG13	1:L:762:LYS:HG2	1.55	0.86
1:B:229:MET:CE	1:B:314:MET:CG	2.54	0.86
1:E:427:LYS:CG	1:E:445:PHE:HD2	1.87	0.86
1:H:601:ARG:CZ	5:S:32:SER:O	2.24	0.86
1:A:859:THR:OG1	1:B:556:PRO:HD2	1.75	0.86
1:B:941:ARG:HD2	1:B:944:PHE:O	1.75	0.86
1:E:132:CYS:SG	1:E:229:MET:HE2	2.13	0.86
1:C:670:ASN:ND2	1:K:353:GLN:HB3	1.89	0.86
1:L:22:TYR:O	1:L:22:TYR:HD1	1.58	0.86
1:K:427:LYS:CG	1:K:445:PHE:HD2	1.87	0.86
1:L:427:LYS:HG3	1:L:445:PHE:HD2	1.40	0.86
1:H:853:THR:HG22	1:I:293:GLU:OE1	1.76	0.86
1:F:737:LEU:HB3	1:F:753:TYR:CE2	2.10	0.86
1:L:861:LYS:CE	5:Q:50:GLU:OE1	2.24	0.86
1:G:178:ILE:HD13	1:G:284:VAL:HG23	1.54	0.86
1:G:281:PRO:HG3	1:H:438:TRP:HH2	1.41	0.86
1:E:727:SER:CB	1:K:66:ARG:O	2.24	0.86
1:G:903:THR:OG1	1:J:948:ASN:HA	1.75	0.86
1:K:3:PRO:HG3	1:K:11:TYR:CD2	2.03	0.86
1:A:68:ILE:CD1	1:E:73:GLU:CB	2.46	0.86
1:G:558:HIS:CE1	1:I:754:ASN:O	2.29	0.86
1:B:19:ALA:O	1:B:23:LEU:CB	2.24	0.86
1:J:427:LYS:CG	1:J:445:PHE:HD2	1.87	0.86
5:Q:37:ARG:HB3	5:Q:38:PRO:HD2	1.57	0.86
1:F:610:ASP:CG	5:T:99:LYS:HB2	1.96	0.86
1:C:755:VAL:HG13	1:C:762:LYS:HG2	1.56	0.86
1:H:948:ASN:HB2	1:H:949:ALA:CA	2.05	0.86
1:H:948:ASN:CB	1:H:949:ALA:HA	1.97	0.86
1:J:884:LEU:HD23	1:K:49:VAL:HG13	1.56	0.86
1:F:341:THR:CB	1:G:693:GLY:CA	2.52	0.86
1:F:632:MET:HB3	4:P:201:PHE:CE1	2.10	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:70:VAL:CB	1:E:71:ASP:OD1	2.23	0.86
1:J:229:MET:CE	1:J:314:MET:CG	2.54	0.86
1:K:132:CYS:SG	1:K:229:MET:HE3	2.16	0.86
1:I:19:ALA:O	1:I:23:LEU:CB	2.24	0.86
1:J:463:LEU:HD11	1:K:463:LEU:CD2	2.04	0.86
1:E:853:THR:HG22	1:F:293:GLU:OE1	1.75	0.86
1:D:295:PRO:HB3	1:F:853:THR:CG2	2.06	0.86
1:C:929:ARG:HH11	1:C:929:ARG:HG3	1.41	0.86
1:G:891:LEU:CB	4:P:189:ILE:CG2	2.54	0.85
1:H:22:TYR:O	1:H:22:TYR:HD1	1.59	0.85
1:E:281:PRO:CD	1:F:438:TRP:CZ3	2.59	0.85
1:G:936:GLU:OE2	4:P:37:GLY:HA3	1.75	0.85
1:D:737:LEU:HD13	1:D:753:TYR:CE2	2.11	0.85
1:I:755:VAL:HG13	1:I:762:LYS:HG2	1.56	0.85
2:M:44:ARG:NE	3:N:65:ARG:HD2	1.91	0.85
1:A:737:LEU:HD13	1:A:753:TYR:CE2	2.11	0.85
1:F:737:LEU:HD13	1:F:753:TYR:CE2	2.11	0.85
1:G:936:GLU:HB3	4:P:40:MET:SD	2.16	0.85
1:E:22:TYR:O	1:E:22:TYR:HD1	1.59	0.85
1:K:19:ALA:O	1:K:23:LEU:CB	2.24	0.85
1:G:229:MET:CE	1:G:314:MET:CG	2.53	0.85
1:K:929:ARG:HG3	1:K:929:ARG:HH11	1.41	0.85
1:K:884:LEU:HD23	1:L:49:VAL:HG13	1.58	0.85
1:B:839:GLN:HE21	1:C:131:PRO:HG2	1.41	0.85
1:A:88:GLY:N	1:E:353:GLN:NE2	2.24	0.85
1:G:180:LYS:CD	1:H:430:PRO:HG3	2.05	0.85
1:K:727:SER:HB2	4:O:15:PRO:CG	2.07	0.85
1:E:165:THR:O	1:F:445:PHE:HA	1.76	0.85
1:D:246:GLN:HG3	1:D:290:VAL:HG12	1.56	0.85
1:E:737:LEU:HD13	1:E:753:TYR:CE2	2.11	0.85
4:O:163:THR:HG22	4:O:165:ARG:H	1.41	0.85
1:L:8:GLN:CD	4:O:31:ILE:CD1	2.44	0.85
1:F:670:ASN:HB2	1:G:353:GLN:CB	2.02	0.85
1:K:891:LEU:HB3	1:K:895:ASN:OD1	1.76	0.85
1:G:281:PRO:CG	1:H:438:TRP:CH2	2.57	0.85
1:H:132:CYS:SG	1:H:229:MET:HE3	2.14	0.85
1:H:229:MET:CE	1:H:314:MET:CG	2.54	0.85
1:H:853:THR:CG2	1:I:295:PRO:HB3	2.06	0.85
3:N:299:TYR:O	3:N:300:LEU:HD22	1.76	0.85
1:K:737:LEU:HD13	1:K:753:TYR:CE2	2.11	0.85
1:L:8:GLN:OE1	1:L:8:GLN:CA	2.23	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:727:SER:CB	4:O:15:PRO:HB2	2.06	0.85
5:R:107:LEU:CD1	5:S:125:ARG:HB2	2.06	0.85
1:D:929:ARG:HH11	1:D:929:ARG:HG3	1.41	0.85
1:A:22:TYR:HD1	1:A:22:TYR:O	1.58	0.85
1:G:945:SER:HB3	4:P:29:THR:N	1.92	0.85
1:E:949:ALA:N	1:E:950:THR:C	2.30	0.85
1:J:947:GLY:H	1:J:949:ALA:CB	1.89	0.85
1:G:737:LEU:HD13	1:G:753:TYR:CE2	2.11	0.85
1:G:19:ALA:HA	1:G:23:LEU:HG	1.59	0.85
1:L:19:ALA:O	1:L:23:LEU:CB	2.24	0.85
1:K:165:THR:O	1:L:445:PHE:HA	1.77	0.85
1:B:853:THR:CG2	1:C:295:PRO:HB3	2.06	0.85
1:E:929:ARG:HG3	1:E:929:ARG:HH11	1.41	0.85
1:A:19:ALA:HA	1:A:23:LEU:HG	1.59	0.85
1:K:670:ASN:HB3	4:O:28:SER:OG	1.77	0.85
2:M:39:PRO:CG	3:N:27:TRP:CG	2.59	0.85
1:F:19:ALA:O	1:F:23:LEU:CB	2.24	0.85
1:L:229:MET:CE	1:L:314:MET:CG	2.54	0.85
1:I:22:TYR:O	1:I:22:TYR:HD1	1.59	0.85
3:N:275:PHE:CE2	4:O:62:THR:CG2	2.59	0.85
1:L:427:LYS:CG	1:L:445:PHE:HD2	1.87	0.85
1:I:268:THR:OG1	1:I:282:LYS:HD2	1.77	0.85
1:H:874:PHE:HZ	1:H:893:TYR:CZ	1.95	0.85
1:G:49:VAL:HG13	1:I:884:LEU:HD23	1.59	0.85
1:F:947:GLY:O	1:F:948:ASN:HB2	1.74	0.85
1:L:737:LEU:HD13	1:L:753:TYR:CE2	2.11	0.85
1:A:66:ARG:HH11	1:A:66:ARG:HG2	1.40	0.85
1:E:19:ALA:O	1:E:23:LEU:CB	2.24	0.85
1:L:19:ALA:HA	1:L:23:LEU:HG	1.59	0.85
1:B:874:PHE:HZ	1:B:893:TYR:CZ	1.95	0.85
1:K:178:ILE:HD13	1:K:284:VAL:HG23	1.59	0.85
1:G:283:VAL:HG21	1:H:453:VAL:HG22	1.59	0.85
1:F:268:THR:OG1	1:F:282:LYS:HD2	1.77	0.85
1:D:874:PHE:HZ	1:D:893:TYR:CZ	1.95	0.85
1:H:737:LEU:HD13	1:H:753:TYR:CE2	2.11	0.85
1:F:753:TYR:O	1:F:762:LYS:HG3	1.77	0.85
1:E:753:TYR:O	1:E:762:LYS:HG3	1.77	0.85
1:D:19:ALA:O	1:D:23:LEU:CB	2.24	0.85
1:E:632:MET:HB3	1:F:27:LEU:CG	2.07	0.85
1:C:19:ALA:O	1:C:23:LEU:CB	2.24	0.85
1:C:753:TYR:O	1:C:762:LYS:HG3	1.77	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:229:MET:CE	1:I:314:MET:CG	2.54	0.85
1:B:891:LEU:HD23	1:B:892:LEU:N	1.92	0.85
1:K:427:LYS:HG3	1:K:445:PHE:HD2	1.40	0.85
1:G:295:PRO:HB3	1:I:853:THR:CG2	2.06	0.85
1:B:753:TYR:O	1:B:762:LYS:HG3	1.77	0.85
1:G:268:THR:OG1	1:G:282:LYS:HD2	1.77	0.85
1:J:929:ARG:HG3	1:J:929:ARG:HH11	1.41	0.85
1:J:438:TRP:HZ3	1:L:280:THR:HA	1.42	0.85
1:F:22:TYR:HD1	1:F:22:TYR:O	1.58	0.85
1:J:853:THR:CG2	1:K:295:PRO:HB3	2.07	0.85
1:I:737:LEU:HD13	1:I:753:TYR:CE2	2.11	0.85
1:B:929:ARG:HH11	1:B:929:ARG:HG3	1.41	0.85
2:M:152:LEU:HB3	2:M:153:PRO:HD2	1.59	0.85
5:R:37:ARG:HB3	5:R:38:PRO:HD2	1.57	0.85
1:J:728:VAL:CB	4:P:226:TYR:CG	2.60	0.84
1:A:19:ALA:O	1:A:23:LEU:CB	2.24	0.84
1:G:897:ALA:O	1:G:898:HIS:CG	2.30	0.84
1:E:178:ILE:HD13	1:E:284:VAL:HG23	1.56	0.84
1:H:62:ARG:CZ	1:J:354:LEU:CB	2.55	0.84
1:D:753:TYR:O	1:D:762:LYS:HG3	1.77	0.84
1:F:19:ALA:HA	1:F:23:LEU:HG	1.59	0.84
1:G:19:ALA:O	1:G:23:LEU:CB	2.24	0.84
1:A:874:PHE:HZ	1:A:893:TYR:CZ	1.95	0.84
1:G:929:ARG:HG3	1:G:929:ARG:HH11	1.41	0.84
5:R:49:TYR:CD1	5:R:49:TYR:O	2.30	0.84
1:K:520:GLY:HA2	1:L:114:PRO:O	1.77	0.84
1:J:737:LEU:HD13	1:J:753:TYR:CE2	2.11	0.84
1:E:19:ALA:HA	1:E:23:LEU:HG	1.59	0.84
1:G:22:TYR:HD1	1:G:22:TYR:O	1.58	0.84
1:B:22:TYR:O	1:B:22:TYR:HD1	1.58	0.84
1:E:268:THR:OG1	1:E:282:LYS:HD2	1.78	0.84
1:F:70:VAL:O	5:Q:90:ALA:CB	2.25	0.84
1:K:753:TYR:O	1:K:762:LYS:HG3	1.77	0.84
1:H:929:ARG:HH11	1:H:929:ARG:HG3	1.41	0.84
1:H:19:ALA:O	1:H:23:LEU:CB	2.24	0.84
1:C:874:PHE:CZ	1:C:893:TYR:CZ	2.66	0.84
1:J:59:ARG:CZ	4:P:110:GLY:HA3	2.07	0.84
1:A:638:ASN:HD21	1:B:24:SER:CB	1.91	0.84
3:N:279:THR:CB	4:O:80:TYR:OH	2.25	0.84
1:F:874:PHE:HZ	1:F:893:TYR:CZ	1.95	0.84
1:J:754:ASN:O	1:K:558:HIS:CE1	2.30	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:49:TYR:HD1	5:R:49:TYR:O	1.59	0.84
1:E:267:SER:O	1:F:425:LEU:HD22	1.77	0.84
1:B:876:SER:HB2	1:C:56:THR:HG21	1.59	0.84
1:K:928:HIS:HE1	4:O:39:HIS:ND1	1.74	0.84
1:A:25:PRO:HD2	4:O:201:PHE:C	1.97	0.84
1:A:929:ARG:HH11	1:A:929:ARG:HG3	1.41	0.84
1:J:433:GLY:C	1:J:437:GLY:CA	2.45	0.84
1:J:438:TRP:CZ3	1:L:280:THR:HA	2.12	0.84
1:H:433:GLY:C	1:H:437:GLY:CA	2.45	0.84
1:J:753:TYR:O	1:J:762:LYS:HG3	1.77	0.84
1:K:19:ALA:HA	1:K:23:LEU:HG	1.59	0.84
1:J:22:TYR:O	1:J:22:TYR:CD1	2.31	0.84
1:I:19:ALA:HA	1:I:23:LEU:HG	1.59	0.84
1:H:651:MET:HE1	5:S:18:ARG:HD3	1.58	0.84
1:J:165:THR:O	1:K:445:PHE:HA	1.76	0.84
1:J:268:THR:OG1	1:J:282:LYS:HD2	1.77	0.84
1:E:874:PHE:CZ	1:E:893:TYR:CZ	2.66	0.84
1:A:839:GLN:HE21	1:B:131:PRO:HG2	1.43	0.84
1:A:22:TYR:CD1	1:A:22:TYR:O	2.31	0.84
1:C:874:PHE:HZ	1:C:893:TYR:CZ	1.95	0.84
5:Q:49:TYR:O	5:Q:49:TYR:CD1	2.31	0.84
1:I:248:ILE:HG21	1:I:250:VAL:HG12	1.60	0.84
1:L:753:TYR:O	1:L:762:LYS:HG3	1.77	0.84
1:A:66:ARG:HG2	1:A:66:ARG:NH1	1.92	0.84
1:I:741:GLU:CD	5:T:22:TRP:NE1	2.31	0.84
1:C:218:ALA:HB3	1:C:283:VAL:CG2	2.01	0.84
1:D:63:LEU:CD2	1:F:777:TYR:CE1	2.60	0.84
4:P:163:THR:HG22	4:P:165:ARG:H	1.41	0.84
1:F:897:ALA:CB	1:G:350:GLN:CB	2.55	0.84
1:F:934:VAL:HG11	4:P:27:TYR:CE1	2.13	0.84
1:F:341:THR:OG1	1:G:693:GLY:HA3	1.78	0.84
1:D:22:TYR:O	1:D:22:TYR:CD1	2.31	0.84
1:F:229:MET:CE	1:F:314:MET:CG	2.54	0.84
1:B:22:TYR:CD1	1:B:22:TYR:O	2.31	0.84
1:B:737:LEU:HD13	1:B:753:TYR:CE2	2.11	0.84
1:G:551:ASN:CB	1:I:521:ALA:HB2	2.07	0.84
1:D:25:PRO:HD2	4:P:202:SER:CA	2.08	0.84
1:H:753:TYR:O	1:H:762:LYS:HG3	1.77	0.84
1:K:267:SER:O	1:L:425:LEU:HD22	1.76	0.84
1:A:178:ILE:HD13	1:A:284:VAL:HG23	1.58	0.84
1:H:178:ILE:HD13	1:H:284:VAL:HG23	1.60	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:433:GLY:C	1:D:437:GLY:CA	2.46	0.84
1:D:430:PRO:HG3	1:F:180:LYS:CD	2.07	0.84
1:J:844:ASN:CB	1:K:246:GLN:NE2	2.31	0.84
1:A:229:MET:CE	1:A:314:MET:CG	2.54	0.84
1:G:22:TYR:O	1:G:22:TYR:CD1	2.31	0.84
1:J:19:ALA:O	1:J:23:LEU:CB	2.24	0.84
1:C:178:ILE:HD13	1:C:284:VAL:HG23	1.59	0.84
1:E:874:PHE:HZ	1:E:893:TYR:CZ	1.95	0.84
1:I:929:ARG:HG3	1:I:929:ARG:HH11	1.41	0.84
1:K:936:GLU:HB3	4:O:40:MET:SD	2.18	0.84
1:B:257:LEU:HD22	1:B:259:SER:CA	2.08	0.84
1:C:248:ILE:HG21	1:C:250:VAL:HG12	1.60	0.84
1:J:892:LEU:CA	1:J:895:ASN:OD1	2.25	0.84
1:K:257:LEU:HD22	1:K:259:SER:CA	2.08	0.84
1:D:22:TYR:O	1:D:22:TYR:HD1	1.59	0.84
1:D:24:SER:HB3	1:F:638:ASN:HD21	1.42	0.84
1:F:22:TYR:CD1	1:F:22:TYR:O	2.31	0.84
1:C:22:TYR:O	1:C:22:TYR:HD1	1.59	0.84
1:J:606:SER:CB	5:Q:58:GLU:CB	2.45	0.84
1:G:853:THR:CG2	1:H:295:PRO:HB3	2.08	0.84
1:F:351:ALA:CB	1:G:667:PRO:HD3	2.07	0.84
1:A:248:ILE:HG21	1:A:250:VAL:HG12	1.60	0.84
1:A:257:LEU:CB	1:A:258:GLU:C	2.46	0.84
1:F:257:LEU:HD22	1:F:259:SER:CA	2.08	0.84
1:L:248:ILE:HG21	1:L:250:VAL:HG12	1.60	0.84
1:F:341:THR:HB	1:G:693:GLY:HA3	1.53	0.84
1:F:237:ALA:HB3	1:F:246:GLN:OE1	1.77	0.84
1:I:22:TYR:O	1:I:22:TYR:CD1	2.31	0.84
3:N:271:ASP:OD2	4:O:61:ILE:HD13	1.78	0.84
1:J:105:VAL:CG1	5:Q:56:PRO:O	2.26	0.84
1:D:453:VAL:HG22	1:F:283:VAL:HG21	1.60	0.84
1:I:874:PHE:CZ	1:I:893:TYR:CZ	2.66	0.84
1:G:777:TYR:HE1	1:H:63:LEU:CD2	1.90	0.84
4:O:7:THR:HB	4:O:25:GLN:HG2	1.60	0.84
1:A:257:LEU:HD22	1:A:259:SER:CA	2.08	0.84
1:D:248:ILE:CG2	1:D:249:LEU:N	2.41	0.84
1:K:22:TYR:O	1:K:22:TYR:CD1	2.31	0.84
5:Q:55:THR:N	5:Q:56:PRO:HD3	1.93	0.84
1:K:268:THR:OG1	1:K:282:LYS:HD2	1.78	0.84
1:L:268:THR:OG1	1:L:282:LYS:HD2	1.77	0.84
3:N:191:THR:HG23	3:N:192:SER:N	1.92	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:25:PRO:HG3	4:P:176:SER:OG	1.77	0.84
1:L:7:PRO:HB3	4:O:47:ILE:CG1	2.07	0.83
1:E:248:ILE:CG2	1:E:249:LEU:N	2.41	0.83
1:G:433:GLY:C	1:G:437:GLY:CA	2.46	0.83
1:F:257:LEU:CB	1:F:258:GLU:C	2.46	0.83
1:G:248:ILE:HG21	1:G:250:VAL:HG12	1.60	0.83
1:I:257:LEU:HD22	1:I:259:SER:CA	2.08	0.83
1:D:257:LEU:HD22	1:D:259:SER:CA	2.08	0.83
2:M:39:PRO:HB3	3:N:27:TRP:CD1	2.13	0.83
1:F:65:LEU:HD11	1:J:727:SER:HB2	1.57	0.83
1:E:22:TYR:CD1	1:E:23:LEU:HD23	2.13	0.83
1:D:556:PRO:HD2	1:F:859:THR:OG1	1.78	0.83
1:F:929:ARG:HH11	1:F:929:ARG:HG3	1.41	0.83
4:O:7:THR:CG2	4:O:25:GLN:HG2	2.08	0.83
1:F:947:GLY:HA2	1:G:355:ASN:OD1	1.78	0.83
1:K:433:GLY:C	1:K:437:GLY:CA	2.45	0.83
1:L:874:PHE:CZ	1:L:893:TYR:CZ	2.66	0.83
1:E:858:ILE:HD13	5:Q:112:ARG:HH21	1.42	0.83
1:H:268:THR:OG1	1:H:282:LYS:HD2	1.77	0.83
1:A:11:TYR:CZ	1:K:948:ASN:HA	2.14	0.83
1:G:638:ASN:ND2	1:H:24:SER:CB	2.24	0.83
1:B:433:GLY:C	1:B:437:GLY:CA	2.46	0.83
1:B:178:ILE:HD13	1:B:284:VAL:HG23	1.59	0.83
1:B:22:TYR:CD1	1:B:23:LEU:HD23	2.14	0.83
1:D:839:GLN:HE21	1:E:131:PRO:HG2	1.43	0.83
1:A:88:GLY:CA	1:E:353:GLN:CB	2.56	0.83
1:I:949:ALA:N	1:I:950:THR:C	2.30	0.83
1:G:725:ASP:HB3	4:P:15:PRO:HD3	1.60	0.83
1:F:248:ILE:HG21	1:F:250:VAL:HG12	1.60	0.83
1:L:257:LEU:HD22	1:L:259:SER:CA	2.08	0.83
1:G:753:TYR:O	1:G:762:LYS:HG3	1.77	0.83
1:D:27:LEU:HA	1:F:632:MET:HE1	1.60	0.83
1:C:19:ALA:HA	1:C:23:LEU:HG	1.59	0.83
1:C:5:MET:O	1:C:5:MET:HG3	1.76	0.83
1:H:651:MET:CE	5:S:18:ARG:HD3	2.09	0.83
1:B:891:LEU:CB	3:N:93:LEU:HB2	2.09	0.83
1:B:268:THR:OG1	1:B:282:LYS:HD2	1.77	0.83
1:H:5:MET:HB2	4:P:51:ARG:CG	2.07	0.83
1:J:248:ILE:CG2	1:J:249:LEU:N	2.41	0.83
1:C:22:TYR:O	1:C:22:TYR:CD1	2.31	0.83
1:D:853:THR:CG2	1:E:295:PRO:HB3	2.07	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:178:ILE:HD13	1:I:284:VAL:HG23	1.59	0.83
1:A:268:THR:OG1	1:A:282:LYS:HD2	1.78	0.83
1:F:874:PHE:CZ	1:F:893:TYR:CZ	2.66	0.83
3:N:299:TYR:O	3:N:300:LEU:HD23	1.76	0.83
1:A:753:TYR:O	1:A:762:LYS:HG3	1.77	0.83
1:E:884:LEU:HD23	1:F:49:VAL:HG13	1.58	0.83
1:C:899:ALA:CB	1:E:667:PRO:HB2	2.08	0.83
1:L:874:PHE:HZ	1:L:893:TYR:CZ	1.95	0.83
1:L:929:ARG:HG3	1:L:929:ARG:HH11	1.41	0.83
1:A:56:THR:HG21	1:C:876:SER:HB2	1.59	0.83
1:C:229:MET:CE	1:C:314:MET:CG	2.54	0.83
1:D:268:THR:OG1	1:D:282:LYS:HD2	1.78	0.83
1:I:753:TYR:O	1:I:762:LYS:HG3	1.77	0.83
3:N:300:LEU:HG	3:N:300:LEU:O	1.77	0.83
1:F:248:ILE:CG2	1:F:249:LEU:N	2.41	0.83
1:J:894:ALA:CB	4:P:14:GLN:HE21	1.89	0.83
1:E:22:TYR:O	1:E:22:TYR:CD1	2.31	0.83
1:L:22:TYR:CD1	1:L:23:LEU:HD23	2.14	0.83
1:J:853:THR:HG22	1:K:293:GLU:OE1	1.79	0.83
1:D:874:PHE:CZ	1:D:893:TYR:CZ	2.66	0.83
1:A:752:GLY:HA2	1:B:103:ARG:HD2	1.61	0.83
1:B:267:SER:O	1:C:425:LEU:HD22	1.77	0.83
1:H:22:TYR:O	1:H:22:TYR:CD1	2.31	0.83
1:G:725:ASP:O	4:P:15:PRO:CG	2.27	0.83
1:E:281:PRO:CB	1:F:438:TRP:CZ3	2.62	0.83
1:G:257:LEU:HD22	1:G:259:SER:CA	2.08	0.83
1:D:22:TYR:CD1	1:D:23:LEU:HD23	2.14	0.83
1:H:874:PHE:CZ	1:H:893:TYR:CZ	2.66	0.83
1:A:874:PHE:CZ	1:A:893:TYR:CZ	2.66	0.83
1:G:891:LEU:CD2	1:H:2:THR:CG2	2.55	0.83
1:J:430:PRO:CG	1:L:180:LYS:CE	2.54	0.83
1:J:874:PHE:CZ	1:J:893:TYR:CE1	2.66	0.83
1:C:4:SER:OG	1:C:11:TYR:CE1	2.30	0.83
1:C:22:TYR:CD1	1:C:23:LEU:HD23	2.14	0.83
1:K:22:TYR:CD1	1:K:23:LEU:HD23	2.14	0.83
1:J:22:TYR:CD1	1:J:23:LEU:HD23	2.14	0.83
1:L:22:TYR:CD1	1:L:22:TYR:O	2.31	0.83
1:I:22:TYR:CD1	1:I:23:LEU:HD23	2.14	0.83
1:I:427:LYS:HG3	1:I:445:PHE:HD2	1.40	0.83
1:G:62:ARG:HG2	1:I:734:ASP:O	1.79	0.83
1:E:948:ASN:CG	1:E:949:ALA:HA	2.00	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:430:PRO:CG	1:F:180:LYS:HE2	2.09	0.82
3:N:27:TRP:CZ3	3:N:31:MET:HB2	2.15	0.82
1:C:132:CYS:SG	1:C:229:MET:HE3	2.16	0.82
1:B:874:PHE:CZ	1:B:893:TYR:CZ	2.66	0.82
3:N:191:THR:HG23	3:N:192:SER:H	1.42	0.82
1:A:734:ASP:O	1:B:62:ARG:HG2	1.78	0.82
1:K:669:ARG:HD3	4:O:28:SER:HB3	1.61	0.82
1:E:248:ILE:HG21	1:E:250:VAL:HG12	1.60	0.82
1:E:433:GLY:C	1:E:437:GLY:CA	2.46	0.82
1:J:520:GLY:HA2	1:K:114:PRO:O	1.78	0.82
1:A:11:TYR:HB2	4:O:33:TYR:HH	1.45	0.82
1:F:351:ALA:CB	1:G:667:PRO:CD	2.57	0.82
1:H:5:MET:SD	1:H:8:GLN:CG	2.67	0.82
1:H:281:PRO:HB3	1:I:438:TRP:CZ3	2.13	0.82
1:J:248:ILE:HG21	1:J:250:VAL:HG12	1.60	0.82
1:J:257:LEU:HD22	1:J:259:SER:CA	2.08	0.82
1:D:19:ALA:HA	1:D:23:LEU:HG	1.59	0.82
1:G:556:PRO:HB2	5:T:52:VAL:CG2	2.10	0.82
1:D:876:SER:HB2	1:E:56:THR:HG21	1.61	0.82
1:F:86:ALA:CB	1:J:725:ASP:O	2.27	0.82
1:E:257:LEU:HD22	1:E:259:SER:CA	2.08	0.82
1:H:257:LEU:HD22	1:H:259:SER:CA	2.08	0.82
1:I:252:GLN:O	1:I:253:GLN:HG3	1.80	0.82
1:J:892:LEU:CD2	4:P:225:GLY:N	2.41	0.82
1:F:632:MET:CB	4:P:201:PHE:CE2	2.62	0.82
1:E:229:MET:CE	1:E:314:MET:CG	2.53	0.82
1:K:891:LEU:HB3	4:O:189:ILE:CG2	2.09	0.82
1:E:281:PRO:HG3	1:F:438:TRP:CZ3	2.14	0.82
1:H:248:ILE:HG21	1:H:250:VAL:HG12	1.60	0.82
1:D:438:TRP:CZ3	1:F:281:PRO:CG	2.62	0.82
1:K:66:ARG:NH1	1:K:68:ILE:HD11	1.94	0.82
1:K:252:GLN:O	1:K:253:GLN:HG3	1.80	0.82
1:E:633:LEU:CD2	1:E:638:ASN:ND2	2.37	0.82
4:P:159:ARG:CB	4:P:160:PRO:HD3	2.08	0.82
1:H:427:LYS:HG3	1:H:445:PHE:HD2	1.40	0.82
1:L:7:PRO:CB	4:O:47:ILE:HG12	2.09	0.82
1:L:5:MET:CE	4:O:29:THR:HG21	2.09	0.82
1:G:940:LEU:HD11	4:P:29:THR:O	1.79	0.82
1:C:892:LEU:HD23	1:E:949:ALA:C	2.00	0.82
1:G:257:LEU:CB	1:G:258:GLU:C	2.46	0.82
1:C:257:LEU:HD22	1:C:259:SER:CA	2.08	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:433:GLY:C	1:C:437:GLY:CA	2.47	0.82
1:D:252:GLN:O	1:D:253:GLN:HG3	1.80	0.82
1:F:6:MET:CB	1:F:7:PRO:CD	2.43	0.82
1:J:19:ALA:HA	1:J:23:LEU:HG	1.59	0.82
1:J:453:VAL:HG22	1:L:283:VAL:HG21	1.60	0.82
1:G:425:LEU:HD22	1:I:267:SER:O	1.79	0.82
1:K:730:TRP:CG	1:K:731:PRO:HA	2.15	0.82
1:B:752:GLY:HA2	1:C:103:ARG:HD2	1.62	0.82
1:A:22:TYR:CD1	1:A:23:LEU:HD23	2.14	0.82
1:H:19:ALA:HA	1:H:23:LEU:HG	1.59	0.82
1:C:728:VAL:HG21	1:E:948:ASN:CB	2.06	0.82
1:A:183:ILE:HG21	1:A:219:ALA:CB	2.10	0.82
1:C:949:ALA:HA	1:K:341:THR:HG22	1.62	0.82
1:I:132:CYS:SG	1:I:229:MET:HE3	2.17	0.82
1:K:183:ILE:HG21	1:K:219:ALA:CB	2.10	0.82
1:G:897:ALA:C	1:G:898:HIS:ND1	2.33	0.82
1:K:8:GLN:OE1	1:K:8:GLN:HA	1.79	0.82
1:F:632:MET:CB	4:P:201:PHE:CD2	2.63	0.82
1:E:633:LEU:CD2	1:E:638:ASN:HD21	1.93	0.82
1:B:946:ALA:CA	2:M:108:THR:O	2.26	0.82
1:I:719:LYS:HD3	5:T:22:TRP:CE2	2.14	0.82
1:K:229:MET:CE	1:K:314:MET:CG	2.54	0.82
1:H:697:TYR:HA	5:S:31:GLY:CA	2.10	0.82
1:D:551:ASN:CB	1:F:521:ALA:HB2	2.10	0.82
1:I:874:PHE:HZ	1:I:893:TYR:CZ	1.95	0.82
1:J:859:THR:OG1	1:K:556:PRO:HD2	1.79	0.82
1:D:759:ASN:HB3	5:R:50:GLU:OE1	1.80	0.82
1:H:22:TYR:CD1	1:H:23:LEU:HD23	2.13	0.82
1:H:5:MET:HB3	4:P:51:ARG:HH21	1.45	0.82
1:H:5:MET:HB3	4:P:51:ARG:NH2	1.95	0.82
1:H:183:ILE:HG21	1:H:219:ALA:CB	2.10	0.82
1:K:248:ILE:HG21	1:K:250:VAL:HG12	1.60	0.82
1:D:229:MET:CE	1:D:314:MET:CG	2.54	0.82
1:A:853:THR:CG2	1:B:295:PRO:HB3	2.09	0.82
1:E:777:TYR:CE1	1:F:63:LEU:CD2	2.62	0.82
1:E:673:ALA:HB2	1:F:9:TRP:CZ2	2.14	0.82
1:H:4:SER:N	4:P:54:ILE:HD12	1.95	0.82
1:B:252:GLN:O	1:B:253:GLN:HG3	1.80	0.82
1:G:252:GLN:O	1:G:253:GLN:HG3	1.80	0.82
1:C:948:ASN:HD21	1:C:950:THR:HG23	1.44	0.82
1:G:903:THR:OG1	1:J:948:ASN:CA	2.27	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:229:MET:HE1	1:F:314:MET:CG	2.04	0.82
3:N:198:THR:HB	4:O:199:ASN:ND2	1.94	0.81
4:O:208:TYR:H	4:O:208:TYR:HD1	1.27	0.81
1:H:257:LEU:CB	1:H:258:GLU:C	2.46	0.81
1:F:252:GLN:O	1:F:253:GLN:HG3	1.80	0.81
1:D:248:ILE:HG21	1:D:250:VAL:HG12	1.60	0.81
1:B:945:SER:HB2	1:B:946:ALA:O	1.80	0.81
1:B:19:ALA:HA	1:B:23:LEU:HG	1.59	0.81
1:J:283:VAL:HG21	1:K:453:VAL:HG22	1.62	0.81
1:J:635:ASN:HB3	4:P:173:THR:HG21	1.62	0.81
2:M:44:ARG:NH2	3:N:65:ARG:HD2	1.93	0.81
5:S:49:TYR:CD1	5:S:49:TYR:O	2.33	0.81
2:M:82:LEU:HD13	2:M:92:LEU:CD1	2.09	0.81
1:G:939:TYR:HB2	4:P:32:ASN:CG	1.99	0.81
1:E:281:PRO:HG3	1:F:438:TRP:HH2	0.93	0.81
1:F:22:TYR:CD1	1:F:23:LEU:HD23	2.14	0.81
1:B:754:ASN:O	1:C:558:HIS:CE1	2.33	0.81
1:D:751:GLU:HG3	5:R:52:VAL:HG13	1.60	0.81
1:K:859:THR:OG1	1:L:556:PRO:HD2	1.79	0.81
1:B:80:LYS:CD	2:M:455:ARG:O	2.28	0.81
1:K:897:ALA:CB	4:O:10:MET:HB3	2.10	0.81
1:E:257:LEU:CB	1:E:258:GLU:C	2.46	0.81
1:A:252:GLN:O	1:A:253:GLN:HG3	1.80	0.81
1:H:248:ILE:CG2	1:H:249:LEU:N	2.41	0.81
1:A:180:LYS:HE3	1:B:430:PRO:HG3	1.62	0.81
1:C:257:LEU:CB	1:C:258:GLU:C	2.46	0.81
1:F:60:SER:HB3	1:J:733:ASN:H	1.45	0.81
1:D:24:SER:CB	1:F:638:ASN:HD21	1.93	0.81
1:G:22:TYR:CD1	1:G:23:LEU:HD23	2.14	0.81
1:G:556:PRO:CB	5:T:52:VAL:HG21	2.10	0.81
1:C:183:ILE:HG21	1:C:219:ALA:CB	2.10	0.81
1:H:659:ALA:CA	5:S:11:VAL:HG21	2.10	0.81
1:A:521:ALA:HB2	1:B:551:ASN:CB	2.09	0.81
1:F:88:GLY:CA	4:P:226:TYR:HE1	1.93	0.81
1:K:945:SER:HB3	4:O:29:THR:N	1.95	0.81
1:C:248:ILE:CG2	1:C:249:LEU:N	2.41	0.81
1:C:252:GLN:O	1:C:253:GLN:HG3	1.80	0.81
1:L:252:GLN:O	1:L:253:GLN:HG3	1.80	0.81
1:D:27:LEU:CD1	1:F:632:MET:HE1	2.09	0.81
1:A:66:ARG:NH1	1:A:613:CYS:SG	2.53	0.81
4:P:208:TYR:HD1	4:P:208:TYR:H	1.27	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:671:TRP:HD1	1:K:898:HIS:ND1	1.78	0.81
1:B:257:LEU:CB	1:B:258:GLU:C	2.46	0.81
1:I:719:LYS:CD	5:T:22:TRP:CE2	2.63	0.81
1:G:521:ALA:HB2	1:H:551:ASN:CB	2.10	0.81
1:A:49:VAL:HG13	1:C:884:LEU:HD23	1.62	0.81
1:G:891:LEU:HB2	4:P:189:ILE:CG2	2.11	0.81
1:G:891:LEU:O	1:G:895:ASN:CB	2.27	0.81
3:N:278:ILE:HG21	3:N:293:LEU:HD11	1.61	0.81
1:H:247:GLY:O	1:H:248:ILE:CG1	2.28	0.81
1:H:252:GLN:O	1:H:253:GLN:HG3	1.80	0.81
1:C:948:ASN:ND2	1:C:948:ASN:C	2.30	0.81
1:K:354:LEU:HD11	4:O:35:SER:CA	2.11	0.81
1:J:874:PHE:CZ	1:J:893:TYR:OH	2.33	0.81
1:J:947:GLY:CA	1:J:948:ASN:C	2.49	0.81
1:J:669:ARG:NH2	1:J:950:THR:HG23	1.95	0.81
1:K:247:GLY:O	1:K:248:ILE:CG1	2.28	0.81
1:A:66:ARG:HH11	1:A:66:ARG:CG	1.92	0.81
1:F:669:ARG:HB3	1:G:82:ARG:HH12	1.46	0.81
1:F:433:GLY:C	1:F:437:GLY:CA	2.46	0.81
1:F:247:GLY:O	1:F:248:ILE:CG1	2.28	0.81
1:C:247:GLY:O	1:C:248:ILE:CG1	2.28	0.81
1:I:741:GLU:OE1	5:T:22:TRP:CD1	2.33	0.81
2:M:51:GLY:O	2:M:114:ASP:CB	2.28	0.81
1:H:4:SER:CA	4:P:54:ILE:HD11	2.10	0.81
1:L:748:VAL:CB	5:Q:51:THR:O	2.29	0.81
1:K:939:TYR:CB	4:O:32:ASN:HD21	1.87	0.81
1:D:247:GLY:O	1:D:248:ILE:CG1	2.28	0.81
1:J:252:GLN:O	1:J:253:GLN:HG3	1.80	0.81
1:F:89:ASP:HB2	4:P:224:ASP:OD2	1.80	0.81
1:K:257:LEU:CB	1:K:258:GLU:C	2.46	0.81
3:N:271:ASP:CG	4:O:61:ILE:HD13	2.00	0.81
1:A:88:GLY:CA	1:E:353:GLN:HB2	2.11	0.81
1:F:628:THR:HG21	4:P:208:TYR:HE2	1.46	0.81
1:D:8:GLN:HE22	4:P:34:MET:CA	1.92	0.81
1:L:759:ASN:CB	5:Q:50:GLU:OE2	2.27	0.81
1:L:5:MET:HE1	4:O:29:THR:CG2	2.10	0.80
1:D:183:ILE:HG21	1:D:219:ALA:CB	2.10	0.80
1:G:247:GLY:O	1:G:248:ILE:CG1	2.28	0.80
1:F:59:ARG:CA	1:K:60:SER:N	2.36	0.80
1:K:248:ILE:CG2	1:K:249:LEU:N	2.41	0.80
1:K:521:ALA:HB2	1:L:551:ASN:CB	2.10	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:719:LYS:CD	5:Q:22:TRP:CG	2.59	0.80
1:E:252:GLN:O	1:E:253:GLN:HG3	1.80	0.80
1:L:257:LEU:CB	1:L:258:GLU:C	2.46	0.80
1:L:433:GLY:C	1:L:437:GLY:CA	2.47	0.80
1:I:257:LEU:CB	1:I:258:GLU:C	2.46	0.80
1:G:556:PRO:CB	5:T:52:VAL:CG2	2.58	0.80
1:H:589:ASN:HD22	1:H:601:ARG:NH1	1.79	0.80
1:J:839:GLN:NE2	1:K:131:PRO:HG2	1.95	0.80
1:A:24:SER:CB	4:O:201:PHE:CB	2.55	0.80
4:O:201:PHE:CZ	4:O:209:PRO:HG2	2.15	0.80
1:H:5:MET:HE1	4:P:29:THR:OG1	1.82	0.80
1:C:727:SER:HB3	1:E:944:PHE:HD2	1.45	0.80
1:D:257:LEU:CB	1:D:258:GLU:C	2.46	0.80
1:J:942:THR:CB	4:P:16:GLN:NE2	2.45	0.80
1:J:183:ILE:HG21	1:J:219:ALA:CB	2.10	0.80
1:D:283:VAL:HG21	1:E:453:VAL:HG22	1.61	0.80
1:K:751:GLU:O	1:L:558:HIS:CE1	2.34	0.80
1:A:24:SER:HB2	4:O:201:PHE:HB3	1.63	0.80
1:K:945:SER:H	4:O:28:SER:C	1.84	0.80
1:L:748:VAL:HA	1:L:751:GLU:HG3	1.64	0.80
1:B:248:ILE:HG21	1:B:250:VAL:HG12	1.60	0.80
1:H:281:PRO:HG3	1:I:438:TRP:HH2	1.01	0.80
1:E:247:GLY:O	1:E:248:ILE:CG1	2.28	0.80
1:E:183:ILE:HG21	1:E:219:ALA:CB	2.10	0.80
1:J:247:GLY:O	1:J:248:ILE:CG1	2.28	0.80
1:K:22:TYR:CZ	1:K:23:LEU:HD21	2.17	0.80
1:I:22:TYR:CZ	1:I:23:LEU:HD21	2.17	0.80
1:F:353:GLN:OE1	1:G:651:MET:SD	2.39	0.80
1:H:22:TYR:CZ	1:H:23:LEU:HD21	2.17	0.80
1:F:936:GLU:OE2	4:P:27:TYR:CD1	2.34	0.80
1:D:8:GLN:HE22	4:P:34:MET:HA	1.46	0.80
1:G:183:ILE:HG21	1:G:219:ALA:CB	2.10	0.80
1:C:736:LEU:O	1:C:739:PRO:CD	2.29	0.80
1:I:748:VAL:CB	5:T:51:THR:O	2.26	0.80
1:A:247:GLY:O	1:A:248:ILE:CG1	2.28	0.80
1:K:61:GLN:HE22	1:K:623:HIS:HE1	1.29	0.80
1:C:740:ASN:HB2	1:E:341:THR:OG1	1.82	0.80
1:I:741:GLU:CD	5:T:22:TRP:HE1	1.85	0.80
1:L:304:THR:HG22	1:L:306:LYS:H	1.47	0.80
1:G:131:PRO:HG2	1:I:839:GLN:HE21	1.45	0.80
1:I:304:THR:HG22	1:I:306:LYS:H	1.47	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:5:MET:HE3	4:O:29:THR:HG21	1.62	0.80
1:E:248:ILE:O	1:E:249:LEU:CG	2.30	0.80
1:G:248:ILE:O	1:G:249:LEU:CG	2.30	0.80
1:K:180:LYS:CE	1:L:430:PRO:CG	2.55	0.80
1:F:632:MET:HB3	4:P:201:PHE:CG	2.17	0.80
1:E:73:GLU:CD	1:E:80:LYS:HE3	2.01	0.80
1:H:638:ASN:HD21	1:I:24:SER:HB3	1.47	0.80
1:B:73:GLU:HG3	2:M:456:GLN:NE2	1.97	0.80
1:L:11:TYR:CB	4:O:47:ILE:HD13	2.12	0.80
1:F:608:LYS:HE2	1:F:610:ASP:OD2	1.81	0.80
1:H:5:MET:HA	4:P:51:ARG:HG3	1.64	0.80
1:K:891:LEU:HD13	3:N:294:GLU:OE2	1.81	0.80
1:B:248:ILE:O	1:B:249:LEU:CG	2.30	0.80
1:G:936:GLU:HB3	4:P:37:GLY:N	1.96	0.80
1:C:248:ILE:O	1:C:249:LEU:CG	2.30	0.80
1:D:248:ILE:O	1:D:249:LEU:CG	2.30	0.80
1:J:669:ARG:NH1	1:J:948:ASN:ND2	2.30	0.80
1:F:22:TYR:CZ	1:F:23:LEU:HD21	2.17	0.80
4:P:93:ARG:HG2	4:P:93:ARG:NH2	1.89	0.80
1:B:890:ASN:HD22	1:B:892:LEU:H	1.29	0.80
1:B:521:ALA:HB2	1:C:551:ASN:CB	2.10	0.80
1:K:839:GLN:NE2	1:L:131:PRO:HG2	1.96	0.80
1:K:752:GLY:HA2	1:L:103:ARG:HD2	1.64	0.80
1:H:304:THR:HG22	1:H:306:LYS:H	1.47	0.80
1:G:779:GLY:HA2	1:H:96:ALA:O	1.82	0.80
4:O:55:LEU:HD23	4:O:194:PRO:HB2	1.63	0.80
1:F:669:ARG:HB3	1:G:82:ARG:NH2	1.96	0.80
1:D:8:GLN:HE22	4:P:34:MET:CB	1.95	0.80
1:C:892:LEU:HB3	1:E:950:THR:H	1.46	0.80
1:B:941:ARG:NH2	2:M:108:THR:HG21	1.97	0.80
1:G:22:TYR:CZ	1:G:23:LEU:HD21	2.17	0.80
1:J:22:TYR:CZ	1:J:23:LEU:HD21	2.17	0.80
1:K:777:TYR:CE1	1:L:63:LEU:CD2	2.65	0.80
1:J:237:ALA:HB3	1:J:246:GLN:OE1	1.82	0.80
1:B:237:ALA:HB3	1:B:246:GLN:OE1	1.82	0.80
1:D:237:ALA:HB3	1:D:246:GLN:OE1	1.82	0.80
1:J:779:GLY:HA2	1:K:96:ALA:O	1.81	0.80
1:G:304:THR:HG22	1:G:306:LYS:H	1.47	0.80
1:J:654:PRO:HD2	5:Q:84:PRO:HG3	1.63	0.79
1:D:265:PHE:CD2	1:E:438:TRP:HZ3	2.00	0.79
1:C:22:TYR:CZ	1:C:23:LEU:HD21	2.17	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:890:ASN:HD22	1:I:892:LEU:H	1.29	0.79
1:J:554:TYR:HD1	5:Q:57:LEU:CD2	1.94	0.79
1:D:103:ARG:HD2	1:F:752:GLY:HA2	1.64	0.79
1:G:520:GLY:HA2	1:H:114:PRO:O	1.81	0.79
1:E:839:GLN:HE21	1:F:131:PRO:HG2	1.48	0.79
1:F:948:ASN:HA	1:F:949:ALA:HB3	0.83	0.79
1:A:248:ILE:O	1:A:249:LEU:CG	2.30	0.79
1:H:248:ILE:O	1:H:249:LEU:CG	2.30	0.79
1:D:265:PHE:CD2	1:E:438:TRP:CZ3	2.70	0.79
1:L:248:ILE:O	1:L:249:LEU:CG	2.30	0.79
1:K:248:ILE:O	1:K:249:LEU:CG	2.30	0.79
1:B:940:LEU:N	1:B:947:GLY:HA2	1.96	0.79
4:P:90:VAL:O	4:P:92:PRO:HD3	1.82	0.79
3:N:272:GLU:CG	4:O:61:ILE:HA	2.13	0.79
1:B:427:LYS:HG3	1:B:445:PHE:HD2	1.40	0.79
1:J:521:ALA:CB	1:K:551:ASN:HB3	2.11	0.79
1:I:183:ILE:HG21	1:I:219:ALA:CB	2.10	0.79
1:K:283:VAL:HG21	1:L:453:VAL:HG22	1.63	0.79
1:D:890:ASN:HD22	1:D:892:LEU:H	1.29	0.79
1:I:237:ALA:HB3	1:I:246:GLN:OE1	1.82	0.79
1:L:237:ALA:HB3	1:L:246:GLN:OE1	1.82	0.79
1:K:304:THR:HG22	1:K:306:LYS:H	1.47	0.79
3:N:194:GLN:N	4:O:207:HIS:CG	2.49	0.79
1:F:248:ILE:O	1:F:249:LEU:CG	2.30	0.79
1:K:358:VAL:CG2	4:O:35:SER:OG	2.30	0.79
1:C:740:ASN:HD21	1:E:361:GLN:HB3	1.46	0.79
1:E:22:TYR:CZ	1:E:23:LEU:HD21	2.17	0.79
1:G:5:MET:CE	1:I:894:ALA:HB1	2.12	0.79
3:N:271:ASP:OD2	4:O:61:ILE:CD1	2.31	0.79
1:D:114:PRO:O	1:F:520:GLY:HA2	1.82	0.79
1:A:25:PRO:CD	4:O:201:PHE:O	2.30	0.79
1:D:180:LYS:CE	1:E:430:PRO:CG	2.58	0.79
1:L:247:GLY:O	1:L:248:ILE:CG1	2.28	0.79
1:I:248:ILE:O	1:I:249:LEU:CG	2.30	0.79
1:G:5:MET:SD	1:I:894:ALA:CB	2.69	0.79
2:M:217:LEU:HD12	2:M:232:THR:HG21	1.64	0.79
1:F:347:LEU:HD23	1:F:568:ILE:HG21	1.64	0.79
1:L:8:GLN:OE1	4:O:47:ILE:HG21	1.83	0.79
1:K:945:SER:CB	4:O:30:ARG:N	2.45	0.79
1:G:936:GLU:OE2	4:P:38:PRO:HD2	1.81	0.79
1:C:256:LYS:CA	1:C:257:LEU:O	2.30	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:5:MET:O	1:K:6:MET:CG	2.31	0.79
1:C:737:LEU:HD22	1:C:753:TYR:OH	1.80	0.79
1:B:22:TYR:CZ	1:B:23:LEU:HD21	2.17	0.79
1:L:444:GLU:HB3	1:L:445:PHE:O	1.83	0.79
1:A:283:VAL:HG21	1:B:453:VAL:HG22	1.65	0.79
1:G:659:ALA:N	5:Q:86:ALA:HB1	1.98	0.79
1:C:631:ALA:HB2	4:O:213:ILE:HG12	1.65	0.79
1:K:69:PRO:HG2	1:K:72:ARG:HD3	1.63	0.79
1:L:755:VAL:CG1	1:L:762:LYS:HG2	2.13	0.79
1:A:246:GLN:NE2	1:C:844:ASN:CA	2.46	0.79
1:D:427:LYS:HG3	1:D:445:PHE:HD2	1.40	0.79
1:E:237:ALA:HB3	1:E:246:GLN:OE1	1.82	0.79
1:F:304:THR:HG22	1:F:306:LYS:H	1.47	0.79
1:A:884:LEU:HD23	1:B:49:VAL:HG13	1.64	0.79
1:J:659:ALA:HB1	5:R:134:SER:OG	1.82	0.79
1:K:672:ALA:HB2	1:K:894:ALA:HB2	1.64	0.79
1:K:897:ALA:HB2	4:O:10:MET:HE2	1.54	0.79
1:D:9:TRP:CZ2	1:F:673:ALA:HB2	2.18	0.79
1:H:19:ALA:HB1	1:H:23:LEU:HD11	1.65	0.79
1:G:942:THR:HG22	4:P:29:THR:HA	1.65	0.79
1:L:183:ILE:HG21	1:L:219:ALA:CB	2.10	0.79
1:G:281:PRO:CG	1:H:438:TRP:CZ3	2.66	0.79
1:A:68:ILE:HG12	1:E:73:GLU:CG	2.12	0.79
1:D:755:VAL:CG1	1:D:762:LYS:HG2	2.13	0.79
4:P:92:PRO:O	4:P:93:ARG:CG	2.30	0.79
4:O:159:ARG:CB	4:O:160:PRO:HD3	2.08	0.79
5:R:106:GLN:O	5:R:110:LEU:HD22	1.81	0.79
1:D:521:ALA:HB2	1:E:551:ASN:CB	2.12	0.79
1:C:237:ALA:HB3	1:C:246:GLN:OE1	1.82	0.79
1:C:341:THR:CA	1:K:693:GLY:H	1.96	0.79
1:J:248:ILE:O	1:J:249:LEU:CG	2.30	0.79
1:E:444:GLU:HB3	1:E:445:PHE:O	1.83	0.79
1:G:8:GLN:OE1	1:G:8:GLN:CA	2.31	0.79
1:J:520:GLY:HA3	1:K:114:PRO:HG2	1.63	0.79
1:A:304:THR:HG22	1:A:306:LYS:H	1.47	0.79
1:A:22:TYR:CZ	1:A:23:LEU:HD21	2.17	0.79
1:F:667:PRO:HB2	1:G:70:VAL:CG1	2.04	0.79
1:H:256:LYS:CA	1:H:257:LEU:O	2.30	0.79
1:J:947:GLY:H	1:J:949:ALA:HB2	1.48	0.79
1:J:950:THR:HA	1:J:951:THR:CB	2.06	0.79
2:M:41:VAL:HG11	3:N:64:ALA:O	1.83	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:237:ALA:HB3	1:G:246:GLN:OE1	1.82	0.79
5:S:99:LYS:HD2	5:T:104:LEU:HG	1.65	0.79
1:G:354:LEU:CD1	4:P:35:SER:HA	2.07	0.79
1:B:247:GLY:O	1:B:248:ILE:CG1	2.28	0.79
1:I:256:LYS:CA	1:I:257:LEU:O	2.30	0.79
1:J:257:LEU:CB	1:J:258:GLU:C	2.46	0.79
1:G:755:VAL:CG1	1:G:762:LYS:HG2	2.13	0.79
1:D:22:TYR:CZ	1:D:23:LEU:HD21	2.17	0.79
1:G:19:ALA:HB1	1:G:23:LEU:HD11	1.65	0.79
1:H:444:GLU:HB3	1:H:445:PHE:O	1.83	0.79
1:A:755:VAL:CG1	1:A:762:LYS:HG2	2.13	0.79
1:B:574:LEU:HG	1:B:929:ARG:HE	1.48	0.79
1:E:304:THR:HG22	1:E:306:LYS:H	1.47	0.79
1:K:948:ASN:C	4:O:30:ARG:HH11	1.87	0.78
1:G:673:ALA:HB2	1:H:9:TRP:CZ2	2.18	0.78
1:H:4:SER:HA	4:P:54:ILE:HD12	1.65	0.78
1:G:180:LYS:HE3	1:H:430:PRO:HG3	1.65	0.78
1:B:183:ILE:HG21	1:B:219:ALA:CB	2.10	0.78
1:C:947:GLY:CA	1:K:344:MET:HE2	2.12	0.78
1:I:247:GLY:O	1:I:248:ILE:CG1	2.28	0.78
1:C:4:SER:CB	1:C:11:TYR:CE1	2.66	0.78
1:I:6:MET:CB	1:I:7:PRO:CD	2.43	0.78
1:I:759:ASN:HB3	5:T:50:GLU:CB	2.12	0.78
1:E:777:TYR:CE1	1:F:63:LEU:HD22	2.16	0.78
1:I:574:LEU:HG	1:I:929:ARG:HE	1.48	0.78
1:C:899:ALA:HB1	1:E:667:PRO:HB2	1.65	0.78
1:D:558:HIS:CE1	1:F:751:GLU:O	2.36	0.78
1:B:304:THR:HG22	1:B:306:LYS:H	1.47	0.78
4:O:90:VAL:O	4:O:92:PRO:HD3	1.82	0.78
1:F:348:ALA:CB	1:F:354:LEU:O	2.31	0.78
2:M:39:PRO:HB3	3:N:27:TRP:CE2	2.17	0.78
1:A:59:ARG:HD2	1:E:354:LEU:HD21	1.61	0.78
1:B:229:MET:HE3	1:B:314:MET:HG2	1.63	0.78
1:J:24:SER:HB3	1:L:638:ASN:HD21	1.47	0.78
1:A:853:THR:HG22	1:B:293:GLU:OE1	1.82	0.78
1:H:237:ALA:HB3	1:H:246:GLN:OE1	1.82	0.78
1:C:304:THR:HG22	1:C:306:LYS:H	1.47	0.78
1:E:281:PRO:HD3	1:F:438:TRP:CZ2	2.18	0.78
1:G:256:LYS:CA	1:G:257:LEU:O	2.30	0.78
1:D:19:ALA:HB1	1:D:23:LEU:HD11	1.65	0.78
1:C:444:GLU:HB3	1:C:445:PHE:O	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:890:ASN:HD22	1:E:892:LEU:H	1.30	0.78
1:F:890:ASN:HD22	1:F:892:LEU:H	1.29	0.78
1:H:574:LEU:HG	1:H:929:ARG:HE	1.48	0.78
1:J:574:LEU:HG	1:J:929:ARG:HE	1.48	0.78
1:B:80:LYS:CE	2:M:455:ARG:O	2.31	0.78
2:M:497:ASN:HD21	2:M:500:PRO:HB3	1.49	0.78
1:B:77:TYR:CE1	1:B:693:GLY:O	2.37	0.78
1:C:890:ASN:HD22	1:C:892:LEU:H	1.29	0.78
1:C:948:ASN:N	1:K:344:MET:CE	2.45	0.78
1:D:438:TRP:CH2	1:F:281:PRO:CD	2.66	0.78
1:L:890:ASN:HD22	1:L:892:LEU:H	1.29	0.78
1:F:444:GLU:HB3	1:F:445:PHE:O	1.83	0.78
1:H:839:GLN:NE2	1:I:131:PRO:HG2	1.99	0.78
1:B:80:LYS:HD2	2:M:455:ARG:O	1.82	0.78
1:G:726:SER:CB	1:J:670:ASN:CB	2.62	0.78
1:J:660:THR:N	5:R:130:ALA:HB1	1.99	0.78
1:C:893:TYR:CE1	1:E:950:THR:HA	2.18	0.78
1:J:755:VAL:CG1	1:J:762:LYS:HG2	2.13	0.78
1:H:62:ARG:NE	1:J:354:LEU:HD23	1.97	0.78
1:F:65:LEU:CD1	1:J:727:SER:CB	2.52	0.78
1:L:22:TYR:CZ	1:L:23:LEU:HD21	2.17	0.78
5:T:52:VAL:HG22	5:T:52:VAL:O	1.82	0.78
1:B:777:TYR:CE1	1:C:63:LEU:HD21	2.17	0.78
3:N:272:GLU:N	4:O:61:ILE:HG23	1.98	0.78
1:D:444:GLU:HB3	1:D:445:PHE:O	1.83	0.78
1:A:890:ASN:HD22	1:A:892:LEU:H	1.29	0.78
1:K:574:LEU:HG	1:K:929:ARG:HE	1.48	0.78
1:H:82:ARG:HG3	1:H:581:GLU:HB2	1.65	0.78
4:O:8:PRO:CG	4:O:51:ARG:HH11	1.88	0.78
1:G:892:LEU:HA	4:P:189:ILE:HG12	1.65	0.78
1:H:4:SER:HB3	4:P:54:ILE:HG13	1.66	0.78
1:I:248:ILE:CG2	1:I:249:LEU:N	2.41	0.78
1:B:938:VAL:CG1	1:B:949:ALA:HB2	2.12	0.78
1:D:719:LYS:CD	5:R:22:TRP:CE2	2.65	0.78
1:A:229:MET:HE3	1:A:314:MET:HG2	1.66	0.78
1:I:444:GLU:HB3	1:I:445:PHE:O	1.83	0.78
5:R:135:SER:HB3	5:R:136:PRO:HD3	1.62	0.78
1:E:574:LEU:HG	1:E:929:ARG:HE	1.48	0.78
1:B:73:GLU:HG3	2:M:456:GLN:HE21	1.49	0.78
1:A:82:ARG:HG3	1:A:581:GLU:HB2	1.66	0.78
1:A:59:ARG:NH1	1:E:354:LEU:HG	1.97	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:737:LEU:CD2	1:C:753:TYR:OH	2.32	0.78
1:K:853:THR:HG22	1:L:293:GLU:OE1	1.84	0.78
1:H:697:TYR:HE1	5:S:24:GLY:HA3	1.49	0.78
1:H:755:VAL:CG1	1:H:762:LYS:HG2	2.13	0.78
1:J:635:ASN:CG	4:P:173:THR:CG2	2.52	0.78
1:C:574:LEU:HG	1:C:929:ARG:HE	1.48	0.78
1:D:574:LEU:HG	1:D:929:ARG:HE	1.48	0.78
1:F:82:ARG:HG3	1:F:581:GLU:HB2	1.66	0.78
1:F:183:ILE:HG21	1:F:219:ALA:CB	2.10	0.78
1:D:27:LEU:CB	1:F:632:MET:CE	2.61	0.78
1:F:8:GLN:OE1	1:F:8:GLN:CA	2.31	0.78
1:H:521:ALA:HB2	1:I:551:ASN:CB	2.14	0.78
3:N:193:ARG:HA	4:O:207:HIS:CG	2.19	0.78
1:E:256:LYS:CA	1:E:257:LEU:O	2.30	0.78
1:H:281:PRO:CB	1:I:438:TRP:CZ3	2.66	0.78
1:J:186:GLY:O	1:J:187:VAL:HG13	1.84	0.78
1:I:908:PRO:HG3	5:T:43:ASN:HA	1.66	0.78
1:B:755:VAL:CG1	1:B:762:LYS:HG2	2.13	0.78
1:G:574:LEU:HG	1:G:929:ARG:HE	1.48	0.78
1:E:755:VAL:CG1	1:E:762:LYS:HG2	2.13	0.78
1:F:66:ARG:HH12	1:F:68:ILE:HD11	1.47	0.78
1:L:908:PRO:HG3	5:Q:43:ASN:CA	2.13	0.78
1:D:304:THR:HG22	1:D:306:LYS:H	1.47	0.78
1:A:180:LYS:HE2	1:B:430:PRO:CG	2.13	0.78
1:K:248:ILE:O	1:K:249:LEU:CB	2.33	0.78
1:C:755:VAL:CG1	1:C:762:LYS:HG2	2.13	0.78
1:L:890:ASN:HD21	4:P:103:ASN:ND2	1.82	0.78
1:B:444:GLU:HB3	1:B:445:PHE:O	1.83	0.78
1:H:186:GLY:O	1:H:187:VAL:HG13	1.84	0.78
1:D:293:GLU:OE1	1:F:853:THR:HG22	1.83	0.78
1:K:673:ALA:HB2	1:L:9:TRP:CZ2	2.18	0.78
1:F:947:GLY:O	1:F:948:ASN:CB	2.31	0.77
1:F:897:ALA:HB2	1:G:350:GLN:HB3	1.65	0.77
1:B:429:LYS:C	1:B:438:TRP:HD1	1.88	0.77
1:J:248:ILE:O	1:J:249:LEU:CB	2.32	0.77
1:K:9:TRP:CE2	4:P:16:GLN:HB3	2.19	0.77
1:C:19:ALA:HB1	1:C:23:LEU:HD11	1.65	0.77
1:A:62:ARG:HH21	1:C:737:LEU:HA	0.66	0.77
1:C:740:ASN:O	1:C:741:GLU:CB	2.31	0.77
1:C:737:LEU:CD2	1:C:753:TYR:CZ	2.62	0.77
1:G:186:GLY:O	1:G:187:VAL:HG13	1.85	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:755:VAL:CG1	1:K:762:LYS:HG2	2.13	0.77
1:J:304:THR:HG22	1:J:306:LYS:H	1.47	0.77
1:D:82:ARG:HG3	1:D:581:GLU:HB2	1.66	0.77
1:A:574:LEU:HG	1:A:929:ARG:HE	1.48	0.77
1:H:5:MET:HG3	1:H:5:MET:O	1.84	0.77
1:G:895:ASN:ND2	4:P:189:ILE:HG22	1.99	0.77
1:H:248:ILE:O	1:H:249:LEU:CB	2.32	0.77
1:F:248:ILE:O	1:F:249:LEU:CB	2.33	0.77
1:J:256:LYS:HA	1:J:257:LEU:C	2.03	0.77
1:K:259:SER:O	1:K:260:GLN:CG	2.33	0.77
1:A:68:ILE:HG23	1:E:71:ASP:HB3	1.63	0.77
1:E:638:ASN:CG	1:F:27:LEU:CD1	2.47	0.77
1:F:13:HIS:CE1	1:F:22:TYR:CG	2.73	0.77
1:E:13:HIS:CE1	1:E:22:TYR:CG	2.73	0.77
1:D:719:LYS:HD3	5:R:22:TRP:CE2	2.18	0.77
1:E:186:GLY:O	1:E:187:VAL:HG13	1.84	0.77
1:D:25:PRO:CG	4:P:202:SER:HB3	2.14	0.77
1:F:755:VAL:CG1	1:F:762:LYS:HG2	2.13	0.77
1:E:259:SER:O	1:E:260:GLN:CG	2.32	0.77
1:A:248:ILE:O	1:A:249:LEU:CB	2.33	0.77
1:J:259:SER:O	1:J:260:GLN:CG	2.33	0.77
1:K:19:ALA:HB1	1:K:23:LEU:HD11	1.65	0.77
1:G:132:CYS:SG	1:G:229:MET:HE3	2.24	0.77
1:L:13:HIS:CE1	1:L:22:TYR:CG	2.72	0.77
1:C:186:GLY:O	1:C:187:VAL:HG13	1.85	0.77
1:A:842:PRO:HG2	1:B:246:GLN:HE22	1.49	0.77
1:C:82:ARG:HG3	1:C:581:GLU:HB2	1.66	0.77
2:M:274:THR:HG22	2:M:275:TYR:H	1.49	0.77
1:F:608:LYS:HE2	5:T:99:LYS:HB3	1.66	0.77
1:A:256:LYS:HA	1:A:257:LEU:C	2.03	0.77
1:F:256:LYS:CA	1:F:257:LEU:O	2.30	0.77
1:H:180:LYS:HE3	1:I:430:PRO:HG3	1.64	0.77
2:M:39:PRO:HG3	3:N:27:TRP:HB2	1.65	0.77
1:C:13:HIS:CE1	1:C:22:TYR:CG	2.73	0.77
1:G:24:SER:CB	1:I:638:ASN:ND2	2.33	0.77
1:J:13:HIS:CE1	1:J:22:TYR:CG	2.73	0.77
1:A:444:GLU:HB3	1:A:445:PHE:O	1.83	0.77
1:D:445:PHE:HZ	1:F:264:GLN:NE2	1.82	0.77
1:I:755:VAL:CG1	1:I:762:LYS:HG2	2.13	0.77
1:A:430:PRO:HG3	1:C:180:LYS:HE2	1.65	0.77
1:E:82:ARG:HG3	1:E:581:GLU:HB2	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:13:HIS:CE1	1:A:22:TYR:CG	2.73	0.77
1:G:947:GLY:O	1:G:948:ASN:CG	2.23	0.77
1:H:13:HIS:CE1	1:H:22:TYR:CG	2.73	0.77
4:P:51:ARG:O	4:P:54:ILE:CG1	2.28	0.77
1:K:891:LEU:HD23	1:L:2:THR:CG2	2.13	0.77
1:C:341:THR:C	1:K:693:GLY:H	1.88	0.77
1:K:256:LYS:CA	1:K:257:LEU:O	2.30	0.77
1:G:444:GLU:HB3	1:G:445:PHE:O	1.83	0.77
1:A:751:GLU:O	1:B:558:HIS:CE1	2.37	0.77
1:A:673:ALA:HB2	1:B:9:TRP:CZ2	2.19	0.77
1:B:341:THR:HG21	2:M:538:VAL:CG2	2.14	0.77
1:G:82:ARG:HG3	1:G:581:GLU:HB2	1.66	0.77
1:B:256:LYS:HA	1:B:257:LEU:C	2.03	0.77
1:G:248:ILE:O	1:G:249:LEU:CB	2.33	0.77
1:I:248:ILE:O	1:I:249:LEU:CB	2.33	0.77
1:J:229:MET:HE3	1:J:314:MET:HG2	1.63	0.77
1:F:132:CYS:SG	1:F:229:MET:HE3	2.22	0.77
1:I:13:HIS:CE1	1:I:22:TYR:CG	2.73	0.77
1:K:444:GLU:HB3	1:K:445:PHE:O	1.83	0.77
1:H:777:TYR:CE1	1:I:63:LEU:HD21	2.19	0.77
1:H:589:ASN:ND2	1:H:601:ARG:NH1	2.33	0.77
1:B:283:VAL:HG21	1:C:453:VAL:HG22	1.65	0.77
1:J:551:ASN:CB	1:L:521:ALA:HB2	2.13	0.77
1:A:754:ASN:O	1:B:558:HIS:CE1	2.37	0.77
1:C:725:ASP:OD1	1:E:669:ARG:CB	2.32	0.77
1:G:119:ALA:HB2	1:I:519:LEU:HD12	1.65	0.77
4:O:7:THR:CB	4:O:25:GLN:HG2	2.14	0.77
1:A:88:GLY:HA3	1:E:353:GLN:CB	2.15	0.77
1:H:4:SER:CA	4:P:54:ILE:HD12	2.13	0.77
1:C:890:ASN:ND2	1:C:892:LEU:HB2	1.99	0.77
1:E:949:ALA:H	1:E:950:THR:CB	1.96	0.77
1:C:947:GLY:C	1:K:344:MET:HE1	2.03	0.77
1:B:947:GLY:O	1:B:948:ASN:CB	2.32	0.77
1:K:186:GLY:O	1:K:187:VAL:HG13	1.84	0.77
1:B:82:ARG:HG3	1:B:581:GLU:HB2	1.66	0.77
1:A:520:GLY:HA2	1:B:114:PRO:O	1.85	0.77
1:C:635:ASN:ND2	4:O:25:GLN:HE22	1.83	0.77
1:C:259:SER:O	1:C:260:GLN:CG	2.33	0.77
1:K:13:HIS:CE1	1:K:22:TYR:CG	2.73	0.77
1:A:425:LEU:HD22	1:C:267:SER:O	1.85	0.77
1:G:727:SER:CB	4:P:15:PRO:HB3	2.06	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:861:LYS:HB3	5:Q:50:GLU:OE2	1.84	0.77
1:B:248:ILE:CG2	1:B:249:LEU:N	2.41	0.77
1:G:259:SER:O	1:G:260:GLN:CG	2.33	0.77
1:J:890:ASN:ND2	1:J:892:LEU:HB3	1.99	0.77
1:K:68:ILE:CG2	1:K:69:PRO:CD	2.62	0.77
1:D:13:HIS:CE1	1:D:22:TYR:CG	2.73	0.77
1:H:285:LEU:HD11	1:I:451:ILE:HD13	1.66	0.77
1:J:444:GLU:HB3	1:J:445:PHE:O	1.83	0.77
1:A:186:GLY:O	1:A:187:VAL:HG13	1.84	0.77
1:I:186:GLY:O	1:I:187:VAL:HG13	1.85	0.77
2:M:80:ALA:O	2:M:81:SER:HB3	1.84	0.77
1:E:859:THR:OG1	1:F:556:PRO:HD2	1.85	0.77
1:G:839:GLN:HE21	1:H:131:PRO:HG2	1.49	0.77
1:E:520:GLY:HA2	1:F:114:PRO:O	1.85	0.77
1:G:884:LEU:CD2	1:G:922:PHE:CZ	2.67	0.77
1:A:180:LYS:HE3	1:B:430:PRO:CG	2.14	0.77
1:G:13:HIS:CE1	1:G:22:TYR:CG	2.73	0.77
1:B:737:LEU:C	1:C:62:ARG:HH21	1.88	0.77
1:L:574:LEU:HG	1:L:929:ARG:HE	1.48	0.77
1:L:82:ARG:HG3	1:L:581:GLU:HB2	1.66	0.77
1:G:670:ASN:N	4:P:10:MET:CE	2.48	0.76
1:D:438:TRP:CH2	1:F:281:PRO:HD3	2.19	0.76
1:J:889:GLN:CG	1:K:52:THR:HG21	2.15	0.76
1:K:5:MET:O	1:K:6:MET:CB	2.32	0.76
1:C:737:LEU:HB3	1:C:753:TYR:OH	1.84	0.76
1:I:5:MET:O	1:I:6:MET:HB2	1.84	0.76
1:B:186:GLY:O	1:B:187:VAL:HG13	1.84	0.76
1:B:737:LEU:CB	1:B:753:TYR:CE2	2.69	0.76
1:D:49:VAL:HG13	1:F:884:LEU:HD23	1.66	0.76
1:A:19:ALA:HB1	1:A:23:LEU:HD11	1.65	0.76
1:I:950:THR:CG2	1:I:950:THR:O	2.30	0.76
1:C:3:PRO:CB	2:M:115:ASP:HB2	2.06	0.76
1:L:256:LYS:HA	1:L:257:LEU:C	2.03	0.76
1:K:354:LEU:CD1	4:O:35:SER:HA	2.14	0.76
1:D:430:PRO:HG3	1:F:180:LYS:HE3	1.61	0.76
1:A:68:ILE:CG2	1:E:73:GLU:HG2	2.15	0.76
1:G:229:MET:HE3	1:G:314:MET:HG2	1.66	0.76
1:L:890:ASN:HD21	4:P:103:ASN:CG	1.87	0.76
1:B:13:HIS:CE1	1:B:22:TYR:CG	2.73	0.76
1:H:890:ASN:HD22	1:H:892:LEU:H	1.29	0.76
1:D:752:GLY:HA2	1:E:103:ARG:HD2	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:928:HIS:ND1	4:O:30:ARG:NH2	2.31	0.76
1:F:937:THR:O	1:F:950:THR:C	2.24	0.76
1:J:59:ARG:CB	4:P:108:LEU:CD1	2.53	0.76
1:C:670:ASN:HB2	1:K:353:GLN:CD	2.05	0.76
1:G:853:THR:HG22	1:H:293:GLU:OE1	1.85	0.76
1:D:186:GLY:O	1:D:187:VAL:HG13	1.84	0.76
1:G:726:SER:OG	1:J:670:ASN:CB	2.33	0.76
1:L:248:ILE:O	1:L:249:LEU:CB	2.33	0.76
1:G:721:ALA:CB	1:J:947:GLY:HA3	2.14	0.76
1:A:132:CYS:SG	1:A:229:MET:HE3	2.24	0.76
1:A:229:MET:HE1	1:A:314:MET:CG	2.05	0.76
1:C:88:GLY:HA3	4:O:226:TYR:CE1	2.21	0.76
1:F:186:GLY:O	1:F:187:VAL:HG13	1.84	0.76
1:K:82:ARG:HG3	1:K:581:GLU:HB2	1.66	0.76
1:F:574:LEU:HG	1:F:929:ARG:HE	1.48	0.76
1:K:672:ALA:CB	1:K:894:ALA:HB2	2.15	0.76
1:D:256:LYS:CA	1:D:257:LEU:O	2.30	0.76
1:D:638:ASN:ND2	1:E:24:SER:HB3	1.94	0.76
1:I:751:GLU:HA	1:I:754:ASN:HD22	1.50	0.76
1:B:19:ALA:HB1	1:B:23:LEU:HD11	1.65	0.76
1:K:777:TYR:CE1	1:L:63:LEU:HD22	2.19	0.76
1:J:131:PRO:HG2	1:L:839:GLN:NE2	1.99	0.76
1:D:131:PRO:HG2	1:F:839:GLN:NE2	1.99	0.76
1:G:12:MET:HE1	1:I:938:VAL:O	1.85	0.76
1:E:950:THR:O	1:E:950:THR:CG2	2.33	0.76
1:A:433:GLY:C	1:A:437:GLY:CA	2.52	0.76
5:Q:111:THR:HG21	5:T:110:LEU:HG	1.68	0.76
1:J:24:SER:CB	1:L:638:ASN:HD21	1.98	0.76
5:Q:96:ARG:NH2	5:R:136:PRO:HG2	2.00	0.76
1:J:811:LYS:HD3	5:S:126:GLN:NE2	1.99	0.76
1:G:928:HIS:HE1	4:P:39:HIS:ND1	1.82	0.76
1:H:180:LYS:HE2	1:I:430:PRO:CG	2.09	0.76
1:F:5:MET:O	1:F:6:MET:HB2	1.84	0.76
1:E:283:VAL:HG21	1:F:453:VAL:HG22	1.67	0.76
1:E:521:ALA:HB2	1:F:551:ASN:CB	2.15	0.76
1:G:842:PRO:HG2	1:H:246:GLN:HE22	1.50	0.76
1:K:520:GLY:HA3	1:L:114:PRO:HG2	1.68	0.76
1:J:202:GLU:OE1	1:L:820:HIS:HD2	1.68	0.76
1:L:5:MET:HE1	4:O:29:THR:HB	1.67	0.76
1:G:890:ASN:HD22	1:G:892:LEU:H	1.29	0.76
1:C:728:VAL:CG2	1:E:948:ASN:H	1.98	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:248:ILE:O	1:E:249:LEU:CB	2.33	0.76
1:D:63:LEU:HD22	1:F:777:TYR:CE1	2.14	0.76
1:K:942:THR:HB	4:O:29:THR:CB	2.16	0.76
1:F:627:SER:OG	4:P:213:ILE:HD13	1.86	0.76
1:A:248:ILE:CG2	1:A:249:LEU:N	2.41	0.76
1:K:693:GLY:O	1:K:694:TYR:CB	2.33	0.76
2:M:39:PRO:CG	3:N:27:TRP:HB3	2.13	0.76
1:F:19:ALA:HB1	1:F:23:LEU:HD11	1.65	0.76
1:L:186:GLY:O	1:L:187:VAL:HG13	1.84	0.76
1:D:25:PRO:HD2	4:P:202:SER:CB	2.16	0.76
1:I:737:LEU:CB	1:I:753:TYR:CE2	2.69	0.76
3:N:277:GLU:O	3:N:281:VAL:HG22	1.86	0.76
1:D:5:MET:O	1:D:6:MET:HB2	1.84	0.76
1:F:931:HIS:HD1	4:P:27:TYR:HE2	1.33	0.76
1:B:256:LYS:CA	1:B:257:LEU:O	2.30	0.76
1:K:62:ARG:HB2	1:K:65:LEU:HD21	1.67	0.76
1:D:737:LEU:C	1:E:62:ARG:HH21	1.88	0.76
1:G:96:ALA:O	1:I:779:GLY:HA2	1.85	0.76
1:H:8:GLN:HG3	4:P:31:ILE:CG1	2.14	0.75
4:P:33:TYR:HD2	4:P:48:ARG:HH12	1.32	0.75
1:C:248:ILE:O	1:C:249:LEU:CB	2.33	0.75
1:K:725:ASP:OD2	4:O:14:GLN:HA	1.87	0.75
1:H:673:ALA:HB2	1:I:9:TRP:CZ2	2.21	0.75
4:O:183:ILE:HG23	4:O:187:GLN:HB3	1.68	0.75
1:I:82:ARG:HG3	1:I:581:GLU:HB2	1.66	0.75
1:A:25:PRO:HB2	4:O:203:GLY:N	1.99	0.75
1:G:256:LYS:HA	1:G:257:LEU:C	2.03	0.75
1:D:754:ASN:O	1:E:558:HIS:CE1	2.40	0.75
1:D:908:PRO:HG3	5:R:43:ASN:C	2.05	0.75
1:K:891:LEU:HB2	4:O:189:ILE:HG21	1.67	0.75
1:E:726:SER:O	1:E:727:SER:HB3	1.84	0.75
1:F:59:ARG:NH2	1:J:733:ASN:HD21	1.83	0.75
1:C:739:PRO:N	1:E:341:THR:HB	2.01	0.75
1:J:5:MET:O	1:J:6:MET:HB2	1.84	0.75
1:H:659:ALA:HA	5:S:11:VAL:CG2	2.15	0.75
1:B:581:GLU:OE2	2:M:455:ARG:HB2	1.86	0.75
1:H:301:TYR:CZ	1:I:208:SER:HB3	2.22	0.75
1:F:635:ASN:HA	4:P:25:GLN:NE2	2.01	0.75
1:H:259:SER:O	1:H:260:GLN:CG	2.33	0.75
1:A:281:PRO:CD	1:B:438:TRP:CZ3	2.69	0.75
1:C:256:LYS:HA	1:C:257:LEU:C	2.03	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:343:ASN:OD1	1:K:696:PRO:HG3	1.85	0.75
1:G:663:PRO:HG3	1:J:667:PRO:HG3	1.69	0.75
1:B:248:ILE:O	1:B:249:LEU:CB	2.33	0.75
1:D:256:LYS:HA	1:D:257:LEU:C	2.03	0.75
1:J:891:LEU:CD2	4:P:72:ARG:NH1	2.50	0.75
1:I:861:LYS:HE2	5:T:50:GLU:OE2	1.86	0.75
1:I:19:ALA:HB1	1:I:23:LEU:HD11	1.65	0.75
1:G:5:MET:O	1:G:6:MET:HB2	1.84	0.75
3:N:271:ASP:HB3	4:O:61:ILE:HD13	1.63	0.75
1:A:267:SER:O	1:B:425:LEU:HD22	1.86	0.75
1:E:751:GLU:O	1:F:558:HIS:CE1	2.40	0.75
1:C:632:MET:HA	4:O:201:PHE:CE2	2.21	0.75
3:N:194:GLN:CA	4:O:207:HIS:HB3	2.16	0.75
3:N:194:GLN:NE2	4:O:211:GLN:HE21	1.84	0.75
1:H:3:PRO:HB2	4:P:54:ILE:CB	2.11	0.75
1:E:256:LYS:HA	1:E:257:LEU:C	2.03	0.75
1:F:437:GLY:C	1:F:438:TRP:HD1	1.90	0.75
4:O:36:ALA:HB1	4:O:40:MET:HG3	1.69	0.75
1:C:5:MET:C	1:C:6:MET:HG2	2.06	0.75
1:J:132:CYS:SG	1:J:229:MET:HE3	2.27	0.75
2:M:48:PRO:HD3	3:N:106:ASN:O	1.87	0.75
1:I:908:PRO:HG3	5:T:43:ASN:CA	2.16	0.75
1:H:737:LEU:C	1:I:62:ARG:HH21	1.89	0.75
1:B:73:GLU:CB	2:M:456:GLN:NE2	2.49	0.75
1:D:445:PHE:HA	1:F:165:THR:O	1.86	0.75
1:J:697:TYR:HE2	5:Q:75:ILE:CG2	1.99	0.75
1:D:842:PRO:HG2	1:E:246:GLN:HE22	1.50	0.75
1:D:908:PRO:HG3	5:R:43:ASN:HA	1.67	0.75
1:D:673:ALA:HB2	1:E:9:TRP:CZ2	2.21	0.75
1:E:180:LYS:CE	1:F:430:PRO:CG	2.60	0.75
1:I:437:GLY:C	1:I:438:TRP:HD1	1.90	0.75
1:D:248:ILE:O	1:D:249:LEU:CB	2.33	0.75
1:D:430:PRO:CG	1:F:180:LYS:HE3	2.13	0.75
1:K:9:TRP:CD2	4:P:16:GLN:HB3	2.21	0.75
1:A:941:ARG:HD2	1:A:944:PHE:O	1.87	0.75
2:M:51:GLY:O	2:M:114:ASP:HB3	1.87	0.75
1:G:520:GLY:HA3	1:H:114:PRO:HG2	1.68	0.75
1:G:114:PRO:O	1:I:520:GLY:HA2	1.87	0.75
1:F:691:GLY:C	1:G:77:TYR:HE2	1.89	0.75
1:J:114:PRO:O	1:L:520:GLY:HA2	1.87	0.75
1:D:8:GLN:NE2	4:P:34:MET:CA	2.49	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:P:51:ARG:HA	4:P:54:ILE:CD1	2.16	0.75
1:C:893:TYR:OH	1:E:950:THR:CG2	2.35	0.75
1:G:248:ILE:CG2	1:G:249:LEU:N	2.41	0.75
1:H:66:ARG:O	1:J:353:GLN:HB3	1.86	0.75
1:J:19:ALA:HB1	1:J:23:LEU:HD11	1.65	0.75
1:L:19:ALA:CA	1:L:23:LEU:HG	2.17	0.75
1:E:264:GLN:O	1:E:266:PHE:CE1	2.39	0.75
1:I:908:PRO:HG3	5:T:43:ASN:C	2.07	0.75
1:B:77:TYR:CD1	1:B:693:GLY:O	2.39	0.75
1:A:19:ALA:CA	1:A:23:LEU:HG	2.17	0.74
1:C:637:THR:HG21	4:O:200:PRO:HG2	1.66	0.74
1:A:259:SER:O	1:A:260:GLN:CG	2.33	0.74
1:C:8:GLN:OE1	1:C:8:GLN:N	2.19	0.74
3:N:143:LEU:HD21	3:N:169:ARG:HD3	1.69	0.74
1:E:752:GLY:HA2	1:F:103:ARG:HD2	1.69	0.74
1:F:669:ARG:HB2	1:G:82:ARG:HH22	1.53	0.74
1:K:8:GLN:OE1	1:K:8:GLN:CA	2.34	0.74
1:G:895:ASN:ND2	4:P:189:ILE:CG2	2.50	0.74
1:A:281:PRO:HD3	1:B:438:TRP:CE3	2.21	0.74
1:L:259:SER:O	1:L:260:GLN:CG	2.33	0.74
1:I:256:LYS:HA	1:I:257:LEU:C	2.03	0.74
4:P:183:ILE:HG23	4:P:187:GLN:HB3	1.68	0.74
1:C:13:HIS:CE1	1:C:22:TYR:CE2	2.76	0.74
1:J:554:TYR:CD1	5:Q:57:LEU:CD2	2.70	0.74
1:E:737:LEU:HB3	1:E:753:TYR:HE2	1.49	0.74
1:D:208:SER:HB3	1:F:301:TYR:CZ	2.22	0.74
1:I:413:CYS:SG	1:I:459:MET:HB2	2.28	0.74
1:H:4:SER:CB	4:P:54:ILE:HG13	2.17	0.74
1:G:891:LEU:HB3	4:P:189:ILE:CG2	2.17	0.74
1:C:892:LEU:HD23	1:E:949:ALA:O	1.87	0.74
1:J:430:PRO:CG	1:L:180:LYS:HE2	2.09	0.74
1:J:19:ALA:CA	1:J:23:LEU:HG	2.18	0.74
1:C:264:GLN:O	1:C:266:PHE:CE1	2.41	0.74
1:D:551:ASN:HB3	1:F:521:ALA:CB	2.17	0.74
1:K:942:THR:HB	4:O:29:THR:CG2	2.17	0.74
4:O:208:TYR:HB2	4:O:209:PRO:CD	2.16	0.74
1:G:884:LEU:CD2	1:G:922:PHE:CE2	2.69	0.74
1:C:892:LEU:HB3	1:E:950:THR:N	2.02	0.74
1:B:259:SER:O	1:B:260:GLN:CG	2.33	0.74
1:C:948:ASN:CA	1:C:949:ALA:CB	2.36	0.74
1:J:669:ARG:HH12	1:J:948:ASN:ND2	1.85	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:62:ARG:NE	1:J:354:LEU:CD2	2.50	0.74
1:F:19:ALA:CA	1:F:23:LEU:HG	2.17	0.74
1:B:948:ASN:O	1:B:949:ALA:HB2	1.87	0.74
1:C:8:GLN:CA	1:C:8:GLN:OE1	2.34	0.74
1:E:19:ALA:CA	1:E:23:LEU:HG	2.17	0.74
1:L:13:HIS:CE1	1:L:22:TYR:CE2	2.76	0.74
1:G:876:SER:HB3	1:H:56:THR:CG2	2.12	0.74
2:M:155:LYS:HB2	2:M:158:GLN:HB2	1.69	0.74
1:G:246:GLN:HE22	1:I:842:PRO:HG2	1.53	0.74
1:J:640:GLN:HE22	1:J:929:ARG:HH22	1.35	0.74
1:B:520:GLY:HA3	1:C:114:PRO:HG2	1.70	0.74
1:C:727:SER:HB3	1:E:944:PHE:CD2	2.22	0.74
1:F:341:THR:C	1:G:693:GLY:H	1.90	0.74
1:H:638:ASN:HD21	1:I:24:SER:CB	2.00	0.74
1:H:589:ASN:ND2	1:H:601:ARG:HH11	1.84	0.74
1:G:777:TYR:CE1	1:H:63:LEU:CD2	2.70	0.74
1:K:945:SER:CB	4:O:30:ARG:H	2.01	0.74
1:A:249:LEU:HD23	1:A:257:LEU:CD1	2.16	0.74
1:G:431:LYS:O	1:G:432:THR:CB	2.34	0.74
1:F:256:LYS:HA	1:F:257:LEU:C	2.03	0.74
1:D:259:SER:O	1:D:260:GLN:CG	2.33	0.74
1:A:68:ILE:HG12	1:E:73:GLU:CA	2.17	0.74
1:F:13:HIS:CE1	1:F:22:TYR:CE2	2.76	0.74
1:I:741:GLU:OE2	5:T:22:TRP:NE1	2.21	0.74
1:K:896:SER:CB	4:O:11:TRP:O	2.28	0.74
1:I:13:HIS:CE1	1:I:22:TYR:CE2	2.76	0.74
1:G:551:ASN:HB3	1:I:521:ALA:CB	2.16	0.74
1:B:839:GLN:NE2	1:C:131:PRO:HG2	2.02	0.74
1:D:114:PRO:HG2	1:F:520:GLY:HA3	1.69	0.74
1:G:413:CYS:SG	1:G:459:MET:HB2	2.28	0.74
1:H:413:CYS:SG	1:H:459:MET:HB2	2.28	0.74
1:F:413:CYS:SG	1:F:459:MET:HB2	2.28	0.74
1:B:519:LEU:HD12	1:C:119:ALA:HB2	1.70	0.74
1:K:897:ALA:HB2	4:O:10:MET:CB	2.18	0.74
1:K:669:ARG:NH1	4:O:28:SER:HB3	2.02	0.74
1:J:660:THR:CB	5:R:130:ALA:HB1	2.03	0.74
4:P:208:TYR:HB2	4:P:209:PRO:CD	2.16	0.74
1:C:937:THR:O	1:C:950:THR:C	2.26	0.74
1:C:948:ASN:HD21	1:C:950:THR:CG2	1.99	0.74
1:A:69:PRO:HG2	1:A:72:ARG:HD3	1.70	0.74
1:E:5:MET:O	1:E:6:MET:HB2	1.84	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:19:ALA:HB1	1:L:23:LEU:HD11	1.65	0.74
1:H:842:PRO:HG2	1:I:246:GLN:HE22	1.52	0.74
1:A:737:LEU:CB	1:A:753:TYR:CE2	2.68	0.74
5:R:49:TYR:C	5:R:49:TYR:CD1	2.61	0.74
1:J:659:ALA:CB	5:R:134:SER:OG	2.36	0.74
1:G:114:PRO:HG2	1:I:520:GLY:HA3	1.68	0.74
1:K:413:CYS:SG	1:K:459:MET:HB2	2.28	0.74
1:L:7:PRO:HB2	4:O:47:ILE:CG2	2.08	0.74
3:N:294:GLU:HB3	4:O:58:GLN:HE21	1.53	0.74
1:E:259:SER:C	1:E:260:GLN:HG2	2.08	0.74
1:A:256:LYS:CA	1:A:257:LEU:O	2.30	0.74
1:C:248:ILE:O	1:C:249:LEU:HG	1.88	0.74
1:E:13:HIS:CE1	1:E:22:TYR:CE2	2.76	0.74
1:J:63:LEU:HD21	1:L:777:TYR:CE1	2.22	0.74
1:A:521:ALA:CB	1:B:551:ASN:HB3	2.16	0.74
1:A:301:TYR:CZ	1:B:208:SER:HB3	2.23	0.74
1:E:413:CYS:SG	1:E:459:MET:HB2	2.28	0.74
1:H:19:ALA:CA	1:H:23:LEU:HG	2.17	0.74
1:H:5:MET:HB2	4:P:51:ARG:HG3	1.69	0.74
1:C:948:ASN:O	1:K:344:MET:CE	2.35	0.74
1:I:259:SER:O	1:I:260:GLN:CG	2.33	0.74
1:J:248:ILE:O	1:J:249:LEU:HG	1.88	0.74
1:J:259:SER:C	1:J:260:GLN:HG2	2.08	0.74
1:K:249:LEU:HD23	1:K:257:LEU:CD1	2.16	0.74
1:K:259:SER:C	1:K:260:GLN:HG2	2.08	0.74
1:E:69:PRO:HG2	1:E:72:ARG:HD3	1.70	0.74
1:K:13:HIS:CE1	1:K:22:TYR:CE2	2.76	0.74
3:N:271:ASP:HB2	4:O:61:ILE:HD13	1.68	0.74
1:G:69:PRO:HG2	1:G:72:ARG:HD3	1.70	0.74
1:C:75:THR:HB	1:K:697:TYR:HE2	1.52	0.74
1:J:519:LEU:HD12	1:K:119:ALA:HB2	1.68	0.74
1:D:519:LEU:HD12	1:E:119:ALA:HB2	1.70	0.74
1:J:119:ALA:HB2	1:L:519:LEU:HD12	1.70	0.74
1:J:820:HIS:HD2	1:K:202:GLU:OE1	1.71	0.74
1:A:413:CYS:SG	1:A:459:MET:HB2	2.28	0.74
1:A:13:HIS:CE1	1:A:22:TYR:CE2	2.76	0.74
1:G:897:ALA:C	1:G:898:HIS:CG	2.60	0.74
1:C:249:LEU:HD23	1:C:257:LEU:CD1	2.16	0.74
1:F:60:SER:H	1:K:60:SER:HB2	1.52	0.74
1:B:132:CYS:SG	1:B:229:MET:HE3	2.27	0.74
1:I:19:ALA:CB	1:I:23:LEU:CD1	2.62	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:839:GLN:NE2	1:B:131:PRO:HG2	2.03	0.74
1:A:520:GLY:HA3	1:B:114:PRO:HG2	1.68	0.74
1:G:947:GLY:O	1:G:948:ASN:ND2	2.21	0.73
1:B:259:SER:C	1:B:260:GLN:HG2	2.08	0.73
1:K:66:ARG:HD3	1:K:615:TYR:CZ	2.22	0.73
1:I:69:PRO:HG2	1:I:72:ARG:HD3	1.70	0.73
1:D:246:GLN:HE22	1:F:842:PRO:HG2	1.52	0.73
1:C:413:CYS:SG	1:C:459:MET:HB2	2.27	0.73
1:H:13:HIS:CE1	1:H:22:TYR:CE2	2.76	0.73
1:H:259:SER:C	1:H:260:GLN:HG2	2.08	0.73
1:A:431:LYS:O	1:A:432:THR:CB	2.34	0.73
1:L:256:LYS:CA	1:L:257:LEU:O	2.30	0.73
1:C:341:THR:O	1:K:693:GLY:N	2.20	0.73
1:D:13:HIS:CE1	1:D:22:TYR:CE2	2.76	0.73
1:J:13:HIS:CE1	1:J:22:TYR:CE2	2.76	0.73
1:G:427:LYS:HG3	1:G:445:PHE:HD2	1.40	0.73
1:C:353:GLN:HG3	1:K:651:MET:HE3	1.70	0.73
1:L:413:CYS:SG	1:L:459:MET:HB2	2.27	0.73
1:G:940:LEU:HD22	4:P:31:ILE:HG12	1.70	0.73
1:K:891:LEU:CB	4:O:189:ILE:CG2	2.66	0.73
1:B:431:LYS:O	1:B:432:THR:CB	2.34	0.73
1:F:259:SER:O	1:F:260:GLN:CG	2.33	0.73
1:D:431:LYS:O	1:D:432:THR:CB	2.34	0.73
1:K:725:ASP:OD2	4:O:15:PRO:CD	2.35	0.73
1:B:19:ALA:CA	1:B:23:LEU:HG	2.17	0.73
1:H:687:THR:O	5:S:26:ARG:CZ	2.37	0.73
1:D:264:GLN:O	1:D:266:PHE:CE1	2.41	0.73
1:K:521:ALA:CB	1:L:551:ASN:HB3	2.17	0.73
1:H:601:ARG:HB2	5:S:32:SER:HG	1.52	0.73
1:J:751:GLU:O	1:K:558:HIS:CE1	2.42	0.73
1:L:908:PRO:HG3	5:Q:43:ASN:C	2.07	0.73
1:D:520:GLY:HA2	1:E:114:PRO:O	1.88	0.73
1:K:942:THR:HB	4:O:29:THR:HA	1.70	0.73
1:I:948:ASN:CG	1:I:949:ALA:HB2	2.09	0.73
1:I:949:ALA:H	1:I:950:THR:CB	1.97	0.73
1:L:860:GLN:NE2	5:Q:49:TYR:HE2	1.85	0.73
1:L:259:SER:C	1:L:260:GLN:HG2	2.08	0.73
1:J:895:ASN:HD22	1:J:896:SER:H	0.76	0.73
1:K:248:ILE:O	1:K:249:LEU:HG	1.88	0.73
1:D:19:ALA:CA	1:D:23:LEU:HG	2.17	0.73
1:C:19:ALA:CA	1:C:23:LEU:HG	2.17	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:19:ALA:CA	1:K:23:LEU:HG	2.17	0.73
1:I:19:ALA:CA	1:I:23:LEU:HG	2.17	0.73
1:L:69:PRO:HG2	1:L:72:ARG:HD3	1.70	0.73
1:L:640:GLN:HE22	1:L:929:ARG:HH22	1.34	0.73
1:D:558:HIS:CE1	1:F:754:ASN:O	2.41	0.73
1:H:520:GLY:HA2	1:I:114:PRO:O	1.88	0.73
1:K:874:PHE:CZ	1:K:893:TYR:OH	2.40	0.73
1:E:248:ILE:O	1:E:249:LEU:HG	1.88	0.73
1:J:432:THR:CG2	1:J:439:GLU:CG	2.38	0.73
1:L:248:ILE:O	1:L:249:LEU:HG	1.88	0.73
1:C:341:THR:C	1:K:693:GLY:N	2.41	0.73
1:I:5:MET:O	1:I:6:MET:CB	2.37	0.73
1:K:723:THR:CG2	1:K:727:SER:H	2.02	0.73
2:M:48:PRO:N	3:N:106:ASN:CB	2.51	0.73
1:E:858:ILE:CD1	5:Q:112:ARG:NH2	2.45	0.73
1:J:554:TYR:CD1	5:Q:57:LEU:HD22	2.23	0.73
1:H:640:GLN:HE22	1:H:929:ARG:HH22	1.34	0.73
1:F:737:LEU:CB	1:F:753:TYR:CE2	2.69	0.73
1:H:876:SER:HB2	1:I:56:THR:HG21	1.70	0.73
5:R:40:LEU:HD13	5:R:46:THR:HG23	1.70	0.73
1:K:891:LEU:HD21	1:L:2:THR:HG22	1.70	0.73
1:G:281:PRO:CB	1:H:438:TRP:CZ3	2.71	0.73
1:F:248:ILE:O	1:F:249:LEU:HG	1.88	0.73
1:J:82:ARG:HG3	1:J:581:GLU:HB2	1.71	0.73
1:D:24:SER:OG	1:D:27:LEU:HB3	1.88	0.73
1:G:19:ALA:CA	1:G:23:LEU:HG	2.17	0.73
1:A:264:GLN:O	1:A:266:PHE:CE1	2.41	0.73
1:G:62:ARG:HH21	1:I:737:LEU:C	1.90	0.73
1:D:413:CYS:SG	1:D:459:MET:HB2	2.27	0.73
1:J:56:THR:HG21	1:L:876:SER:HB2	1.70	0.73
1:J:938:VAL:O	1:K:12:MET:HE1	1.89	0.73
1:C:69:PRO:HG2	1:C:72:ARG:HD3	1.70	0.73
1:J:724:PHE:HB2	1:J:728:VAL:CG2	2.18	0.73
1:L:7:PRO:CB	4:O:47:ILE:CG2	2.63	0.73
1:A:248:ILE:O	1:A:249:LEU:HG	1.88	0.73
4:P:36:ALA:HB1	4:P:40:MET:HG3	1.69	0.73
1:H:249:LEU:HD23	1:H:257:LEU:CD1	2.16	0.73
1:J:256:LYS:CA	1:J:257:LEU:O	2.30	0.73
1:C:934:VAL:HG11	4:O:27:TYR:CZ	2.23	0.73
3:N:169:ARG:HG2	3:N:169:ARG:HH11	1.52	0.73
5:R:49:TYR:HD1	5:R:49:TYR:C	1.91	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:725:ASP:HB3	1:E:669:ARG:HH21	1.53	0.73
1:L:431:LYS:O	1:L:432:THR:CB	2.34	0.73
1:F:5:MET:O	1:F:6:MET:CB	2.37	0.73
1:F:59:ARG:HB2	1:J:733:ASN:OD1	1.88	0.73
1:B:362:ASP:HB3	1:B:941:ARG:HH22	1.53	0.73
5:R:102:ALA:O	5:R:106:GLN:HG2	1.87	0.73
1:B:520:GLY:HA2	1:C:114:PRO:O	1.88	0.73
1:J:413:CYS:SG	1:J:459:MET:HB2	2.28	0.73
1:B:413:CYS:SG	1:B:459:MET:HB2	2.28	0.73
1:D:884:LEU:HD23	1:E:49:VAL:HG13	1.70	0.73
1:A:24:SER:HB2	4:O:201:PHE:O	1.88	0.73
1:G:930:PRO:HB3	4:P:39:HIS:ND1	2.04	0.73
1:F:431:LYS:O	1:F:432:THR:CB	2.34	0.73
1:C:341:THR:HG21	1:K:343:ASN:HD21	1.53	0.73
4:P:93:ARG:HH11	4:P:160:PRO:HB3	1.51	0.73
1:A:779:GLY:HA2	1:B:96:ALA:O	1.89	0.73
1:J:724:PHE:O	1:J:728:VAL:HG22	1.89	0.73
1:B:248:ILE:O	1:B:249:LEU:HG	1.88	0.73
1:H:248:ILE:O	1:H:249:LEU:HG	1.88	0.73
1:A:68:ILE:CG1	1:E:73:GLU:CB	2.66	0.73
1:J:606:SER:HB3	5:Q:58:GLU:HB2	1.65	0.73
1:F:75:THR:CB	1:G:697:TYR:HE2	2.00	0.73
1:D:640:GLN:HE22	1:D:929:ARG:HH22	1.34	0.73
1:J:788:ASP:OD2	1:K:381:ARG:NH2	2.21	0.73
1:I:259:SER:C	1:I:260:GLN:HG2	2.08	0.72
1:G:13:HIS:CE1	1:G:22:TYR:CE2	2.76	0.72
2:M:44:ARG:CZ	3:N:65:ARG:HD2	2.19	0.72
1:B:69:PRO:HG2	1:B:72:ARG:HD3	1.70	0.72
1:K:820:HIS:HD2	1:L:202:GLU:OE1	1.72	0.72
1:K:301:TYR:CZ	1:L:208:SER:HB3	2.24	0.72
1:A:8:GLN:HE22	4:O:34:MET:CA	2.02	0.72
1:G:895:ASN:ND2	4:P:189:ILE:O	2.22	0.72
4:P:208:TYR:CD1	4:P:208:TYR:N	2.55	0.72
1:C:724:PHE:HB2	1:C:728:VAL:CG2	2.19	0.72
1:A:259:SER:C	1:A:260:GLN:HG2	2.08	0.72
1:D:248:ILE:O	1:D:249:LEU:HG	1.88	0.72
1:D:259:SER:C	1:D:260:GLN:HG2	2.08	0.72
1:B:640:GLN:HE22	1:B:929:ARG:HH22	1.34	0.72
1:K:19:ALA:CB	1:K:23:LEU:CD1	2.62	0.72
1:B:13:HIS:CE1	1:B:22:TYR:CE2	2.76	0.72
1:F:268:THR:HG22	1:F:268:THR:O	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:640:GLN:HE22	1:E:929:ARG:HH22	1.34	0.72
1:D:520:GLY:HA3	1:E:114:PRO:HG2	1.70	0.72
1:J:926:ARG:NH2	4:P:179:ARG:HH12	1.87	0.72
1:F:669:ARG:CB	1:G:82:ARG:NH2	2.50	0.72
1:G:248:ILE:O	1:G:249:LEU:HG	1.88	0.72
1:C:259:SER:C	1:C:260:GLN:HG2	2.08	0.72
1:C:348:ALA:O	1:C:579:THR:HG22	1.90	0.72
1:D:839:GLN:NE2	1:E:131:PRO:HG2	2.05	0.72
1:K:779:GLY:HA2	1:L:96:ALA:O	1.89	0.72
1:H:859:THR:OG1	1:I:556:PRO:HD2	1.88	0.72
4:P:208:TYR:N	4:P:208:TYR:HD1	1.87	0.72
1:D:27:LEU:HA	1:F:632:MET:CE	2.19	0.72
1:E:5:MET:O	1:E:6:MET:CB	2.37	0.72
1:G:640:GLN:HE22	1:G:929:ARG:HH22	1.34	0.72
1:I:640:GLN:HE22	1:I:929:ARG:HH22	1.35	0.72
1:J:204:GLN:HE22	1:L:820:HIS:HA	1.53	0.72
1:F:640:GLN:HE22	1:F:929:ARG:HH22	1.34	0.72
1:H:11:TYR:CE1	4:P:43:ARG:CG	2.73	0.72
1:H:5:MET:CE	4:P:29:THR:OG1	2.37	0.72
1:B:249:LEU:HD23	1:B:257:LEU:CD1	2.16	0.72
1:I:431:LYS:O	1:I:432:THR:CB	2.34	0.72
1:G:249:LEU:HD23	1:G:257:LEU:CD1	2.16	0.72
1:E:896:SER:CB	1:K:932:ARG:NH2	2.46	0.72
1:E:727:SER:O	1:K:62:ARG:NH1	2.23	0.72
1:H:69:PRO:HG2	1:H:72:ARG:HD3	1.70	0.72
1:A:59:ARG:HH11	1:E:354:LEU:CD2	2.03	0.72
1:A:638:ASN:OD1	1:B:24:SER:N	2.22	0.72
1:A:463:LEU:HD23	1:C:463:LEU:CD1	2.12	0.72
1:E:268:THR:HG22	1:E:268:THR:O	1.89	0.72
1:C:218:ALA:CB	1:C:283:VAL:HG22	2.03	0.72
1:A:268:THR:HG22	1:A:268:THR:O	1.89	0.72
1:J:268:THR:O	1:J:268:THR:HG22	1.89	0.72
1:B:842:PRO:HG2	1:C:246:GLN:HE22	1.53	0.72
1:H:361:GLN:OE1	5:S:21:PRO:CG	2.37	0.72
1:A:558:HIS:CE1	1:C:754:ASN:O	2.43	0.72
1:D:62:ARG:HG2	1:F:734:ASP:O	1.90	0.72
1:A:9:TRP:CZ2	1:C:673:ALA:HB2	2.24	0.72
3:N:198:THR:O	4:O:199:ASN:ND2	2.23	0.72
3:N:234:LEU:HD22	4:O:198:PHE:CD1	2.25	0.72
1:I:433:GLY:O	1:I:437:GLY:HA3	1.90	0.72
1:J:81:ALA:HB1	1:J:83:PHE:CZ	2.24	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:83:PHE:N	1:J:83:PHE:CD1	2.58	0.72
1:B:229:MET:HE1	1:B:314:MET:CG	2.08	0.72
5:Q:100:LEU:O	5:Q:104:LEU:HD23	1.89	0.72
1:B:859:THR:OG1	1:C:556:PRO:HD2	1.90	0.72
1:F:259:SER:C	1:F:260:GLN:HG2	2.08	0.72
1:L:249:LEU:HD23	1:L:257:LEU:CD1	2.16	0.72
1:L:248:ILE:CG2	1:L:249:LEU:N	2.41	0.72
1:I:248:ILE:O	1:I:249:LEU:HG	1.88	0.72
1:D:777:TYR:CE1	1:E:63:LEU:HD21	2.23	0.72
1:K:640:GLN:HE22	1:K:929:ARG:HH22	1.34	0.72
1:D:908:PRO:HG3	5:R:43:ASN:CA	2.19	0.72
1:G:669:ARG:C	1:G:897:ALA:HB1	2.09	0.72
1:K:671:TRP:NE1	1:K:898:HIS:O	2.22	0.72
1:L:3:PRO:HB3	3:N:298:ASN:HD22	1.55	0.72
1:K:180:LYS:HE3	1:L:430:PRO:HG3	1.70	0.72
1:K:61:GLN:NE2	1:K:623:HIS:HE1	1.86	0.72
1:D:759:ASN:CA	5:R:50:GLU:OE1	2.38	0.72
1:B:820:HIS:HD2	1:C:202:GLU:OE1	1.72	0.72
1:G:202:GLU:OE1	1:I:820:HIS:HD2	1.71	0.72
1:J:301:TYR:CZ	1:K:208:SER:HB3	2.23	0.72
1:K:670:ASN:N	4:O:10:MET:CE	2.53	0.72
1:A:25:PRO:CD	4:O:202:SER:CB	2.68	0.72
1:G:259:SER:C	1:G:260:GLN:HG2	2.08	0.72
1:C:433:GLY:O	1:C:437:GLY:HA3	1.90	0.72
1:J:260:GLN:C	1:J:261:VAL:HG23	2.11	0.72
1:E:727:SER:HB3	1:K:66:ARG:O	1.88	0.72
1:L:737:LEU:CB	1:L:753:TYR:CE2	2.69	0.72
1:K:256:LYS:HA	1:K:257:LEU:C	2.03	0.72
1:E:632:MET:HB2	1:F:27:LEU:CD2	2.16	0.72
1:B:891:LEU:CD2	1:B:891:LEU:C	2.51	0.72
1:D:69:PRO:HG2	1:D:72:ARG:HD3	1.70	0.72
5:Q:83:SER:N	5:Q:84:PRO:CD	2.51	0.71
1:H:67:PHE:CE2	1:H:84:THR:O	2.43	0.71
1:I:268:THR:HG22	1:I:268:THR:O	1.89	0.71
1:H:268:THR:O	1:H:268:THR:HG22	1.89	0.71
1:G:754:ASN:O	1:H:558:HIS:CE1	2.42	0.71
1:J:663:PRO:HD2	5:Q:92:ARG:NH1	2.05	0.71
1:G:656:PRO:CB	5:Q:86:ALA:O	2.35	0.71
1:F:669:ARG:HB3	1:G:82:ARG:NH1	2.05	0.71
1:G:891:LEU:HD23	1:H:2:THR:CG2	2.18	0.71
1:F:249:LEU:HD23	1:F:257:LEU:CD1	2.16	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:180:LYS:HE3	1:E:430:PRO:HG3	1.71	0.71
1:K:62:ARG:HD3	1:K:65:LEU:CD2	2.20	0.71
1:K:726:SER:O	1:K:727:SER:HB2	1.90	0.71
1:K:638:ASN:ND2	1:L:24:SER:CB	2.36	0.71
1:A:551:ASN:CB	1:C:521:ALA:HB2	2.19	0.71
1:G:726:SER:CB	1:J:670:ASN:HB2	2.20	0.71
1:A:640:GLN:HE22	1:A:929:ARG:HH22	1.34	0.71
1:H:5:MET:CB	4:P:51:ARG:CD	2.54	0.71
1:K:671:TRP:CD1	1:K:898:HIS:ND1	2.56	0.71
1:L:432:THR:HG21	1:L:439:GLU:OE2	1.90	0.71
1:C:341:THR:CG2	1:K:693:GLY:N	2.53	0.71
1:J:737:LEU:HB3	1:J:753:TYR:HE2	1.49	0.71
1:G:903:THR:OG1	1:J:948:ASN:CB	2.38	0.71
1:C:739:PRO:CB	1:E:341:THR:CG2	2.63	0.71
1:A:246:GLN:NE2	1:C:844:ASN:HA	2.05	0.71
3:N:93:LEU:HD13	3:N:94:VAL:N	2.05	0.71
1:G:5:MET:O	1:G:6:MET:CB	2.37	0.71
1:E:808:THR:O	5:T:113:GLU:CG	2.35	0.71
1:C:268:THR:HG22	1:C:268:THR:O	1.89	0.71
1:G:268:THR:O	1:G:268:THR:HG22	1.90	0.71
1:F:72:ARG:NH2	5:Q:97:ASP:OD1	2.24	0.71
1:A:19:ALA:CB	1:A:23:LEU:CD1	2.62	0.71
1:C:632:MET:HG2	4:O:201:PHE:HD2	1.40	0.71
1:K:949:ALA:N	4:O:30:ARG:NH1	2.37	0.71
4:O:33:TYR:CD1	4:O:41:ILE:HD11	2.26	0.71
1:D:5:MET:O	1:D:6:MET:CB	2.37	0.71
1:F:667:PRO:HD3	1:G:71:ASP:HB2	1.72	0.71
1:J:180:LYS:CE	1:K:430:PRO:CG	2.63	0.71
1:D:19:ALA:CB	1:D:23:LEU:CD1	2.62	0.71
1:B:667:PRO:HD2	2:M:101:TYR:CE1	2.25	0.71
1:B:734:ASP:O	1:C:62:ARG:HG2	1.90	0.71
1:L:268:THR:HG22	1:L:268:THR:O	1.89	0.71
1:E:520:GLY:HA3	1:F:114:PRO:HG2	1.73	0.71
1:A:94:ASP:OD2	1:C:778:GLN:NE2	2.23	0.71
1:B:778:GLN:NE2	1:C:94:ASP:OD2	2.22	0.71
2:M:463:VAL:HB	2:M:529:LEU:HD13	1.72	0.71
1:J:558:HIS:CE1	1:L:754:ASN:O	2.43	0.71
1:K:431:LYS:O	1:K:432:THR:CB	2.34	0.71
1:F:61:GLN:HE22	1:F:623:HIS:HE1	1.38	0.71
1:F:632:MET:HB3	4:P:201:PHE:CD1	2.24	0.71
1:B:938:VAL:HG13	1:B:949:ALA:HB2	1.69	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:5:MET:O	1:J:6:MET:CB	2.37	0.71
1:B:6:MET:HB3	1:B:7:PRO:HD3	1.72	0.71
3:N:271:ASP:C	4:O:61:ILE:CG2	2.59	0.71
1:K:929:ARG:HG3	1:K:929:ARG:NH1	2.06	0.71
1:B:341:THR:HG21	2:M:538:VAL:HG21	1.73	0.71
1:J:114:PRO:HG2	1:L:520:GLY:HA3	1.72	0.71
1:C:692:SER:HB3	1:K:76:ALA:HB1	1.73	0.71
3:N:193:ARG:HB3	4:O:207:HIS:CD2	2.24	0.71
1:E:353:GLN:O	1:E:353:GLN:OE1	2.09	0.71
1:A:180:LYS:HD3	1:B:430:PRO:HG3	1.72	0.71
1:E:433:GLY:O	1:E:437:GLY:HA3	1.89	0.71
1:C:257:LEU:HD22	1:C:259:SER:CB	2.21	0.71
1:C:260:GLN:C	1:C:261:VAL:HG23	2.11	0.71
1:K:257:LEU:HD22	1:K:259:SER:CB	2.21	0.71
3:N:271:ASP:CG	3:N:297:LEU:HD12	2.10	0.71
1:D:859:THR:OG1	1:E:556:PRO:HD2	1.90	0.71
1:K:940:LEU:HD11	4:O:29:THR:O	1.90	0.71
1:J:433:GLY:O	1:J:437:GLY:HA3	1.91	0.71
1:I:249:LEU:HD23	1:I:257:LEU:CD1	2.16	0.71
1:C:725:ASP:OD1	1:E:669:ARG:HB2	1.90	0.71
1:K:672:ALA:HB2	1:K:894:ALA:CB	2.20	0.71
1:F:948:ASN:ND2	1:G:358:VAL:HG22	2.06	0.71
1:G:949:ALA:N	4:P:30:ARG:NH1	2.38	0.71
1:H:257:LEU:HD22	1:H:259:SER:CB	2.21	0.71
1:D:257:LEU:HD22	1:D:259:SER:CB	2.21	0.71
1:J:734:ASP:O	1:K:62:ARG:CG	2.39	0.71
1:J:59:ARG:HB2	4:P:108:LEU:HD11	1.60	0.71
1:D:929:ARG:NH1	1:D:929:ARG:HG3	2.06	0.71
1:K:734:ASP:O	1:L:62:ARG:HG2	1.91	0.71
4:P:68:ASN:C	4:P:70:ASN:H	1.94	0.71
1:J:208:SER:HB3	1:L:301:TYR:CZ	2.24	0.71
3:N:194:GLN:NE2	4:O:211:GLN:NE2	2.38	0.71
1:H:4:SER:HB2	4:P:51:ARG:HG2	1.73	0.71
1:B:260:GLN:C	1:B:261:VAL:HG23	2.11	0.71
1:H:256:LYS:HA	1:H:257:LEU:C	2.03	0.71
1:I:257:LEU:HD22	1:I:259:SER:CB	2.21	0.71
1:K:260:GLN:C	1:K:261:VAL:HG23	2.11	0.71
1:E:19:ALA:HB1	1:E:23:LEU:HD11	1.65	0.71
1:J:19:ALA:CB	1:J:23:LEU:CD1	2.62	0.71
1:E:8:GLN:OE1	1:E:8:GLN:CA	2.31	0.71
1:D:747:SER:C	1:D:748:VAL:CG1	2.59	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:434:GLN:HA	1:J:435:GLU:C	2.11	0.71
1:H:519:LEU:HD12	1:I:119:ALA:HB2	1.73	0.71
1:F:637:THR:OG1	4:P:200:PRO:HG3	1.90	0.71
1:K:669:ARG:C	4:O:10:MET:CE	2.58	0.71
1:G:945:SER:H	4:P:28:SER:C	1.93	0.71
1:D:281:PRO:HG3	1:E:438:TRP:CH2	2.26	0.71
1:J:69:PRO:HG2	1:J:72:ARG:HD3	1.70	0.71
2:M:48:PRO:CD	3:N:106:ASN:HB3	2.21	0.71
1:B:188:GLU:HG3	1:B:193:LYS:CD	2.21	0.71
3:N:214:VAL:CG2	3:N:253:TYR:HB2	2.21	0.71
1:C:897:ALA:HB2	1:K:350:GLN:O	1.91	0.71
1:F:929:ARG:HG3	1:F:929:ARG:NH1	2.06	0.70
3:N:197:GLN:H	4:O:197:TYR:HD2	1.39	0.70
3:N:198:THR:OG1	4:O:199:ASN:CB	2.39	0.70
4:P:55:LEU:HD23	4:P:194:PRO:HB2	1.69	0.70
1:K:890:ASN:ND2	1:K:892:LEU:HB3	2.06	0.70
1:E:240:THR:HG22	1:E:249:LEU:HD11	1.73	0.70
1:E:257:LEU:HD22	1:E:259:SER:CB	2.21	0.70
1:B:240:THR:HG22	1:B:249:LEU:HD11	1.73	0.70
1:H:240:THR:HG22	1:H:249:LEU:HD11	1.73	0.70
1:F:260:GLN:C	1:F:261:VAL:HG23	2.11	0.70
1:L:257:LEU:HD22	1:L:259:SER:CB	2.21	0.70
1:K:240:THR:HG22	1:K:249:LEU:HD11	1.73	0.70
2:M:48:PRO:HD3	3:N:106:ASN:HB3	1.73	0.70
1:A:165:THR:O	1:B:445:PHE:HA	1.91	0.70
1:A:264:GLN:NE2	1:B:445:PHE:HZ	1.89	0.70
1:G:521:ALA:CB	1:H:551:ASN:HB3	2.16	0.70
1:C:640:GLN:HE22	1:C:929:ARG:HH22	1.35	0.70
1:J:728:VAL:CB	4:P:226:TYR:CD1	2.72	0.70
4:O:208:TYR:CD1	4:O:208:TYR:N	2.55	0.70
1:G:432:THR:HG21	1:G:439:GLU:OE2	1.90	0.70
1:C:341:THR:HG21	1:K:343:ASN:ND2	2.06	0.70
1:C:341:THR:HG22	1:K:693:GLY:N	2.06	0.70
1:D:433:GLY:O	1:D:437:GLY:HA3	1.90	0.70
1:J:777:TYR:CE1	1:K:63:LEU:HD21	2.26	0.70
1:E:188:GLU:HG3	1:E:193:LYS:CD	2.21	0.70
4:O:159:ARG:HB3	4:O:160:PRO:CD	2.18	0.70
1:J:188:GLU:HG3	1:J:193:LYS:CD	2.21	0.70
1:A:63:LEU:HD21	1:C:777:TYR:CE1	2.26	0.70
1:D:521:ALA:CB	1:E:551:ASN:HB3	2.19	0.70
1:A:438:TRP:C	1:C:279:LEU:HD22	2.11	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:103:ARG:HD2	1:C:752:GLY:HA2	1.72	0.70
1:G:756:ALA:HA	1:H:385:MET:HA	1.73	0.70
1:L:434:GLN:HA	1:L:435:GLU:C	2.12	0.70
1:B:884:LEU:HD23	1:C:49:VAL:HG13	1.72	0.70
1:G:670:ASN:H	4:P:10:MET:HE1	1.54	0.70
1:G:939:TYR:CB	4:P:32:ASN:ND2	2.45	0.70
1:B:257:LEU:HD22	1:B:259:SER:CB	2.21	0.70
1:K:180:LYS:HE2	1:L:430:PRO:CG	2.15	0.70
1:G:63:LEU:HD21	1:I:777:TYR:CE1	2.27	0.70
1:A:188:GLU:HG3	1:A:193:LYS:CD	2.21	0.70
1:F:188:GLU:HG3	1:F:193:LYS:CD	2.21	0.70
1:C:188:GLU:HG3	1:C:193:LYS:CD	2.21	0.70
1:H:520:GLY:HA3	1:I:114:PRO:HG2	1.72	0.70
3:N:229:THR:HG23	4:O:4:GLU:HG2	1.73	0.70
1:A:519:LEU:HD12	1:B:119:ALA:HB2	1.73	0.70
1:G:928:HIS:CE1	4:P:39:HIS:ND1	2.59	0.70
1:K:938:VAL:CG2	4:O:40:MET:HE2	2.11	0.70
1:H:67:PHE:CE1	1:J:353:GLN:OE1	2.44	0.70
1:H:188:GLU:HG3	1:H:193:LYS:CD	2.21	0.70
1:D:268:THR:HG22	1:D:268:THR:O	1.89	0.70
1:C:941:ARG:O	1:C:945:SER:HA	1.91	0.70
1:D:759:ASN:HB3	5:R:50:GLU:CB	2.20	0.70
1:J:820:HIS:HA	1:K:204:GLN:HE22	1.57	0.70
1:B:820:HIS:HA	1:C:204:GLN:HE22	1.57	0.70
1:D:119:ALA:HB2	1:F:519:LEU:HD12	1.73	0.70
1:C:637:THR:HB	4:O:200:PRO:HB2	1.73	0.70
1:E:249:LEU:HD23	1:E:257:LEU:CD1	2.16	0.70
1:F:257:LEU:HD22	1:F:259:SER:CB	2.21	0.70
1:C:240:THR:HG22	1:C:249:LEU:HD11	1.73	0.70
1:J:249:LEU:HD23	1:J:257:LEU:CD1	2.16	0.70
1:J:69:PRO:CG	1:J:83:PHE:CE2	2.72	0.70
1:H:820:HIS:HD2	1:I:202:GLU:OE1	1.74	0.70
1:B:434:GLN:HA	1:B:435:GLU:C	2.11	0.70
1:H:19:ALA:CB	1:H:23:LEU:CD1	2.62	0.70
1:F:928:HIS:ND1	4:P:30:ARG:NH2	2.39	0.70
1:F:433:GLY:O	1:F:437:GLY:HA3	1.91	0.70
1:G:180:LYS:HE3	1:H:430:PRO:CG	2.19	0.70
1:H:432:THR:HG21	1:H:439:GLU:OE2	1.89	0.70
1:B:180:LYS:CE	1:C:430:PRO:CG	2.67	0.70
1:J:240:THR:HG22	1:J:249:LEU:HD11	1.73	0.70
1:A:638:ASN:ND2	1:B:24:SER:HB3	2.05	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:272:GLU:HA	4:O:61:ILE:O	1.92	0.70
1:G:264:GLN:NE2	1:H:445:PHE:HZ	1.88	0.70
1:L:188:GLU:HG3	1:L:193:LYS:CD	2.21	0.70
1:D:188:GLU:HG3	1:D:193:LYS:CD	2.21	0.70
1:J:246:GLN:HE22	1:L:842:PRO:HG2	1.55	0.70
1:K:737:LEU:CB	1:K:753:TYR:CE2	2.68	0.70
1:H:754:ASN:O	1:I:558:HIS:CE1	2.44	0.70
1:F:897:ALA:HB2	1:G:350:GLN:C	2.12	0.70
1:G:936:GLU:CG	4:P:37:GLY:HA3	2.21	0.70
1:B:433:GLY:O	1:B:437:GLY:HA3	1.90	0.70
1:J:737:LEU:CB	1:J:753:TYR:CE2	2.69	0.70
1:I:264:GLN:O	1:I:266:PHE:CE1	2.45	0.70
1:H:601:ARG:CB	5:S:32:SER:OG	2.39	0.70
1:K:268:THR:O	1:K:268:THR:HG22	1.89	0.70
1:F:66:ARG:NH1	1:F:68:ILE:HD11	2.05	0.70
1:F:434:GLN:HA	1:F:435:GLU:C	2.12	0.70
1:E:779:GLY:HA2	1:F:96:ALA:O	1.91	0.70
1:G:9:TRP:CZ2	1:I:673:ALA:HB2	2.27	0.70
1:A:24:SER:CB	1:C:638:ASN:OD1	2.40	0.70
1:K:944:PHE:H	4:O:28:SER:HB2	1.56	0.70
1:L:5:MET:HE1	4:O:29:THR:CB	2.21	0.70
1:C:724:PHE:CD1	1:E:950:THR:HG21	2.26	0.70
1:G:281:PRO:HG3	1:H:438:TRP:CZ3	2.24	0.70
1:D:265:PHE:CG	1:E:438:TRP:HZ3	2.09	0.70
1:G:257:LEU:HD22	1:G:259:SER:CB	2.21	0.70
1:H:67:PHE:CD1	1:J:353:GLN:NE2	2.60	0.70
1:B:939:TYR:O	1:B:947:GLY:C	2.30	0.70
1:C:740:ASN:CB	1:E:341:THR:OG1	2.39	0.70
1:C:929:ARG:HG3	1:C:929:ARG:NH1	2.05	0.70
1:K:943:PRO:C	4:O:28:SER:O	2.30	0.70
1:H:11:TYR:CD1	4:P:43:ARG:HG2	2.27	0.70
1:L:748:VAL:HG22	1:L:749:ASP:N	2.07	0.70
1:A:257:LEU:HD22	1:A:259:SER:CB	2.21	0.70
1:G:936:GLU:CB	4:P:40:MET:SD	2.80	0.70
1:H:260:GLN:C	1:H:261:VAL:HG23	2.11	0.70
1:J:889:GLN:O	1:J:889:GLN:CG	2.38	0.70
1:J:947:GLY:CA	1:J:948:ASN:O	2.30	0.70
1:E:896:SER:HB3	1:K:932:ARG:NE	2.07	0.70
1:H:67:PHE:CE1	1:J:353:GLN:NE2	2.58	0.70
1:K:229:MET:HE3	1:K:314:MET:HG2	1.73	0.70
1:B:6:MET:CB	1:B:7:PRO:CD	2.45	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:684:THR:CG2	5:S:26:ARG:HB2	2.21	0.70
1:G:929:ARG:NH1	1:G:929:ARG:HG3	2.06	0.70
1:H:929:ARG:NH1	1:H:929:ARG:HG3	2.06	0.70
1:K:754:ASN:O	1:L:558:HIS:CE1	2.44	0.70
1:J:660:THR:H	5:R:130:ALA:HB1	1.56	0.70
1:I:240:THR:HG22	1:I:249:LEU:HD11	1.73	0.70
1:D:249:LEU:HD23	1:D:257:LEU:CD1	2.16	0.70
1:J:890:ASN:HB3	1:J:893:TYR:HD2	1.57	0.70
1:D:737:LEU:CB	1:D:753:TYR:CE2	2.68	0.70
1:G:188:GLU:HG3	1:G:193:LYS:CD	2.21	0.70
1:D:747:SER:O	1:D:748:VAL:CG1	2.39	0.70
1:E:400:ILE:CD1	1:E:476:ILE:HD13	2.20	0.70
1:J:697:TYR:CE2	5:Q:75:ILE:CG2	2.75	0.70
1:L:929:ARG:HG3	1:L:929:ARG:NH1	2.05	0.70
1:E:434:GLN:HA	1:E:435:GLU:C	2.12	0.70
1:H:181:GLU:HB2	1:H:194:TYR:CE2	2.27	0.70
1:F:348:ALA:HB1	1:F:354:LEU:O	1.89	0.69
4:P:43:ARG:O	4:P:47:ILE:HG12	1.91	0.69
1:G:433:GLY:O	1:G:437:GLY:HA3	1.92	0.69
1:H:432:THR:CG2	1:H:439:GLU:OE2	2.40	0.69
1:H:180:LYS:HE3	1:I:430:PRO:CG	2.20	0.69
1:J:257:LEU:HD22	1:J:259:SER:CB	2.21	0.69
1:E:896:SER:HB3	1:K:932:ARG:HE	1.55	0.69
1:F:632:MET:SD	4:P:201:PHE:CE1	2.85	0.69
1:K:264:GLN:O	1:K:266:PHE:CE1	2.45	0.69
1:I:929:ARG:HG3	1:I:929:ARG:NH1	2.06	0.69
1:J:9:TRP:CZ2	1:L:673:ALA:HB2	2.27	0.69
1:D:181:GLU:HB2	1:D:194:TYR:CE2	2.27	0.69
1:A:434:GLN:HA	1:A:435:GLU:C	2.11	0.69
1:B:779:GLY:HA2	1:C:96:ALA:O	1.91	0.69
1:C:632:MET:N	4:O:201:PHE:CZ	2.60	0.69
1:D:8:GLN:NE2	4:P:34:MET:HA	2.04	0.69
1:E:260:GLN:C	1:E:261:VAL:HG23	2.11	0.69
1:J:432:THR:HG21	1:J:439:GLU:OE2	1.92	0.69
1:K:433:GLY:O	1:K:437:GLY:HA3	1.90	0.69
1:G:240:THR:HG22	1:G:249:LEU:HD11	1.73	0.69
1:C:948:ASN:O	1:K:344:MET:SD	2.49	0.69
1:A:66:ARG:CD	1:A:615:TYR:OH	2.40	0.69
1:L:19:ALA:CB	1:L:23:LEU:CD1	2.62	0.69
3:N:272:GLU:HG3	4:O:61:ILE:HA	1.72	0.69
1:A:187:VAL:CB	1:A:191:THR:O	2.40	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:187:VAL:CB	1:K:191:THR:O	2.40	0.69
1:J:929:ARG:NH1	1:J:929:ARG:HG3	2.05	0.69
1:I:181:GLU:HB2	1:I:194:TYR:CE2	2.27	0.69
1:K:519:LEU:HD12	1:L:119:ALA:HB2	1.74	0.69
1:F:897:ALA:HB3	1:G:350:GLN:CB	2.14	0.69
1:H:4:SER:N	4:P:54:ILE:CD1	2.55	0.69
1:G:180:LYS:HE2	1:H:430:PRO:CG	2.19	0.69
1:F:240:THR:HG22	1:F:249:LEU:HD11	1.73	0.69
1:L:432:THR:CG2	1:L:439:GLU:OE2	2.40	0.69
1:C:5:MET:O	1:C:5:MET:CG	2.40	0.69
1:C:739:PRO:C	1:E:341:THR:HG21	2.13	0.69
1:B:22:TYR:CD1	1:B:22:TYR:C	2.66	0.69
1:G:839:GLN:NE2	1:H:131:PRO:HG2	2.08	0.69
1:D:96:ALA:O	1:F:779:GLY:HA2	1.93	0.69
1:I:434:GLN:HA	1:I:435:GLU:C	2.11	0.69
1:L:181:GLU:HB2	1:L:194:TYR:CE2	2.27	0.69
1:A:25:PRO:HD2	4:O:202:SER:N	2.08	0.69
1:A:91:ARG:NH1	1:E:353:GLN:CG	2.55	0.69
1:E:362:ASP:HB3	1:E:941:ARG:NH2	2.06	0.69
1:D:240:THR:HG22	1:D:249:LEU:HD11	1.73	0.69
1:D:22:TYR:CD1	1:D:22:TYR:C	2.66	0.69
1:A:451:ILE:HD13	1:C:285:LEU:HD11	1.74	0.69
1:I:188:GLU:HG3	1:I:193:LYS:CD	2.21	0.69
1:B:268:THR:HG22	1:B:268:THR:O	1.90	0.69
1:A:181:GLU:HB2	1:A:194:TYR:CE2	2.27	0.69
1:E:181:GLU:HB2	1:E:194:TYR:CE2	2.27	0.69
4:P:93:ARG:HH21	4:P:93:ARG:CG	2.05	0.69
1:H:752:GLY:HA2	1:I:103:ARG:HD2	1.73	0.69
4:O:208:TYR:HD1	4:O:208:TYR:N	1.87	0.69
1:F:628:THR:CG2	4:P:208:TYR:CE2	2.76	0.69
1:G:948:ASN:HD21	4:P:32:ASN:N	1.90	0.69
1:H:6:MET:N	1:H:7:PRO:CD	2.55	0.69
1:K:939:TYR:HB2	4:O:32:ASN:HD22	1.52	0.69
1:F:59:ARG:C	1:K:60:SER:CB	2.61	0.69
1:C:737:LEU:CG	1:C:753:TYR:CE2	2.71	0.69
1:C:737:LEU:HD12	1:C:763:ASP:OD2	1.92	0.69
1:E:19:ALA:CB	1:E:23:LEU:CD1	2.62	0.69
1:K:188:GLU:HG3	1:K:193:LYS:CD	2.21	0.69
2:M:51:GLY:O	2:M:114:ASP:CG	2.31	0.69
1:C:631:ALA:C	4:O:201:PHE:CZ	2.66	0.69
1:L:7:PRO:HB3	4:O:47:ILE:HG23	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:433:GLY:O	1:H:437:GLY:HA3	1.92	0.69
1:K:693:GLY:O	1:K:694:TYR:HB3	1.91	0.69
1:F:90:ASN:ND2	1:F:623:HIS:HB3	2.08	0.69
1:J:950:THR:HB	1:J:951:THR:HG21	1.73	0.69
1:F:229:MET:HE3	1:F:314:MET:HG2	1.67	0.69
2:M:48:PRO:N	3:N:106:ASN:HB3	2.06	0.69
1:G:651:MET:CE	1:G:653:TYR:OH	2.41	0.69
1:E:929:ARG:HG3	1:E:929:ARG:NH1	2.06	0.69
1:F:737:LEU:HB3	1:F:753:TYR:HE2	1.49	0.69
1:J:941:ARG:HD2	1:J:944:PHE:O	1.91	0.69
3:N:191:THR:CG2	3:N:192:SER:H	2.05	0.69
1:F:86:ALA:HB3	1:J:725:ASP:O	1.91	0.69
1:K:820:HIS:HA	1:L:204:GLN:HE22	1.57	0.69
1:K:434:GLN:HA	1:K:435:GLU:C	2.11	0.69
1:F:610:ASP:OD2	5:T:99:LYS:CB	2.41	0.69
1:D:8:GLN:OE1	1:D:8:GLN:CA	2.31	0.69
1:L:719:LYS:HD3	5:Q:22:TRP:NE1	2.06	0.69
1:L:260:GLN:C	1:L:261:VAL:HG23	2.11	0.69
1:J:69:PRO:HA	1:J:83:PHE:CD2	2.27	0.69
1:F:632:MET:CB	4:P:201:PHE:CG	2.76	0.69
1:F:24:SER:CB	1:F:27:LEU:HD12	2.21	0.69
1:G:22:TYR:CD1	1:G:22:TYR:C	2.66	0.69
1:I:22:TYR:C	1:I:22:TYR:CD1	2.66	0.69
1:F:427:LYS:HG3	1:F:445:PHE:HD2	1.40	0.69
1:G:6:MET:HB3	1:G:7:PRO:HD3	1.74	0.69
1:J:187:VAL:CB	1:J:191:THR:O	2.41	0.69
1:G:56:THR:HG21	1:I:876:SER:CB	2.21	0.69
1:E:734:ASP:O	1:F:62:ARG:HG2	1.93	0.69
1:G:438:TRP:C	1:I:279:LEU:HD22	2.12	0.69
1:G:204:GLN:HE22	1:I:820:HIS:HA	1.54	0.69
1:D:434:GLN:HA	1:D:435:GLU:C	2.12	0.69
5:T:47:LEU:HG	5:T:47:LEU:O	1.92	0.69
1:F:181:GLU:HB2	1:F:194:TYR:CE2	2.27	0.69
4:O:68:ASN:C	4:O:70:ASN:H	1.94	0.69
1:A:91:ARG:CZ	1:E:353:GLN:HG3	2.22	0.69
1:G:874:PHE:CZ	1:G:893:TYR:OH	2.46	0.69
1:H:433:GLY:HA3	1:H:437:GLY:CA	2.22	0.69
1:I:260:GLN:C	1:I:261:VAL:HG23	2.11	0.69
1:B:929:ARG:NH1	1:B:929:ARG:HG3	2.06	0.69
1:C:434:GLN:HA	1:C:435:GLU:C	2.12	0.69
1:A:119:ALA:HB2	1:C:519:LEU:HD12	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:434:GLN:HA	1:G:435:GLU:C	2.12	0.69
1:J:654:PRO:CD	5:Q:84:PRO:HG3	2.18	0.69
1:J:728:VAL:HB	4:P:226:TYR:CG	2.27	0.69
1:L:5:MET:CE	4:O:29:THR:CG2	2.70	0.69
3:N:194:GLN:CD	4:O:211:GLN:HE21	1.95	0.69
1:K:945:SER:HB3	4:O:30:ARG:H	1.58	0.69
1:G:941:ARG:O	1:G:945:SER:CA	2.38	0.69
1:D:180:LYS:HE2	1:E:430:PRO:CG	2.17	0.69
1:J:229:MET:HE3	1:J:314:MET:CG	2.21	0.69
1:K:727:SER:HB3	4:O:15:PRO:HB2	1.71	0.69
1:L:22:TYR:C	1:L:22:TYR:CD1	2.66	0.69
1:G:165:THR:O	1:H:445:PHE:HA	1.93	0.69
1:C:187:VAL:CB	1:C:191:THR:O	2.40	0.69
3:N:143:LEU:CD2	3:N:169:ARG:HD3	2.22	0.69
1:G:726:SER:CB	1:J:670:ASN:HB3	2.23	0.69
1:K:181:GLU:HB2	1:K:194:TYR:CE2	2.27	0.69
1:C:181:GLU:HB2	1:C:194:TYR:CE2	2.27	0.69
1:H:434:GLN:HA	1:H:435:GLU:C	2.11	0.69
1:E:61:GLN:NE2	1:E:623:HIS:HE1	1.91	0.69
1:A:929:ARG:NH1	1:A:929:ARG:HG3	2.06	0.68
1:F:948:ASN:N	1:F:949:ALA:CB	2.56	0.68
1:K:891:LEU:O	1:K:895:ASN:CB	2.30	0.68
1:C:431:LYS:O	1:C:432:THR:CB	2.34	0.68
1:J:891:LEU:O	1:J:895:ASN:CG	2.31	0.68
1:B:229:MET:HE3	1:B:314:MET:CG	2.21	0.68
1:D:187:VAL:CB	1:D:191:THR:O	2.40	0.68
1:C:931:HIS:CE1	4:O:24:ALA:HB3	2.27	0.68
1:A:400:ILE:CD1	1:A:476:ILE:HD13	2.20	0.68
1:L:400:ILE:CD1	1:L:476:ILE:HD13	2.20	0.68
2:M:152:LEU:HD21	2:M:199:ASN:O	1.94	0.68
1:H:34:THR:C	1:H:36:THR:H	1.97	0.68
1:K:945:SER:HB3	4:O:30:ARG:N	2.08	0.68
1:G:928:HIS:HE1	4:P:39:HIS:CG	2.11	0.68
1:H:11:TYR:HB2	4:P:47:ILE:HG21	1.76	0.68
1:G:948:ASN:OD1	4:P:32:ASN:HA	1.92	0.68
1:A:240:THR:HG22	1:A:249:LEU:HD11	1.73	0.68
1:A:260:GLN:C	1:A:261:VAL:HG23	2.11	0.68
1:G:260:GLN:C	1:G:261:VAL:HG23	2.11	0.68
1:J:669:ARG:NH1	1:J:948:ASN:HD21	1.91	0.68
1:J:62:ARG:HH21	1:L:737:LEU:C	1.96	0.68
1:A:70:VAL:CA	1:E:71:ASP:OD1	2.41	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:737:LEU:CD1	1:C:753:TYR:CE2	2.64	0.68
1:J:22:TYR:C	1:J:22:TYR:CD1	2.66	0.68
1:J:8:GLN:OE1	1:J:8:GLN:CA	2.31	0.68
1:H:521:ALA:CB	1:I:551:ASN:HB3	2.21	0.68
1:B:521:ALA:CB	1:C:551:ASN:HB3	2.18	0.68
1:A:737:LEU:HB3	1:A:753:TYR:HE2	1.49	0.68
1:F:637:THR:OG1	4:P:200:PRO:CB	2.41	0.68
1:B:181:GLU:HB2	1:B:194:TYR:CE2	2.27	0.68
1:C:34:THR:C	1:C:36:THR:H	1.97	0.68
1:G:311:ARG:NH1	1:H:211:TYR:CE1	2.62	0.68
1:D:820:HIS:HD2	1:E:202:GLU:OE1	1.75	0.68
1:D:301:TYR:CZ	1:E:208:SER:HB3	2.27	0.68
1:G:354:LEU:HD11	4:P:35:SER:CA	2.13	0.68
1:H:5:MET:SD	1:H:8:GLN:HG2	2.33	0.68
1:F:432:THR:HG21	1:F:439:GLU:OE2	1.93	0.68
1:G:180:LYS:HD3	1:H:430:PRO:HG3	1.73	0.68
1:D:260:GLN:C	1:D:261:VAL:HG23	2.11	0.68
1:J:737:LEU:CD1	1:J:753:TYR:CE2	2.77	0.68
1:J:950:THR:OG1	1:J:951:THR:HG22	1.94	0.68
1:F:632:MET:HA	4:P:201:PHE:CD2	2.27	0.68
1:D:734:ASP:O	1:E:62:ARG:HG2	1.94	0.68
1:I:741:GLU:CD	5:T:22:TRP:CD1	2.67	0.68
1:J:61:GLN:NE2	1:J:623:HIS:HE1	1.91	0.68
1:K:22:TYR:CD1	1:K:22:TYR:C	2.66	0.68
1:I:748:VAL:HG22	1:I:749:ASP:N	2.07	0.68
1:F:264:GLN:O	1:F:266:PHE:CE1	2.45	0.68
1:G:187:VAL:CB	1:G:191:THR:O	2.40	0.68
1:C:400:ILE:CD1	1:C:476:ILE:HD13	2.20	0.68
1:J:551:ASN:HB3	1:L:521:ALA:CB	2.21	0.68
1:E:754:ASN:O	1:F:558:HIS:CE1	2.46	0.68
1:J:181:GLU:HB2	1:J:194:TYR:CE2	2.27	0.68
1:L:61:GLN:NE2	1:L:623:HIS:HE1	1.91	0.68
1:G:884:LEU:HB2	1:H:49:VAL:HA	1.75	0.68
1:G:942:THR:HB	4:P:29:THR:HB	1.73	0.68
1:K:891:LEU:CB	4:O:189:ILE:HG21	2.24	0.68
1:L:905:GLU:HB2	5:Q:22:TRP:CZ3	2.28	0.68
1:L:433:GLY:O	1:L:437:GLY:HA3	1.92	0.68
1:F:6:MET:HB3	1:F:7:PRO:HD3	1.73	0.68
1:A:62:ARG:HG2	1:C:734:ASP:O	1.94	0.68
1:E:187:VAL:CB	1:E:191:THR:O	2.40	0.68
1:I:187:VAL:CB	1:I:191:THR:O	2.40	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:777:TYR:CE1	1:B:63:LEU:HD21	2.29	0.68
1:I:737:LEU:CD1	1:I:753:TYR:CE2	2.76	0.68
1:H:914:LEU:HD21	5:S:19:MET:CE	2.24	0.68
1:E:839:GLN:NE2	1:F:131:PRO:HG2	2.07	0.68
1:B:34:THR:C	1:B:36:THR:H	1.97	0.68
1:I:61:GLN:NE2	1:I:623:HIS:HE1	1.92	0.68
3:N:248:VAL:HG21	3:N:255:GLY:HA2	1.74	0.68
1:A:7:PRO:CG	4:O:41:ILE:HD13	2.22	0.68
4:O:210:ASP:C	4:O:212:PHE:H	1.96	0.68
1:F:354:LEU:HD13	1:F:355:ASN:N	2.08	0.68
1:G:725:ASP:CG	4:P:13:TYR:O	2.32	0.68
1:H:13:HIS:HE1	1:H:22:TYR:CG	2.12	0.68
1:H:7:PRO:CB	4:P:47:ILE:O	2.41	0.68
1:J:438:TRP:CZ3	1:L:281:PRO:CD	2.76	0.68
1:E:896:SER:HB3	1:K:932:ARG:CZ	2.24	0.68
1:A:66:ARG:CD	1:A:615:TYR:CZ	2.74	0.68
1:G:19:ALA:CB	1:G:23:LEU:CD1	2.62	0.68
1:E:737:LEU:CD1	1:E:753:TYR:CE2	2.77	0.68
1:A:267:SER:O	1:B:425:LEU:HB3	1.93	0.68
1:D:61:GLN:NE2	1:D:623:HIS:HE1	1.91	0.68
1:A:240:THR:HG22	1:A:249:LEU:CD1	2.24	0.68
1:I:433:GLY:HA3	1:I:437:GLY:CA	2.24	0.68
1:I:240:THR:HG22	1:I:249:LEU:CD1	2.24	0.68
1:L:737:LEU:CD1	1:L:753:TYR:CE2	2.77	0.68
1:C:13:HIS:HE1	1:C:22:TYR:CG	2.12	0.68
1:G:463:LEU:HD23	1:I:463:LEU:CD1	2.14	0.68
5:Q:117:VAL:O	5:Q:121:LEU:HB2	1.93	0.68
1:B:187:VAL:CB	1:B:191:THR:O	2.40	0.68
5:R:117:VAL:O	5:R:121:LEU:HB2	1.93	0.68
3:N:62:VAL:HG13	3:N:62:VAL:O	1.93	0.68
1:A:8:GLN:HE22	4:O:34:MET:HA	1.58	0.68
1:A:432:THR:HG21	1:A:439:GLU:OE2	1.93	0.68
1:C:240:THR:HG22	1:C:249:LEU:CD1	2.24	0.68
1:L:240:THR:HG22	1:L:249:LEU:HD11	1.73	0.68
1:C:949:ALA:HA	1:K:341:THR:CG2	2.24	0.68
1:F:59:ARG:CA	1:K:60:SER:CB	2.63	0.68
1:H:65:LEU:HD13	1:J:353:GLN:OE1	1.92	0.68
1:I:229:MET:HE3	1:I:314:MET:HG2	1.72	0.68
3:N:275:PHE:HE2	4:O:62:THR:HG23	1.52	0.68
1:G:453:VAL:HG22	1:I:283:VAL:HG21	1.76	0.68
1:G:642:PHE:CE2	1:H:43:LYS:HA	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:570:ASN:HB3	1:H:42:ASN:ND2	2.09	0.68
1:K:842:PRO:HG2	1:L:246:GLN:HE22	1.59	0.68
1:K:737:LEU:CD1	1:K:753:TYR:CE2	2.77	0.68
1:F:941:ARG:HD2	1:F:944:PHE:O	1.93	0.68
1:D:820:HIS:HA	1:E:204:GLN:HE22	1.59	0.68
1:B:61:GLN:NE2	1:B:623:HIS:HE1	1.92	0.68
1:K:207:GLU:CG	1:K:215:ILE:HD11	2.24	0.68
1:H:207:GLU:CG	1:H:215:ILE:HD11	2.24	0.68
1:F:240:THR:HG22	1:F:249:LEU:CD1	2.24	0.68
1:J:894:ALA:CB	4:P:14:GLN:NE2	2.52	0.68
1:H:61:GLN:NE2	1:H:623:HIS:HE1	1.92	0.68
1:K:240:THR:HG22	1:K:249:LEU:CD1	2.24	0.68
1:D:737:LEU:CD1	1:D:753:TYR:CE2	2.76	0.68
1:F:13:HIS:HE1	1:F:22:TYR:CG	2.12	0.68
1:B:938:VAL:O	1:C:12:MET:HE1	1.93	0.68
1:J:229:MET:HE1	1:J:314:MET:CG	2.08	0.68
1:I:6:MET:HB3	1:I:7:PRO:HD3	1.73	0.68
1:B:19:ALA:CB	1:B:23:LEU:CD1	2.62	0.68
1:J:264:GLN:O	1:J:266:PHE:CE1	2.47	0.68
1:D:400:ILE:CD1	1:D:476:ILE:HD13	2.20	0.68
1:C:941:ARG:HD2	1:C:944:PHE:O	1.94	0.68
1:I:30:PHE:CZ	1:I:34:THR:HG21	2.29	0.68
1:B:301:TYR:CZ	1:C:208:SER:HB3	2.29	0.68
1:L:30:PHE:CZ	1:L:34:THR:HG21	2.29	0.68
1:F:34:THR:C	1:F:36:THR:H	1.97	0.68
1:J:728:VAL:O	1:J:728:VAL:HG23	1.92	0.68
1:A:22:TYR:CD1	1:A:22:TYR:C	2.66	0.68
1:D:8:GLN:NE2	4:P:34:MET:HB3	2.08	0.68
1:K:68:ILE:HG22	1:K:69:PRO:N	2.07	0.68
1:B:264:GLN:O	1:B:266:PHE:CE1	2.46	0.68
1:D:751:GLU:HB2	1:E:103:ARG:NH2	2.09	0.68
1:G:131:PRO:HG2	1:I:839:GLN:NE2	2.09	0.68
1:I:34:THR:C	1:I:36:THR:H	1.97	0.68
1:K:30:PHE:CZ	1:K:34:THR:HG21	2.29	0.68
1:G:30:PHE:CZ	1:G:34:THR:HG21	2.29	0.68
1:A:34:THR:C	1:A:36:THR:H	1.97	0.68
1:A:8:GLN:CA	1:A:8:GLN:OE1	2.37	0.68
1:L:8:GLN:NE2	4:O:31:ILE:HD12	2.08	0.68
1:F:348:ALA:O	1:F:579:THR:HG22	1.94	0.68
1:H:22:TYR:C	1:H:22:TYR:CD1	2.66	0.68
1:K:891:LEU:HD11	3:N:294:GLU:CD	2.14	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:39:PRO:CG	3:N:27:TRP:CB	2.53	0.68
1:K:13:HIS:HE1	1:K:22:TYR:CG	2.12	0.68
1:A:246:GLN:HE21	1:C:844:ASN:HB2	1.52	0.68
1:L:187:VAL:CB	1:L:191:THR:O	2.41	0.68
1:H:737:LEU:O	1:I:62:ARG:NH2	2.27	0.68
1:G:61:GLN:NE2	1:G:623:HIS:HE1	1.91	0.68
1:G:572:LEU:HD22	1:H:40:LEU:CD2	2.24	0.68
1:J:663:PRO:HD2	5:Q:92:ARG:CZ	2.24	0.68
1:G:181:GLU:HB2	1:G:194:TYR:CE2	2.28	0.68
5:R:47:LEU:O	5:R:47:LEU:HG	1.93	0.68
1:H:75:THR:CG2	1:H:76:ALA:N	2.57	0.68
2:M:98:ASN:O	2:M:99:ASN:HB3	1.93	0.68
1:B:207:GLU:CG	1:B:215:ILE:HD11	2.24	0.68
1:A:13:HIS:HE1	1:A:22:TYR:CG	2.12	0.67
1:F:948:ASN:CB	1:G:358:VAL:HG22	2.25	0.67
1:K:893:TYR:HA	1:K:898:HIS:NE2	2.08	0.67
1:K:433:GLY:HA3	1:K:437:GLY:CA	2.24	0.67
1:A:432:THR:CG2	1:A:439:GLU:OE2	2.42	0.67
1:J:240:THR:HG22	1:J:249:LEU:CD1	2.24	0.67
1:J:889:GLN:CG	4:P:17:MET:CE	2.72	0.67
1:H:65:LEU:CB	1:J:353:GLN:NE2	2.55	0.67
1:D:24:SER:N	1:F:638:ASN:OD1	2.26	0.67
1:A:68:ILE:HG12	1:E:73:GLU:N	2.09	0.67
1:C:22:TYR:C	1:C:22:TYR:CD1	2.66	0.67
1:E:22:TYR:C	1:E:22:TYR:CD1	2.66	0.67
3:N:279:THR:CG2	4:O:80:TYR:OH	2.41	0.67
1:E:519:LEU:HD12	1:F:119:ALA:HB2	1.76	0.67
1:H:240:THR:HG22	1:H:249:LEU:CD1	2.24	0.67
1:F:22:TYR:CD1	1:F:22:TYR:C	2.66	0.67
1:A:269:THR:HG22	1:A:269:THR:O	1.95	0.67
1:F:737:LEU:CD1	1:F:753:TYR:CE2	2.77	0.67
1:A:131:PRO:HG2	1:C:839:GLN:HE21	1.59	0.67
1:D:207:GLU:CG	1:D:215:ILE:HD11	2.24	0.67
1:E:949:ALA:N	1:E:950:THR:CA	2.48	0.67
1:J:556:PRO:HD2	1:L:859:THR:OG1	1.94	0.67
1:G:433:GLY:HA3	1:G:437:GLY:CA	2.23	0.67
1:E:733:ASN:HB3	1:F:60:SER:HA	1.75	0.67
1:C:229:MET:HE3	1:C:314:MET:HG2	1.73	0.67
1:G:556:PRO:HD2	1:I:859:THR:OG1	1.94	0.67
1:C:219:ALA:HA	1:C:284:VAL:O	1.94	0.67
1:B:737:LEU:CD1	1:B:753:TYR:CE2	2.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:400:ILE:CD1	1:G:476:ILE:HD13	2.20	0.67
1:B:692:SER:N	2:M:81:SER:O	2.27	0.67
1:C:75:THR:OG1	1:K:697:TYR:CE2	2.43	0.67
1:L:34:THR:C	1:L:36:THR:H	1.97	0.67
1:F:30:PHE:CZ	1:F:34:THR:HG21	2.29	0.67
1:A:30:PHE:CZ	1:A:34:THR:HG21	2.29	0.67
1:G:207:GLU:CG	1:G:215:ILE:HD11	2.24	0.67
4:P:6:PRO:HG3	4:P:198:PHE:H	1.60	0.67
1:F:667:PRO:CB	1:G:70:VAL:HG11	2.07	0.67
1:L:748:VAL:CG1	5:Q:51:THR:O	2.42	0.67
1:G:432:THR:CG2	1:G:439:GLU:OE2	2.41	0.67
1:H:428:VAL:HG11	1:H:438:TRP:HE3	1.59	0.67
1:E:431:LYS:O	1:E:432:THR:CB	2.34	0.67
1:I:433:GLY:O	1:I:437:GLY:CA	2.43	0.67
1:D:240:THR:HG22	1:D:249:LEU:CD1	2.24	0.67
1:J:13:HIS:HE1	1:J:22:TYR:CG	2.12	0.67
1:H:737:LEU:CD1	1:H:753:TYR:CE2	2.77	0.67
1:K:730:TRP:CD1	1:K:731:PRO:HA	2.28	0.67
1:J:30:PHE:CZ	1:J:34:THR:HG21	2.29	0.67
1:E:34:THR:C	1:E:36:THR:H	1.97	0.67
1:K:827:PHE:CE2	1:L:124:ALA:HB2	2.30	0.67
1:A:24:SER:HB3	4:O:201:PHE:HB2	1.75	0.67
3:N:234:LEU:HD22	4:O:198:PHE:CG	2.29	0.67
1:G:891:LEU:HB3	1:G:895:ASN:HD21	1.55	0.67
1:C:341:THR:CG2	1:K:693:GLY:H	2.07	0.67
1:G:737:LEU:CD1	1:G:753:TYR:CE2	2.76	0.67
1:D:737:LEU:O	1:E:62:ARG:NH2	2.27	0.67
1:A:61:GLN:NE2	1:A:623:HIS:HE1	1.91	0.67
2:M:101:TYR:CD2	2:M:105:GLU:HG2	2.29	0.67
1:E:13:HIS:HE1	1:E:22:TYR:CG	2.12	0.67
1:J:6:MET:HB3	1:J:7:PRO:HD3	1.74	0.67
1:K:63:LEU:HD23	1:K:618:PHE:O	1.95	0.67
1:G:267:SER:O	1:H:425:LEU:HB3	1.95	0.67
1:C:75:THR:CG2	1:C:76:ALA:N	2.57	0.67
1:E:30:PHE:CZ	1:E:34:THR:HG21	2.29	0.67
1:H:411:ASN:HD21	1:I:470:ASN:HD21	1.41	0.67
1:B:75:THR:CG2	1:B:76:ALA:N	2.57	0.67
1:A:96:ALA:O	1:C:779:GLY:HA2	1.95	0.67
1:J:207:GLU:CG	1:J:215:ILE:HD11	2.24	0.67
1:D:779:GLY:HA2	1:E:96:ALA:O	1.94	0.67
3:N:194:GLN:HA	4:O:207:HIS:CA	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:891:LEU:HD21	1:H:2:THR:CG2	2.17	0.67
1:B:432:THR:HG21	1:B:439:GLU:OE2	1.92	0.67
1:H:431:LYS:O	1:H:432:THR:CB	2.34	0.67
1:H:229:MET:HE3	1:H:314:MET:HG2	1.74	0.67
1:I:400:ILE:CD1	1:I:476:ILE:HD13	2.20	0.67
1:A:890:ASN:ND2	1:A:892:LEU:H	1.93	0.67
1:F:890:ASN:ND2	1:F:892:LEU:H	1.93	0.67
1:H:267:SER:O	1:I:425:LEU:CD2	2.41	0.67
1:C:30:PHE:CZ	1:C:34:THR:HG21	2.29	0.67
1:L:207:GLU:CG	1:L:215:ILE:HD11	2.24	0.67
1:D:34:THR:C	1:D:36:THR:H	1.97	0.67
1:D:75:THR:CG2	1:D:76:ALA:N	2.57	0.67
5:Q:79:PHE:O	5:Q:80:ALA:HB3	1.95	0.67
1:A:7:PRO:CB	4:O:41:ILE:CD1	2.57	0.67
1:J:432:THR:CG2	1:J:439:GLU:OE2	2.43	0.67
1:B:240:THR:HG22	1:B:249:LEU:CD1	2.24	0.67
1:G:734:ASP:O	1:H:62:ARG:HA	1.94	0.67
1:C:19:ALA:CB	1:C:23:LEU:CD1	2.62	0.67
1:I:741:GLU:OE2	5:T:22:TRP:CD1	2.48	0.67
1:G:229:MET:HE1	1:G:314:MET:CG	2.05	0.67
1:L:13:HIS:HE1	1:L:22:TYR:CG	2.12	0.67
1:B:13:HIS:HE1	1:B:22:TYR:CG	2.12	0.67
1:I:13:HIS:HE1	1:I:22:TYR:CG	2.12	0.67
1:B:269:THR:O	1:B:269:THR:HG22	1.94	0.67
1:D:748:VAL:HG22	1:D:749:ASP:N	2.09	0.67
1:D:30:PHE:CZ	1:D:34:THR:HG21	2.29	0.67
1:I:75:THR:CG2	1:I:76:ALA:N	2.57	0.67
1:J:451:ILE:HD13	1:L:285:LEU:HD11	1.76	0.67
1:F:948:ASN:HB3	1:G:358:VAL:CG1	2.16	0.67
1:E:180:LYS:HE3	1:F:430:PRO:HG3	1.74	0.67
1:L:433:GLY:HA3	1:L:437:GLY:CA	2.22	0.67
1:D:438:TRP:N	1:D:438:TRP:CD1	2.62	0.67
1:K:5:MET:O	1:K:6:MET:HB2	1.94	0.67
1:K:68:ILE:HG22	1:K:69:PRO:HD2	1.76	0.67
1:I:861:LYS:HZ1	5:T:52:VAL:HG12	1.60	0.67
1:C:282:LYS:O	1:C:283:VAL:CG2	2.37	0.67
1:D:269:THR:O	1:D:269:THR:HG22	1.95	0.67
1:F:75:THR:CG2	1:F:76:ALA:N	2.58	0.67
1:A:40:LEU:CD2	1:C:572:LEU:HD22	2.24	0.67
1:G:777:TYR:CE1	1:H:63:LEU:HD22	2.25	0.67
1:D:759:ASN:CB	5:R:50:GLU:OE1	2.43	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:75:THR:CG2	1:K:76:ALA:N	2.58	0.67
1:E:207:GLU:CG	1:E:215:ILE:HD11	2.24	0.67
1:C:207:GLU:CG	1:C:215:ILE:HD11	2.24	0.67
1:K:285:LEU:HD11	1:L:451:ILE:HD13	1.75	0.67
1:K:788:ASP:OD2	1:L:381:ARG:NH2	2.26	0.67
1:E:75:THR:CG2	1:E:76:ALA:N	2.57	0.67
1:G:890:ASN:ND2	1:G:892:LEU:H	1.93	0.67
1:L:240:THR:HG22	1:L:249:LEU:CD1	2.24	0.67
1:J:895:ASN:CB	4:P:214:PRO:O	2.43	0.67
1:A:68:ILE:HD12	1:A:69:PRO:CD	2.25	0.67
4:P:159:ARG:HB3	4:P:160:PRO:CD	2.18	0.67
1:C:624:ASN:HB3	4:O:221:ASP:CB	2.19	0.67
1:C:269:THR:HG22	1:C:269:THR:O	1.95	0.67
1:G:269:THR:O	1:G:269:THR:HG22	1.94	0.67
1:A:438:TRP:HB2	1:C:279:LEU:HB3	1.76	0.67
1:A:737:LEU:CD1	1:A:753:TYR:CE2	2.77	0.67
1:J:94:ASP:OD2	1:K:43:LYS:NZ	2.27	0.67
1:K:34:THR:C	1:K:36:THR:H	1.97	0.67
1:L:75:THR:CG2	1:L:76:ALA:N	2.57	0.67
1:A:75:THR:CG2	1:A:76:ALA:N	2.57	0.67
1:A:207:GLU:CG	1:A:215:ILE:HD11	2.24	0.67
1:G:670:ASN:HA	1:G:897:ALA:HB2	1.77	0.67
1:C:890:ASN:ND2	1:C:892:LEU:H	1.93	0.67
1:F:432:THR:CG2	1:F:439:GLU:OE2	2.42	0.67
1:E:433:GLY:O	1:E:437:GLY:CA	2.43	0.67
1:D:438:TRP:CZ3	1:F:281:PRO:HD3	2.29	0.67
1:A:68:ILE:HG12	1:E:73:GLU:CB	2.24	0.67
1:E:6:MET:HB3	1:E:7:PRO:HD3	1.74	0.67
1:L:890:ASN:ND2	1:L:892:LEU:H	1.93	0.67
1:G:264:GLN:O	1:G:266:PHE:CE1	2.47	0.67
1:H:187:VAL:CB	1:H:191:THR:O	2.40	0.67
1:F:269:THR:O	1:F:269:THR:HG22	1.95	0.67
1:G:34:THR:C	1:G:36:THR:H	1.97	0.67
1:G:75:THR:CG2	1:G:76:ALA:N	2.57	0.67
1:H:602:VAL:O	1:H:602:VAL:CG1	2.43	0.67
1:I:207:GLU:CG	1:I:215:ILE:HD11	2.24	0.67
1:B:94:ASP:OD2	1:C:43:LYS:NZ	2.25	0.67
4:O:6:PRO:HG3	4:O:198:PHE:H	1.59	0.66
1:E:240:THR:HG22	1:E:249:LEU:CD1	2.24	0.66
1:L:751:GLU:OE2	5:Q:52:VAL:CG1	2.37	0.66
1:G:430:PRO:CG	1:I:180:LYS:CE	2.71	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:432:THR:HG21	1:D:439:GLU:OE2	1.95	0.66
1:J:62:ARG:HG2	1:L:734:ASP:O	1.95	0.66
1:D:13:HIS:HE1	1:D:22:TYR:CG	2.12	0.66
1:D:24:SER:HB3	1:F:638:ASN:ND2	2.10	0.66
1:E:858:ILE:HD11	5:Q:112:ARG:HH21	1.55	0.66
1:K:411:ASN:HD21	1:L:470:ASN:HD21	1.40	0.66
4:O:29:THR:O	4:O:29:THR:HG22	1.94	0.66
4:P:8:PRO:HB3	4:P:51:ARG:HH11	1.58	0.66
3:N:290:THR:O	3:N:294:GLU:HG3	1.93	0.66
1:K:433:GLY:O	1:K:437:GLY:CA	2.44	0.66
1:B:941:ARG:HH22	2:M:108:THR:HG21	1.58	0.66
1:B:891:LEU:C	1:B:891:LEU:HD23	2.16	0.66
3:N:272:GLU:HG2	4:O:61:ILE:HA	1.76	0.66
1:F:187:VAL:CB	1:F:191:THR:O	2.40	0.66
1:E:890:ASN:ND2	1:E:892:LEU:H	1.93	0.66
1:J:751:GLU:HB2	1:K:103:ARG:NH2	2.10	0.66
1:D:941:ARG:HD2	1:D:944:PHE:O	1.95	0.66
3:N:179:GLU:OE2	4:O:207:HIS:CE1	2.49	0.66
1:F:636:ASP:H	4:P:25:GLN:NE2	1.90	0.66
1:G:240:THR:HG22	1:G:249:LEU:CD1	2.24	0.66
1:F:90:ASN:ND2	4:P:222:SER:CB	2.48	0.66
1:G:13:HIS:HE1	1:G:22:TYR:CG	2.12	0.66
1:B:463:LEU:CD1	1:C:463:LEU:HD23	2.16	0.66
1:L:264:GLN:O	1:L:266:PHE:CE1	2.48	0.66
1:H:587:ASP:OD1	1:H:601:ARG:NE	2.28	0.66
1:H:890:ASN:ND2	1:H:892:LEU:H	1.93	0.66
1:H:820:HIS:HA	1:I:204:GLN:HE22	1.59	0.66
1:H:30:PHE:CZ	1:H:34:THR:HG21	2.29	0.66
1:B:30:PHE:CZ	1:B:34:THR:HG21	2.29	0.66
1:F:207:GLU:CG	1:F:215:ILE:HD11	2.24	0.66
3:N:240:ALA:HB3	3:N:241:PRO:HD3	1.76	0.66
5:Q:82:LEU:HB3	5:Q:84:PRO:HD2	1.77	0.66
1:F:897:ALA:HB2	1:G:350:GLN:CB	2.24	0.66
1:F:948:ASN:N	1:F:949:ALA:HB3	2.09	0.66
1:B:946:ALA:N	2:M:109:GLN:CA	2.35	0.66
1:I:6:MET:HB2	1:I:7:PRO:HD2	1.76	0.66
3:N:229:THR:HG23	4:O:4:GLU:CG	2.26	0.66
2:M:56:ARG:HB2	2:M:112:ASN:HB2	1.78	0.66
1:A:747:SER:O	1:A:749:ASP:N	2.29	0.66
1:J:747:SER:O	1:J:749:ASP:N	2.29	0.66
3:N:142:ALA:HB1	3:N:180:VAL:HG22	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:747:SER:O	1:K:749:ASP:N	2.29	0.66
1:D:778:GLN:NE2	1:E:94:ASP:OD2	2.27	0.66
1:K:669:ARG:O	4:O:10:MET:HE1	1.94	0.66
1:G:945:SER:HB3	4:P:28:SER:C	2.16	0.66
4:P:44:VAL:HA	4:P:47:ILE:HD11	1.78	0.66
1:B:249:LEU:CD2	1:B:257:LEU:HD11	2.20	0.66
1:K:432:THR:HG21	1:K:439:GLU:OE2	1.93	0.66
1:B:432:THR:CG2	1:B:439:GLU:OE2	2.43	0.66
1:A:59:ARG:HD2	1:E:354:LEU:CD2	2.21	0.66
1:J:554:TYR:CE1	5:Q:57:LEU:CD1	2.77	0.66
2:M:152:LEU:HB3	2:M:153:PRO:CD	2.26	0.66
1:G:663:PRO:CG	1:J:667:PRO:HG3	2.26	0.66
1:J:411:ASN:HD21	1:K:470:ASN:HD21	1.41	0.66
1:E:820:HIS:HD2	1:F:202:GLU:OE1	1.78	0.66
5:Q:84:PRO:C	5:Q:86:ALA:H	1.98	0.66
1:A:8:GLN:HE22	4:O:34:MET:CB	2.07	0.66
1:C:893:TYR:CZ	1:E:950:THR:HG23	2.31	0.66
1:D:437:GLY:C	1:D:438:TRP:HD1	1.99	0.66
1:I:890:ASN:ND2	1:I:892:LEU:H	1.93	0.66
1:D:25:PRO:CD	4:P:202:SER:HA	2.24	0.66
1:J:34:THR:C	1:J:36:THR:H	1.97	0.66
1:J:269:THR:HG22	1:J:269:THR:O	1.95	0.66
1:J:75:THR:CG2	1:J:76:ALA:N	2.58	0.66
3:N:196:LEU:O	3:N:197:GLN:HB2	1.96	0.66
1:D:8:GLN:NE2	4:P:34:MET:CB	2.58	0.66
5:Q:46:THR:O	5:Q:49:TYR:CE1	2.48	0.66
1:J:433:GLY:O	1:J:437:GLY:CA	2.44	0.66
1:D:433:GLY:O	1:D:437:GLY:CA	2.44	0.66
1:J:762:LYS:HE2	1:K:615:TYR:CE2	2.31	0.66
1:G:601:ARG:CZ	1:G:694:TYR:OH	2.44	0.66
1:H:269:THR:HG22	1:H:269:THR:O	1.95	0.66
1:E:415:PRO:HD3	1:E:457:PHE:O	1.96	0.66
1:E:723:THR:O	1:E:900:LEU:HD12	1.95	0.66
1:C:635:ASN:HA	4:O:25:GLN:OE1	1.96	0.66
1:G:940:LEU:CG	4:P:31:ILE:HG12	2.25	0.66
1:E:180:LYS:CD	1:F:430:PRO:HG3	2.26	0.66
1:K:432:THR:CG2	1:K:439:GLU:OE2	2.43	0.66
1:E:633:LEU:HD23	1:E:638:ASN:HD22	1.54	0.66
1:G:229:MET:HE3	1:G:314:MET:CG	2.24	0.66
1:B:890:ASN:ND2	1:B:892:LEU:H	1.93	0.66
1:A:186:GLY:O	1:A:187:VAL:CG1	2.44	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:186:GLY:O	1:D:187:VAL:CG1	2.44	0.66
1:K:269:THR:O	1:K:269:THR:HG22	1.95	0.66
1:L:269:THR:O	1:L:269:THR:HG22	1.95	0.66
1:H:747:SER:O	1:H:749:ASP:N	2.29	0.66
3:N:87:ARG:CZ	3:N:90:GLU:OE1	2.43	0.66
3:N:193:ARG:CB	4:O:207:HIS:CD2	2.79	0.66
1:A:89:ASP:H	1:E:353:GLN:HB3	1.60	0.66
1:C:432:THR:CG2	1:C:439:GLU:OE2	2.43	0.66
1:F:6:MET:HB2	1:F:7:PRO:HD2	1.76	0.66
1:A:70:VAL:HG23	1:E:70:VAL:O	1.95	0.66
1:D:229:MET:HE3	1:D:314:MET:HG2	1.76	0.66
1:H:186:GLY:O	1:H:187:VAL:CG1	2.44	0.66
1:G:186:GLY:O	1:G:187:VAL:CG1	2.44	0.66
1:H:282:LYS:O	1:H:283:VAL:HG23	1.95	0.66
1:E:737:LEU:HA	1:F:62:ARG:HH21	1.60	0.66
1:A:202:GLU:OE1	1:C:820:HIS:HD2	1.79	0.66
1:C:415:PRO:HD3	1:C:457:PHE:O	1.96	0.66
1:J:730:TRP:HA	4:P:226:TYR:O	1.96	0.66
1:L:719:LYS:NZ	5:Q:22:TRP:HB3	2.11	0.66
1:F:433:GLY:HA3	1:F:437:GLY:CA	2.23	0.66
1:A:260:GLN:O	1:A:261:VAL:CB	2.44	0.66
1:C:433:GLY:HA3	1:C:437:GLY:CA	2.24	0.66
1:A:68:ILE:HG13	1:E:72:ARG:O	1.96	0.66
1:K:727:SER:CB	4:O:15:PRO:CG	2.73	0.66
1:C:218:ALA:O	1:C:283:VAL:HA	1.95	0.66
1:B:186:GLY:O	1:B:187:VAL:CG1	2.44	0.66
1:L:186:GLY:O	1:L:187:VAL:CG1	2.44	0.66
1:I:186:GLY:O	1:I:187:VAL:CG1	2.44	0.66
1:A:42:ASN:ND2	1:C:570:ASN:HB3	2.11	0.66
1:I:823:ASN:O	1:I:824:ASN:HB2	1.96	0.66
1:E:747:SER:O	1:E:749:ASP:N	2.29	0.66
1:F:415:PRO:HD3	1:F:457:PHE:O	1.96	0.66
1:G:827:PHE:CE2	1:H:124:ALA:HB2	2.30	0.66
1:C:632:MET:O	1:C:638:ASN:ND2	2.28	0.65
1:F:610:ASP:OD2	5:T:99:LYS:HB2	1.95	0.65
1:J:433:GLY:HA3	1:J:437:GLY:CA	2.23	0.65
1:C:947:GLY:CA	1:K:344:MET:CE	2.73	0.65
1:K:68:ILE:HG22	1:K:69:PRO:CD	2.25	0.65
1:B:941:ARG:HH22	2:M:108:THR:CG2	2.09	0.65
1:I:747:SER:O	1:I:749:ASP:N	2.29	0.65
1:E:269:THR:O	1:E:269:THR:HG22	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:269:THR:O	1:I:269:THR:HG22	1.95	0.65
1:D:890:ASN:ND2	1:D:892:LEU:H	1.93	0.65
1:J:635:ASN:CB	4:P:173:THR:HG21	2.22	0.65
3:N:169:ARG:NH1	3:N:169:ARG:CG	2.51	0.65
1:J:519:LEU:HD22	1:K:115:TYR:CG	2.31	0.65
1:E:749:ASP:N	1:E:749:ASP:OD1	2.29	0.65
1:J:654:PRO:HG3	5:Q:84:PRO:CD	2.26	0.65
1:A:25:PRO:CB	4:O:203:GLY:H	2.03	0.65
1:G:924:VAL:HG21	1:H:14:ILE:HD13	1.74	0.65
1:J:895:ASN:ND2	1:J:896:SER:N	2.18	0.65
1:B:941:ARG:CD	1:B:944:PHE:O	2.43	0.65
1:C:740:ASN:N	1:E:341:THR:HG21	2.11	0.65
1:K:463:LEU:CD1	1:L:463:LEU:HD23	2.15	0.65
1:B:891:LEU:CB	3:N:93:LEU:CB	2.74	0.65
1:E:858:ILE:CG1	5:Q:112:ARG:HH21	2.09	0.65
5:Q:55:THR:HG23	5:Q:55:THR:O	1.94	0.65
1:B:282:LYS:O	1:B:283:VAL:HG23	1.97	0.65
1:G:282:LYS:O	1:G:283:VAL:HG23	1.96	0.65
1:E:737:LEU:CB	1:E:753:TYR:CE2	2.69	0.65
5:R:40:LEU:HD13	5:R:46:THR:CG2	2.26	0.65
1:B:747:SER:O	1:B:749:ASP:N	2.29	0.65
1:G:519:LEU:HD12	1:H:119:ALA:HB2	1.77	0.65
1:D:823:ASN:O	1:D:824:ASN:HB2	1.96	0.65
1:K:942:THR:HG21	4:O:29:THR:CG2	2.23	0.65
1:J:658:ASN:O	5:R:130:ALA:HA	1.96	0.65
1:F:667:PRO:HB3	1:G:70:VAL:CG2	2.27	0.65
1:J:430:PRO:HG3	1:L:180:LYS:HE3	1.73	0.65
1:I:432:THR:CG2	1:I:439:GLU:OE2	2.44	0.65
1:C:433:GLY:O	1:C:437:GLY:CA	2.44	0.65
1:K:180:LYS:HE3	1:L:430:PRO:CG	2.25	0.65
4:P:183:ILE:CG2	4:P:187:GLN:HB3	2.26	0.65
1:J:445:PHE:H	1:L:165:THR:N	1.94	0.65
1:H:400:ILE:CD1	1:H:476:ILE:HD13	2.20	0.65
1:G:95:MET:SD	1:G:573:LEU:CD1	2.85	0.65
1:L:95:MET:SD	1:L:573:LEU:CD1	2.85	0.65
1:E:570:ASN:HB3	1:F:42:ASN:ND2	2.12	0.65
1:F:637:THR:OG1	4:P:200:PRO:CG	2.44	0.65
1:E:820:HIS:HA	1:F:204:GLN:HE22	1.61	0.65
1:A:285:LEU:HD11	1:B:451:ILE:HD13	1.78	0.65
1:J:415:PRO:HD3	1:J:457:PHE:O	1.96	0.65
1:L:823:ASN:O	1:L:824:ASN:HB2	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:747:SER:O	1:F:749:ASP:N	2.29	0.65
1:K:943:PRO:HA	4:O:28:SER:O	1.96	0.65
1:F:608:LYS:NZ	1:F:610:ASP:OD2	2.28	0.65
1:F:433:GLY:O	1:F:437:GLY:CA	2.44	0.65
1:K:180:LYS:CD	1:L:430:PRO:HG3	2.25	0.65
1:D:432:THR:CG2	1:D:439:GLU:OE2	2.44	0.65
1:J:891:LEU:HD23	4:P:72:ARG:HH11	1.60	0.65
1:K:13:HIS:NE2	1:K:22:TYR:CZ	2.65	0.65
3:N:272:GLU:HG2	4:O:61:ILE:O	1.97	0.65
1:F:186:GLY:O	1:F:187:VAL:CG1	2.44	0.65
1:C:278:ASN:C	1:C:280:THR:H	2.00	0.65
1:K:415:PRO:HD3	1:K:457:PHE:O	1.96	0.65
1:G:747:SER:O	1:G:749:ASP:N	2.29	0.65
1:I:415:PRO:HD3	1:I:457:PHE:O	1.96	0.65
1:A:823:ASN:O	1:A:824:ASN:HB2	1.96	0.65
1:A:13:HIS:NE2	1:A:22:TYR:CZ	2.65	0.65
1:G:352:SER:O	1:G:353:GLN:CG	2.38	0.65
1:L:278:ASN:C	1:L:280:THR:H	2.00	0.65
1:F:260:GLN:O	1:F:261:VAL:CB	2.44	0.65
1:C:737:LEU:HD12	1:C:763:ASP:CG	2.16	0.65
1:L:13:HIS:NE2	1:L:22:TYR:CZ	2.65	0.65
1:K:186:GLY:O	1:K:187:VAL:CG1	2.44	0.65
1:D:861:LYS:HZ1	5:R:52:VAL:HG21	1.62	0.65
1:B:73:GLU:CG	2:M:456:GLN:NE2	2.59	0.65
4:O:68:ASN:O	4:O:70:ASN:N	2.30	0.65
1:I:34:THR:O	1:I:36:THR:N	2.30	0.65
1:L:680:THR:HG23	1:L:714:ASN:OD1	1.97	0.65
1:A:114:PRO:O	1:C:520:GLY:HA2	1.96	0.65
1:C:747:SER:O	1:C:749:ASP:N	2.29	0.65
4:O:23:ALA:HB3	4:O:212:PHE:CD2	2.32	0.65
1:C:728:VAL:HG23	1:C:728:VAL:O	1.94	0.65
1:C:893:TYR:CE2	1:E:950:THR:CA	2.69	0.65
1:B:430:PRO:HA	1:B:438:TRP:CD1	2.32	0.65
1:H:281:PRO:HD3	1:I:438:TRP:CZ2	2.31	0.65
1:D:260:GLN:O	1:D:261:VAL:CB	2.44	0.65
1:K:3:PRO:HG3	1:K:11:TYR:HE2	1.56	0.65
1:G:13:HIS:NE2	1:G:22:TYR:CZ	2.65	0.65
1:I:13:HIS:NE2	1:I:22:TYR:CZ	2.65	0.65
1:E:186:GLY:O	1:E:187:VAL:CG1	2.44	0.65
1:A:188:GLU:HG3	1:A:193:LYS:CE	2.27	0.65
1:L:188:GLU:HG3	1:L:193:LYS:CE	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:400:ILE:CD1	1:F:476:ILE:HD13	2.20	0.65
1:J:278:ASN:C	1:J:280:THR:H	2.00	0.65
1:E:642:PHE:CE2	1:F:43:LYS:HA	2.32	0.65
1:G:726:SER:HB2	1:J:670:ASN:HB3	1.77	0.65
1:E:680:THR:HG23	1:E:714:ASN:OD1	1.97	0.65
5:R:18:ARG:O	5:R:19:MET:HB2	1.96	0.65
1:F:823:ASN:O	1:F:824:ASN:HB2	1.96	0.65
1:K:756:ALA:HA	1:L:385:MET:HA	1.78	0.65
1:B:680:THR:HG23	1:B:714:ASN:OD1	1.97	0.65
1:K:948:ASN:OD1	4:O:33:TYR:N	2.30	0.65
1:F:608:LYS:HE2	5:T:99:LYS:CB	2.26	0.65
1:K:891:LEU:CD1	3:N:294:GLU:OE2	2.44	0.65
1:E:278:ASN:C	1:E:280:THR:H	2.00	0.65
1:G:433:GLY:O	1:G:437:GLY:CA	2.45	0.65
1:B:433:GLY:HA3	1:B:437:GLY:CA	2.24	0.65
1:G:260:GLN:O	1:G:261:VAL:CB	2.44	0.65
1:C:260:GLN:O	1:C:261:VAL:CB	2.44	0.65
1:C:432:THR:HG21	1:C:439:GLU:OE2	1.95	0.65
1:F:13:HIS:NE2	1:F:22:TYR:CZ	2.65	0.65
1:E:427:LYS:HG3	1:E:445:PHE:HD2	1.40	0.65
5:Q:113:GLU:O	5:Q:117:VAL:HG23	1.97	0.65
1:J:105:VAL:HB	5:Q:56:PRO:HG2	1.78	0.65
1:J:188:GLU:HG3	1:J:193:LYS:CE	2.27	0.65
1:B:188:GLU:HG3	1:B:193:LYS:CE	2.27	0.65
1:F:188:GLU:HG3	1:F:193:LYS:CE	2.27	0.65
1:H:659:ALA:CB	5:S:11:VAL:HG21	2.27	0.65
1:E:521:ALA:CB	1:F:551:ASN:HB3	2.22	0.65
1:A:95:MET:SD	1:A:573:LEU:CD1	2.84	0.65
1:B:73:GLU:CG	2:M:456:GLN:HE21	2.09	0.65
1:H:823:ASN:O	1:H:824:ASN:HB2	1.96	0.65
1:D:415:PRO:HD3	1:D:457:PHE:O	1.96	0.65
1:D:680:THR:HG23	1:D:714:ASN:OD1	1.97	0.65
5:T:49:TYR:CD1	5:T:49:TYR:O	2.50	0.65
1:G:664:ILE:HG13	1:G:664:ILE:O	1.96	0.65
1:G:945:SER:CB	4:P:30:ARG:N	2.60	0.65
4:P:208:TYR:O	4:P:209:PRO:C	2.36	0.65
1:H:4:SER:HB2	4:P:54:ILE:HD11	1.79	0.65
1:L:260:GLN:O	1:L:261:VAL:CB	2.44	0.65
1:D:13:HIS:NE2	1:D:22:TYR:CZ	2.65	0.65
1:E:13:HIS:NE2	1:E:22:TYR:CZ	2.65	0.65
1:J:638:ASN:ND2	1:K:24:SER:CB	2.36	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:894:ALA:HB1	1:E:5:MET:HE2	1.77	0.65
1:C:348:ALA:CB	1:C:354:LEU:O	2.45	0.65
1:E:463:LEU:CD1	1:F:463:LEU:HD23	2.14	0.65
1:J:876:SER:CB	1:K:56:THR:HG21	2.16	0.65
1:J:186:GLY:O	1:J:187:VAL:CG1	2.44	0.65
1:C:186:GLY:O	1:C:187:VAL:CG1	2.44	0.65
1:K:95:MET:SD	1:K:573:LEU:CD1	2.85	0.65
1:G:40:LEU:CD2	1:I:572:LEU:HD22	2.26	0.65
1:F:34:THR:O	1:F:36:THR:N	2.30	0.65
1:J:827:PHE:CE2	1:K:124:ALA:HB2	2.32	0.65
1:L:415:PRO:HD3	1:L:457:PHE:O	1.96	0.65
1:H:415:PRO:HD3	1:H:457:PHE:O	1.96	0.65
4:O:219:VAL:O	4:O:220:LYS:HB2	1.96	0.65
1:C:636:ASP:OD2	1:K:949:ALA:CB	2.45	0.65
1:C:636:ASP:OD2	1:K:949:ALA:HB3	1.97	0.65
1:L:747:SER:O	1:L:749:ASP:N	2.28	0.65
1:B:260:GLN:O	1:B:261:VAL:CB	2.44	0.65
1:B:941:ARG:NH2	2:M:108:THR:CG2	2.60	0.65
1:C:8:GLN:O	1:C:11:TYR:N	2.30	0.65
3:N:271:ASP:CB	4:O:61:ILE:HG23	2.26	0.65
1:F:95:MET:SD	1:F:573:LEU:CD1	2.85	0.65
1:L:34:THR:O	1:L:36:THR:N	2.30	0.65
1:G:823:ASN:O	1:G:824:ASN:HB2	1.96	0.65
1:K:311:ARG:NH1	1:L:211:TYR:CE1	2.64	0.65
1:C:680:THR:HG23	1:C:714:ASN:OD1	1.97	0.65
1:B:415:PRO:HD3	1:B:457:PHE:O	1.96	0.65
5:Q:18:ARG:O	5:Q:19:MET:HB2	1.96	0.65
1:F:948:ASN:HB2	1:G:358:VAL:HA	1.78	0.65
1:E:260:GLN:O	1:E:261:VAL:CB	2.44	0.65
1:E:279:LEU:HB3	1:F:438:TRP:HB2	1.79	0.65
1:B:433:GLY:O	1:B:437:GLY:CA	2.45	0.65
1:A:433:GLY:O	1:A:437:GLY:HA3	1.96	0.65
1:L:433:GLY:O	1:L:437:GLY:CA	2.45	0.65
1:D:433:GLY:HA3	1:D:437:GLY:CA	2.24	0.65
1:G:737:LEU:CB	1:G:753:TYR:CE2	2.69	0.65
1:J:13:HIS:NE2	1:J:22:TYR:CZ	2.65	0.65
1:G:285:LEU:HD11	1:H:451:ILE:HD13	1.79	0.65
2:M:155:LYS:HG3	2:M:158:GLN:OE1	1.96	0.65
1:K:188:GLU:HG3	1:K:193:LYS:CE	2.27	0.65
1:J:400:ILE:CD1	1:J:476:ILE:HD13	2.20	0.65
1:A:762:LYS:HE2	1:B:615:TYR:CE2	2.32	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:202:GLU:OE1	1:L:820:HIS:CD2	2.50	0.65
1:A:278:ASN:C	1:A:280:THR:H	2.00	0.65
4:O:17:MET:SD	4:O:19:LEU:HD21	2.37	0.65
1:C:823:ASN:O	1:C:824:ASN:HB2	1.96	0.65
1:G:415:PRO:HD3	1:G:457:PHE:O	1.96	0.65
1:J:311:ARG:NH1	1:K:211:TYR:CE1	2.65	0.65
1:J:823:ASN:O	1:J:824:ASN:HB2	1.96	0.65
1:C:632:MET:CA	4:O:201:PHE:CE2	2.79	0.64
4:O:33:TYR:C	4:O:33:TYR:CD2	2.64	0.64
4:O:55:LEU:CD2	4:O:194:PRO:HB2	2.26	0.64
1:D:6:MET:HB3	1:D:7:PRO:HD3	1.74	0.64
1:J:260:GLN:O	1:J:261:VAL:CB	2.44	0.64
1:F:632:MET:CA	4:P:201:PHE:CD2	2.80	0.64
1:C:188:GLU:HG3	1:C:193:LYS:CE	2.27	0.64
1:D:124:ALA:HB2	1:F:827:PHE:CE2	2.32	0.64
1:J:680:THR:HG23	1:J:714:ASN:OD1	1.97	0.64
1:K:942:THR:HB	4:O:29:THR:CA	2.27	0.64
1:H:432:THR:HG22	1:H:439:GLU:HG3	1.77	0.64
1:G:733:ASN:O	1:H:61:GLN:N	2.30	0.64
1:H:62:ARG:NH1	1:J:354:LEU:HB2	2.11	0.64
1:B:13:HIS:NE2	1:B:22:TYR:CZ	2.65	0.64
1:E:188:GLU:HG3	1:E:193:LYS:CE	2.27	0.64
1:B:762:LYS:HE2	1:C:615:TYR:CE2	2.32	0.64
1:D:747:SER:O	1:D:749:ASP:N	2.30	0.64
1:I:282:LYS:O	1:I:283:VAL:HG23	1.97	0.64
1:E:95:MET:SD	1:E:573:LEU:CD1	2.85	0.64
1:C:95:MET:SD	1:C:573:LEU:CD1	2.85	0.64
1:A:755:VAL:HG13	1:A:762:LYS:CG	2.28	0.64
1:C:75:THR:CB	1:K:697:TYR:CE2	2.74	0.64
4:O:183:ILE:CG2	4:O:187:GLN:HB3	2.26	0.64
4:P:68:ASN:O	4:P:70:ASN:N	2.30	0.64
1:A:204:GLN:HE22	1:C:820:HIS:HA	1.60	0.64
1:G:519:LEU:HD22	1:H:115:TYR:CG	2.31	0.64
1:F:429:LYS:HE2	1:F:441:ASP:HA	1.80	0.64
3:N:263:GLU:O	3:N:267:GLN:HG3	1.97	0.64
1:A:6:MET:O	1:A:8:GLN:N	2.31	0.64
1:C:632:MET:HA	4:O:201:PHE:CD1	2.31	0.64
4:O:23:ALA:HB3	4:O:212:PHE:HD2	1.63	0.64
1:G:942:THR:HB	4:P:29:THR:CB	2.28	0.64
1:H:260:GLN:O	1:H:261:VAL:CB	2.44	0.64
1:J:892:LEU:HD23	4:P:225:GLY:N	2.09	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:260:GLN:O	1:K:261:VAL:CB	2.44	0.64
1:C:738:THR:O	1:C:740:ASN:N	2.30	0.64
1:D:188:GLU:HG3	1:D:193:LYS:CE	2.27	0.64
1:K:282:LYS:O	1:K:283:VAL:HG23	1.96	0.64
1:A:751:GLU:HB2	1:B:103:ARG:NH2	2.11	0.64
1:G:119:ALA:HB2	1:I:519:LEU:CD1	2.27	0.64
1:C:34:THR:O	1:C:36:THR:N	2.30	0.64
1:K:680:THR:HG23	1:K:714:ASN:OD1	1.97	0.64
1:B:411:ASN:HD21	1:C:470:ASN:HD21	1.45	0.64
3:N:14:LEU:O	3:N:18:PRO:HD2	1.97	0.64
1:F:348:ALA:HB2	1:F:354:LEU:O	1.95	0.64
1:H:3:PRO:CD	4:P:58:GLN:NE2	2.60	0.64
1:G:928:HIS:ND1	4:P:39:HIS:O	2.31	0.64
1:F:19:ALA:CB	1:F:23:LEU:CD1	2.62	0.64
1:I:861:LYS:NZ	5:T:52:VAL:HG12	2.12	0.64
2:M:48:PRO:N	3:N:106:ASN:HB2	2.11	0.64
1:B:737:LEU:HB3	1:B:753:TYR:OH	1.98	0.64
1:E:737:LEU:HB3	1:E:753:TYR:OH	1.98	0.64
3:N:191:THR:CG2	3:N:192:SER:N	2.60	0.64
1:B:278:ASN:C	1:B:280:THR:H	2.00	0.64
1:K:278:ASN:C	1:K:280:THR:H	2.01	0.64
1:J:49:VAL:HG13	1:L:884:LEU:HD23	1.80	0.64
1:I:429:LYS:HE2	1:I:441:ASP:HA	1.80	0.64
1:H:680:THR:HG23	1:H:714:ASN:OD1	1.97	0.64
1:C:928:HIS:CE1	4:O:30:ARG:NH2	2.66	0.64
1:C:893:TYR:CE1	1:E:950:THR:OG1	2.44	0.64
1:I:260:GLN:O	1:I:261:VAL:CB	2.44	0.64
1:F:278:ASN:C	1:F:280:THR:H	2.00	0.64
1:J:737:LEU:HB3	1:J:753:TYR:OH	1.98	0.64
1:L:737:LEU:HB3	1:L:753:TYR:OH	1.98	0.64
1:A:59:ARG:HH11	1:E:354:LEU:HD23	1.61	0.64
1:H:698:TYR:HD2	5:S:26:ARG:HH22	1.45	0.64
1:E:282:LYS:O	1:E:283:VAL:HG23	1.96	0.64
1:B:737:LEU:O	1:C:62:ARG:NH2	2.30	0.64
1:J:554:TYR:CD1	5:Q:57:LEU:CD1	2.81	0.64
1:C:353:GLN:HB2	1:K:651:MET:HE3	1.79	0.64
1:H:34:THR:O	1:H:36:THR:N	2.30	0.64
2:M:393:LEU:HD23	2:M:401:THR:HG22	1.78	0.64
1:F:680:THR:HG23	1:F:714:ASN:OD1	1.97	0.64
1:A:945:SER:O	1:A:947:GLY:N	2.30	0.64
1:K:429:LYS:HE2	1:K:441:ASP:HA	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:823:ASN:O	1:B:824:ASN:HB2	1.96	0.64
1:G:680:THR:HG23	1:G:714:ASN:OD1	1.97	0.64
4:P:219:VAL:O	4:P:220:LYS:HB2	1.96	0.64
1:G:725:ASP:HB3	4:P:15:PRO:CD	2.26	0.64
1:A:248:ILE:O	1:A:249:LEU:HB2	1.98	0.64
1:C:13:HIS:NE2	1:C:22:TYR:CZ	2.65	0.64
1:J:876:SER:HB3	1:K:56:THR:CG2	2.19	0.64
1:D:748:VAL:O	1:D:750:GLY:N	2.30	0.64
1:J:267:SER:O	1:K:425:LEU:CD2	2.45	0.64
5:T:18:ARG:O	5:T:19:MET:HB2	1.96	0.64
1:C:637:THR:OG1	4:O:200:PRO:HG3	1.97	0.64
1:F:248:ILE:O	1:F:249:LEU:HB2	1.98	0.64
1:D:278:ASN:C	1:D:280:THR:H	2.00	0.64
1:E:438:TRP:CD1	1:E:438:TRP:N	2.64	0.64
1:I:438:TRP:N	1:I:438:TRP:CD1	2.63	0.64
1:H:281:PRO:CB	1:I:438:TRP:HZ3	2.02	0.64
1:J:248:ILE:O	1:J:249:LEU:HB2	1.98	0.64
1:C:89:ASP:HB2	4:O:224:ASP:OD2	1.98	0.64
1:J:463:LEU:CD1	1:K:463:LEU:HD23	2.18	0.64
1:H:188:GLU:HG3	1:H:193:LYS:CE	2.27	0.64
1:K:400:ILE:CD1	1:K:476:ILE:HD13	2.20	0.64
1:D:25:PRO:HG2	4:P:202:SER:CB	2.24	0.64
1:F:755:VAL:HG13	1:F:762:LYS:CG	2.28	0.64
4:P:68:ASN:HD22	4:P:71:PRO:HB3	1.63	0.64
1:I:61:GLN:HE22	1:I:623:HIS:HE1	1.46	0.64
1:K:34:THR:O	1:K:36:THR:N	2.30	0.64
5:Q:84:PRO:O	5:Q:86:ALA:N	2.30	0.64
1:F:948:ASN:H	1:F:949:ALA:HB2	1.62	0.64
1:F:608:LYS:CD	5:T:98:ASP:CA	2.70	0.64
1:G:945:SER:HB3	4:P:29:THR:CA	2.28	0.64
1:H:4:SER:CB	4:P:54:ILE:HD11	2.28	0.64
1:K:937:THR:C	4:O:40:MET:HE1	2.18	0.64
1:G:183:ILE:HD13	1:G:219:ALA:CB	2.28	0.64
1:K:248:ILE:O	1:K:249:LEU:HB2	1.98	0.64
1:K:314:MET:O	1:L:210:TRP:NE1	2.23	0.64
1:H:264:GLN:NE2	1:I:445:PHE:HZ	1.95	0.64
1:J:444:GLU:CB	1:J:445:PHE:O	2.46	0.64
1:F:75:THR:CB	1:G:697:TYR:CE2	2.80	0.64
1:I:188:GLU:HG3	1:I:193:LYS:CE	2.27	0.64
1:H:697:TYR:CE1	5:S:24:GLY:HA3	2.32	0.64
1:K:737:LEU:HB3	1:K:753:TYR:OH	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:519:LEU:HD22	1:L:115:TYR:CG	2.32	0.64
4:O:68:ASN:HD22	4:O:71:PRO:HB3	1.63	0.64
3:N:178:SER:HB3	3:N:189:PHE:HE1	1.61	0.64
1:K:823:ASN:O	1:K:824:ASN:HB2	1.96	0.64
1:H:278:ASN:C	1:H:280:THR:H	2.01	0.64
1:A:415:PRO:HD3	1:A:457:PHE:O	1.96	0.64
1:L:429:LYS:HE2	1:L:441:ASP:HA	1.80	0.64
1:C:429:LYS:HE2	1:C:441:ASP:HA	1.80	0.64
1:E:183:ILE:HD13	1:E:219:ALA:CB	2.28	0.64
1:J:430:PRO:CG	1:L:180:LYS:HE3	2.27	0.64
1:D:183:ILE:HD13	1:D:219:ALA:CB	2.28	0.64
1:G:558:HIS:CE1	1:I:752:GLY:O	2.51	0.64
2:M:48:PRO:CA	3:N:106:ASN:CB	2.74	0.64
1:C:183:ILE:HD13	1:C:219:ALA:CB	2.28	0.64
1:B:755:VAL:HG13	1:B:762:LYS:CG	2.27	0.64
1:H:283:VAL:HG21	1:I:453:VAL:CG2	2.25	0.64
1:I:246:GLN:HG3	1:I:290:VAL:HG11	1.80	0.64
1:G:42:ASN:ND2	1:I:570:ASN:HB3	2.13	0.64
1:H:941:ARG:O	1:H:945:SER:HA	1.97	0.64
1:D:470:ASN:HD21	1:F:411:ASN:HD21	1.45	0.64
1:G:381:ARG:NH2	1:I:788:ASP:OD2	2.27	0.64
1:A:827:PHE:CE2	1:B:124:ALA:HB2	2.32	0.64
1:G:890:ASN:HB3	1:G:893:TYR:HD2	1.62	0.64
4:P:44:VAL:HG12	4:P:48:ARG:NE	2.13	0.64
1:L:905:GLU:OE2	5:Q:22:TRP:CE3	2.51	0.64
1:E:180:LYS:HE2	1:F:430:PRO:CG	2.20	0.64
1:L:759:ASN:CA	5:Q:50:GLU:OE2	2.46	0.64
1:J:432:THR:HG22	1:J:439:GLU:HG3	1.78	0.64
1:H:183:ILE:HD13	1:H:219:ALA:CB	2.28	0.64
1:C:948:ASN:C	1:K:344:MET:SD	2.76	0.64
1:I:248:ILE:O	1:I:249:LEU:HB2	1.98	0.64
1:J:755:VAL:HG13	1:J:762:LYS:CG	2.27	0.64
1:H:61:GLN:HE22	1:H:623:HIS:HE1	1.46	0.64
1:K:183:ILE:HD13	1:K:219:ALA:CB	2.28	0.64
1:J:183:ILE:HD13	1:J:219:ALA:CB	2.28	0.64
1:J:34:THR:O	1:J:36:THR:N	2.30	0.64
1:E:34:THR:O	1:E:36:THR:N	2.30	0.64
4:O:16:GLN:O	4:O:17:MET:HB2	1.98	0.64
1:H:827:PHE:CE2	1:I:124:ALA:HB2	2.32	0.64
1:G:539:ASN:C	1:G:539:ASN:HD22	2.02	0.64
1:A:680:THR:HG23	1:A:714:ASN:OD1	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:570:ASN:HB3	1:L:42:ASN:ND2	2.13	0.64
1:F:88:GLY:CA	4:P:226:TYR:CE1	2.80	0.63
1:J:728:VAL:HG11	4:P:226:TYR:CG	2.24	0.63
4:O:210:ASP:O	4:O:212:PHE:N	2.31	0.63
1:A:88:GLY:C	1:E:353:GLN:HG2	2.17	0.63
1:F:349:GLY:O	1:F:351:ALA:N	2.31	0.63
1:H:13:HIS:NE2	1:H:22:TYR:CZ	2.65	0.63
1:G:942:THR:CG2	4:P:29:THR:HA	2.28	0.63
1:H:5:MET:CB	4:P:51:ARG:HG3	2.28	0.63
1:E:362:ASP:CB	1:E:941:ARG:HH22	2.10	0.63
4:P:16:GLN:O	4:P:17:MET:HB2	1.98	0.63
1:I:751:GLU:HA	1:I:754:ASN:ND2	2.12	0.63
1:K:444:GLU:CB	1:K:445:PHE:O	2.46	0.63
1:J:105:VAL:HG21	5:Q:56:PRO:O	1.99	0.63
1:I:737:LEU:HB3	1:I:753:TYR:OH	1.98	0.63
1:F:174:SER:HB2	1:F:215:ILE:HD13	1.81	0.63
1:K:539:ASN:C	1:K:539:ASN:HD22	2.02	0.63
1:G:429:LYS:HE2	1:G:441:ASP:HA	1.80	0.63
1:E:823:ASN:O	1:E:824:ASN:HB2	1.96	0.63
1:K:940:LEU:HD13	4:O:31:ILE:HG13	1.70	0.63
1:G:940:LEU:HD13	4:P:31:ILE:HG13	1.74	0.63
1:E:249:LEU:CD2	1:E:257:LEU:HD11	2.20	0.63
1:C:947:GLY:HA3	1:K:344:MET:CE	2.27	0.63
1:G:445:PHE:CD1	1:I:165:THR:HB	2.33	0.63
1:C:444:GLU:CB	1:C:445:PHE:O	2.46	0.63
1:J:445:PHE:CA	1:L:165:THR:O	2.45	0.63
1:A:453:VAL:HG22	1:C:283:VAL:HG21	1.80	0.63
1:I:8:GLN:OE1	1:I:8:GLN:CA	2.31	0.63
1:G:188:GLU:HG3	1:G:193:LYS:CE	2.27	0.63
1:A:824:ASN:OD1	1:B:121:ASN:HA	1.98	0.63
2:M:116:ARG:NH2	3:N:105:TYR:CD2	2.67	0.63
1:H:539:ASN:C	1:H:539:ASN:HD22	2.02	0.63
1:H:5:MET:CA	4:P:51:ARG:HG3	2.28	0.63
1:G:937:THR:C	4:P:40:MET:HE1	2.18	0.63
1:A:183:ILE:HD13	1:A:219:ALA:CB	2.28	0.63
1:E:432:THR:CG2	1:E:439:GLU:OE2	2.45	0.63
1:G:248:ILE:O	1:G:249:LEU:HB2	1.98	0.63
1:A:445:PHE:CD1	1:C:165:THR:HB	2.33	0.63
1:I:183:ILE:HD13	1:I:219:ALA:CB	2.28	0.63
1:H:737:LEU:HB3	1:H:753:TYR:OH	1.98	0.63
1:L:246:GLN:HG3	1:L:290:VAL:HG11	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:95:MET:SD	1:H:573:LEU:CD1	2.85	0.63
1:A:737:LEU:HB3	1:A:753:TYR:OH	1.98	0.63
1:I:680:THR:HG23	1:I:714:ASN:OD1	1.97	0.63
3:N:193:ARG:CA	4:O:207:HIS:CD2	2.82	0.63
4:O:7:THR:HB	4:O:25:GLN:CD	2.18	0.63
1:G:940:LEU:CD2	4:P:31:ILE:HG12	2.28	0.63
1:L:719:LYS:HZ1	5:Q:22:TRP:HB3	1.62	0.63
1:L:748:VAL:O	1:L:751:GLU:HG3	1.99	0.63
1:E:432:THR:HG21	1:E:439:GLU:OE2	1.97	0.63
1:L:248:ILE:O	1:L:249:LEU:HB2	1.98	0.63
1:F:183:ILE:HD13	1:F:219:ALA:CB	2.28	0.63
1:J:947:GLY:H	1:J:949:ALA:HB3	1.63	0.63
1:G:737:LEU:HB3	1:G:753:TYR:CZ	2.34	0.63
1:J:6:MET:HB2	1:J:7:PRO:HD2	1.76	0.63
1:D:63:LEU:HD21	1:F:777:TYR:CE1	2.32	0.63
1:F:737:LEU:HB3	1:F:753:TYR:OH	1.98	0.63
1:C:353:GLN:NE2	1:K:652:LEU:O	2.31	0.63
1:E:429:LYS:HE2	1:E:441:ASP:HA	1.80	0.63
1:J:470:ASN:HD21	1:L:411:ASN:HD21	1.47	0.63
3:N:194:GLN:H	4:O:207:HIS:CD2	2.16	0.63
1:K:940:LEU:CD1	4:O:31:ILE:CG1	2.57	0.63
1:F:608:LYS:NZ	1:F:609:PHE:C	2.52	0.63
1:C:728:VAL:CG2	1:C:728:VAL:O	2.46	0.63
1:K:936:GLU:HB3	4:O:37:GLY:H	1.62	0.63
1:H:248:ILE:O	1:H:249:LEU:HB2	1.97	0.63
1:B:180:LYS:HE3	1:C:430:PRO:HG3	1.79	0.63
1:L:444:GLU:CB	1:L:445:PHE:O	2.46	0.63
1:E:400:ILE:HD11	1:E:476:ILE:CD1	2.25	0.63
1:C:246:GLN:HG3	1:C:290:VAL:HG11	1.80	0.63
1:A:551:ASN:HB3	1:C:521:ALA:CB	2.28	0.63
1:A:737:LEU:HB3	1:A:753:TYR:CZ	2.34	0.63
1:J:362:ASP:HB3	1:J:941:ARG:NH2	2.13	0.63
1:L:61:GLN:HE22	1:L:623:HIS:HE1	1.46	0.63
1:C:207:GLU:CD	1:C:215:ILE:HD11	2.19	0.63
1:I:207:GLU:CD	1:I:215:ILE:HD11	2.19	0.63
1:D:381:ARG:NH2	1:F:788:ASP:OD2	2.25	0.63
1:K:891:LEU:HD21	3:N:294:GLU:OE1	1.99	0.63
1:F:438:TRP:CD1	1:F:438:TRP:N	2.63	0.63
1:B:248:ILE:O	1:B:249:LEU:HB2	1.98	0.63
1:B:183:ILE:HD13	1:B:219:ALA:CB	2.28	0.63
1:K:62:ARG:HB2	1:K:65:LEU:CD2	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:P:17:MET:SD	4:P:19:LEU:HD21	2.37	0.63
1:F:342:GLY:HA2	1:G:694:TYR:O	1.99	0.63
1:B:777:TYR:CZ	1:C:63:LEU:HD21	2.34	0.63
1:B:444:GLU:CA	1:B:445:PHE:CB	2.67	0.63
1:B:400:ILE:CD1	1:B:476:ILE:HD13	2.20	0.63
1:B:246:GLN:HG3	1:B:290:VAL:HG11	1.80	0.63
1:G:246:GLN:HG3	1:G:290:VAL:HG11	1.80	0.63
1:A:429:LYS:HE2	1:A:441:ASP:HA	1.80	0.63
1:I:95:MET:SD	1:I:573:LEU:CD1	2.85	0.63
1:E:572:LEU:HD22	1:F:40:LEU:CD2	2.28	0.63
1:A:43:LYS:HA	1:C:642:PHE:CE2	2.33	0.63
1:F:362:ASP:HB3	1:F:941:ARG:NH2	2.13	0.63
1:C:353:GLN:CB	1:K:651:MET:CE	2.77	0.63
1:K:174:SER:HB2	1:K:215:ILE:HD13	1.81	0.63
1:D:174:SER:HB2	1:D:215:ILE:HD13	1.81	0.63
1:A:174:SER:HB2	1:A:215:ILE:HD13	1.81	0.63
1:F:207:GLU:CD	1:F:215:ILE:HD11	2.19	0.63
1:K:35:GLU:O	1:K:35:GLU:HG3	1.99	0.63
1:D:411:ASN:HD21	1:E:470:ASN:HD21	1.46	0.63
4:O:9:TYR:O	4:O:194:PRO:HB3	1.98	0.63
1:F:897:ALA:HB2	1:G:350:GLN:O	1.99	0.63
1:F:89:ASP:CB	4:P:224:ASP:OD2	2.46	0.63
1:L:755:VAL:HG13	1:L:762:LYS:CG	2.27	0.63
1:C:6:MET:O	1:C:8:GLN:N	2.31	0.63
1:E:444:GLU:CB	1:E:445:PHE:O	2.46	0.63
1:G:615:TYR:CE2	1:I:762:LYS:HE2	2.34	0.63
1:I:278:ASN:C	1:I:280:THR:H	2.01	0.63
1:D:61:GLN:HE22	1:D:623:HIS:HE1	1.46	0.63
1:B:174:SER:HB2	1:B:215:ILE:HD13	1.81	0.63
2:M:50:GLY:HA2	2:M:54:SER:HB3	1.80	0.63
1:D:202:GLU:OE1	1:F:820:HIS:HD2	1.81	0.63
2:M:90:ASN:HD22	2:M:457:ILE:HG21	1.63	0.63
3:N:193:ARG:HA	4:O:207:HIS:CD2	2.34	0.63
1:F:628:THR:HG21	4:P:208:TYR:CE2	2.30	0.63
4:P:208:TYR:CB	4:P:209:PRO:HD2	2.18	0.63
1:L:183:ILE:HD13	1:L:219:ALA:CB	2.28	0.63
1:G:265:PHE:CD2	1:H:438:TRP:CH2	2.86	0.63
1:C:257:LEU:HD22	1:C:259:SER:N	2.14	0.63
1:I:257:LEU:HD22	1:I:259:SER:N	2.14	0.63
1:F:61:GLN:NE2	1:F:623:HIS:HE1	1.96	0.63
1:K:68:ILE:HG23	1:K:69:PRO:CD	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:68:ILE:HD12	1:A:69:PRO:HD3	1.81	0.63
1:D:755:VAL:HG13	1:D:762:LYS:CG	2.27	0.63
1:G:444:GLU:CB	1:G:445:PHE:O	2.46	0.63
1:A:444:GLU:CA	1:A:445:PHE:CB	2.67	0.63
1:H:737:LEU:HB3	1:H:753:TYR:CZ	2.34	0.63
1:H:755:VAL:HG13	1:H:762:LYS:CG	2.28	0.63
1:D:425:LEU:CD2	1:F:267:SER:O	2.46	0.63
1:G:267:SER:O	1:H:425:LEU:CD2	2.44	0.63
1:G:749:ASP:HB3	1:J:342:GLY:CA	2.28	0.63
1:A:311:ARG:NH1	1:B:211:TYR:CE1	2.67	0.63
1:H:598:ASN:ND2	1:H:603:ASP:OD2	2.21	0.63
1:C:35:GLU:HG3	1:C:35:GLU:O	1.99	0.63
1:K:670:ASN:HB3	4:O:28:SER:HG	1.64	0.63
1:L:4:SER:HB3	4:O:55:LEU:HD12	1.78	0.63
1:A:25:PRO:N	4:O:201:PHE:O	2.32	0.63
4:O:208:TYR:O	4:O:209:PRO:C	2.36	0.63
1:F:934:VAL:HG11	4:P:27:TYR:CZ	2.34	0.63
1:H:433:GLY:O	1:H:437:GLY:CA	2.45	0.63
1:J:889:GLN:O	1:J:889:GLN:HG3	1.98	0.63
1:G:27:LEU:HD21	1:I:633:LEU:CD2	2.29	0.63
1:K:853:THR:HG21	1:L:295:PRO:CB	2.17	0.63
1:G:6:MET:HB2	1:G:7:PRO:HD2	1.77	0.63
1:A:444:GLU:CB	1:A:445:PHE:O	2.46	0.63
1:D:444:GLU:CB	1:D:445:PHE:O	2.46	0.63
1:J:445:PHE:CD1	1:L:165:THR:HB	2.34	0.63
1:D:295:PRO:CB	1:F:853:THR:HG21	2.20	0.63
1:G:61:GLN:HE22	1:G:623:HIS:HE1	1.46	0.63
1:I:95:MET:CG	1:I:573:LEU:CD1	2.77	0.63
3:N:169:ARG:HG3	3:N:169:ARG:HH11	1.64	0.63
1:C:725:ASP:OD1	1:E:669:ARG:HB3	1.99	0.63
1:G:96:ALA:O	1:I:779:GLY:CA	2.47	0.63
1:B:61:GLN:HE22	1:B:623:HIS:HE1	1.46	0.63
1:L:207:GLU:CD	1:L:215:ILE:HD11	2.19	0.63
1:A:207:GLU:CD	1:A:215:ILE:HD11	2.19	0.63
1:J:429:LYS:HE2	1:J:441:ASP:HA	1.80	0.63
1:L:339:ASN:HD21	1:L:365:THR:H	1.47	0.63
1:J:35:GLU:O	1:J:35:GLU:HG3	1.99	0.63
1:G:339:ASN:HD21	1:G:365:THR:H	1.47	0.63
1:J:539:ASN:HD22	1:J:539:ASN:C	2.02	0.63
1:G:411:ASN:HD21	1:H:470:ASN:HD21	1.44	0.63
1:K:945:SER:H	4:O:28:SER:CA	2.12	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:949:ALA:N	1:I:950:THR:O	2.30	0.62
4:P:23:ALA:HB3	4:P:212:PHE:CD2	2.34	0.62
1:F:257:LEU:HD22	1:F:259:SER:N	2.14	0.62
1:C:341:THR:O	1:K:692:SER:CA	2.47	0.62
1:J:257:LEU:HD22	1:J:259:SER:N	2.14	0.62
1:C:8:GLN:O	1:C:9:TRP:C	2.37	0.62
1:C:739:PRO:CB	1:E:341:THR:HG21	2.29	0.62
1:J:61:GLN:HE22	1:J:623:HIS:HE1	1.46	0.62
1:A:237:ALA:O	1:A:246:GLN:NE2	2.32	0.62
1:I:737:LEU:HB3	1:I:753:TYR:CZ	2.34	0.62
1:K:95:MET:CG	1:K:573:LEU:CD1	2.77	0.62
1:D:95:MET:CG	1:D:573:LEU:CD1	2.77	0.62
1:K:755:VAL:HG13	1:K:762:LYS:CG	2.27	0.62
1:H:751:GLU:O	1:I:558:HIS:CE1	2.51	0.62
1:H:207:GLU:CD	1:H:215:ILE:HD11	2.19	0.62
1:H:174:SER:HB2	1:H:215:ILE:HD13	1.81	0.62
1:I:174:SER:HB2	1:I:215:ILE:HD13	1.81	0.62
1:A:114:PRO:HG2	1:C:520:GLY:HA3	1.79	0.62
1:E:311:ARG:NH1	1:F:211:TYR:CE1	2.67	0.62
1:K:339:ASN:HD21	1:K:365:THR:H	1.47	0.62
1:E:35:GLU:HG3	1:E:35:GLU:O	1.99	0.62
1:B:539:ASN:C	1:B:539:ASN:HD22	2.02	0.62
1:A:25:PRO:HB2	4:O:202:SER:HA	1.80	0.62
1:I:949:ALA:N	1:I:950:THR:CA	2.48	0.62
1:G:352:SER:C	1:G:353:GLN:CG	2.61	0.62
1:E:727:SER:HA	1:K:66:ARG:O	1.98	0.62
1:F:632:MET:CB	4:P:201:PHE:CZ	2.73	0.62
1:C:8:GLN:CD	1:C:8:GLN:H	2.02	0.62
1:D:719:LYS:HD2	5:R:22:TRP:CG	2.32	0.62
1:I:444:GLU:CB	1:I:445:PHE:O	2.46	0.62
1:G:62:ARG:NH2	1:I:737:LEU:O	2.32	0.62
1:F:95:MET:CG	1:F:573:LEU:CD1	2.77	0.62
1:J:95:MET:SD	1:J:573:LEU:CD1	2.85	0.62
1:G:37:TYR:HB2	1:I:619:PHE:CE1	2.34	0.62
1:L:58:ASP:OD1	3:N:288:GLU:HG3	1.99	0.62
1:G:795:ARG:HH22	1:H:381:ARG:NH2	1.97	0.62
1:F:339:ASN:HD21	1:F:365:THR:H	1.47	0.62
1:A:801:SER:OG	1:A:861:LYS:HG3	2.00	0.62
1:A:539:ASN:C	1:A:539:ASN:HD22	2.02	0.62
1:H:429:LYS:HE2	1:H:441:ASP:HA	1.80	0.62
3:N:196:LEU:HB2	4:O:197:TYR:CD2	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:248:ILE:O	1:E:249:LEU:HB2	1.98	0.62
1:G:278:ASN:C	1:G:280:THR:H	2.01	0.62
4:P:183:ILE:HG22	4:P:184:GLY:N	2.14	0.62
1:D:737:LEU:HB3	1:D:753:TYR:OH	1.98	0.62
1:B:444:GLU:CB	1:B:445:PHE:O	2.46	0.62
1:F:75:THR:CG2	1:G:697:TYR:CE2	2.68	0.62
1:J:453:VAL:CG2	1:L:283:VAL:HG21	2.29	0.62
1:F:737:LEU:HB3	1:F:753:TYR:CZ	2.34	0.62
1:D:115:TYR:CG	1:F:519:LEU:HD22	2.34	0.62
1:G:207:GLU:CD	1:G:215:ILE:HD11	2.19	0.62
1:J:174:SER:HB2	1:J:215:ILE:HD13	1.81	0.62
1:H:35:GLU:HG3	1:H:35:GLU:O	1.99	0.62
1:A:339:ASN:HD21	1:A:365:THR:H	1.47	0.62
2:M:378:VAL:HG23	2:M:379:ILE:H	1.64	0.62
1:A:6:MET:CB	1:A:7:PRO:HD3	2.19	0.62
1:H:3:PRO:O	1:H:6:MET:CG	2.47	0.62
4:P:9:TYR:O	4:P:194:PRO:HB3	1.98	0.62
4:O:36:ALA:CB	4:O:40:MET:SD	2.88	0.62
4:O:37:GLY:N	4:O:40:MET:SD	2.73	0.62
1:C:248:ILE:O	1:C:249:LEU:HB2	1.98	0.62
1:I:861:LYS:N	5:T:50:GLU:O	2.23	0.62
1:J:246:GLN:HG3	1:J:290:VAL:HG11	1.80	0.62
1:C:246:GLN:O	1:C:290:VAL:HG12	2.00	0.62
1:D:246:GLN:O	1:D:290:VAL:HG12	2.00	0.62
1:D:801:SER:OG	1:D:861:LYS:HG3	2.00	0.62
1:A:94:ASP:OD2	1:B:43:LYS:NZ	2.29	0.62
1:K:207:GLU:CD	1:K:215:ILE:HD11	2.19	0.62
1:L:174:SER:HB2	1:L:215:ILE:HD13	1.81	0.62
1:E:207:GLU:CD	1:E:215:ILE:HD11	2.19	0.62
3:N:17:GLN:HB2	3:N:18:PRO:HD3	1.80	0.62
1:D:429:LYS:HE2	1:D:441:ASP:HA	1.80	0.62
1:H:828:VAL:HG12	1:H:829:GLY:N	2.15	0.62
1:C:539:ASN:C	1:C:539:ASN:HD22	2.02	0.62
1:B:828:VAL:HG12	1:B:829:GLY:N	2.15	0.62
1:H:884:LEU:HD23	1:I:49:VAL:HG13	1.80	0.62
1:C:637:THR:HG21	4:O:200:PRO:CG	2.28	0.62
1:F:948:ASN:O	1:G:359:ASP:N	2.32	0.62
1:G:727:SER:HB3	4:P:15:PRO:HB2	1.57	0.62
1:L:801:SER:OG	1:L:861:LYS:HG3	2.00	0.62
1:D:257:LEU:HD22	1:D:259:SER:N	2.14	0.62
1:D:438:TRP:CZ3	1:F:281:PRO:HB3	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:59:ARG:CZ	1:J:733:ASN:ND2	2.58	0.62
1:D:737:LEU:HB3	1:D:753:TYR:CZ	2.34	0.62
1:J:59:ARG:CZ	4:P:110:GLY:CA	2.77	0.62
1:J:924:VAL:CG2	1:K:14:ILE:CD1	2.59	0.62
1:E:6:MET:HB2	1:E:7:PRO:HD2	1.77	0.62
1:E:853:THR:HG21	1:F:295:PRO:CB	2.18	0.62
1:H:246:GLN:O	1:H:290:VAL:HG12	2.00	0.62
1:K:640:GLN:NE2	1:K:929:ARG:NH2	2.47	0.62
4:O:183:ILE:HG22	4:O:184:GLY:N	2.14	0.62
1:C:828:VAL:HG12	1:C:829:GLY:N	2.14	0.62
1:I:539:ASN:C	1:I:539:ASN:HD22	2.02	0.62
1:C:628:THR:HG21	4:O:208:TYR:CE2	2.34	0.62
1:F:348:ALA:HB2	1:F:355:ASN:HA	1.82	0.62
1:G:896:SER:O	1:G:898:HIS:CE1	2.52	0.62
1:J:737:LEU:HB3	1:J:753:TYR:CZ	2.34	0.62
1:J:735:ARG:HA	1:K:62:ARG:HA	1.80	0.62
1:G:737:LEU:HB3	1:G:753:TYR:OH	1.98	0.62
1:B:246:GLN:O	1:B:290:VAL:HG12	2.00	0.62
1:I:246:GLN:O	1:I:290:VAL:HG12	2.00	0.62
1:A:438:TRP:O	1:C:279:LEU:HD22	1.99	0.62
1:K:737:LEU:HB3	1:K:753:TYR:CZ	2.34	0.62
1:B:66:ARG:HD2	1:B:615:TYR:OH	2.00	0.62
1:G:751:GLU:O	1:H:558:HIS:ND1	2.32	0.62
1:G:34:THR:O	1:G:36:THR:N	2.30	0.62
1:D:34:THR:O	1:D:36:THR:N	2.30	0.62
1:B:35:GLU:O	1:B:35:GLU:HG3	1.99	0.62
1:D:539:ASN:HD22	1:D:539:ASN:C	2.02	0.62
1:I:339:ASN:HD21	1:I:365:THR:H	1.47	0.62
1:L:11:TYR:CD1	4:O:43:ARG:NE	2.67	0.62
1:L:8:GLN:CG	4:O:31:ILE:HD11	2.29	0.62
1:G:891:LEU:HB3	1:G:895:ASN:CG	2.20	0.62
1:L:719:LYS:HD3	5:Q:22:TRP:CD1	2.34	0.62
1:D:248:ILE:O	1:D:249:LEU:HB2	1.98	0.62
1:C:691:GLY:O	1:K:77:TYR:CE2	2.46	0.62
1:D:430:PRO:HG3	1:F:180:LYS:HD3	1.81	0.62
1:F:246:GLN:O	1:F:290:VAL:HG12	1.99	0.62
1:H:444:GLU:CB	1:H:445:PHE:O	2.46	0.62
1:G:293:GLU:OE1	1:I:853:THR:CG2	2.40	0.62
1:B:737:LEU:HB3	1:B:753:TYR:CZ	2.34	0.62
1:D:25:PRO:CD	4:P:202:SER:CB	2.77	0.62
1:G:651:MET:HE2	1:G:653:TYR:OH	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:34:THR:O	1:B:36:THR:N	2.30	0.62
1:A:34:THR:O	1:A:36:THR:N	2.30	0.62
1:D:207:GLU:CD	1:D:215:ILE:HD11	2.19	0.62
1:G:174:SER:HB2	1:G:215:ILE:HD13	1.81	0.62
1:D:211:TYR:CE1	1:F:311:ARG:NH1	2.68	0.62
1:A:820:HIS:HB3	1:B:243:ASN:O	1.99	0.62
1:G:828:VAL:HG12	1:G:829:GLY:N	2.14	0.62
1:F:88:GLY:HA3	4:P:226:TYR:HE1	1.64	0.62
4:O:7:THR:HG21	4:O:25:GLN:HG2	1.80	0.62
1:F:667:PRO:HG2	1:G:82:ARG:HH11	1.64	0.62
1:F:349:GLY:O	1:F:352:SER:N	2.32	0.62
1:G:928:HIS:HE1	4:P:39:HIS:CB	2.12	0.62
2:M:41:VAL:HG21	3:N:63:PRO:CB	2.13	0.62
1:B:948:ASN:O	1:B:949:ALA:CB	2.47	0.62
1:D:463:LEU:CD1	1:E:463:LEU:HD23	2.19	0.62
1:C:347:LEU:HD23	1:C:568:ILE:CG2	2.28	0.62
1:H:95:MET:CG	1:H:573:LEU:CD1	2.77	0.62
1:L:66:ARG:HD2	1:L:615:TYR:OH	2.00	0.62
1:C:95:MET:CG	1:C:573:LEU:CD1	2.77	0.62
1:L:640:GLN:NE2	1:L:929:ARG:NH2	2.46	0.62
1:E:737:LEU:HB3	1:E:753:TYR:CZ	2.34	0.62
1:J:820:HIS:CD2	1:K:202:GLU:OE1	2.53	0.62
1:J:207:GLU:CD	1:J:215:ILE:HD11	2.19	0.62
1:L:75:THR:HG23	1:L:76:ALA:H	1.65	0.62
1:K:801:SER:OG	1:K:861:LYS:HG3	2.00	0.62
1:E:539:ASN:C	1:E:539:ASN:HD22	2.01	0.62
1:A:640:GLN:NE2	1:A:929:ARG:NH2	2.47	0.62
1:J:180:LYS:HE3	1:K:430:PRO:HG3	1.75	0.62
1:C:948:ASN:HA	1:C:949:ALA:HB3	0.70	0.62
1:F:444:GLU:CB	1:F:445:PHE:O	2.46	0.62
5:S:40:LEU:HD13	5:S:46:THR:HG23	1.82	0.62
1:G:246:GLN:O	1:G:290:VAL:HG12	1.99	0.62
1:L:246:GLN:O	1:L:290:VAL:HG12	2.00	0.62
1:J:95:MET:CG	1:J:573:LEU:CD1	2.77	0.62
1:E:95:MET:CG	1:E:573:LEU:CD1	2.77	0.62
1:C:80:LYS:HE2	1:K:697:TYR:CE1	2.35	0.62
1:J:779:GLY:CA	1:K:96:ALA:O	2.48	0.62
1:F:539:ASN:HD22	1:F:539:ASN:C	2.02	0.62
1:A:35:GLU:O	1:A:35:GLU:HG3	1.99	0.62
1:A:411:ASN:HD21	1:B:470:ASN:HD21	1.46	0.62
1:J:828:VAL:HG12	1:J:829:GLY:N	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:311:ARG:NH1	1:I:211:TYR:CE1	2.68	0.62
1:J:801:SER:OG	1:J:861:LYS:HG3	2.00	0.62
1:G:755:VAL:HG13	1:G:762:LYS:CG	2.28	0.62
2:M:39:PRO:HB2	3:N:27:TRP:CD1	2.34	0.62
1:E:66:ARG:HD2	1:E:615:TYR:OH	2.00	0.62
1:K:727:SER:HB2	4:O:15:PRO:CB	2.23	0.62
1:J:606:SER:HB3	5:Q:58:GLU:CG	2.30	0.62
5:S:40:LEU:HD13	5:S:46:THR:CG2	2.30	0.62
1:E:246:GLN:HG3	1:E:290:VAL:HG11	1.80	0.62
1:L:95:MET:CG	1:L:573:LEU:CD1	2.77	0.62
1:D:640:GLN:NE2	1:D:929:ARG:NH2	2.47	0.62
3:N:169:ARG:NH1	3:N:169:ARG:HG3	2.13	0.62
1:B:876:SER:CB	1:C:56:THR:HG21	2.29	0.62
1:E:61:GLN:HE22	1:E:623:HIS:HE1	1.46	0.62
1:A:204:GLN:HG2	1:C:822:HIS:HB3	1.82	0.62
1:A:828:VAL:HG12	1:A:829:GLY:N	2.14	0.62
1:A:556:PRO:HD2	1:C:859:THR:OG1	2.00	0.62
1:F:35:GLU:HG3	1:F:35:GLU:O	1.99	0.62
1:G:801:SER:OG	1:G:861:LYS:HG3	2.00	0.62
1:K:945:SER:HB2	4:O:30:ARG:N	2.14	0.61
1:F:351:ALA:HB3	1:G:667:PRO:HG3	1.75	0.61
1:G:895:ASN:HD22	4:P:189:ILE:CG2	2.13	0.61
1:G:943:PRO:HA	4:P:28:SER:O	2.00	0.61
1:K:891:LEU:C	1:K:895:ASN:HB2	2.19	0.61
4:O:37:GLY:H	4:O:40:MET:CG	2.13	0.61
1:I:432:THR:HG21	1:I:439:GLU:OE2	1.95	0.61
1:E:896:SER:OG	1:K:932:ARG:NH2	2.28	0.61
4:P:74:TRP:CH2	4:P:183:ILE:HD11	2.35	0.61
1:B:946:ALA:CB	2:M:108:THR:OG1	2.35	0.61
1:E:777:TYR:CE1	1:F:63:LEU:HD21	2.34	0.61
1:D:246:GLN:HG3	1:D:290:VAL:HG11	1.80	0.61
1:E:246:GLN:O	1:E:290:VAL:HG12	2.00	0.61
1:J:570:ASN:HB3	1:K:42:ASN:ND2	2.15	0.61
1:L:941:ARG:O	1:L:945:SER:HA	2.00	0.61
1:A:75:THR:HG23	1:A:76:ALA:H	1.65	0.61
1:J:824:ASN:N	1:K:121:ASN:OD1	2.25	0.61
1:I:35:GLU:O	1:I:35:GLU:HG3	1.99	0.61
1:I:828:VAL:HG12	1:I:829:GLY:N	2.14	0.61
1:D:35:GLU:O	1:D:35:GLU:HG3	1.99	0.61
1:L:828:VAL:HG12	1:L:829:GLY:N	2.15	0.61
1:F:828:VAL:HG12	1:F:829:GLY:N	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:35:GLU:HG3	1:L:35:GLU:O	1.99	0.61
1:E:801:SER:OG	1:E:861:LYS:HG3	2.00	0.61
1:H:801:SER:OG	1:H:861:LYS:HG3	2.00	0.61
1:B:251:LYS:CB	1:B:252:GLN:CA	2.56	0.61
1:B:257:LEU:HD22	1:B:259:SER:N	2.14	0.61
1:A:249:LEU:CD2	1:A:257:LEU:HD11	2.20	0.61
1:A:257:LEU:HD22	1:A:259:SER:N	2.14	0.61
1:L:257:LEU:HD22	1:L:259:SER:N	2.14	0.61
1:K:257:LEU:HD22	1:K:259:SER:N	2.14	0.61
1:H:444:GLU:CA	1:H:445:PHE:CB	2.67	0.61
1:C:444:GLU:CA	1:C:445:PHE:CB	2.67	0.61
1:K:400:ILE:HD11	1:K:476:ILE:CD1	2.25	0.61
1:H:734:ASP:O	1:I:62:ARG:HG2	2.00	0.61
1:J:635:ASN:CG	4:P:173:THR:HG21	2.19	0.61
1:G:95:MET:CG	1:G:573:LEU:CD1	2.77	0.61
1:A:95:MET:CG	1:A:573:LEU:CD1	2.77	0.61
1:B:95:MET:CG	1:B:573:LEU:CD1	2.77	0.61
1:B:95:MET:SD	1:B:573:LEU:CD1	2.85	0.61
1:A:362:ASP:HB3	1:A:941:ARG:NH2	2.13	0.61
1:A:519:LEU:HD22	1:B:115:TYR:CG	2.34	0.61
1:B:207:GLU:CD	1:B:215:ILE:HD11	2.19	0.61
1:C:174:SER:HB2	1:C:215:ILE:HD13	1.81	0.61
1:A:788:ASP:OD2	1:B:381:ARG:NH2	2.28	0.61
1:L:6:MET:N	1:L:7:PRO:CD	2.63	0.61
1:K:893:TYR:C	1:K:895:ASN:H	2.03	0.61
4:P:36:ALA:CB	4:P:40:MET:SD	2.88	0.61
1:E:433:GLY:HA3	1:E:437:GLY:CA	2.25	0.61
1:K:3:PRO:HG2	1:K:11:TYR:CG	2.35	0.61
1:H:66:ARG:HD2	1:H:615:TYR:OH	2.00	0.61
1:C:8:GLN:HA	1:C:8:GLN:OE1	1.99	0.61
1:B:941:ARG:CZ	2:M:108:THR:CG2	2.77	0.61
1:E:809:LYS:HZ3	5:T:106:GLN:HB3	1.63	0.61
1:H:264:GLN:O	1:H:266:PHE:CE1	2.53	0.61
1:G:445:PHE:CA	1:I:165:THR:O	2.45	0.61
1:B:285:LEU:HD11	1:C:451:ILE:HD13	1.81	0.61
1:G:640:GLN:HE22	1:G:929:ARG:NH2	1.99	0.61
1:E:755:VAL:HG13	1:E:762:LYS:CG	2.27	0.61
1:J:572:LEU:HD22	1:K:40:LEU:CD2	2.30	0.61
1:D:121:ASN:HA	1:F:824:ASN:OD1	2.01	0.61
2:M:116:ARG:NH2	3:N:105:TYR:HD2	1.98	0.61
1:G:208:SER:HB3	1:I:301:TYR:CZ	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:828:VAL:HG12	1:D:829:GLY:N	2.14	0.61
1:B:801:SER:OG	1:B:861:LYS:HG3	2.00	0.61
1:B:429:LYS:HE2	1:B:441:ASP:HA	1.80	0.61
1:J:66:ARG:HD2	1:J:615:TYR:OH	2.00	0.61
1:K:246:GLN:O	1:K:290:VAL:HG12	2.00	0.61
1:C:740:ASN:ND2	1:E:341:THR:H	1.99	0.61
1:H:638:ASN:ND2	1:I:24:SER:HB3	2.15	0.61
1:A:293:GLU:OE1	1:C:853:THR:CG2	2.39	0.61
1:G:551:ASN:CG	1:I:521:ALA:HB2	2.20	0.61
1:H:246:GLN:HG3	1:H:290:VAL:HG11	1.80	0.61
1:F:66:ARG:HD2	1:F:615:TYR:OH	2.00	0.61
1:J:170:GLN:OE1	1:L:839:GLN:HA	2.00	0.61
1:B:346:VAL:HG21	2:M:455:ARG:HG2	1.83	0.61
1:G:75:THR:HG23	1:G:76:ALA:H	1.65	0.61
1:J:75:THR:HG23	1:J:76:ALA:H	1.65	0.61
1:A:824:ASN:N	1:B:121:ASN:OD1	2.28	0.61
1:J:339:ASN:HD21	1:J:365:THR:H	1.47	0.61
1:H:257:LEU:HD22	1:H:259:SER:N	2.14	0.61
1:F:249:LEU:CD2	1:F:257:LEU:HD11	2.20	0.61
1:D:180:LYS:HE3	1:E:430:PRO:CG	2.28	0.61
1:G:762:LYS:HE2	1:H:615:TYR:CE2	2.35	0.61
1:C:362:ASP:HB3	1:C:941:ARG:NH2	2.13	0.61
1:D:752:GLY:O	1:E:558:HIS:CE1	2.53	0.61
1:G:877:ASN:ND2	1:H:619:PHE:CZ	2.67	0.61
1:I:75:THR:HG23	1:I:76:ALA:H	1.65	0.61
1:D:339:ASN:HD21	1:D:365:THR:H	1.47	0.61
1:C:801:SER:OG	1:C:861:LYS:HG3	2.00	0.61
4:O:208:TYR:O	4:O:210:ASP:N	2.33	0.61
1:G:362:ASP:HB3	1:G:941:ARG:NH2	2.13	0.61
1:K:892:LEU:CB	4:O:189:ILE:CD1	2.72	0.61
1:E:946:ALA:O	1:E:947:GLY:C	2.39	0.61
1:E:257:LEU:HD22	1:E:259:SER:N	2.14	0.61
1:G:938:VAL:CG2	4:P:40:MET:HE2	2.22	0.61
1:H:314:MET:O	1:I:210:TRP:NE1	2.21	0.61
1:J:24:SER:HB3	1:L:638:ASN:ND2	2.16	0.61
1:J:463:LEU:HD23	1:L:463:LEU:CD1	2.15	0.61
1:G:202:GLU:OE1	1:I:820:HIS:CD2	2.53	0.61
1:G:35:GLU:HG3	1:G:35:GLU:O	1.99	0.61
5:T:40:LEU:HD13	5:T:46:THR:CG2	2.30	0.61
1:F:801:SER:OG	1:F:861:LYS:HG3	2.00	0.61
1:E:778:GLN:NE2	1:F:94:ASP:OD2	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:411:ASN:HD21	1:F:470:ASN:HD21	1.45	0.61
4:P:208:TYR:O	4:P:210:ASP:N	2.33	0.61
1:E:949:ALA:N	1:E:950:THR:O	2.32	0.61
5:Q:40:LEU:HD13	5:Q:46:THR:HG23	1.82	0.61
1:G:936:GLU:OE2	4:P:38:PRO:CD	2.48	0.61
4:P:37:GLY:N	4:P:40:MET:SD	2.73	0.61
1:E:727:SER:CA	1:K:66:ARG:O	2.48	0.61
1:K:67:PHE:HD1	1:K:614:LEU:O	1.84	0.61
1:L:737:LEU:HB3	1:L:753:TYR:CZ	2.34	0.61
1:C:737:LEU:HD13	1:C:753:TYR:CD2	2.36	0.61
1:F:229:MET:HE3	1:F:314:MET:CG	2.26	0.61
3:N:271:ASP:CB	4:O:61:ILE:CD1	2.68	0.61
1:K:444:GLU:CA	1:K:445:PHE:CB	2.67	0.61
1:L:444:GLU:CA	1:L:445:PHE:CB	2.67	0.61
1:F:75:THR:HG23	1:F:76:ALA:H	1.65	0.61
1:I:66:ARG:HD2	1:I:615:TYR:OH	2.00	0.61
1:G:66:ARG:HD2	1:G:615:TYR:OH	2.00	0.61
1:H:640:GLN:HE22	1:H:929:ARG:NH2	1.99	0.61
1:H:434:GLN:HA	1:H:436:ASN:N	2.15	0.61
1:E:75:THR:HG23	1:E:76:ALA:H	1.65	0.61
1:D:204:GLN:HE22	1:F:820:HIS:HA	1.66	0.61
1:L:539:ASN:C	1:L:539:ASN:HD22	2.02	0.61
1:E:828:VAL:HG12	1:E:829:GLY:N	2.14	0.61
1:K:942:THR:CB	4:O:29:THR:CG2	2.72	0.61
1:K:897:ALA:HB1	4:O:10:MET:HE1	1.81	0.61
1:A:640:GLN:HE22	1:A:929:ARG:NH2	1.99	0.61
1:G:249:LEU:CD2	1:G:257:LEU:HD11	2.20	0.61
1:L:249:LEU:CD2	1:L:257:LEU:HD11	2.20	0.61
1:J:62:ARG:NH2	1:L:737:LEU:O	2.34	0.61
1:C:740:ASN:CG	1:E:361:GLN:HG2	2.21	0.61
1:K:75:THR:HG23	1:K:76:ALA:H	1.65	0.61
1:L:434:GLN:HA	1:L:436:ASN:N	2.15	0.61
3:N:197:GLN:HG2	4:O:196:VAL:O	2.00	0.61
1:D:11:TYR:CD1	4:P:33:TYR:OH	2.51	0.61
1:G:727:SER:OG	4:P:15:PRO:HB3	2.00	0.61
1:C:728:VAL:HG11	1:E:948:ASN:ND2	2.16	0.61
4:P:37:GLY:H	4:P:40:MET:CG	2.13	0.61
1:G:257:LEU:HD22	1:G:259:SER:N	2.14	0.61
1:J:874:PHE:HZ	1:J:893:TYR:OH	1.76	0.61
1:E:638:ASN:CB	1:F:27:LEU:CD1	2.79	0.61
1:B:938:VAL:HG13	1:B:948:ASN:O	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:740:ASN:CG	1:E:361:GLN:HB3	2.21	0.61
1:A:246:GLN:O	1:A:290:VAL:HG12	2.00	0.61
1:H:737:LEU:CB	1:H:753:TYR:CE2	2.69	0.61
1:J:246:GLN:O	1:J:290:VAL:HG12	2.00	0.61
1:D:95:MET:SD	1:D:573:LEU:CD1	2.85	0.61
1:H:944:PHE:O	1:H:945:SER:C	2.39	0.61
1:C:75:THR:HG23	1:C:76:ALA:H	1.65	0.61
1:J:520:GLY:HA3	1:K:114:PRO:CG	2.30	0.61
1:E:174:SER:HB2	1:E:215:ILE:HD13	1.81	0.61
1:K:642:PHE:CE2	1:L:43:LYS:HA	2.36	0.61
1:B:339:ASN:HD21	1:B:365:THR:H	1.47	0.61
1:J:897:ALA:O	1:J:898:HIS:ND1	2.34	0.61
1:K:941:ARG:HD2	1:K:944:PHE:O	2.01	0.61
3:N:196:LEU:HB3	4:O:197:TYR:CE2	2.34	0.61
1:K:940:LEU:CG	4:O:31:ILE:HG12	2.31	0.61
1:A:89:ASP:H	1:E:353:GLN:CB	2.14	0.61
1:G:942:THR:CB	4:P:29:THR:HB	2.31	0.61
1:J:431:LYS:O	1:J:432:THR:CB	2.34	0.61
1:C:948:ASN:ND2	1:K:358:VAL:HG13	2.16	0.61
1:E:285:LEU:HD11	1:F:451:ILE:HD13	1.81	0.61
1:G:400:ILE:HD11	1:G:476:ILE:CD1	2.25	0.61
1:L:400:ILE:HD11	1:L:476:ILE:CD1	2.25	0.61
1:I:755:VAL:HG13	1:I:762:LYS:CG	2.27	0.61
1:C:353:GLN:CB	1:K:651:MET:HE3	2.31	0.61
1:F:434:GLN:HA	1:F:436:ASN:N	2.16	0.61
1:H:75:THR:HG23	1:H:76:ALA:H	1.65	0.61
1:H:779:GLY:HA2	1:I:96:ALA:O	2.01	0.61
3:N:198:THR:C	4:O:199:ASN:ND2	2.55	0.60
4:O:213:ILE:HG22	4:O:215:ASN:H	1.65	0.60
1:G:432:THR:HG22	1:G:439:GLU:HG3	1.80	0.60
1:G:690:LEU:O	1:G:692:SER:N	2.31	0.60
1:D:747:SER:C	1:D:748:VAL:HG13	2.20	0.60
1:H:400:ILE:HD11	1:H:476:ILE:CD1	2.25	0.60
1:D:640:GLN:HE22	1:D:929:ARG:NH2	1.99	0.60
1:D:103:ARG:NH2	1:F:751:GLU:HB2	2.15	0.60
1:G:434:GLN:HA	1:G:436:ASN:N	2.15	0.60
1:K:828:VAL:HG12	1:K:829:GLY:N	2.14	0.60
1:F:628:THR:CG2	4:P:208:TYR:HE2	2.12	0.60
1:G:281:PRO:HD3	1:H:438:TRP:CZ3	2.36	0.60
1:D:438:TRP:CZ3	1:F:281:PRO:CD	2.84	0.60
5:Q:111:THR:HG23	5:T:110:LEU:HD11	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:66:ARG:HD2	1:C:615:TYR:OH	2.00	0.60
1:B:400:ILE:HD11	1:B:476:ILE:CD1	2.25	0.60
1:D:66:ARG:HD2	1:D:615:TYR:OH	2.00	0.60
1:D:362:ASP:HB3	1:D:941:ARG:NH2	2.13	0.60
1:C:725:ASP:HB3	1:E:669:ARG:NH2	2.16	0.60
4:O:50:HIS:ND1	4:O:53:ARG:NH1	2.49	0.60
1:I:325:TYR:O	1:I:594:SER:HA	2.01	0.60
1:F:325:TYR:O	1:F:594:SER:HA	2.01	0.60
1:C:339:ASN:HD21	1:C:365:THR:H	1.47	0.60
1:G:659:ALA:CA	5:Q:86:ALA:HB1	2.30	0.60
1:L:11:TYR:CD1	4:O:43:ARG:CD	2.84	0.60
1:J:558:HIS:CE1	1:L:751:GLU:O	2.55	0.60
5:Q:40:LEU:HD13	5:Q:46:THR:CG2	2.30	0.60
1:C:249:LEU:CD2	1:C:257:LEU:HD11	2.20	0.60
1:F:60:SER:HB2	1:J:733:ASN:C	2.22	0.60
1:A:61:GLN:HE22	1:A:623:HIS:HE1	1.46	0.60
1:H:688:PRO:HA	5:S:26:ARG:HH21	1.59	0.60
1:C:930:PRO:HG3	4:O:27:TYR:CG	2.35	0.60
1:B:640:GLN:HE22	1:B:929:ARG:NH2	1.99	0.60
1:B:73:GLU:HB2	2:M:456:GLN:NE2	2.15	0.60
1:G:520:GLY:HA3	1:H:114:PRO:CG	2.32	0.60
3:N:214:VAL:HG21	3:N:253:TYR:HB2	1.82	0.60
1:D:75:THR:HG23	1:D:76:ALA:H	1.65	0.60
1:D:385:MET:HA	1:F:756:ALA:HA	1.83	0.60
1:H:325:TYR:O	1:H:594:SER:HA	2.01	0.60
1:I:891:LEU:HB3	1:I:895:ASN:ND2	2.17	0.60
4:O:30:ARG:HG2	4:O:48:ARG:HH12	1.64	0.60
1:H:5:MET:CB	4:P:51:ARG:HH21	2.11	0.60
1:L:860:GLN:NE2	5:Q:49:TYR:CE2	2.69	0.60
1:D:257:LEU:HA	1:D:258:GLU:O	2.02	0.60
1:J:257:LEU:HB2	1:J:258:GLU:HA	1.79	0.60
1:C:348:ALA:HB2	1:C:354:LEU:O	2.00	0.60
1:J:295:PRO:CB	1:L:853:THR:HG21	2.21	0.60
1:A:429:LYS:C	1:A:438:TRP:HD1	2.04	0.60
1:B:677:TRP:NE1	1:B:902:MET:HE2	2.17	0.60
1:G:778:GLN:NE2	1:H:94:ASP:OD2	2.29	0.60
1:H:4:SER:HB3	4:P:55:LEU:CD1	2.24	0.60
1:H:8:GLN:HG3	4:P:31:ILE:HD12	1.74	0.60
1:G:928:HIS:HE1	4:P:39:HIS:HB3	1.59	0.60
1:K:891:LEU:CD1	3:N:294:GLU:CD	2.70	0.60
1:E:180:LYS:HE3	1:F:430:PRO:CG	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:180:LYS:CD	1:K:430:PRO:HG3	2.31	0.60
1:H:428:VAL:CG1	1:H:438:TRP:HB3	2.32	0.60
1:D:180:LYS:CD	1:E:430:PRO:HG3	2.32	0.60
1:H:180:LYS:CD	1:I:430:PRO:HG3	2.28	0.60
1:H:65:LEU:HB3	1:J:353:GLN:HE22	1.64	0.60
1:C:624:ASN:CB	4:O:221:ASP:HB3	2.22	0.60
1:H:690:LEU:O	5:S:21:PRO:HB2	2.00	0.60
1:K:572:LEU:HD22	1:L:40:LEU:CD2	2.32	0.60
1:L:640:GLN:HE22	1:L:929:ARG:NH2	1.99	0.60
1:C:353:GLN:CG	1:K:651:MET:HE3	2.32	0.60
1:D:434:GLN:HA	1:D:436:ASN:N	2.17	0.60
5:T:40:LEU:HD13	5:T:46:THR:HG23	1.82	0.60
2:M:72:VAL:HG22	2:M:74:ASN:H	1.66	0.60
1:G:325:TYR:O	1:G:594:SER:HA	2.01	0.60
1:B:325:TYR:O	1:B:594:SER:HA	2.02	0.60
1:F:640:GLN:HE22	1:F:929:ARG:NH2	1.99	0.60
1:B:257:LEU:HA	1:B:258:GLU:O	2.02	0.60
1:J:891:LEU:O	1:J:893:TYR:N	2.35	0.60
1:J:314:MET:O	1:K:210:TRP:NE1	2.24	0.60
1:D:210:TRP:NE1	1:F:314:MET:O	2.27	0.60
1:A:463:LEU:HD21	1:C:463:LEU:CD2	2.26	0.60
1:F:75:THR:OG1	1:G:697:TYR:CE2	2.54	0.60
1:E:640:GLN:HE22	1:E:929:ARG:NH2	1.99	0.60
1:G:824:ASN:OD1	1:H:121:ASN:HA	2.00	0.60
1:C:749:ASP:O	1:E:77:TYR:CE2	2.54	0.60
1:J:325:TYR:O	1:J:594:SER:HA	2.02	0.60
1:C:325:TYR:O	1:C:594:SER:HA	2.02	0.60
1:L:11:TYR:HB3	4:O:47:ILE:HD13	1.83	0.60
1:C:755:VAL:HG13	1:C:762:LYS:CG	2.28	0.60
1:I:719:LYS:HD2	5:T:22:TRP:CG	2.35	0.60
1:A:229:MET:HE3	1:A:314:MET:CG	2.24	0.60
1:G:445:PHE:H	1:I:165:THR:N	1.98	0.60
1:J:853:THR:HG21	1:K:295:PRO:CB	2.23	0.60
1:I:362:ASP:HB3	1:I:941:ARG:NH2	2.13	0.60
1:J:640:GLN:HE22	1:J:929:ARG:NH2	1.99	0.60
4:O:183:ILE:CG2	4:O:184:GLY:N	2.64	0.60
1:B:820:HIS:HB3	1:C:243:ASN:O	2.02	0.60
1:J:434:GLN:HA	1:J:436:ASN:N	2.17	0.60
4:O:17:MET:HB3	4:O:19:LEU:CD2	2.31	0.60
1:E:325:TYR:O	1:E:594:SER:HA	2.01	0.60
5:S:103:LEU:O	5:S:107:LEU:HB2	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:451:ILE:HD13	1:F:285:LEU:HD11	1.84	0.60
1:A:891:LEU:HB3	1:A:895:ASN:ND2	2.17	0.60
1:H:339:ASN:HD21	1:H:365:THR:H	1.47	0.60
2:M:128:HIS:HB3	2:M:556:LYS:HB3	1.82	0.60
1:F:608:LYS:HZ3	1:F:609:PHE:C	2.05	0.60
4:P:8:PRO:CB	4:P:51:ARG:HH11	2.14	0.60
3:N:298:ASN:HD21	4:O:54:ILE:CG2	2.00	0.60
1:J:257:LEU:HA	1:J:258:GLU:O	2.02	0.60
1:J:889:GLN:HG2	1:K:52:THR:HG21	1.82	0.60
1:H:638:ASN:OD1	1:I:24:SER:N	2.33	0.60
1:C:352:SER:C	1:C:354:LEU:H	2.05	0.60
1:G:63:LEU:HD21	1:I:777:TYR:OH	2.02	0.60
1:G:438:TRP:HB2	1:I:279:LEU:HB3	1.83	0.60
1:A:325:TYR:O	1:A:594:SER:HA	2.02	0.60
1:L:891:LEU:HB3	1:L:895:ASN:ND2	2.17	0.60
1:G:301:TYR:CZ	1:H:208:SER:HB2	2.36	0.60
1:F:897:ALA:HB2	1:G:350:GLN:CA	2.32	0.60
1:F:669:ARG:HB3	1:G:82:ARG:CZ	2.30	0.60
1:G:890:ASN:ND2	1:G:892:LEU:HB3	2.17	0.60
1:B:257:LEU:HB2	1:B:258:GLU:HA	1.79	0.60
1:D:257:LEU:HB2	1:D:258:GLU:HA	1.80	0.60
1:J:251:LYS:CB	1:J:252:GLN:CA	2.56	0.60
4:P:17:MET:HB3	4:P:19:LEU:CD2	2.31	0.60
3:N:27:TRP:CZ3	3:N:31:MET:SD	2.80	0.60
1:K:726:SER:O	1:K:727:SER:CB	2.47	0.60
1:C:178:ILE:HG22	1:C:281:PRO:HG3	1.83	0.60
1:E:890:ASN:ND2	1:E:892:LEU:HB3	2.17	0.60
1:H:737:LEU:CD1	1:H:753:TYR:HE2	2.15	0.60
1:G:243:ASN:O	1:I:820:HIS:HB3	2.01	0.60
1:B:75:THR:HG23	1:B:76:ALA:H	1.65	0.60
1:F:891:LEU:HB3	1:F:895:ASN:ND2	2.17	0.60
1:C:891:LEU:HB3	1:C:895:ASN:ND2	2.17	0.60
1:G:924:VAL:HG12	1:G:925:VAL:N	2.17	0.60
1:G:928:HIS:CE1	4:P:39:HIS:CB	2.84	0.60
1:F:257:LEU:HA	1:F:258:GLU:O	2.01	0.60
1:E:13:HIS:NE2	1:E:22:TYR:CE1	2.70	0.60
1:G:13:HIS:NE2	1:G:22:TYR:CE1	2.70	0.60
1:I:861:LYS:CE	5:T:50:GLU:OE2	2.48	0.60
1:G:444:GLU:CA	1:G:445:PHE:CB	2.67	0.60
1:J:445:PHE:HZ	1:L:264:GLN:NE2	2.00	0.60
1:J:400:ILE:HD11	1:J:476:ILE:CD1	2.25	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:890:ASN:ND2	1:I:892:LEU:HB3	2.17	0.60
1:J:640:GLN:NE2	1:J:929:ARG:NH2	2.47	0.60
1:G:170:GLN:OE1	1:I:839:GLN:HA	2.02	0.60
4:O:74:TRP:CH2	4:O:183:ILE:HD11	2.35	0.60
1:D:891:LEU:HB3	1:D:895:ASN:ND2	2.17	0.60
1:J:96:ALA:O	1:L:779:GLY:HA2	2.01	0.60
1:E:827:PHE:CE2	1:F:124:ALA:HB2	2.36	0.60
1:H:4:SER:CB	4:P:54:ILE:CG1	2.79	0.59
1:C:890:ASN:HD22	1:C:892:LEU:HB2	1.65	0.59
1:K:924:VAL:HG12	1:K:925:VAL:N	2.17	0.59
1:C:13:HIS:NE2	1:C:22:TYR:CE1	2.70	0.59
1:I:801:SER:OG	1:I:861:LYS:HG3	2.00	0.59
1:G:63:LEU:HD23	1:G:618:PHE:O	2.02	0.59
1:D:444:GLU:CA	1:D:445:PHE:CB	2.67	0.59
1:H:890:ASN:ND2	1:H:892:LEU:HB3	2.17	0.59
1:B:311:ARG:NH1	1:C:211:TYR:CE1	2.70	0.59
1:A:13:HIS:NE2	1:A:22:TYR:CE1	2.70	0.59
1:K:937:THR:C	4:O:40:MET:CE	2.71	0.59
1:H:257:LEU:HA	1:H:258:GLU:O	2.02	0.59
1:F:623:HIS:HB3	4:P:222:SER:HB2	1.84	0.59
5:Q:58:GLU:OE1	5:Q:58:GLU:HA	2.02	0.59
1:I:861:LYS:HZ1	5:T:52:VAL:CG1	2.15	0.59
1:B:737:LEU:CD1	1:B:753:TYR:HE2	2.15	0.59
1:I:640:GLN:HE22	1:I:929:ARG:NH2	1.99	0.59
1:K:751:GLU:O	1:L:558:HIS:ND1	2.34	0.59
1:J:820:HIS:HB3	1:K:243:ASN:O	2.03	0.59
1:H:824:ASN:OD1	1:I:121:ASN:HA	2.03	0.59
1:K:778:GLN:NE2	1:L:94:ASP:OD2	2.30	0.59
1:J:728:VAL:CG1	4:P:226:TYR:CG	2.83	0.59
1:A:11:TYR:CB	4:O:33:TYR:OH	2.34	0.59
1:G:638:ASN:ND2	1:H:24:SER:OG	2.35	0.59
1:G:940:LEU:HD22	4:P:31:ILE:CG1	2.32	0.59
1:I:257:LEU:HA	1:I:258:GLU:O	2.02	0.59
1:D:13:HIS:NE2	1:D:22:TYR:CE1	2.70	0.59
1:D:737:LEU:CD1	1:D:753:TYR:HE2	2.15	0.59
1:B:13:HIS:NE2	1:B:22:TYR:CE1	2.70	0.59
1:K:427:LYS:HG2	1:K:445:PHE:HD2	1.67	0.59
1:B:8:GLN:OE1	1:B:8:GLN:CA	2.37	0.59
1:D:890:ASN:ND2	1:D:892:LEU:HB3	2.17	0.59
1:D:63:LEU:HD23	1:D:618:PHE:O	2.03	0.59
1:K:428:VAL:CG1	1:K:438:TRP:HB3	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:669:ARG:C	1:G:897:ALA:CB	2.70	0.59
4:P:183:ILE:CG2	4:P:184:GLY:N	2.64	0.59
1:H:67:PHE:HE1	1:J:353:GLN:OE1	1.82	0.59
1:C:7:PRO:O	1:C:9:TRP:N	2.36	0.59
1:J:924:VAL:HG12	1:J:925:VAL:N	2.18	0.59
1:J:633:LEU:CD2	1:K:27:LEU:HD21	2.33	0.59
1:A:445:PHE:CA	1:C:165:THR:O	2.45	0.59
1:E:924:VAL:HG12	1:E:925:VAL:N	2.17	0.59
5:Q:54:GLY:C	5:Q:56:PRO:HD2	2.22	0.59
1:C:178:ILE:CG2	1:C:281:PRO:CG	2.80	0.59
1:J:63:LEU:HD23	1:J:618:PHE:O	2.02	0.59
1:J:752:GLY:O	1:K:558:HIS:CE1	2.56	0.59
1:H:63:LEU:HD23	1:H:618:PHE:O	2.02	0.59
1:B:820:HIS:CD2	1:C:202:GLU:OE1	2.54	0.59
1:I:434:GLN:HA	1:I:436:ASN:N	2.17	0.59
1:K:434:GLN:HA	1:K:436:ASN:N	2.17	0.59
1:D:243:ASN:O	1:F:820:HIS:HB3	2.02	0.59
1:J:728:VAL:CG2	4:P:226:TYR:CB	2.80	0.59
1:C:924:VAL:HG12	1:C:925:VAL:N	2.17	0.59
4:P:10:MET:SD	4:P:26:ASP:CA	2.85	0.59
4:P:23:ALA:HB3	4:P:212:PHE:HD2	1.66	0.59
1:G:939:TYR:HB2	4:P:32:ASN:OD1	2.03	0.59
1:G:950:THR:C	4:P:33:TYR:OH	2.41	0.59
1:J:558:HIS:CE1	1:L:752:GLY:O	2.55	0.59
1:K:66:ARG:HD3	1:K:615:TYR:HH	1.66	0.59
1:K:257:LEU:HA	1:K:258:GLU:O	2.02	0.59
1:D:762:LYS:HE2	1:E:615:TYR:CE2	2.37	0.59
1:B:924:VAL:HG12	1:B:925:VAL:N	2.17	0.59
4:P:92:PRO:O	4:P:93:ARG:CB	2.50	0.59
1:I:859:THR:HB	5:T:52:VAL:HG13	1.84	0.59
1:B:890:ASN:ND2	1:B:892:LEU:HB3	2.17	0.59
1:A:737:LEU:CD1	1:A:753:TYR:HE2	2.15	0.59
1:B:751:GLU:O	1:C:558:HIS:CE1	2.55	0.59
1:K:751:GLU:HB2	1:L:103:ARG:NH2	2.18	0.59
1:G:940:LEU:CD1	4:P:31:ILE:CG1	2.65	0.59
1:F:432:THR:HG22	1:F:439:GLU:HG3	1.81	0.59
1:K:936:GLU:CB	4:O:40:MET:SD	2.90	0.59
5:Q:46:THR:O	5:Q:49:TYR:CD1	2.55	0.59
1:J:438:TRP:CH2	1:L:281:PRO:HD3	2.36	0.59
1:A:240:THR:HB	1:A:249:LEU:HD21	1.85	0.59
1:G:938:VAL:O	1:H:12:MET:HE1	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:13:HIS:NE2	1:F:22:TYR:CE1	2.70	0.59
1:J:24:SER:N	1:L:638:ASN:OD1	2.32	0.59
1:I:924:VAL:HG12	1:I:925:VAL:N	2.17	0.59
1:L:63:LEU:HD23	1:L:618:PHE:O	2.03	0.59
1:B:640:GLN:NE2	1:B:929:ARG:NH2	2.47	0.59
1:D:752:GLY:H	1:E:103:ARG:NH1	2.01	0.59
1:B:693:GLY:O	1:B:694:TYR:HB2	2.03	0.59
1:K:820:HIS:CD2	1:L:202:GLU:OE1	2.55	0.59
1:C:434:GLN:HA	1:C:436:ASN:N	2.17	0.59
1:L:325:TYR:O	1:L:594:SER:HA	2.02	0.59
1:J:814:GLN:HG3	1:K:239:PRO:O	2.02	0.59
1:C:677:TRP:NE1	1:C:902:MET:HE2	2.17	0.59
1:A:756:ALA:HA	1:B:385:MET:HA	1.85	0.59
1:C:636:ASP:OD1	1:C:637:THR:N	2.35	0.59
1:F:608:LYS:NZ	1:F:608:LYS:C	2.56	0.59
1:H:13:HIS:NE2	1:H:22:TYR:CE1	2.70	0.59
1:E:257:LEU:HA	1:E:258:GLU:O	2.02	0.59
1:F:240:THR:HB	1:F:249:LEU:HD21	1.85	0.59
1:L:257:LEU:HA	1:L:258:GLU:O	2.02	0.59
1:H:62:ARG:NE	1:J:354:LEU:HB2	2.17	0.59
1:I:229:MET:HE3	1:I:314:MET:CG	2.30	0.59
1:C:351:ALA:HB1	1:K:667:PRO:HD2	1.81	0.59
1:F:427:LYS:HG2	1:F:445:PHE:HD2	1.67	0.59
1:B:165:THR:N	1:C:445:PHE:H	2.01	0.59
1:D:924:VAL:HG12	1:D:925:VAL:N	2.17	0.59
1:F:63:LEU:HD23	1:F:618:PHE:O	2.02	0.59
1:L:362:ASP:HB3	1:L:941:ARG:NH2	2.13	0.59
1:D:56:THR:HG21	1:F:876:SER:CB	2.30	0.59
1:C:899:ALA:HB1	1:E:667:PRO:CB	2.31	0.59
1:B:77:TYR:CE2	2:M:85:GLN:HG2	2.37	0.59
1:G:726:SER:OG	1:J:670:ASN:CG	2.41	0.59
1:B:434:GLN:HA	1:B:436:ASN:N	2.17	0.59
1:E:891:LEU:HB3	1:E:895:ASN:ND2	2.17	0.59
1:D:325:TYR:O	1:D:594:SER:HA	2.01	0.59
4:O:213:ILE:HG23	4:O:214:PRO:HD2	1.84	0.59
4:O:214:PRO:HG2	4:O:215:ASN:ND2	2.17	0.59
1:D:6:MET:HB2	1:D:7:PRO:HD2	1.76	0.59
1:F:610:ASP:CG	5:T:99:LYS:CB	2.71	0.59
1:F:608:LYS:HD2	5:T:98:ASP:HB2	1.68	0.59
1:G:727:SER:OG	4:P:15:PRO:CB	2.51	0.59
1:J:249:LEU:CD2	1:J:257:LEU:HD11	2.20	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:737:LEU:CD1	1:J:753:TYR:HE2	2.15	0.59
1:K:249:LEU:CD2	1:K:257:LEU:HD11	2.20	0.59
1:B:940:LEU:CA	1:B:947:GLY:HA3	2.13	0.59
1:L:924:VAL:HG12	1:L:925:VAL:N	2.18	0.59
1:J:635:ASN:CG	4:P:173:THR:HG23	2.21	0.59
1:C:640:GLN:HE22	1:C:929:ARG:NH2	1.99	0.59
1:D:519:LEU:CD1	1:E:119:ALA:HB2	2.33	0.59
3:N:229:THR:CG2	4:O:4:GLU:CG	2.80	0.59
1:H:820:HIS:CD2	1:I:202:GLU:OE1	2.56	0.59
1:G:660:THR:HG22	1:G:661:ASN:ND2	2.18	0.59
1:B:827:PHE:CE2	1:C:124:ALA:HB2	2.38	0.59
1:H:891:LEU:HB3	1:H:895:ASN:ND2	2.17	0.59
1:K:325:TYR:O	1:K:594:SER:HA	2.02	0.59
1:H:4:SER:CB	4:P:54:ILE:CD1	2.80	0.59
1:G:257:LEU:HA	1:G:258:GLU:O	2.02	0.59
1:D:438:TRP:HD1	1:D:438:TRP:N	2.00	0.59
1:B:360:LEU:HD22	2:M:107:SER:O	2.03	0.59
1:L:892:LEU:CD1	4:P:103:ASN:O	2.35	0.59
1:G:463:LEU:HD21	1:I:463:LEU:CD2	2.26	0.59
1:A:427:LYS:HG2	1:A:445:PHE:HD2	1.67	0.59
1:A:63:LEU:HD23	1:A:618:PHE:O	2.02	0.59
3:N:279:THR:HB	4:O:80:TYR:HH	1.62	0.59
1:A:890:ASN:ND2	1:A:892:LEU:HB3	2.17	0.59
1:L:428:VAL:CG1	1:L:438:TRP:HB3	2.33	0.59
3:N:193:ARG:HA	4:O:207:HIS:CE1	2.38	0.59
1:C:257:LEU:HA	1:C:258:GLU:O	2.02	0.59
1:J:890:ASN:O	1:J:891:LEU:C	2.40	0.59
1:B:943:PRO:HB2	1:B:944:PHE:HD1	1.68	0.59
1:C:8:GLN:CD	1:C:8:GLN:N	2.55	0.59
1:G:558:HIS:CE1	1:I:751:GLU:O	2.56	0.59
1:L:890:ASN:ND2	4:P:103:ASN:ND2	2.51	0.59
1:C:63:LEU:HD23	1:C:618:PHE:O	2.02	0.59
1:B:165:THR:HB	1:C:445:PHE:CD1	2.37	0.59
1:J:444:GLU:CA	1:J:445:PHE:CB	2.67	0.59
1:C:183:ILE:CG2	1:C:284:VAL:HB	2.33	0.59
1:B:63:LEU:HD23	1:B:618:PHE:O	2.02	0.59
1:I:737:LEU:CD1	1:I:753:TYR:HE2	2.15	0.59
2:M:80:ALA:O	2:M:81:SER:CB	2.50	0.59
1:K:737:LEU:CD1	1:K:753:TYR:HE2	2.15	0.59
1:H:362:ASP:HB3	1:H:941:ARG:NH2	2.13	0.59
1:F:737:LEU:CD1	1:F:753:TYR:HE2	2.15	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:751:GLU:CG	5:R:52:VAL:HG13	2.32	0.59
4:O:69:LEU:O	4:O:69:LEU:HD23	2.02	0.59
2:M:185:ASN:HD21	2:M:210:PHE:HB2	1.68	0.59
1:D:311:ARG:NH1	1:E:211:TYR:CE1	2.71	0.59
1:F:949:ALA:N	1:G:344:MET:HE1	2.17	0.58
1:G:240:THR:HB	1:G:249:LEU:HD21	1.85	0.58
1:K:4:SER:O	1:K:5:MET:C	2.41	0.58
1:F:632:MET:CB	4:P:201:PHE:CD1	2.86	0.58
1:F:632:MET:CB	4:P:201:PHE:CE1	2.85	0.58
1:E:638:ASN:CB	1:F:27:LEU:HD13	2.31	0.58
1:B:638:ASN:ND2	1:C:24:SER:CB	2.47	0.58
1:K:13:HIS:NE2	1:K:22:TYR:CE1	2.71	0.58
1:L:13:HIS:NE2	1:L:22:TYR:CE1	2.70	0.58
1:B:6:MET:HB2	1:B:7:PRO:HD2	1.80	0.58
1:H:924:VAL:HG12	1:H:925:VAL:N	2.17	0.58
1:G:63:LEU:HD21	1:I:777:TYR:CZ	2.38	0.58
1:G:853:THR:HG21	1:H:295:PRO:CB	2.21	0.58
1:H:640:GLN:NE2	1:H:929:ARG:NH2	2.47	0.58
1:H:820:HIS:HB3	1:I:243:ASN:O	2.03	0.58
1:A:434:GLN:HA	1:A:436:ASN:N	2.18	0.58
1:J:824:ASN:OD1	1:K:121:ASN:HA	2.03	0.58
4:P:69:LEU:O	4:P:69:LEU:HD23	2.02	0.58
1:I:401:GLU:OE1	1:I:403:HIS:HD2	1.86	0.58
4:O:33:TYR:CE1	4:O:41:ILE:HD11	2.38	0.58
1:L:860:GLN:HA	5:Q:50:GLU:O	2.03	0.58
1:J:428:VAL:CG1	1:J:438:TRP:HB3	2.32	0.58
1:A:257:LEU:HA	1:A:258:GLU:O	2.02	0.58
1:C:240:THR:HB	1:C:249:LEU:HD21	1.85	0.58
1:K:62:ARG:HD3	1:K:65:LEU:HD23	1.84	0.58
1:F:924:VAL:HG12	1:F:925:VAL:N	2.17	0.58
1:K:876:SER:HB3	1:L:56:THR:CG2	2.26	0.58
1:G:570:ASN:O	1:H:43:LYS:HD3	2.03	0.58
1:D:615:TYR:CE2	1:F:762:LYS:HE2	2.38	0.58
1:F:401:GLU:OE1	1:F:403:HIS:HD2	1.86	0.58
1:A:401:GLU:OE1	1:A:403:HIS:HD2	1.86	0.58
1:E:756:ALA:HA	1:F:385:MET:HA	1.84	0.58
1:L:6:MET:H	1:L:7:PRO:CD	2.16	0.58
3:N:198:THR:CB	4:O:199:ASN:HB2	2.33	0.58
1:A:8:GLN:NE2	4:O:34:MET:HA	2.18	0.58
1:F:608:LYS:HZ1	1:F:608:LYS:C	2.06	0.58
1:J:430:PRO:HG3	1:L:180:LYS:CD	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:240:THR:HB	1:B:249:LEU:HD21	1.85	0.58
1:I:432:THR:HG22	1:I:439:GLU:HG3	1.81	0.58
1:D:240:THR:HB	1:D:249:LEU:HD21	1.85	0.58
1:D:249:LEU:CD2	1:D:257:LEU:HD11	2.20	0.58
1:F:58:ASP:O	1:K:60:SER:HB3	2.04	0.58
1:G:737:LEU:CD1	1:G:753:TYR:HE2	2.15	0.58
1:K:727:SER:CB	4:O:15:PRO:HG2	2.25	0.58
1:F:890:ASN:ND2	1:F:892:LEU:HB3	2.17	0.58
1:J:243:ASN:O	1:L:820:HIS:HB3	2.03	0.58
1:H:519:LEU:HD22	1:I:115:TYR:CG	2.38	0.58
1:D:820:HIS:HB3	1:E:243:ASN:O	2.03	0.58
1:E:519:LEU:HD22	1:F:115:TYR:CG	2.38	0.58
1:A:778:GLN:NE2	1:B:94:ASP:OD2	2.30	0.58
1:E:401:GLU:OE1	1:E:403:HIS:HD2	1.86	0.58
1:L:222:VAL:O	1:L:287:SER:HA	2.03	0.58
1:F:628:THR:HG23	4:P:208:TYR:CE2	2.38	0.58
1:G:948:ASN:HD21	4:P:31:ILE:C	2.07	0.58
1:E:240:THR:HB	1:E:249:LEU:HD21	1.85	0.58
1:L:748:VAL:HA	1:L:751:GLU:CG	2.34	0.58
1:H:437:GLY:C	1:H:438:TRP:HD1	2.06	0.58
1:L:432:THR:HG22	1:L:439:GLU:HG3	1.79	0.58
1:D:27:LEU:CA	1:F:632:MET:CE	2.80	0.58
1:I:13:HIS:NE2	1:I:22:TYR:CE1	2.70	0.58
1:D:283:VAL:HG21	1:E:453:VAL:CG2	2.33	0.58
1:I:400:ILE:HD11	1:I:476:ILE:CD1	2.25	0.58
1:H:301:TYR:OH	1:I:208:SER:CB	2.52	0.58
1:K:301:TYR:OH	1:L:208:SER:HB3	2.04	0.58
1:D:824:ASN:OD1	1:E:121:ASN:HA	2.03	0.58
1:H:401:GLU:OE1	1:H:403:HIS:HD2	1.86	0.58
1:G:948:ASN:OD1	4:P:32:ASN:CB	2.51	0.58
1:B:180:LYS:HE2	1:C:430:PRO:CG	2.25	0.58
1:G:601:ARG:NH2	1:G:695:ASP:O	2.26	0.58
1:H:427:LYS:HG2	1:H:445:PHE:HD2	1.67	0.58
1:E:63:LEU:HD23	1:E:618:PHE:O	2.02	0.58
1:F:70:VAL:O	5:Q:90:ALA:C	2.42	0.58
2:M:79:VAL:O	2:M:79:VAL:HG12	2.03	0.58
1:I:941:ARG:O	1:I:945:SER:HA	2.03	0.58
1:F:69:PRO:HG2	1:F:72:ARG:HD3	1.84	0.58
1:D:827:PHE:CE2	1:E:124:ALA:HB2	2.38	0.58
1:H:240:THR:HB	1:H:249:LEU:HD21	1.85	0.58
1:L:890:ASN:ND2	1:L:892:LEU:HB3	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:63:LEU:HD23	1:I:618:PHE:O	2.02	0.58
1:A:876:SER:HB3	1:B:56:THR:CG2	2.24	0.58
5:R:103:LEU:HD11	5:S:128:VAL:HB	1.83	0.58
1:K:17:GLN:NE2	4:P:178:PRO:O	2.37	0.58
2:M:50:GLY:HA2	2:M:54:SER:CB	2.33	0.58
1:C:401:GLU:OE1	1:C:403:HIS:HD2	1.86	0.58
1:F:667:PRO:HB3	1:G:70:VAL:HG22	1.84	0.58
1:F:931:HIS:ND1	4:P:27:TYR:HE2	1.99	0.58
1:G:636:ASP:HA	1:G:639:ASP:OD2	2.04	0.58
1:H:3:PRO:HD2	4:P:58:GLN:HE22	1.68	0.58
1:L:748:VAL:HG11	5:Q:51:THR:HG23	1.85	0.58
1:H:248:ILE:HG22	1:H:250:VAL:H	1.69	0.58
1:F:341:THR:CA	1:G:693:GLY:H	2.16	0.58
1:D:24:SER:HB2	4:P:201:PHE:C	2.22	0.58
1:K:229:MET:HE3	1:K:314:MET:CG	2.32	0.58
1:J:13:HIS:NE2	1:J:22:TYR:CE1	2.70	0.58
1:H:689:SER:HB3	5:S:22:TRP:O	2.04	0.58
1:D:463:LEU:HD23	1:F:463:LEU:CD1	2.16	0.58
1:K:777:TYR:CE1	1:L:63:LEU:HD21	2.38	0.58
1:E:640:GLN:NE2	1:E:929:ARG:NH2	2.47	0.58
1:K:301:TYR:OH	1:L:208:SER:CB	2.52	0.58
1:K:945:SER:H	4:O:28:SER:HA	1.69	0.58
1:J:892:LEU:HD21	4:P:225:GLY:H	1.59	0.58
5:S:110:LEU:HD13	5:S:111:THR:N	2.18	0.58
1:D:165:THR:N	1:E:445:PHE:H	2.02	0.58
1:J:554:TYR:CD1	5:Q:57:LEU:HD13	2.36	0.58
1:A:95:MET:HG2	1:A:573:LEU:HD12	1.86	0.58
1:B:80:LYS:NZ	2:M:455:ARG:O	2.36	0.58
1:A:558:HIS:CE1	1:C:752:GLY:O	2.57	0.58
1:A:119:ALA:HB2	1:C:519:LEU:CD1	2.34	0.58
1:G:749:ASP:HB3	1:J:342:GLY:HA3	1.83	0.58
1:K:499:THR:HG22	1:K:502:TYR:H	1.69	0.58
1:I:636:ASP:HA	1:I:639:ASP:OD2	2.04	0.58
1:L:401:GLU:OE1	1:L:403:HIS:HD2	1.86	0.58
1:C:499:THR:HG22	1:C:502:TYR:H	1.69	0.58
1:H:499:THR:HG22	1:H:502:TYR:H	1.69	0.58
1:A:381:ARG:NH2	1:C:788:ASP:OD2	2.28	0.58
1:D:248:ILE:HG22	1:D:250:VAL:H	1.69	0.58
1:H:229:MET:HE3	1:H:314:MET:CG	2.33	0.58
1:A:924:VAL:HG12	1:A:925:VAL:N	2.17	0.58
1:C:351:ALA:CB	1:K:667:PRO:CD	2.59	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:451:ILE:HD13	1:I:285:LEU:HD11	1.84	0.58
1:J:521:ALA:HB2	1:K:551:ASN:CG	2.24	0.58
1:G:651:MET:HE3	1:G:653:TYR:OH	2.03	0.58
1:K:842:PRO:HB3	1:L:235:SER:HB3	1.86	0.58
1:C:95:MET:HG2	1:C:573:LEU:HD12	1.86	0.58
1:K:640:GLN:HE22	1:K:929:ARG:NH2	1.99	0.58
1:K:17:GLN:NE2	4:P:177:GLU:O	2.35	0.58
3:N:87:ARG:NH2	3:N:90:GLU:OE1	2.37	0.58
1:E:499:THR:HG22	1:E:502:TYR:H	1.69	0.58
1:D:285:LEU:HD11	1:E:451:ILE:HD13	1.85	0.58
1:D:788:ASP:OD2	1:E:381:ARG:NH2	2.29	0.58
1:F:640:GLN:NE2	1:F:929:ARG:NH2	2.47	0.58
1:K:670:ASN:CB	4:O:10:MET:SD	2.89	0.58
1:K:889:GLN:O	1:L:2:THR:HG21	2.03	0.58
1:C:248:ILE:HG22	1:C:250:VAL:H	1.69	0.58
1:J:240:THR:HB	1:J:249:LEU:HD21	1.85	0.58
1:K:61:GLN:HE22	1:K:623:HIS:CE1	2.17	0.58
4:P:214:PRO:HG2	4:P:215:ASN:ND2	2.19	0.58
1:K:240:THR:HB	1:K:249:LEU:HD21	1.85	0.58
1:L:229:MET:HE3	1:L:314:MET:HG2	1.75	0.58
1:K:723:THR:HG21	1:K:727:SER:H	1.66	0.58
5:Q:96:ARG:CZ	5:R:136:PRO:HG2	2.34	0.58
5:R:110:LEU:O	5:R:114:LEU:HB2	2.02	0.58
1:F:400:ILE:HD11	1:F:476:ILE:CD1	2.25	0.58
1:J:752:GLY:CA	1:K:103:ARG:HD2	2.31	0.58
1:K:636:ASP:HA	1:K:639:ASP:OD2	2.04	0.58
1:D:519:LEU:HD22	1:E:115:TYR:CG	2.39	0.58
1:J:119:ALA:HB2	1:L:519:LEU:CD1	2.34	0.58
1:K:734:ASP:O	1:L:62:ARG:HA	2.04	0.58
1:A:820:HIS:HD2	1:B:202:GLU:OE1	1.86	0.58
1:K:401:GLU:OE1	1:K:403:HIS:HD2	1.86	0.58
1:J:381:ARG:NH2	1:L:788:ASP:OD2	2.32	0.58
4:P:50:HIS:ND1	4:P:53:ARG:NH1	2.49	0.58
1:I:499:THR:HG22	1:I:502:TYR:H	1.69	0.58
5:Q:61:ALA:HB3	5:Q:64:ALA:HB2	1.85	0.58
1:A:636:ASP:HA	1:A:639:ASP:OD2	2.04	0.58
3:N:196:LEU:CB	4:O:197:TYR:CD2	2.87	0.57
1:F:608:LYS:HZ2	1:F:609:PHE:N	2.02	0.57
1:F:636:ASP:HA	1:F:639:ASP:OD2	2.04	0.57
1:G:250:VAL:O	1:G:251:LYS:HB2	2.04	0.57
1:K:61:GLN:NE2	1:K:623:HIS:CE1	2.72	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:632:MET:HB3	1:F:27:LEU:HG	1.82	0.57
1:C:229:MET:HE3	1:C:314:MET:CG	2.32	0.57
1:G:5:MET:HE2	1:I:894:ALA:HB1	1.85	0.57
1:B:521:ALA:HB2	1:C:551:ASN:CG	2.23	0.57
1:L:95:MET:HG2	1:L:573:LEU:HD12	1.86	0.57
1:K:752:GLY:O	1:L:558:HIS:CE1	2.57	0.57
1:J:817:GLY:O	1:J:821:GLN:HG3	2.04	0.57
1:D:499:THR:HG22	1:D:502:TYR:H	1.69	0.57
1:J:124:ALA:HB2	1:L:827:PHE:CE2	2.39	0.57
1:C:636:ASP:HA	1:C:639:ASP:OD2	2.04	0.57
1:G:940:LEU:HD22	4:P:31:ILE:CD1	2.33	0.57
4:P:210:ASP:C	4:P:212:PHE:H	2.07	0.57
4:P:36:ALA:HB1	4:P:40:MET:CG	2.35	0.57
1:F:248:ILE:HG22	1:F:250:VAL:H	1.69	0.57
1:G:251:LYS:CB	1:G:252:GLN:CA	2.56	0.57
1:L:240:THR:HB	1:L:249:LEU:HD21	1.85	0.57
1:I:248:ILE:HG22	1:I:250:VAL:H	1.69	0.57
1:G:690:LEU:C	1:G:692:SER:H	2.07	0.57
1:A:68:ILE:HG22	1:E:71:ASP:HB3	1.86	0.57
1:J:606:SER:HB2	5:Q:58:GLU:HB3	1.82	0.57
1:I:861:LYS:NZ	5:T:52:VAL:CG1	2.68	0.57
1:H:651:MET:CE	5:S:18:ARG:CD	2.80	0.57
1:H:361:GLN:CD	5:S:21:PRO:HG2	2.24	0.57
1:G:95:MET:HG2	1:G:573:LEU:HD12	1.86	0.57
1:G:748:VAL:HA	1:G:751:GLU:HG2	1.86	0.57
1:B:267:SER:O	1:C:425:LEU:HB3	2.05	0.57
1:J:619:PHE:CE1	1:K:37:TYR:HB2	2.39	0.57
1:F:819:LEU:HD23	1:F:831:LEU:HD11	1.87	0.57
1:F:672:ALA:HB2	1:G:353:GLN:HE22	1.68	0.57
1:C:341:THR:HG22	1:K:693:GLY:H	1.68	0.57
1:F:60:SER:HB2	1:J:733:ASN:CA	2.34	0.57
1:B:943:PRO:HB2	1:B:944:PHE:CD1	2.38	0.57
1:A:237:ALA:O	1:A:246:GLN:CD	2.43	0.57
1:G:103:ARG:NH2	1:I:751:GLU:HB2	2.19	0.57
1:G:14:ILE:CD1	1:I:924:VAL:CG2	2.62	0.57
1:G:6:MET:CB	1:G:7:PRO:CD	2.44	0.57
1:B:427:LYS:HG2	1:B:445:PHE:CD2	2.39	0.57
1:J:635:ASN:ND2	4:P:173:THR:OG1	2.37	0.57
1:G:640:GLN:NE2	1:G:929:ARG:NH2	2.46	0.57
5:S:19:MET:O	5:S:19:MET:HG2	2.03	0.57
1:J:748:VAL:HA	1:J:751:GLU:HG2	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:737:LEU:HA	1:F:62:ARG:NH2	2.18	0.57
1:K:520:GLY:HA3	1:L:114:PRO:CG	2.34	0.57
1:F:86:ALA:HB1	1:J:725:ASP:O	2.04	0.57
1:D:558:HIS:ND1	1:F:751:GLU:O	2.38	0.57
1:A:520:GLY:HA3	1:B:114:PRO:CG	2.33	0.57
1:A:558:HIS:CE1	1:C:751:GLU:O	2.57	0.57
1:J:301:TYR:OH	1:K:208:SER:CB	2.52	0.57
1:E:434:GLN:HA	1:E:436:ASN:N	2.18	0.57
1:F:222:VAL:O	1:F:287:SER:HA	2.04	0.57
1:A:8:GLN:NE2	4:O:34:MET:CA	2.67	0.57
1:E:178:ILE:CG2	1:E:281:PRO:CG	2.82	0.57
4:O:37:GLY:H	4:O:40:MET:HG2	1.70	0.57
1:L:250:VAL:O	1:L:251:LYS:HB2	2.05	0.57
1:C:947:GLY:O	1:C:948:ASN:HB3	2.04	0.57
1:J:248:ILE:HG22	1:J:250:VAL:H	1.69	0.57
1:L:737:LEU:CD1	1:L:753:TYR:HE2	2.15	0.57
5:T:52:VAL:CG2	5:T:52:VAL:O	2.51	0.57
1:K:847:TYR:HB3	1:K:855:VAL:HG11	1.87	0.57
1:A:282:LYS:O	1:A:283:VAL:HG23	2.04	0.57
1:D:453:VAL:CG2	1:F:283:VAL:HG21	2.33	0.57
1:D:208:SER:CB	1:F:301:TYR:OH	2.52	0.57
1:H:411:ASN:HB2	1:H:461:ILE:O	2.05	0.57
1:D:636:ASP:HA	1:D:639:ASP:OD2	2.04	0.57
1:D:817:GLY:O	1:D:821:GLN:HG3	2.04	0.57
1:K:819:LEU:HD23	1:K:831:LEU:HD11	1.87	0.57
1:L:7:PRO:HB3	4:O:47:ILE:CB	2.34	0.57
1:H:5:MET:CG	1:H:5:MET:O	2.51	0.57
1:B:250:VAL:O	1:B:251:LYS:HB2	2.05	0.57
1:B:430:PRO:CA	1:B:438:TRP:CD1	2.86	0.57
1:C:947:GLY:HA3	1:K:344:MET:HE2	1.81	0.57
1:I:240:THR:HB	1:I:249:LEU:HD21	1.85	0.57
1:D:250:VAL:O	1:D:251:LYS:HB2	2.05	0.57
1:C:340:SER:O	1:C:342:GLY:N	2.37	0.57
1:B:945:SER:CB	1:B:946:ALA:O	2.51	0.57
1:B:777:TYR:OH	1:C:63:LEU:HD21	2.04	0.57
1:D:165:THR:HB	1:E:445:PHE:CD1	2.39	0.57
1:C:178:ILE:HB	1:C:281:PRO:HG2	1.87	0.57
1:E:95:MET:HG2	1:E:573:LEU:HD12	1.86	0.57
5:T:18:ARG:HG3	5:T:19:MET:H	1.70	0.57
1:J:401:GLU:OE1	1:J:403:HIS:HD2	1.86	0.57
1:L:499:THR:HG22	1:L:502:TYR:H	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:636:ASP:HA	1:B:639:ASP:OD2	2.04	0.57
1:F:725:ASP:O	1:F:725:ASP:OD1	2.23	0.57
1:G:126:LYS:HE2	1:I:407:ASP:O	2.02	0.57
1:G:669:ARG:HH11	4:P:28:SER:HB3	1.70	0.57
1:G:895:ASN:ND2	4:P:189:ILE:HG23	2.20	0.57
1:E:178:ILE:CG2	1:E:281:PRO:HG2	2.35	0.57
1:G:248:ILE:HG22	1:G:250:VAL:H	1.69	0.57
1:E:809:LYS:HE2	5:T:106:GLN:CA	2.34	0.57
1:B:890:ASN:HB3	1:B:893:TYR:HD2	1.70	0.57
1:H:165:THR:N	1:I:445:PHE:H	2.02	0.57
1:G:427:LYS:HG2	1:G:445:PHE:HD2	1.67	0.57
1:J:264:GLN:NE2	1:K:445:PHE:HZ	2.01	0.57
1:C:178:ILE:CG2	1:C:281:PRO:HG3	2.34	0.57
1:D:890:ASN:HB3	1:D:893:TYR:HD2	1.70	0.57
1:E:890:ASN:HB3	1:E:893:TYR:HD2	1.70	0.57
1:H:762:LYS:HE2	1:I:615:TYR:CE2	2.40	0.57
3:N:300:LEU:C	3:N:300:LEU:HD23	2.24	0.57
1:J:839:GLN:HA	1:K:170:GLN:OE1	2.03	0.57
1:A:734:ASP:O	1:B:62:ARG:CG	2.49	0.57
1:B:748:VAL:HA	1:B:751:GLU:HG2	1.86	0.57
1:D:114:PRO:CG	1:F:520:GLY:HA3	2.35	0.57
1:E:411:ASN:HB2	1:E:461:ILE:O	2.05	0.57
1:G:456:ASN:O	1:H:836:ARG:NH1	2.37	0.57
1:A:725:ASP:OD1	1:A:725:ASP:O	2.23	0.57
1:E:636:ASP:HA	1:E:639:ASP:OD2	2.04	0.57
1:C:411:ASN:HB2	1:C:461:ILE:O	2.05	0.57
1:J:728:VAL:CG2	1:J:728:VAL:O	2.52	0.57
1:K:948:ASN:ND2	4:O:33:TYR:CD2	2.73	0.57
1:G:341:THR:HA	1:G:344:MET:HG2	1.87	0.57
1:F:948:ASN:ND2	4:P:35:SER:OG	2.37	0.57
1:F:930:PRO:O	4:P:24:ALA:HB1	2.05	0.57
1:H:250:VAL:O	1:H:251:LYS:HB2	2.05	0.57
1:J:180:LYS:HE3	1:K:430:PRO:CG	2.33	0.57
1:D:27:LEU:CA	1:F:632:MET:HE1	2.34	0.57
1:J:924:VAL:HG21	1:K:14:ILE:HD13	1.81	0.57
1:I:427:LYS:HG2	1:I:445:PHE:CD2	2.39	0.57
1:H:660:THR:HG22	1:H:661:ASN:OD1	2.04	0.57
1:J:847:TYR:HB3	1:J:855:VAL:HG11	1.87	0.57
1:H:456:ASN:O	1:I:836:ARG:NH1	2.38	0.57
1:B:817:GLY:O	1:B:821:GLN:HG3	2.04	0.57
1:G:499:THR:HG22	1:G:502:TYR:H	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:570:ASN:HB3	1:E:42:ASN:ND2	2.19	0.57
1:E:817:GLY:O	1:E:821:GLN:HG3	2.04	0.57
1:J:756:ALA:HA	1:K:385:MET:HA	1.84	0.57
1:C:817:GLY:O	1:C:821:GLN:HG3	2.04	0.57
1:K:944:PHE:N	4:O:28:SER:O	2.38	0.57
1:L:11:TYR:HD1	4:O:43:ARG:NE	2.02	0.57
1:G:939:TYR:N	4:P:32:ASN:OD1	2.35	0.57
1:G:257:LEU:HB2	1:G:258:GLU:HA	1.79	0.57
1:A:445:PHE:H	1:C:165:THR:N	2.01	0.57
1:A:847:TYR:HB3	1:A:855:VAL:HG11	1.87	0.57
1:A:890:ASN:HB3	1:A:893:TYR:HD2	1.70	0.57
1:F:890:ASN:HB3	1:F:893:TYR:HD2	1.70	0.57
1:D:759:ASN:HA	5:R:50:GLU:OE1	2.04	0.57
1:H:748:VAL:HA	1:H:751:GLU:HG2	1.86	0.57
1:H:636:ASP:HA	1:H:639:ASP:OD2	2.04	0.57
1:B:819:LEU:HD23	1:B:831:LEU:HD11	1.87	0.57
1:D:725:ASP:OD1	1:D:725:ASP:O	2.23	0.57
1:J:499:THR:HG22	1:J:502:TYR:H	1.69	0.57
1:L:636:ASP:HA	1:L:639:ASP:OD2	2.04	0.57
1:D:401:GLU:OE1	1:D:403:HIS:HD2	1.86	0.57
1:F:667:PRO:CG	1:G:70:VAL:HG13	2.34	0.57
1:D:12:MET:HE1	1:F:938:VAL:O	2.04	0.57
4:P:210:ASP:O	4:P:212:PHE:N	2.38	0.57
1:F:635:ASN:HA	4:P:25:GLN:CD	2.25	0.57
1:F:438:TRP:HD1	1:F:438:TRP:N	2.03	0.57
1:C:428:VAL:CG1	1:C:438:TRP:HB3	2.35	0.57
1:I:250:VAL:O	1:I:251:LYS:HB2	2.05	0.57
3:N:271:ASP:HB2	4:O:61:ILE:CD1	2.34	0.57
1:L:847:TYR:HB3	1:L:855:VAL:HG11	1.87	0.57
1:G:295:PRO:CB	1:I:853:THR:HG21	2.26	0.57
5:R:106:GLN:C	5:R:107:LEU:CD2	2.73	0.57
2:M:44:ARG:HE	3:N:65:ARG:HD3	1.68	0.57
1:F:95:MET:HG2	1:F:573:LEU:HD12	1.86	0.57
1:J:95:MET:HG2	1:J:573:LEU:HD12	1.86	0.57
1:K:748:VAL:HA	1:K:751:GLU:HG2	1.86	0.57
1:A:301:TYR:OH	1:B:208:SER:CB	2.53	0.57
1:G:204:GLN:HG2	1:I:822:HIS:HB3	1.87	0.57
1:H:75:THR:CG2	1:H:76:ALA:H	2.18	0.57
1:B:75:THR:CG2	1:B:76:ALA:H	2.18	0.57
1:B:411:ASN:HB2	1:B:461:ILE:O	2.05	0.57
1:G:411:ASN:HB2	1:G:461:ILE:O	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:817:GLY:O	1:H:821:GLN:HG3	2.05	0.57
1:C:890:ASN:HB3	1:C:893:TYR:HD2	1.70	0.57
1:E:250:VAL:O	1:E:251:LYS:HB2	2.05	0.57
1:F:60:SER:CB	1:J:733:ASN:N	2.62	0.57
1:D:314:MET:O	1:E:210:TRP:NE1	2.26	0.57
1:D:427:LYS:HG2	1:D:445:PHE:CD2	2.39	0.57
1:D:427:LYS:HG2	1:D:445:PHE:HD2	1.67	0.57
1:D:411:ASN:HB2	1:D:461:ILE:O	2.05	0.57
1:B:725:ASP:OD1	1:B:725:ASP:O	2.23	0.57
1:I:725:ASP:OD1	1:I:725:ASP:O	2.23	0.57
1:B:401:GLU:OE1	1:B:403:HIS:HD2	1.86	0.57
1:B:499:THR:HG22	1:B:502:TYR:H	1.69	0.57
3:N:193:ARG:CB	4:O:207:HIS:NE2	2.60	0.56
1:F:610:ASP:OD1	5:T:99:LYS:HB2	2.05	0.56
1:C:728:VAL:CB	1:E:948:ASN:HB2	2.35	0.56
1:B:248:ILE:HG22	1:B:250:VAL:H	1.69	0.56
1:A:257:LEU:HB2	1:A:258:GLU:HA	1.79	0.56
1:G:281:PRO:CD	1:H:438:TRP:CZ3	2.88	0.56
1:J:945:SER:O	1:J:946:ALA:C	2.43	0.56
1:J:891:LEU:HD12	4:P:214:PRO:O	2.05	0.56
1:K:251:LYS:O	1:K:256:LYS:HB2	2.06	0.56
1:A:68:ILE:CD1	1:A:69:PRO:HD2	2.35	0.56
5:T:106:GLN:O	5:T:110:LEU:HB2	2.05	0.56
1:A:638:ASN:ND2	1:B:24:SER:CB	2.66	0.56
1:E:847:TYR:HB3	1:E:855:VAL:HG11	1.87	0.56
1:D:400:ILE:HD11	1:D:476:ILE:CD1	2.24	0.56
1:A:268:THR:HG1	1:A:282:LYS:HD2	1.68	0.56
1:D:521:ALA:HB2	1:E:551:ASN:CG	2.25	0.56
1:J:637:THR:CG2	4:P:173:THR:HG22	2.34	0.56
1:D:759:ASN:HB3	5:R:50:GLU:HB3	1.86	0.56
1:J:519:LEU:CD1	1:K:119:ALA:HB2	2.34	0.56
1:H:819:LEU:HD23	1:H:831:LEU:HD11	1.87	0.56
1:E:301:TYR:CZ	1:F:208:SER:HB2	2.41	0.56
2:M:145:ALA:HB3	2:M:168:PHE:HE1	1.70	0.56
1:L:817:GLY:O	1:L:821:GLN:HG3	2.04	0.56
1:F:817:GLY:O	1:F:821:GLN:HG3	2.04	0.56
1:I:411:ASN:HB2	1:I:461:ILE:O	2.05	0.56
1:J:819:LEU:HD23	1:J:831:LEU:HD11	1.87	0.56
1:G:817:GLY:O	1:G:821:GLN:HG3	2.04	0.56
1:C:627:SER:OG	4:O:213:ILE:HG21	2.05	0.56
1:L:5:MET:CG	4:O:51:ARG:HH21	2.17	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:608:LYS:NZ	1:F:609:PHE:N	2.52	0.56
1:F:934:VAL:HG21	4:P:27:TYR:CZ	2.40	0.56
4:P:44:VAL:O	4:P:47:ILE:CG1	2.46	0.56
4:O:37:GLY:N	4:O:40:MET:HG2	2.20	0.56
1:J:180:LYS:HE2	1:K:430:PRO:CG	2.23	0.56
1:I:251:LYS:O	1:I:256:LYS:HB2	2.06	0.56
1:J:352:SER:C	1:J:353:GLN:HG3	2.25	0.56
1:E:6:MET:CB	1:E:7:PRO:CD	2.43	0.56
1:G:463:LEU:CD2	1:I:463:LEU:CD1	2.80	0.56
1:J:777:TYR:CZ	1:K:63:LEU:HD21	2.41	0.56
1:C:847:TYR:HB3	1:C:855:VAL:HG11	1.87	0.56
1:I:847:TYR:HB3	1:I:855:VAL:HG11	1.87	0.56
1:B:847:TYR:HB3	1:B:855:VAL:HG11	1.87	0.56
1:H:890:ASN:HB3	1:H:893:TYR:HD2	1.70	0.56
1:I:890:ASN:HB3	1:I:893:TYR:HD2	1.70	0.56
5:R:106:GLN:O	5:R:107:LEU:HD22	2.04	0.56
1:K:95:MET:HG2	1:K:573:LEU:HD12	1.86	0.56
1:D:95:MET:HG2	1:D:573:LEU:HD12	1.86	0.56
1:C:748:VAL:HA	1:C:751:GLU:HG2	1.86	0.56
1:D:75:THR:CG2	1:D:76:ALA:H	2.18	0.56
5:Q:18:ARG:HG3	5:Q:19:MET:H	1.70	0.56
1:F:499:THR:HG22	1:F:502:TYR:H	1.69	0.56
1:A:819:LEU:HD23	1:A:831:LEU:HD11	1.87	0.56
1:D:222:VAL:O	1:D:287:SER:HA	2.04	0.56
3:N:194:GLN:HE22	4:O:211:GLN:NE2	2.02	0.56
1:G:341:THR:HG22	1:G:344:MET:HE1	1.85	0.56
1:G:948:ASN:ND2	4:P:31:ILE:O	2.38	0.56
1:G:633:LEU:CD2	1:H:27:LEU:HD21	2.35	0.56
1:H:6:MET:N	1:H:7:PRO:HD2	2.19	0.56
4:P:8:PRO:CB	4:P:51:ARG:NH1	2.68	0.56
1:H:3:PRO:CD	4:P:58:GLN:HE22	2.18	0.56
1:A:251:LYS:O	1:A:256:LYS:HB2	2.05	0.56
4:P:37:GLY:H	4:P:40:MET:HG2	1.70	0.56
4:P:37:GLY:N	4:P:40:MET:HG2	2.20	0.56
1:H:251:LYS:O	1:H:256:LYS:HB2	2.06	0.56
1:F:251:LYS:O	1:F:256:LYS:HB2	2.05	0.56
1:F:252:GLN:O	1:F:253:GLN:CG	2.53	0.56
1:A:433:GLY:HA3	1:A:437:GLY:CA	2.33	0.56
1:H:67:PHE:HE1	1:J:353:GLN:CD	2.00	0.56
1:H:62:ARG:NE	1:J:354:LEU:CB	2.68	0.56
1:A:59:ARG:HH11	1:E:354:LEU:CG	2.16	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:24:SER:HB3	1:F:27:LEU:CD1	2.25	0.56
1:C:740:ASN:OD1	1:E:361:GLN:HG2	2.06	0.56
1:E:463:LEU:CD1	1:F:463:LEU:CD2	2.80	0.56
1:G:444:GLU:CB	1:G:445:PHE:C	2.70	0.56
1:B:444:GLU:CB	1:B:445:PHE:C	2.70	0.56
1:F:847:TYR:HB3	1:F:855:VAL:HG11	1.87	0.56
1:D:847:TYR:HB3	1:D:855:VAL:HG11	1.87	0.56
1:H:890:ASN:HD22	1:H:892:LEU:N	2.02	0.56
1:A:890:ASN:HD22	1:A:892:LEU:N	2.02	0.56
2:M:75:LYS:O	2:M:79:VAL:HG23	2.04	0.56
1:G:94:ASP:OD2	1:H:43:LYS:NZ	2.36	0.56
1:I:95:MET:HG2	1:I:573:LEU:HD12	1.86	0.56
1:B:839:GLN:HA	1:C:170:GLN:OE1	2.05	0.56
1:G:119:ALA:CB	1:I:519:LEU:HD12	2.35	0.56
1:B:519:LEU:CD1	1:C:119:ALA:HB2	2.33	0.56
1:J:636:ASP:HA	1:J:639:ASP:OD2	2.04	0.56
1:K:17:GLN:HE22	4:P:178:PRO:C	2.08	0.56
1:L:53:HIS:HA	3:N:288:GLU:OE1	2.04	0.56
1:G:795:ARG:HH22	1:H:381:ARG:HH22	1.51	0.56
1:G:401:GLU:OE1	1:G:403:HIS:HD2	1.86	0.56
1:I:817:GLY:O	1:I:821:GLN:HG3	2.04	0.56
1:L:725:ASP:O	1:L:725:ASP:OD1	2.23	0.56
1:L:663:PRO:HG3	5:Q:17:THR:OG1	2.04	0.56
1:J:222:VAL:O	1:J:287:SER:HA	2.04	0.56
1:I:819:LEU:HD23	1:I:831:LEU:HD11	1.87	0.56
1:J:534:PHE:CD1	1:J:710:THR:HB	2.41	0.56
1:A:499:THR:HG22	1:A:502:TYR:H	1.69	0.56
1:J:213:THR:HG23	1:J:213:THR:O	2.05	0.56
1:C:727:SER:HB2	1:E:944:PHE:HB3	1.87	0.56
1:A:248:ILE:HG22	1:A:250:VAL:H	1.69	0.56
1:J:889:GLN:CG	4:P:17:MET:HE3	2.35	0.56
1:G:735:ARG:HA	1:H:62:ARG:HA	1.86	0.56
1:I:178:ILE:CG2	1:I:281:PRO:HG2	2.36	0.56
1:F:75:THR:CG2	1:F:76:ALA:H	2.18	0.56
1:B:95:MET:HG2	1:B:573:LEU:HD12	1.86	0.56
1:F:748:VAL:HA	1:F:751:GLU:HG2	1.86	0.56
1:G:75:THR:CG2	1:G:76:ALA:H	2.18	0.56
1:J:411:ASN:HB2	1:J:461:ILE:O	2.05	0.56
1:D:534:PHE:CD1	1:D:710:THR:HB	2.40	0.56
1:C:819:LEU:HD23	1:C:831:LEU:HD11	1.87	0.56
1:I:213:THR:O	1:I:213:THR:HG23	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:677:TRP:NE1	1:J:902:MET:HE2	2.21	0.56
3:N:194:GLN:N	4:O:207:HIS:CD2	2.74	0.56
4:P:32:ASN:O	4:P:32:ASN:OD1	2.24	0.56
1:E:248:ILE:HG22	1:E:250:VAL:H	1.69	0.56
1:B:432:THR:HG22	1:B:439:GLU:HG3	1.79	0.56
1:F:257:LEU:HB2	1:F:258:GLU:HA	1.80	0.56
1:C:250:VAL:O	1:C:251:LYS:HB2	2.05	0.56
1:D:248:ILE:CG2	1:D:249:LEU:H	2.05	0.56
1:D:438:TRP:HZ3	1:F:281:PRO:HB3	1.70	0.56
1:K:248:ILE:HG22	1:K:250:VAL:H	1.69	0.56
1:K:252:GLN:O	1:K:253:GLN:CG	2.53	0.56
1:D:27:LEU:HD12	1:F:632:MET:HE1	1.84	0.56
2:M:106:ALA:HA	2:M:109:GLN:NE2	2.20	0.56
1:A:314:MET:O	1:B:210:TRP:NE1	2.31	0.56
5:S:20:PRO:HD2	5:S:25:VAL:HG11	1.86	0.56
5:S:10:ILE:C	5:S:12:SER:H	2.09	0.56
4:O:159:ARG:CB	4:O:160:PRO:CD	2.82	0.56
1:G:848:PRO:O	1:G:854:ALA:HA	2.06	0.56
1:B:848:PRO:O	1:B:854:ALA:HA	2.05	0.56
1:E:884:LEU:HB3	1:F:49:VAL:HA	1.88	0.56
1:B:519:LEU:HD22	1:C:115:TYR:CG	2.39	0.56
1:J:301:TYR:OH	1:K:208:SER:HB3	2.04	0.56
1:D:820:HIS:CD2	1:E:202:GLU:OE1	2.57	0.56
1:A:411:ASN:HB2	1:A:461:ILE:O	2.05	0.56
1:L:677:TRP:NE1	1:L:902:MET:HE2	2.21	0.56
1:D:763:ASP:O	1:D:767:VAL:HG23	2.06	0.56
1:J:211:TYR:CE1	1:L:311:ARG:NH1	2.74	0.56
1:A:126:LYS:HE2	1:C:407:ASP:O	2.05	0.56
1:K:213:THR:HG23	1:K:213:THR:O	2.05	0.56
4:O:208:TYR:CB	4:O:209:PRO:HD2	2.18	0.56
1:G:943:PRO:C	4:P:28:SER:O	2.44	0.56
1:H:250:VAL:O	1:H:251:LYS:CB	2.54	0.56
1:L:248:ILE:HG22	1:L:250:VAL:H	1.69	0.56
1:L:251:LYS:O	1:L:256:LYS:HB2	2.05	0.56
1:D:250:VAL:O	1:D:251:LYS:CB	2.54	0.56
1:D:251:LYS:O	1:D:256:LYS:HB2	2.06	0.56
1:J:250:VAL:O	1:J:251:LYS:HB2	2.05	0.56
1:J:891:LEU:CD2	4:P:72:ARG:HH11	2.18	0.56
1:I:748:VAL:HA	1:I:751:GLU:HG2	1.86	0.56
1:I:444:GLU:CA	1:I:445:PHE:CB	2.67	0.56
1:G:847:TYR:HB3	1:G:855:VAL:HG11	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:400:ILE:HD11	1:A:476:ILE:CD1	2.25	0.56
1:C:400:ILE:HD11	1:C:476:ILE:CD1	2.25	0.56
1:H:95:MET:HG2	1:H:573:LEU:HD12	1.86	0.56
1:F:72:ARG:CZ	5:Q:94:SER:HA	2.36	0.56
5:R:18:ARG:HG3	5:R:19:MET:H	1.70	0.56
1:F:411:ASN:HB2	1:F:461:ILE:O	2.05	0.56
1:D:94:ASP:OD2	1:F:778:GLN:NE2	2.33	0.56
1:G:820:HIS:HD2	1:H:202:GLU:OE1	1.89	0.56
4:O:6:PRO:HG3	4:O:198:PHE:N	2.21	0.56
1:F:349:GLY:O	1:F:350:GLN:C	2.43	0.56
1:C:892:LEU:HB3	1:E:949:ALA:O	2.06	0.56
1:B:281:PRO:HD3	1:C:438:TRP:CZ3	2.40	0.56
1:D:438:TRP:CZ3	1:F:281:PRO:CB	2.88	0.56
1:B:939:TYR:C	1:B:947:GLY:C	2.64	0.56
1:F:848:PRO:O	1:F:854:ALA:HA	2.06	0.56
5:R:107:LEU:HD11	5:S:125:ARG:CB	2.25	0.56
1:I:572:LEU:O	1:I:929:ARG:NH2	2.39	0.56
1:C:572:LEU:O	1:C:929:ARG:NH2	2.39	0.56
1:J:751:GLU:O	1:K:558:HIS:ND1	2.38	0.56
1:J:419:VAL:HG21	1:J:452:ARG:CB	2.36	0.56
1:J:452:ARG:O	1:L:170:GLN:HA	2.05	0.56
1:A:748:VAL:HA	1:A:751:GLU:HG2	1.86	0.56
1:H:301:TYR:OH	1:I:208:SER:HB3	2.06	0.56
1:I:75:THR:CG2	1:I:76:ALA:H	2.18	0.56
1:L:411:ASN:HB2	1:L:461:ILE:O	2.05	0.56
1:A:820:HIS:HA	1:B:204:GLN:HE22	1.71	0.56
1:C:213:THR:HG23	1:C:213:THR:O	2.05	0.56
1:K:814:GLN:HG3	1:L:239:PRO:O	2.05	0.56
1:J:763:ASP:O	1:J:767:VAL:HG23	2.06	0.56
1:G:534:PHE:CD1	1:G:710:THR:HB	2.41	0.56
1:A:817:GLY:O	1:A:821:GLN:HG3	2.04	0.56
1:K:763:ASP:O	1:K:767:VAL:HG23	2.06	0.56
1:F:572:LEU:O	1:F:929:ARG:NH2	2.39	0.56
1:K:362:ASP:HB3	1:K:941:ARG:NH2	2.13	0.56
3:N:197:GLN:CG	4:O:196:VAL:O	2.54	0.56
1:I:948:ASN:HB3	1:I:949:ALA:HA	1.82	0.56
1:L:3:PRO:CB	4:O:54:ILE:HG23	2.31	0.56
1:L:719:LYS:CD	5:Q:22:TRP:CD1	2.89	0.56
4:O:36:ALA:HB1	4:O:40:MET:CG	2.34	0.56
1:B:250:VAL:O	1:B:251:LYS:CB	2.54	0.56
1:B:251:LYS:O	1:B:256:LYS:HB2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:433:GLY:O	1:A:437:GLY:CA	2.53	0.56
1:L:251:LYS:CB	1:L:252:GLN:CA	2.56	0.56
1:J:892:LEU:HD22	4:P:224:ASP:OD1	2.05	0.56
1:H:66:ARG:HH12	1:H:68:ILE:HD11	1.71	0.56
1:B:941:ARG:O	1:B:945:SER:CB	2.54	0.56
1:A:615:TYR:CE2	1:C:762:LYS:HE2	2.41	0.56
2:M:46:LEU:O	3:N:106:ASN:ND2	2.39	0.56
1:B:427:LYS:HG2	1:B:445:PHE:HD2	1.67	0.56
1:I:848:PRO:O	1:I:854:ALA:HA	2.06	0.56
1:D:572:LEU:HD22	1:E:40:LEU:CD2	2.36	0.56
1:E:737:LEU:CD1	1:E:753:TYR:HE2	2.16	0.56
5:S:37:ARG:CB	5:S:38:PRO:HD2	2.34	0.56
1:A:37:TYR:HB2	1:C:619:PHE:CE1	2.40	0.56
1:B:824:ASN:OD1	1:C:121:ASN:HA	2.05	0.56
1:J:818:ILE:HD12	1:J:819:LEU:H	1.71	0.56
5:S:118:SER:O	5:S:122:LEU:HG	2.06	0.56
1:A:763:ASP:O	1:A:767:VAL:HG23	2.06	0.56
1:H:725:ASP:O	1:H:725:ASP:OD1	2.23	0.56
1:K:534:PHE:CD1	1:K:710:THR:HB	2.41	0.56
1:F:534:PHE:CD1	1:F:710:THR:HB	2.41	0.56
1:F:668:SER:HB3	1:G:350:GLN:NE2	2.21	0.56
1:F:59:ARG:NH1	4:P:225:GLY:O	2.39	0.56
1:K:257:LEU:HD22	1:K:259:SER:HA	1.88	0.56
1:I:741:GLU:OE1	5:T:22:TRP:NE1	2.38	0.56
1:H:427:LYS:HG2	1:H:445:PHE:CD2	2.39	0.56
1:E:444:GLU:CB	1:E:445:PHE:C	2.70	0.56
1:J:848:PRO:O	1:J:854:ALA:HA	2.06	0.56
1:J:280:THR:HA	1:K:438:TRP:HZ3	1.60	0.56
1:L:572:LEU:O	1:L:929:ARG:NH2	2.39	0.56
1:E:762:LYS:HE2	1:F:615:TYR:CE2	2.40	0.56
3:N:147:LEU:HD22	3:N:169:ARG:NH2	2.21	0.56
1:C:419:VAL:HG21	1:C:452:ARG:CB	2.36	0.56
1:B:346:VAL:CG2	2:M:455:ARG:HG2	2.36	0.56
1:A:75:THR:CG2	1:A:76:ALA:H	2.18	0.56
1:C:534:PHE:CD1	1:C:710:THR:HB	2.41	0.56
1:K:817:GLY:O	1:K:821:GLN:HG3	2.05	0.56
1:A:419:VAL:HG21	1:A:452:ARG:CB	2.36	0.56
1:G:799:PRO:HG3	1:H:384:SER:OG	2.06	0.56
1:I:763:ASP:O	1:I:767:VAL:HG23	2.06	0.56
1:A:456:ASN:O	1:B:836:ARG:NH1	2.39	0.56
1:E:763:ASP:O	1:E:767:VAL:HG23	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:572:LEU:O	1:A:929:ARG:NH2	2.39	0.56
1:A:250:VAL:O	1:A:251:LYS:HB2	2.05	0.56
1:H:252:GLN:O	1:H:253:GLN:CG	2.53	0.56
1:A:178:ILE:CG2	1:A:281:PRO:HG2	2.35	0.56
1:D:178:ILE:CG2	1:D:281:PRO:HG2	2.36	0.56
1:G:251:LYS:O	1:G:256:LYS:HB2	2.05	0.56
1:L:250:VAL:O	1:L:251:LYS:CB	2.54	0.56
1:J:251:LYS:O	1:J:256:LYS:HB2	2.05	0.56
1:K:463:LEU:HD21	1:L:463:LEU:CD2	2.23	0.56
1:E:858:ILE:HD11	5:Q:112:ARG:NH2	2.16	0.56
1:E:444:GLU:CA	1:E:445:PHE:CB	2.67	0.56
1:H:847:TYR:HB3	1:H:855:VAL:HG11	1.87	0.56
1:B:572:LEU:O	1:B:929:ARG:NH2	2.39	0.56
1:E:267:SER:O	1:F:425:LEU:HB3	2.06	0.56
1:B:751:GLU:HB2	1:C:103:ARG:NH2	2.20	0.56
1:J:115:TYR:CG	1:L:519:LEU:HD22	2.41	0.56
1:A:818:ILE:HD12	1:A:819:LEU:H	1.71	0.56
1:E:213:THR:HG23	1:E:213:THR:O	2.05	0.56
1:H:419:VAL:HG21	1:H:452:ARG:CB	2.36	0.56
1:F:763:ASP:O	1:F:767:VAL:HG23	2.06	0.56
1:D:819:LEU:HD23	1:D:831:LEU:HD11	1.87	0.56
1:A:27:LEU:HD21	1:C:633:LEU:CD2	2.36	0.55
1:H:249:LEU:CD2	1:H:257:LEU:HD11	2.20	0.55
1:F:248:ILE:HG22	1:F:250:VAL:N	2.21	0.55
1:L:252:GLN:O	1:L:253:GLN:CG	2.53	0.55
1:K:250:VAL:O	1:K:251:LYS:HB2	2.05	0.55
1:A:59:ARG:HH11	1:E:354:LEU:HG	1.71	0.55
1:C:737:LEU:CB	1:C:753:TYR:CE2	2.89	0.55
1:C:737:LEU:O	1:E:342:GLY:CA	2.50	0.55
1:F:444:GLU:CB	1:F:445:PHE:C	2.70	0.55
1:K:444:GLU:CB	1:K:445:PHE:C	2.70	0.55
1:C:848:PRO:O	1:C:854:ALA:HA	2.06	0.55
1:B:66:ARG:HH12	1:B:68:ILE:HD11	1.71	0.55
1:J:572:LEU:O	1:J:929:ARG:NH2	2.39	0.55
1:B:752:GLY:O	1:C:558:HIS:CE1	2.59	0.55
1:E:748:VAL:HA	1:E:751:GLU:HG2	1.87	0.55
1:H:519:LEU:CD1	1:I:119:ALA:HB2	2.36	0.55
1:G:763:ASP:O	1:G:767:VAL:HG23	2.06	0.55
1:L:534:PHE:CD1	1:L:710:THR:HB	2.41	0.55
3:N:146:PHE:CZ	3:N:201:LEU:HB3	2.41	0.55
4:O:33:TYR:CD1	4:O:41:ILE:CD1	2.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:248:ILE:HG22	1:A:250:VAL:N	2.22	0.55
1:A:257:LEU:HD22	1:A:259:SER:HB3	1.89	0.55
1:K:939:TYR:CA	4:O:32:ASN:ND2	2.69	0.55
1:C:251:LYS:O	1:C:256:LYS:HB2	2.05	0.55
1:L:257:LEU:HD22	1:L:259:SER:HA	1.88	0.55
1:J:942:THR:HG21	4:P:16:GLN:HE21	1.71	0.55
1:J:66:ARG:HH12	1:J:68:ILE:HD11	1.72	0.55
1:K:250:VAL:O	1:K:251:LYS:CB	2.54	0.55
1:H:696:PRO:O	5:S:31:GLY:HA3	2.07	0.55
1:G:66:ARG:HH12	1:G:68:ILE:HD11	1.71	0.55
1:D:66:ARG:HH12	1:D:68:ILE:HD11	1.71	0.55
1:K:884:LEU:HB3	1:L:49:VAL:HA	1.88	0.55
1:K:267:SER:O	1:L:425:LEU:CD2	2.52	0.55
1:H:818:ILE:HD12	1:H:819:LEU:H	1.71	0.55
1:I:818:ILE:HD12	1:I:819:LEU:H	1.71	0.55
1:I:534:PHE:CD1	1:I:710:THR:HB	2.41	0.55
2:M:102:SER:HB3	2:M:103:PRO:HD2	1.89	0.55
1:E:534:PHE:CD1	1:E:710:THR:HB	2.41	0.55
3:N:66:ALA:O	3:N:68:PRO:HD3	2.05	0.55
1:A:534:PHE:CD1	1:A:710:THR:HB	2.41	0.55
1:D:213:THR:O	1:D:213:THR:HG23	2.05	0.55
1:J:730:TRP:CA	4:P:226:TYR:O	2.54	0.55
1:F:250:VAL:O	1:F:251:LYS:HB2	2.05	0.55
1:G:250:VAL:O	1:G:251:LYS:CB	2.54	0.55
1:K:77:TYR:CZ	1:K:693:GLY:O	2.60	0.55
1:A:463:LEU:CD2	1:C:463:LEU:CD1	2.76	0.55
1:K:178:ILE:CG2	1:K:281:PRO:HG2	2.37	0.55
1:L:427:LYS:HG2	1:L:445:PHE:HD2	1.67	0.55
1:H:848:PRO:O	1:H:854:ALA:HA	2.06	0.55
1:H:914:LEU:HD21	5:S:19:MET:HE3	1.87	0.55
1:K:762:LYS:HE2	1:L:615:TYR:CE2	2.41	0.55
1:E:419:VAL:HG21	1:E:452:ARG:CB	2.36	0.55
1:H:103:ARG:CZ	1:H:611:SER:OG	2.55	0.55
1:G:419:VAL:HG21	1:G:452:ARG:CB	2.36	0.55
1:D:861:LYS:NZ	5:R:52:VAL:HG21	2.20	0.55
1:D:751:GLU:HG3	5:R:52:VAL:CG1	2.34	0.55
1:E:752:GLY:O	1:F:558:HIS:CE1	2.60	0.55
1:L:75:THR:CG2	1:L:76:ALA:H	2.18	0.55
1:K:411:ASN:HB2	1:K:461:ILE:O	2.05	0.55
1:K:818:ILE:HD12	1:K:819:LEU:H	1.72	0.55
1:H:763:ASP:O	1:H:767:VAL:HG23	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:819:LEU:HD23	1:L:831:LEU:HD11	1.87	0.55
1:L:8:GLN:OE1	4:O:47:ILE:CG2	2.54	0.55
1:G:942:THR:CG2	4:P:29:THR:HB	2.36	0.55
1:L:861:LYS:HE3	5:Q:50:GLU:OE1	2.06	0.55
1:B:257:LEU:HD22	1:B:259:SER:HA	1.88	0.55
1:G:430:PRO:HG3	1:I:180:LYS:CD	2.36	0.55
1:F:250:VAL:O	1:F:251:LYS:CB	2.54	0.55
1:E:638:ASN:HB2	1:F:27:LEU:CD1	2.37	0.55
1:B:946:ALA:H	2:M:109:GLN:HA	0.65	0.55
2:M:105:GLU:HG3	2:M:106:ALA:H	1.72	0.55
1:J:210:TRP:NE1	1:L:314:MET:O	2.23	0.55
1:C:349:GLY:O	1:C:351:ALA:N	2.40	0.55
1:L:848:PRO:O	1:L:854:ALA:HA	2.06	0.55
1:D:848:PRO:O	1:D:854:ALA:HA	2.06	0.55
1:G:283:VAL:HG21	1:H:453:VAL:CG2	2.34	0.55
1:G:572:LEU:O	1:G:929:ARG:NH2	2.39	0.55
1:I:640:GLN:NE2	1:I:929:ARG:NH2	2.47	0.55
1:D:572:LEU:O	1:D:929:ARG:NH2	2.39	0.55
1:A:425:LEU:HB3	1:C:267:SER:O	2.06	0.55
1:J:121:ASN:HA	1:L:824:ASN:OD1	2.06	0.55
1:F:499:THR:HG22	1:F:501:ASP:N	2.22	0.55
1:B:213:THR:HG23	1:B:213:THR:O	2.05	0.55
1:E:819:LEU:HD23	1:E:831:LEU:HD11	1.87	0.55
3:N:193:ARG:HA	4:O:207:HIS:ND1	2.20	0.55
1:L:3:PRO:HG3	4:O:58:GLN:NE2	2.21	0.55
1:C:728:VAL:CB	1:E:948:ASN:N	2.45	0.55
1:E:251:LYS:O	1:E:256:LYS:HB2	2.06	0.55
1:H:248:ILE:HG22	1:H:250:VAL:N	2.21	0.55
1:I:438:TRP:HD1	1:I:438:TRP:N	2.03	0.55
1:K:939:TYR:H	4:O:32:ASN:ND2	2.05	0.55
1:D:248:ILE:HG23	1:D:250:VAL:HG12	1.87	0.55
1:D:24:SER:CB	1:F:638:ASN:ND2	2.68	0.55
1:B:890:ASN:HD22	1:B:892:LEU:N	2.02	0.55
1:A:521:ALA:HB2	1:B:551:ASN:CG	2.27	0.55
1:H:778:GLN:NE2	1:I:94:ASP:OD2	2.37	0.55
1:L:419:VAL:HG21	1:L:452:ARG:CB	2.36	0.55
1:G:499:THR:HG22	1:G:501:ASP:N	2.22	0.55
1:E:818:ILE:HD12	1:E:819:LEU:H	1.71	0.55
1:F:213:THR:HG23	1:F:213:THR:O	2.06	0.55
1:E:677:TRP:NE1	1:E:902:MET:HE2	2.21	0.55
4:O:55:LEU:HD23	4:O:194:PRO:O	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:248:ILE:HG23	1:E:250:VAL:HG12	1.87	0.55
1:E:248:ILE:HG22	1:E:250:VAL:N	2.22	0.55
1:D:265:PHE:CG	1:E:438:TRP:CZ3	2.92	0.55
1:B:941:ARG:NH1	2:M:108:THR:CB	2.69	0.55
1:I:748:VAL:CG2	1:I:749:ASP:N	2.69	0.55
1:H:165:THR:HB	1:I:445:PHE:CD1	2.42	0.55
1:D:445:PHE:CZ	1:F:264:GLN:NE2	2.70	0.55
1:E:218:ALA:O	1:E:283:VAL:HA	2.07	0.55
1:I:672:ALA:O	1:I:943:PRO:HG3	2.06	0.55
4:O:68:ASN:C	4:O:70:ASN:N	2.60	0.55
1:G:470:ASN:HD21	1:I:411:ASN:HD21	1.54	0.55
1:A:499:THR:HG22	1:A:501:ASP:N	2.22	0.55
1:L:818:ILE:HD12	1:L:819:LEU:H	1.71	0.55
4:O:210:ASP:C	4:O:212:PHE:N	2.60	0.55
1:G:944:PHE:H	4:P:28:SER:HB2	1.72	0.55
1:C:890:ASN:HD22	1:C:892:LEU:N	2.02	0.55
1:K:936:GLU:OE2	4:O:37:GLY:HA3	2.05	0.55
1:L:748:VAL:CG2	1:L:749:ASP:N	2.69	0.55
1:B:248:ILE:HG22	1:B:250:VAL:N	2.22	0.55
1:H:257:LEU:HD22	1:H:259:SER:HB3	1.89	0.55
1:I:250:VAL:O	1:I:251:LYS:CB	2.54	0.55
1:K:248:ILE:HG22	1:K:250:VAL:N	2.22	0.55
1:C:740:ASN:N	1:E:341:THR:OG1	2.40	0.55
1:I:719:LYS:NZ	5:T:22:TRP:HB3	2.21	0.55
1:E:463:LEU:CD2	1:F:463:LEU:HD21	2.27	0.55
1:E:848:PRO:O	1:E:854:ALA:HA	2.06	0.55
1:J:412:TYR:HH	1:K:835:MET:HA	1.67	0.55
1:G:859:THR:OG1	1:H:556:PRO:CD	2.52	0.55
1:E:572:LEU:O	1:E:929:ARG:NH2	2.39	0.55
1:K:419:VAL:HG21	1:K:452:ARG:CB	2.36	0.55
1:K:267:SER:O	1:L:425:LEU:HB3	2.07	0.55
1:A:519:LEU:CD1	1:B:119:ALA:HB2	2.36	0.55
1:L:58:ASP:OD1	3:N:287:GLN:HG3	2.06	0.55
1:H:499:THR:HG22	1:H:501:ASP:N	2.22	0.55
1:D:499:THR:HG22	1:D:501:ASP:N	2.22	0.55
1:G:819:LEU:HD23	1:G:831:LEU:HD11	1.87	0.55
1:G:213:THR:O	1:G:213:THR:HG23	2.05	0.55
1:B:534:PHE:CD1	1:B:710:THR:HB	2.41	0.55
1:C:639:ASP:HB2	1:C:926:ARG:NH1	2.22	0.55
4:P:51:ARG:CG	4:P:54:ILE:HD11	2.36	0.55
1:G:257:LEU:HD22	1:G:259:SER:HB3	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:248:ILE:HG22	1:L:250:VAL:N	2.21	0.55
1:L:257:LEU:HB2	1:L:258:GLU:HA	1.80	0.55
1:I:257:LEU:HB2	1:I:258:GLU:HA	1.79	0.55
1:D:437:GLY:C	1:D:438:TRP:CD1	2.80	0.55
1:J:672:ALA:HB2	1:J:894:ALA:HA	1.89	0.55
1:G:762:LYS:HE2	1:H:615:TYR:CD2	2.41	0.55
1:B:940:LEU:CD2	1:C:8:GLN:HB3	2.37	0.55
1:E:188:GLU:H	1:E:193:LYS:HD3	1.72	0.55
1:F:70:VAL:O	5:Q:90:ALA:O	2.25	0.55
1:C:640:GLN:NE2	1:C:929:ARG:NH2	2.47	0.55
1:D:425:LEU:HB3	1:F:267:SER:O	2.07	0.55
4:P:68:ASN:C	4:P:70:ASN:N	2.60	0.55
1:A:131:PRO:HG2	1:C:839:GLN:NE2	2.21	0.55
1:E:639:ASP:HB2	1:E:926:ARG:NH1	2.22	0.55
1:C:818:ILE:HD12	1:C:819:LEU:H	1.71	0.55
1:G:818:ILE:HD12	1:G:819:LEU:H	1.71	0.55
1:J:450:GLU:O	1:L:168:PHE:HA	2.07	0.55
1:D:407:ASP:O	1:E:126:LYS:HE2	2.07	0.55
1:L:763:ASP:O	1:L:767:VAL:HG23	2.06	0.55
1:L:213:THR:HG23	1:L:213:THR:O	2.06	0.55
1:J:842:PRO:HB3	1:K:235:SER:HB3	1.89	0.55
1:E:183:ILE:CG2	1:E:284:VAL:HB	2.37	0.55
1:A:250:VAL:O	1:A:251:LYS:CB	2.54	0.55
1:F:257:LEU:HD22	1:F:259:SER:HB3	1.89	0.55
1:G:248:ILE:HG22	1:G:250:VAL:N	2.22	0.55
1:G:252:GLN:O	1:G:253:GLN:CG	2.53	0.55
1:C:248:ILE:HG22	1:C:250:VAL:N	2.21	0.55
1:J:252:GLN:O	1:J:253:GLN:CG	2.53	0.55
1:J:257:LEU:HD22	1:J:259:SER:HB3	1.89	0.55
1:J:891:LEU:O	1:J:895:ASN:OD1	2.25	0.55
1:L:890:ASN:HB3	1:L:893:TYR:HD2	1.70	0.55
1:A:848:PRO:O	1:A:854:ALA:HA	2.06	0.55
1:B:188:GLU:H	1:B:193:LYS:HD3	1.72	0.55
1:K:283:VAL:HG21	1:L:453:VAL:CG2	2.36	0.55
5:R:106:GLN:C	5:R:107:LEU:HD23	2.27	0.55
1:J:635:ASN:HB2	4:P:173:THR:HG23	1.88	0.55
1:D:839:GLN:HA	1:E:170:GLN:OE1	2.07	0.55
1:F:419:VAL:HG21	1:F:452:ARG:CB	2.36	0.55
1:A:751:GLU:O	1:B:558:HIS:ND1	2.40	0.55
1:D:876:SER:CB	1:E:56:THR:HG21	2.35	0.55
1:I:419:VAL:HG21	1:I:452:ARG:CB	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:49:TYR:CD1	5:T:49:TYR:C	2.81	0.55
1:E:824:ASN:OD1	1:F:121:ASN:HA	2.07	0.55
1:I:639:ASP:HB2	1:I:926:ARG:NH1	2.22	0.55
1:F:818:ILE:HD12	1:F:819:LEU:H	1.71	0.55
1:B:818:ILE:HD12	1:B:819:LEU:H	1.71	0.55
1:B:499:THR:HG22	1:B:501:ASP:N	2.22	0.55
1:F:677:TRP:NE1	1:F:902:MET:HE2	2.22	0.55
1:D:889:GLN:OE1	1:E:50:ALA:O	2.24	0.55
1:A:213:THR:HG23	1:A:213:THR:O	2.05	0.55
1:K:669:ARG:HD3	4:O:28:SER:CB	2.36	0.55
1:F:437:GLY:C	1:F:438:TRP:CD1	2.76	0.55
1:A:178:ILE:CG2	1:A:281:PRO:CG	2.85	0.55
1:C:358:VAL:CG1	1:K:341:THR:HB	2.37	0.55
1:I:252:GLN:O	1:I:253:GLN:CG	2.53	0.55
1:F:58:ASP:HB2	1:K:59:ARG:HB2	1.89	0.55
1:J:895:ASN:HB2	4:P:214:PRO:HB2	1.89	0.55
2:M:154:THR:O	2:M:155:LYS:CB	2.45	0.55
1:K:848:PRO:O	1:K:854:ALA:HA	2.06	0.55
1:J:642:PHE:CE2	1:K:43:LYS:HA	2.42	0.55
1:K:839:GLN:HA	1:L:170:GLN:OE1	2.07	0.55
1:C:941:ARG:O	1:C:945:SER:CA	2.55	0.55
1:H:839:GLN:HA	1:I:170:GLN:OE1	2.07	0.55
1:D:419:VAL:HG21	1:D:452:ARG:CB	2.36	0.55
1:J:75:THR:CG2	1:J:76:ALA:H	2.18	0.55
1:E:499:THR:HG22	1:E:501:ASP:N	2.22	0.55
1:D:818:ILE:HD12	1:D:819:LEU:H	1.71	0.55
1:L:8:GLN:OE1	4:O:31:ILE:HD12	2.07	0.54
3:N:278:ILE:HG13	3:N:293:LEU:CD2	2.37	0.54
1:L:278:ASN:O	1:L:280:THR:N	2.41	0.54
1:D:178:ILE:CG2	1:D:281:PRO:CG	2.85	0.54
1:C:257:LEU:HD22	1:C:259:SER:HA	1.88	0.54
1:L:248:ILE:CG2	1:L:249:LEU:H	2.06	0.54
1:I:257:LEU:HD22	1:I:259:SER:HB3	1.89	0.54
1:D:438:TRP:CZ2	1:F:281:PRO:HD3	2.43	0.54
1:E:726:SER:O	1:E:727:SER:CB	2.52	0.54
1:C:763:ASP:O	1:C:767:VAL:HG23	2.06	0.54
1:J:463:LEU:HD21	1:L:463:LEU:CD2	2.25	0.54
1:I:427:LYS:HG2	1:I:445:PHE:HD2	1.67	0.54
1:D:853:THR:CG2	1:E:293:GLU:OE1	2.49	0.54
1:J:178:ILE:CG2	1:J:281:PRO:HG2	2.37	0.54
1:D:890:ASN:HD22	1:D:892:LEU:N	2.02	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:425:LEU:CD2	1:L:267:SER:O	2.47	0.54
1:G:94:ASP:CB	1:I:778:GLN:HG2	2.36	0.54
1:H:572:LEU:O	1:H:929:ARG:NH2	2.39	0.54
1:K:519:LEU:HD13	1:L:115:TYR:CE1	2.42	0.54
1:A:174:SER:HB2	1:A:215:ILE:CD1	2.38	0.54
1:L:499:THR:HG22	1:L:501:ASP:N	2.22	0.54
1:J:499:THR:HG22	1:J:501:ASP:N	2.22	0.54
1:B:419:VAL:HG21	1:B:452:ARG:CB	2.36	0.54
2:M:239:ASP:HB2	2:M:406:TRP:HB3	1.88	0.54
1:B:763:ASP:O	1:B:767:VAL:HG23	2.06	0.54
2:M:424:LEU:HD22	2:M:426:CYS:SG	2.46	0.54
1:J:248:ILE:HG22	1:J:250:VAL:N	2.21	0.54
1:J:250:VAL:O	1:J:251:LYS:CB	2.54	0.54
1:J:777:TYR:OH	1:K:63:LEU:HD21	2.07	0.54
1:D:948:ASN:HB2	1:D:949:ALA:CB	2.36	0.54
1:H:699:THR:CG2	5:S:32:SER:CB	2.73	0.54
1:E:890:ASN:HD22	1:E:892:LEU:N	2.02	0.54
1:G:43:LYS:HA	1:I:642:PHE:CE2	2.43	0.54
1:K:572:LEU:O	1:K:929:ARG:NH2	2.39	0.54
1:F:347:LEU:HD23	1:F:568:ILE:CG2	2.36	0.54
1:G:726:SER:HB3	1:J:670:ASN:HB2	1.89	0.54
1:J:926:ARG:HH22	4:P:179:ARG:HH12	1.53	0.54
1:C:749:ASP:O	1:E:77:TYR:HE2	1.90	0.54
1:K:824:ASN:OD1	1:L:121:ASN:HA	2.06	0.54
1:L:639:ASP:HB2	1:L:926:ARG:NH1	2.22	0.54
1:E:209:GLN:HE22	1:E:213:THR:HB	1.73	0.54
3:N:32:ASP:O	3:N:37:LEU:HB2	2.08	0.54
1:C:942:THR:HA	1:C:943:PRO:O	2.07	0.54
1:H:534:PHE:CD1	1:H:710:THR:HB	2.41	0.54
1:G:639:ASP:HB2	1:G:926:ARG:NH1	2.22	0.54
1:D:278:ASN:O	1:D:280:THR:N	2.40	0.54
1:C:252:GLN:O	1:C:253:GLN:CG	2.53	0.54
1:D:257:LEU:HD22	1:D:259:SER:HB3	1.88	0.54
1:D:428:VAL:CG1	1:D:438:TRP:HB3	2.38	0.54
1:F:278:ASN:O	1:F:280:THR:N	2.41	0.54
1:C:7:PRO:O	1:C:8:GLN:C	2.44	0.54
1:E:427:LYS:HG2	1:E:445:PHE:CD2	2.39	0.54
1:J:105:VAL:CG1	5:Q:56:PRO:HG2	2.37	0.54
1:I:188:GLU:H	1:I:193:LYS:HD3	1.72	0.54
1:J:835:MET:HA	1:L:412:TYR:HH	1.67	0.54
1:J:519:LEU:HD13	1:K:115:TYR:CE1	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:P:6:PRO:HG3	4:P:198:PHE:N	2.22	0.54
1:L:174:SER:HB2	1:L:215:ILE:CD1	2.38	0.54
2:M:72:VAL:HG22	2:M:73:ASP:N	2.22	0.54
1:C:499:THR:HG22	1:C:501:ASP:N	2.22	0.54
1:K:209:GLN:HE22	1:K:213:THR:HB	1.73	0.54
1:C:209:GLN:HE22	1:C:213:THR:HB	1.73	0.54
1:H:213:THR:HG23	1:H:213:THR:O	2.05	0.54
1:C:627:SER:OG	4:O:213:ILE:HD13	2.06	0.54
1:D:5:MET:HE2	1:F:894:ALA:HB1	1.87	0.54
1:G:941:ARG:HD2	1:G:944:PHE:O	2.08	0.54
1:B:360:LEU:HD13	2:M:108:THR:CG2	2.36	0.54
1:B:891:LEU:HB2	3:N:93:LEU:CB	2.20	0.54
1:L:427:LYS:HG2	1:L:445:PHE:CD2	2.39	0.54
1:A:187:VAL:HG23	1:A:187:VAL:O	2.08	0.54
1:C:187:VAL:HG23	1:C:187:VAL:O	2.08	0.54
1:L:188:GLU:H	1:L:193:LYS:HD3	1.72	0.54
1:D:282:LYS:O	1:D:283:VAL:HG23	2.07	0.54
1:D:188:GLU:H	1:D:193:LYS:HD3	1.72	0.54
5:Q:104:LEU:HD23	5:Q:104:LEU:N	2.23	0.54
1:K:928:HIS:CE1	4:O:39:HIS:ND1	2.64	0.54
2:M:180:THR:O	2:M:184:MET:HG3	2.08	0.54
1:F:938:VAL:HA	1:F:950:THR:C	2.28	0.54
1:E:252:GLN:O	1:E:253:GLN:CG	2.54	0.54
1:E:257:LEU:HD22	1:E:259:SER:HA	1.88	0.54
1:B:178:ILE:CG2	1:B:281:PRO:HG2	2.38	0.54
1:I:248:ILE:HG22	1:I:250:VAL:N	2.21	0.54
1:D:248:ILE:HG22	1:D:250:VAL:N	2.21	0.54
1:D:252:GLN:O	1:D:253:GLN:CG	2.54	0.54
1:E:66:ARG:HH12	1:E:68:ILE:HD11	1.71	0.54
1:I:905:GLU:OE2	5:T:22:TRP:CE3	2.60	0.54
1:G:556:PRO:CG	5:T:52:VAL:HG21	2.30	0.54
1:G:445:PHE:HZ	1:I:264:GLN:NE2	2.05	0.54
1:C:427:LYS:HG2	1:C:445:PHE:CD2	2.39	0.54
1:C:278:ASN:O	1:C:280:THR:N	2.40	0.54
1:H:824:ASN:N	1:I:121:ASN:OD1	2.28	0.54
1:I:499:THR:HG22	1:I:501:ASP:N	2.22	0.54
1:F:610:ASP:OD2	5:T:99:LYS:HB3	2.06	0.54
1:H:11:TYR:CE1	4:P:43:ARG:HG2	2.39	0.54
1:K:890:ASN:HB3	1:K:893:TYR:HD2	1.71	0.54
1:C:729:SER:N	1:E:947:GLY:HA2	2.21	0.54
1:F:428:VAL:CG1	1:F:438:TRP:HB3	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:257:LEU:HB2	1:H:258:GLU:HA	1.79	0.54
1:I:428:VAL:CG1	1:I:438:TRP:HB3	2.37	0.54
1:L:257:LEU:CA	1:L:258:GLU:O	2.56	0.54
1:I:251:LYS:CB	1:I:252:GLN:CA	2.56	0.54
1:A:68:ILE:HG21	1:E:73:GLU:HG2	1.89	0.54
1:L:229:MET:HE3	1:L:314:MET:CG	2.35	0.54
1:K:896:SER:HG	4:O:188:PHE:HE2	1.55	0.54
1:E:187:VAL:HG23	1:E:187:VAL:O	2.08	0.54
1:H:187:VAL:O	1:H:187:VAL:HG23	2.08	0.54
1:I:178:ILE:CG2	1:I:281:PRO:CG	2.84	0.54
1:F:188:GLU:H	1:F:193:LYS:HD3	1.72	0.54
1:J:551:ASN:CG	1:L:521:ALA:HB2	2.27	0.54
1:K:75:THR:CG2	1:K:76:ALA:H	2.18	0.54
1:B:779:GLY:CA	1:C:96:ALA:O	2.55	0.54
1:H:639:ASP:HB2	1:H:926:ARG:NH1	2.22	0.54
1:D:239:PRO:O	1:F:814:GLN:HG3	2.08	0.54
2:M:151:ARG:HG3	2:M:161:LEU:CD2	2.37	0.54
3:N:193:ARG:O	3:N:194:GLN:HG2	2.07	0.54
4:O:8:PRO:CG	4:O:51:ARG:NH1	2.57	0.54
3:N:294:GLU:CD	4:O:58:GLN:NE2	2.61	0.54
1:E:278:ASN:O	1:E:280:THR:N	2.41	0.54
1:C:250:VAL:O	1:C:251:LYS:CB	2.54	0.54
1:F:178:ILE:CG2	1:F:281:PRO:HG2	2.37	0.54
1:A:246:GLN:HE22	1:C:844:ASN:CA	2.19	0.54
5:R:107:LEU:N	5:R:107:LEU:HD23	2.23	0.54
1:I:66:ARG:HH12	1:I:68:ILE:HD11	1.72	0.54
1:E:734:ASP:O	1:F:62:ARG:HA	2.08	0.54
1:A:56:THR:HG21	1:C:876:SER:CB	2.34	0.54
1:A:735:ARG:HA	1:B:62:ARG:HA	1.90	0.54
1:J:208:SER:CB	1:L:301:TYR:OH	2.55	0.54
1:F:174:SER:HB2	1:F:215:ILE:CD1	2.38	0.54
1:G:121:ASN:HA	1:I:824:ASN:OD1	2.08	0.54
1:H:209:GLN:HE22	1:H:213:THR:HB	1.73	0.54
1:D:456:ASN:O	1:E:836:ARG:NH1	2.41	0.54
2:M:146:ARG:O	2:M:246:CYS:HB2	2.07	0.54
1:I:678:ALA:HB3	1:I:918:LEU:HB2	1.90	0.54
1:G:948:ASN:C	4:P:30:ARG:NH1	2.50	0.54
1:L:719:LYS:NZ	5:Q:22:TRP:CG	2.76	0.54
1:E:248:ILE:C	1:E:249:LEU:HG	2.28	0.54
1:J:556:PRO:HG2	5:Q:52:VAL:HG21	1.89	0.54
1:B:252:GLN:O	1:B:253:GLN:CG	2.54	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3:PRO:CD	2:M:115:ASP:CB	2.86	0.54
1:J:615:TYR:CE2	1:L:762:LYS:HE2	2.43	0.54
1:C:66:ARG:HH12	1:C:68:ILE:HD11	1.72	0.54
5:R:107:LEU:N	5:R:107:LEU:CD2	2.70	0.54
1:J:278:ASN:O	1:J:280:THR:N	2.41	0.54
1:I:278:ASN:O	1:I:280:THR:N	2.41	0.54
1:D:208:SER:HB3	1:F:301:TYR:OH	2.07	0.54
1:D:174:SER:HB2	1:D:215:ILE:CD1	2.38	0.54
1:G:174:SER:HB2	1:G:215:ILE:CD1	2.38	0.54
1:J:174:SER:HB2	1:J:215:ILE:CD1	2.38	0.54
1:I:174:SER:HB2	1:I:215:ILE:CD1	2.38	0.54
2:M:76:SER:HB2	2:M:83:ASN:ND2	2.22	0.54
1:B:678:ALA:HB3	1:B:918:LEU:HB2	1.90	0.54
1:E:250:VAL:O	1:E:251:LYS:CB	2.54	0.54
1:H:257:LEU:CA	1:H:258:GLU:O	2.56	0.54
1:G:278:ASN:O	1:G:280:THR:N	2.41	0.54
1:F:632:MET:SD	4:P:201:PHE:CZ	3.00	0.54
1:L:13:HIS:CE1	1:L:22:TYR:CD1	2.96	0.54
1:I:13:HIS:CE1	1:I:22:TYR:CD1	2.96	0.54
1:C:349:GLY:HA2	1:C:578:TYR:HA	1.90	0.54
1:I:444:GLU:CB	1:I:445:PHE:C	2.70	0.54
1:J:188:GLU:H	1:J:193:LYS:HD3	1.72	0.54
1:H:853:THR:HG21	1:I:295:PRO:CB	2.21	0.54
1:G:188:GLU:H	1:G:193:LYS:HD3	1.72	0.54
1:B:737:LEU:HA	1:C:62:ARG:CZ	2.37	0.54
1:A:876:SER:CB	1:B:56:THR:HG21	2.24	0.54
1:L:66:ARG:HH12	1:L:68:ILE:HD11	1.72	0.54
1:E:737:LEU:CA	1:F:62:ARG:HH21	2.20	0.54
1:D:861:LYS:NZ	5:R:52:VAL:CG2	2.71	0.54
1:D:558:HIS:CE1	1:F:752:GLY:O	2.60	0.54
1:G:115:TYR:CG	1:I:519:LEU:HD22	2.43	0.54
1:A:278:ASN:O	1:A:280:THR:N	2.40	0.54
1:A:639:ASP:HB2	1:A:926:ARG:NH1	2.22	0.54
1:J:209:GLN:HE22	1:J:213:THR:HB	1.73	0.54
1:L:4:SER:HB2	4:O:55:LEU:CD1	2.11	0.54
1:H:4:SER:N	4:P:54:ILE:CG1	2.71	0.54
1:G:727:SER:CB	4:P:15:PRO:HG2	2.33	0.54
1:G:940:LEU:HD13	4:P:31:ILE:CA	2.38	0.54
1:B:257:LEU:CA	1:B:258:GLU:O	2.56	0.54
1:L:248:ILE:C	1:L:249:LEU:HG	2.29	0.54
1:B:673:ALA:HB2	1:C:9:TRP:HZ2	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:892:LEU:CB	4:P:103:ASN:HB3	2.28	0.54
1:E:427:LYS:HG2	1:E:445:PHE:HD2	1.67	0.54
1:K:187:VAL:O	1:K:187:VAL:HG23	2.08	0.54
1:B:853:THR:HG21	1:C:295:PRO:CB	2.23	0.54
1:L:187:VAL:O	1:L:187:VAL:HG23	2.08	0.54
5:S:39:VAL:HG12	5:S:40:LEU:N	2.23	0.54
5:R:117:VAL:HG13	5:S:114:LEU:CD2	2.29	0.54
1:A:43:LYS:HD3	1:C:570:ASN:O	2.08	0.54
3:N:147:LEU:CD2	3:N:169:ARG:NH2	2.71	0.54
1:H:520:GLY:HA3	1:I:114:PRO:CG	2.39	0.54
1:J:639:ASP:HB2	1:J:926:ARG:NH1	2.22	0.54
1:B:278:ASN:O	1:B:280:THR:N	2.40	0.54
5:T:39:VAL:HG12	5:T:40:LEU:N	2.23	0.54
1:L:678:ALA:HB3	1:L:918:LEU:HB2	1.90	0.54
2:M:444:MET:HB2	2:M:539:GLN:HE22	1.72	0.54
1:A:8:GLN:NE2	4:O:34:MET:O	2.42	0.53
1:G:945:SER:CB	4:P:30:ARG:H	2.21	0.53
1:H:6:MET:H	1:H:7:PRO:CD	2.19	0.53
1:D:257:LEU:CA	1:D:258:GLU:O	2.56	0.53
1:F:178:ILE:CG2	1:F:281:PRO:CG	2.87	0.53
1:F:13:HIS:CE1	1:F:22:TYR:CD1	2.96	0.53
1:C:737:LEU:CB	1:C:753:TYR:HE2	2.20	0.53
1:D:229:MET:HE3	1:D:314:MET:CG	2.35	0.53
1:J:13:HIS:CE1	1:J:22:TYR:CD1	2.96	0.53
1:A:463:LEU:CD1	1:B:463:LEU:HD23	2.18	0.53
1:J:444:GLU:CB	1:J:445:PHE:C	2.70	0.53
1:A:188:GLU:H	1:A:193:LYS:HD3	1.72	0.53
1:F:187:VAL:O	1:F:187:VAL:HG23	2.08	0.53
1:D:95:MET:HG2	1:D:573:LEU:CD1	2.38	0.53
1:D:267:SER:O	1:E:425:LEU:CD2	2.51	0.53
1:H:174:SER:HB2	1:H:215:ILE:CD1	2.38	0.53
1:D:43:LYS:NZ	1:F:94:ASP:OD2	2.38	0.53
1:B:639:ASP:HB2	1:B:926:ARG:NH1	2.22	0.53
1:G:820:HIS:HB3	1:H:243:ASN:O	2.08	0.53
1:C:942:THR:HA	1:C:943:PRO:C	2.28	0.53
1:E:355:ASN:ND2	1:E:357:VAL:H	2.06	0.53
1:C:678:ALA:HB3	1:C:918:LEU:HB2	1.90	0.53
1:E:941:ARG:O	1:E:945:SER:HA	2.08	0.53
1:L:905:GLU:OE2	5:Q:22:TRP:HE3	1.90	0.53
1:A:252:GLN:O	1:A:253:GLN:CG	2.53	0.53
4:P:36:ALA:HB1	4:P:40:MET:SD	2.49	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:939:TYR:O	1:B:948:ASN:N	2.42	0.53
1:A:463:LEU:CD1	1:B:463:LEU:CD2	2.81	0.53
1:H:165:THR:O	1:I:445:PHE:CA	2.53	0.53
1:H:521:ALA:HB2	1:I:551:ASN:CG	2.29	0.53
1:J:637:THR:HG21	4:P:173:THR:HG22	1.88	0.53
1:F:95:MET:HG2	1:F:573:LEU:CD1	2.39	0.53
1:J:94:ASP:OD2	1:L:778:GLN:NE2	2.33	0.53
1:L:944:PHE:O	1:L:945:SER:C	2.47	0.53
1:B:520:GLY:HA3	1:C:114:PRO:CG	2.38	0.53
1:K:278:ASN:O	1:K:280:THR:N	2.41	0.53
1:D:836:ARG:NH1	1:F:456:ASN:O	2.41	0.53
1:E:678:ALA:HB3	1:E:918:LEU:HB2	1.90	0.53
1:C:627:SER:O	4:O:213:ILE:HD13	2.09	0.53
1:H:13:HIS:CE1	1:H:22:TYR:CD1	2.96	0.53
3:N:274:THR:O	3:N:278:ILE:HG12	2.08	0.53
1:H:248:ILE:C	1:H:249:LEU:HG	2.28	0.53
1:F:248:ILE:HG23	1:F:250:VAL:HG12	1.87	0.53
1:C:947:GLY:HA3	1:K:355:ASN:OD1	2.08	0.53
1:D:248:ILE:C	1:D:249:LEU:HG	2.28	0.53
1:J:69:PRO:CA	1:J:83:PHE:CD2	2.91	0.53
1:D:905:GLU:OE2	5:R:22:TRP:CE3	2.62	0.53
3:N:272:GLU:HG2	4:O:61:ILE:CA	2.37	0.53
1:J:165:THR:HB	1:K:445:PHE:CD1	2.43	0.53
1:K:188:GLU:H	1:K:193:LYS:HD3	1.72	0.53
1:C:188:GLU:H	1:C:193:LYS:HD3	1.72	0.53
1:L:95:MET:HG2	1:L:573:LEU:CD1	2.39	0.53
1:A:95:MET:HG2	1:A:573:LEU:CD1	2.39	0.53
1:A:835:MET:HA	1:C:412:TYR:HH	1.70	0.53
1:A:737:LEU:HB2	1:A:753:TYR:HE2	1.73	0.53
1:G:777:TYR:CE1	1:H:63:LEU:HD21	2.42	0.53
1:J:570:ASN:O	1:K:43:LYS:HD3	2.09	0.53
1:G:267:SER:O	1:H:425:LEU:CB	2.56	0.53
1:E:751:GLU:HB2	1:F:103:ARG:NH2	2.24	0.53
1:D:119:ALA:HB2	1:F:519:LEU:CD1	2.38	0.53
1:H:602:VAL:O	1:H:602:VAL:HG12	2.08	0.53
1:K:499:THR:HG22	1:K:501:ASP:N	2.22	0.53
3:N:228:LEU:HD11	3:N:257:LEU:HD11	1.89	0.53
1:F:88:GLY:HA2	4:P:226:TYR:CE1	2.43	0.53
1:A:22:TYR:HE1	1:A:23:LEU:CD2	2.14	0.53
1:K:943:PRO:CA	4:O:28:SER:O	2.56	0.53
1:H:11:TYR:CD1	4:P:43:ARG:CD	2.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:257:LEU:CA	1:E:258:GLU:O	2.56	0.53
1:B:180:LYS:HE3	1:C:430:PRO:CG	2.37	0.53
1:D:24:SER:CB	4:P:201:PHE:O	2.41	0.53
1:C:13:HIS:CE1	1:C:22:TYR:CD1	2.96	0.53
1:F:427:LYS:HG2	1:F:445:PHE:CD2	2.39	0.53
1:K:178:ILE:CG2	1:K:281:PRO:CG	2.86	0.53
1:L:444:GLU:CB	1:L:445:PHE:C	2.70	0.53
1:C:623:HIS:C	4:O:222:SER:HB2	2.29	0.53
1:B:187:VAL:O	1:B:187:VAL:HG23	2.08	0.53
1:D:746:ARG:HD3	1:D:750:GLY:HA3	1.90	0.53
1:A:777:TYR:OH	1:B:63:LEU:HD21	2.08	0.53
1:D:235:SER:HB3	1:F:842:PRO:HB3	1.90	0.53
1:K:95:MET:HG2	1:K:573:LEU:CD1	2.39	0.53
1:E:267:SER:O	1:F:425:LEU:CD2	2.54	0.53
1:D:62:ARG:HA	1:F:734:ASP:O	2.08	0.53
1:J:663:PRO:HD2	5:Q:92:ARG:NH2	2.24	0.53
1:G:301:TYR:OH	1:H:208:SER:OG	2.23	0.53
1:I:209:GLN:HE22	1:I:213:THR:HB	1.73	0.53
1:G:820:HIS:HA	1:H:204:GLN:HE22	1.73	0.53
1:J:355:ASN:ND2	1:J:357:VAL:H	2.07	0.53
1:G:116:SER:O	1:I:404:GLY:HA3	2.09	0.53
1:D:678:ALA:HB3	1:D:918:LEU:HB2	1.90	0.53
1:K:678:ALA:HB3	1:K:918:LEU:HB2	1.90	0.53
1:J:654:PRO:HD2	5:Q:84:PRO:HG2	1.70	0.53
1:F:639:ASP:HB2	1:F:926:ARG:NH1	2.22	0.53
1:G:725:ASP:HB3	4:P:15:PRO:CG	2.39	0.53
5:Q:39:VAL:HG12	5:Q:40:LEU:N	2.23	0.53
1:L:759:ASN:N	5:Q:50:GLU:OE2	2.42	0.53
1:E:428:VAL:CG1	1:E:438:TRP:HB3	2.38	0.53
1:C:948:ASN:ND2	1:C:949:ALA:N	2.56	0.53
1:J:257:LEU:CA	1:J:258:GLU:O	2.56	0.53
1:F:341:THR:O	1:G:692:SER:HA	2.09	0.53
1:D:13:HIS:CE1	1:D:22:TYR:CD1	2.96	0.53
1:B:362:ASP:HB3	2:M:108:THR:HG22	1.91	0.53
1:J:13:HIS:O	1:J:47:PRO:HB3	2.09	0.53
1:B:13:HIS:CE1	1:B:22:TYR:CD1	2.96	0.53
1:G:427:LYS:HG2	1:G:445:PHE:CD2	2.39	0.53
1:K:427:LYS:HG2	1:K:445:PHE:CD2	2.39	0.53
1:J:165:THR:N	1:K:445:PHE:H	2.07	0.53
1:D:777:TYR:CZ	1:E:63:LEU:HD21	2.43	0.53
1:J:187:VAL:HG23	1:J:187:VAL:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:186:GLY:C	1:B:187:VAL:HG13	2.29	0.53
1:D:187:VAL:HG23	1:D:187:VAL:O	2.08	0.53
1:D:551:ASN:CG	1:F:521:ALA:HB2	2.29	0.53
1:H:170:GLN:HA	1:I:452:ARG:O	2.08	0.53
5:R:39:VAL:HG12	5:R:40:LEU:N	2.23	0.53
1:D:639:ASP:HB2	1:D:926:ARG:NH1	2.22	0.53
3:N:33:ARG:O	3:N:34:ILE:HG12	2.08	0.53
1:J:239:PRO:O	1:L:814:GLN:HG3	2.09	0.53
3:N:194:GLN:HA	4:O:207:HIS:HB3	1.91	0.53
1:C:631:ALA:C	4:O:201:PHE:HZ	2.11	0.53
1:L:7:PRO:HB3	4:O:47:ILE:CG2	2.34	0.53
1:G:896:SER:HG	4:P:188:PHE:HE2	1.55	0.53
1:L:3:PRO:HB3	4:O:54:ILE:CG2	2.35	0.53
1:A:248:ILE:HG23	1:A:250:VAL:HG12	1.87	0.53
1:F:248:ILE:C	1:F:249:LEU:HG	2.28	0.53
1:C:257:LEU:CA	1:C:258:GLU:O	2.56	0.53
1:C:257:LEU:HD22	1:C:259:SER:HB3	1.89	0.53
1:C:691:GLY:C	1:K:77:TYR:HE2	2.10	0.53
1:A:70:VAL:HA	1:E:71:ASP:OD1	2.08	0.53
1:E:809:LYS:HE2	5:T:106:GLN:HB3	1.90	0.53
1:H:188:GLU:H	1:H:193:LYS:HD3	1.72	0.53
1:A:859:THR:OG1	1:B:556:PRO:CD	2.54	0.53
1:D:759:ASN:HB3	5:R:50:GLU:HB2	1.90	0.53
1:B:174:SER:HB2	1:B:215:ILE:CD1	2.38	0.53
1:A:926:ARG:N	1:B:12:MET:HE1	2.24	0.53
1:B:355:ASN:ND2	1:B:357:VAL:H	2.07	0.53
1:G:341:THR:HG22	1:G:344:MET:CE	2.39	0.53
1:G:891:LEU:C	4:P:189:ILE:HG23	2.28	0.53
1:B:248:ILE:HG23	1:B:250:VAL:HG12	1.87	0.53
4:P:37:GLY:N	4:P:40:MET:CG	2.72	0.53
1:K:432:THR:HG22	1:K:439:GLU:HG3	1.79	0.53
1:F:257:LEU:CA	1:F:258:GLU:O	2.56	0.53
1:B:180:LYS:CD	1:C:430:PRO:HG3	2.36	0.53
1:C:432:THR:HG22	1:C:439:GLU:HG3	1.84	0.53
1:D:251:LYS:CB	1:D:252:GLN:CA	2.56	0.53
1:K:257:LEU:CA	1:K:258:GLU:O	2.56	0.53
1:K:257:LEU:HD22	1:K:259:SER:HB3	1.89	0.53
1:B:853:THR:CG2	1:C:293:GLU:OE1	2.49	0.53
1:D:186:GLY:C	1:D:187:VAL:HG13	2.29	0.53
1:I:95:MET:HG2	1:I:573:LEU:CD1	2.39	0.53
1:B:95:MET:HG2	1:B:573:LEU:CD1	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:778:GLN:HG2	1:H:94:ASP:OD2	2.09	0.53
1:G:209:GLN:HE22	1:G:213:THR:HB	1.73	0.53
1:F:678:ALA:HB3	1:F:918:LEU:HB2	1.90	0.53
1:H:677:TRP:NE1	1:H:902:MET:HE2	2.23	0.53
1:D:355:ASN:ND2	1:D:357:VAL:H	2.07	0.53
1:A:13:HIS:CE1	1:A:22:TYR:CD1	2.96	0.53
1:A:7:PRO:HB3	4:O:41:ILE:HD11	1.83	0.53
1:G:891:LEU:HB3	4:P:189:ILE:HG22	1.90	0.53
1:G:362:ASP:CB	1:G:941:ARG:HH22	2.17	0.53
3:N:278:ILE:HG13	3:N:293:LEU:HD21	1.90	0.53
1:C:724:PHE:O	1:C:728:VAL:HG22	2.09	0.53
1:E:178:ILE:HG22	1:E:281:PRO:HG3	1.91	0.53
1:G:938:VAL:N	4:P:40:MET:HE1	2.24	0.53
1:C:257:LEU:HB2	1:C:258:GLU:HA	1.79	0.53
1:K:355:ASN:ND2	1:K:357:VAL:H	2.07	0.53
1:K:257:LEU:HB2	1:K:258:GLU:HA	1.79	0.53
1:F:444:GLU:CA	1:F:445:PHE:CB	2.67	0.53
1:J:293:GLU:OE1	1:L:853:THR:CG2	2.51	0.53
1:G:186:GLY:C	1:G:187:VAL:HG13	2.29	0.53
1:G:187:VAL:O	1:G:187:VAL:HG23	2.08	0.53
1:I:187:VAL:O	1:I:187:VAL:HG23	2.08	0.53
1:A:430:PRO:HG3	1:C:180:LYS:CD	2.38	0.53
1:A:551:ASN:CG	1:C:521:ALA:HB2	2.28	0.53
1:G:95:MET:HG2	1:G:573:LEU:CD1	2.39	0.53
4:O:92:PRO:O	4:O:93:ARG:CB	2.57	0.53
1:E:75:THR:CG2	1:E:76:ALA:H	2.18	0.53
1:A:243:ASN:O	1:C:820:HIS:HB3	2.09	0.53
1:H:278:ASN:O	1:H:280:THR:N	2.41	0.53
1:B:209:GLN:HE22	1:B:213:THR:HB	1.73	0.53
1:L:209:GLN:HE22	1:L:213:THR:HB	1.73	0.53
3:N:206:LYS:C	3:N:208:LEU:H	2.13	0.53
1:K:949:ALA:HB2	4:O:30:ARG:NH1	2.23	0.53
1:I:948:ASN:HD22	1:I:949:ALA:CB	2.17	0.53
1:F:610:ASP:HB3	5:T:99:LYS:HD3	1.91	0.53
1:H:8:GLN:OE1	4:P:31:ILE:HD12	2.09	0.53
1:C:890:ASN:HD21	1:C:892:LEU:HD13	1.73	0.53
1:B:257:LEU:HD22	1:B:259:SER:HB3	1.89	0.53
1:H:257:LEU:HD22	1:H:259:SER:HA	1.89	0.53
1:A:432:THR:HG22	1:A:439:GLU:HG3	1.85	0.53
1:B:178:ILE:CG2	1:B:281:PRO:CG	2.87	0.53
1:L:257:LEU:HD22	1:L:259:SER:HB3	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:249:LEU:CD2	1:I:257:LEU:HD11	2.20	0.53
1:J:890:ASN:HB3	1:J:893:TYR:CD2	2.41	0.53
1:K:248:ILE:C	1:K:249:LEU:HG	2.29	0.53
1:K:13:HIS:CE1	1:K:22:TYR:CD1	2.96	0.53
1:G:463:LEU:CD1	1:H:463:LEU:CD2	2.83	0.53
1:K:186:GLY:C	1:K:187:VAL:HG13	2.29	0.53
5:S:113:GLU:O	5:S:117:VAL:HG23	2.08	0.53
1:H:95:MET:HG2	1:H:573:LEU:CD1	2.39	0.53
1:A:267:SER:O	1:B:425:LEU:CD2	2.56	0.53
1:A:181:GLU:HB2	1:A:194:TYR:CZ	2.44	0.53
1:D:642:PHE:CE2	1:E:43:LYS:HA	2.44	0.53
1:D:52:THR:HG21	1:F:889:GLN:NE2	2.24	0.53
1:A:355:ASN:ND2	1:A:357:VAL:H	2.07	0.53
4:O:6:PRO:HG3	4:O:198:PHE:HA	1.90	0.53
1:G:355:ASN:ND2	1:G:357:VAL:H	2.07	0.53
1:F:947:GLY:O	1:G:357:VAL:O	2.27	0.53
1:L:719:LYS:NZ	5:Q:22:TRP:CB	2.71	0.53
1:E:257:LEU:HD22	1:E:259:SER:HB3	1.89	0.53
2:M:39:PRO:HB3	3:N:27:TRP:NE1	2.23	0.53
5:Q:111:THR:HG21	5:T:110:LEU:HD12	1.83	0.53
1:E:809:LYS:HE2	5:T:106:GLN:HA	1.91	0.53
1:G:13:HIS:CE1	1:G:22:TYR:CD1	2.96	0.53
1:B:13:HIS:O	1:B:47:PRO:HB3	2.09	0.53
1:C:444:GLU:CB	1:C:445:PHE:C	2.70	0.53
1:J:105:VAL:CB	5:Q:56:PRO:HG2	2.39	0.53
1:A:853:THR:HG21	1:B:295:PRO:CB	2.23	0.53
1:J:95:MET:HG2	1:J:573:LEU:CD1	2.39	0.53
1:L:419:VAL:CG2	1:L:452:ARG:HG2	2.39	0.53
1:C:95:MET:HG2	1:C:573:LEU:CD1	2.39	0.53
1:K:820:HIS:HB3	1:L:243:ASN:O	2.09	0.53
1:C:181:GLU:HB2	1:C:194:TYR:CZ	2.44	0.53
1:C:207:GLU:HG3	1:C:215:ILE:HD11	1.91	0.53
1:C:174:SER:HB2	1:C:215:ILE:CD1	2.38	0.53
1:G:75:THR:HG22	1:G:76:ALA:N	2.24	0.53
1:F:499:THR:O	1:F:503:MET:HG3	2.09	0.53
2:M:102:SER:HB3	2:M:103:PRO:CD	2.38	0.53
1:D:209:GLN:HE22	1:D:213:THR:HB	1.73	0.53
1:G:677:TRP:NE1	1:G:902:MET:HE2	2.24	0.53
2:M:550:THR:O	2:M:552:PRO:HD3	2.08	0.53
5:Q:39:VAL:HG12	5:Q:40:LEU:H	1.74	0.52
1:A:257:LEU:CA	1:A:258:GLU:O	2.56	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:248:ILE:C	1:G:249:LEU:HG	2.29	0.52
1:E:13:HIS:CE1	1:E:22:TYR:CD1	2.97	0.52
1:E:13:HIS:O	1:E:47:PRO:HB3	2.09	0.52
1:I:925:VAL:HG22	1:I:939:TYR:CD1	2.45	0.52
1:A:444:GLU:CB	1:A:445:PHE:C	2.70	0.52
1:K:264:GLN:NE2	1:L:445:PHE:HZ	2.06	0.52
1:J:105:VAL:HG21	5:Q:56:PRO:C	2.29	0.52
1:L:282:LYS:O	1:L:283:VAL:HG23	2.09	0.52
5:S:117:VAL:O	5:S:121:LEU:HB2	2.08	0.52
1:K:639:ASP:HB2	1:K:926:ARG:NH1	2.22	0.52
1:C:419:VAL:HG21	1:C:452:ARG:HG2	1.92	0.52
1:E:520:GLY:HA3	1:F:114:PRO:CG	2.39	0.52
1:E:751:GLU:O	1:F:558:HIS:ND1	2.41	0.52
1:F:691:GLY:C	1:G:77:TYR:CE2	2.78	0.52
5:R:39:VAL:HG12	5:R:40:LEU:H	1.74	0.52
1:F:181:GLU:HB2	1:F:194:TYR:CZ	2.44	0.52
1:E:207:GLU:HG3	1:E:215:ILE:HD11	1.91	0.52
1:I:327:ALA:HB2	1:I:546:SER:HA	1.91	0.52
1:A:678:ALA:HB3	1:A:918:LEU:HB2	1.90	0.52
1:J:285:LEU:HD11	1:K:451:ILE:HD13	1.91	0.52
1:C:925:VAL:HG22	1:C:939:TYR:CD1	2.45	0.52
1:K:945:SER:OG	4:O:30:ARG:HB2	2.09	0.52
1:K:897:ALA:HB2	4:O:10:MET:SD	2.49	0.52
3:N:198:THR:CB	4:O:199:ASN:CB	2.87	0.52
1:C:632:MET:HG3	4:O:201:PHE:CE2	2.37	0.52
1:D:8:GLN:NE2	4:P:34:MET:SD	2.82	0.52
1:K:892:LEU:HB2	4:O:189:ILE:HD13	1.86	0.52
1:L:178:ILE:CG2	1:L:281:PRO:HG2	2.40	0.52
1:A:257:LEU:HD22	1:A:259:SER:HA	1.88	0.52
1:G:248:ILE:HG23	1:G:250:VAL:HG12	1.87	0.52
1:C:248:ILE:C	1:C:249:LEU:HG	2.29	0.52
1:L:248:ILE:HG23	1:L:250:VAL:HG12	1.87	0.52
1:F:60:SER:H	1:K:60:SER:CB	2.15	0.52
4:P:22:GLY:HA3	4:P:214:PRO:CA	2.39	0.52
1:J:892:LEU:CD1	4:P:224:ASP:OD1	2.52	0.52
3:N:27:TRP:CE3	3:N:31:MET:HB2	2.44	0.52
1:F:629:LEU:O	1:F:632:MET:CG	2.57	0.52
1:B:673:ALA:HB2	1:C:9:TRP:CZ2	2.44	0.52
1:C:13:HIS:O	1:C:47:PRO:HB3	2.09	0.52
4:P:91:LEU:N	4:P:91:LEU:HD22	2.24	0.52
1:J:925:VAL:HG22	1:J:939:TYR:CD1	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:13:HIS:O	1:K:47:PRO:HB3	2.09	0.52
1:L:925:VAL:HG22	1:L:939:TYR:CD1	2.44	0.52
1:D:444:GLU:CB	1:D:445:PHE:C	2.70	0.52
1:F:925:VAL:HG22	1:F:939:TYR:CD1	2.45	0.52
1:G:184:GLN:HE21	1:G:187:VAL:HG13	1.75	0.52
1:H:601:ARG:HG3	5:S:32:SER:OG	2.09	0.52
1:F:282:LYS:O	1:F:283:VAL:HG23	2.09	0.52
5:S:49:TYR:CD1	5:S:49:TYR:C	2.79	0.52
1:G:43:LYS:HD3	1:I:570:ASN:O	2.09	0.52
1:G:419:VAL:CG2	1:G:452:ARG:HG2	2.40	0.52
1:I:419:VAL:HG21	1:I:452:ARG:HG2	1.91	0.52
1:E:174:SER:HB2	1:E:215:ILE:CD1	2.38	0.52
1:K:824:ASN:N	1:L:121:ASN:OD1	2.28	0.52
1:A:499:THR:O	1:A:503:MET:HG3	2.09	0.52
1:A:419:VAL:CG2	1:A:452:ARG:HG2	2.40	0.52
1:F:209:GLN:HE22	1:F:213:THR:HB	1.73	0.52
2:M:226:VAL:HG12	2:M:228:PRO:HD2	1.89	0.52
1:H:678:ALA:HB3	1:H:918:LEU:HB2	1.90	0.52
1:G:327:ALA:HB2	1:G:546:SER:HA	1.92	0.52
1:J:126:LYS:HE2	1:L:407:ASP:O	2.09	0.52
1:H:4:SER:N	4:P:54:ILE:HG13	2.24	0.52
1:G:948:ASN:HB2	4:P:33:TYR:CE2	2.44	0.52
1:H:5:MET:HB3	4:P:51:ARG:HD2	1.79	0.52
1:K:677:TRP:NE1	1:K:902:MET:HE2	2.24	0.52
4:O:37:GLY:N	4:O:40:MET:CG	2.72	0.52
1:D:13:HIS:O	1:D:47:PRO:HB3	2.09	0.52
2:M:105:GLU:HG3	2:M:106:ALA:N	2.24	0.52
1:G:103:ARG:HD2	1:I:752:GLY:CA	2.35	0.52
1:A:925:VAL:HG22	1:A:939:TYR:CD1	2.45	0.52
1:B:19:ALA:O	1:B:23:LEU:CG	2.58	0.52
1:C:266:PHE:CE1	1:C:285:LEU:HD12	2.45	0.52
1:J:184:GLN:HE21	1:J:187:VAL:HG13	1.75	0.52
1:J:186:GLY:C	1:J:187:VAL:HG13	2.29	0.52
1:A:186:GLY:C	1:A:187:VAL:HG13	2.29	0.52
1:D:184:GLN:HE21	1:D:187:VAL:HG13	1.75	0.52
1:E:570:ASN:O	1:F:43:LYS:HD3	2.09	0.52
1:C:75:THR:CG2	1:C:76:ALA:H	2.18	0.52
1:F:419:VAL:CG2	1:F:452:ARG:HG2	2.39	0.52
1:D:62:ARG:CG	1:F:734:ASP:O	2.56	0.52
1:J:208:SER:HB3	1:L:301:TYR:OH	2.09	0.52
1:E:519:LEU:CD1	1:F:119:ALA:HB2	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:75:THR:HG22	1:A:76:ALA:N	2.24	0.52
1:A:209:GLN:HE22	1:A:213:THR:HB	1.73	0.52
1:I:355:ASN:ND2	1:I:357:VAL:H	2.07	0.52
1:L:355:ASN:ND2	1:L:357:VAL:H	2.07	0.52
1:J:678:ALA:HB3	1:J:918:LEU:HB2	1.90	0.52
1:H:355:ASN:ND2	1:H:357:VAL:H	2.07	0.52
1:C:637:THR:CB	4:O:200:PRO:HB2	2.40	0.52
1:G:925:VAL:HG22	1:G:939:TYR:CD1	2.45	0.52
1:H:3:PRO:C	4:P:54:ILE:HD12	2.30	0.52
1:B:429:LYS:O	1:B:438:TRP:HD1	1.92	0.52
1:E:438:TRP:HD1	1:E:438:TRP:N	2.07	0.52
1:G:257:LEU:CA	1:G:258:GLU:O	2.56	0.52
1:I:248:ILE:HG23	1:I:250:VAL:HG12	1.87	0.52
1:I:257:LEU:CA	1:I:258:GLU:O	2.56	0.52
1:G:134:TRP:O	1:G:165:THR:HA	2.10	0.52
1:H:925:VAL:HG22	1:H:939:TYR:CD1	2.45	0.52
2:M:48:PRO:HB3	3:N:106:ASN:CA	2.38	0.52
1:B:165:THR:O	1:C:445:PHE:CA	2.51	0.52
1:J:105:VAL:HG11	5:Q:56:PRO:HB2	1.91	0.52
1:B:184:GLN:HE21	1:B:187:VAL:HG13	1.75	0.52
1:C:186:GLY:C	1:C:187:VAL:HG13	2.29	0.52
5:S:39:VAL:HG12	5:S:40:LEU:H	1.74	0.52
1:J:282:LYS:O	1:J:283:VAL:HG23	2.08	0.52
1:E:737:LEU:O	1:F:62:ARG:NH2	2.42	0.52
1:B:572:LEU:HD22	1:C:40:LEU:CD2	2.40	0.52
1:K:419:VAL:HG21	1:K:452:ARG:HG2	1.92	0.52
1:A:267:SER:O	1:B:425:LEU:CB	2.57	0.52
1:C:889:GLN:HG2	1:C:889:GLN:O	2.09	0.52
1:G:211:TYR:CE1	1:I:311:ARG:NH1	2.77	0.52
1:G:514:ASP:O	1:G:517:ILE:HG22	2.10	0.52
1:E:456:ASN:O	1:F:836:ARG:NH1	2.42	0.52
1:F:88:GLY:HA2	4:P:226:TYR:HE1	1.75	0.52
4:O:213:ILE:CG2	4:O:214:PRO:HD2	2.39	0.52
4:P:208:TYR:CB	4:P:209:PRO:CD	2.83	0.52
1:K:889:GLN:HG2	1:K:889:GLN:O	2.09	0.52
3:N:294:GLU:O	3:N:298:ASN:HB2	2.09	0.52
4:O:36:ALA:HB1	4:O:40:MET:SD	2.49	0.52
1:G:733:ASN:HB3	1:H:60:SER:HA	1.92	0.52
1:D:19:ALA:O	1:D:23:LEU:CG	2.58	0.52
1:K:19:ALA:O	1:K:23:LEU:CG	2.58	0.52
1:E:165:THR:HB	1:F:445:PHE:CD1	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:427:LYS:HG2	1:J:445:PHE:HD2	1.67	0.52
1:E:925:VAL:HG22	1:E:939:TYR:CD1	2.45	0.52
1:E:184:GLN:HE21	1:E:187:VAL:HG13	1.75	0.52
1:H:186:GLY:C	1:H:187:VAL:HG13	2.29	0.52
1:K:184:GLN:NE2	1:K:187:VAL:HG13	2.25	0.52
1:C:184:GLN:HE21	1:C:187:VAL:HG13	1.75	0.52
1:J:178:ILE:CG2	1:J:281:PRO:CG	2.88	0.52
1:L:184:GLN:HE21	1:L:187:VAL:HG13	1.75	0.52
1:F:75:THR:HG22	1:F:76:ALA:N	2.25	0.52
1:H:690:LEU:C	5:S:21:PRO:HB2	2.29	0.52
1:H:361:GLN:CD	5:S:21:PRO:CG	2.77	0.52
1:K:17:GLN:NE2	4:P:179:ARG:HA	2.24	0.52
1:D:181:GLU:HB2	1:D:194:TYR:CZ	2.44	0.52
1:I:181:GLU:HB2	1:I:194:TYR:CZ	2.44	0.52
1:J:499:THR:O	1:J:503:MET:HG3	2.09	0.52
1:E:327:ALA:HB2	1:E:546:SER:HA	1.92	0.52
1:E:889:GLN:O	1:E:889:GLN:HG2	2.09	0.52
1:L:514:ASP:O	1:L:517:ILE:HG22	2.10	0.52
1:B:889:GLN:OE1	1:C:50:ALA:O	2.27	0.52
1:D:938:VAL:O	1:E:12:MET:HE1	2.10	0.52
1:B:514:ASP:O	1:B:517:ILE:HG22	2.10	0.52
1:A:13:HIS:O	1:A:47:PRO:HB3	2.09	0.52
1:A:89:ASP:N	1:E:353:GLN:HB3	2.25	0.52
4:P:44:VAL:HG11	4:P:48:ARG:NH1	2.25	0.52
1:K:891:LEU:HB3	4:O:189:ILE:HG22	1.91	0.52
1:K:891:LEU:CD2	3:N:294:GLU:OE1	2.57	0.52
1:C:893:TYR:CZ	1:E:950:THR:CB	2.93	0.52
1:L:748:VAL:CA	1:L:751:GLU:HG3	2.39	0.52
1:I:248:ILE:C	1:I:249:LEU:HG	2.29	0.52
1:F:60:SER:HB2	1:J:734:ASP:N	2.25	0.52
1:J:948:ASN:O	1:J:949:ALA:HB3	2.10	0.52
1:H:65:LEU:CB	1:J:353:GLN:HE22	2.20	0.52
1:F:341:THR:O	1:G:692:SER:HB2	2.08	0.52
1:B:667:PRO:CD	2:M:101:TYR:CE1	2.93	0.52
4:P:90:VAL:HG12	4:P:91:LEU:N	2.24	0.52
1:J:463:LEU:CD2	1:L:463:LEU:CD1	2.82	0.52
1:A:427:LYS:HG2	1:A:445:PHE:CD2	2.39	0.52
1:B:134:TRP:O	1:B:165:THR:HA	2.10	0.52
1:F:186:GLY:C	1:F:187:VAL:HG13	2.29	0.52
1:L:186:GLY:C	1:L:187:VAL:HG13	2.29	0.52
1:A:283:VAL:HG21	1:B:453:VAL:CG2	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:207:GLU:HG3	1:K:215:ILE:HD11	1.92	0.52
1:G:181:GLU:HB2	1:G:194:TYR:CZ	2.44	0.52
1:B:75:THR:HG22	1:B:76:ALA:N	2.24	0.52
1:L:207:GLU:HG3	1:L:215:ILE:HD11	1.91	0.52
5:T:39:VAL:HG12	5:T:40:LEU:H	1.74	0.52
1:L:499:THR:O	1:L:503:MET:HG3	2.09	0.52
1:J:514:ASP:O	1:J:517:ILE:HG22	2.10	0.52
1:A:514:ASP:O	1:A:517:ILE:HG22	2.10	0.52
1:A:211:TYR:CE1	1:C:311:ARG:NH1	2.78	0.52
1:G:948:ASN:OD1	4:P:32:ASN:CA	2.57	0.52
1:H:4:SER:H	4:P:54:ILE:HG13	1.75	0.52
1:B:248:ILE:C	1:B:249:LEU:HG	2.29	0.52
1:A:248:ILE:C	1:A:249:LEU:HG	2.29	0.52
1:J:257:LEU:HD22	1:J:259:SER:HA	1.88	0.52
1:G:13:HIS:O	1:G:47:PRO:HB3	2.09	0.52
1:K:638:ASN:OD1	1:L:27:LEU:HD23	2.10	0.52
1:J:463:LEU:CD1	1:K:463:LEU:CD2	2.85	0.52
1:H:444:GLU:CB	1:H:445:PHE:C	2.70	0.52
1:A:134:TRP:O	1:A:165:THR:HA	2.10	0.52
1:J:427:LYS:HG2	1:J:445:PHE:CD2	2.39	0.52
1:D:134:TRP:O	1:D:165:THR:HA	2.10	0.52
1:E:184:GLN:NE2	1:E:187:VAL:HG13	2.25	0.52
1:E:186:GLY:C	1:E:187:VAL:HG13	2.29	0.52
1:A:184:GLN:HE21	1:A:187:VAL:HG13	1.75	0.52
1:F:184:GLN:NE2	1:F:187:VAL:HG13	2.25	0.52
1:E:419:VAL:HG21	1:E:452:ARG:HG2	1.92	0.52
4:O:90:VAL:HG12	4:O:91:LEU:N	2.24	0.52
1:K:181:GLU:HB2	1:K:194:TYR:CZ	2.44	0.52
1:K:174:SER:HB2	1:K:215:ILE:CD1	2.38	0.52
1:H:499:THR:O	1:H:503:MET:HG3	2.09	0.52
1:J:522:ARG:HB2	1:K:547:MET:SD	2.50	0.52
1:K:514:ASP:O	1:K:517:ILE:HG22	2.10	0.52
1:G:678:ALA:HB3	1:G:918:LEU:HB2	1.90	0.52
1:A:889:GLN:O	1:A:889:GLN:HG2	2.09	0.52
1:F:514:ASP:O	1:F:517:ILE:HG22	2.10	0.52
1:L:8:GLN:CD	4:O:31:ILE:HD11	2.27	0.52
1:D:11:TYR:CD2	4:P:34:MET:SD	3.03	0.52
1:K:890:ASN:O	1:K:891:LEU:C	2.47	0.52
1:K:677:TRP:HE1	1:K:900:LEU:HD21	1.74	0.52
1:E:949:ALA:CB	1:E:950:THR:CB	2.30	0.52
1:G:936:GLU:OE2	4:P:37:GLY:CA	2.55	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:925:VAL:HG22	1:K:939:TYR:CD1	2.45	0.52
1:C:947:GLY:O	1:K:344:MET:HE1	2.10	0.52
1:G:19:ALA:O	1:G:23:LEU:CG	2.58	0.52
1:L:13:HIS:O	1:L:47:PRO:HB3	2.09	0.52
1:E:264:GLN:O	1:E:266:PHE:CD1	2.63	0.52
2:M:48:PRO:CB	3:N:106:ASN:HB2	2.39	0.52
1:F:134:TRP:O	1:F:165:THR:HA	2.10	0.52
1:I:184:GLN:NE2	1:I:187:VAL:HG13	2.25	0.52
1:G:43:LYS:NZ	1:I:94:ASP:OD2	2.28	0.52
1:D:419:VAL:HG21	1:D:452:ARG:HG2	1.92	0.52
1:J:659:ALA:HB1	5:R:134:SER:HG	1.74	0.52
4:O:91:LEU:N	4:O:91:LEU:HD22	2.24	0.52
2:M:274:THR:HG22	2:M:275:TYR:N	2.22	0.52
4:P:6:PRO:HG3	4:P:198:PHE:HA	1.92	0.52
1:G:499:THR:O	1:G:503:MET:HG3	2.09	0.52
1:B:419:VAL:CG2	1:B:452:ARG:HG2	2.40	0.52
1:B:814:GLN:HG3	1:C:239:PRO:O	2.10	0.52
2:M:69:VAL:HG23	2:M:561:VAL:HB	1.92	0.52
1:G:897:ALA:O	1:G:898:HIS:CD2	2.63	0.52
1:H:13:HIS:O	1:H:47:PRO:HB3	2.09	0.52
1:G:178:ILE:CG2	1:G:281:PRO:CG	2.87	0.52
1:I:437:GLY:C	1:I:438:TRP:CD1	2.76	0.52
1:C:248:ILE:HG23	1:C:250:VAL:HG12	1.87	0.52
1:D:737:LEU:HA	1:E:62:ARG:CZ	2.39	0.52
1:B:940:LEU:HD22	1:C:8:GLN:HB3	1.91	0.52
1:H:777:TYR:CZ	1:I:63:LEU:HD21	2.45	0.52
1:K:165:THR:N	1:L:445:PHE:H	2.07	0.52
1:A:184:GLN:NE2	1:A:187:VAL:HG13	2.25	0.52
1:G:184:GLN:NE2	1:G:187:VAL:HG13	2.25	0.52
1:I:246:GLN:CG	1:I:290:VAL:CG1	2.85	0.52
1:D:520:GLY:HA3	1:E:114:PRO:CG	2.38	0.52
1:C:759:ASN:OD1	1:C:862:LYS:HA	2.10	0.52
3:N:229:THR:CG2	4:O:4:GLU:HG3	2.40	0.52
1:B:619:PHE:CE1	1:C:37:TYR:HB2	2.44	0.52
1:E:820:HIS:HB3	1:F:243:ASN:O	2.10	0.52
3:N:105:TYR:O	3:N:110:VAL:HG21	2.10	0.52
1:D:514:ASP:O	1:D:517:ILE:HG22	2.10	0.52
1:D:7:PRO:CG	4:P:41:ILE:HD13	2.39	0.52
1:F:667:PRO:CD	1:G:71:ASP:HB2	2.40	0.52
1:E:257:LEU:HB2	1:E:258:GLU:HA	1.79	0.52
1:G:279:LEU:O	1:G:280:THR:C	2.48	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:257:LEU:HD22	1:F:259:SER:HA	1.88	0.52
1:G:257:LEU:HD22	1:G:259:SER:HA	1.88	0.52
1:J:248:ILE:C	1:J:249:LEU:HG	2.29	0.52
1:F:629:LEU:HA	1:F:632:MET:SD	2.51	0.52
1:B:941:ARG:O	1:B:945:SER:HB3	2.10	0.52
1:C:19:ALA:O	1:C:23:LEU:CG	2.58	0.52
1:E:340:SER:O	1:E:341:THR:C	2.48	0.52
1:B:463:LEU:CD2	1:C:463:LEU:HD21	2.29	0.52
1:K:165:THR:HB	1:L:445:PHE:CD1	2.44	0.52
1:J:184:GLN:NE2	1:J:187:VAL:HG13	2.25	0.52
1:C:184:GLN:NE2	1:C:187:VAL:HG13	2.25	0.52
5:R:103:LEU:O	5:R:107:LEU:HD23	2.10	0.52
1:D:842:PRO:CG	1:E:246:GLN:HE22	2.23	0.52
1:G:94:ASP:CG	1:H:43:LYS:HZ1	2.12	0.52
1:E:95:MET:HG2	1:E:573:LEU:CD1	2.39	0.52
1:F:68:ILE:CD1	5:Q:98:ASP:OD1	2.58	0.52
1:K:419:VAL:CG2	1:K:452:ARG:HG2	2.40	0.52
1:I:419:VAL:CG2	1:I:452:ARG:HG2	2.39	0.52
1:B:207:GLU:HG3	1:B:215:ILE:HD11	1.92	0.52
1:J:75:THR:HG22	1:J:76:ALA:N	2.25	0.52
1:A:470:ASN:HD21	1:C:411:ASN:HD21	1.56	0.52
1:G:799:PRO:HG3	1:H:384:SER:CB	2.39	0.52
1:H:419:VAL:HG21	1:H:452:ARG:HG2	1.92	0.52
3:N:207:ASN:O	3:N:211:LEU:HB2	2.10	0.52
4:O:10:MET:O	4:O:23:ALA:HA	2.10	0.51
1:F:668:SER:CB	1:G:350:GLN:NE2	2.74	0.51
1:D:279:LEU:O	1:D:280:THR:C	2.49	0.51
1:G:27:LEU:CD2	1:I:633:LEU:HD23	2.40	0.51
1:J:22:TYR:HE1	1:J:23:LEU:CD2	2.14	0.51
1:C:349:GLY:O	1:C:352:SER:N	2.43	0.51
1:J:134:TRP:O	1:J:165:THR:HA	2.10	0.51
1:D:165:THR:O	1:E:445:PHE:CA	2.51	0.51
1:K:63:LEU:HD21	1:K:620:PRO:HD3	1.91	0.51
1:C:624:ASN:HA	4:O:222:SER:OG	2.09	0.51
1:I:186:GLY:C	1:I:187:VAL:HG13	2.29	0.51
1:F:68:ILE:HD12	5:Q:98:ASP:OD1	2.10	0.51
1:E:419:VAL:CG2	1:E:452:ARG:HG2	2.39	0.51
1:C:419:VAL:CG2	1:C:452:ARG:HG2	2.40	0.51
1:H:759:ASN:OD1	1:H:862:LYS:HA	2.10	0.51
1:H:752:GLY:O	1:I:558:HIS:CE1	2.62	0.51
1:K:519:LEU:CD1	1:L:119:ALA:HB2	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:181:GLU:HB2	1:L:194:TYR:CZ	2.44	0.51
1:D:301:TYR:OH	1:E:208:SER:CB	2.57	0.51
1:L:75:THR:HG22	1:L:76:ALA:N	2.25	0.51
1:G:519:LEU:HD13	1:H:115:TYR:CE1	2.46	0.51
1:K:279:LEU:O	1:K:280:THR:C	2.48	0.51
1:D:499:THR:O	1:D:503:MET:HG3	2.09	0.51
1:I:889:GLN:HG2	1:I:889:GLN:O	2.09	0.51
1:G:896:SER:O	1:G:898:HIS:HE1	1.91	0.51
1:H:19:ALA:O	1:H:23:LEU:CG	2.58	0.51
1:H:8:GLN:HG3	4:P:31:ILE:HG13	1.91	0.51
1:C:893:TYR:CE1	1:E:950:THR:CB	2.93	0.51
1:G:178:ILE:CG2	1:G:281:PRO:HG2	2.40	0.51
1:F:19:ALA:O	1:F:23:LEU:CG	2.58	0.51
1:F:13:HIS:O	1:F:47:PRO:HB3	2.09	0.51
1:L:19:ALA:O	1:L:23:LEU:CG	2.58	0.51
1:G:463:LEU:CD1	1:H:463:LEU:HD23	2.18	0.51
1:C:134:TRP:O	1:C:165:THR:HA	2.10	0.51
1:L:134:TRP:O	1:L:165:THR:HA	2.10	0.51
1:D:925:VAL:HG22	1:D:939:TYR:CD1	2.45	0.51
1:A:777:TYR:CZ	1:B:63:LEU:HD21	2.46	0.51
1:I:773:TYR:O	1:I:774:ASN:HB2	2.11	0.51
1:E:773:TYR:O	1:E:774:ASN:HB2	2.11	0.51
1:J:759:ASN:OD1	1:J:862:LYS:HA	2.10	0.51
1:E:737:LEU:C	1:F:62:ARG:HH21	2.13	0.51
1:D:419:VAL:CG2	1:D:452:ARG:HG2	2.40	0.51
1:A:733:ASN:HB3	1:B:60:SER:HA	1.92	0.51
1:B:570:ASN:HB3	1:C:42:ASN:ND2	2.25	0.51
1:B:279:LEU:O	1:B:280:THR:C	2.49	0.51
1:G:301:TYR:OH	1:H:208:SER:CB	2.58	0.51
1:K:499:THR:O	1:K:503:MET:HG3	2.09	0.51
1:C:499:THR:O	1:C:503:MET:HG3	2.09	0.51
1:E:499:THR:O	1:E:503:MET:HG3	2.09	0.51
1:I:499:THR:O	1:I:503:MET:HG3	2.09	0.51
1:H:419:VAL:CG2	1:H:452:ARG:HG2	2.39	0.51
2:M:57:TYR:OH	2:M:96:ILE:HG22	2.10	0.51
1:H:168:PHE:HA	1:I:450:GLU:O	2.11	0.51
1:B:407:ASP:O	1:C:126:LYS:HE2	2.11	0.51
2:M:441:LEU:HB2	2:M:445:MET:HG2	1.92	0.51
5:T:118:SER:O	5:T:122:LEU:HG	2.09	0.51
1:I:514:ASP:O	1:I:517:ILE:HG22	2.10	0.51
1:A:19:ALA:O	1:A:23:LEU:CG	2.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:940:LEU:HD22	4:O:31:ILE:HG12	1.92	0.51
1:G:341:THR:O	1:G:344:MET:HG3	2.10	0.51
1:G:942:THR:HG22	4:P:29:THR:CA	2.38	0.51
4:P:210:ASP:O	4:P:213:ILE:HG13	2.11	0.51
3:N:294:GLU:CB	4:O:58:GLN:HE21	2.23	0.51
1:K:938:VAL:O	1:L:12:MET:HE1	2.10	0.51
1:H:428:VAL:HG11	1:H:438:TRP:CE3	2.44	0.51
1:H:178:ILE:CG2	1:H:281:PRO:HG2	2.40	0.51
1:F:60:SER:H	1:J:733:ASN:HA	1.75	0.51
1:K:4:SER:HB2	1:K:11:TYR:CE1	2.45	0.51
1:E:19:ALA:O	1:E:23:LEU:CG	2.58	0.51
1:I:13:HIS:O	1:I:47:PRO:HB3	2.09	0.51
1:H:184:GLN:NE2	1:H:187:VAL:HG13	2.25	0.51
1:H:773:TYR:O	1:H:774:ASN:HB2	2.11	0.51
1:J:419:VAL:CG2	1:J:452:ARG:HG2	2.40	0.51
1:D:752:GLY:O	1:E:558:HIS:HE1	1.93	0.51
1:E:759:ASN:OD1	1:E:862:LYS:HA	2.11	0.51
1:K:734:ASP:O	1:L:62:ARG:CG	2.57	0.51
1:B:301:TYR:OH	1:C:208:SER:CB	2.58	0.51
1:D:207:GLU:HG3	1:D:215:ILE:HD11	1.92	0.51
1:D:75:THR:HG22	1:D:76:ALA:N	2.25	0.51
1:D:121:ASN:OD1	1:F:824:ASN:N	2.27	0.51
1:H:279:LEU:O	1:H:280:THR:C	2.48	0.51
1:H:514:ASP:O	1:H:517:ILE:HG22	2.10	0.51
1:C:514:ASP:O	1:C:517:ILE:HG22	2.10	0.51
3:N:194:GLN:HA	4:O:207:HIS:C	2.30	0.51
3:N:290:THR:HA	3:N:293:LEU:HD12	1.91	0.51
1:C:724:PHE:HB2	1:C:728:VAL:HG22	1.93	0.51
1:C:892:LEU:CD2	1:E:949:ALA:O	2.57	0.51
1:H:430:PRO:O	1:H:431:LYS:HB2	2.10	0.51
1:B:924:VAL:CG2	1:C:14:ILE:CD1	2.66	0.51
1:K:638:ASN:ND2	1:L:24:SER:OG	2.43	0.51
1:A:237:ALA:CB	1:A:246:GLN:OE1	2.41	0.51
1:C:91:ARG:NH1	4:O:226:TYR:HD1	2.09	0.51
1:A:264:GLN:O	1:A:266:PHE:CD1	2.62	0.51
1:K:134:TRP:O	1:K:165:THR:HA	2.10	0.51
1:D:445:PHE:H	1:F:165:THR:HB	1.76	0.51
1:A:295:PRO:CB	1:C:853:THR:HG21	2.22	0.51
1:E:924:VAL:CG2	1:F:14:ILE:CD1	2.69	0.51
1:B:184:GLN:NE2	1:B:187:VAL:HG13	2.25	0.51
1:F:184:GLN:HE21	1:F:187:VAL:HG13	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:62:ARG:HA	1:I:735:ARG:HA	1.92	0.51
1:L:246:GLN:CG	1:L:290:VAL:CG1	2.85	0.51
1:E:181:GLU:HB2	1:E:194:TYR:CZ	2.44	0.51
1:J:207:GLU:HG3	1:J:215:ILE:HD11	1.92	0.51
1:F:207:GLU:HG3	1:F:215:ILE:HD11	1.91	0.51
1:H:327:ALA:HB2	1:H:546:SER:HA	1.92	0.51
1:A:677:TRP:NE1	1:A:902:MET:HE2	2.25	0.51
3:N:126:ALA:O	3:N:130:ARG:CG	2.59	0.51
1:L:327:ALA:HB2	1:L:546:SER:HA	1.92	0.51
4:P:83:SER:N	4:P:84:PRO:HD3	2.25	0.51
1:J:728:VAL:CG1	4:P:226:TYR:CE1	2.67	0.51
1:G:669:ARG:HA	4:P:10:MET:HE2	1.92	0.51
1:G:926:ARG:NH1	4:P:43:ARG:NH2	2.59	0.51
1:D:257:LEU:HD22	1:D:259:SER:HA	1.88	0.51
1:J:891:LEU:C	1:J:895:ASN:OD1	2.48	0.51
1:J:762:LYS:NZ	1:K:101:ASP:OD2	2.40	0.51
3:N:27:TRP:CZ3	3:N:31:MET:CB	2.90	0.51
2:M:39:PRO:O	3:N:63:PRO:HG2	2.11	0.51
1:F:341:THR:HG21	1:G:343:ASN:HD21	1.76	0.51
5:Q:96:ARG:CZ	5:R:136:PRO:CG	2.88	0.51
1:C:773:TYR:O	1:C:774:ASN:HB2	2.11	0.51
1:H:246:GLN:CG	1:H:290:VAL:CG1	2.85	0.51
1:J:773:TYR:O	1:J:774:ASN:HB2	2.11	0.51
1:C:75:THR:HG22	1:C:76:ALA:N	2.24	0.51
1:F:419:VAL:HG21	1:F:452:ARG:HG2	1.92	0.51
1:K:759:ASN:OD1	1:K:862:LYS:HA	2.10	0.51
1:C:667:PRO:HG2	1:K:82:ARG:HH11	1.76	0.51
1:B:181:GLU:HB2	1:B:194:TYR:CZ	2.44	0.51
1:D:301:TYR:OH	1:E:208:SER:HB3	2.11	0.51
1:G:207:GLU:HG3	1:G:215:ILE:HD11	1.91	0.51
1:D:34:THR:C	1:D:36:THR:N	2.64	0.51
1:D:202:GLU:OE1	1:F:820:HIS:CD2	2.62	0.51
2:M:95:VAL:O	2:M:95:VAL:HG12	2.10	0.51
1:D:327:ALA:HB2	1:D:546:SER:HA	1.92	0.51
1:K:522:ARG:HB2	1:L:547:MET:SD	2.51	0.51
1:F:928:HIS:CE1	4:P:30:ARG:NH2	2.78	0.51
1:C:728:VAL:HG11	1:E:948:ASN:HB2	1.93	0.51
1:E:279:LEU:O	1:E:280:THR:C	2.48	0.51
1:L:178:ILE:CG2	1:L:281:PRO:CG	2.89	0.51
1:G:430:PRO:CG	1:I:180:LYS:HE2	2.28	0.51
1:G:937:THR:C	4:P:40:MET:CE	2.78	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:430:PRO:O	1:K:431:LYS:HB2	2.11	0.51
1:H:178:ILE:CG2	1:H:281:PRO:CG	2.89	0.51
1:D:22:TYR:HE1	1:D:23:LEU:CD2	2.14	0.51
1:E:22:TYR:HE1	1:E:23:LEU:CD2	2.14	0.51
3:N:272:GLU:O	3:N:276:GLN:HG3	2.10	0.51
1:C:427:LYS:HG2	1:C:445:PHE:HD2	1.67	0.51
1:I:218:ALA:O	1:I:283:VAL:HA	2.10	0.51
1:H:737:LEU:HA	1:I:62:ARG:CZ	2.40	0.51
1:D:362:ASP:CB	1:D:941:ARG:HH22	2.17	0.51
1:G:419:VAL:HG21	1:G:452:ARG:HG2	1.92	0.51
1:G:425:LEU:HB3	1:I:267:SER:O	2.11	0.51
1:B:304:THR:HG22	1:B:306:LYS:N	2.23	0.51
1:I:75:THR:HG22	1:I:76:ALA:N	2.24	0.51
1:E:820:HIS:CD2	1:F:202:GLU:OE1	2.62	0.51
1:E:514:ASP:O	1:E:517:ILE:HG22	2.10	0.51
1:J:898:HIS:CD2	4:P:226:TYR:HE2	2.28	0.51
1:F:672:ALA:O	1:F:673:ALA:HB3	2.11	0.51
1:E:948:ASN:OD1	1:E:949:ALA:HA	2.10	0.51
1:L:719:LYS:HZ2	5:Q:22:TRP:CB	2.23	0.51
1:L:759:ASN:OD1	1:L:862:LYS:HA	2.10	0.51
1:I:257:LEU:HD22	1:I:259:SER:HA	1.88	0.51
1:K:9:TRP:CZ3	4:P:17:MET:HG3	2.45	0.51
1:G:733:ASN:CB	1:H:60:SER:HA	2.40	0.51
1:K:248:ILE:HG23	1:K:250:VAL:HG12	1.87	0.51
1:D:27:LEU:CG	1:F:632:MET:CE	2.88	0.51
1:I:19:ALA:O	1:I:23:LEU:CG	2.58	0.51
1:D:184:GLN:NE2	1:D:187:VAL:HG13	2.25	0.51
1:C:246:GLN:CG	1:C:290:VAL:HG11	2.41	0.51
1:E:737:LEU:HB2	1:E:753:TYR:HE2	1.73	0.51
1:D:170:GLN:OE1	1:F:839:GLN:HA	2.11	0.51
1:A:752:GLY:O	1:B:558:HIS:CE1	2.63	0.51
4:O:90:VAL:C	4:O:92:PRO:HD3	2.31	0.51
2:M:275:TYR:CE1	2:M:404:ARG:HD3	2.46	0.51
1:J:181:GLU:HB2	1:J:194:TYR:CZ	2.44	0.51
1:H:207:GLU:HG3	1:H:215:ILE:HD11	1.92	0.51
1:A:207:GLU:HG3	1:A:215:ILE:HD11	1.91	0.51
1:A:279:LEU:O	1:A:280:THR:C	2.49	0.51
1:K:664:ILE:HG13	1:K:664:ILE:O	2.10	0.51
1:A:327:ALA:HB2	1:A:546:SER:HA	1.92	0.51
1:H:788:ASP:OD2	1:I:381:ARG:NH2	2.33	0.51
1:E:842:PRO:HB3	1:F:235:SER:HB3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:814:GLN:HG3	1:B:239:PRO:O	2.11	0.51
1:L:8:GLN:CG	4:O:31:ILE:CD1	2.87	0.51
1:F:341:THR:O	1:G:692:SER:CB	2.58	0.51
1:C:738:THR:C	1:C:740:ASN:H	2.13	0.51
1:I:719:LYS:CD	5:T:22:TRP:CG	2.93	0.51
1:J:19:ALA:O	1:J:23:LEU:CG	2.58	0.51
1:L:890:ASN:HD22	1:L:892:LEU:N	2.02	0.51
1:B:463:LEU:CD1	1:C:463:LEU:CD2	2.82	0.51
1:B:891:LEU:HB3	3:N:93:LEU:HG	1.92	0.51
1:J:63:LEU:HD21	1:L:777:TYR:CZ	2.46	0.51
2:M:79:VAL:O	2:M:80:ALA:C	2.48	0.51
1:G:842:PRO:HB3	1:H:235:SER:HB3	1.92	0.51
1:G:246:GLN:CG	1:G:290:VAL:HG11	2.41	0.51
1:C:279:LEU:O	1:C:280:THR:C	2.49	0.51
1:H:914:LEU:HD21	5:S:19:MET:HE1	1.91	0.51
1:D:673:ALA:HB2	1:E:9:TRP:HZ2	1.74	0.51
1:H:75:THR:HG22	1:H:76:ALA:N	2.24	0.51
1:A:945:SER:O	1:A:946:ALA:C	2.48	0.51
4:O:97:ALA:HB1	4:O:162:PHE:HB3	1.93	0.51
2:M:212:THR:HG22	2:M:238:PRO:HG3	1.93	0.51
1:K:387:ASN:ND2	1:K:545:ARG:HG2	2.26	0.51
1:C:327:ALA:HB2	1:C:546:SER:HA	1.92	0.51
1:A:8:GLN:HE22	4:O:34:MET:HB3	1.74	0.51
1:L:8:GLN:OE1	4:O:31:ILE:CD1	2.57	0.51
1:D:278:ASN:C	1:D:280:THR:N	2.64	0.51
1:D:719:LYS:CD	5:R:22:TRP:CG	2.93	0.51
1:H:134:TRP:O	1:H:165:THR:HA	2.10	0.51
1:I:134:TRP:O	1:I:165:THR:HA	2.10	0.51
1:E:924:VAL:HG21	1:F:14:ILE:HD13	1.86	0.51
1:B:268:THR:O	1:B:268:THR:CG2	2.59	0.51
1:B:412:TYR:HH	1:C:835:MET:HA	1.73	0.51
1:H:246:GLN:CG	1:H:290:VAL:HG11	2.41	0.51
1:L:246:GLN:CG	1:L:290:VAL:HG11	2.41	0.51
1:L:419:VAL:HG21	1:L:452:ARG:HG2	1.92	0.51
1:K:75:THR:HG22	1:K:76:ALA:N	2.25	0.51
1:L:34:THR:C	1:L:36:THR:N	2.64	0.51
1:K:34:THR:HG22	1:K:37:TYR:CE1	2.46	0.51
1:B:278:ASN:C	1:B:280:THR:N	2.64	0.51
1:J:728:VAL:CB	4:P:226:TYR:CB	2.66	0.51
4:O:208:TYR:CB	4:O:209:PRO:CD	2.83	0.51
1:D:183:ILE:CG2	1:D:284:VAL:HB	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:279:LEU:O	1:F:280:THR:C	2.49	0.51
1:F:22:TYR:HE1	1:F:23:LEU:HD21	1.66	0.51
1:C:738:THR:C	1:C:740:ASN:N	2.63	0.51
1:E:134:TRP:O	1:E:165:THR:HA	2.10	0.51
1:J:445:PHE:CE1	1:L:165:THR:HG21	2.46	0.51
5:Q:54:GLY:C	5:Q:56:PRO:CD	2.79	0.51
1:L:184:GLN:NE2	1:L:187:VAL:HG13	2.25	0.51
1:D:268:THR:CG2	1:D:268:THR:O	2.59	0.51
1:I:184:GLN:HE21	1:I:187:VAL:HG13	1.75	0.51
1:I:246:GLN:CG	1:I:290:VAL:HG11	2.41	0.51
1:D:246:GLN:CG	1:D:290:VAL:HG11	2.41	0.51
1:D:115:TYR:CE1	1:F:519:LEU:HD13	2.46	0.51
1:H:181:GLU:HB2	1:H:194:TYR:CZ	2.44	0.51
1:H:34:THR:HG22	1:H:37:TYR:CE1	2.46	0.51
1:I:34:THR:HG22	1:I:37:TYR:CE1	2.46	0.51
1:A:34:THR:HG22	1:A:37:TYR:CE1	2.46	0.51
1:D:34:THR:HG22	1:D:37:TYR:CE1	2.46	0.51
1:E:75:THR:HG22	1:E:76:ALA:N	2.25	0.51
1:I:207:GLU:HG3	1:I:215:ILE:HD11	1.92	0.51
1:G:758:CYS:HA	1:G:861:LYS:HG2	1.93	0.51
1:J:327:ALA:HB2	1:J:546:SER:HA	1.92	0.51
1:F:327:ALA:HB2	1:F:546:SER:HA	1.92	0.51
2:M:466:GLU:HG2	2:M:467:LEU:N	2.25	0.51
1:C:727:SER:CB	1:E:944:PHE:HB3	2.39	0.50
1:L:279:LEU:O	1:L:280:THR:C	2.49	0.50
1:F:342:GLY:O	1:G:692:SER:HB2	2.10	0.50
4:P:90:VAL:C	4:P:92:PRO:HD3	2.31	0.50
1:D:853:THR:HG21	1:E:295:PRO:CB	2.24	0.50
1:H:184:GLN:HE21	1:H:187:VAL:HG13	1.75	0.50
1:J:419:VAL:HG21	1:J:452:ARG:HG2	1.92	0.50
1:A:752:GLY:CA	1:B:103:ARG:HD2	2.38	0.50
1:F:637:THR:HG21	4:P:200:PRO:CG	2.41	0.50
1:G:619:PHE:CE1	1:H:37:TYR:HB2	2.46	0.50
1:C:34:THR:HG22	1:C:37:TYR:CE1	2.46	0.50
1:H:278:ASN:C	1:H:280:THR:N	2.65	0.50
1:B:499:THR:O	1:B:503:MET:HG3	2.09	0.50
1:A:387:ASN:ND2	1:A:545:ARG:HG2	2.26	0.50
4:P:59:ALA:HB2	4:P:193:VAL:HB	1.93	0.50
5:Q:84:PRO:C	5:Q:86:ALA:N	2.65	0.50
1:K:897:ALA:N	4:O:10:MET:HE2	2.24	0.50
4:O:52:ASN:HB3	4:O:196:VAL:HG11	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:89:ASP:N	1:E:353:GLN:CB	2.74	0.50
4:P:10:MET:O	4:P:23:ALA:HA	2.11	0.50
1:G:669:ARG:HD3	4:P:28:SER:HB3	1.93	0.50
1:K:874:PHE:HZ	1:K:893:TYR:OH	1.83	0.50
1:L:719:LYS:HG3	5:Q:22:TRP:CH2	2.47	0.50
1:K:936:GLU:CD	4:O:37:GLY:HA3	2.30	0.50
1:G:248:ILE:HD11	1:G:289:ASP:HB2	1.93	0.50
1:C:358:VAL:HG13	1:K:341:THR:OG1	2.11	0.50
1:K:68:ILE:CG2	1:K:69:PRO:N	2.73	0.50
1:G:737:LEU:HB2	1:G:753:TYR:HE2	1.73	0.50
1:L:737:LEU:HB2	1:L:753:TYR:HE2	1.73	0.50
1:F:341:THR:CB	1:G:693:GLY:N	2.34	0.50
1:B:362:ASP:CB	2:M:108:THR:HG22	2.41	0.50
1:G:27:LEU:HD21	1:I:633:LEU:HD23	1.92	0.50
4:O:13:TYR:HB2	4:O:188:PHE:CE2	2.47	0.50
1:I:759:ASN:OD1	1:I:862:LYS:HA	2.10	0.50
1:K:184:GLN:HE21	1:K:187:VAL:HG13	1.75	0.50
1:D:218:ALA:O	1:D:283:VAL:HA	2.10	0.50
1:J:267:SER:O	1:K:425:LEU:HB3	2.10	0.50
1:D:773:TYR:O	1:D:774:ASN:HB2	2.10	0.50
1:A:734:ASP:O	1:B:62:ARG:HA	2.10	0.50
1:F:759:ASN:OD1	1:F:862:LYS:HA	2.11	0.50
1:F:34:THR:C	1:F:36:THR:N	2.64	0.50
1:I:17:GLN:HB3	1:I:21:GLU:HB2	1.94	0.50
4:O:59:ALA:HB2	4:O:193:VAL:HB	1.93	0.50
1:B:327:ALA:HB2	1:B:546:SER:HA	1.92	0.50
1:H:814:GLN:HG3	1:I:239:PRO:O	2.12	0.50
1:D:677:TRP:NE1	1:D:902:MET:HE2	2.25	0.50
1:K:945:SER:HB2	4:O:30:ARG:O	2.10	0.50
3:N:196:LEU:HD12	3:N:196:LEU:O	2.10	0.50
1:G:936:GLU:CD	4:P:37:GLY:CA	2.71	0.50
1:J:240:THR:CG2	1:J:249:LEU:HD11	2.41	0.50
1:H:65:LEU:HD13	1:J:353:GLN:CD	2.32	0.50
1:G:27:LEU:HD21	1:I:633:LEU:HD21	1.92	0.50
1:C:355:ASN:ND2	1:C:357:VAL:H	2.09	0.50
1:E:858:ILE:HD13	5:Q:112:ARG:NH2	2.18	0.50
1:D:264:GLN:NE2	1:E:445:PHE:HZ	2.09	0.50
1:G:295:PRO:HB3	1:I:853:THR:CB	2.41	0.50
1:A:218:ALA:O	1:A:283:VAL:HA	2.10	0.50
1:D:246:GLN:CG	1:D:290:VAL:CG1	2.85	0.50
1:E:246:GLN:CG	1:E:290:VAL:HG11	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:87:VAL:O	1:E:87:VAL:HG12	2.12	0.50
1:K:929:ARG:NH1	1:K:929:ARG:CG	2.74	0.50
1:A:762:LYS:HE2	1:B:615:TYR:CD2	2.47	0.50
1:B:87:VAL:O	1:B:87:VAL:HG12	2.12	0.50
1:G:438:TRP:N	1:G:438:TRP:CD1	2.78	0.50
1:G:311:ARG:HH12	1:H:211:TYR:HE1	1.59	0.50
1:I:34:THR:C	1:I:36:THR:N	2.64	0.50
1:L:34:THR:HG22	1:L:37:TYR:CE1	2.46	0.50
1:F:34:THR:HG22	1:F:37:TYR:CE1	2.46	0.50
1:G:34:THR:HG22	1:G:37:TYR:CE1	2.46	0.50
1:J:34:THR:HG22	1:J:37:TYR:CE1	2.46	0.50
5:T:30:MET:O	5:T:39:VAL:HB	2.12	0.50
1:B:419:VAL:HG21	1:B:452:ARG:HG2	1.92	0.50
3:N:38:THR:O	3:N:39:ALA:HB3	2.10	0.50
1:C:17:GLN:HB3	1:C:21:GLU:HB2	1.94	0.50
1:G:239:PRO:O	1:I:814:GLN:HG3	2.12	0.50
1:E:17:GLN:HB3	1:E:21:GLU:HB2	1.94	0.50
4:O:83:SER:N	4:O:84:PRO:HD3	2.25	0.50
1:C:387:ASN:ND2	1:C:545:ARG:HG2	2.26	0.50
1:J:404:GLY:HA3	1:K:116:SER:O	2.10	0.50
1:J:407:ASP:O	1:K:126:LYS:HE2	2.12	0.50
1:F:608:LYS:CD	5:T:98:ASP:C	2.72	0.50
1:G:633:LEU:HD23	1:H:27:LEU:CD2	2.42	0.50
1:G:884:LEU:HD21	1:H:14:ILE:HG22	1.94	0.50
4:P:210:ASP:C	4:P:212:PHE:N	2.63	0.50
1:C:892:LEU:HB3	1:E:949:ALA:C	2.31	0.50
1:L:759:ASN:HB3	5:Q:50:GLU:HB3	1.93	0.50
1:H:248:ILE:HD11	1:H:289:ASP:HB2	1.94	0.50
1:K:358:VAL:HG22	4:O:35:SER:OG	2.12	0.50
1:H:285:LEU:CD1	1:I:451:ILE:HD13	2.40	0.50
1:C:264:GLN:O	1:C:266:PHE:CD1	2.64	0.50
1:D:748:VAL:C	1:D:750:GLY:N	2.63	0.50
1:A:874:PHE:CZ	1:A:893:TYR:OH	2.65	0.50
1:J:279:LEU:O	1:J:280:THR:C	2.49	0.50
1:L:922:PHE:O	1:L:941:ARG:HA	2.12	0.50
1:B:759:ASN:OD1	1:B:862:LYS:HA	2.11	0.50
1:D:759:ASN:OD1	1:D:862:LYS:HA	2.10	0.50
1:L:304:THR:HG22	1:L:306:LYS:N	2.23	0.50
1:A:301:TYR:OH	1:B:208:SER:HB3	2.09	0.50
5:Q:78:ASP:O	5:Q:80:ALA:N	2.38	0.50
1:J:387:ASN:ND2	1:J:545:ARG:HG2	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:P:97:ALA:HB1	4:P:162:PHE:HB3	1.93	0.50
1:D:387:ASN:ND2	1:D:545:ARG:HG2	2.26	0.50
1:B:17:GLN:HB3	1:B:21:GLU:HB2	1.93	0.50
3:N:244:ASP:OD2	3:N:262:ARG:NH1	2.44	0.50
3:N:198:THR:CB	4:O:199:ASN:CG	2.72	0.50
1:K:893:TYR:O	1:K:895:ASN:N	2.45	0.50
1:E:247:GLY:O	1:E:248:ILE:CB	2.60	0.50
1:C:3:PRO:HD3	2:M:115:ASP:HB3	1.94	0.50
1:A:248:ILE:HD11	1:A:289:ASP:HB2	1.93	0.50
1:B:430:PRO:N	1:B:438:TRP:HD1	2.09	0.50
1:F:248:ILE:HD11	1:F:289:ASP:HB2	1.93	0.50
1:L:247:GLY:O	1:L:248:ILE:CB	2.60	0.50
1:C:87:VAL:O	1:C:88:GLY:O	2.30	0.50
1:B:218:ALA:O	1:B:283:VAL:HA	2.12	0.50
1:A:842:PRO:HB3	1:B:235:SER:HB3	1.93	0.50
1:E:87:VAL:O	1:E:88:GLY:O	2.30	0.50
1:G:777:TYR:OH	1:H:63:LEU:HD21	2.12	0.50
1:D:758:CYS:HA	1:D:861:LYS:HG2	1.93	0.50
1:D:861:LYS:HE2	5:R:50:GLU:CD	2.31	0.50
1:B:34:THR:HG22	1:B:37:TYR:CE1	2.46	0.50
1:A:419:VAL:HG21	1:A:452:ARG:HG2	1.92	0.50
1:F:569:LYS:HG2	1:F:570:ASN:ND2	2.27	0.50
1:G:547:MET:SD	1:I:522:ARG:HB2	2.52	0.50
1:K:327:ALA:HB2	1:K:546:SER:HA	1.92	0.50
1:H:387:ASN:ND2	1:H:545:ARG:HG2	2.26	0.50
1:B:456:ASN:O	1:C:836:ARG:NH1	2.44	0.50
1:I:387:ASN:ND2	1:I:545:ARG:HG2	2.26	0.50
1:K:945:SER:HB3	4:O:29:THR:CA	2.42	0.50
1:H:24:SER:OG	1:H:27:LEU:CB	2.60	0.50
1:H:5:MET:SD	1:H:8:GLN:NE2	2.85	0.50
1:J:248:ILE:HG23	1:J:250:VAL:HG12	1.87	0.50
1:J:70:VAL:HG12	1:J:82:ARG:O	2.11	0.50
1:G:695:ASP:HB3	1:G:698:TYR:HB2	1.92	0.50
1:B:24:SER:OG	1:B:27:LEU:CB	2.60	0.50
1:A:63:LEU:HD21	1:C:777:TYR:CZ	2.46	0.50
5:S:30:MET:O	5:S:39:VAL:HB	2.12	0.50
3:N:279:THR:CB	4:O:80:TYR:HH	2.23	0.50
1:I:737:LEU:HB2	1:I:753:TYR:HE2	1.73	0.50
1:K:773:TYR:O	1:K:774:ASN:HB2	2.11	0.50
1:H:842:PRO:HB3	1:I:235:SER:HB3	1.92	0.50
1:G:87:VAL:O	1:G:87:VAL:HG12	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:87:VAL:O	1:G:88:GLY:O	2.30	0.50
1:A:922:PHE:O	1:A:941:ARG:HA	2.12	0.50
1:G:759:ASN:OD1	1:G:862:LYS:HA	2.10	0.50
1:A:759:ASN:OD1	1:A:862:LYS:HA	2.10	0.50
1:B:301:TYR:OH	1:C:208:SER:HB3	2.11	0.50
1:K:456:ASN:O	1:L:836:ARG:NH1	2.44	0.50
1:F:387:ASN:ND2	1:F:545:ARG:HG2	2.26	0.50
4:P:13:TYR:HB2	4:P:188:PHE:CE2	2.46	0.50
1:L:903:THR:HG21	5:Q:20:PRO:HG3	1.94	0.50
1:G:430:PRO:O	1:G:431:LYS:HB2	2.11	0.50
1:B:428:VAL:CG1	1:B:438:TRP:HB3	2.41	0.50
1:C:247:GLY:O	1:C:248:ILE:CB	2.60	0.50
1:F:278:ASN:C	1:F:280:THR:N	2.65	0.50
3:N:24:THR:HG23	3:N:30:VAL:HG11	1.93	0.50
1:F:629:LEU:O	1:F:632:MET:HG2	2.10	0.50
2:M:106:ALA:HA	2:M:109:GLN:HG3	1.92	0.50
1:I:24:SER:OG	1:I:27:LEU:CB	2.60	0.50
1:H:684:THR:HG21	5:S:26:ARG:HB2	1.92	0.50
1:C:348:ALA:HB1	1:C:354:LEU:O	2.11	0.50
1:E:264:GLN:NE2	1:F:445:PHE:HZ	2.09	0.50
1:C:930:PRO:CG	4:O:27:TYR:CD2	2.95	0.50
1:J:283:VAL:HG21	1:K:453:VAL:CG2	2.36	0.50
1:I:890:ASN:HD22	1:I:892:LEU:N	2.02	0.50
1:F:890:ASN:HD22	1:F:892:LEU:N	2.02	0.50
1:G:62:ARG:CZ	1:I:737:LEU:HA	2.41	0.50
1:J:554:TYR:CD1	5:Q:57:LEU:HD21	2.46	0.50
1:J:246:GLN:CG	1:J:290:VAL:HG11	2.41	0.50
1:G:569:LYS:HG2	1:G:570:ASN:ND2	2.27	0.50
1:H:922:PHE:O	1:H:941:ARG:HA	2.12	0.50
1:C:922:PHE:O	1:C:941:ARG:HA	2.12	0.50
1:C:362:ASP:CB	1:C:941:ARG:HH22	2.17	0.50
1:I:279:LEU:O	1:I:280:THR:C	2.49	0.50
5:S:95:ALA:O	5:S:99:LYS:HG2	2.12	0.50
5:R:30:MET:O	5:R:39:VAL:HB	2.12	0.50
1:E:34:THR:HG22	1:E:37:TYR:CE1	2.46	0.50
3:N:209:GLN:HA	3:N:212:TRP:NE1	2.27	0.50
1:D:17:GLN:HB3	1:D:21:GLU:HB2	1.94	0.50
1:B:387:ASN:ND2	1:B:545:ARG:HG2	2.26	0.50
1:L:569:LYS:HG2	1:L:570:ASN:ND2	2.27	0.50
1:L:387:ASN:ND2	1:L:545:ARG:HG2	2.26	0.50
1:G:658:ASN:C	5:Q:86:ALA:HB1	2.31	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:6:MET:H	1:L:7:PRO:HD2	1.77	0.50
1:G:666:ILE:O	1:G:667:PRO:O	2.30	0.50
1:J:556:PRO:HG2	5:Q:52:VAL:CG2	2.42	0.50
1:C:248:ILE:HD11	1:C:289:ASP:HB2	1.93	0.50
1:J:892:LEU:HD22	4:P:224:ASP:CB	2.41	0.50
1:C:13:HIS:CE1	1:C:22:TYR:CZ	3.00	0.50
1:E:13:HIS:CE1	1:E:22:TYR:CZ	3.00	0.50
1:L:24:SER:OG	1:L:27:LEU:CB	2.60	0.50
1:K:463:LEU:CD2	1:L:463:LEU:HD21	2.25	0.50
1:A:165:THR:HB	1:B:445:PHE:H	1.77	0.50
1:I:183:ILE:CG2	1:I:284:VAL:HB	2.42	0.50
1:H:853:THR:CG2	1:I:293:GLU:OE1	2.56	0.50
1:K:218:ALA:O	1:K:283:VAL:HA	2.11	0.50
1:G:218:ALA:O	1:G:283:VAL:HA	2.12	0.50
1:A:428:VAL:CG1	1:A:438:TRP:HB3	2.41	0.50
1:H:87:VAL:HG12	1:H:87:VAL:O	2.12	0.50
1:J:663:PRO:CD	5:Q:92:ARG:NH1	2.74	0.50
1:H:34:THR:C	1:H:36:THR:N	2.64	0.50
1:B:34:THR:C	1:B:36:THR:N	2.64	0.50
1:J:877:ASN:ND2	1:K:619:PHE:CZ	2.78	0.50
1:J:34:THR:O	1:J:38:PHE:O	2.30	0.50
1:J:758:CYS:HA	1:J:861:LYS:HG2	1.93	0.50
1:J:17:GLN:HB3	1:J:21:GLU:HB2	1.94	0.50
1:F:17:GLN:HB3	1:F:21:GLU:HB2	1.94	0.50
1:K:922:PHE:O	1:K:941:ARG:HA	2.12	0.50
4:O:197:TYR:O	4:O:198:PHE:HB2	2.11	0.50
1:H:13:HIS:CE1	1:H:22:TYR:CZ	3.00	0.50
1:E:941:ARG:HD2	1:E:944:PHE:O	2.12	0.50
1:E:278:ASN:C	1:E:280:THR:N	2.65	0.50
1:K:938:VAL:HG22	4:O:40:MET:HE1	1.86	0.50
5:Q:30:MET:O	5:Q:39:VAL:HB	2.12	0.50
1:J:430:PRO:O	1:J:431:LYS:HB2	2.11	0.50
1:I:248:ILE:HD11	1:I:289:ASP:HB2	1.93	0.50
1:H:59:ARG:HD2	1:H:623:HIS:NE2	2.27	0.50
1:K:13:HIS:CE1	1:K:22:TYR:CZ	3.00	0.50
1:K:725:ASP:CG	4:O:15:PRO:HD3	2.31	0.50
1:J:24:SER:OG	1:J:27:LEU:CB	2.60	0.50
1:J:105:VAL:CG2	5:Q:56:PRO:O	2.60	0.50
1:D:25:PRO:CD	4:P:202:SER:HB3	2.42	0.50
1:G:570:ASN:O	1:H:43:LYS:CD	2.60	0.50
1:I:87:VAL:O	1:I:88:GLY:O	2.30	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:87:VAL:O	1:H:88:GLY:O	2.30	0.50
1:E:734:ASP:OD1	1:J:740:ASN:OD1	2.29	0.50
1:F:72:ARG:HH22	5:Q:97:ASP:CG	2.15	0.50
1:K:17:GLN:HB3	1:K:21:GLU:HB2	1.94	0.50
1:B:59:ARG:HD2	1:B:623:HIS:NE2	2.27	0.50
1:B:569:LYS:HG2	1:B:570:ASN:ND2	2.27	0.50
1:A:202:GLU:OE1	1:C:820:HIS:CD2	2.63	0.50
1:H:569:LYS:HG2	1:H:570:ASN:ND2	2.27	0.50
1:H:17:GLN:HB3	1:H:21:GLU:HB2	1.94	0.50
5:Q:122:LEU:O	5:Q:125:ARG:HG2	2.12	0.50
5:Q:83:SER:N	5:Q:84:PRO:HD2	2.26	0.49
1:F:88:GLY:HA3	4:P:226:TYR:CE1	2.44	0.49
1:K:942:THR:HB	4:O:29:THR:OG1	2.12	0.49
3:N:198:THR:HB	4:O:199:ASN:CB	2.42	0.49
1:A:87:VAL:HG12	1:A:87:VAL:O	2.12	0.49
1:D:8:GLN:NE2	4:P:34:MET:O	2.45	0.49
1:G:895:ASN:HD22	4:P:189:ILE:HG22	1.69	0.49
1:G:672:ALA:O	1:G:943:PRO:HG3	2.12	0.49
1:C:728:VAL:HB	1:E:947:GLY:C	2.30	0.49
1:H:247:GLY:O	1:H:248:ILE:CB	2.60	0.49
1:B:430:PRO:O	1:B:431:LYS:HB2	2.12	0.49
1:G:278:ASN:C	1:G:280:THR:N	2.65	0.49
1:G:247:GLY:O	1:G:248:ILE:CB	2.60	0.49
1:J:672:ALA:O	1:J:943:PRO:HG3	2.12	0.49
1:K:59:ARG:HD2	1:K:623:HIS:NE2	2.26	0.49
1:K:9:TRP:CZ2	4:P:16:GLN:OE1	2.65	0.49
1:G:762:LYS:NZ	1:H:101:ASP:OD2	2.39	0.49
1:B:672:ALA:O	1:B:943:PRO:CG	2.47	0.49
1:C:739:PRO:CB	1:E:341:THR:HG22	2.29	0.49
1:B:13:HIS:CE1	1:B:22:TYR:CZ	3.00	0.49
1:C:349:GLY:O	1:C:350:GLN:C	2.50	0.49
1:K:853:THR:CB	1:L:295:PRO:HB3	2.42	0.49
1:D:463:LEU:CD1	1:E:463:LEU:CD2	2.85	0.49
1:E:165:THR:N	1:F:445:PHE:H	2.09	0.49
2:M:155:LYS:O	2:M:156:ASP:CB	2.37	0.49
1:C:178:ILE:CD1	1:C:284:VAL:HG23	2.38	0.49
1:J:268:THR:CG2	1:J:268:THR:O	2.60	0.49
1:J:637:THR:CG2	4:P:173:THR:CG2	2.90	0.49
5:S:49:TYR:HD1	5:S:49:TYR:C	2.14	0.49
1:J:235:SER:HB3	1:L:842:PRO:HB3	1.93	0.49
1:B:246:GLN:CG	1:B:290:VAL:HG11	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:773:TYR:O	1:L:774:ASN:HB2	2.11	0.49
1:G:56:THR:OG1	1:I:876:SER:OG	2.23	0.49
1:C:347:LEU:CD2	1:C:568:ILE:HG21	2.33	0.49
1:K:762:LYS:NZ	1:L:101:ASP:OD2	2.43	0.49
1:H:944:PHE:O	1:H:945:SER:O	2.30	0.49
1:I:362:ASP:CB	1:I:941:ARG:HH22	2.17	0.49
1:F:922:PHE:O	1:F:941:ARG:HA	2.12	0.49
1:G:438:TRP:O	1:I:279:LEU:HD13	2.12	0.49
1:B:267:SER:O	1:C:425:LEU:CD2	2.54	0.49
1:D:672:ALA:O	1:D:943:PRO:HG3	2.12	0.49
1:D:59:ARG:HD2	1:D:623:HIS:NE2	2.27	0.49
1:G:34:THR:O	1:G:38:PHE:O	2.30	0.49
4:P:197:TYR:C	4:P:199:ASN:H	2.14	0.49
1:D:824:ASN:N	1:E:121:ASN:OD1	2.30	0.49
1:K:278:ASN:C	1:K:280:THR:N	2.65	0.49
1:E:301:TYR:OH	1:F:208:SER:OG	2.20	0.49
2:M:444:MET:HB2	2:M:539:GLN:NE2	2.27	0.49
1:G:387:ASN:ND2	1:G:545:ARG:HG2	2.26	0.49
1:I:352:SER:C	1:I:354:LEU:H	2.15	0.49
4:P:52:ASN:HB3	4:P:196:VAL:HG11	1.94	0.49
1:L:17:GLN:HB3	1:L:21:GLU:HB2	1.94	0.49
1:H:352:SER:C	1:H:354:LEU:H	2.15	0.49
1:K:945:SER:HB3	4:O:28:SER:C	2.32	0.49
1:J:59:ARG:HD2	1:J:623:HIS:NE2	2.27	0.49
1:G:24:SER:N	1:I:638:ASN:OD1	2.45	0.49
1:G:24:SER:OG	1:G:27:LEU:CB	2.60	0.49
1:B:737:LEU:HB2	1:B:753:TYR:HE2	1.73	0.49
1:D:25:PRO:CG	4:P:202:SER:CB	2.89	0.49
1:A:773:TYR:O	1:A:774:ASN:HB2	2.11	0.49
1:B:842:PRO:HB3	1:C:235:SER:HB3	1.94	0.49
1:C:278:ASN:C	1:C:280:THR:N	2.65	0.49
1:K:87:VAL:HG12	1:K:87:VAL:O	2.12	0.49
1:I:922:PHE:O	1:I:941:ARG:HA	2.12	0.49
1:D:87:VAL:O	1:D:87:VAL:HG12	2.12	0.49
4:O:92:PRO:O	4:O:93:ARG:HB2	2.12	0.49
1:C:34:THR:C	1:C:36:THR:N	2.64	0.49
1:I:34:THR:O	1:I:38:PHE:O	2.30	0.49
1:F:34:THR:O	1:F:38:PHE:O	2.30	0.49
1:E:34:THR:O	1:E:38:PHE:O	2.30	0.49
1:G:785:SER:CB	1:H:381:ARG:NH2	2.75	0.49
1:B:758:CYS:HA	1:B:861:LYS:HG2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:87:VAL:O	1:F:88:GLY:O	2.30	0.49
3:N:197:GLN:N	4:O:197:TYR:HD2	2.08	0.49
1:K:948:ASN:ND2	4:O:33:TYR:CE2	2.80	0.49
1:F:350:GLN:H	1:F:578:TYR:HA	1.77	0.49
1:G:889:GLN:HE22	1:H:49:VAL:CG1	2.25	0.49
1:G:948:ASN:OD1	4:P:32:ASN:HB2	2.12	0.49
1:E:248:ILE:HD11	1:E:289:ASP:HB2	1.94	0.49
1:E:178:ILE:HB	1:E:281:PRO:HG2	1.93	0.49
1:L:758:CYS:HA	1:L:861:LYS:HG2	1.93	0.49
1:A:240:THR:CG2	1:A:249:LEU:HD11	2.41	0.49
1:D:248:ILE:HD11	1:D:289:ASP:HB2	1.93	0.49
1:E:725:ASP:O	1:E:726:SER:OG	2.30	0.49
1:D:13:HIS:CE1	1:D:22:TYR:CZ	3.00	0.49
1:A:59:ARG:HD2	1:A:623:HIS:NE2	2.27	0.49
1:E:229:MET:HE3	1:E:314:MET:CG	2.39	0.49
1:G:13:HIS:CE1	1:G:22:TYR:CZ	3.00	0.49
1:K:24:SER:OG	1:K:27:LEU:CB	2.60	0.49
1:C:87:VAL:O	1:C:87:VAL:HG12	2.12	0.49
1:H:463:LEU:CD1	1:I:463:LEU:HD23	2.19	0.49
1:D:264:GLN:O	1:D:266:PHE:CD1	2.64	0.49
1:I:178:ILE:HG22	1:I:281:PRO:HG3	1.94	0.49
1:F:188:GLU:HG3	1:F:193:LYS:CG	2.43	0.49
1:A:268:THR:O	1:A:268:THR:CG2	2.59	0.49
1:B:773:TYR:O	1:B:774:ASN:HB2	2.11	0.49
1:J:569:LYS:HG2	1:J:570:ASN:ND2	2.27	0.49
2:M:230:VAL:HG13	2:M:503:GLN:NE2	2.18	0.49
1:J:659:ALA:HB2	5:R:134:SER:OG	2.12	0.49
1:J:119:ALA:CB	1:L:519:LEU:HD12	2.41	0.49
1:G:34:THR:C	1:G:36:THR:N	2.64	0.49
1:A:121:ASN:HA	1:C:824:ASN:OD1	2.11	0.49
1:A:758:CYS:HA	1:A:861:LYS:HG2	1.93	0.49
1:C:828:VAL:CG1	1:C:829:GLY:N	2.76	0.49
1:F:758:CYS:HA	1:F:861:LYS:HG2	1.93	0.49
1:D:569:LYS:HG2	1:D:570:ASN:ND2	2.27	0.49
1:J:456:ASN:O	1:K:836:ARG:NH1	2.45	0.49
1:E:387:ASN:ND2	1:E:545:ARG:HG2	2.26	0.49
1:G:45:ARG:HB3	1:I:641:SER:OG	2.12	0.49
1:D:265:PHE:CD2	1:E:438:TRP:CH2	3.00	0.49
1:J:247:GLY:O	1:J:248:ILE:CB	2.60	0.49
1:J:352:SER:C	1:J:354:LEU:H	2.16	0.49
1:K:247:GLY:O	1:K:248:ILE:CB	2.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:352:SER:C	1:E:354:LEU:H	2.15	0.49
1:B:633:LEU:CD2	1:C:27:LEU:HD21	2.41	0.49
1:C:731:PRO:HD3	1:C:742:PHE:CZ	2.47	0.49
1:D:719:LYS:NZ	5:R:22:TRP:HB3	2.27	0.49
1:I:13:HIS:CE1	1:I:22:TYR:CZ	3.00	0.49
1:H:651:MET:HE3	5:S:18:ARG:HD3	1.92	0.49
1:C:932:ARG:O	1:K:667:PRO:HB3	2.12	0.49
1:D:463:LEU:HD21	1:F:463:LEU:CD2	2.30	0.49
3:N:272:GLU:HG2	4:O:61:ILE:C	2.33	0.49
1:D:777:TYR:OH	1:E:63:LEU:HD21	2.13	0.49
1:I:874:PHE:CZ	1:I:893:TYR:OH	2.65	0.49
1:L:268:THR:O	1:L:268:THR:CG2	2.60	0.49
1:D:87:VAL:O	1:D:88:GLY:O	2.30	0.49
1:E:739:PRO:HG3	1:J:740:ASN:ND2	2.28	0.49
1:G:752:GLY:O	1:H:558:HIS:CE1	2.65	0.49
1:K:779:GLY:CA	1:L:96:ALA:O	2.60	0.49
1:A:569:LYS:HG2	1:A:570:ASN:ND2	2.27	0.49
1:H:751:GLU:HB2	1:I:103:ARG:NH2	2.27	0.49
1:A:34:THR:O	1:A:38:PHE:O	2.30	0.49
1:H:828:VAL:CG1	1:H:829:GLY:N	2.76	0.49
1:B:828:VAL:CG1	1:B:829:GLY:N	2.76	0.49
1:E:758:CYS:HA	1:E:861:LYS:HG2	1.93	0.49
3:N:161:TYR:HD1	3:N:212:TRP:CZ2	2.29	0.49
1:J:42:ASN:ND2	1:L:570:ASN:HB3	2.27	0.49
1:A:407:ASP:O	1:B:126:LYS:HE2	2.12	0.49
1:H:407:ASP:O	1:I:126:LYS:HE2	2.13	0.49
1:A:24:SER:OG	1:A:27:LEU:CB	2.60	0.49
1:K:669:ARG:O	4:O:10:MET:CE	2.59	0.49
3:N:194:GLN:CA	4:O:207:HIS:CB	2.86	0.49
1:A:87:VAL:O	1:A:88:GLY:O	2.30	0.49
1:F:352:SER:C	1:F:354:LEU:H	2.16	0.49
1:G:183:ILE:CG2	1:G:284:VAL:HB	2.42	0.49
1:K:352:SER:C	1:K:354:LEU:H	2.15	0.49
1:J:889:GLN:NE2	1:K:52:THR:HG21	2.25	0.49
1:F:13:HIS:CE1	1:F:22:TYR:CZ	3.00	0.49
1:J:13:HIS:CE1	1:J:22:TYR:CZ	3.00	0.49
1:A:924:VAL:CG2	1:B:14:ILE:CD1	2.63	0.49
1:F:218:ALA:O	1:F:283:VAL:HA	2.13	0.49
1:G:551:ASN:HB3	1:I:521:ALA:CA	2.41	0.49
1:F:773:TYR:O	1:F:774:ASN:HB2	2.11	0.49
1:C:569:LYS:HG2	1:C:570:ASN:ND2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:87:VAL:O	1:B:88:GLY:O	2.30	0.49
1:J:9:TRP:HZ2	1:L:673:ALA:HB2	1.77	0.49
1:E:59:ARG:HD2	1:E:623:HIS:NE2	2.27	0.49
1:L:59:ARG:HD2	1:L:623:HIS:NE2	2.27	0.49
5:Q:79:PHE:O	5:Q:80:ALA:CB	2.60	0.49
1:D:828:VAL:CG1	1:D:829:GLY:N	2.75	0.49
1:D:42:ASN:ND2	1:F:570:ASN:HB3	2.27	0.49
2:M:126:ILE:HD12	2:M:558:LEU:HD11	1.95	0.49
1:B:352:SER:C	1:B:354:LEU:H	2.15	0.49
1:K:672:ALA:O	1:K:943:PRO:HG3	2.12	0.49
1:F:608:LYS:HG3	5:T:98:ASP:CG	2.32	0.49
1:F:354:LEU:HD13	1:F:355:ASN:H	1.77	0.49
1:G:890:ASN:HD22	1:G:892:LEU:N	2.02	0.49
1:K:924:VAL:CG2	1:L:14:ILE:CD1	2.70	0.49
1:J:248:ILE:HD11	1:J:289:ASP:HB2	1.93	0.49
1:C:24:SER:OG	1:C:27:LEU:CB	2.60	0.49
1:E:463:LEU:HD21	1:F:463:LEU:CD2	2.28	0.49
1:E:268:THR:O	1:E:268:THR:CG2	2.59	0.49
1:C:178:ILE:CG2	1:C:281:PRO:HG2	2.43	0.49
1:I:87:VAL:HG12	1:I:87:VAL:O	2.12	0.49
1:K:87:VAL:O	1:K:88:GLY:O	2.30	0.49
1:J:922:PHE:O	1:J:941:ARG:HA	2.12	0.49
1:L:672:ALA:O	1:L:943:PRO:HG3	2.12	0.49
1:D:170:GLN:HA	1:E:452:ARG:O	2.11	0.49
1:I:304:THR:HG22	1:I:306:LYS:N	2.23	0.49
1:A:672:ALA:O	1:A:943:PRO:HG3	2.12	0.49
1:H:34:THR:O	1:H:38:PHE:O	2.30	0.49
1:B:34:THR:O	1:B:38:PHE:O	2.30	0.49
1:A:170:GLN:OE1	1:C:839:GLN:HA	2.13	0.49
1:D:34:THR:O	1:D:38:PHE:O	2.30	0.49
1:I:677:TRP:NE1	1:I:902:MET:HE2	2.26	0.49
1:D:756:ALA:HA	1:E:385:MET:HA	1.95	0.49
1:A:17:GLN:HB3	1:A:21:GLU:HB2	1.93	0.49
1:G:383:PHE:HB2	1:I:782:ILE:HG12	1.95	0.49
1:J:729:SER:O	4:P:226:TYR:C	2.51	0.49
1:K:945:SER:N	4:O:28:SER:O	2.46	0.49
1:G:886:ASP:HB3	1:H:51:PRO:O	2.13	0.49
1:H:19:ALA:O	1:H:23:LEU:HG	2.13	0.49
1:E:432:THR:HG22	1:E:439:GLU:HG3	1.84	0.49
1:K:939:TYR:H	4:O:32:ASN:HD21	1.61	0.49
1:L:430:PRO:O	1:L:431:LYS:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:248:ILE:HD11	1:K:289:ASP:HB2	1.94	0.49
1:J:24:SER:CB	1:L:638:ASN:ND2	2.73	0.49
1:E:890:ASN:HD22	1:E:892:LEU:HB3	1.77	0.49
1:G:62:ARG:CG	1:I:734:ASP:O	2.58	0.49
1:H:672:ALA:O	1:H:943:PRO:HG3	2.12	0.49
1:G:824:ASN:N	1:H:121:ASN:OD1	2.31	0.49
1:K:570:ASN:O	1:L:43:LYS:HD3	2.12	0.49
1:L:828:VAL:CG1	1:L:829:GLY:N	2.76	0.49
5:T:122:LEU:O	5:T:125:ARG:HB3	2.13	0.49
1:E:339:ASN:HD21	1:E:365:THR:H	1.60	0.49
1:G:17:GLN:HB3	1:G:21:GLU:HB2	1.93	0.49
1:A:19:ALA:O	1:A:23:LEU:HG	2.13	0.49
1:C:631:ALA:O	4:O:201:PHE:CZ	2.66	0.49
1:F:669:ARG:O	1:F:670:ASN:O	2.30	0.49
1:G:890:ASN:HD22	1:G:892:LEU:HB3	1.78	0.49
1:H:11:TYR:CD1	4:P:43:ARG:CG	2.95	0.49
1:B:247:GLY:O	1:B:248:ILE:CB	2.60	0.49
1:B:248:ILE:HD11	1:B:289:ASP:HB2	1.93	0.49
1:A:247:GLY:O	1:A:248:ILE:CB	2.60	0.49
1:H:248:ILE:HG23	1:H:250:VAL:HG12	1.87	0.49
1:I:240:THR:CG2	1:I:249:LEU:HD11	2.41	0.49
1:C:341:THR:O	1:K:692:SER:C	2.50	0.49
1:K:77:TYR:CE1	1:K:693:GLY:O	2.66	0.49
1:D:27:LEU:CA	1:F:632:MET:HE3	2.43	0.49
1:D:737:LEU:HB2	1:D:753:TYR:HE2	1.73	0.49
1:J:638:ASN:OD1	1:K:24:SER:N	2.46	0.49
1:K:724:PHE:O	1:K:725:ASP:CB	2.60	0.49
1:L:874:PHE:CZ	1:L:893:TYR:OH	2.65	0.49
1:L:892:LEU:HB2	4:P:103:ASN:CG	2.33	0.49
1:H:689:SER:H	5:S:26:ARG:HH21	1.60	0.49
1:D:463:LEU:CD2	1:F:463:LEU:CD1	2.81	0.49
1:D:188:GLU:HG3	1:D:193:LYS:CG	2.42	0.49
1:G:521:ALA:HB2	1:H:551:ASN:CG	2.32	0.49
1:G:59:ARG:HD2	1:G:623:HIS:NE2	2.27	0.49
1:G:62:ARG:NH2	1:I:737:LEU:C	2.64	0.49
1:E:521:ALA:HB2	1:F:551:ASN:CG	2.33	0.49
1:J:635:ASN:CG	4:P:173:THR:OG1	2.51	0.49
1:G:246:GLN:CG	1:G:290:VAL:CG1	2.85	0.49
1:E:569:LYS:HG2	1:E:570:ASN:ND2	2.27	0.49
1:I:945:SER:O	1:I:946:ALA:O	2.30	0.49
1:B:929:ARG:CG	1:B:929:ARG:NH1	2.74	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:304:THR:HG22	1:G:306:LYS:N	2.23	0.49
1:F:347:LEU:HG	1:F:347:LEU:O	2.12	0.49
1:D:304:THR:HG22	1:D:306:LYS:N	2.23	0.49
1:J:114:PRO:CG	1:L:520:GLY:HA3	2.41	0.49
1:H:758:CYS:HA	1:H:861:LYS:HG2	1.93	0.49
1:L:352:SER:C	1:L:354:LEU:H	2.16	0.49
5:R:120:GLN:O	5:R:124:LEU:HB2	2.12	0.49
1:F:948:ASN:HD22	1:G:358:VAL:CG2	2.17	0.49
1:G:352:SER:C	1:G:354:LEU:H	2.15	0.49
1:H:24:SER:OG	1:H:27:LEU:HB2	2.13	0.49
1:F:247:GLY:O	1:F:248:ILE:CB	2.60	0.49
1:D:240:THR:CG2	1:D:249:LEU:HD11	2.41	0.49
1:H:67:PHE:CE1	1:J:353:GLN:CG	2.96	0.49
1:A:463:LEU:CD2	1:B:463:LEU:HD21	2.34	0.49
1:J:295:PRO:HB3	1:L:853:THR:CB	2.42	0.49
1:B:187:VAL:CA	1:B:191:THR:O	2.61	0.49
1:K:400:ILE:CD1	1:K:476:ILE:CD1	2.89	0.49
1:I:569:LYS:HG2	1:I:570:ASN:ND2	2.27	0.49
1:H:362:ASP:CB	1:H:941:ARG:HH22	2.17	0.49
1:A:49:VAL:HA	1:C:884:LEU:HB3	1.95	0.49
1:A:879:MET:CE	1:C:37:TYR:HA	2.43	0.49
1:C:34:THR:O	1:C:38:PHE:O	2.30	0.49
4:P:197:TYR:O	4:P:198:PHE:HB2	2.13	0.49
1:K:569:LYS:HG2	1:K:570:ASN:ND2	2.27	0.49
1:H:35:GLU:OE1	1:H:41:ASN:ND2	2.46	0.49
1:G:828:VAL:CG1	1:G:829:GLY:N	2.76	0.49
1:J:828:VAL:CG1	1:J:829:GLY:N	2.76	0.49
1:C:758:CYS:HA	1:C:861:LYS:HG2	1.93	0.49
1:G:35:GLU:OE1	1:G:41:ASN:ND2	2.46	0.49
1:F:87:VAL:HG12	1:F:87:VAL:O	2.12	0.49
4:O:197:TYR:C	4:O:199:ASN:H	2.16	0.49
1:H:2:THR:O	1:H:3:PRO:O	2.30	0.49
1:F:934:VAL:CG2	4:P:27:TYR:OH	2.45	0.49
1:E:240:THR:CG2	1:E:249:LEU:HD11	2.41	0.49
1:E:178:ILE:HG13	1:E:217:HIS:HB3	1.95	0.49
1:F:428:VAL:HG11	1:F:438:TRP:HE3	1.78	0.49
1:L:248:ILE:HD11	1:L:289:ASP:HB2	1.93	0.49
1:D:247:GLY:O	1:D:248:ILE:CB	2.60	0.49
1:D:27:LEU:HD12	1:D:27:LEU:O	2.13	0.49
1:C:19:ALA:O	1:C:23:LEU:HG	2.13	0.49
1:J:566:PHE:CE1	1:J:925:VAL:HG23	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:633:LEU:HD21	1:K:27:LEU:HD21	1.94	0.49
1:K:463:LEU:CD1	1:L:463:LEU:CD2	2.82	0.49
1:J:445:PHE:N	1:L:165:THR:HB	2.28	0.49
1:C:178:ILE:HG13	1:C:217:HIS:HB3	1.95	0.49
1:I:908:PRO:HG3	5:T:43:ASN:O	2.13	0.49
1:E:876:SER:HB3	1:F:56:THR:CG2	2.28	0.49
1:A:890:ASN:HD22	1:A:892:LEU:HB3	1.78	0.49
1:B:246:GLN:CD	1:B:290:VAL:HG11	2.33	0.49
1:K:737:LEU:HB2	1:K:753:TYR:HE2	1.73	0.49
1:J:87:VAL:O	1:J:87:VAL:HG12	2.12	0.49
1:J:87:VAL:O	1:J:88:GLY:O	2.30	0.49
1:E:304:THR:HG22	1:E:306:LYS:N	2.23	0.49
1:A:779:GLY:CA	1:B:96:ALA:O	2.59	0.49
1:B:30:PHE:CE1	1:B:34:THR:HG21	2.48	0.49
1:E:34:THR:C	1:E:36:THR:N	2.64	0.49
1:I:35:GLU:OE1	1:I:41:ASN:ND2	2.46	0.49
1:F:828:VAL:CG1	1:F:829:GLY:N	2.76	0.49
1:E:828:VAL:CG1	1:E:829:GLY:N	2.76	0.49
3:N:34:ILE:HG13	3:N:35:MET:HG3	1.93	0.49
1:J:836:ARG:NH1	1:L:456:ASN:O	2.46	0.49
1:D:126:LYS:HE2	1:F:407:ASP:O	2.13	0.49
3:N:197:GLN:N	4:O:197:TYR:CD2	2.74	0.48
1:G:922:PHE:O	1:G:941:ARG:HA	2.12	0.48
1:K:891:LEU:CD1	3:N:290:THR:HG22	2.42	0.48
3:N:294:GLU:OE1	4:O:58:GLN:NE2	2.45	0.48
1:J:558:HIS:HE1	1:L:752:GLY:O	1.95	0.48
1:G:279:LEU:HD12	1:H:438:TRP:O	2.13	0.48
2:M:106:ALA:HA	2:M:109:GLN:HE21	1.77	0.48
1:E:340:SER:O	1:E:342:GLY:N	2.46	0.48
1:L:13:HIS:CE1	1:L:22:TYR:CZ	3.00	0.48
1:I:758:CYS:HA	1:I:861:LYS:HG2	1.93	0.48
1:C:354:LEU:HD13	1:C:355:ASN:N	2.28	0.48
1:H:463:LEU:HD21	1:I:463:LEU:CD2	2.30	0.48
1:A:187:VAL:CA	1:A:191:THR:O	2.61	0.48
1:J:178:ILE:HG13	1:J:217:HIS:HB3	1.95	0.48
1:L:188:GLU:HG3	1:L:193:LYS:CG	2.43	0.48
1:D:187:VAL:CA	1:D:191:THR:O	2.61	0.48
1:I:187:VAL:CA	1:I:191:THR:O	2.61	0.48
1:H:697:TYR:CA	5:S:31:GLY:HA2	2.27	0.48
1:J:853:THR:CB	1:K:295:PRO:HB3	2.42	0.48
1:G:773:TYR:O	1:G:774:ASN:HB2	2.11	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:347:LEU:O	1:C:347:LEU:HG	2.12	0.48
1:L:908:PRO:CG	5:Q:43:ASN:HA	2.38	0.48
5:R:40:LEU:HD22	5:R:46:THR:HG21	1.94	0.48
1:D:619:PHE:CE1	1:E:37:TYR:HB2	2.48	0.48
1:A:96:ALA:O	1:C:779:GLY:CA	2.60	0.48
1:K:758:CYS:HA	1:K:861:LYS:HG2	1.93	0.48
1:A:35:GLU:OE1	1:A:41:ASN:ND2	2.46	0.48
1:F:35:GLU:OE1	1:F:41:ASN:ND2	2.46	0.48
1:I:828:VAL:CG1	1:I:829:GLY:N	2.75	0.48
1:E:407:ASP:O	1:F:126:LYS:HE2	2.13	0.48
2:M:110:THR:HG22	2:M:536:GLY:HA2	1.95	0.48
1:G:124:ALA:HB2	1:I:827:PHE:CE2	2.48	0.48
1:J:730:TRP:CB	4:P:226:TYR:O	2.61	0.48
1:A:24:SER:OG	1:A:27:LEU:HB2	2.13	0.48
1:K:944:PHE:O	1:K:945:SER:O	2.30	0.48
1:L:4:SER:OG	4:O:55:LEU:HD11	2.13	0.48
1:G:874:PHE:HZ	1:G:893:TYR:OH	1.89	0.48
1:H:7:PRO:HB3	4:P:47:ILE:O	2.13	0.48
4:P:55:LEU:HD21	4:P:194:PRO:CB	2.32	0.48
1:L:178:ILE:HG13	1:L:217:HIS:HB3	1.95	0.48
1:C:240:THR:CG2	1:C:249:LEU:HD11	2.41	0.48
1:L:261:VAL:HG12	1:L:262:GLU:N	2.28	0.48
1:I:247:GLY:O	1:I:248:ILE:CB	2.60	0.48
1:I:240:THR:CG2	1:I:249:LEU:CD1	2.92	0.48
1:F:60:SER:HB2	1:J:733:ASN:HA	1.86	0.48
1:E:19:ALA:O	1:E:23:LEU:HG	2.13	0.48
1:G:19:ALA:O	1:G:23:LEU:HG	2.13	0.48
1:B:24:SER:OG	1:B:27:LEU:HB2	2.13	0.48
1:B:890:ASN:HD22	1:B:892:LEU:HB3	1.78	0.48
3:N:271:ASP:OD1	3:N:297:LEU:CD1	2.40	0.48
1:J:188:GLU:HG3	1:J:193:LYS:CG	2.43	0.48
1:A:188:GLU:HG3	1:A:193:LYS:CG	2.43	0.48
1:I:188:GLU:HG3	1:I:193:LYS:CG	2.43	0.48
1:D:400:ILE:CD1	1:D:476:ILE:CD1	2.89	0.48
1:D:874:PHE:CZ	1:D:893:TYR:OH	2.65	0.48
1:D:922:PHE:O	1:D:941:ARG:HA	2.12	0.48
1:G:779:GLY:CA	1:H:96:ALA:O	2.56	0.48
1:G:114:PRO:CG	1:I:520:GLY:HA3	2.39	0.48
1:D:62:ARG:HA	1:F:735:ARG:HA	1.95	0.48
1:K:30:PHE:CE1	1:K:34:THR:HG21	2.48	0.48
1:K:34:THR:O	1:K:38:PHE:O	2.30	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:301:TYR:OH	1:F:208:SER:CB	2.61	0.48
1:L:326:ILE:HA	1:L:593:GLN:O	2.14	0.48
1:D:352:SER:C	1:D:354:LEU:H	2.15	0.48
1:C:566:PHE:CE1	1:C:925:VAL:HG23	2.48	0.48
1:F:928:HIS:HD1	4:P:30:ARG:NH2	2.07	0.48
1:G:947:GLY:C	1:G:948:ASN:CG	2.70	0.48
1:G:924:VAL:CG2	1:H:14:ILE:CD1	2.57	0.48
4:P:44:VAL:HA	4:P:47:ILE:CD1	2.41	0.48
1:L:2:THR:O	1:L:3:PRO:O	2.30	0.48
1:H:240:THR:CG2	1:H:249:LEU:HD11	2.42	0.48
1:B:430:PRO:N	1:B:438:TRP:CD1	2.81	0.48
1:F:19:ALA:O	1:F:23:LEU:HG	2.13	0.48
1:L:24:SER:OG	1:L:27:LEU:HB2	2.13	0.48
1:B:19:ALA:O	1:B:23:LEU:HG	2.13	0.48
1:G:14:ILE:HD13	1:I:924:VAL:HG21	1.84	0.48
1:G:463:LEU:CD2	1:H:463:LEU:HD21	2.33	0.48
1:E:187:VAL:CA	1:E:191:THR:O	2.61	0.48
1:F:566:PHE:CE1	1:F:925:VAL:HG23	2.48	0.48
1:C:187:VAL:CA	1:C:191:THR:O	2.61	0.48
1:B:283:VAL:HG21	1:C:453:VAL:CG2	2.39	0.48
1:K:170:GLN:HA	1:L:452:ARG:O	2.13	0.48
1:E:839:GLN:HA	1:F:170:GLN:OE1	2.13	0.48
1:L:34:THR:O	1:L:38:PHE:O	2.30	0.48
1:E:619:PHE:CE1	1:F:37:TYR:HB2	2.48	0.48
1:C:35:GLU:OE1	1:C:41:ASN:ND2	2.46	0.48
1:A:183:ILE:CG2	1:A:284:VAL:HB	2.42	0.48
1:D:178:ILE:HG22	1:D:281:PRO:HG3	1.95	0.48
1:D:178:ILE:HB	1:D:281:PRO:HG2	1.96	0.48
1:L:240:THR:CG2	1:L:249:LEU:CD1	2.92	0.48
1:J:950:THR:OG1	1:J:951:THR:CG2	2.58	0.48
1:C:24:SER:OG	1:C:27:LEU:HB2	2.14	0.48
1:J:19:ALA:O	1:J:23:LEU:HG	2.13	0.48
1:J:24:SER:OG	1:J:27:LEU:HB2	2.13	0.48
1:G:556:PRO:CB	5:T:52:VAL:HG22	2.31	0.48
1:H:651:MET:HE3	5:S:18:ARG:CD	2.43	0.48
1:B:891:LEU:HB3	3:N:93:LEU:CB	2.43	0.48
1:J:165:THR:O	1:K:445:PHE:CA	2.56	0.48
1:H:187:VAL:CA	1:H:191:THR:O	2.61	0.48
1:H:188:GLU:HG3	1:H:193:LYS:CG	2.43	0.48
1:B:188:GLU:HG3	1:B:193:LYS:CG	2.43	0.48
1:H:699:THR:CG2	5:S:31:GLY:O	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:400:ILE:CD1	1:A:476:ILE:CD1	2.89	0.48
1:H:268:THR:CG2	1:H:268:THR:O	2.60	0.48
1:A:519:LEU:HD13	1:B:115:TYR:CE1	2.48	0.48
1:H:30:PHE:CE1	1:H:34:THR:HG21	2.48	0.48
1:I:59:ARG:HD2	1:I:623:HIS:NE2	2.27	0.48
1:A:828:VAL:CG1	1:A:829:GLY:N	2.76	0.48
3:N:126:ALA:O	3:N:130:ARG:HG3	2.13	0.48
1:C:635:ASN:ND2	4:O:25:GLN:NE2	2.57	0.48
1:L:11:TYR:CE1	4:O:43:ARG:CG	2.95	0.48
1:D:5:MET:O	1:D:6:MET:CG	2.62	0.48
1:D:9:TRP:HZ2	1:F:673:ALA:HB2	1.72	0.48
1:G:942:THR:HG21	4:P:29:THR:HB	1.95	0.48
1:J:428:VAL:HG13	1:J:438:TRP:HB3	1.95	0.48
1:L:278:ASN:C	1:L:280:THR:N	2.65	0.48
1:B:240:THR:CG2	1:B:249:LEU:HD11	2.41	0.48
1:A:68:ILE:CD1	1:E:73:GLU:CA	2.90	0.48
1:G:24:SER:OG	1:I:638:ASN:ND2	2.46	0.48
1:I:19:ALA:O	1:I:23:LEU:HG	2.13	0.48
1:J:521:ALA:CA	1:K:551:ASN:HB3	2.43	0.48
5:Q:100:LEU:CD1	5:Q:104:LEU:HD21	2.43	0.48
1:B:521:ALA:CA	1:C:551:ASN:HB3	2.43	0.48
1:J:246:GLN:CD	1:J:290:VAL:HG11	2.33	0.48
1:A:30:PHE:CE1	1:A:34:THR:HG21	2.48	0.48
1:J:30:PHE:CE1	1:J:34:THR:HG21	2.48	0.48
1:D:779:GLY:CA	1:E:96:ALA:O	2.59	0.48
1:G:519:LEU:CD1	1:H:119:ALA:HB2	2.41	0.48
1:A:278:ASN:C	1:A:280:THR:N	2.64	0.48
1:A:326:ILE:HA	1:A:593:GLN:O	2.14	0.48
1:G:326:ILE:HA	1:G:593:GLN:O	2.14	0.48
1:A:352:SER:C	1:A:354:LEU:H	2.15	0.48
1:L:6:MET:N	1:L:7:PRO:HD2	2.28	0.48
1:J:660:THR:CA	5:R:130:ALA:HB1	2.43	0.48
1:F:355:ASN:ND2	1:F:357:VAL:H	2.10	0.48
1:G:670:ASN:H	4:P:10:MET:HE3	1.75	0.48
1:G:566:PHE:CE1	1:G:925:VAL:HG23	2.48	0.48
1:G:944:PHE:O	1:G:945:SER:O	2.30	0.48
1:H:7:PRO:HB2	4:P:47:ILE:O	2.13	0.48
1:G:240:THR:CG2	1:G:249:LEU:HD11	2.41	0.48
1:B:178:ILE:HG13	1:B:217:HIS:HB3	1.95	0.48
1:K:19:ALA:O	1:K:23:LEU:HG	2.13	0.48
1:L:890:ASN:HD22	1:L:892:LEU:HB3	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:685:LYS:HG3	5:S:27:GLN:OE1	2.14	0.48
1:I:566:PHE:CE1	1:I:925:VAL:HG23	2.48	0.48
1:E:188:GLU:HG3	1:E:193:LYS:CG	2.43	0.48
1:K:188:GLU:HG3	1:K:193:LYS:CG	2.43	0.48
1:F:187:VAL:CA	1:F:191:THR:O	2.61	0.48
1:L:187:VAL:CA	1:L:191:THR:O	2.61	0.48
1:K:521:ALA:HB2	1:L:551:ASN:CG	2.33	0.48
1:G:187:VAL:CA	1:G:191:THR:O	2.61	0.48
1:E:246:GLN:CD	1:E:290:VAL:HG11	2.34	0.48
1:H:673:ALA:HB2	1:I:9:TRP:HZ2	1.72	0.48
1:L:87:VAL:O	1:L:87:VAL:HG12	2.11	0.48
3:N:165:VAL:HB	3:N:169:ARG:HH12	1.78	0.48
1:K:17:GLN:OE1	4:P:179:ARG:HG2	2.13	0.48
1:D:35:GLU:OE1	1:D:41:ASN:ND2	2.46	0.48
1:L:35:GLU:OE1	1:L:41:ASN:ND2	2.46	0.48
1:H:326:ILE:HA	1:H:593:GLN:O	2.14	0.48
1:B:326:ILE:HA	1:B:593:GLN:O	2.14	0.48
1:B:788:ASP:OD2	1:C:381:ARG:NH2	2.33	0.48
1:D:409:LEU:HD23	1:E:833:PRO:CB	2.43	0.48
1:J:794:PHE:HE1	1:K:383:PHE:CD2	2.32	0.48
4:O:208:TYR:O	4:O:210:ASP:HB2	2.14	0.48
1:E:240:THR:CG2	1:E:249:LEU:CD1	2.92	0.48
1:C:3:PRO:CD	2:M:115:ASP:HB3	2.44	0.48
1:G:178:ILE:HG13	1:G:217:HIS:HB3	1.95	0.48
1:C:428:VAL:HG13	1:C:438:TRP:HB3	1.96	0.48
1:I:261:VAL:HG12	1:I:262:GLU:N	2.28	0.48
1:F:89:ASP:OD2	1:J:892:LEU:HD11	2.13	0.48
1:E:314:MET:O	1:F:210:TRP:NE1	2.31	0.48
1:L:19:ALA:O	1:L:23:LEU:HG	2.13	0.48
1:C:352:SER:O	1:C:354:LEU:N	2.47	0.48
1:J:463:LEU:HD21	1:K:463:LEU:CD2	2.27	0.48
1:H:566:PHE:CE1	1:H:925:VAL:HG23	2.48	0.48
2:M:46:LEU:O	3:N:106:ASN:CG	2.52	0.48
1:C:850:ILE:N	1:C:854:ALA:HB2	2.29	0.48
1:C:188:GLU:HG3	1:C:193:LYS:CG	2.43	0.48
5:Q:96:ARG:HH22	5:R:136:PRO:HG2	1.78	0.48
1:H:654:PRO:HD2	5:S:16:THR:HB	1.96	0.48
1:L:87:VAL:O	1:L:88:GLY:O	2.30	0.48
1:E:673:ALA:HB2	1:F:9:TRP:HZ2	1.74	0.48
1:F:304:THR:HG22	1:F:306:LYS:N	2.23	0.48
1:K:17:GLN:NE2	4:P:178:PRO:C	2.66	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:558:HIS:HE1	1:C:752:GLY:O	1.97	0.48
1:G:879:MET:CE	1:I:37:TYR:HA	2.43	0.48
1:L:30:PHE:CE1	1:L:34:THR:HG21	2.48	0.48
1:A:891:LEU:HB3	1:A:895:ASN:HD21	1.78	0.48
1:A:13:HIS:CE1	1:A:22:TYR:CZ	3.00	0.48
1:K:893:TYR:C	1:K:895:ASN:N	2.66	0.48
1:C:892:LEU:CG	1:E:949:ALA:O	2.62	0.48
1:G:430:PRO:CG	1:I:180:LYS:HE3	2.44	0.48
1:A:178:ILE:HG13	1:A:217:HIS:HB3	1.95	0.48
1:H:178:ILE:HG13	1:H:217:HIS:HB3	1.95	0.48
1:C:948:ASN:O	1:K:358:VAL:HA	2.14	0.48
1:F:178:ILE:HG13	1:F:217:HIS:HB3	1.95	0.48
1:B:566:PHE:CE1	1:B:925:VAL:HG23	2.48	0.48
1:K:633:LEU:CD2	1:L:27:LEU:HD21	2.44	0.48
1:I:859:THR:O	5:T:51:THR:HA	2.14	0.48
1:I:19:ALA:CB	1:I:23:LEU:HD11	2.41	0.48
1:H:463:LEU:CD1	1:I:463:LEU:CD2	2.85	0.48
1:L:566:PHE:CE1	1:L:925:VAL:HG23	2.48	0.48
1:B:264:GLN:O	1:B:266:PHE:CD1	2.66	0.48
1:E:566:PHE:CE1	1:E:925:VAL:HG23	2.48	0.48
5:T:113:GLU:O	5:T:117:VAL:HG23	2.14	0.48
1:F:268:THR:CG2	1:F:268:THR:O	2.60	0.48
1:J:246:GLN:CG	1:J:290:VAL:CG1	2.85	0.48
1:G:841:TYR:CG	1:G:842:PRO:HD2	2.49	0.48
1:G:43:LYS:O	1:I:640:GLN:HB3	2.13	0.48
1:F:637:THR:HG21	4:P:200:PRO:HG3	1.96	0.48
1:D:822:HIS:HB3	1:E:204:GLN:HG2	1.96	0.48
4:P:82:GLU:C	4:P:84:PRO:HD3	2.34	0.48
1:C:326:ILE:HA	1:C:593:GLN:O	2.14	0.48
2:M:283:ILE:HD12	2:M:403:TYR:HB3	1.95	0.48
1:A:6:MET:C	1:A:8:GLN:N	2.66	0.48
3:N:194:GLN:HA	4:O:207:HIS:HA	1.95	0.48
1:C:874:PHE:CZ	1:C:893:TYR:OH	2.65	0.48
1:F:430:PRO:O	1:F:431:LYS:HB2	2.13	0.48
1:F:261:VAL:HG12	1:F:262:GLU:N	2.28	0.48
1:K:566:PHE:CE1	1:K:925:VAL:HG23	2.48	0.48
1:C:240:THR:CG2	1:C:249:LEU:CD1	2.92	0.48
1:F:5:MET:O	1:F:6:MET:CG	2.62	0.48
1:F:58:ASP:O	1:K:60:SER:CB	2.61	0.48
1:A:70:VAL:CG2	1:E:70:VAL:O	2.62	0.48
1:B:673:ALA:HB3	1:B:943:PRO:HD3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:314:MET:O	1:H:210:TRP:NE1	2.33	0.48
1:C:89:ASP:OD1	1:C:932:ARG:NH1	2.47	0.48
1:K:178:ILE:HG22	1:K:281:PRO:HG3	1.96	0.48
1:A:850:ILE:N	1:A:854:ALA:HB2	2.29	0.48
1:J:187:VAL:CA	1:J:191:THR:O	2.61	0.48
1:C:178:ILE:HG21	1:C:281:PRO:CG	2.44	0.48
1:I:850:ILE:N	1:I:854:ALA:HB2	2.29	0.48
1:E:850:ILE:N	1:E:854:ALA:HB2	2.29	0.48
1:H:696:PRO:O	5:S:31:GLY:CA	2.62	0.48
1:B:850:ILE:N	1:B:854:ALA:HB2	2.29	0.48
1:D:850:ILE:N	1:D:854:ALA:HB2	2.29	0.48
1:J:279:LEU:HB3	1:K:438:TRP:HB2	1.95	0.48
1:F:353:GLN:CG	1:G:651:MET:CE	2.86	0.48
2:M:79:VAL:HG11	2:M:82:LEU:HD12	1.96	0.48
1:B:841:TYR:CG	1:B:842:PRO:HD2	2.49	0.48
1:F:66:ARG:HD2	1:F:615:TYR:CZ	2.49	0.48
1:F:754:ASN:ND2	1:F:759:ASN:HA	2.29	0.48
1:B:822:HIS:HB3	1:C:204:GLN:HG2	1.96	0.48
1:E:35:GLU:OE1	1:E:41:ASN:ND2	2.46	0.48
1:D:43:LYS:HA	1:F:642:PHE:CE2	2.49	0.48
1:J:841:TYR:CG	1:J:842:PRO:HD2	2.49	0.48
1:E:841:TYR:CG	1:E:842:PRO:HD2	2.49	0.48
1:J:326:ILE:HA	1:J:593:GLN:O	2.14	0.48
1:I:326:ILE:HA	1:I:593:GLN:O	2.14	0.48
1:L:89:ASP:OD1	1:L:932:ARG:NH1	2.47	0.48
1:A:799:PRO:HG3	1:B:384:SER:OG	2.14	0.48
1:B:89:ASP:OD1	1:B:932:ARG:NH1	2.47	0.48
1:E:942:THR:HA	1:E:943:PRO:C	2.33	0.48
1:A:27:LEU:CD2	1:C:633:LEU:HD23	2.43	0.48
1:C:628:THR:HG21	4:O:208:TYR:HE2	1.77	0.48
1:G:945:SER:N	4:P:28:SER:O	2.46	0.48
1:A:180:LYS:HD3	1:B:430:PRO:CG	2.42	0.48
1:C:261:VAL:HG12	1:C:262:GLU:N	2.29	0.48
1:D:430:PRO:O	1:D:431:LYS:HB2	2.14	0.48
1:J:737:LEU:HB2	1:J:753:TYR:HE2	1.73	0.48
1:D:19:ALA:O	1:D:23:LEU:HG	2.13	0.48
5:Q:111:THR:CG2	5:T:110:LEU:HG	2.39	0.48
1:I:5:MET:O	1:I:6:MET:CG	2.62	0.48
1:J:633:LEU:HD23	1:K:27:LEU:CD2	2.43	0.48
1:H:638:ASN:ND2	1:I:24:SER:CB	2.74	0.48
1:I:24:SER:OG	1:I:27:LEU:HB2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:850:ILE:N	1:G:854:ALA:HB2	2.29	0.48
1:H:850:ILE:N	1:H:854:ALA:HB2	2.29	0.48
1:A:839:GLN:HA	1:B:170:GLN:OE1	2.14	0.48
1:J:519:LEU:HD13	1:K:115:TYR:CZ	2.49	0.48
1:B:778:GLN:HG2	1:C:94:ASP:CB	2.44	0.48
1:K:735:ARG:HA	1:L:62:ARG:HA	1.96	0.48
1:F:30:PHE:CE1	1:F:34:THR:HG21	2.48	0.48
1:G:519:LEU:HD13	1:H:115:TYR:CZ	2.49	0.48
1:J:35:GLU:OE1	1:J:41:ASN:ND2	2.46	0.48
1:G:383:PHE:CD2	1:I:794:PHE:HE1	2.32	0.48
1:J:116:SER:O	1:L:404:GLY:HA3	2.13	0.48
1:L:718:LYS:HB2	1:L:718:LYS:NZ	2.29	0.48
1:H:579:THR:HG23	1:H:579:THR:O	2.14	0.48
1:C:631:ALA:HB2	4:O:213:ILE:CG1	2.40	0.47
1:F:349:GLY:HA2	1:F:578:TYR:CD2	2.49	0.47
1:G:638:ASN:CG	1:H:24:SER:HG	2.16	0.47
1:G:725:ASP:O	4:P:15:PRO:CD	2.61	0.47
1:K:671:TRP:HD1	1:K:898:HIS:CE1	2.30	0.47
1:E:922:PHE:O	1:E:941:ARG:HA	2.14	0.47
1:L:754:ASN:ND2	1:L:759:ASN:HA	2.29	0.47
1:C:3:PRO:HB3	2:M:115:ASP:HB3	1.85	0.47
1:G:240:THR:CG2	1:G:249:LEU:CD1	2.92	0.47
1:C:340:SER:O	1:C:341:THR:C	2.52	0.47
1:F:183:ILE:CG2	1:F:284:VAL:HB	2.44	0.47
3:N:24:THR:O	3:N:24:THR:HG22	2.14	0.47
1:K:240:THR:CG2	1:K:249:LEU:HD11	2.41	0.47
1:I:719:LYS:HZ2	5:T:22:TRP:CB	2.26	0.47
1:D:721:ALA:HB2	5:R:22:TRP:HZ2	1.79	0.47
1:K:24:SER:OG	1:K:27:LEU:HB2	2.14	0.47
1:G:556:PRO:HG3	5:T:52:VAL:CG2	2.18	0.47
1:G:876:SER:CB	1:H:56:THR:HG21	2.19	0.47
1:K:841:TYR:CG	1:K:842:PRO:HD2	2.49	0.47
1:L:66:ARG:HD2	1:L:615:TYR:CZ	2.49	0.47
1:J:754:ASN:ND2	1:J:759:ASN:HA	2.29	0.47
1:G:754:ASN:ND2	1:G:759:ASN:HA	2.29	0.47
1:I:30:PHE:CE1	1:I:34:THR:HG21	2.48	0.47
1:B:35:GLU:OE1	1:B:41:ASN:ND2	2.46	0.47
1:D:539:ASN:ND2	1:D:539:ASN:C	2.68	0.47
1:K:828:VAL:CG1	1:K:829:GLY:N	2.76	0.47
1:L:891:LEU:HB3	1:L:895:ASN:HD21	1.78	0.47
1:C:891:LEU:HB3	1:C:895:ASN:HD21	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:404:GLY:HA3	1:L:116:SER:O	2.14	0.47
1:L:579:THR:O	1:L:579:THR:HG23	2.14	0.47
1:G:386:TRP:NE1	1:I:780:PHE:O	2.36	0.47
1:I:89:ASP:OD1	1:I:932:ARG:NH1	2.47	0.47
1:J:654:PRO:HG3	5:Q:84:PRO:HD2	1.96	0.47
1:K:362:ASP:CB	1:K:941:ARG:HH22	2.17	0.47
1:G:669:ARG:O	1:G:671:TRP:CD1	2.66	0.47
1:G:725:ASP:CB	4:P:15:PRO:HD3	2.39	0.47
1:A:257:LEU:CA	1:A:258:GLU:C	2.83	0.47
1:H:261:VAL:HG12	1:H:262:GLU:N	2.28	0.47
1:G:281:PRO:CD	1:H:438:TRP:CH2	2.97	0.47
1:D:257:LEU:CA	1:D:258:GLU:C	2.83	0.47
1:J:942:THR:HG22	1:J:945:SER:OG	2.14	0.47
1:J:947:GLY:N	1:J:949:ALA:HB2	2.24	0.47
1:G:734:ASP:O	1:H:62:ARG:CA	2.62	0.47
1:D:24:SER:OG	1:F:638:ASN:ND2	2.47	0.47
1:C:739:PRO:HD2	1:E:341:THR:C	2.34	0.47
1:J:5:MET:O	1:J:6:MET:CG	2.62	0.47
1:D:463:LEU:HD21	1:E:463:LEU:CD2	2.31	0.47
1:F:850:ILE:N	1:F:854:ALA:HB2	2.29	0.47
5:Q:55:THR:H	5:Q:56:PRO:HD3	1.76	0.47
1:K:187:VAL:CA	1:K:191:THR:O	2.61	0.47
1:K:850:ILE:N	1:K:854:ALA:HB2	2.29	0.47
1:J:850:ILE:N	1:J:854:ALA:HB2	2.29	0.47
1:B:574:LEU:HG	1:B:929:ARG:NE	2.25	0.47
1:J:204:GLN:HG2	1:L:822:HIS:HB3	1.95	0.47
1:E:754:ASN:ND2	1:E:759:ASN:HA	2.29	0.47
1:C:692:SER:HB3	1:K:76:ALA:CB	2.41	0.47
1:D:30:PHE:CE1	1:D:34:THR:HG21	2.48	0.47
1:B:539:ASN:ND2	1:B:539:ASN:C	2.68	0.47
3:N:206:LYS:O	3:N:208:LEU:N	2.46	0.47
1:D:579:THR:HG23	1:D:579:THR:O	2.14	0.47
1:H:718:LYS:NZ	1:H:718:LYS:HB2	2.29	0.47
1:G:407:ASP:O	1:H:126:LYS:HE2	2.14	0.47
3:N:120:ASP:O	3:N:124:ALA:HB2	2.14	0.47
1:J:632:MET:HG3	4:P:171:LEU:HD13	1.95	0.47
1:K:940:LEU:CD2	4:O:31:ILE:HG12	2.45	0.47
1:H:19:ALA:CB	1:H:23:LEU:HD11	2.40	0.47
1:C:3:PRO:CB	2:M:115:ASP:OD2	2.45	0.47
1:H:68:ILE:CG2	1:J:82:ARG:CZ	2.93	0.47
1:G:24:SER:OG	1:G:27:LEU:HB2	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:670:ASN:HD22	1:K:353:GLN:HB3	1.72	0.47
1:A:566:PHE:CE1	1:A:925:VAL:HG23	2.48	0.47
1:E:165:THR:O	1:F:445:PHE:CA	2.55	0.47
1:H:285:LEU:HD11	1:I:451:ILE:CD1	2.41	0.47
1:D:566:PHE:CE1	1:D:925:VAL:HG23	2.48	0.47
1:E:283:VAL:HG21	1:F:453:VAL:CG2	2.41	0.47
1:B:853:THR:CB	1:C:295:PRO:HB3	2.44	0.47
1:A:63:LEU:HD21	1:C:777:TYR:OH	2.15	0.47
1:G:188:GLU:HG3	1:G:193:LYS:CG	2.43	0.47
1:H:659:ALA:HB2	5:S:11:VAL:HG11	1.97	0.47
1:I:890:ASN:HD22	1:I:892:LEU:HB3	1.78	0.47
1:D:841:TYR:CG	1:D:842:PRO:HD2	2.49	0.47
1:A:430:PRO:HG3	1:C:180:LYS:HD3	1.96	0.47
1:G:40:LEU:HD22	1:I:572:LEU:HD22	1.95	0.47
1:I:278:ASN:C	1:I:280:THR:N	2.65	0.47
1:D:754:ASN:ND2	1:D:759:ASN:HA	2.29	0.47
1:H:304:THR:HG22	1:H:306:LYS:N	2.23	0.47
1:C:304:THR:HG22	1:C:306:LYS:N	2.23	0.47
1:G:30:PHE:CE1	1:G:34:THR:HG21	2.48	0.47
1:E:30:PHE:CE1	1:E:34:THR:HG21	2.48	0.47
1:K:827:PHE:CE2	1:L:124:ALA:CB	2.96	0.47
4:O:82:GLU:C	4:O:84:PRO:HD3	2.34	0.47
1:F:718:LYS:NZ	1:F:718:LYS:HB2	2.30	0.47
1:J:641:SER:OG	1:K:45:ARG:HB3	2.14	0.47
1:G:385:MET:HA	1:I:756:ALA:HA	1.96	0.47
3:N:236:LEU:HA	3:N:239:ILE:HG22	1.96	0.47
1:D:404:GLY:HA3	1:E:116:SER:O	2.14	0.47
1:F:667:PRO:HB3	1:G:70:VAL:CB	2.43	0.47
1:G:670:ASN:N	4:P:10:MET:HE3	2.26	0.47
1:H:9:TRP:HB3	1:H:14:ILE:HB	1.96	0.47
1:E:180:LYS:HD3	1:F:430:PRO:HG3	1.96	0.47
1:F:257:LEU:CA	1:F:258:GLU:C	2.82	0.47
1:D:261:VAL:HG12	1:D:262:GLU:N	2.29	0.47
1:H:66:ARG:HD2	1:H:615:TYR:CZ	2.49	0.47
1:C:268:THR:CG2	1:C:268:THR:O	2.59	0.47
5:Q:104:LEU:HD12	5:T:103:LEU:CB	2.44	0.47
4:O:27:TYR:O	4:O:27:TYR:CD1	2.68	0.47
1:J:853:THR:CG2	1:K:293:GLU:OE1	2.57	0.47
1:D:890:ASN:HD22	1:D:892:LEU:HB3	1.78	0.47
1:H:841:TYR:CG	1:H:842:PRO:HD2	2.49	0.47
1:E:246:GLN:CG	1:E:290:VAL:CG1	2.86	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:574:LEU:HG	1:H:929:ARG:NE	2.25	0.47
1:F:737:LEU:HB2	1:F:753:TYR:HE2	1.73	0.47
1:C:30:PHE:CE1	1:C:34:THR:HG21	2.48	0.47
1:E:539:ASN:ND2	1:E:539:ASN:C	2.67	0.47
1:D:636:ASP:O	1:D:926:ARG:NH1	2.47	0.47
1:I:579:THR:O	1:I:579:THR:HG23	2.14	0.47
1:K:799:PRO:HG3	1:L:384:SER:CB	2.45	0.47
1:I:718:LYS:NZ	1:I:718:LYS:HB2	2.29	0.47
1:G:89:ASP:OD1	1:G:932:ARG:NH1	2.47	0.47
1:G:659:ALA:HA	5:Q:86:ALA:HB1	1.96	0.47
1:G:945:SER:H	4:P:28:SER:CA	2.27	0.47
4:P:208:TYR:O	4:P:210:ASP:HB2	2.14	0.47
1:B:257:LEU:CA	1:B:258:GLU:C	2.83	0.47
1:H:240:THR:CG2	1:H:249:LEU:CD1	2.92	0.47
1:F:89:ASP:OD1	1:F:932:ARG:NH1	2.47	0.47
1:E:66:ARG:HD2	1:E:615:TYR:CZ	2.49	0.47
1:A:246:GLN:HE22	1:C:844:ASN:HA	1.74	0.47
1:K:183:ILE:CG2	1:K:284:VAL:HB	2.44	0.47
1:J:929:ARG:NH1	1:J:929:ARG:CG	2.73	0.47
2:M:497:ASN:ND2	2:M:500:PRO:HB3	2.25	0.47
1:I:891:LEU:HB3	1:I:895:ASN:HD21	1.78	0.47
2:M:72:VAL:HG22	2:M:73:ASP:H	1.80	0.47
1:F:891:LEU:HB3	1:F:895:ASN:HD21	1.79	0.47
1:E:891:LEU:HB3	1:E:895:ASN:HD21	1.79	0.47
1:B:636:ASP:O	1:B:926:ARG:NH1	2.47	0.47
1:K:326:ILE:HA	1:K:593:GLN:O	2.14	0.47
1:F:326:ILE:HA	1:F:593:GLN:O	2.14	0.47
1:J:799:PRO:HG3	1:K:384:SER:CB	2.44	0.47
1:E:718:LYS:HB2	1:E:718:LYS:NZ	2.29	0.47
1:B:718:LYS:HB2	1:B:718:LYS:NZ	2.29	0.47
1:C:718:LYS:NZ	1:C:718:LYS:HB2	2.29	0.47
1:H:756:ALA:HA	1:I:385:MET:HA	1.95	0.47
1:A:240:THR:CG2	1:A:249:LEU:CD1	2.91	0.47
1:C:257:LEU:CA	1:C:258:GLU:C	2.83	0.47
1:D:432:THR:HG22	1:D:439:GLU:HG3	1.84	0.47
1:K:725:ASP:CG	4:O:13:TYR:O	2.52	0.47
1:K:264:GLN:O	1:K:266:PHE:CD1	2.67	0.47
1:L:850:ILE:N	1:L:854:ALA:HB2	2.29	0.47
1:G:188:GLU:HG3	1:G:193:LYS:HD3	1.97	0.47
1:C:66:ARG:HD2	1:C:615:TYR:CZ	2.49	0.47
1:J:400:ILE:CD1	1:J:476:ILE:CD1	2.90	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:246:GLN:CD	1:C:290:VAL:HG11	2.34	0.47
1:A:841:TYR:CG	1:A:842:PRO:HD2	2.49	0.47
1:D:66:ARG:HD2	1:D:615:TYR:CZ	2.49	0.47
1:D:267:SER:O	1:E:425:LEU:HB3	2.15	0.47
1:A:754:ASN:ND2	1:A:759:ASN:HA	2.29	0.47
1:H:754:ASN:ND2	1:H:759:ASN:HA	2.29	0.47
1:J:539:ASN:ND2	1:J:539:ASN:C	2.68	0.47
1:D:326:ILE:HA	1:D:593:GLN:O	2.14	0.47
1:H:570:ASN:HB3	1:I:42:ASN:ND2	2.30	0.47
1:J:799:PRO:HG3	1:K:384:SER:OG	2.14	0.47
1:D:718:LYS:HB2	1:D:718:LYS:NZ	2.29	0.47
1:C:841:TYR:CG	1:C:842:PRO:HD2	2.49	0.47
1:H:89:ASP:OD1	1:H:932:ARG:NH1	2.47	0.47
1:K:464:ASN:HD21	1:L:467:LEU:CD2	2.27	0.47
1:D:89:ASP:OD1	1:D:932:ARG:NH1	2.47	0.47
1:J:89:ASP:OD1	1:J:932:ARG:NH1	2.47	0.47
1:H:8:GLN:CG	4:P:31:ILE:HD12	2.37	0.47
1:C:893:TYR:CE1	1:E:950:THR:HG23	2.50	0.47
5:Q:49:TYR:O	5:Q:49:TYR:HD1	1.94	0.47
1:J:438:TRP:CH2	1:L:281:PRO:CD	2.98	0.47
1:A:178:ILE:HG22	1:A:281:PRO:HG3	1.97	0.47
1:H:428:VAL:HG13	1:H:438:TRP:HB3	1.96	0.47
1:F:240:THR:CG2	1:F:249:LEU:HD11	2.41	0.47
1:E:430:PRO:O	1:E:431:LYS:HB2	2.14	0.47
1:C:257:LEU:CD2	1:C:259:SER:HB3	2.45	0.47
1:B:183:ILE:CG2	1:B:284:VAL:HB	2.45	0.47
1:L:240:THR:CG2	1:L:249:LEU:HD11	2.41	0.47
1:D:257:LEU:CD2	1:D:259:SER:HB3	2.45	0.47
1:K:694:TYR:CE1	1:K:695:ASP:O	2.68	0.47
1:J:762:LYS:HE2	1:K:615:TYR:CD2	2.49	0.47
1:K:89:ASP:OD1	1:K:932:ARG:NH1	2.47	0.47
1:K:257:LEU:CA	1:K:258:GLU:C	2.83	0.47
1:D:737:LEU:CA	1:E:62:ARG:NH2	2.58	0.47
1:E:5:MET:O	1:E:6:MET:CG	2.62	0.47
1:H:684:THR:HG23	5:S:26:ARG:HB2	1.95	0.47
1:H:463:LEU:CD2	1:I:463:LEU:HD21	2.30	0.47
1:B:890:ASN:ND2	1:B:891:LEU:HD22	2.30	0.47
1:K:178:ILE:HG13	1:K:217:HIS:HB3	1.95	0.47
1:L:444:GLU:CG	1:L:445:PHE:O	2.63	0.47
1:E:188:GLU:HG3	1:E:193:LYS:HD3	1.97	0.47
1:H:187:VAL:HA	1:H:193:LYS:H	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:184:GLN:NE2	1:J:187:VAL:CG1	2.78	0.47
1:L:187:VAL:HA	1:L:193:LYS:H	1.80	0.47
1:L:184:GLN:NE2	1:L:187:VAL:CG1	2.78	0.47
5:Q:104:LEU:CD1	5:T:103:LEU:HB3	2.44	0.47
1:C:400:ILE:CD1	1:C:476:ILE:CD1	2.89	0.47
1:G:842:PRO:CG	1:H:246:GLN:HE22	2.23	0.47
1:I:574:LEU:HG	1:I:929:ARG:NE	2.24	0.47
1:D:56:THR:HG22	1:D:57:THR:N	2.30	0.47
1:E:56:THR:HG22	1:E:57:THR:N	2.30	0.47
1:B:754:ASN:ND2	1:B:759:ASN:HA	2.29	0.47
1:C:754:ASN:ND2	1:C:759:ASN:HA	2.29	0.47
1:E:779:GLY:CA	1:F:96:ALA:O	2.61	0.47
1:A:877:ASN:ND2	1:B:619:PHE:CZ	2.82	0.47
1:K:34:THR:C	1:K:36:THR:N	2.64	0.47
1:J:121:ASN:OD1	1:L:824:ASN:N	2.29	0.47
1:A:824:ASN:CG	1:B:121:ASN:HA	2.35	0.47
1:J:824:ASN:CG	1:K:121:ASN:HA	2.34	0.47
1:E:326:ILE:HA	1:E:593:GLN:O	2.14	0.47
1:K:799:PRO:HG3	1:L:384:SER:OG	2.15	0.47
1:K:718:LYS:HB2	1:K:718:LYS:NZ	2.29	0.47
1:J:780:PHE:HB2	1:K:386:TRP:CZ2	2.49	0.47
1:B:579:THR:HG23	1:B:579:THR:O	2.14	0.47
1:E:89:ASP:OD1	1:E:932:ARG:NH1	2.47	0.47
1:A:718:LYS:HB2	1:A:718:LYS:NZ	2.29	0.47
3:N:118:VAL:O	3:N:122:ARG:HG3	2.15	0.47
1:J:50:ALA:O	1:L:889:GLN:OE1	2.33	0.47
1:E:814:GLN:HG3	1:F:239:PRO:O	2.15	0.47
1:K:948:ASN:CG	4:O:33:TYR:CD2	2.88	0.47
1:G:942:THR:CG2	4:P:29:THR:CA	2.93	0.47
1:H:257:LEU:CA	1:H:258:GLU:C	2.83	0.47
1:F:240:THR:CG2	1:F:249:LEU:CD1	2.91	0.47
1:D:178:ILE:HG13	1:D:217:HIS:HB3	1.95	0.47
1:C:358:VAL:HG13	1:K:341:THR:CB	2.44	0.47
1:C:950:THR:OG1	1:K:360:LEU:CD2	2.62	0.47
1:D:240:THR:CG2	1:D:249:LEU:CD1	2.91	0.47
1:J:240:THR:CG2	1:J:249:LEU:CD1	2.92	0.47
1:J:892:LEU:N	1:J:895:ASN:OD1	2.47	0.47
1:K:257:LEU:CD2	1:K:259:SER:HB3	2.45	0.47
1:K:261:VAL:HG12	1:K:262:GLU:N	2.29	0.47
1:A:62:ARG:CD	1:A:64:THR:O	2.63	0.47
1:L:22:TYR:HE1	1:L:23:LEU:CD2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:187:VAL:HA	1:C:193:LYS:H	1.80	0.47
5:Q:104:LEU:CD2	5:Q:104:LEU:N	2.78	0.47
1:I:184:GLN:NE2	1:I:187:VAL:CG1	2.78	0.47
1:E:400:ILE:CD1	1:E:476:ILE:CD1	2.90	0.47
1:L:218:ALA:O	1:L:283:VAL:HA	2.15	0.47
1:F:890:ASN:HD22	1:F:892:LEU:HB3	1.78	0.47
1:D:25:PRO:HB2	4:P:203:GLY:H	1.80	0.47
1:L:841:TYR:CG	1:L:842:PRO:HD2	2.49	0.47
1:B:66:ARG:HD2	1:B:615:TYR:CZ	2.49	0.47
1:D:56:THR:OG1	1:F:876:SER:OG	2.22	0.47
1:G:425:LEU:CD2	1:I:267:SER:O	2.58	0.47
1:F:895:ASN:O	1:G:351:ALA:HB1	2.14	0.47
1:D:168:PHE:HA	1:E:450:GLU:O	2.15	0.47
1:G:579:THR:HG23	1:G:579:THR:O	2.14	0.47
1:D:7:PRO:CB	4:P:41:ILE:CD1	2.76	0.47
1:G:666:ILE:HB	1:G:900:LEU:HB3	1.97	0.47
1:G:638:ASN:CG	1:H:24:SER:OG	2.53	0.47
3:N:290:THR:HG21	4:O:190:GLU:HG2	1.97	0.47
1:E:248:ILE:CG2	1:E:249:LEU:H	2.05	0.47
1:L:183:ILE:CG2	1:L:284:VAL:HB	2.45	0.47
1:B:261:VAL:HG12	1:B:262:GLU:N	2.30	0.47
1:H:257:LEU:CD2	1:H:259:SER:HB3	2.45	0.47
1:J:257:LEU:CA	1:J:258:GLU:C	2.83	0.47
1:J:884:LEU:O	1:K:50:ALA:HB3	2.15	0.47
1:J:891:LEU:O	1:J:892:LEU:C	2.53	0.47
4:P:74:TRP:CZ3	4:P:183:ILE:HD11	2.50	0.47
4:P:22:GLY:HA3	4:P:214:PRO:HA	1.96	0.47
1:G:734:ASP:OD2	1:J:354:LEU:HG	2.15	0.47
1:B:938:VAL:O	1:C:12:MET:CE	2.63	0.47
1:G:23:LEU:O	1:G:24:SER:C	2.53	0.47
1:B:314:MET:O	1:C:210:TRP:NE1	2.29	0.47
1:J:23:LEU:O	1:J:24:SER:C	2.53	0.47
1:I:23:LEU:O	1:I:24:SER:C	2.53	0.47
1:C:579:THR:O	1:C:579:THR:HG23	2.14	0.47
1:E:858:ILE:HD11	5:Q:112:ARG:HE	1.80	0.47
1:J:444:GLU:CG	1:J:445:PHE:O	2.63	0.47
1:H:661:ASN:CG	5:S:12:SER:HB3	2.34	0.47
1:H:56:THR:HG22	1:H:57:THR:N	2.30	0.47
1:I:178:ILE:HG13	1:I:217:HIS:HB3	1.95	0.47
1:F:184:GLN:NE2	1:F:187:VAL:CG1	2.78	0.47
1:L:56:THR:HG22	1:L:57:THR:N	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:400:ILE:CD1	1:L:476:ILE:CD1	2.90	0.47
1:H:890:ASN:HD22	1:H:892:LEU:HB3	1.78	0.47
1:F:841:TYR:CG	1:F:842:PRO:HD2	2.49	0.47
1:J:752:GLY:N	1:K:103:ARG:NH1	2.63	0.47
1:F:362:ASP:CB	1:F:941:ARG:HH22	2.17	0.47
1:A:673:ALA:HB2	1:B:9:TRP:HZ2	1.75	0.47
4:O:74:TRP:CZ3	4:O:183:ILE:HD11	2.50	0.47
1:D:96:ALA:O	1:F:779:GLY:CA	2.63	0.47
1:F:680:THR:CG2	1:F:714:ASN:OD1	2.63	0.47
1:D:213:THR:O	1:D:213:THR:CG2	2.63	0.47
1:A:579:THR:O	1:A:579:THR:HG23	2.14	0.47
1:D:814:GLN:HG3	1:E:239:PRO:O	2.15	0.47
1:J:718:LYS:NZ	1:J:718:LYS:HB2	2.29	0.47
1:H:22:TYR:HE1	1:H:23:LEU:HD21	1.67	0.47
1:F:251:LYS:CB	1:F:252:GLN:CA	2.56	0.47
1:L:257:LEU:CA	1:L:258:GLU:C	2.83	0.47
1:J:261:VAL:HG12	1:J:262:GLU:N	2.28	0.47
1:D:23:LEU:O	1:D:24:SER:C	2.53	0.47
1:I:23:LEU:HD11	1:I:44:PHE:CB	2.45	0.47
1:H:685:LYS:CG	5:S:27:GLN:NE2	2.50	0.47
1:F:56:THR:HG22	1:F:57:THR:N	2.30	0.47
1:E:874:PHE:CZ	1:E:893:TYR:OH	2.65	0.47
1:G:66:ARG:HD2	1:G:615:TYR:CZ	2.49	0.47
1:I:774:ASN:HD21	1:I:880:SER:N	1.95	0.47
1:G:774:ASN:HD21	1:G:880:SER:N	1.95	0.47
1:K:428:VAL:HG13	1:K:438:TRP:HB3	1.96	0.47
1:H:267:SER:O	1:I:425:LEU:HB3	2.14	0.47
1:I:841:TYR:CG	1:I:842:PRO:HD2	2.49	0.47
1:G:574:LEU:HG	1:G:929:ARG:NE	2.24	0.47
3:N:147:LEU:HD11	3:N:169:ARG:NE	2.29	0.47
1:J:56:THR:HG22	1:J:57:THR:N	2.30	0.47
1:H:680:THR:CG2	1:H:714:ASN:OD1	2.63	0.47
1:K:35:GLU:OE1	1:K:41:ASN:ND2	2.46	0.47
1:B:213:THR:O	1:B:213:THR:CG2	2.63	0.47
1:B:889:GLN:CD	1:C:52:THR:CG2	2.83	0.47
1:J:385:MET:HA	1:L:756:ALA:HA	1.97	0.47
1:B:404:GLY:HA3	1:C:116:SER:O	2.15	0.47
3:N:194:GLN:CA	4:O:207:HIS:HA	2.45	0.46
1:G:898:HIS:N	1:G:898:HIS:ND1	2.63	0.46
1:L:759:ASN:HB3	5:Q:50:GLU:CD	2.30	0.46
1:G:261:VAL:HG12	1:G:262:GLU:N	2.28	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:257:LEU:CA	1:I:258:GLU:C	2.83	0.46
1:J:257:LEU:CD2	1:J:259:SER:HB3	2.45	0.46
1:K:6:MET:H	4:P:184:GLY:HA3	1.79	0.46
3:N:27:TRP:CZ3	3:N:31:MET:CG	2.99	0.46
1:B:940:LEU:HD23	1:C:12:MET:HG3	1.97	0.46
1:I:721:ALA:HB2	5:T:22:TRP:HZ2	1.80	0.46
1:G:23:LEU:HD11	1:G:44:PHE:CB	2.45	0.46
1:K:23:LEU:HD11	1:K:44:PHE:CB	2.45	0.46
1:B:23:LEU:O	1:B:24:SER:C	2.53	0.46
1:C:88:GLY:CA	4:O:226:TYR:CE1	2.97	0.46
1:F:444:GLU:CG	1:F:445:PHE:O	2.63	0.46
1:A:444:GLU:CG	1:A:445:PHE:O	2.63	0.46
1:H:184:GLN:NE2	1:H:187:VAL:CG1	2.78	0.46
1:D:63:LEU:HD21	1:F:777:TYR:OH	2.14	0.46
1:H:246:GLN:CD	1:H:290:VAL:HG11	2.34	0.46
1:L:362:ASP:CB	1:L:941:ARG:HH22	2.17	0.46
1:G:428:VAL:CG1	1:G:438:TRP:HB3	2.45	0.46
1:C:899:ALA:HB2	1:E:667:PRO:HB2	1.94	0.46
1:H:519:LEU:HD13	1:I:115:TYR:CE1	2.51	0.46
1:E:519:LEU:HD13	1:F:115:TYR:CE1	2.51	0.46
1:D:891:LEU:HB3	1:D:895:ASN:HD21	1.79	0.46
1:E:579:THR:HG23	1:E:579:THR:O	2.14	0.46
1:A:19:ALA:CB	1:A:23:LEU:HD11	2.40	0.46
1:A:23:LEU:O	1:A:24:SER:C	2.53	0.46
4:O:33:TYR:C	4:O:33:TYR:HD2	2.17	0.46
1:F:948:ASN:HB2	1:G:358:VAL:HG22	1.96	0.46
1:G:928:HIS:ND1	4:P:39:HIS:HB3	2.28	0.46
1:E:257:LEU:CA	1:E:258:GLU:C	2.83	0.46
1:A:261:VAL:HG12	1:A:262:GLU:N	2.29	0.46
1:J:891:LEU:C	1:J:893:TYR:N	2.68	0.46
1:J:66:ARG:HD2	1:J:615:TYR:CZ	2.49	0.46
1:J:62:ARG:CZ	1:L:737:LEU:HA	2.46	0.46
1:D:23:LEU:HD11	1:D:44:PHE:CB	2.45	0.46
1:K:23:LEU:O	1:K:24:SER:C	2.53	0.46
1:G:103:ARG:NH1	1:I:752:GLY:N	2.62	0.46
1:B:23:LEU:HD11	1:B:44:PHE:CB	2.45	0.46
1:H:165:THR:HB	1:I:445:PHE:N	2.29	0.46
1:A:184:GLN:NE2	1:A:187:VAL:CG1	2.78	0.46
1:I:187:VAL:HA	1:I:193:LYS:H	1.80	0.46
1:J:218:ALA:O	1:J:283:VAL:HA	2.14	0.46
1:D:521:ALA:CA	1:E:551:ASN:HB3	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:66:ARG:HD2	1:I:615:TYR:CZ	2.49	0.46
1:H:218:ALA:O	1:H:283:VAL:HA	2.15	0.46
1:D:842:PRO:HB3	1:E:235:SER:HB3	1.97	0.46
1:C:574:LEU:HG	1:C:929:ARG:NE	2.25	0.46
1:K:754:ASN:ND2	1:K:759:ASN:HA	2.29	0.46
1:A:570:ASN:HB3	1:B:42:ASN:ND2	2.30	0.46
2:M:98:ASN:O	2:M:99:ASN:CB	2.63	0.46
1:I:539:ASN:C	1:I:539:ASN:ND2	2.68	0.46
1:L:213:THR:CG2	1:L:213:THR:O	2.63	0.46
1:H:213:THR:CG2	1:H:213:THR:O	2.63	0.46
1:G:833:PRO:CB	1:I:409:LEU:HD23	2.45	0.46
1:A:654:PRO:HA	1:A:914:LEU:HD23	1.98	0.46
1:J:579:THR:O	1:J:579:THR:HG23	2.14	0.46
2:M:130:ASN:C	2:M:130:ASN:HD22	2.18	0.46
1:D:654:PRO:HA	1:D:914:LEU:HD23	1.98	0.46
1:F:352:SER:HB2	1:F:934:VAL:HA	1.97	0.46
1:E:257:LEU:CD2	1:E:259:SER:HB3	2.45	0.46
4:O:40:MET:HE2	4:O:40:MET:HB2	1.70	0.46
1:G:257:LEU:CA	1:G:258:GLU:C	2.83	0.46
1:J:734:ASP:O	1:K:62:ARG:HA	2.16	0.46
1:J:950:THR:CB	1:J:951:THR:HG22	2.38	0.46
1:K:7:PRO:O	1:K:9:TRP:N	2.48	0.46
1:B:360:LEU:HD13	2:M:108:THR:CA	2.42	0.46
1:G:5:MET:O	1:G:6:MET:CG	2.62	0.46
1:G:444:GLU:CG	1:G:445:PHE:O	2.64	0.46
1:E:184:GLN:NE2	1:E:187:VAL:CG1	2.78	0.46
1:L:188:GLU:HG3	1:L:193:LYS:HD3	1.97	0.46
1:H:874:PHE:CZ	1:H:893:TYR:OH	2.65	0.46
1:G:56:THR:HG22	1:G:57:THR:N	2.30	0.46
1:C:56:THR:HG22	1:C:57:THR:N	2.30	0.46
1:B:824:ASN:N	1:C:121:ASN:OD1	2.31	0.46
3:N:130:ARG:O	3:N:134:GLN:HG3	2.15	0.46
1:G:718:LYS:HB2	1:G:718:LYS:NZ	2.29	0.46
1:G:638:ASN:OD1	1:H:24:SER:N	2.49	0.46
1:G:940:LEU:HB2	4:P:31:ILE:HG23	1.98	0.46
1:C:892:LEU:CB	1:E:950:THR:H	2.22	0.46
1:E:178:ILE:CG2	1:E:281:PRO:HG3	2.45	0.46
1:E:178:ILE:HG21	1:E:281:PRO:CG	2.46	0.46
1:G:281:PRO:HD3	1:H:438:TRP:CH2	2.50	0.46
1:G:219:ALA:HA	1:G:284:VAL:O	2.14	0.46
1:K:924:VAL:HG21	1:L:14:ILE:HD13	1.88	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:178:ILE:HG22	1:B:281:PRO:HG3	1.98	0.46
1:C:358:VAL:HG13	1:K:341:THR:HB	1.97	0.46
1:F:23:LEU:O	1:F:24:SER:C	2.53	0.46
1:B:939:TYR:HB2	1:B:947:GLY:O	2.16	0.46
1:E:23:LEU:HD11	1:E:44:PHE:CB	2.45	0.46
1:L:23:LEU:HD11	1:L:44:PHE:CB	2.45	0.46
1:L:23:LEU:O	1:L:24:SER:C	2.53	0.46
1:I:264:GLN:O	1:I:266:PHE:CD1	2.68	0.46
1:K:444:GLU:CG	1:K:445:PHE:O	2.64	0.46
1:H:444:GLU:CG	1:H:445:PHE:O	2.64	0.46
1:C:188:GLU:HG3	1:C:193:LYS:HD3	1.97	0.46
1:H:599:ASP:CG	5:S:32:SER:HG	2.18	0.46
1:B:400:ILE:CD1	1:B:476:ILE:CD1	2.89	0.46
1:H:659:ALA:CB	5:S:11:VAL:HG11	2.46	0.46
1:G:640:GLN:HB3	1:H:43:LYS:O	2.15	0.46
1:A:733:ASN:CB	1:B:60:SER:HA	2.46	0.46
1:L:680:THR:CG2	1:L:714:ASN:OD1	2.63	0.46
3:N:178:SER:HB3	3:N:189:PHE:CE1	2.45	0.46
1:C:539:ASN:C	1:C:539:ASN:ND2	2.68	0.46
1:A:820:HIS:CD2	1:B:202:GLU:OE1	2.67	0.46
5:T:45:THR:O	5:T:48:THR:HG22	2.15	0.46
1:F:654:PRO:HA	1:F:914:LEU:HD23	1.97	0.46
1:F:610:ASP:O	5:T:99:LYS:NZ	2.46	0.46
1:F:636:ASP:N	4:P:25:GLN:NE2	2.49	0.46
1:G:884:LEU:HD21	1:H:14:ILE:CG2	2.45	0.46
1:H:23:LEU:HD11	1:H:44:PHE:CB	2.45	0.46
1:E:261:VAL:HG12	1:E:262:GLU:N	2.30	0.46
1:B:240:THR:CG2	1:B:249:LEU:CD1	2.92	0.46
1:A:59:ARG:NH1	1:E:354:LEU:CG	2.70	0.46
1:C:23:LEU:HD11	1:C:44:PHE:CB	2.45	0.46
2:M:106:ALA:HB2	2:M:109:GLN:NE2	2.31	0.46
1:J:633:LEU:HD23	1:K:27:LEU:HD21	1.97	0.46
1:H:684:THR:HG21	5:S:27:GLN:H	1.80	0.46
1:H:165:THR:HB	1:I:445:PHE:H	1.81	0.46
1:B:264:GLN:NE2	1:C:445:PHE:HZ	2.13	0.46
1:C:184:GLN:NE2	1:C:187:VAL:CG1	2.78	0.46
1:D:184:GLN:NE2	1:D:187:VAL:CG1	2.78	0.46
1:G:187:VAL:HA	1:G:193:LYS:H	1.80	0.46
1:H:400:ILE:CD1	1:H:476:ILE:CD1	2.89	0.46
1:G:101:ASP:OD2	1:I:762:LYS:NZ	2.47	0.46
1:D:615:TYR:CD2	1:F:762:LYS:HE2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:730:TRP:CG	1:K:731:PRO:CA	2.94	0.46
1:A:115:TYR:CG	1:C:519:LEU:HD22	2.51	0.46
1:A:34:THR:C	1:A:36:THR:N	2.64	0.46
1:J:34:THR:C	1:J:36:THR:N	2.64	0.46
1:J:213:THR:CG2	1:J:213:THR:O	2.63	0.46
1:G:386:TRP:CZ2	1:I:780:PHE:HB2	2.49	0.46
1:E:788:ASP:OD2	1:F:381:ARG:NH2	2.47	0.46
1:D:547:MET:SD	1:F:522:ARG:HB2	2.56	0.46
1:K:672:ALA:HB2	1:K:894:ALA:CA	2.46	0.46
1:C:637:THR:OG1	4:O:200:PRO:CG	2.63	0.46
1:A:87:VAL:O	1:A:575:PRO:HA	2.16	0.46
1:F:667:PRO:O	1:F:668:SER:C	2.53	0.46
1:A:257:LEU:CD2	1:A:259:SER:HB3	2.45	0.46
1:I:430:PRO:O	1:I:431:LYS:HB2	2.15	0.46
1:F:178:ILE:HG22	1:F:281:PRO:HG3	1.98	0.46
1:F:341:THR:O	1:G:692:SER:CA	2.63	0.46
1:E:5:MET:O	1:E:6:MET:HG2	2.16	0.46
1:G:558:HIS:ND1	1:I:751:GLU:O	2.48	0.46
1:B:22:TYR:HE1	1:B:23:LEU:CD2	2.14	0.46
1:A:638:ASN:ND2	1:B:24:SER:OG	2.49	0.46
1:C:63:LEU:HD21	1:C:620:PRO:HD3	1.98	0.46
1:B:444:GLU:CG	1:B:445:PHE:O	2.63	0.46
1:K:165:THR:O	1:L:445:PHE:CA	2.56	0.46
1:E:63:LEU:HD21	1:E:620:PRO:HD3	1.98	0.46
1:E:853:THR:CB	1:F:295:PRO:HB3	2.45	0.46
1:K:187:VAL:HA	1:K:193:LYS:H	1.80	0.46
1:D:187:VAL:HA	1:D:193:LYS:H	1.80	0.46
1:H:697:TYR:CD2	5:S:29:VAL:O	2.68	0.46
1:I:87:VAL:O	1:I:575:PRO:HA	2.16	0.46
1:L:87:VAL:O	1:L:575:PRO:HA	2.16	0.46
1:H:929:ARG:CG	1:H:929:ARG:NH1	2.74	0.46
1:K:304:THR:HG22	1:K:306:LYS:N	2.23	0.46
1:G:9:TRP:HZ2	1:I:673:ALA:HB2	1.79	0.46
1:C:680:THR:CG2	1:C:714:ASN:OD1	2.63	0.46
1:H:891:LEU:HB3	1:H:895:ASN:HD21	1.79	0.46
3:N:250:ARG:O	3:N:251:ASP:HB2	2.16	0.46
3:N:194:GLN:CA	4:O:207:HIS:CA	2.93	0.46
1:F:579:THR:O	1:F:579:THR:HG23	2.15	0.46
1:H:23:LEU:O	1:H:24:SER:C	2.53	0.46
1:H:8:GLN:CD	4:P:31:ILE:HD12	2.36	0.46
4:P:44:VAL:HG12	4:P:48:ARG:CZ	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:257:LEU:CD2	1:B:259:SER:HB3	2.45	0.46
2:M:106:ALA:CB	2:M:109:GLN:NE2	2.79	0.46
1:I:719:LYS:HZ1	5:T:22:TRP:HB3	1.80	0.46
1:D:445:PHE:N	1:F:165:THR:HB	2.31	0.46
1:B:184:GLN:NE2	1:B:187:VAL:CG1	2.78	0.46
1:H:601:ARG:CG	5:S:32:SER:OG	2.64	0.46
1:B:56:THR:HG22	1:B:57:THR:N	2.30	0.46
1:H:63:LEU:HD21	1:H:620:PRO:HD3	1.98	0.46
1:K:752:GLY:CA	1:L:103:ARG:HD2	2.39	0.46
1:J:304:THR:HG22	1:J:306:LYS:N	2.23	0.46
1:A:119:ALA:CB	1:C:519:LEU:HD12	2.42	0.46
1:B:642:PHE:CE2	1:C:43:LYS:HA	2.51	0.46
1:K:680:THR:CG2	1:K:714:ASN:OD1	2.63	0.46
1:I:636:ASP:O	1:I:926:ARG:NH1	2.47	0.46
1:K:407:ASP:O	1:L:126:LYS:HE2	2.15	0.46
1:A:836:ARG:NH1	1:C:456:ASN:O	2.48	0.46
1:B:654:PRO:HA	1:B:914:LEU:HD23	1.98	0.46
1:B:405:THR:HG21	1:B:465:ALA:HA	1.98	0.46
1:E:405:THR:HG21	1:E:465:ALA:HA	1.98	0.46
1:J:467:LEU:CD2	1:L:464:ASN:HD21	2.29	0.46
1:F:87:VAL:O	1:F:575:PRO:HA	2.16	0.46
1:A:27:LEU:HD21	1:C:633:LEU:HD23	1.98	0.46
4:O:22:GLY:HA3	4:O:214:PRO:CA	2.46	0.46
4:P:205:PRO:O	4:P:208:TYR:CZ	2.69	0.46
1:K:891:LEU:O	1:K:895:ASN:N	2.48	0.46
1:K:874:PHE:CE2	1:K:893:TYR:CZ	3.04	0.46
1:L:751:GLU:OE2	5:Q:52:VAL:HA	2.15	0.46
1:L:861:LYS:HB3	5:Q:50:GLU:CD	2.37	0.46
1:F:257:LEU:CD2	1:F:259:SER:HB3	2.45	0.46
1:A:432:THR:CG2	1:A:433:GLY:N	2.79	0.46
1:F:5:MET:O	1:F:6:MET:HG2	2.16	0.46
1:K:693:GLY:O	1:K:694:TYR:HB2	2.15	0.46
1:D:428:VAL:HG11	1:D:438:TRP:HE3	1.80	0.46
1:J:874:PHE:CE2	1:J:893:TYR:CZ	3.02	0.46
1:J:884:LEU:HB3	1:K:49:VAL:HA	1.97	0.46
1:F:23:LEU:HD11	1:F:44:PHE:CB	2.45	0.46
1:E:23:LEU:O	1:E:24:SER:C	2.53	0.46
1:I:5:MET:O	1:I:6:MET:HG2	2.16	0.46
1:G:24:SER:HG	1:G:27:LEU:HB3	1.81	0.46
1:K:177:ASN:HA	1:K:217:HIS:CD2	2.51	0.46
1:D:444:GLU:CG	1:D:445:PHE:O	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:444:GLU:CG	1:E:445:PHE:O	2.64	0.46
1:G:184:GLN:NE2	1:G:187:VAL:CG1	2.78	0.46
1:A:519:LEU:HD13	1:B:115:TYR:CZ	2.51	0.46
1:D:121:ASN:HA	1:F:824:ASN:CG	2.35	0.46
1:F:539:ASN:ND2	1:F:539:ASN:C	2.68	0.46
2:M:121:GLY:HA3	2:M:563:PRO:HA	1.98	0.46
1:K:654:PRO:HA	1:K:914:LEU:HD23	1.97	0.46
1:A:23:LEU:HD11	1:A:44:PHE:CB	2.45	0.46
1:K:940:LEU:HD22	4:O:31:ILE:CD1	2.46	0.46
1:F:358:VAL:HG13	1:G:341:THR:OG1	2.16	0.46
1:E:177:ASN:HA	1:E:217:HIS:CD2	2.51	0.46
1:L:861:LYS:CB	5:Q:50:GLU:CD	2.84	0.46
1:I:428:VAL:HG11	1:I:438:TRP:HE3	1.80	0.46
1:I:257:LEU:CD2	1:I:259:SER:HB3	2.45	0.46
1:C:740:ASN:H	1:E:341:THR:CB	2.28	0.46
1:H:894:ALA:HB1	1:I:5:MET:HE1	1.91	0.46
1:J:5:MET:O	1:J:6:MET:HG2	2.16	0.46
1:J:463:LEU:CD2	1:L:463:LEU:HD21	2.26	0.46
1:L:948:ASN:HB2	1:L:949:ALA:CB	2.46	0.46
1:E:858:ILE:HG12	5:Q:112:ARG:HH21	1.79	0.46
1:K:56:THR:HG22	1:K:57:THR:N	2.31	0.46
5:Q:121:LEU:O	5:Q:124:LEU:HG	2.15	0.46
1:A:853:THR:CG2	1:B:293:GLU:OE1	2.61	0.46
1:K:268:THR:CG2	1:K:268:THR:O	2.59	0.46
1:F:874:PHE:CZ	1:F:893:TYR:OH	2.65	0.46
1:B:246:GLN:CG	1:B:290:VAL:CG1	2.85	0.46
1:G:246:GLN:CD	1:G:290:VAL:HG11	2.33	0.46
1:E:87:VAL:O	1:E:575:PRO:HA	2.16	0.46
1:G:50:ALA:HB3	1:I:884:LEU:O	2.16	0.46
1:A:56:THR:HG22	1:A:57:THR:N	2.30	0.46
1:G:726:SER:OG	1:J:670:ASN:HB2	2.09	0.46
1:K:619:PHE:CE1	1:L:37:TYR:HB2	2.51	0.46
1:I:680:THR:CG2	1:I:714:ASN:OD1	2.63	0.46
1:L:539:ASN:C	1:L:539:ASN:ND2	2.68	0.46
1:F:496:ASN:O	1:F:499:THR:HB	2.16	0.46
1:A:496:ASN:O	1:A:499:THR:HB	2.16	0.46
1:I:405:THR:HG21	1:I:465:ALA:HA	1.98	0.46
1:C:654:PRO:HA	1:C:914:LEU:HD23	1.98	0.46
1:E:522:ARG:HB2	1:F:547:MET:SD	2.56	0.46
3:N:198:THR:CB	4:O:199:ASN:ND2	2.74	0.46
1:A:574:LEU:HG	1:A:929:ARG:NE	2.25	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:5:MET:O	1:D:6:MET:HG2	2.16	0.46
1:G:178:ILE:HG22	1:G:281:PRO:HG3	1.97	0.46
1:C:430:PRO:O	1:C:431:LYS:HB2	2.15	0.46
1:C:937:THR:O	1:C:950:THR:O	2.34	0.46
1:K:240:THR:CG2	1:K:249:LEU:CD1	2.92	0.46
1:C:734:ASP:HA	1:C:739:PRO:CG	2.46	0.46
1:D:633:LEU:CD2	1:E:27:LEU:HD21	2.46	0.46
5:Q:111:THR:CG2	5:T:110:LEU:CD1	2.55	0.46
1:J:23:LEU:HD11	1:J:44:PHE:CB	2.45	0.46
5:S:22:TRP:HB2	5:S:25:VAL:CG2	2.46	0.46
1:I:444:GLU:CG	1:I:445:PHE:O	2.63	0.46
1:I:177:ASN:HA	1:I:217:HIS:CD2	2.51	0.46
1:J:183:ILE:CG2	1:J:284:VAL:HB	2.46	0.46
1:B:735:ARG:HA	1:C:62:ARG:HA	1.98	0.46
1:G:61:GLN:NE2	1:G:623:HIS:CE1	2.80	0.46
1:H:654:PRO:HA	1:H:914:LEU:HD23	1.97	0.46
1:E:574:LEU:HG	1:E:929:ARG:NE	2.24	0.46
1:K:87:VAL:O	1:K:575:PRO:HA	2.16	0.46
1:C:75:THR:HB	1:K:697:TYR:CE2	2.41	0.46
1:I:56:THR:HG22	1:I:57:THR:N	2.30	0.46
1:L:428:VAL:HG13	1:L:438:TRP:HB3	1.97	0.46
1:I:496:ASN:O	1:I:499:THR:HB	2.16	0.46
1:B:332:PHE:CE1	1:B:387:ASN:HB2	2.51	0.46
2:M:213:ARG:HD3	2:M:509:PRO:HG2	1.98	0.46
1:B:733:ASN:HB3	1:C:60:SER:HA	1.98	0.46
1:C:405:THR:HG21	1:C:465:ALA:HA	1.98	0.46
3:N:196:LEU:CA	4:O:197:TYR:CD2	2.97	0.45
1:E:281:PRO:CB	1:F:438:TRP:HZ3	2.02	0.45
1:J:556:PRO:HG3	5:Q:52:VAL:HG23	1.98	0.45
1:L:177:ASN:HA	1:L:217:HIS:CD2	2.51	0.45
1:A:177:ASN:HA	1:A:217:HIS:CD2	2.51	0.45
1:F:177:ASN:HA	1:F:217:HIS:CD2	2.51	0.45
1:C:23:LEU:O	1:C:24:SER:C	2.53	0.45
1:B:22:TYR:HE1	1:B:23:LEU:HD21	1.66	0.45
3:N:271:ASP:HB2	4:O:61:ILE:CG2	2.41	0.45
1:A:295:PRO:HB3	1:C:853:THR:CB	2.45	0.45
1:J:187:VAL:HA	1:J:193:LYS:H	1.80	0.45
1:A:187:VAL:HA	1:A:193:LYS:H	1.80	0.45
1:B:737:LEU:CA	1:C:62:ARG:NH2	2.53	0.45
1:G:835:MET:HA	1:I:412:TYR:HH	1.73	0.45
1:E:739:PRO:HG3	1:J:740:ASN:HD21	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:346:VAL:HB	1:C:581:GLU:HB3	1.98	0.45
1:C:204:GLN:HG3	1:C:204:GLN:H	1.37	0.45
1:D:60:SER:HA	1:F:733:ASN:HB3	1.98	0.45
1:D:496:ASN:O	1:D:499:THR:HB	2.16	0.45
1:L:332:PHE:CE1	1:L:387:ASN:HB2	2.52	0.45
1:D:89:ASP:O	1:D:91:ARG:HG3	2.16	0.45
1:K:877:ASN:ND2	1:L:619:PHE:CZ	2.81	0.45
1:J:833:PRO:CB	1:L:409:LEU:HD23	2.47	0.45
1:H:693:GLY:O	1:H:694:TYR:HB3	2.16	0.45
1:L:654:PRO:HA	1:L:914:LEU:HD23	1.97	0.45
1:K:579:THR:O	1:K:579:THR:HG23	2.14	0.45
1:J:654:PRO:HA	1:J:914:LEU:HD23	1.98	0.45
1:G:890:ASN:HB3	1:G:893:TYR:CD2	2.48	0.45
1:C:893:TYR:CZ	1:E:950:THR:CG2	2.97	0.45
1:L:719:LYS:HG3	5:Q:22:TRP:CZ2	2.50	0.45
1:E:219:ALA:HA	1:E:284:VAL:O	2.16	0.45
1:D:432:THR:CG2	1:D:433:GLY:N	2.79	0.45
1:D:905:GLU:HB2	5:R:22:TRP:CZ3	2.52	0.45
5:S:110:LEU:HD22	5:S:110:LEU:O	2.16	0.45
1:G:463:LEU:HD21	1:H:463:LEU:CD2	2.34	0.45
1:C:177:ASN:HA	1:C:217:HIS:CD2	2.51	0.45
1:I:178:ILE:HG21	1:I:281:PRO:CG	2.47	0.45
1:J:177:ASN:HA	1:J:217:HIS:CD2	2.51	0.45
1:A:521:ALA:CA	1:B:551:ASN:HB3	2.45	0.45
1:J:811:LYS:HG3	1:J:812:ASP:N	2.31	0.45
1:B:842:PRO:CG	1:C:246:GLN:HE22	2.27	0.45
1:I:246:GLN:CD	1:I:290:VAL:HG11	2.34	0.45
1:D:246:GLN:CD	1:D:290:VAL:HG11	2.33	0.45
1:E:929:ARG:NH1	1:E:929:ARG:CG	2.74	0.45
1:A:40:LEU:HD22	1:C:572:LEU:HD22	1.99	0.45
1:F:72:ARG:NH2	5:Q:94:SER:HA	2.32	0.45
1:G:539:ASN:C	1:G:539:ASN:ND2	2.68	0.45
1:E:213:THR:CG2	1:E:213:THR:O	2.63	0.45
1:G:213:THR:O	1:G:213:THR:CG2	2.63	0.45
1:J:446:SER:OG	1:L:166:HIS:CD2	2.69	0.45
5:S:104:LEU:O	5:S:104:LEU:HD23	2.16	0.45
1:A:124:ALA:HB2	1:C:827:PHE:CE2	2.51	0.45
1:K:168:PHE:HA	1:L:450:GLU:O	2.16	0.45
1:B:690:LEU:HD11	1:B:707:LEU:HD21	1.97	0.45
1:A:180:LYS:HE3	1:B:430:PRO:HG2	1.98	0.45
1:C:6:MET:O	1:C:8:GLN:OE1	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:24:SER:HG	1:B:27:LEU:HB2	1.81	0.45
1:G:617:THR:HG22	1:I:777:TYR:CD1	2.52	0.45
1:K:63:LEU:O	1:K:617:THR:HG23	2.16	0.45
1:C:268:THR:O	1:C:269:THR:HB	2.17	0.45
1:G:295:PRO:HB3	1:I:853:THR:OG1	2.15	0.45
1:J:278:ASN:C	1:J:280:THR:N	2.65	0.45
1:L:63:LEU:HD21	1:L:620:PRO:HD3	1.98	0.45
1:J:640:GLN:HB3	1:K:43:LYS:O	2.16	0.45
1:A:733:ASN:O	1:B:61:GLN:N	2.46	0.45
1:J:827:PHE:CE2	1:K:124:ALA:CB	2.99	0.45
1:A:636:ASP:O	1:A:926:ARG:NH1	2.47	0.45
1:C:213:THR:O	1:C:213:THR:CG2	2.63	0.45
1:E:332:PHE:CE1	1:E:387:ASN:HB2	2.51	0.45
1:J:89:ASP:O	1:J:91:ARG:HG3	2.17	0.45
1:H:77:TYR:CE1	1:H:693:GLY:O	2.70	0.45
1:D:682:LEU:HD22	1:D:705:PRO:HB2	1.99	0.45
1:D:405:THR:HG21	1:D:465:ALA:HA	1.98	0.45
1:E:877:ASN:ND2	1:F:619:PHE:CZ	2.83	0.45
1:A:9:TRP:HB3	1:A:14:ILE:HB	1.98	0.45
1:C:637:THR:CB	4:O:200:PRO:CB	2.94	0.45
4:O:22:GLY:HA3	4:O:214:PRO:HA	1.97	0.45
4:O:6:PRO:HG3	4:O:198:PHE:CA	2.45	0.45
1:F:672:ALA:O	1:F:943:PRO:HG3	2.16	0.45
1:G:638:ASN:OD1	1:H:27:LEU:HD23	2.15	0.45
1:C:724:PHE:CE1	1:E:950:THR:HG21	2.52	0.45
1:L:860:GLN:HG2	5:Q:49:TYR:CD2	2.51	0.45
1:G:177:ASN:HA	1:G:217:HIS:CD2	2.51	0.45
1:C:431:LYS:HE2	1:C:431:LYS:HB3	1.79	0.45
1:J:59:ARG:NH2	4:P:93:ARG:NE	2.64	0.45
5:S:110:LEU:CD2	5:T:114:LEU:HD23	2.46	0.45
1:C:89:ASP:O	1:C:91:ARG:HG3	2.17	0.45
1:B:891:LEU:HB3	3:N:93:LEU:CG	2.46	0.45
1:G:5:MET:O	1:G:6:MET:HG2	2.16	0.45
1:F:264:GLN:O	1:F:266:PHE:CD1	2.69	0.45
1:K:184:GLN:NE2	1:K:187:VAL:CG1	2.78	0.45
1:F:187:VAL:HA	1:F:193:LYS:H	1.80	0.45
1:C:930:PRO:O	4:O:24:ALA:HB1	2.16	0.45
1:J:459:MET:HE2	1:L:459:MET:HG2	1.98	0.45
1:K:496:ASN:O	1:K:499:THR:HB	2.16	0.45
1:I:332:PHE:CE1	1:I:387:ASN:HB2	2.52	0.45
1:G:522:ARG:HB2	1:H:547:MET:SD	2.56	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:464:ASN:HD21	1:F:467:LEU:CD2	2.30	0.45
1:G:814:GLN:HG3	1:H:239:PRO:O	2.15	0.45
1:H:889:GLN:OE1	1:I:50:ALA:O	2.34	0.45
1:J:409:LEU:HD23	1:K:833:PRO:CB	2.46	0.45
1:A:89:ASP:O	1:A:91:ARG:HG3	2.17	0.45
1:H:3:PRO:HD3	4:P:58:GLN:NE2	2.31	0.45
1:J:558:HIS:ND1	1:L:751:GLU:O	2.50	0.45
1:H:177:ASN:HA	1:H:217:HIS:CD2	2.51	0.45
1:L:257:LEU:CD2	1:L:259:SER:HB3	2.45	0.45
1:J:892:LEU:CD2	4:P:224:ASP:CA	2.73	0.45
1:F:340:SER:O	1:F:341:THR:C	2.54	0.45
1:E:187:VAL:HA	1:E:193:LYS:H	1.80	0.45
1:J:193:LYS:HA	1:J:193:LYS:HD2	1.75	0.45
1:G:94:ASP:OD2	1:I:778:GLN:NE2	2.28	0.45
1:K:636:ASP:O	1:K:926:ARG:NH1	2.47	0.45
1:J:115:TYR:CE1	1:L:519:LEU:HD13	2.52	0.45
1:K:519:LEU:HD13	1:L:115:TYR:CZ	2.51	0.45
1:E:680:THR:CG2	1:E:714:ASN:OD1	2.63	0.45
1:A:539:ASN:ND2	1:A:539:ASN:C	2.68	0.45
1:H:861:LYS:HE2	1:H:861:LYS:HB2	1.62	0.45
1:H:496:ASN:O	1:H:499:THR:HB	2.16	0.45
1:A:332:PHE:CE1	1:A:387:ASN:HB2	2.51	0.45
1:J:547:MET:SD	1:L:522:ARG:HB2	2.56	0.45
1:J:657:ALA:O	5:R:133:ALA:HB1	2.15	0.45
1:C:635:ASN:HD21	4:O:25:GLN:HE22	1.63	0.45
1:G:341:THR:HA	1:G:344:MET:CG	2.46	0.45
1:K:8:GLN:N	1:K:8:GLN:OE1	2.50	0.45
1:G:178:ILE:CD1	1:G:284:VAL:HG23	2.36	0.45
1:G:257:LEU:CD2	1:G:259:SER:HB3	2.45	0.45
1:K:89:ASP:O	1:K:91:ARG:HG3	2.17	0.45
1:D:24:SER:OG	1:D:27:LEU:CB	2.60	0.45
1:C:24:SER:HG	1:C:27:LEU:HB3	1.82	0.45
1:A:62:ARG:HD3	1:A:64:THR:O	2.16	0.45
1:E:809:LYS:NZ	5:T:106:GLN:HB3	2.31	0.45
1:C:444:GLU:CG	1:C:445:PHE:O	2.63	0.45
1:E:808:THR:HG21	5:Q:115:ASN:ND2	2.31	0.45
1:D:268:THR:O	1:D:269:THR:HB	2.17	0.45
1:H:696:PRO:O	5:S:32:SER:N	2.46	0.45
1:L:246:GLN:CD	1:L:290:VAL:HG11	2.33	0.45
1:D:87:VAL:O	1:D:575:PRO:HA	2.16	0.45
1:C:667:PRO:HG2	1:K:82:ARG:NH1	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:642:PHE:CE2	1:B:43:LYS:HA	2.51	0.45
1:A:279:LEU:HA	1:A:279:LEU:HD22	1.81	0.45
1:C:496:ASN:O	1:C:499:THR:HB	2.16	0.45
1:D:332:PHE:CE1	1:D:387:ASN:HB2	2.51	0.45
1:G:332:PHE:CE1	1:G:387:ASN:HB2	2.52	0.45
1:B:756:ALA:HA	1:C:385:MET:HA	1.98	0.45
1:E:654:PRO:HA	1:E:914:LEU:HD23	1.98	0.45
1:J:682:LEU:HD22	1:J:705:PRO:HB2	1.99	0.45
1:H:682:LEU:HD22	1:H:705:PRO:HB2	1.99	0.45
1:B:682:LEU:HD22	1:B:705:PRO:HB2	1.99	0.45
1:D:40:LEU:CD2	1:F:572:LEU:HD22	2.47	0.45
1:K:672:ALA:HB1	1:K:894:ALA:HB2	1.96	0.45
1:F:668:SER:OG	1:G:350:GLN:NE2	2.49	0.45
1:F:937:THR:O	1:F:950:THR:O	2.35	0.45
1:G:940:LEU:HD22	4:P:31:ILE:HD11	1.98	0.45
1:L:859:THR:CB	5:Q:52:VAL:CG2	2.83	0.45
1:D:178:ILE:CD1	1:D:284:VAL:HG23	2.36	0.45
1:B:177:ASN:HA	1:B:217:HIS:CD2	2.51	0.45
1:K:9:TRP:CZ3	4:P:17:MET:CG	3.00	0.45
1:J:59:ARG:NH2	4:P:93:ARG:CZ	2.80	0.45
1:E:809:LYS:HE2	5:T:106:GLN:CB	2.46	0.45
1:G:19:ALA:CB	1:G:23:LEU:HD11	2.40	0.45
1:J:19:ALA:CB	1:J:23:LEU:HD11	2.40	0.45
1:H:651:MET:HE3	5:S:18:ARG:HG3	1.99	0.45
1:G:445:PHE:CE1	1:I:165:THR:HG21	2.51	0.45
1:G:63:LEU:HD21	1:G:620:PRO:HD3	1.98	0.45
1:I:63:LEU:HD21	1:I:620:PRO:HD3	1.98	0.45
1:C:934:VAL:CG2	4:O:27:TYR:OH	2.45	0.45
1:B:268:THR:O	1:B:269:THR:HB	2.16	0.45
1:H:842:PRO:CG	1:I:246:GLN:HE22	2.27	0.45
1:G:87:VAL:O	1:G:575:PRO:HA	2.16	0.45
1:E:570:ASN:HB3	1:F:42:ASN:HD21	1.81	0.45
1:E:570:ASN:O	1:F:43:LYS:CD	2.65	0.45
1:F:69:PRO:HB2	5:Q:94:SER:OG	2.17	0.45
1:B:170:GLN:HA	1:C:452:ARG:O	2.16	0.45
1:D:680:THR:CG2	1:D:714:ASN:OD1	2.63	0.45
1:G:785:SER:OG	1:H:381:ARG:NH2	2.50	0.45
1:J:861:LYS:HE2	1:J:861:LYS:HB2	1.62	0.45
1:E:636:ASP:O	1:E:926:ARG:NH1	2.47	0.45
3:N:202:SER:O	3:N:206:LYS:HG3	2.16	0.45
1:J:332:PHE:CE1	1:J:387:ASN:HB2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:89:ASP:O	1:E:91:ARG:HG3	2.17	0.45
1:I:596:LEU:HD12	1:I:596:LEU:HA	1.88	0.45
1:K:405:THR:HG21	1:K:465:ALA:HA	1.98	0.45
1:G:405:THR:HG21	1:G:465:ALA:HA	1.98	0.45
3:N:194:GLN:HA	4:O:207:HIS:CB	2.46	0.45
1:L:7:PRO:CA	4:O:47:ILE:HG12	2.47	0.45
1:H:4:SER:OG	4:P:55:LEU:CD1	2.56	0.45
1:K:938:VAL:N	4:O:40:MET:HE1	2.32	0.45
1:J:884:LEU:HD11	1:K:9:TRP:CH2	2.51	0.45
1:A:61:GLN:NE2	1:A:623:HIS:CE1	2.80	0.45
1:G:558:HIS:HE1	1:I:752:GLY:O	1.95	0.45
1:C:87:VAL:O	1:C:575:PRO:HA	2.16	0.45
1:B:891:LEU:H	1:B:891:LEU:HD13	1.81	0.45
1:E:853:THR:CG2	1:F:293:GLU:OE1	2.56	0.45
1:E:268:THR:O	1:E:269:THR:HB	2.17	0.45
1:D:295:PRO:HB3	1:F:853:THR:CB	2.46	0.45
5:Q:96:ARG:NH1	5:R:136:PRO:HG3	2.32	0.45
1:A:268:THR:O	1:A:269:THR:HB	2.16	0.45
1:J:280:THR:CA	1:K:438:TRP:CZ3	2.88	0.45
2:M:79:VAL:O	2:M:81:SER:N	2.50	0.45
1:G:56:THR:CB	1:I:876:SER:OG	2.65	0.45
1:G:246:GLN:HE22	1:I:842:PRO:CG	2.24	0.45
1:H:87:VAL:O	1:H:575:PRO:HA	2.16	0.45
1:F:941:ARG:O	1:F:945:SER:HA	2.16	0.45
1:F:755:VAL:HG11	1:F:762:LYS:HG2	1.97	0.45
1:B:87:VAL:O	1:B:575:PRO:HA	2.16	0.45
1:G:202:GLU:CD	1:I:820:HIS:HD2	2.20	0.45
1:E:749:ASP:HA	5:Q:105:ALA:HB1	1.99	0.45
1:L:496:ASN:O	1:L:499:THR:HB	2.16	0.45
1:B:678:ALA:HA	1:B:870:TRP:O	2.17	0.45
1:L:89:ASP:O	1:L:91:ARG:HG3	2.17	0.45
1:G:89:ASP:O	1:G:91:ARG:HG3	2.17	0.45
1:B:348:ALA:O	1:B:579:THR:HG22	2.17	0.45
1:H:405:THR:HG21	1:H:465:ALA:HA	1.98	0.45
2:M:42:PRO:HA	2:M:43:PRO:HD3	1.87	0.45
1:F:894:ALA:HA	1:G:353:GLN:NE2	2.31	0.45
1:L:859:THR:O	5:Q:51:THR:HA	2.17	0.45
4:P:40:MET:HE2	4:P:40:MET:HB2	1.71	0.45
1:B:941:ARG:O	1:B:944:PHE:O	2.34	0.45
1:K:22:TYR:HE1	1:K:23:LEU:CD2	2.14	0.45
1:E:282:LYS:O	1:E:283:VAL:CG2	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:188:GLU:HG3	1:H:193:LYS:HD3	1.97	0.45
1:K:188:GLU:HG3	1:K:193:LYS:HD3	1.97	0.45
5:Q:96:ARG:O	5:Q:100:LEU:HB2	2.17	0.45
1:H:699:THR:CG2	5:S:31:GLY:C	2.85	0.45
1:I:400:ILE:CD1	1:I:476:ILE:CD1	2.90	0.45
1:D:63:LEU:HD21	1:F:777:TYR:CZ	2.51	0.45
5:R:106:GLN:C	5:R:107:LEU:HD22	2.37	0.45
1:A:430:PRO:CG	1:C:180:LYS:CE	2.86	0.45
1:G:572:LEU:HD22	1:H:40:LEU:HD22	1.97	0.45
1:J:519:LEU:HD12	1:K:119:ALA:CB	2.42	0.45
4:P:197:TYR:HA	4:P:197:TYR:HD2	1.71	0.45
4:P:6:PRO:HG3	4:P:198:PHE:CA	2.47	0.45
1:B:570:ASN:O	1:C:43:LYS:HD3	2.16	0.45
1:H:824:ASN:CG	1:I:121:ASN:HA	2.37	0.45
2:M:151:ARG:HG3	2:M:161:LEU:HD21	1.99	0.45
1:C:678:ALA:HA	1:C:870:TRP:O	2.17	0.45
1:H:678:ALA:HA	1:H:870:TRP:O	2.17	0.45
1:C:332:PHE:CE1	1:C:387:ASN:HB2	2.51	0.45
1:H:89:ASP:O	1:H:91:ARG:HG3	2.17	0.45
1:A:348:ALA:O	1:A:579:THR:HG22	2.17	0.45
1:K:682:LEU:HD22	1:K:705:PRO:HB2	1.99	0.45
1:E:799:PRO:HG3	1:F:384:SER:OG	2.17	0.45
5:Q:83:SER:HB2	5:Q:84:PRO:HD3	1.98	0.45
4:O:29:THR:O	4:O:29:THR:CG2	2.65	0.45
1:F:431:LYS:HE2	1:F:431:LYS:HB3	1.78	0.45
1:K:432:THR:CG2	1:K:433:GLY:N	2.80	0.45
1:G:178:ILE:HB	1:G:281:PRO:HG2	1.97	0.45
1:D:438:TRP:HB2	1:F:279:LEU:HB3	1.98	0.45
1:J:890:ASN:HD22	1:J:892:LEU:HB3	1.77	0.45
1:F:59:ARG:N	1:K:60:SER:H	2.14	0.45
1:B:942:THR:HA	1:B:943:PRO:C	2.37	0.45
1:K:24:SER:HG	1:K:27:LEU:HB3	1.82	0.45
1:I:22:TYR:HE1	1:I:23:LEU:CD2	2.14	0.45
1:H:266:PHE:CE1	1:H:285:LEU:HD12	2.52	0.45
1:G:266:PHE:CE1	1:G:285:LEU:HD12	2.52	0.45
5:T:121:LEU:O	5:T:124:LEU:HG	2.17	0.45
1:H:193:LYS:HD2	1:H:193:LYS:HA	1.75	0.45
1:I:178:ILE:HB	1:I:281:PRO:HG2	1.98	0.45
1:K:282:LYS:O	1:K:283:VAL:CG2	2.64	0.45
1:F:63:LEU:HD21	1:F:620:PRO:HD3	1.98	0.45
1:F:400:ILE:CD1	1:F:476:ILE:CD1	2.89	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:P:6:PRO:CG	4:P:198:PHE:H	2.29	0.45
1:G:680:THR:CG2	1:G:714:ASN:OD1	2.63	0.45
3:N:110:VAL:O	3:N:114:LEU:HD23	2.17	0.45
1:H:539:ASN:C	1:H:539:ASN:ND2	2.68	0.45
1:B:496:ASN:O	1:B:499:THR:HB	2.16	0.45
1:A:213:THR:CG2	1:A:213:THR:O	2.63	0.45
1:F:678:ALA:HA	1:F:870:TRP:O	2.17	0.45
1:J:678:ALA:HA	1:J:870:TRP:O	2.17	0.45
1:F:332:PHE:CE1	1:F:387:ASN:HB2	2.52	0.45
1:L:348:ALA:O	1:L:579:THR:HG22	2.17	0.45
1:H:77:TYR:CD1	1:H:693:GLY:O	2.70	0.45
1:A:405:THR:HG21	1:A:465:ALA:HA	1.98	0.45
1:A:682:LEU:HD22	1:A:705:PRO:HB2	1.99	0.45
1:G:654:PRO:HA	1:G:914:LEU:HD23	1.98	0.45
1:H:642:PHE:CE2	1:I:43:LYS:HA	2.52	0.45
1:L:405:THR:HG21	1:L:465:ALA:HA	1.98	0.45
1:D:116:SER:O	1:F:404:GLY:HA3	2.16	0.45
1:F:636:ASP:O	1:F:926:ARG:NH1	2.47	0.44
1:G:936:GLU:C	4:P:40:MET:SD	2.96	0.44
1:D:279:LEU:HB3	1:E:438:TRP:HB2	1.99	0.44
1:F:178:ILE:HB	1:F:281:PRO:HG2	1.99	0.44
1:E:727:SER:HB3	1:K:66:ARG:C	2.37	0.44
1:G:901:ASP:HB3	1:J:948:ASN:OD1	2.16	0.44
1:A:68:ILE:CD1	1:E:73:GLU:HA	2.47	0.44
1:J:264:GLN:O	1:J:266:PHE:CD1	2.70	0.44
1:A:445:PHE:CE1	1:C:165:THR:HG21	2.52	0.44
1:J:63:LEU:HD21	1:J:620:PRO:HD3	1.98	0.44
1:K:268:THR:O	1:K:269:THR:HB	2.17	0.44
1:K:777:TYR:OH	1:L:63:LEU:HD21	2.17	0.44
1:G:94:ASP:OD2	1:H:43:LYS:CE	2.66	0.44
1:A:945:SER:C	1:A:947:GLY:N	2.70	0.44
1:K:824:ASN:CG	1:L:121:ASN:HA	2.37	0.44
1:K:539:ASN:ND2	1:K:539:ASN:C	2.68	0.44
1:G:496:ASN:O	1:G:499:THR:HB	2.16	0.44
1:J:496:ASN:O	1:J:499:THR:HB	2.16	0.44
1:K:213:THR:CG2	1:K:213:THR:O	2.63	0.44
1:E:678:ALA:HA	1:E:870:TRP:O	2.17	0.44
1:K:332:PHE:CE1	1:K:387:ASN:HB2	2.52	0.44
1:H:348:ALA:O	1:H:579:THR:HG22	2.17	0.44
1:I:89:ASP:O	1:I:91:ARG:HG3	2.17	0.44
1:I:348:ALA:O	1:I:579:THR:HG22	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:297:THR:HG22	1:A:320:PRO:HA	1.99	0.44
1:G:884:LEU:O	1:H:50:ALA:HB3	2.17	0.44
1:G:945:SER:H	4:P:28:SER:HA	1.82	0.44
1:K:939:TYR:N	4:O:32:ASN:ND2	2.65	0.44
1:H:894:ALA:HB2	1:I:5:MET:SD	2.51	0.44
1:K:19:ALA:CB	1:K:23:LEU:HD11	2.40	0.44
1:K:193:LYS:HD2	1:K:193:LYS:HA	1.75	0.44
1:I:188:GLU:HG3	1:I:193:LYS:HD3	1.97	0.44
1:J:574:LEU:HG	1:J:929:ARG:NE	2.25	0.44
1:J:87:VAL:O	1:J:575:PRO:HA	2.16	0.44
1:A:425:LEU:CD2	1:C:267:SER:O	2.63	0.44
1:D:49:VAL:HA	1:F:884:LEU:HB3	1.98	0.44
1:B:519:LEU:HD13	1:C:115:TYR:CE1	2.52	0.44
1:J:824:ASN:OD1	1:K:121:ASN:C	2.56	0.44
1:E:496:ASN:O	1:E:499:THR:HB	2.16	0.44
1:D:678:ALA:HA	1:D:870:TRP:O	2.17	0.44
1:A:678:ALA:HA	1:A:870:TRP:O	2.17	0.44
1:G:678:ALA:HA	1:G:870:TRP:O	2.17	0.44
1:B:89:ASP:O	1:B:91:ARG:HG3	2.17	0.44
1:G:469:ARG:CZ	1:I:409:LEU:HD13	2.47	0.44
1:H:600:LEU:HB3	1:H:605:ALA:HB3	1.99	0.44
1:G:682:LEU:HD22	1:G:705:PRO:HB2	1.99	0.44
1:L:6:MET:HB3	1:L:7:PRO:HD3	1.99	0.44
4:O:205:PRO:O	4:O:208:TYR:CZ	2.70	0.44
1:K:671:TRP:CH2	1:K:900:LEU:HD22	2.52	0.44
1:D:177:ASN:HA	1:D:217:HIS:CD2	2.51	0.44
1:G:240:THR:HB	1:G:249:LEU:CD2	2.48	0.44
1:C:19:ALA:CB	1:C:23:LEU:HD11	2.40	0.44
1:B:633:LEU:HD21	1:C:27:LEU:HD21	1.99	0.44
1:C:721:ALA:HA	1:C:741:GLU:HB2	1.99	0.44
1:D:719:LYS:HZ2	5:R:22:TRP:CB	2.29	0.44
1:B:19:ALA:CB	1:B:23:LEU:HD11	2.40	0.44
1:C:91:ARG:CZ	4:O:226:TYR:HD1	2.31	0.44
3:N:93:LEU:CD1	3:N:94:VAL:N	2.74	0.44
1:K:178:ILE:HG21	1:K:281:PRO:CG	2.48	0.44
1:E:808:THR:CG2	5:Q:115:ASN:ND2	2.80	0.44
1:B:187:VAL:HA	1:B:193:LYS:H	1.80	0.44
1:G:191:THR:HA	1:G:192:PRO:HD3	1.75	0.44
1:B:63:LEU:HD21	1:B:620:PRO:HD3	1.98	0.44
1:D:453:VAL:HG13	1:F:218:ALA:CB	2.48	0.44
1:D:63:LEU:HD21	1:D:620:PRO:HD3	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:762:LYS:HE2	1:L:615:TYR:CD2	2.52	0.44
1:J:170:GLN:HA	1:K:452:ARG:O	2.16	0.44
1:G:752:GLY:HA2	1:H:103:ARG:HD2	1.99	0.44
1:D:115:TYR:CZ	1:F:519:LEU:HD13	2.51	0.44
1:D:824:ASN:CG	1:E:121:ASN:HA	2.38	0.44
1:B:680:THR:CG2	1:B:714:ASN:OD1	2.63	0.44
1:D:451:ILE:CD1	1:F:285:LEU:HD11	2.47	0.44
1:H:636:ASP:O	1:H:926:ARG:NH1	2.47	0.44
1:H:204:GLN:H	1:H:204:GLN:HG3	1.37	0.44
1:H:297:THR:HG22	1:H:320:PRO:HA	1.99	0.44
1:I:654:PRO:HA	1:I:914:LEU:HD23	1.98	0.44
1:L:682:LEU:HD22	1:L:705:PRO:HB2	1.99	0.44
1:J:58:ASP:HB2	4:P:98:GLU:HB3	2.00	0.44
1:A:12:MET:SD	4:O:34:MET:HE1	2.56	0.44
1:L:4:SER:HA	1:L:5:MET:HA	1.45	0.44
4:O:12:SER:HB2	4:O:21:ALA:HB3	1.99	0.44
1:G:669:ARG:NH1	4:P:28:SER:HB3	2.33	0.44
1:E:178:ILE:CD1	1:E:284:VAL:HG23	2.37	0.44
1:J:240:THR:HB	1:J:249:LEU:CD2	2.48	0.44
1:F:89:ASP:O	1:F:91:ARG:HG3	2.17	0.44
1:D:445:PHE:CA	1:F:165:THR:O	2.61	0.44
1:C:930:PRO:HB2	4:O:27:TYR:CD2	2.53	0.44
1:A:430:PRO:HG3	1:C:180:LYS:HE3	1.91	0.44
1:D:574:LEU:HG	1:D:929:ARG:NE	2.24	0.44
1:E:61:GLN:NE2	1:E:623:HIS:CE1	2.80	0.44
1:K:311:ARG:HH12	1:L:211:TYR:HE1	1.64	0.44
1:F:213:THR:CG2	1:F:213:THR:O	2.63	0.44
1:I:678:ALA:HA	1:I:870:TRP:O	2.17	0.44
1:K:348:ALA:O	1:K:579:THR:HG22	2.17	0.44
1:E:682:LEU:HD22	1:E:705:PRO:HB2	1.99	0.44
1:H:409:LEU:HD23	1:I:833:PRO:CB	2.47	0.44
1:J:405:THR:HG21	1:J:465:ALA:HA	1.98	0.44
1:F:297:THR:HG22	1:F:320:PRO:HA	2.00	0.44
1:J:660:THR:OG1	5:R:130:ALA:HB2	2.16	0.44
1:K:890:ASN:HD22	1:K:892:LEU:HB3	1.78	0.44
1:K:936:GLU:HB3	4:O:37:GLY:N	2.32	0.44
1:A:240:THR:HB	1:A:249:LEU:CD2	2.48	0.44
1:E:432:THR:CG2	1:E:433:GLY:N	2.79	0.44
1:L:240:THR:HB	1:L:249:LEU:CD2	2.48	0.44
1:E:894:ALA:HB2	1:F:5:MET:SD	2.48	0.44
1:G:762:LYS:HD3	1:H:99:TYR:OH	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:740:ASN:CG	1:E:361:GLN:CG	2.86	0.44
1:J:188:GLU:HG3	1:J:193:LYS:HD3	1.97	0.44
1:A:63:LEU:HD21	1:A:620:PRO:HD3	1.98	0.44
1:I:282:LYS:O	1:I:283:VAL:CG2	2.65	0.44
1:H:282:LYS:O	1:H:283:VAL:CG2	2.64	0.44
2:M:44:ARG:NE	3:N:65:ARG:CD	2.60	0.44
1:J:362:ASP:CB	1:J:941:ARG:HH22	2.17	0.44
1:I:204:GLN:H	1:I:204:GLN:HG3	1.37	0.44
4:O:17:MET:CE	4:O:19:LEU:HD21	2.48	0.44
1:K:570:ASN:HB3	1:L:42:ASN:HD21	1.83	0.44
1:D:570:ASN:O	1:E:43:LYS:HD3	2.17	0.44
1:I:213:THR:CG2	1:I:213:THR:O	2.63	0.44
1:K:678:ALA:HA	1:K:870:TRP:O	2.17	0.44
1:G:348:ALA:O	1:G:579:THR:HG22	2.17	0.44
4:P:12:SER:HB2	4:P:21:ALA:HB3	1.99	0.44
2:M:488:GLN:HB3	2:M:494:HIS:NE2	2.32	0.44
1:F:405:THR:HG21	1:F:465:ALA:HA	1.98	0.44
1:C:636:ASP:O	1:C:926:ARG:NH1	2.47	0.44
4:O:7:THR:CB	4:O:25:GLN:CG	2.78	0.44
1:G:346:VAL:HB	1:G:581:GLU:HB3	2.00	0.44
1:G:669:ARG:HA	4:P:10:MET:CE	2.48	0.44
4:P:211:GLN:HG2	4:P:211:GLN:H	1.52	0.44
1:G:943:PRO:CA	4:P:28:SER:O	2.65	0.44
1:J:431:LYS:HB3	1:J:431:LYS:HE2	1.77	0.44
1:D:178:ILE:HG21	1:D:281:PRO:CG	2.47	0.44
1:J:755:VAL:HG11	1:J:762:LYS:HG2	1.97	0.44
1:J:755:VAL:HG12	1:K:560:GLN:CD	2.38	0.44
1:C:737:LEU:HD23	1:C:753:TYR:OH	2.16	0.44
3:N:275:PHE:CE1	4:O:62:THR:OG1	2.70	0.44
1:L:176:ILE:HD12	1:L:186:GLY:HA2	2.00	0.44
1:H:699:THR:HG21	5:S:31:GLY:O	2.17	0.44
1:D:748:VAL:C	1:D:750:GLY:H	2.21	0.44
1:I:268:THR:CG2	1:I:268:THR:O	2.60	0.44
1:H:521:ALA:CA	1:I:551:ASN:HB3	2.48	0.44
1:A:43:LYS:CD	1:C:570:ASN:O	2.65	0.44
1:K:859:THR:OG1	1:L:556:PRO:CD	2.60	0.44
4:O:3:LYS:O	4:O:4:GLU:HB2	2.17	0.44
1:G:824:ASN:CG	1:H:121:ASN:HA	2.38	0.44
1:H:332:PHE:CE1	1:H:387:ASN:HB2	2.52	0.44
1:D:348:ALA:O	1:D:579:THR:HG22	2.17	0.44
1:E:348:ALA:O	1:E:579:THR:HG22	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:343:ASN:ND2	1:F:343:ASN:N	2.66	0.44
1:I:297:THR:HG22	1:I:320:PRO:HA	2.00	0.44
1:D:384:SER:OG	1:F:799:PRO:HG3	2.16	0.44
2:M:438:TYR:CD1	2:M:462:VAL:HG11	2.52	0.44
1:C:682:LEU:HD22	1:C:705:PRO:HB2	1.99	0.44
1:G:467:LEU:CD2	1:I:464:ASN:HD21	2.31	0.44
1:F:948:ASN:CB	1:G:358:VAL:HG13	2.22	0.44
1:G:633:LEU:HD21	1:H:27:LEU:HD21	2.00	0.44
1:G:891:LEU:O	1:G:895:ASN:CG	2.55	0.44
1:L:860:GLN:HG2	5:Q:49:TYR:CE2	2.53	0.44
1:A:178:ILE:HB	1:A:281:PRO:HG2	1.99	0.44
1:D:178:ILE:HG23	1:D:284:VAL:HG21	2.00	0.44
1:D:240:THR:HB	1:D:249:LEU:CD2	2.48	0.44
1:K:6:MET:HE3	1:K:7:PRO:HD2	2.00	0.44
1:G:735:ARG:HA	1:H:61:GLN:O	2.17	0.44
2:M:101:TYR:CE2	2:M:105:GLU:HG2	2.53	0.44
3:N:271:ASP:OD2	4:O:61:ILE:HD11	2.12	0.44
1:J:176:ILE:HD12	1:J:186:GLY:HA2	2.00	0.44
1:D:176:ILE:HD12	1:D:186:GLY:HA2	2.00	0.44
1:D:747:SER:O	1:D:747:SER:OG	2.30	0.44
1:D:551:ASN:HB3	1:F:521:ALA:CA	2.48	0.44
1:A:755:VAL:HG11	1:A:762:LYS:HG2	1.97	0.44
1:G:748:VAL:HA	1:G:751:GLU:CG	2.48	0.44
1:F:748:VAL:HA	1:F:751:GLU:CG	2.48	0.44
1:A:304:THR:HG22	1:A:306:LYS:N	2.23	0.44
1:J:202:GLU:CD	1:L:820:HIS:HD2	2.21	0.44
1:F:691:GLY:O	1:G:77:TYR:HE2	2.01	0.44
3:N:252:THR:HG22	3:N:253:TYR:N	2.32	0.44
3:N:267:GLN:O	3:N:270:VAL:HG22	2.17	0.44
1:A:639:ASP:OD2	1:A:928:HIS:HD2	2.01	0.44
1:J:348:ALA:O	1:J:579:THR:HG22	2.17	0.44
2:M:480:ALA:C	2:M:482:TYR:H	2.21	0.44
1:H:404:GLY:HA3	1:I:116:SER:O	2.18	0.44
1:E:730:TRP:CG	1:E:731:PRO:HA	2.53	0.44
1:I:682:LEU:HD22	1:I:705:PRO:HB2	1.99	0.44
1:A:12:MET:O	1:A:13:HIS:HB2	2.18	0.44
1:F:669:ARG:HB2	1:G:82:ARG:NH2	2.26	0.44
1:G:639:ASP:OD2	1:G:928:HIS:HD2	2.01	0.44
1:J:103:ARG:NH2	1:L:751:GLU:HB2	2.33	0.44
1:L:861:LYS:HE2	1:L:861:LYS:HB2	1.62	0.44
1:G:432:THR:CG2	1:G:433:GLY:N	2.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:432:THR:HG22	1:K:433:GLY:N	2.33	0.44
1:C:432:THR:CG2	1:C:433:GLY:N	2.80	0.44
1:D:257:LEU:CB	1:D:258:GLU:CA	2.30	0.44
1:G:723:THR:OG1	1:J:947:GLY:O	2.21	0.44
1:B:638:ASN:OD1	1:C:24:SER:N	2.51	0.44
1:J:24:SER:OG	1:L:638:ASN:ND2	2.50	0.44
5:S:22:TRP:HB2	5:S:25:VAL:HG23	2.00	0.44
4:O:160:PRO:O	4:O:161:SER:CB	2.66	0.44
1:B:176:ILE:HD12	1:B:186:GLY:HA2	2.00	0.44
1:D:746:ARG:HG3	1:D:761:THR:HG22	1.99	0.44
1:E:777:TYR:OH	1:F:63:LEU:HD21	2.17	0.44
1:H:943:PRO:O	1:H:944:PHE:HB2	2.17	0.44
1:J:572:LEU:HD22	1:K:40:LEU:HD22	1.98	0.44
1:I:346:VAL:HB	1:I:581:GLU:HB3	2.00	0.44
1:K:204:GLN:H	1:K:204:GLN:HG3	1.37	0.44
1:B:36:THR:OG1	1:B:37:TYR:CD2	2.70	0.44
1:G:879:MET:SD	1:H:619:PHE:HE1	2.41	0.44
1:E:36:THR:OG1	1:E:37:TYR:CD2	2.70	0.44
1:J:823:ASN:HD21	1:K:120:TYR:HA	1.82	0.44
1:K:824:ASN:OD1	1:L:121:ASN:C	2.56	0.44
1:I:639:ASP:OD2	1:I:928:HIS:HD2	2.01	0.44
1:D:50:ALA:O	1:F:889:GLN:OE1	2.36	0.44
2:M:55:ILE:HG21	2:M:67:THR:HG21	2.00	0.44
1:B:730:TRP:CG	1:B:731:PRO:HA	2.53	0.44
1:F:682:LEU:HD22	1:F:705:PRO:HB2	1.99	0.44
1:A:116:SER:O	1:C:404:GLY:HA3	2.18	0.44
1:A:385:MET:HA	1:C:756:ALA:HA	1.98	0.44
1:G:883:ALA:CB	1:H:48:THR:OG1	2.66	0.44
1:D:53:HIS:O	1:D:54:ASP:HB2	2.18	0.44
1:K:297:THR:HG22	1:K:320:PRO:HA	2.00	0.44
1:K:53:HIS:O	1:K:54:ASP:HB2	2.18	0.44
1:B:522:ARG:HB2	1:C:547:MET:SD	2.58	0.44
1:L:383:PHE:HB3	1:L:388:GLN:HB3	2.00	0.44
3:N:193:ARG:O	3:N:194:GLN:CG	2.66	0.44
1:K:949:ALA:CA	4:O:30:ARG:HH11	2.28	0.44
1:H:24:SER:O	1:H:28:VAL:HG23	2.18	0.44
1:H:8:GLN:OE1	4:P:47:ILE:HD12	2.18	0.44
1:K:671:TRP:CD1	1:K:898:HIS:CE1	3.06	0.44
1:B:428:VAL:HG13	1:B:438:TRP:HB3	2.00	0.44
1:K:256:LYS:HB2	1:K:257:LEU:HA	2.00	0.44
1:F:629:LEU:HD12	1:F:632:MET:SD	2.57	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:638:ASN:ND2	1:K:24:SER:OG	2.50	0.44
1:K:22:TYR:HE1	1:K:23:LEU:HD21	1.66	0.44
1:L:19:ALA:CB	1:L:23:LEU:HD11	2.40	0.44
1:K:178:ILE:HB	1:K:281:PRO:HG2	2.00	0.44
1:C:850:ILE:CA	1:C:854:ALA:HB2	2.48	0.44
1:K:176:ILE:HD12	1:K:186:GLY:HA2	2.00	0.44
1:F:188:GLU:HG3	1:F:193:LYS:HD3	1.97	0.44
1:E:850:ILE:CA	1:E:854:ALA:HB2	2.48	0.44
1:H:853:THR:CB	1:I:295:PRO:HB3	2.48	0.44
5:Q:104:LEU:CD1	5:T:103:LEU:CB	2.95	0.44
1:K:850:ILE:CA	1:K:854:ALA:HB2	2.48	0.44
1:B:282:LYS:O	1:B:283:VAL:CG2	2.65	0.44
1:H:850:ILE:CA	1:H:854:ALA:HB2	2.48	0.44
1:B:755:VAL:HG11	1:B:762:LYS:HG2	1.97	0.44
1:B:850:ILE:CA	1:B:854:ALA:HB2	2.48	0.44
1:E:774:ASN:HD21	1:E:880:SER:N	1.95	0.44
1:J:40:LEU:CD2	1:L:572:LEU:HD22	2.47	0.44
1:L:574:LEU:HG	1:L:929:ARG:NE	2.24	0.44
1:K:346:VAL:HB	1:K:581:GLU:HB3	2.00	0.44
1:D:519:LEU:HD12	1:E:119:ALA:CB	2.42	0.44
1:I:942:THR:HA	1:I:943:PRO:C	2.36	0.44
1:L:53:HIS:O	1:L:54:ASP:HB2	2.18	0.44
1:B:204:GLN:H	1:B:204:GLN:HG3	1.37	0.44
1:E:861:LYS:HB2	1:E:861:LYS:HE2	1.62	0.44
1:D:639:ASP:OD2	1:D:928:HIS:HD2	2.01	0.44
1:L:678:ALA:HA	1:L:870:TRP:O	2.17	0.44
1:G:383:PHE:HB2	1:I:782:ILE:CG1	2.48	0.44
1:A:53:HIS:O	1:A:54:ASP:HB2	2.18	0.44
1:J:43:LYS:HA	1:L:642:PHE:CE2	2.53	0.44
1:J:53:HIS:O	1:J:54:ASP:HB2	2.18	0.44
2:M:544:THR:HG22	2:M:545:ASP:N	2.33	0.44
1:I:330:ASP:O	1:I:333:ILE:HG13	2.18	0.44
1:C:628:THR:CG2	4:O:208:TYR:CE2	3.01	0.43
1:G:358:VAL:CG2	4:P:35:SER:OG	2.65	0.43
1:G:942:THR:CB	4:P:29:THR:HA	2.48	0.43
1:B:431:LYS:HB3	1:B:431:LYS:HE2	1.76	0.43
1:L:256:LYS:HB2	1:L:257:LEU:HA	2.00	0.43
1:H:62:ARG:CZ	1:J:354:LEU:CG	2.91	0.43
3:N:27:TRP:HZ3	3:N:31:MET:CG	2.30	0.43
1:C:739:PRO:HD2	1:E:341:THR:CA	2.47	0.43
1:K:638:ASN:CG	1:L:24:SER:HG	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:24:SER:O	1:I:28:VAL:HG23	2.18	0.43
1:G:617:THR:HG22	1:I:777:TYR:HD1	1.83	0.43
1:A:850:ILE:CA	1:A:854:ALA:HB2	2.48	0.43
1:A:188:GLU:HG3	1:A:193:LYS:HD3	1.97	0.43
1:A:187:VAL:CB	1:A:192:PRO:HA	2.48	0.43
1:G:850:ILE:CA	1:G:854:ALA:HB2	2.48	0.43
1:L:850:ILE:CA	1:L:854:ALA:HB2	2.48	0.43
1:J:850:ILE:CA	1:J:854:ALA:HB2	2.48	0.43
1:A:362:ASP:CB	1:A:941:ARG:HH22	2.17	0.43
1:B:581:GLU:OE2	2:M:455:ARG:CB	2.63	0.43
1:K:748:VAL:HA	1:K:751:GLU:CG	2.48	0.43
1:B:519:LEU:HD12	1:C:119:ALA:CB	2.41	0.43
1:C:748:VAL:HA	1:C:751:GLU:CG	2.48	0.43
3:N:214:VAL:HG22	3:N:253:TYR:HB2	2.00	0.43
1:A:285:LEU:HD11	1:B:451:ILE:CD1	2.45	0.43
1:G:208:SER:CB	1:I:301:TYR:OH	2.66	0.43
1:G:45:ARG:CB	1:I:641:SER:OG	2.66	0.43
2:M:468:LEU:HG	2:M:470:VAL:HG23	1.99	0.43
1:H:730:TRP:CG	1:H:731:PRO:HA	2.53	0.43
1:H:383:PHE:HB3	1:H:388:GLN:HB3	2.00	0.43
1:B:297:THR:HG22	1:B:320:PRO:HA	2.00	0.43
1:C:53:HIS:O	1:C:54:ASP:HB2	2.18	0.43
1:D:522:ARG:HB2	1:E:547:MET:SD	2.57	0.43
1:A:600:LEU:HB3	1:A:605:ALA:HB3	2.00	0.43
1:B:168:PHE:HA	1:C:450:GLU:O	2.18	0.43
1:L:5:MET:CE	4:O:29:THR:HB	2.44	0.43
1:D:11:TYR:OH	1:F:938:VAL:HG21	2.18	0.43
1:G:636:ASP:O	1:G:926:ARG:NH1	2.47	0.43
1:G:874:PHE:CE2	1:G:893:TYR:CZ	3.06	0.43
1:G:633:LEU:HD23	1:H:27:LEU:HD21	1.98	0.43
4:P:44:VAL:HA	4:P:47:ILE:CG1	2.48	0.43
1:H:4:SER:HG	4:P:55:LEU:HD13	1.78	0.43
1:B:256:LYS:HB2	1:B:257:LEU:HA	2.00	0.43
1:H:178:ILE:HG22	1:H:281:PRO:HG3	2.00	0.43
1:G:256:LYS:HB2	1:G:257:LEU:HA	2.00	0.43
1:C:430:PRO:HA	1:C:438:TRP:CD1	2.52	0.43
1:J:894:ALA:O	1:J:895:ASN:C	2.56	0.43
1:E:728:VAL:HA	1:K:62:ARG:HH11	1.82	0.43
1:G:693:GLY:O	1:G:694:TYR:HB2	2.18	0.43
1:J:822:HIS:CE1	1:K:246:GLN:NE2	2.85	0.43
1:F:19:ALA:CB	1:F:23:LEU:HD11	2.40	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:737:LEU:HB3	1:C:753:TYR:CZ	2.52	0.43
5:S:108:ASP:O	5:S:111:THR:HG22	2.17	0.43
1:J:210:TRP:CD1	1:L:315:GLY:HA2	2.53	0.43
1:I:748:VAL:HA	1:I:751:GLU:CG	2.48	0.43
1:K:666:ILE:O	1:K:667:PRO:C	2.57	0.43
5:T:117:VAL:O	5:T:121:LEU:HB2	2.17	0.43
1:E:176:ILE:HD12	1:E:186:GLY:HA2	2.00	0.43
1:I:178:ILE:CD1	1:I:284:VAL:HG23	2.41	0.43
1:C:176:ILE:HD12	1:C:186:GLY:HA2	2.00	0.43
1:C:246:GLN:CG	1:C:290:VAL:CG1	2.85	0.43
1:K:755:VAL:HG11	1:K:762:LYS:HG2	1.97	0.43
1:A:762:LYS:NZ	1:B:101:ASP:OD2	2.45	0.43
1:D:556:PRO:CD	1:F:859:THR:OG1	2.58	0.43
1:A:748:VAL:HA	1:A:751:GLU:CG	2.48	0.43
1:B:751:GLU:O	1:C:558:HIS:ND1	2.51	0.43
1:B:752:GLY:O	1:C:558:HIS:HE1	2.02	0.43
1:D:908:PRO:HG3	5:R:43:ASN:O	2.17	0.43
1:K:17:GLN:CD	4:P:179:ARG:HA	2.38	0.43
1:G:619:PHE:CZ	1:I:877:ASN:ND2	2.85	0.43
2:M:67:THR:O	2:M:563:PRO:HD2	2.18	0.43
5:R:115:ASN:O	5:R:119:GLN:HG3	2.18	0.43
1:G:552:GLY:N	1:I:803:GLN:OE1	2.47	0.43
1:E:330:ASP:O	1:E:333:ILE:HG13	2.19	0.43
1:F:330:ASP:O	1:F:333:ILE:HG13	2.19	0.43
1:L:730:TRP:CG	1:L:731:PRO:HA	2.53	0.43
1:F:53:HIS:O	1:F:54:ASP:HB2	2.18	0.43
1:J:898:HIS:CD2	4:P:226:TYR:CE2	3.05	0.43
1:L:5:MET:CE	4:O:29:THR:CB	2.94	0.43
1:G:670:ASN:HB2	4:P:10:MET:HE3	2.00	0.43
1:K:566:PHE:HE1	1:K:925:VAL:HG23	1.84	0.43
1:K:939:TYR:CB	4:O:32:ASN:HD22	2.17	0.43
1:K:66:ARG:CD	1:K:615:TYR:CZ	2.97	0.43
1:E:73:GLU:HG3	1:E:80:LYS:HB3	2.01	0.43
1:B:939:TYR:CB	1:B:947:GLY:O	2.66	0.43
1:E:24:SER:O	1:E:28:VAL:HG23	2.19	0.43
1:G:22:TYR:HE1	1:G:23:LEU:CD2	2.14	0.43
1:J:24:SER:HG	1:J:27:LEU:HB2	1.83	0.43
1:B:191:THR:HA	1:B:192:PRO:HD3	1.75	0.43
1:H:737:LEU:HB2	1:H:753:TYR:HE2	1.73	0.43
1:K:673:ALA:HB2	1:L:9:TRP:HZ2	1.77	0.43
1:A:824:ASN:OD1	1:B:121:ASN:CA	2.65	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:600:LEU:HB3	1:J:605:ALA:HB3	2.00	0.43
1:B:270:GLU:O	1:B:271:ALA:HB3	2.19	0.43
1:J:270:GLU:O	1:J:271:ALA:HB3	2.18	0.43
1:B:53:HIS:O	1:B:54:ASP:HB2	2.18	0.43
2:M:512:THR:HB	2:M:513:ILE:HD12	2.00	0.43
1:B:409:LEU:HD23	1:C:833:PRO:CB	2.48	0.43
1:E:53:HIS:O	1:E:54:ASP:HB2	2.18	0.43
1:F:730:TRP:CG	1:F:731:PRO:HA	2.53	0.43
4:O:41:ILE:HG23	4:O:42:SER:N	2.33	0.43
1:F:610:ASP:CB	5:T:99:LYS:HD3	2.49	0.43
1:F:639:ASP:OD2	1:F:928:HIS:HD2	2.01	0.43
1:H:22:TYR:HE1	1:H:23:LEU:CD2	2.14	0.43
1:L:178:ILE:CD1	1:L:284:VAL:HG23	2.36	0.43
1:G:180:LYS:HD3	1:H:430:PRO:CG	2.44	0.43
1:I:431:LYS:HE2	1:I:431:LYS:HB3	1.75	0.43
1:I:432:THR:CG2	1:I:433:GLY:N	2.79	0.43
1:C:256:LYS:HB2	1:C:257:LEU:HA	2.00	0.43
1:B:178:ILE:HG21	1:B:281:PRO:CG	2.48	0.43
1:L:432:THR:CG2	1:L:433:GLY:N	2.81	0.43
1:I:240:THR:HB	1:I:249:LEU:CD2	2.48	0.43
1:J:256:LYS:HB2	1:J:257:LEU:HA	2.00	0.43
1:F:178:ILE:CD1	1:F:284:VAL:HG23	2.37	0.43
1:J:892:LEU:O	1:J:895:ASN:ND2	2.39	0.43
1:J:874:PHE:CE2	1:J:893:TYR:CE1	3.07	0.43
4:P:17:MET:CE	4:P:19:LEU:HD21	2.48	0.43
1:K:240:THR:HB	1:K:249:LEU:CD2	2.48	0.43
1:B:941:ARG:NH1	2:M:108:THR:OG1	2.51	0.43
1:B:940:LEU:C	1:B:947:GLY:HA2	2.38	0.43
1:G:24:SER:O	1:G:28:VAL:HG23	2.19	0.43
1:J:24:SER:O	1:J:28:VAL:HG23	2.18	0.43
1:I:748:VAL:H	5:T:50:GLU:HG3	1.84	0.43
1:J:105:VAL:HG11	5:Q:56:PRO:CB	2.48	0.43
1:D:850:ILE:CA	1:D:854:ALA:HB2	2.48	0.43
1:A:218:ALA:CB	1:B:453:VAL:HG13	2.48	0.43
1:D:103:ARG:HD2	1:F:752:GLY:CA	2.40	0.43
1:H:346:VAL:HB	1:H:581:GLU:HB3	2.00	0.43
1:F:346:VAL:HB	1:F:581:GLU:HB3	2.00	0.43
1:E:822:HIS:HB3	1:F:204:GLN:HG2	1.99	0.43
1:A:680:THR:CG2	1:A:714:ASN:OD1	2.63	0.43
1:B:861:LYS:HB2	1:B:861:LYS:HE2	1.62	0.43
1:F:222:VAL:HG22	1:F:223:LEU:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:639:ASP:OD2	1:B:928:HIS:HD2	2.01	0.43
1:A:799:PRO:HG3	1:B:384:SER:CB	2.48	0.43
1:G:53:HIS:O	1:G:54:ASP:HB2	2.18	0.43
2:M:408:LEU:O	2:M:412:TYR:HB2	2.18	0.43
1:G:330:ASP:O	1:G:333:ILE:HG13	2.18	0.43
1:E:383:PHE:HB3	1:E:388:GLN:HB3	2.00	0.43
2:M:133:ASN:HB2	2:M:175:TYR:CD2	2.53	0.43
1:A:12:MET:HE2	1:C:938:VAL:O	2.18	0.43
4:O:199:ASN:HB3	4:O:202:SER:HB2	1.99	0.43
1:F:358:VAL:CG1	1:G:341:THR:HB	2.48	0.43
1:G:666:ILE:O	1:G:667:PRO:C	2.54	0.43
1:H:24:SER:HG	1:H:27:LEU:HB3	1.84	0.43
1:J:432:THR:HG22	1:J:433:GLY:N	2.34	0.43
1:H:432:THR:HG22	1:H:433:GLY:N	2.34	0.43
1:H:183:ILE:CG2	1:H:284:VAL:HB	2.49	0.43
1:D:256:LYS:HB2	1:D:257:LEU:HA	2.00	0.43
1:J:945:SER:O	1:J:947:GLY:N	2.52	0.43
1:G:903:THR:CB	1:J:948:ASN:HA	2.47	0.43
1:C:24:SER:O	1:C:28:VAL:HG23	2.18	0.43
1:H:315:GLY:HA2	1:I:210:TRP:CD1	2.54	0.43
1:I:566:PHE:HE1	1:I:925:VAL:HG23	1.84	0.43
3:N:275:PHE:CZ	4:O:62:THR:CG2	2.99	0.43
1:H:777:TYR:OH	1:I:63:LEU:HD21	2.18	0.43
5:R:107:LEU:CD1	5:S:125:ARG:CB	2.89	0.43
1:A:43:LYS:O	1:C:640:GLN:HB3	2.19	0.43
1:K:574:LEU:HG	1:K:929:ARG:NE	2.24	0.43
1:L:943:PRO:O	1:L:944:PHE:HB2	2.17	0.43
1:D:861:LYS:HB2	1:D:861:LYS:HE2	1.62	0.43
1:J:639:ASP:OD2	1:J:928:HIS:HD2	2.01	0.43
1:E:747:SER:O	1:E:749:ASP:OD1	2.35	0.43
1:J:121:ASN:HA	1:L:824:ASN:CG	2.39	0.43
1:H:827:PHE:CE2	1:I:124:ALA:CB	3.00	0.43
1:L:392:SER:H	1:L:539:ASN:ND2	2.17	0.43
1:L:639:ASP:OD2	1:L:928:HIS:HD2	2.01	0.43
1:A:522:ARG:HB2	1:B:547:MET:SD	2.58	0.43
1:E:404:GLY:HA3	1:F:116:SER:O	2.18	0.43
1:J:168:PHE:HA	1:K:450:GLU:O	2.18	0.43
1:K:600:LEU:HB3	1:K:605:ALA:HB3	2.00	0.43
1:D:270:GLU:O	1:D:271:ALA:HB3	2.19	0.43
1:F:600:LEU:HB3	1:F:605:ALA:HB3	2.00	0.43
1:I:53:HIS:O	1:I:54:ASP:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:222:VAL:HG22	1:B:223:LEU:N	2.34	0.43
1:A:446:SER:C	1:A:448:LYS:H	2.22	0.43
1:A:572:LEU:HD22	1:B:40:LEU:CD2	2.47	0.43
1:L:178:ILE:HG22	1:L:281:PRO:HG3	2.01	0.43
1:H:256:LYS:HB2	1:H:257:LEU:HA	2.00	0.43
1:B:432:THR:HG22	1:B:433:GLY:N	2.34	0.43
1:F:256:LYS:HB2	1:F:257:LEU:HA	2.00	0.43
1:A:431:LYS:HB3	1:A:431:LYS:HE2	1.68	0.43
1:H:178:ILE:HG21	1:H:281:PRO:CG	2.49	0.43
1:C:340:SER:O	1:C:343:ASN:N	2.51	0.43
1:E:727:SER:CB	1:K:66:ARG:C	2.87	0.43
1:D:755:VAL:HG11	1:D:762:LYS:HG2	1.97	0.43
1:E:269:THR:CG2	1:E:269:THR:O	2.65	0.43
1:C:183:ILE:HG23	1:C:284:VAL:HB	2.01	0.43
1:A:176:ILE:HD12	1:A:186:GLY:HA2	2.00	0.43
1:I:178:ILE:CG2	1:I:281:PRO:HG3	2.48	0.43
5:R:99:LYS:O	5:R:103:LEU:HB2	2.18	0.43
1:J:748:VAL:HA	1:J:751:GLU:CG	2.48	0.43
3:N:143:LEU:O	3:N:147:LEU:HG	2.18	0.43
1:J:859:THR:OG1	1:K:556:PRO:CD	2.58	0.43
1:E:346:VAL:HB	1:E:581:GLU:HB3	2.00	0.43
1:L:346:VAL:HB	1:L:581:GLU:HB3	2.00	0.43
1:G:37:TYR:HB2	1:I:619:PHE:CZ	2.54	0.43
1:G:861:LYS:HB2	1:G:861:LYS:HE2	1.62	0.43
1:G:208:SER:HB3	1:I:301:TYR:OH	2.19	0.43
1:D:222:VAL:HG22	1:D:223:LEU:N	2.34	0.43
1:L:545:ARG:NH2	1:L:593:GLN:OE1	2.52	0.43
1:G:383:PHE:HB3	1:G:388:GLN:HB3	2.00	0.43
1:A:467:LEU:CD2	1:C:464:ASN:HD21	2.31	0.43
1:J:330:ASP:O	1:J:333:ILE:HG13	2.19	0.43
2:M:394:ILE:HG22	2:M:402:GLN:HG2	2.00	0.43
1:I:270:GLU:O	1:I:271:ALA:HB3	2.18	0.43
1:B:383:PHE:HB3	1:B:388:GLN:HB3	2.01	0.43
4:O:186:LEU:N	4:O:186:LEU:HD23	2.33	0.43
1:A:404:GLY:HA3	1:B:116:SER:O	2.18	0.43
1:E:270:GLU:O	1:E:271:ALA:HB3	2.19	0.43
1:C:383:PHE:HB3	1:C:388:GLN:HB3	2.00	0.43
1:B:600:LEU:HB3	1:B:605:ALA:HB3	2.00	0.43
1:B:330:ASP:O	1:B:333:ILE:HG13	2.18	0.43
1:G:730:TRP:CG	1:G:731:PRO:HA	2.53	0.43
1:A:730:TRP:CG	1:A:731:PRO:HA	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:211:GLN:H	4:O:211:GLN:HG2	1.48	0.43
1:J:438:TRP:CE3	1:L:281:PRO:HD3	2.52	0.43
1:B:240:THR:HB	1:B:249:LEU:CD2	2.48	0.43
1:A:178:ILE:HG21	1:A:281:PRO:CG	2.47	0.43
1:C:358:VAL:HG11	1:K:341:THR:HB	2.00	0.43
1:C:4:SER:CB	1:C:11:TYR:CD1	3.02	0.43
1:C:730:TRP:CG	1:C:731:PRO:HA	2.53	0.43
1:B:24:SER:O	1:B:28:VAL:HG23	2.19	0.43
1:H:133:GLU:OE2	1:H:264:GLN:OE1	2.37	0.43
1:G:282:LYS:O	1:G:283:VAL:CG2	2.64	0.43
5:R:29:VAL:HG12	5:R:30:MET:N	2.34	0.43
1:H:751:GLU:O	1:I:558:HIS:ND1	2.51	0.43
1:B:824:ASN:CG	1:C:121:ASN:HA	2.39	0.43
1:F:392:SER:H	1:F:539:ASN:ND2	2.17	0.43
1:J:96:ALA:O	1:L:779:GLY:CA	2.66	0.43
1:H:639:ASP:OD2	1:H:928:HIS:HD2	2.01	0.43
1:K:383:PHE:HB3	1:K:388:GLN:HB3	2.00	0.43
1:G:446:SER:C	1:G:448:LYS:H	2.22	0.43
1:H:197:LYS:HG2	1:H:286:TYR:HE2	1.84	0.43
1:G:780:PHE:HB2	1:H:386:TRP:CZ2	2.54	0.43
1:G:60:SER:HA	1:I:733:ASN:HB3	2.00	0.43
1:I:383:PHE:HB3	1:I:388:GLN:HB3	2.01	0.43
1:D:730:TRP:CG	1:D:731:PRO:HA	2.53	0.43
1:D:467:LEU:CD2	1:F:464:ASN:HD21	2.32	0.43
1:H:330:ASP:O	1:H:333:ILE:HG13	2.19	0.43
1:A:24:SER:O	1:A:28:VAL:HG23	2.19	0.43
1:C:639:ASP:OD2	1:C:928:HIS:HD2	2.01	0.43
1:L:8:GLN:CB	4:O:31:ILE:HD11	2.49	0.43
1:F:608:LYS:HD3	5:T:99:LYS:N	2.33	0.43
4:P:51:ARG:HG3	4:P:54:ILE:HD11	2.01	0.43
1:L:3:PRO:CG	4:O:58:GLN:NE2	2.81	0.43
1:C:893:TYR:OH	1:E:950:THR:CA	2.65	0.43
1:F:432:THR:CG2	1:F:433:GLY:N	2.80	0.43
1:K:358:VAL:HG21	4:O:35:SER:OG	2.15	0.43
1:J:948:ASN:OD1	1:J:948:ASN:N	2.48	0.43
1:A:346:VAL:HB	1:A:581:GLU:HB3	2.00	0.43
1:A:68:ILE:HD11	1:E:73:GLU:HA	2.00	0.43
1:B:673:ALA:C	1:B:943:PRO:HD3	2.39	0.43
1:E:809:LYS:CE	5:T:106:GLN:HB3	2.48	0.43
1:K:896:SER:OG	4:O:188:PHE:HE2	2.02	0.43
1:G:264:GLN:O	1:G:266:PHE:CD1	2.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:566:PHE:HE1	1:D:925:VAL:HG23	1.84	0.43
1:H:176:ILE:HD12	1:H:186:GLY:HA2	2.00	0.43
1:G:218:ALA:CB	1:H:453:VAL:HG13	2.48	0.43
1:G:268:THR:O	1:G:268:THR:CG2	2.60	0.43
1:G:61:GLN:O	1:I:735:ARG:HD3	2.19	0.43
1:D:835:MET:HA	1:F:412:TYR:HH	1.76	0.43
1:J:279:LEU:HA	1:J:279:LEU:HD22	1.82	0.43
1:A:42:ASN:HD21	1:C:570:ASN:HB3	1.82	0.43
1:E:734:ASP:CG	1:J:740:ASN:OD1	2.56	0.43
1:E:735:ARG:HA	1:F:62:ARG:HA	2.00	0.43
1:H:103:ARG:NE	1:H:611:SER:OG	2.52	0.43
1:E:170:GLN:HA	1:F:452:ARG:O	2.19	0.43
1:B:346:VAL:HB	1:B:581:GLU:HB3	2.00	0.43
1:B:344:MET:O	2:M:455:ARG:HG3	2.19	0.43
1:E:748:VAL:HA	1:E:751:GLU:CG	2.48	0.43
1:D:519:LEU:HD13	1:E:115:TYR:CE1	2.52	0.43
1:J:636:ASP:O	1:J:926:ARG:NH1	2.47	0.43
1:I:61:GLN:NE2	1:I:623:HIS:CE1	2.80	0.43
1:K:823:ASN:HD21	1:L:120:TYR:HA	1.84	0.43
1:K:392:SER:H	1:K:539:ASN:ND2	2.17	0.43
1:A:545:ARG:NH2	1:A:593:GLN:OE1	2.52	0.43
1:F:545:ARG:NH2	1:F:593:GLN:OE1	2.52	0.43
1:D:600:LEU:HB3	1:D:605:ALA:HB3	2.00	0.43
1:G:409:LEU:HD23	1:H:833:PRO:CB	2.49	0.43
1:C:270:GLU:O	1:C:271:ALA:HB3	2.19	0.43
1:H:53:HIS:O	1:H:54:ASP:HB2	2.18	0.43
1:G:222:VAL:HG22	1:G:223:LEU:N	2.34	0.43
1:K:843:ALA:O	1:L:236:TYR:HA	2.19	0.43
1:C:330:ASP:O	1:C:333:ILE:HG13	2.19	0.43
1:J:730:TRP:CG	1:J:731:PRO:HA	2.53	0.43
1:F:948:ASN:CB	1:G:358:VAL:HA	2.45	0.43
1:L:748:VAL:HG11	5:Q:51:THR:CG2	2.49	0.43
5:Q:29:VAL:HG12	5:Q:30:MET:N	2.34	0.43
1:J:430:PRO:HA	1:J:438:TRP:CD1	2.53	0.43
1:A:256:LYS:HB2	1:A:257:LEU:HA	2.00	0.43
1:D:178:ILE:CG2	1:D:281:PRO:HG3	2.48	0.43
1:J:892:LEU:HA	4:P:215:ASN:HB3	1.99	0.43
1:D:24:SER:O	1:D:28:VAL:HG23	2.18	0.43
1:I:905:GLU:HB2	5:T:22:TRP:CZ3	2.53	0.43
1:A:633:LEU:CD2	1:B:27:LEU:HD21	2.49	0.43
1:B:463:LEU:HD21	1:C:463:LEU:CD2	2.30	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:264:GLN:NE2	1:I:445:PHE:CZ	2.81	0.43
1:H:165:THR:HG21	1:I:445:PHE:CE1	2.54	0.43
1:J:445:PHE:H	1:L:165:THR:HB	1.82	0.43
1:D:853:THR:CB	1:E:295:PRO:HB3	2.48	0.43
1:F:924:VAL:HG12	1:F:925:VAL:H	1.84	0.43
1:F:176:ILE:HD12	1:F:186:GLY:HA2	2.00	0.43
1:J:63:LEU:HD21	1:L:777:TYR:OH	2.19	0.43
1:L:193:LYS:HD2	1:L:193:LYS:HA	1.75	0.43
1:H:589:ASN:ND2	1:H:601:ARG:HG3	2.34	0.43
1:D:747:SER:C	1:D:748:VAL:HG12	2.38	0.43
1:G:400:ILE:CD1	1:G:476:ILE:CD1	2.90	0.43
1:D:25:PRO:HD2	4:P:202:SER:OG	2.18	0.43
2:M:44:ARG:HH21	3:N:65:ARG:CD	2.20	0.43
1:K:651:MET:HG3	1:K:919:PHE:CE1	2.54	0.43
1:K:639:ASP:OD2	1:K:928:HIS:HD2	2.01	0.43
1:J:680:THR:CG2	1:J:714:ASN:OD1	2.63	0.43
1:J:392:SER:H	1:J:539:ASN:ND2	2.17	0.43
1:B:392:SER:H	1:B:539:ASN:ND2	2.17	0.43
2:M:377:PRO:O	2:M:379:ILE:N	2.51	0.43
1:L:222:VAL:HG22	1:L:223:LEU:N	2.34	0.43
1:J:446:SER:C	1:J:448:LYS:H	2.22	0.43
1:G:297:THR:HG22	1:G:320:PRO:HA	2.00	0.43
1:A:383:PHE:HB3	1:A:388:GLN:HB3	2.00	0.43
1:I:730:TRP:CG	1:I:731:PRO:HA	2.53	0.43
1:K:270:GLU:O	1:K:271:ALA:HB3	2.18	0.43
1:J:297:THR:HG22	1:J:320:PRO:HA	2.00	0.43
1:D:383:PHE:HB3	1:D:388:GLN:HB3	2.00	0.43
1:A:330:ASP:O	1:A:333:ILE:HG13	2.18	0.43
1:E:197:LYS:HG2	1:E:286:TYR:HE2	1.84	0.43
1:L:270:GLU:O	1:L:271:ALA:HB3	2.19	0.43
1:I:222:VAL:HG22	1:I:223:LEU:N	2.34	0.43
1:K:409:LEU:HD13	1:L:469:ARG:CZ	2.49	0.43
1:C:297:THR:HG22	1:C:320:PRO:HA	2.00	0.43
1:E:409:LEU:HD23	1:F:833:PRO:CB	2.49	0.43
3:N:193:ARG:CA	4:O:207:HIS:CG	2.95	0.43
1:E:256:LYS:HB2	1:E:257:LEU:HA	2.00	0.43
1:H:432:THR:CG2	1:H:433:GLY:N	2.81	0.43
1:E:431:LYS:HE2	1:E:431:LYS:HB3	1.78	0.43
1:B:178:ILE:HB	1:B:281:PRO:HG2	2.01	0.43
1:K:66:ARG:HB2	1:K:615:TYR:CE1	2.54	0.43
1:B:362:ASP:CB	2:M:108:THR:CG2	2.97	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:748:VAL:CG1	5:T:51:THR:O	2.67	0.43
1:L:264:GLN:O	1:L:266:PHE:CD1	2.72	0.43
1:F:850:ILE:CA	1:F:854:ALA:HB2	2.48	0.43
5:R:110:LEU:HD21	5:S:121:LEU:CD1	2.32	0.43
1:H:690:LEU:O	5:S:21:PRO:CB	2.67	0.43
1:I:929:ARG:CG	1:I:929:ARG:NH1	2.74	0.43
1:J:202:GLU:HA	1:J:203:PRO:HD3	1.92	0.43
1:J:459:MET:HG2	1:K:459:MET:HE2	2.01	0.43
1:J:56:THR:HG21	1:L:876:SER:CB	2.44	0.43
1:K:733:ASN:O	1:L:61:GLN:N	2.47	0.43
1:H:602:VAL:O	1:H:602:VAL:HG13	2.19	0.43
1:J:311:ARG:HH12	1:K:211:TYR:HE1	1.66	0.43
1:G:785:SER:HB3	1:H:381:ARG:NH2	2.34	0.43
2:M:184:MET:O	2:M:188:ILE:HG12	2.19	0.43
1:J:545:ARG:NH2	1:J:593:GLN:OE1	2.52	0.43
1:D:297:THR:HG22	1:D:320:PRO:HA	2.00	0.43
1:A:833:PRO:CB	1:C:409:LEU:HD23	2.48	0.43
1:G:404:GLY:HA3	1:H:116:SER:O	2.19	0.43
1:E:446:SER:C	1:E:448:LYS:H	2.22	0.43
1:E:297:THR:HG22	1:E:320:PRO:HA	2.00	0.43
1:G:270:GLU:O	1:G:271:ALA:HB3	2.19	0.43
1:L:297:THR:HG22	1:L:320:PRO:HA	2.00	0.43
1:A:8:GLN:NE2	4:O:34:MET:HB3	2.33	0.42
1:G:874:PHE:CE2	1:G:893:TYR:CE1	3.07	0.42
1:J:940:LEU:CD2	1:K:8:GLN:HB3	2.49	0.42
1:L:905:GLU:HB2	5:Q:22:TRP:HZ3	1.80	0.42
1:E:240:THR:HB	1:E:249:LEU:CD2	2.48	0.42
1:L:759:ASN:HB3	5:Q:50:GLU:CB	2.49	0.42
1:E:437:GLY:C	1:E:438:TRP:CD1	2.92	0.42
1:K:924:VAL:CG1	1:K:925:VAL:N	2.82	0.42
1:E:727:SER:HB3	1:K:67:PHE:HA	2.01	0.42
1:K:315:GLY:HA2	1:L:210:TRP:CD1	2.54	0.42
1:L:892:LEU:HD13	4:P:103:ASN:C	2.28	0.42
1:H:687:THR:O	5:S:26:ARG:NE	2.51	0.42
1:G:853:THR:CG2	1:H:293:GLU:OE1	2.64	0.42
1:J:551:ASN:HB3	1:L:521:ALA:CA	2.48	0.42
1:I:62:ARG:CD	1:I:64:THR:O	2.67	0.42
1:C:774:ASN:HD21	1:C:880:SER:N	1.95	0.42
1:G:235:SER:HB3	1:I:842:PRO:HB3	2.00	0.42
1:G:452:ARG:O	1:I:170:GLN:HA	2.18	0.42
1:A:94:ASP:CB	1:C:778:GLN:HG2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:392:SER:H	1:G:539:ASN:ND2	2.17	0.42
1:D:392:SER:H	1:D:539:ASN:ND2	2.17	0.42
1:J:222:VAL:HG22	1:J:223:LEU:N	2.34	0.42
3:N:126:ALA:O	3:N:130:ARG:HG2	2.19	0.42
1:K:545:ARG:NH2	1:K:593:GLN:OE1	2.52	0.42
1:K:133:GLU:OE2	1:K:167:VAL:HG22	2.19	0.42
1:C:133:GLU:OE2	1:C:167:VAL:HG22	2.19	0.42
1:K:330:ASP:O	1:K:333:ILE:HG13	2.19	0.42
1:K:446:SER:C	1:K:448:LYS:H	2.22	0.42
1:A:208:SER:HB2	1:C:301:TYR:CZ	2.54	0.42
1:A:270:GLU:O	1:A:271:ALA:HB3	2.19	0.42
1:F:574:LEU:HG	1:F:929:ARG:NE	2.24	0.42
1:F:635:ASN:CA	4:P:25:GLN:NE2	2.78	0.42
1:I:256:LYS:HB2	1:I:257:LEU:HA	2.00	0.42
1:F:178:ILE:HG21	1:F:281:PRO:CG	2.48	0.42
1:E:733:ASN:O	1:F:61:GLN:N	2.50	0.42
1:K:4:SER:O	1:K:5:MET:O	2.37	0.42
1:B:924:VAL:CG1	1:B:925:VAL:N	2.82	0.42
5:T:110:LEU:O	5:T:114:LEU:HD13	2.19	0.42
1:J:178:ILE:HG22	1:J:281:PRO:HG3	2.00	0.42
1:G:187:VAL:CB	1:G:192:PRO:HA	2.48	0.42
4:O:80:TYR:HD1	4:O:80:TYR:HA	1.70	0.42
1:D:748:VAL:O	1:D:749:ASP:C	2.57	0.42
1:G:268:THR:O	1:G:269:THR:HB	2.19	0.42
1:H:218:ALA:CB	1:I:453:VAL:HG13	2.48	0.42
1:A:842:PRO:CG	1:B:246:GLN:HE22	2.24	0.42
1:A:428:VAL:HG13	1:A:438:TRP:HB3	2.00	0.42
1:C:899:ALA:CB	1:E:667:PRO:CB	2.89	0.42
1:B:748:VAL:HA	1:B:751:GLU:CG	2.48	0.42
1:B:752:GLY:N	1:C:103:ARG:NH1	2.67	0.42
1:D:861:LYS:HZ1	5:R:52:VAL:CG2	2.29	0.42
1:L:202:GLU:HA	1:L:203:PRO:HD3	1.92	0.42
1:A:103:ARG:NH2	1:C:751:GLU:HB2	2.33	0.42
1:A:311:ARG:HH12	1:B:211:TYR:HE1	1.65	0.42
1:A:830:TYR:CE2	1:B:204:GLN:OE1	2.72	0.42
1:E:639:ASP:OD2	1:E:928:HIS:HD2	2.01	0.42
1:I:545:ARG:NH2	1:I:593:GLN:OE1	2.52	0.42
1:D:384:SER:CB	1:F:799:PRO:HG3	2.49	0.42
1:L:596:LEU:HD12	1:L:596:LEU:HA	1.87	0.42
1:L:446:SER:C	1:L:448:LYS:H	2.22	0.42
1:A:24:SER:HB2	4:O:201:PHE:CA	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:5:MET:SD	1:F:894:ALA:HB2	2.55	0.42
1:F:647:SER:HB3	1:F:921:VAL:O	2.19	0.42
1:F:608:LYS:CD	5:T:99:LYS:N	2.82	0.42
1:H:7:PRO:HG2	4:P:51:ARG:N	2.34	0.42
1:H:5:MET:CG	1:H:8:GLN:HB2	2.48	0.42
1:K:939:TYR:N	4:O:32:ASN:HD21	2.18	0.42
3:N:27:TRP:HA	3:N:30:VAL:HG12	2.01	0.42
5:Q:121:LEU:HD13	5:T:121:LEU:HD11	2.00	0.42
1:J:105:VAL:HG11	5:Q:56:PRO:HG2	2.02	0.42
1:I:850:ILE:CA	1:I:854:ALA:HB2	2.48	0.42
1:H:691:GLY:HA3	5:S:21:PRO:HB2	2.00	0.42
1:F:62:ARG:CD	1:F:64:THR:O	2.68	0.42
3:N:147:LEU:HD11	3:N:169:ARG:CZ	2.49	0.42
1:I:37:TYR:CD2	1:I:37:TYR:N	2.88	0.42
1:C:545:ARG:NH2	1:C:593:GLN:OE1	2.52	0.42
1:D:545:ARG:NH2	1:D:593:GLN:OE1	2.52	0.42
1:B:545:ARG:NH2	1:B:593:GLN:OE1	2.52	0.42
1:G:545:ARG:NH2	1:G:593:GLN:OE1	2.52	0.42
1:D:330:ASP:O	1:D:333:ILE:HG13	2.18	0.42
1:B:197:LYS:HG2	1:B:286:TYR:HE2	1.84	0.42
1:D:133:GLU:OE2	1:D:167:VAL:HG22	2.19	0.42
1:J:464:ASN:HD21	1:K:467:LEU:CD2	2.32	0.42
1:K:197:LYS:HG2	1:K:286:TYR:HE2	1.84	0.42
3:N:170:LEU:HD23	3:N:243:THR:OG1	2.20	0.42
1:H:446:SER:C	1:H:448:LYS:H	2.22	0.42
1:A:9:TRP:O	1:A:13:HIS:N	2.53	0.42
1:A:6:MET:C	1:A:8:GLN:H	2.23	0.42
1:G:897:ALA:O	1:G:898:HIS:ND1	2.47	0.42
1:L:178:ILE:HB	1:L:281:PRO:HG2	2.00	0.42
1:H:240:THR:HB	1:H:249:LEU:CD2	2.48	0.42
1:G:178:ILE:CG2	1:G:281:PRO:HG3	2.49	0.42
1:I:432:THR:HG22	1:I:433:GLY:N	2.34	0.42
1:F:58:ASP:OD1	1:K:59:ARG:NH2	2.52	0.42
1:J:735:ARG:HD3	1:K:61:GLN:O	2.19	0.42
1:F:59:ARG:NH1	4:P:224:ASP:O	2.52	0.42
1:J:82:ARG:C	1:J:83:PHE:CD1	2.93	0.42
1:C:9:TRP:O	1:C:13:HIS:N	2.53	0.42
1:J:59:ARG:NH1	4:P:110:GLY:CA	2.71	0.42
1:I:924:VAL:HG12	1:I:925:VAL:H	1.85	0.42
1:G:463:LEU:CD2	1:I:463:LEU:HD21	2.30	0.42
1:A:463:LEU:CD2	1:C:463:LEU:HD21	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:266:PHE:CE1	1:I:285:LEU:HD12	2.54	0.42
1:J:133:GLU:OE2	1:J:264:GLN:OE1	2.38	0.42
1:D:165:THR:HB	1:E:445:PHE:N	2.34	0.42
1:D:924:VAL:CG1	1:D:925:VAL:N	2.82	0.42
1:F:924:VAL:CG1	1:F:925:VAL:N	2.82	0.42
1:B:193:LYS:HA	1:B:193:LYS:HD2	1.75	0.42
1:J:178:ILE:HG21	1:J:281:PRO:CG	2.49	0.42
1:I:176:ILE:HD12	1:I:186:GLY:HA2	2.00	0.42
1:A:37:TYR:N	1:A:37:TYR:CD2	2.88	0.42
1:K:279:LEU:HB3	1:L:438:TRP:HB2	2.01	0.42
1:H:545:ARG:NH2	1:H:593:GLN:OE1	2.52	0.42
1:J:782:ILE:CD1	1:K:388:GLN:OE1	2.67	0.42
2:M:508:PRO:HA	2:M:509:PRO:HD3	1.92	0.42
1:G:836:ARG:NH1	1:I:456:ASN:O	2.53	0.42
1:C:446:SER:C	1:C:448:LYS:H	2.22	0.42
1:E:133:GLU:OE2	1:E:167:VAL:HG22	2.19	0.42
1:A:222:VAL:HG22	1:A:223:LEU:N	2.34	0.42
1:J:383:PHE:HB3	1:J:388:GLN:HB3	2.00	0.42
1:G:600:LEU:HB3	1:G:605:ALA:HB3	2.00	0.42
1:I:949:ALA:N	1:I:950:THR:CG2	2.82	0.42
1:K:891:LEU:HD11	3:N:294:GLU:OE1	2.19	0.42
1:A:178:ILE:CD1	1:A:284:VAL:HG23	2.40	0.42
1:F:240:THR:HB	1:F:249:LEU:CD2	2.48	0.42
1:K:69:PRO:CG	1:K:72:ARG:HD3	2.41	0.42
1:J:673:ALA:CB	1:K:9:TRP:CZ2	2.71	0.42
1:F:629:LEU:O	1:F:632:MET:HG3	2.19	0.42
1:E:633:LEU:HA	1:E:638:ASN:HD22	1.85	0.42
1:G:27:LEU:HD23	1:I:638:ASN:OD1	2.20	0.42
1:K:24:SER:O	1:K:28:VAL:HG23	2.18	0.42
1:L:24:SER:O	1:L:28:VAL:HG23	2.19	0.42
1:I:924:VAL:CG1	1:I:925:VAL:N	2.82	0.42
1:C:578:TYR:CE2	1:C:935:ILE:HD11	2.55	0.42
2:M:47:ARG:HB3	2:M:48:PRO:HD2	2.02	0.42
1:I:219:ALA:HA	1:I:284:VAL:O	2.19	0.42
1:J:178:ILE:HB	1:J:281:PRO:HG2	2.01	0.42
1:L:805:VAL:HG11	1:L:847:TYR:CD2	2.55	0.42
1:B:805:VAL:HG11	1:B:847:TYR:CD2	2.55	0.42
1:D:425:LEU:CB	1:F:267:SER:O	2.67	0.42
1:G:49:VAL:HA	1:I:884:LEU:HB3	2.01	0.42
1:A:647:SER:HB3	1:A:921:VAL:O	2.20	0.42
1:D:121:ASN:C	1:F:824:ASN:OD1	2.57	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:111:THR:HG21	1:H:603:ASP:CG	2.39	0.42
1:A:392:SER:H	1:A:539:ASN:ND2	2.17	0.42
1:G:91:ARG:HG3	1:G:91:ARG:HH11	1.85	0.42
1:E:799:PRO:HG3	1:F:384:SER:CB	2.50	0.42
1:K:222:VAL:HG22	1:K:223:LEU:N	2.34	0.42
1:B:647:SER:HB3	1:B:921:VAL:O	2.19	0.42
1:L:133:GLU:OE2	1:L:167:VAL:HG22	2.19	0.42
1:E:600:LEU:HB3	1:E:605:ALA:HB3	2.00	0.42
1:L:600:LEU:HB3	1:L:605:ALA:HB3	2.00	0.42
1:H:938:VAL:O	1:I:12:MET:HE1	2.19	0.42
1:I:647:SER:HB3	1:I:921:VAL:O	2.20	0.42
1:E:938:VAL:O	1:F:12:MET:HE1	2.19	0.42
1:K:647:SER:HB3	1:K:921:VAL:O	2.19	0.42
1:K:406:GLU:HB3	1:L:474:SER:CB	2.49	0.42
1:F:383:PHE:HB3	1:F:388:GLN:HB3	2.00	0.42
1:L:578:TYR:CE2	1:L:935:ILE:HD11	2.55	0.42
1:C:924:VAL:CG1	1:C:925:VAL:N	2.82	0.42
1:A:91:ARG:HG3	1:A:91:ARG:HH11	1.85	0.42
1:G:940:LEU:HD13	4:P:31:ILE:CB	2.47	0.42
1:L:751:GLU:OE1	5:Q:52:VAL:HG11	2.15	0.42
1:H:219:ALA:HA	1:H:284:VAL:O	2.19	0.42
1:F:178:ILE:HG23	1:F:284:VAL:HG21	2.02	0.42
4:P:19:LEU:H	4:P:19:LEU:HG	1.72	0.42
1:D:19:ALA:CB	1:D:23:LEU:HD11	2.40	0.42
1:C:6:MET:HE3	1:C:6:MET:HB3	1.83	0.42
1:J:133:GLU:OE2	1:J:167:VAL:HG22	2.19	0.42
1:B:188:GLU:HG3	1:B:193:LYS:HD3	1.97	0.42
1:G:187:VAL:HG12	1:G:192:PRO:CB	2.48	0.42
1:E:777:TYR:CZ	1:F:63:LEU:HD21	2.54	0.42
1:J:752:GLY:O	1:K:558:HIS:HE1	2.03	0.42
1:F:691:GLY:O	1:G:77:TYR:CE2	2.73	0.42
1:G:459:MET:HE2	1:I:459:MET:HG2	2.01	0.42
1:I:413:CYS:HG	1:I:459:MET:HB2	1.84	0.42
1:F:637:THR:CG2	4:P:200:PRO:HG3	2.49	0.42
1:H:748:VAL:HA	1:H:751:GLU:CG	2.48	0.42
1:J:879:MET:SD	1:K:619:PHE:HE1	2.42	0.42
1:J:37:TYR:CD2	1:J:37:TYR:N	2.88	0.42
1:G:824:ASN:OD1	1:H:121:ASN:CA	2.67	0.42
1:E:311:ARG:HH12	1:F:211:TYR:HE1	1.66	0.42
1:I:392:SER:H	1:I:539:ASN:ND2	2.17	0.42
1:G:838:GLY:CA	1:H:203:PRO:O	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:91:ARG:HH11	1:I:91:ARG:HG3	1.85	0.42
1:J:91:ARG:HG3	1:J:91:ARG:HH11	1.85	0.42
1:H:270:GLU:O	1:H:271:ALA:HB3	2.19	0.42
1:D:509:ALA:HA	1:D:510:PRO:HD3	1.93	0.42
1:L:330:ASP:O	1:L:333:ILE:HG13	2.19	0.42
1:F:270:GLU:O	1:F:271:ALA:HB3	2.19	0.42
1:C:222:VAL:HG22	1:C:223:LEU:N	2.34	0.42
1:K:578:TYR:CE2	1:K:935:ILE:HD11	2.55	0.42
1:H:522:ARG:HB2	1:I:547:MET:SD	2.60	0.42
1:B:578:TYR:CE2	1:B:935:ILE:HD11	2.55	0.42
4:O:6:PRO:CG	4:O:198:PHE:H	2.28	0.42
1:F:668:SER:O	1:F:669:ARG:HB3	2.20	0.42
4:P:41:ILE:HG23	4:P:42:SER:N	2.33	0.42
1:G:945:SER:HB3	4:P:30:ARG:N	2.32	0.42
1:K:891:LEU:CB	1:K:895:ASN:OD1	2.58	0.42
1:A:178:ILE:HG23	1:A:284:VAL:HG21	2.02	0.42
1:C:240:THR:HB	1:C:249:LEU:CD2	2.48	0.42
1:F:91:ARG:HH11	1:F:91:ARG:HG3	1.85	0.42
1:J:669:ARG:NH2	1:J:950:THR:CG2	2.75	0.42
1:K:66:ARG:NH1	1:K:68:ILE:CD1	2.76	0.42
1:E:62:ARG:CD	1:E:64:THR:O	2.68	0.42
1:B:941:ARG:H	1:B:947:GLY:HA3	1.85	0.42
1:C:9:TRP:HA	1:C:14:ILE:HB	2.01	0.42
5:R:22:TRP:HB2	5:R:25:VAL:CG2	2.50	0.42
1:C:352:SER:C	1:C:354:LEU:N	2.71	0.42
1:L:566:PHE:HE1	1:L:925:VAL:HG23	1.84	0.42
1:B:165:THR:HG21	1:C:445:PHE:CE1	2.54	0.42
1:D:165:THR:HG21	1:E:445:PHE:CE1	2.54	0.42
5:S:10:ILE:C	5:S:12:SER:N	2.72	0.42
1:H:661:ASN:CB	5:S:12:SER:HB2	2.16	0.42
1:J:608:LYS:HZ1	5:Q:56:PRO:HB2	1.84	0.42
1:I:805:VAL:HG11	1:I:847:TYR:CD2	2.55	0.42
1:F:187:VAL:CB	1:F:192:PRO:HA	2.48	0.42
1:G:176:ILE:HD12	1:G:186:GLY:HA2	2.00	0.42
1:C:62:ARG:CD	1:C:64:THR:O	2.67	0.42
1:G:521:ALA:CA	1:H:551:ASN:HB3	2.49	0.42
1:J:752:GLY:H	1:K:103:ARG:NH1	2.18	0.42
1:B:693:GLY:O	1:B:694:TYR:CB	2.67	0.42
1:C:667:PRO:HB3	1:K:70:VAL:HG22	2.02	0.42
1:K:733:ASN:HB3	1:L:60:SER:HA	2.02	0.42
1:D:61:GLN:N	1:F:733:ASN:O	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:124:ALA:CB	1:F:827:PHE:CE2	3.01	0.42
1:H:202:GLU:HA	1:H:203:PRO:HD3	1.92	0.42
1:E:545:ARG:NH2	1:E:593:GLN:OE1	2.52	0.42
5:Q:110:LEU:HD13	5:R:124:LEU:HD22	2.02	0.42
1:G:782:ILE:CD1	1:H:388:GLN:OE1	2.67	0.42
1:A:578:TYR:CE2	1:A:935:ILE:HD11	2.55	0.42
1:H:647:SER:HB3	1:H:921:VAL:O	2.19	0.42
3:N:199:VAL:HG23	3:N:199:VAL:O	2.19	0.42
1:D:647:SER:HB3	1:D:921:VAL:O	2.20	0.42
1:F:446:SER:C	1:F:448:LYS:H	2.22	0.42
1:C:600:LEU:HB3	1:C:605:ALA:HB3	2.00	0.42
1:H:2:THR:HA	1:H:3:PRO:HD2	1.88	0.42
1:K:891:LEU:O	1:K:892:LEU:C	2.58	0.42
1:G:178:ILE:HG21	1:G:281:PRO:CG	2.49	0.42
1:H:431:LYS:HE2	1:H:431:LYS:HB3	1.76	0.42
1:A:432:THR:HG22	1:A:433:GLY:N	2.34	0.42
1:B:219:ALA:HA	1:B:284:VAL:O	2.20	0.42
1:L:431:LYS:HE2	1:L:431:LYS:HB3	1.79	0.42
1:J:942:THR:CG2	4:P:16:GLN:HE21	2.30	0.42
1:J:346:VAL:HB	1:J:581:GLU:HB3	2.00	0.42
1:F:24:SER:O	1:F:28:VAL:HG23	2.18	0.42
1:B:946:ALA:CA	2:M:108:THR:C	2.86	0.42
1:C:740:ASN:N	1:E:341:THR:CG2	2.81	0.42
1:A:239:PRO:HA	1:A:246:GLN:HG2	2.02	0.42
3:N:93:LEU:CD1	3:N:93:LEU:O	2.51	0.42
1:A:444:GLU:HG2	1:A:445:PHE:O	2.20	0.42
1:K:187:VAL:CB	1:K:192:PRO:HA	2.48	0.42
1:G:651:MET:HG3	1:G:919:PHE:CE1	2.55	0.42
1:D:246:GLN:HE22	1:F:842:PRO:CG	2.27	0.42
1:A:430:PRO:HA	1:A:438:TRP:CD1	2.54	0.42
1:G:94:ASP:CG	1:I:778:GLN:HG2	2.40	0.42
1:E:737:LEU:HA	1:F:62:ARG:HE	1.84	0.42
1:A:884:LEU:HB3	1:B:49:VAL:HA	2.00	0.42
1:G:115:TYR:CE1	1:I:519:LEU:HD13	2.55	0.42
1:A:879:MET:SD	1:B:619:PHE:HE1	2.43	0.42
1:D:37:TYR:N	1:D:37:TYR:CD2	2.88	0.42
1:G:647:SER:HB3	1:G:921:VAL:O	2.19	0.42
1:E:222:VAL:HG22	1:E:223:LEU:N	2.34	0.42
1:H:200:GLN:HA	1:H:201:PRO:C	2.40	0.42
1:F:695:ASP:HA	1:F:696:PRO:HD2	1.92	0.42
1:I:197:LYS:HG2	1:I:286:TYR:HE2	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:578:TYR:CE2	1:E:935:ILE:HD11	2.55	0.42
1:B:133:GLU:OE2	1:B:167:VAL:HG22	2.19	0.42
1:I:600:LEU:HB3	1:I:605:ALA:HB3	2.01	0.42
1:B:446:SER:C	1:B:448:LYS:H	2.22	0.42
1:K:892:LEU:HA	4:O:189:ILE:CG1	2.38	0.42
1:E:178:ILE:HG23	1:E:284:VAL:HG21	2.01	0.42
1:J:430:PRO:HA	1:J:438:TRP:HD1	1.84	0.42
1:B:432:THR:CG2	1:B:433:GLY:N	2.80	0.42
1:K:240:THR:HB	1:K:249:LEU:CG	2.50	0.42
1:D:638:ASN:OD1	1:E:27:LEU:HD23	2.20	0.42
1:J:315:GLY:HA2	1:K:210:TRP:CD1	2.55	0.42
1:C:894:ALA:O	1:K:353:GLN:NE2	2.50	0.42
1:H:638:ASN:ND2	1:I:24:SER:OG	2.53	0.42
1:H:133:GLU:OE2	1:H:167:VAL:HG22	2.19	0.42
1:E:924:VAL:CG1	1:E:925:VAL:N	2.82	0.42
1:C:623:HIS:CB	4:O:222:SER:HB2	2.49	0.42
1:G:62:ARG:CD	1:G:64:THR:O	2.67	0.42
1:G:95:MET:CG	1:G:573:LEU:HD12	2.48	0.42
1:J:751:GLU:CB	1:K:103:ARG:NH2	2.80	0.42
1:L:942:THR:HA	1:L:943:PRO:C	2.40	0.42
1:G:419:VAL:HG21	1:G:452:ARG:CG	2.50	0.42
1:D:346:VAL:HB	1:D:581:GLU:HB3	2.00	0.42
1:A:672:ALA:O	1:A:673:ALA:HB3	2.20	0.42
1:E:752:GLY:O	1:F:558:HIS:HE1	2.03	0.42
1:D:672:ALA:O	1:D:673:ALA:HB3	2.20	0.42
1:D:778:GLN:HG2	1:E:94:ASP:CB	2.50	0.42
1:G:749:ASP:CB	1:J:342:GLY:HA3	2.49	0.42
1:L:636:ASP:O	1:L:926:ARG:NH1	2.47	0.42
1:C:942:THR:CA	1:C:943:PRO:O	2.68	0.42
1:G:578:TYR:CE2	1:G:935:ILE:HD11	2.55	0.42
1:I:200:GLN:HA	1:I:201:PRO:C	2.40	0.42
1:H:222:VAL:HG22	1:H:223:LEU:N	2.34	0.42
1:J:578:TYR:CE2	1:J:935:ILE:HD11	2.55	0.42
1:D:578:TYR:CE2	1:D:935:ILE:HD11	2.55	0.42
1:J:200:GLN:HA	1:J:201:PRO:C	2.41	0.42
1:F:197:LYS:HG2	1:F:286:TYR:HE2	1.85	0.42
1:C:893:TYR:OH	1:E:950:THR:C	2.58	0.42
1:C:948:ASN:C	1:K:344:MET:CE	2.88	0.42
1:C:340:SER:C	1:C:342:GLY:N	2.72	0.42
1:J:672:ALA:O	1:J:673:ALA:HB3	2.20	0.42
1:G:755:VAL:HG11	1:G:762:LYS:HG2	1.97	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:672:ALA:O	1:B:673:ALA:HB3	2.20	0.42
4:P:160:PRO:O	4:P:161:SER:CB	2.66	0.42
1:I:444:GLU:HG2	1:I:445:PHE:O	2.20	0.42
1:A:264:GLN:NE2	1:B:445:PHE:CZ	2.79	0.42
1:E:858:ILE:HG12	5:Q:112:ARG:NH2	2.34	0.42
1:J:444:GLU:HG2	1:J:445:PHE:O	2.20	0.42
1:G:805:VAL:HG11	1:G:847:TYR:CD2	2.55	0.42
1:H:587:ASP:OD1	1:H:601:ARG:CD	2.68	0.42
1:G:62:ARG:NH2	1:I:737:LEU:CA	2.57	0.42
1:H:572:LEU:HD22	1:I:40:LEU:CD2	2.49	0.42
1:G:202:GLU:HA	1:G:203:PRO:HD3	1.92	0.42
1:B:37:TYR:CD2	1:B:37:TYR:N	2.88	0.42
1:G:823:ASN:ND2	1:H:119:ALA:O	2.45	0.42
1:J:414:PHE:HB3	1:J:415:PRO:HD2	2.02	0.42
1:A:824:ASN:OD1	1:B:121:ASN:C	2.58	0.42
1:D:121:ASN:CA	1:F:824:ASN:OD1	2.67	0.42
1:L:414:PHE:HB3	1:L:415:PRO:HD2	2.02	0.42
1:H:392:SER:H	1:H:539:ASN:ND2	2.17	0.42
1:A:861:LYS:HE2	1:A:861:LYS:HB2	1.62	0.42
1:G:301:TYR:OH	1:H:208:SER:HB2	2.20	0.42
1:F:133:GLU:OE2	1:F:167:VAL:HG22	2.19	0.42
1:D:833:PRO:CB	1:F:409:LEU:HD23	2.50	0.42
1:C:509:ALA:HA	1:C:510:PRO:HD3	1.93	0.42
1:C:636:ASP:C	1:C:636:ASP:OD1	2.58	0.41
1:A:574:LEU:HB3	1:A:575:PRO:HD2	2.02	0.41
1:G:672:ALA:O	1:G:673:ALA:HB3	2.20	0.41
1:J:556:PRO:CG	5:Q:52:VAL:CG2	2.98	0.41
1:J:432:THR:CG2	1:J:433:GLY:N	2.80	0.41
1:B:240:THR:HB	1:B:249:LEU:CG	2.50	0.41
1:B:429:LYS:C	1:B:438:TRP:CD1	2.79	0.41
1:H:281:PRO:CG	1:I:438:TRP:HH2	1.88	0.41
1:G:240:THR:HB	1:G:249:LEU:CG	2.50	0.41
1:I:251:LYS:O	1:I:256:LYS:CB	2.68	0.41
1:J:240:THR:HB	1:J:249:LEU:CG	2.50	0.41
1:D:431:LYS:HB3	1:D:431:LYS:HE2	1.79	0.41
1:J:651:MET:HE1	1:J:951:THR:N	2.35	0.41
1:B:566:PHE:HE1	1:B:925:VAL:HG23	1.84	0.41
1:D:894:ALA:HB2	1:E:5:MET:SD	2.56	0.41
1:A:566:PHE:HE1	1:A:925:VAL:HG23	1.84	0.41
1:I:133:GLU:OE2	1:I:167:VAL:HG22	2.19	0.41
1:G:285:LEU:HD11	1:H:451:ILE:CD1	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:165:THR:HB	1:B:445:PHE:N	2.35	0.41
1:E:858:ILE:CD1	5:Q:112:ARG:HE	2.33	0.41
1:D:444:GLU:HG2	1:D:445:PHE:O	2.20	0.41
1:F:191:THR:HA	1:F:192:PRO:HD3	1.75	0.41
1:D:188:GLU:HG3	1:D:193:LYS:HD3	1.97	0.41
1:D:187:VAL:CB	1:D:192:PRO:HA	2.48	0.41
5:Q:104:LEU:CD1	5:T:103:LEU:CG	2.89	0.41
1:H:805:VAL:HG11	1:H:847:TYR:CD2	2.55	0.41
1:G:560:GLN:CD	1:I:755:VAL:HG12	2.40	0.41
1:L:574:LEU:HB3	1:L:575:PRO:HD2	2.02	0.41
1:A:941:ARG:CD	1:A:944:PHE:O	2.65	0.41
1:L:647:SER:HB3	1:L:921:VAL:O	2.20	0.41
1:G:756:ALA:N	1:H:560:GLN:OE1	2.53	0.41
4:O:70:ASN:N	4:O:71:PRO:CD	2.83	0.41
1:H:36:THR:OG1	1:H:37:TYR:CD2	2.70	0.41
1:C:749:ASP:O	1:E:77:TYR:CD2	2.73	0.41
1:A:414:PHE:HB3	1:A:415:PRO:HD2	2.02	0.41
1:C:392:SER:H	1:C:539:ASN:ND2	2.17	0.41
1:E:392:SER:H	1:E:539:ASN:ND2	2.17	0.41
1:A:419:VAL:HG21	1:A:452:ARG:CG	2.50	0.41
4:P:63:THR:OG1	4:P:193:VAL:HG23	2.20	0.41
1:I:332:PHE:CZ	1:I:387:ASN:HB2	2.55	0.41
3:N:161:TYR:HD1	3:N:212:TRP:CE2	2.38	0.41
1:E:332:PHE:CZ	1:E:387:ASN:HB2	2.55	0.41
1:H:91:ARG:HG3	1:H:91:ARG:HH11	1.85	0.41
1:J:469:ARG:CZ	1:L:409:LEU:HD13	2.50	0.41
1:K:409:LEU:HD23	1:L:833:PRO:CB	2.49	0.41
1:A:197:LYS:HG2	1:A:286:TYR:HE2	1.84	0.41
1:I:446:SER:C	1:I:448:LYS:H	2.22	0.41
1:F:596:LEU:HD12	1:F:596:LEU:HA	1.88	0.41
4:P:3:LYS:O	4:P:4:GLU:HB3	2.20	0.41
1:G:133:GLU:OE2	1:G:167:VAL:HG22	2.19	0.41
1:G:924:VAL:CG1	1:G:925:VAL:N	2.82	0.41
1:H:9:TRP:O	1:H:10:SER:C	2.58	0.41
1:K:898:HIS:N	1:K:898:HIS:ND1	2.66	0.41
1:L:3:PRO:CB	3:N:298:ASN:ND2	2.69	0.41
1:H:240:THR:HB	1:H:249:LEU:CG	2.50	0.41
1:J:889:GLN:HG2	1:J:889:GLN:O	2.17	0.41
1:J:942:THR:HG22	1:J:945:SER:HG	1.85	0.41
1:G:587:ASP:OD1	1:G:601:ARG:HD3	2.21	0.41
1:B:922:PHE:O	1:B:941:ARG:HA	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:24:SER:HG	1:I:27:LEU:HB2	1.84	0.41
1:K:444:GLU:HG2	1:K:445:PHE:O	2.20	0.41
1:H:444:GLU:HG2	1:H:445:PHE:O	2.20	0.41
2:M:48:PRO:CB	3:N:106:ASN:CB	2.98	0.41
1:B:266:PHE:CE1	1:B:285:LEU:HD12	2.55	0.41
1:F:566:PHE:HE1	1:F:925:VAL:HG23	1.84	0.41
5:S:29:VAL:HG12	5:S:30:MET:N	2.34	0.41
1:D:805:VAL:HG11	1:D:847:TYR:CD2	2.55	0.41
1:F:419:VAL:HG21	1:F:452:ARG:CG	2.50	0.41
1:F:37:TYR:N	1:F:37:TYR:CD2	2.88	0.41
1:D:204:GLN:OE1	1:F:830:TYR:CE2	2.74	0.41
1:G:778:GLN:HG2	1:H:94:ASP:CB	2.50	0.41
1:H:419:VAL:HG21	1:H:452:ARG:CG	2.50	0.41
1:C:332:PHE:CZ	1:C:387:ASN:HB2	2.55	0.41
1:G:197:LYS:HG2	1:G:286:TYR:HE2	1.84	0.41
1:C:647:SER:HB3	1:C:921:VAL:O	2.19	0.41
1:A:200:GLN:HA	1:A:201:PRO:C	2.40	0.41
1:C:587:ASP:OD1	1:C:601:ARG:HD3	2.21	0.41
1:B:464:ASN:HD21	1:C:467:LEU:CD2	2.33	0.41
5:S:13:SER:OG	5:S:14:TYR:CE1	2.72	0.41
1:G:464:ASN:HD22	1:G:464:ASN:HA	1.70	0.41
1:A:27:LEU:HD21	1:C:633:LEU:HD21	2.02	0.41
1:F:358:VAL:HG13	1:G:341:THR:CB	2.51	0.41
1:F:608:LYS:HE2	5:T:99:LYS:CA	2.50	0.41
1:F:84:THR:HG23	1:F:350:GLN:NE2	2.36	0.41
1:L:178:ILE:HG21	1:L:281:PRO:CG	2.50	0.41
1:A:251:LYS:CB	1:A:252:GLN:CA	2.56	0.41
1:G:432:THR:HG22	1:G:433:GLY:N	2.36	0.41
1:F:251:LYS:O	1:F:256:LYS:CB	2.69	0.41
1:D:279:LEU:HA	1:D:279:LEU:HD22	1.82	0.41
1:K:7:PRO:C	1:K:9:TRP:N	2.74	0.41
5:T:22:TRP:HB2	5:T:25:VAL:CG2	2.50	0.41
1:D:719:LYS:HD3	5:R:22:TRP:NE1	2.35	0.41
1:J:5:MET:HE2	1:L:894:ALA:HB1	1.95	0.41
1:E:444:GLU:HG2	1:E:445:PHE:O	2.20	0.41
1:A:805:VAL:HG11	1:A:847:TYR:CD2	2.55	0.41
1:F:187:VAL:HG12	1:F:192:PRO:CB	2.48	0.41
1:E:805:VAL:HG11	1:E:847:TYR:CD2	2.55	0.41
1:H:672:ALA:O	1:H:673:ALA:HB3	2.20	0.41
1:L:672:ALA:O	1:L:673:ALA:HB3	2.20	0.41
1:D:751:GLU:O	1:D:752:GLY:C	2.57	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:752:GLY:O	1:L:558:HIS:HE1	2.02	0.41
1:I:419:VAL:HG21	1:I:452:ARG:CG	2.50	0.41
1:K:202:GLU:HA	1:K:203:PRO:HD3	1.92	0.41
1:A:570:ASN:O	1:B:43:LYS:HD3	2.20	0.41
1:H:822:HIS:HB3	1:I:204:GLN:HG2	2.01	0.41
1:E:204:GLN:H	1:E:204:GLN:HG3	1.37	0.41
1:K:788:ASP:CG	1:L:381:ARG:HH22	2.19	0.41
1:F:414:PHE:HB3	1:F:415:PRO:HD2	2.02	0.41
5:T:29:VAL:HG12	5:T:30:MET:N	2.34	0.41
1:G:403:HIS:HB2	1:H:325:TYR:OH	2.20	0.41
1:D:213:THR:O	1:D:214:GLU:HB2	2.21	0.41
1:L:213:THR:O	1:L:214:GLU:HB2	2.21	0.41
1:D:52:THR:CG2	1:F:889:GLN:CD	2.89	0.41
1:H:332:PHE:CZ	1:H:387:ASN:HB2	2.55	0.41
1:J:782:ILE:HD12	1:K:388:GLN:OE1	2.21	0.41
1:J:596:LEU:HA	1:J:596:LEU:HD12	1.87	0.41
1:J:647:SER:HB3	1:J:921:VAL:O	2.20	0.41
1:C:668:SER:CB	1:E:668:SER:HB3	2.50	0.41
1:D:200:GLN:HA	1:D:201:PRO:C	2.41	0.41
1:F:574:LEU:HB3	1:F:575:PRO:HD2	2.02	0.41
1:G:566:PHE:HE1	1:G:925:VAL:HG23	1.84	0.41
3:N:294:GLU:HB3	4:O:58:GLN:NE2	2.29	0.41
1:L:251:LYS:O	1:L:256:LYS:CB	2.68	0.41
1:D:240:THR:HB	1:D:249:LEU:CG	2.51	0.41
1:E:726:SER:OG	1:E:726:SER:O	2.38	0.41
1:G:690:LEU:C	1:G:692:SER:N	2.71	0.41
5:T:20:PRO:HG2	5:T:25:VAL:HG11	2.02	0.41
4:P:159:ARG:CB	4:P:160:PRO:CD	2.82	0.41
1:C:351:ALA:HB2	1:K:667:PRO:HD3	1.88	0.41
1:H:566:PHE:HE1	1:H:925:VAL:HG23	1.84	0.41
1:C:444:GLU:HG2	1:C:445:PHE:O	2.20	0.41
1:C:805:VAL:HG11	1:C:847:TYR:CD2	2.55	0.41
1:D:574:LEU:HB3	1:D:575:PRO:HD2	2.02	0.41
1:B:574:LEU:HB3	1:B:575:PRO:HD2	2.03	0.41
1:B:80:LYS:NZ	1:B:583:ASN:OD1	2.49	0.41
1:G:839:GLN:HA	1:H:170:GLN:OE1	2.21	0.41
1:H:171:ALA:O	1:I:454:GLY:N	2.41	0.41
1:L:61:GLN:NE2	1:L:623:HIS:CE1	2.80	0.41
1:I:414:PHE:HB3	1:I:415:PRO:HD2	2.02	0.41
1:G:414:PHE:HB3	1:G:415:PRO:HD2	2.02	0.41
1:J:522:ARG:CB	1:K:547:MET:HB3	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:332:PHE:CZ	1:A:387:ASN:HB2	2.55	0.41
1:L:332:PHE:CZ	1:L:387:ASN:HB2	2.55	0.41
1:E:587:ASP:OD1	1:E:601:ARG:HD3	2.21	0.41
1:L:695:ASP:HA	1:L:696:PRO:HD2	1.91	0.41
2:M:258:LEU:HD13	2:M:430:VAL:HA	2.03	0.41
4:O:209:PRO:O	4:O:211:GLN:N	2.53	0.41
1:F:578:TYR:CE2	1:F:935:ILE:HD11	2.55	0.41
1:L:3:PRO:HB3	4:O:54:ILE:HG23	2.00	0.41
5:Q:22:TRP:HB2	5:Q:25:VAL:CG2	2.50	0.41
1:A:240:THR:HB	1:A:249:LEU:CG	2.50	0.41
1:J:180:LYS:HD3	1:K:430:PRO:HG3	2.01	0.41
1:D:432:THR:HG22	1:D:433:GLY:N	2.36	0.41
1:J:62:ARG:CD	1:J:64:THR:O	2.67	0.41
1:A:68:ILE:CG1	1:E:73:GLU:CA	2.91	0.41
1:J:566:PHE:HE1	1:J:925:VAL:HG23	1.84	0.41
1:G:24:SER:OG	1:G:27:LEU:HB3	2.21	0.41
1:J:463:LEU:CD2	1:K:463:LEU:HD21	2.28	0.41
1:H:187:VAL:CB	1:H:192:PRO:HA	2.48	0.41
1:J:178:ILE:CD1	1:J:284:VAL:HG23	2.40	0.41
1:K:805:VAL:HG11	1:K:847:TYR:CD2	2.55	0.41
1:H:942:THR:HA	1:H:943:PRO:C	2.41	0.41
1:E:762:LYS:HE2	1:F:615:TYR:CD2	2.54	0.41
3:N:143:LEU:HD21	3:N:169:ARG:CD	2.45	0.41
1:J:574:LEU:HB3	1:J:575:PRO:HD2	2.02	0.41
1:A:751:GLU:CB	1:B:103:ARG:NH2	2.82	0.41
1:K:459:MET:HG2	1:L:459:MET:HE2	2.02	0.41
1:H:519:LEU:HD13	1:I:115:TYR:CZ	2.55	0.41
1:G:37:TYR:N	1:G:37:TYR:CD2	2.88	0.41
1:B:414:PHE:HB3	1:B:415:PRO:HD2	2.02	0.41
1:J:846:PRO:HD2	1:K:120:TYR:CE2	2.55	0.41
2:M:378:VAL:HG23	2:M:379:ILE:N	2.34	0.41
1:F:213:THR:O	1:F:214:GLU:HB2	2.21	0.41
1:K:332:PHE:CZ	1:K:387:ASN:HB2	2.55	0.41
1:K:389:ALA:HB3	1:K:545:ARG:HD3	2.03	0.41
1:J:332:PHE:CZ	1:J:387:ASN:HB2	2.55	0.41
1:B:332:PHE:CZ	1:B:387:ASN:HB2	2.55	0.41
1:J:587:ASP:OD1	1:J:601:ARG:HD3	2.21	0.41
1:D:446:SER:C	1:D:448:LYS:H	2.22	0.41
1:H:578:TYR:CE2	1:H:935:ILE:HD11	2.55	0.41
1:E:647:SER:HB3	1:E:921:VAL:O	2.19	0.41
1:F:50:ALA:HB1	1:F:51:PRO:HD2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:940:LEU:HD13	4:P:31:ILE:HA	2.02	0.41
1:H:7:PRO:HG2	4:P:51:ARG:HB2	2.03	0.41
1:G:942:THR:HA	4:P:28:SER:O	2.21	0.41
1:H:248:ILE:CG2	1:H:249:LEU:H	2.05	0.41
1:G:278:ASN:CB	1:G:280:THR:HG23	2.51	0.41
1:J:942:THR:HA	1:J:943:PRO:C	2.40	0.41
1:H:62:ARG:NH1	1:J:352:SER:O	2.53	0.41
1:C:740:ASN:N	1:E:341:THR:CB	2.83	0.41
1:D:463:LEU:CD2	1:F:463:LEU:HD21	2.32	0.41
1:K:178:ILE:CG2	1:K:281:PRO:HG3	2.50	0.41
1:E:924:VAL:HG12	1:E:925:VAL:H	1.84	0.41
1:D:924:VAL:CG2	1:E:14:ILE:CD1	2.73	0.41
1:A:853:THR:CB	1:B:295:PRO:HB3	2.49	0.41
1:H:755:VAL:HG11	1:H:762:LYS:HG2	1.97	0.41
1:H:268:THR:O	1:H:269:THR:HB	2.21	0.41
1:H:774:ASN:HD21	1:H:880:SER:N	1.95	0.41
1:A:551:ASN:HB3	1:C:521:ALA:CA	2.50	0.41
1:G:43:LYS:O	1:I:640:GLN:CB	2.68	0.41
1:L:87:VAL:O	1:L:88:GLY:C	2.59	0.41
1:K:419:VAL:HG21	1:K:452:ARG:CG	2.50	0.41
1:D:56:THR:CB	1:F:876:SER:OG	2.68	0.41
1:J:204:GLN:HG3	1:J:204:GLN:H	1.37	0.41
1:J:663:PRO:HD2	5:Q:92:ARG:HH12	1.80	0.41
1:G:824:ASN:OD1	1:H:121:ASN:C	2.58	0.41
1:D:414:PHE:HB3	1:D:415:PRO:HD2	2.02	0.41
2:M:457:ILE:H	2:M:457:ILE:HG13	1.60	0.41
1:K:778:GLN:HG2	1:L:94:ASP:OD2	2.20	0.41
1:D:94:ASP:OD2	1:E:43:LYS:NZ	2.39	0.41
1:C:389:ALA:HB3	1:C:545:ARG:HD3	2.02	0.41
1:D:332:PHE:CZ	1:D:387:ASN:HB2	2.55	0.41
3:N:244:ASP:O	3:N:245:SER:HB2	2.20	0.41
1:I:389:ALA:HB3	1:I:545:ARG:HD3	2.02	0.41
1:F:332:PHE:CZ	1:F:387:ASN:HB2	2.56	0.41
1:D:409:LEU:HD23	1:E:833:PRO:HB3	2.02	0.41
1:J:409:LEU:HD13	1:K:469:ARG:CZ	2.50	0.41
1:L:200:GLN:HA	1:L:201:PRO:C	2.40	0.41
1:A:695:ASP:HA	1:A:696:PRO:HD2	1.92	0.41
1:J:406:GLU:HB3	1:K:474:SER:CB	2.50	0.41
1:K:587:ASP:OD1	1:K:601:ARG:HD3	2.21	0.41
1:C:636:ASP:OD2	1:K:949:ALA:HB1	2.17	0.41
1:F:608:LYS:HE2	5:T:99:LYS:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:240:THR:HB	1:E:249:LEU:CG	2.50	0.41
1:G:178:ILE:HG23	1:G:284:VAL:HG21	2.02	0.41
1:G:279:LEU:HB3	1:H:438:TRP:HB2	2.02	0.41
1:J:251:LYS:O	1:J:256:LYS:CB	2.68	0.41
1:H:68:ILE:HG23	1:H:69:PRO:HD2	2.03	0.41
1:C:736:LEU:HD11	1:C:742:PHE:CE2	2.55	0.41
1:I:719:LYS:NZ	5:T:22:TRP:CG	2.80	0.41
1:J:924:VAL:CG1	1:J:925:VAL:N	2.83	0.41
1:A:924:VAL:CG1	1:A:925:VAL:N	2.82	0.41
1:C:91:ARG:HG3	1:C:91:ARG:HH11	1.85	0.41
3:N:93:LEU:O	3:N:93:LEU:HD22	2.21	0.41
1:G:444:GLU:HG2	1:G:445:PHE:O	2.20	0.41
1:L:444:GLU:HG2	1:L:445:PHE:O	2.20	0.41
1:E:566:PHE:HE1	1:E:925:VAL:HG23	1.84	0.41
1:C:218:ALA:O	1:C:284:VAL:N	2.43	0.41
1:G:574:LEU:HB3	1:G:575:PRO:HD2	2.02	0.41
1:I:574:LEU:HB3	1:I:575:PRO:HD2	2.02	0.41
1:E:87:VAL:O	1:E:88:GLY:C	2.59	0.41
1:L:68:ILE:HG23	1:L:69:PRO:HD2	2.03	0.41
1:A:558:HIS:ND1	1:C:751:GLU:O	2.54	0.41
4:P:70:ASN:N	4:P:71:PRO:CD	2.83	0.41
1:J:824:ASN:OD1	1:K:121:ASN:CA	2.68	0.41
5:T:40:LEU:HD22	5:T:46:THR:HG21	2.03	0.41
1:I:213:THR:O	1:I:214:GLU:HB2	2.21	0.41
1:C:213:THR:O	1:C:214:GLU:HB2	2.21	0.41
4:O:63:THR:OG1	4:O:193:VAL:HG23	2.20	0.41
1:I:677:TRP:CD1	1:I:902:MET:HE1	2.55	0.41
1:L:587:ASP:OD1	1:L:601:ARG:HD3	2.21	0.41
1:B:200:GLN:HA	1:B:201:PRO:C	2.40	0.41
1:A:409:LEU:HD23	1:B:833:PRO:CB	2.51	0.41
1:C:672:ALA:O	1:C:673:ALA:HB3	2.20	0.41
1:K:949:ALA:HB2	4:O:30:ARG:CZ	2.50	0.41
1:F:921:VAL:HG12	1:F:943:PRO:HD2	2.03	0.41
1:L:903:THR:O	5:Q:22:TRP:HH2	2.03	0.41
1:F:240:THR:HB	1:F:249:LEU:CG	2.50	0.41
1:K:924:VAL:HG12	1:K:925:VAL:H	1.84	0.41
1:L:240:THR:HB	1:L:249:LEU:CG	2.50	0.41
1:K:91:ARG:HG3	1:K:91:ARG:HH11	1.85	0.41
1:E:68:ILE:HG23	1:E:69:PRO:HD2	2.03	0.41
1:B:945:SER:CB	1:B:946:ALA:C	2.89	0.41
1:G:556:PRO:HG3	5:T:52:VAL:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:924:VAL:HG21	1:B:14:ILE:HD13	1.88	0.41
1:G:264:GLN:NE2	1:H:445:PHE:CZ	2.77	0.41
1:D:924:VAL:HG12	1:D:925:VAL:H	1.84	0.41
1:C:62:ARG:HD3	1:C:64:THR:O	2.21	0.41
1:I:68:ILE:HG23	1:I:69:PRO:HD2	2.03	0.41
1:E:640:GLN:HB3	1:F:43:LYS:O	2.21	0.41
1:I:941:ARG:HD2	1:I:944:PHE:O	2.20	0.41
1:D:87:VAL:O	1:D:88:GLY:C	2.59	0.41
1:B:344:MET:HE1	2:M:455:ARG:NH2	2.36	0.41
1:D:884:LEU:HB3	1:E:49:VAL:HA	2.03	0.41
1:I:202:GLU:HA	1:I:203:PRO:HD3	1.92	0.41
1:J:120:TYR:HA	1:L:823:ASN:HD21	1.86	0.41
1:H:824:ASN:OD1	1:I:121:ASN:C	2.58	0.41
4:O:17:MET:HB3	4:O:19:LEU:HD23	2.03	0.41
1:A:827:PHE:CE2	1:B:124:ALA:CB	3.02	0.41
1:B:677:TRP:HE1	1:B:902:MET:HE2	1.86	0.41
2:M:70:TYR:O	2:M:95:VAL:HG13	2.21	0.41
1:D:389:ALA:HB3	1:D:545:ARG:HD3	2.03	0.41
1:J:843:ALA:O	1:K:236:TYR:HA	2.20	0.41
1:G:200:GLN:HA	1:G:201:PRO:C	2.40	0.41
1:B:50:ALA:HB1	1:B:51:PRO:HD2	2.03	0.41
1:I:738:THR:HA	1:I:739:PRO:HD2	1.86	0.41
1:B:587:ASP:OD1	1:B:601:ARG:HD3	2.21	0.41
4:O:87:THR:HG22	4:O:89:VAL:HG13	2.03	0.41
1:A:133:GLU:OE2	1:A:167:VAL:HG22	2.19	0.41
1:K:942:THR:HA	4:O:28:SER:O	2.21	0.41
1:A:24:SER:HB2	4:O:201:PHE:C	2.41	0.41
1:C:635:ASN:OD1	1:C:637:THR:N	2.38	0.41
1:K:940:LEU:HD13	4:O:31:ILE:CA	2.50	0.41
1:H:9:TRP:O	1:H:13:HIS:N	2.53	0.41
1:H:50:ALA:HB1	1:H:51:PRO:HD2	2.03	0.41
1:L:2:THR:O	1:L:3:PRO:C	2.59	0.41
5:Q:40:LEU:HD22	5:Q:46:THR:HG21	2.03	0.41
1:G:430:PRO:HG3	1:I:180:LYS:HD3	2.03	0.41
1:G:937:THR:N	4:P:40:MET:SD	2.94	0.41
1:K:430:PRO:O	1:K:431:LYS:CB	2.69	0.41
1:H:430:PRO:O	1:H:431:LYS:CB	2.68	0.41
1:E:432:THR:HG22	1:E:433:GLY:N	2.36	0.41
1:C:432:THR:HG22	1:C:433:GLY:N	2.36	0.41
1:B:178:ILE:CG2	1:B:281:PRO:HG3	2.50	0.41
1:I:240:THR:HB	1:I:249:LEU:CG	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:106:ALA:CB	2:M:109:GLN:CD	2.89	0.41
1:C:24:SER:OG	1:C:27:LEU:HB3	2.21	0.41
1:E:19:ALA:CB	1:E:23:LEU:HD11	2.40	0.41
5:T:22:TRP:HB2	5:T:25:VAL:HG23	2.03	0.41
1:L:24:SER:OG	1:L:27:LEU:HB3	2.21	0.41
1:F:444:GLU:HG2	1:F:445:PHE:O	2.21	0.41
1:A:445:PHE:HZ	1:C:264:GLN:NE2	2.19	0.41
1:H:587:ASP:OD1	1:H:601:ARG:HD3	2.21	0.41
5:S:40:LEU:HD22	5:S:46:THR:HG21	2.03	0.41
1:J:805:VAL:HG11	1:J:847:TYR:CD2	2.55	0.41
3:N:279:THR:CG2	4:O:80:TYR:HH	2.32	0.41
1:B:847:TYR:HA	1:B:848:PRO:HD3	1.91	0.41
1:G:68:ILE:HG23	1:G:69:PRO:HD2	2.03	0.41
1:G:574:LEU:HB3	1:G:575:PRO:CD	2.51	0.41
1:K:95:MET:CG	1:K:573:LEU:HD12	2.48	0.41
1:J:95:MET:CG	1:J:573:LEU:HD12	2.48	0.41
1:G:43:LYS:HB3	1:I:640:GLN:OE1	2.19	0.41
1:L:419:VAL:HG21	1:L:452:ARG:CG	2.50	0.41
1:L:929:ARG:CG	1:L:929:ARG:NH1	2.73	0.41
1:J:774:ASN:HD21	1:J:880:SER:N	1.96	0.41
1:B:87:VAL:O	1:B:88:GLY:C	2.59	0.41
1:J:87:VAL:O	1:J:88:GLY:C	2.59	0.41
1:L:921:VAL:HG12	1:L:943:PRO:HD2	2.03	0.41
1:I:278:ASN:CB	1:I:280:THR:HG23	2.51	0.41
1:B:752:GLY:CA	1:C:103:ARG:HD2	2.42	0.41
1:D:751:GLU:O	1:E:558:HIS:CE1	2.74	0.41
1:B:346:VAL:CG2	2:M:455:ARG:CG	2.99	0.41
1:D:419:VAL:HG21	1:D:452:ARG:CG	2.50	0.41
1:D:452:ARG:O	1:F:170:GLN:HA	2.21	0.41
1:A:942:THR:HA	1:A:943:PRO:C	2.40	0.41
1:A:921:VAL:HG12	1:A:943:PRO:HD2	2.03	0.41
4:O:183:ILE:CG2	4:O:184:GLY:H	2.34	0.41
1:B:820:HIS:HD2	1:C:202:GLU:CD	2.25	0.41
1:G:877:ASN:ND2	1:H:619:PHE:CE1	2.88	0.41
1:C:414:PHE:HB3	1:C:415:PRO:HD2	2.02	0.41
1:G:827:PHE:CE2	1:H:124:ALA:CB	3.00	0.41
1:H:278:ASN:CB	1:H:280:THR:HG23	2.51	0.41
1:K:570:ASN:O	1:L:43:LYS:CD	2.69	0.41
1:B:213:THR:O	1:B:214:GLU:HB2	2.21	0.41
1:F:389:ALA:HB3	1:F:545:ARG:HD3	2.02	0.41
1:G:332:PHE:CZ	1:G:387:ASN:HB2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:91:ARG:HH11	1:L:91:ARG:HG3	1.85	0.41
1:D:91:ARG:HH11	1:D:91:ARG:HG3	1.85	0.41
1:J:50:ALA:HB1	1:J:51:PRO:HD2	2.03	0.41
1:J:409:LEU:HD23	1:K:833:PRO:HB3	2.03	0.41
1:G:794:PHE:HE1	1:H:383:PHE:CD2	2.39	0.41
1:G:446:SER:OG	1:I:166:HIS:CD2	2.74	0.41
1:F:200:GLN:HA	1:F:201:PRO:C	2.40	0.41
1:A:838:GLY:CA	1:B:203:PRO:O	2.69	0.41
1:C:200:GLN:HA	1:C:201:PRO:C	2.41	0.41
2:M:111:ILE:HB	2:M:535:ILE:HB	2.03	0.41
1:D:587:ASP:OD1	1:D:601:ARG:HD3	2.21	0.41
4:P:87:THR:HG22	4:P:89:VAL:HG13	2.03	0.41
1:C:904:PHE:CD1	1:C:915:LEU:HD21	2.56	0.41
1:K:200:GLN:HA	1:K:201:PRO:C	2.41	0.41
1:L:50:ALA:HB1	1:L:51:PRO:HD2	2.03	0.41
1:G:659:ALA:HA	5:Q:86:ALA:CB	2.51	0.41
1:F:929:ARG:NH1	1:F:929:ARG:CG	2.73	0.41
1:K:672:ALA:HB2	1:K:894:ALA:HA	2.02	0.41
1:J:556:PRO:CG	5:Q:52:VAL:HG23	2.51	0.41
1:G:903:THR:OG1	1:J:948:ASN:HB3	2.18	0.41
1:J:669:ARG:HH21	1:J:950:THR:CG2	2.16	0.41
1:K:251:LYS:O	1:K:256:LYS:CB	2.69	0.41
1:A:68:ILE:CD1	1:A:69:PRO:CD	2.92	0.41
1:E:70:VAL:O	1:E:71:ASP:OD1	2.39	0.41
1:F:22:TYR:HE1	1:F:23:LEU:CD2	2.14	0.41
1:E:638:ASN:HD22	1:F:27:LEU:CD1	2.29	0.41
1:C:740:ASN:CG	1:E:341:THR:OG1	2.59	0.41
1:I:861:LYS:HE2	1:I:861:LYS:HB2	1.62	0.41
1:D:463:LEU:CD2	1:E:463:LEU:HD21	2.31	0.41
1:C:623:HIS:HB3	4:O:222:SER:HB2	2.03	0.41
1:C:187:VAL:CB	1:C:192:PRO:HA	2.48	0.41
1:J:178:ILE:HG23	1:J:284:VAL:HG21	2.02	0.41
1:L:187:VAL:HG12	1:L:192:PRO:CB	2.48	0.41
1:K:777:TYR:CZ	1:L:63:LEU:HD21	2.56	0.41
1:C:278:ASN:CB	1:C:280:THR:HG23	2.51	0.41
1:G:87:VAL:O	1:G:88:GLY:C	2.59	0.41
1:K:87:VAL:O	1:K:88:GLY:C	2.59	0.41
1:H:574:LEU:HB3	1:H:575:PRO:CD	2.51	0.41
1:D:574:LEU:HB3	1:D:575:PRO:CD	2.51	0.41
1:J:419:VAL:HG21	1:J:452:ARG:CG	2.50	0.41
1:D:751:GLU:O	1:D:754:ASN:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:415:PRO:O	1:F:125:PRO:HG2	2.21	0.41
1:D:211:TYR:HE1	1:F:311:ARG:HH12	1.67	0.41
1:D:209:GLN:NE2	1:D:213:THR:HB	2.36	0.41
1:G:818:ILE:HG13	1:G:818:ILE:H	1.65	0.41
1:A:213:THR:O	1:A:214:GLU:HB2	2.21	0.41
1:H:389:ALA:HB3	1:H:545:ARG:HD3	2.03	0.41
1:B:389:ALA:HB3	1:B:545:ARG:HD3	2.03	0.41
1:J:780:PHE:HB2	1:K:386:TRP:HZ2	1.85	0.41
1:B:782:ILE:HG12	1:C:383:PHE:HB2	2.03	0.41
1:H:464:ASN:HD21	1:I:467:LEU:CD2	2.33	0.41
1:E:509:ALA:HA	1:E:510:PRO:HD3	1.93	0.41
3:N:74:LEU:HD23	3:N:74:LEU:O	2.20	0.41
1:H:596:LEU:HA	1:H:596:LEU:HD12	1.87	0.41
1:C:635:ASN:CB	1:C:638:ASN:ND2	2.67	0.40
1:A:14:ILE:HD13	1:C:924:VAL:HG21	1.88	0.40
4:O:7:THR:CG2	4:O:25:GLN:CG	2.90	0.40
4:P:209:PRO:O	4:P:211:GLN:N	2.53	0.40
1:E:278:ASN:CB	1:E:280:THR:HG23	2.51	0.40
1:F:432:THR:HG22	1:F:433:GLY:N	2.35	0.40
1:L:178:ILE:HG23	1:L:284:VAL:HG21	2.02	0.40
1:B:251:LYS:O	1:B:256:LYS:CB	2.69	0.40
1:H:251:LYS:O	1:H:256:LYS:CB	2.69	0.40
1:H:178:ILE:CG2	1:H:281:PRO:HG3	2.51	0.40
1:D:251:LYS:O	1:D:256:LYS:CB	2.69	0.40
1:H:61:GLN:NE2	1:H:623:HIS:CE1	2.80	0.40
1:J:68:ILE:HG23	1:J:69:PRO:HD2	2.03	0.40
1:E:62:ARG:HD3	1:E:64:THR:O	2.21	0.40
1:J:6:MET:CB	1:J:7:PRO:CD	2.43	0.40
1:E:266:PHE:CE1	1:E:285:LEU:HD12	2.57	0.40
1:J:445:PHE:CZ	1:L:264:GLN:NE2	2.86	0.40
1:C:178:ILE:HG23	1:C:284:VAL:HG21	2.02	0.40
1:I:268:THR:O	1:I:269:THR:HB	2.21	0.40
1:F:95:MET:CG	1:F:573:LEU:HD13	2.49	0.40
1:A:95:MET:CG	1:A:573:LEU:HD12	2.48	0.40
1:F:68:ILE:HG23	1:F:69:PRO:HD2	2.03	0.40
1:J:574:LEU:HB3	1:J:575:PRO:CD	2.52	0.40
1:I:672:ALA:O	1:I:673:ALA:HB3	2.20	0.40
1:J:415:PRO:O	1:L:125:PRO:HG2	2.21	0.40
1:G:801:SER:HB2	1:H:548:LEU:O	2.21	0.40
1:E:213:THR:O	1:E:214:GLU:HB2	2.21	0.40
1:B:209:GLN:NE2	1:B:213:THR:HB	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:657:ALA:O	5:R:133:ALA:CB	2.68	0.40
1:A:469:ARG:CZ	1:C:409:LEU:HD13	2.51	0.40
1:D:469:ARG:CZ	1:F:409:LEU:HD13	2.51	0.40
1:H:904:PHE:CD1	1:H:915:LEU:HD21	2.56	0.40
5:Q:26:ARG:HB2	5:Q:27:GLN:H	1.76	0.40
1:D:197:LYS:HG2	1:D:286:TYR:HE2	1.85	0.40
1:L:197:LYS:HG2	1:L:286:TYR:HE2	1.85	0.40
1:A:14:ILE:CD1	1:C:924:VAL:CG2	2.70	0.40
1:G:668:SER:O	1:G:669:ARG:HB3	2.21	0.40
1:H:5:MET:HE3	4:P:29:THR:OG1	2.19	0.40
1:J:430:PRO:O	1:J:431:LYS:CB	2.69	0.40
1:D:219:ALA:HA	1:D:284:VAL:O	2.21	0.40
1:C:240:THR:HB	1:C:249:LEU:CG	2.50	0.40
1:K:50:ALA:HB1	1:K:51:PRO:HD2	2.03	0.40
1:J:59:ARG:CZ	4:P:93:ARG:HD2	2.52	0.40
4:P:93:ARG:NH1	4:P:160:PRO:CB	2.73	0.40
5:Q:111:THR:CG2	5:T:110:LEU:CG	2.86	0.40
1:J:924:VAL:HG12	1:J:925:VAL:H	1.84	0.40
5:S:18:ARG:O	5:S:20:PRO:HD3	2.21	0.40
1:D:165:THR:HB	1:E:445:PHE:H	1.86	0.40
1:F:268:THR:O	1:F:269:THR:HB	2.22	0.40
1:I:62:ARG:HD3	1:I:64:THR:O	2.21	0.40
1:C:419:VAL:HG21	1:C:452:ARG:CG	2.50	0.40
1:B:80:LYS:HE2	1:B:80:LYS:HB2	1.38	0.40
1:F:637:THR:CB	4:P:200:PRO:CG	2.99	0.40
1:G:778:GLN:HG2	1:H:94:ASP:CG	2.41	0.40
5:S:103:LEU:HD23	5:T:107:LEU:CD2	2.51	0.40
1:J:209:GLN:NE2	1:J:213:THR:HB	2.36	0.40
1:D:50:ALA:HB1	1:D:51:PRO:HD2	2.03	0.40
5:R:111:THR:O	5:R:115:ASN:HB2	2.21	0.40
1:G:464:ASN:HD21	1:H:467:LEU:CD2	2.34	0.40
1:J:197:LYS:HG2	1:J:286:TYR:HE2	1.85	0.40
1:K:950:THR:O	4:O:33:TYR:CE1	2.75	0.40
1:A:574:LEU:HB3	1:A:575:PRO:CD	2.51	0.40
1:A:89:ASP:HB2	1:E:351:ALA:O	2.21	0.40
1:G:945:SER:HB2	4:P:30:ARG:N	2.35	0.40
4:P:44:VAL:CG1	4:P:48:ARG:CZ	2.99	0.40
1:L:219:ALA:HA	1:L:284:VAL:O	2.21	0.40
1:A:251:LYS:O	1:A:256:LYS:CB	2.68	0.40
1:D:278:ASN:CB	1:D:280:THR:HG23	2.51	0.40
1:L:432:THR:HG22	1:L:433:GLY:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:68:ILE:HG21	1:J:82:ARG:CZ	2.50	0.40
1:K:248:ILE:O	1:K:249:LEU:CD1	2.70	0.40
5:S:110:LEU:HD23	5:T:114:LEU:HD23	2.04	0.40
1:H:924:VAL:CG1	1:H:925:VAL:N	2.83	0.40
2:M:48:PRO:CD	3:N:106:ASN:CB	2.93	0.40
1:B:444:GLU:HG2	1:B:445:PHE:O	2.20	0.40
1:A:282:LYS:O	1:A:283:VAL:CG2	2.69	0.40
1:H:690:LEU:O	5:S:21:PRO:C	2.60	0.40
1:E:574:LEU:HB3	1:E:575:PRO:CD	2.52	0.40
1:K:574:LEU:HB3	1:K:575:PRO:HD2	2.03	0.40
1:B:574:LEU:HB3	1:B:575:PRO:CD	2.52	0.40
1:D:942:THR:HA	1:D:943:PRO:C	2.40	0.40
1:A:778:GLN:HG2	1:B:94:ASP:CB	2.51	0.40
1:J:818:ILE:HG13	1:J:818:ILE:H	1.64	0.40
1:J:842:PRO:HA	1:K:235:SER:HB3	2.04	0.40
1:E:886:ASP:HB3	1:F:51:PRO:O	2.20	0.40
3:N:43:ASP:O	3:N:47:GLN:HG3	2.21	0.40
1:J:12:MET:HE1	1:L:938:VAL:O	2.20	0.40
1:A:67:PHE:HB2	1:A:614:LEU:HB3	2.02	0.40
1:I:904:PHE:CD1	1:I:915:LEU:HD21	2.56	0.40
4:P:80:TYR:HA	4:P:80:TYR:HD1	1.71	0.40
1:I:578:TYR:CE2	1:I:935:ILE:HD11	2.55	0.40
1:A:904:PHE:CD1	1:A:915:LEU:HD21	2.56	0.40
1:F:87:VAL:O	1:F:88:GLY:C	2.59	0.40
1:C:631:ALA:O	4:O:201:PHE:CE1	2.74	0.40
1:A:87:VAL:O	1:A:88:GLY:C	2.59	0.40
1:F:930:PRO:HG3	4:P:27:TYR:CG	2.57	0.40
1:G:669:ARG:O	1:G:897:ALA:CB	2.52	0.40
1:G:891:LEU:O	1:G:895:ASN:N	2.49	0.40
1:C:728:VAL:CG1	1:E:948:ASN:HB2	2.50	0.40
5:Q:20:PRO:HG2	5:Q:25:VAL:HG11	2.02	0.40
1:G:251:LYS:O	1:G:256:LYS:CB	2.68	0.40
1:C:248:ILE:CG2	1:C:249:LEU:H	2.05	0.40
1:K:180:LYS:HD3	1:L:430:PRO:HG3	1.99	0.40
1:K:61:GLN:HG3	1:K:91:ARG:HH21	1.87	0.40
1:A:70:VAL:HG12	1:A:82:ARG:O	2.22	0.40
1:G:103:ARG:NH1	1:I:752:GLY:H	2.20	0.40
1:C:349:GLY:C	1:C:351:ALA:N	2.74	0.40
1:C:87:VAL:O	1:C:88:GLY:C	2.59	0.40
1:L:924:VAL:HG12	1:L:925:VAL:H	1.85	0.40
1:L:924:VAL:CG1	1:L:925:VAL:N	2.83	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:133:GLU:OE2	1:I:264:GLN:OE1	2.38	0.40
1:B:187:VAL:HG12	1:B:192:PRO:CB	2.48	0.40
1:L:191:THR:HA	1:L:192:PRO:HD3	1.75	0.40
1:B:691:GLY:C	2:M:82:LEU:HD23	2.41	0.40
1:G:570:ASN:HB3	1:H:42:ASN:HD21	1.82	0.40
1:H:87:VAL:O	1:H:88:GLY:C	2.59	0.40
1:B:876:SER:OG	1:C:56:THR:CB	2.69	0.40
1:B:459:MET:HG2	1:C:459:MET:HE2	2.02	0.40
1:E:202:GLU:HA	1:E:203:PRO:HD3	1.92	0.40
1:G:37:TYR:HA	1:H:879:MET:CE	2.52	0.40
1:B:278:ASN:CB	1:B:280:THR:HG23	2.51	0.40
1:H:779:GLY:CA	1:I:96:ALA:O	2.68	0.40
2:M:185:ASN:O	2:M:189:VAL:HG23	2.21	0.40
1:G:389:ALA:HB3	1:G:545:ARG:HD3	2.02	0.40
1:J:641:SER:OG	1:K:45:ARG:CB	2.69	0.40
1:B:794:PHE:HE1	1:C:383:PHE:CD2	2.39	0.40
1:G:473:TYR:HA	1:G:477:ALA:HB3	2.04	0.40
1:G:596:LEU:HA	1:G:596:LEU:HD12	1.88	0.40
1:D:904:PHE:CD1	1:D:915:LEU:HD21	2.56	0.40
1:D:464:ASN:HD21	1:E:467:LEU:CD2	2.35	0.40
1:A:6:MET:O	1:A:7:PRO:C	2.59	0.40
1:K:940:LEU:HG	1:K:942:THR:HG22	2.04	0.40
1:L:11:TYR:CE1	4:O:43:ARG:NE	2.83	0.40
1:E:248:ILE:O	1:E:249:LEU:CD1	2.70	0.40
1:H:248:ILE:O	1:H:249:LEU:CD1	2.70	0.40
1:G:248:ILE:O	1:G:249:LEU:CD1	2.70	0.40
1:J:248:ILE:O	1:J:249:LEU:CD1	2.70	0.40
1:F:178:ILE:CG2	1:F:281:PRO:HG3	2.51	0.40
1:F:279:LEU:HD22	1:F:279:LEU:HA	1.84	0.40
1:K:69:PRO:CB	1:K:72:ARG:HG3	2.52	0.40
1:K:69:PRO:HB2	1:K:72:ARG:HG3	2.02	0.40
1:K:248:ILE:CG2	1:K:249:LEU:H	2.06	0.40
1:B:360:LEU:CD1	2:M:108:THR:HA	2.52	0.40
1:J:61:GLN:NE2	1:J:623:HIS:CE1	2.80	0.40
3:N:271:ASP:HB2	4:O:61:ILE:HG23	2.02	0.40
1:K:178:ILE:HG23	1:K:284:VAL:HG21	2.04	0.40
1:L:268:THR:O	1:L:269:THR:HB	2.21	0.40
1:I:574:LEU:HB3	1:I:575:PRO:CD	2.52	0.40
1:I:87:VAL:O	1:I:88:GLY:C	2.59	0.40
1:E:419:VAL:HG21	1:E:452:ARG:CG	2.50	0.40
1:H:171:ALA:N	1:I:452:ARG:O	2.43	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:519:LEU:HD13	1:E:115:TYR:CZ	2.57	0.40
1:E:414:PHE:HB3	1:E:415:PRO:HD2	2.02	0.40
1:K:414:PHE:HB3	1:K:415:PRO:HD2	2.02	0.40
1:A:278:ASN:CB	1:A:280:THR:HG23	2.51	0.40
1:J:403:HIS:HB2	1:K:325:TYR:OH	2.21	0.40
1:K:213:THR:O	1:K:214:GLU:HB2	2.21	0.40
1:J:389:ALA:HB3	1:J:545:ARG:HD3	2.02	0.40
2:M:119:TRP:CE3	2:M:563:PRO:HB2	2.56	0.40
1:E:409:LEU:HD13	1:F:469:ARG:CZ	2.52	0.40
1:A:473:TYR:HA	1:A:477:ALA:HB3	2.04	0.40
1:A:50:ALA:HB1	1:A:51:PRO:HD2	2.03	0.40
1:B:641:SER:OG	1:C:45:ARG:HB3	2.22	0.40
4:O:108:LEU:HD12	4:O:108:LEU:O	2.21	0.40
1:I:864:LEU:HA	1:I:864:LEU:HD12	1.96	0.40
1:D:236:TYR:HA	1:F:843:ALA:O	2.21	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles ⓘ

### 5.3.1 Protein backbone ⓘ

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	911/952 (96%)	821 (90%)	71 (8%)	19 (2%)	9	52
1	B	911/952 (96%)	824 (90%)	67 (7%)	20 (2%)	8	51
1	C	916/952 (96%)	817 (89%)	73 (8%)	26 (3%)	6	45
1	D	912/952 (96%)	821 (90%)	72 (8%)	19 (2%)	9	52
1	E	913/952 (96%)	821 (90%)	72 (8%)	20 (2%)	8	51
1	F	913/952 (96%)	816 (89%)	75 (8%)	22 (2%)	7	49
1	G	913/952 (96%)	819 (90%)	71 (8%)	23 (2%)	7	48
1	H	915/952 (96%)	824 (90%)	71 (8%)	20 (2%)	8	51

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	I	913/952 (96%)	827 (91%)	67 (7%)	19 (2%)	9	52
1	J	914/952 (96%)	821 (90%)	69 (8%)	24 (3%)	7	46
1	K	915/952 (96%)	817 (89%)	73 (8%)	25 (3%)	6	46
1	L	915/952 (96%)	824 (90%)	71 (8%)	20 (2%)	8	51
2	M	451/571 (79%)	341 (76%)	85 (19%)	25 (6%)	2	26
3	N	280/585 (48%)	248 (89%)	27 (10%)	5 (2%)	11	54
4	O	172/227 (76%)	140 (81%)	24 (14%)	8 (5%)	3	30
4	P	172/227 (76%)	139 (81%)	26 (15%)	7 (4%)	3	34
5	Q	126/140 (90%)	102 (81%)	18 (14%)	6 (5%)	3	30
5	R	87/140 (62%)	71 (82%)	12 (14%)	4 (5%)	3	31
5	S	82/140 (59%)	66 (80%)	13 (16%)	3 (4%)	4	38
5	T	80/140 (57%)	69 (86%)	8 (10%)	3 (4%)	4	37
All	All	12411/13594 (91%)	11028 (89%)	1065 (9%)	318 (3%)	11	46

All (318) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	35	GLU
1	A	248	ILE
1	A	249	LEU
1	A	257	LEU
1	A	261	VAL
1	A	748	VAL
1	B	35	GLU
1	B	248	ILE
1	B	249	LEU
1	B	257	LEU
1	B	261	VAL
1	B	748	VAL
1	B	948	ASN
1	C	8	GLN
1	C	9	TRP
1	C	35	GLU
1	C	248	ILE
1	C	249	LEU
1	C	257	LEU
1	C	261	VAL
1	C	741	GLU

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Mol	Chain	Res	Type
1	C	748	VAL
1	D	6	MET
1	D	35	GLU
1	D	248	ILE
1	D	249	LEU
1	D	257	LEU
1	D	261	VAL
1	E	6	MET
1	E	35	GLU
1	E	248	ILE
1	E	249	LEU
1	E	257	LEU
1	E	261	VAL
1	E	748	VAL
1	F	6	MET
1	F	35	GLU
1	F	248	ILE
1	F	249	LEU
1	F	257	LEU
1	F	261	VAL
1	F	670	ASN
1	F	748	VAL
1	F	948	ASN
1	G	6	MET
1	G	35	GLU
1	G	248	ILE
1	G	249	LEU
1	G	257	LEU
1	G	261	VAL
1	G	748	VAL
1	G	945	SER
1	H	3	PRO
1	H	35	GLU
1	H	248	ILE
1	H	249	LEU
1	H	257	LEU
1	H	261	VAL
1	H	748	VAL
1	I	6	MET
1	I	35	GLU
1	I	248	ILE
1	I	249	LEU

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Mol	Chain	Res	Type
1	I	257	LEU
1	I	261	VAL
1	I	748	VAL
1	I	946	ALA
1	J	6	MET
1	J	35	GLU
1	J	248	ILE
1	J	249	LEU
1	J	257	LEU
1	J	261	VAL
1	J	748	VAL
1	J	948	ASN
1	K	6	MET
1	K	35	GLU
1	K	248	ILE
1	K	249	LEU
1	K	257	LEU
1	K	261	VAL
1	K	694	TYR
1	K	727	SER
1	K	748	VAL
1	K	945	SER
1	L	3	PRO
1	L	35	GLU
1	L	248	ILE
1	L	249	LEU
1	L	257	LEU
1	L	261	VAL
1	L	748	VAL
1	L	946	ALA
2	M	81	SER
2	M	156	ASP
2	M	378	VAL
3	N	34	ILE
3	N	49	PRO
4	O	93	ARG
4	O	209	PRO
4	P	93	ARG
4	P	209	PRO
5	Q	18	ARG
5	Q	38	PRO
5	R	18	ARG

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Mol	Chain	Res	Type
5	R	38	PRO
5	R	135	SER
5	S	38	PRO
5	T	18	ARG
5	T	38	PRO
1	A	88	GLY
1	A	251	LYS
1	A	279	LEU
1	A	432	THR
1	A	727	SER
1	A	946	ALA
1	B	88	GLY
1	B	251	LYS
1	B	279	LEU
1	B	432	THR
1	B	694	TYR
1	B	727	SER
1	C	88	GLY
1	C	251	LYS
1	C	279	LEU
1	C	341	THR
1	C	350	GLN
1	C	432	THR
1	C	727	SER
1	C	949	ALA
1	D	88	GLY
1	D	251	LYS
1	D	279	LEU
1	D	432	THR
1	D	727	SER
1	D	749	ASP
1	E	88	GLY
1	E	251	LYS
1	E	279	LEU
1	E	432	THR
1	E	727	SER
1	E	947	GLY
1	F	88	GLY
1	F	251	LYS
1	F	279	LEU
1	F	350	GLN
1	F	432	THR

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Mol	Chain	Res	Type
1	F	727	SER
1	F	949	ALA
1	G	88	GLY
1	G	251	LYS
1	G	279	LEU
1	G	432	THR
1	G	727	SER
1	G	948	ASN
1	H	88	GLY
1	H	251	LYS
1	H	279	LEU
1	H	432	THR
1	H	727	SER
1	H	945	SER
1	H	946	ALA
1	I	88	GLY
1	I	251	LYS
1	I	279	LEU
1	I	432	THR
1	I	727	SER
1	J	88	GLY
1	J	251	LYS
1	J	279	LEU
1	J	432	THR
1	J	727	SER
1	J	892	LEU
1	J	895	ASN
1	J	946	ALA
1	K	5	MET
1	K	88	GLY
1	K	251	LYS
1	K	279	LEU
1	K	432	THR
1	K	894	ALA
1	K	948	ASN
1	L	88	GLY
1	L	251	LYS
1	L	279	LEU
1	L	432	THR
1	L	727	SER
2	M	80	ALA
2	M	85	GLN

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Mol	Chain	Res	Type
2	M	99	ASN
2	M	103	PRO
2	M	153	PRO
2	M	449	VAL
4	O	27	TYR
4	O	69	LEU
4	O	211	GLN
4	P	27	TYR
4	P	69	LEU
4	P	211	GLN
5	Q	19	MET
5	Q	56	PRO
5	Q	85	LEU
5	R	19	MET
5	T	19	MET
1	A	258	GLU
1	A	431	LYS
1	B	258	GLU
1	C	258	GLU
1	D	258	GLU
1	D	946	ALA
1	E	258	GLU
1	E	341	THR
1	F	258	GLU
1	G	258	GLU
1	G	667	PRO
1	H	258	GLU
1	I	258	GLU
1	J	258	GLU
1	J	891	LEU
1	J	947	GLY
1	K	8	GLN
1	K	258	GLU
1	K	667	PRO
1	L	258	GLU
2	M	208	VAL
2	M	429	ASP
3	N	155	PRO
4	O	20	ALA
4	O	200	PRO
4	O	210	ASP
4	P	20	ALA

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Mol	Chain	Res	Type
4	P	210	ASP
1	A	7	PRO
1	A	260	GLN
1	A	271	ALA
1	B	260	GLN
1	B	271	ALA
1	C	7	PRO
1	C	260	GLN
1	C	271	ALA
1	C	283	VAL
1	C	739	PRO
1	D	260	GLN
1	D	271	ALA
1	E	260	GLN
1	E	271	ALA
1	F	260	GLN
1	F	271	ALA
1	G	260	GLN
1	G	271	ALA
1	G	690	LEU
1	G	691	GLY
1	H	260	GLN
1	H	271	ALA
1	I	260	GLN
1	I	271	ALA
1	J	260	GLN
1	J	271	ALA
1	K	260	GLN
1	K	271	ALA
1	L	260	GLN
1	L	271	ALA
2	M	151	ARG
2	M	552	PRO
3	N	17	GLN
1	A	187	VAL
1	B	187	VAL
1	B	944	PHE
1	C	187	VAL
1	C	431	LYS
1	D	187	VAL
1	E	187	VAL
1	F	187	VAL

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Mol	Chain	Res	Type
1	G	187	VAL
1	H	187	VAL
1	I	187	VAL
1	J	187	VAL
1	K	187	VAL
1	L	187	VAL
2	M	41	VAL
2	M	102	SER
2	M	152	LEU
2	M	176	SER
2	M	388	LYS
3	N	207	ASN
5	Q	84	PRO
1	B	431	LYS
1	D	431	LYS
1	E	431	LYS
1	F	431	LYS
1	G	431	LYS
1	H	431	LYS
1	I	431	LYS
1	J	431	LYS
1	K	431	LYS
1	L	7	PRO
1	L	431	LYS
2	M	120	GLY
2	M	200	GLY
2	M	459	ASN
2	M	513	ILE
5	S	11	VAL
5	S	19	MET
1	A	419	VAL
1	B	419	VAL
1	D	419	VAL
1	E	419	VAL
1	F	419	VAL
1	G	419	VAL
1	H	419	VAL
1	I	419	VAL
1	K	419	VAL
1	L	419	VAL
1	C	419	VAL
1	J	419	VAL

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Mol	Chain	Res	Type
2	M	481	VAL
2	M	50	GLY
2	M	95	VAL

### 5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	796/829 (96%)	752 (94%)	44 (6%)	27	68
1	B	796/829 (96%)	751 (94%)	45 (6%)	25	67
1	C	801/829 (97%)	753 (94%)	48 (6%)	24	65
1	D	797/829 (96%)	754 (95%)	43 (5%)	27	68
1	E	798/829 (96%)	753 (94%)	45 (6%)	26	68
1	F	798/829 (96%)	754 (94%)	44 (6%)	27	68
1	G	798/829 (96%)	749 (94%)	49 (6%)	23	65
1	H	800/829 (96%)	754 (94%)	46 (6%)	25	66
1	I	798/829 (96%)	756 (95%)	42 (5%)	28	69
1	J	799/829 (96%)	751 (94%)	48 (6%)	24	65
1	K	800/829 (96%)	750 (94%)	50 (6%)	22	64
1	L	800/829 (96%)	756 (94%)	44 (6%)	27	68
2	M	412/489 (84%)	391 (95%)	21 (5%)	29	70
3	N	238/500 (48%)	220 (92%)	18 (8%)	16	56
4	O	145/186 (78%)	125 (86%)	20 (14%)	4	28
4	P	145/186 (78%)	128 (88%)	17 (12%)	7	35
5	Q	101/112 (90%)	91 (90%)	10 (10%)	10	44
5	R	79/112 (70%)	70 (89%)	9 (11%)	7	36
5	S	75/112 (67%)	67 (89%)	8 (11%)	8	40
5	T	73/112 (65%)	68 (93%)	5 (7%)	20	61
All	All	10849/11757 (92%)	10193 (94%)	656 (6%)	28	65

All (656) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	6	MET
1	A	8	GLN
1	A	22	TYR
1	A	37	TYR
1	A	38	PHE
1	A	59	ARG
1	A	62	ARG
1	A	66	ARG
1	A	70	VAL
1	A	89	ASP
1	A	108	ARG
1	A	193	LYS
1	A	204	GLN
1	A	209	GLN
1	A	213	THR
1	A	256	LYS
1	A	259	SER
1	A	275	ASN
1	A	278	ASN
1	A	279	LEU
1	A	354	LEU
1	A	355	ASN
1	A	379	ARG
1	A	432	THR
1	A	434	GLN
1	A	507	VAL
1	A	514	ASP
1	A	539	ASN
1	A	569	LYS
1	A	573	LEU
1	A	596	LEU
1	A	636	ASP
1	A	637	THR
1	A	660	THR
1	A	669	ARG
1	A	680	THR
1	A	718	LYS
1	A	818	ILE
1	A	836	ARG
1	A	855	VAL
1	A	861	LYS
1	A	864	LEU

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Mol	Chain	Res	Type
1	A	918	LEU
1	A	926	ARG
1	B	8	GLN
1	B	22	TYR
1	B	37	TYR
1	B	38	PHE
1	B	59	ARG
1	B	80	LYS
1	B	108	ARG
1	B	193	LYS
1	B	204	GLN
1	B	209	GLN
1	B	213	THR
1	B	256	LYS
1	B	259	SER
1	B	275	ASN
1	B	278	ASN
1	B	279	LEU
1	B	305	ILE
1	B	354	LEU
1	B	355	ASN
1	B	379	ARG
1	B	432	THR
1	B	434	GLN
1	B	438	TRP
1	B	507	VAL
1	B	514	ASP
1	B	539	ASN
1	B	569	LYS
1	B	573	LEU
1	B	596	LEU
1	B	636	ASP
1	B	637	THR
1	B	660	THR
1	B	669	ARG
1	B	680	THR
1	B	718	LYS
1	B	818	ILE
1	B	836	ARG
1	B	855	VAL
1	B	861	LYS
1	B	864	LEU

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Mol	Chain	Res	Type
1	B	889	GLN
1	B	891	LEU
1	B	918	LEU
1	B	926	ARG
1	B	945	SER
1	C	6	MET
1	C	8	GLN
1	C	22	TYR
1	C	37	TYR
1	C	38	PHE
1	C	62	ARG
1	C	108	ARG
1	C	193	LYS
1	C	204	GLN
1	C	209	GLN
1	C	213	THR
1	C	256	LYS
1	C	259	SER
1	C	275	ASN
1	C	278	ASN
1	C	279	LEU
1	C	341	THR
1	C	353	GLN
1	C	354	LEU
1	C	355	ASN
1	C	379	ARG
1	C	432	THR
1	C	434	GLN
1	C	507	VAL
1	C	514	ASP
1	C	539	ASN
1	C	569	LYS
1	C	573	LEU
1	C	596	LEU
1	C	636	ASP
1	C	638	ASN
1	C	660	THR
1	C	669	ARG
1	C	680	THR
1	C	718	LYS
1	C	725	ASP
1	C	728	VAL

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Mol	Chain	Res	Type
1	C	736	LEU
1	C	741	GLU
1	C	818	ILE
1	C	836	ARG
1	C	855	VAL
1	C	861	LYS
1	C	864	LEU
1	C	918	LEU
1	C	926	ARG
1	C	945	SER
1	C	948	ASN
1	D	8	GLN
1	D	22	TYR
1	D	37	TYR
1	D	38	PHE
1	D	59	ARG
1	D	108	ARG
1	D	193	LYS
1	D	204	GLN
1	D	209	GLN
1	D	213	THR
1	D	256	LYS
1	D	259	SER
1	D	275	ASN
1	D	278	ASN
1	D	279	LEU
1	D	354	LEU
1	D	355	ASN
1	D	379	ARG
1	D	432	THR
1	D	434	GLN
1	D	438	TRP
1	D	507	VAL
1	D	514	ASP
1	D	539	ASN
1	D	569	LYS
1	D	573	LEU
1	D	596	LEU
1	D	636	ASP
1	D	637	THR
1	D	660	THR
1	D	669	ARG

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Mol	Chain	Res	Type
1	D	680	THR
1	D	718	LYS
1	D	748	VAL
1	D	818	ILE
1	D	836	ARG
1	D	855	VAL
1	D	861	LYS
1	D	864	LEU
1	D	889	GLN
1	D	918	LEU
1	D	926	ARG
1	D	948	ASN
1	E	8	GLN
1	E	22	TYR
1	E	37	TYR
1	E	38	PHE
1	E	59	ARG
1	E	62	ARG
1	E	73	GLU
1	E	108	ARG
1	E	193	LYS
1	E	204	GLN
1	E	209	GLN
1	E	213	THR
1	E	256	LYS
1	E	259	SER
1	E	275	ASN
1	E	278	ASN
1	E	279	LEU
1	E	339	ASN
1	E	343	ASN
1	E	354	LEU
1	E	355	ASN
1	E	379	ARG
1	E	432	THR
1	E	434	GLN
1	E	438	TRP
1	E	507	VAL
1	E	514	ASP
1	E	539	ASN
1	E	569	LYS
1	E	573	LEU

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Mol	Chain	Res	Type
1	E	596	LEU
1	E	636	ASP
1	E	637	THR
1	E	660	THR
1	E	669	ARG
1	E	680	THR
1	E	718	LYS
1	E	749	ASP
1	E	818	ILE
1	E	836	ARG
1	E	855	VAL
1	E	861	LYS
1	E	864	LEU
1	E	918	LEU
1	E	926	ARG
1	F	8	GLN
1	F	22	TYR
1	F	37	TYR
1	F	38	PHE
1	F	59	ARG
1	F	62	ARG
1	F	108	ARG
1	F	193	LYS
1	F	204	GLN
1	F	209	GLN
1	F	213	THR
1	F	256	LYS
1	F	259	SER
1	F	275	ASN
1	F	278	ASN
1	F	279	LEU
1	F	341	THR
1	F	343	ASN
1	F	353	GLN
1	F	354	LEU
1	F	355	ASN
1	F	379	ARG
1	F	432	THR
1	F	434	GLN
1	F	507	VAL
1	F	514	ASP
1	F	539	ASN

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Mol	Chain	Res	Type
1	F	569	LYS
1	F	573	LEU
1	F	596	LEU
1	F	608	LYS
1	F	637	THR
1	F	660	THR
1	F	669	ARG
1	F	680	THR
1	F	718	LYS
1	F	818	ILE
1	F	836	ARG
1	F	855	VAL
1	F	861	LYS
1	F	864	LEU
1	F	889	GLN
1	F	918	LEU
1	F	926	ARG
1	G	8	GLN
1	G	22	TYR
1	G	37	TYR
1	G	38	PHE
1	G	59	ARG
1	G	62	ARG
1	G	108	ARG
1	G	193	LYS
1	G	204	GLN
1	G	209	GLN
1	G	213	THR
1	G	256	LYS
1	G	259	SER
1	G	275	ASN
1	G	278	ASN
1	G	279	LEU
1	G	353	GLN
1	G	354	LEU
1	G	355	ASN
1	G	379	ARG
1	G	432	THR
1	G	434	GLN
1	G	438	TRP
1	G	507	VAL
1	G	514	ASP

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Mol	Chain	Res	Type
1	G	539	ASN
1	G	569	LYS
1	G	573	LEU
1	G	596	LEU
1	G	636	ASP
1	G	637	THR
1	G	660	THR
1	G	661	ASN
1	G	668	SER
1	G	669	ARG
1	G	680	THR
1	G	718	LYS
1	G	725	ASP
1	G	818	ILE
1	G	836	ARG
1	G	855	VAL
1	G	861	LYS
1	G	864	LEU
1	G	898	HIS
1	G	918	LEU
1	G	926	ARG
1	G	942	THR
1	G	948	ASN
1	G	950	THR
1	H	4	SER
1	H	5	MET
1	H	6	MET
1	H	8	GLN
1	H	22	TYR
1	H	37	TYR
1	H	38	PHE
1	H	59	ARG
1	H	103	ARG
1	H	108	ARG
1	H	193	LYS
1	H	204	GLN
1	H	209	GLN
1	H	213	THR
1	H	256	LYS
1	H	259	SER
1	H	275	ASN
1	H	278	ASN

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Mol	Chain	Res	Type
1	H	279	LEU
1	H	354	LEU
1	H	355	ASN
1	H	379	ARG
1	H	432	THR
1	H	434	GLN
1	H	507	VAL
1	H	514	ASP
1	H	539	ASN
1	H	569	LYS
1	H	573	LEU
1	H	596	LEU
1	H	601	ARG
1	H	636	ASP
1	H	637	THR
1	H	660	THR
1	H	669	ARG
1	H	680	THR
1	H	718	LYS
1	H	818	ILE
1	H	836	ARG
1	H	855	VAL
1	H	861	LYS
1	H	864	LEU
1	H	889	GLN
1	H	918	LEU
1	H	926	ARG
1	H	945	SER
1	I	8	GLN
1	I	22	TYR
1	I	37	TYR
1	I	38	PHE
1	I	59	ARG
1	I	62	ARG
1	I	108	ARG
1	I	193	LYS
1	I	204	GLN
1	I	209	GLN
1	I	213	THR
1	I	256	LYS
1	I	259	SER
1	I	275	ASN

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Mol	Chain	Res	Type
1	I	278	ASN
1	I	279	LEU
1	I	354	LEU
1	I	355	ASN
1	I	379	ARG
1	I	432	THR
1	I	434	GLN
1	I	507	VAL
1	I	514	ASP
1	I	539	ASN
1	I	569	LYS
1	I	573	LEU
1	I	596	LEU
1	I	636	ASP
1	I	637	THR
1	I	660	THR
1	I	669	ARG
1	I	680	THR
1	I	718	LYS
1	I	748	VAL
1	I	818	ILE
1	I	836	ARG
1	I	855	VAL
1	I	861	LYS
1	I	864	LEU
1	I	918	LEU
1	I	926	ARG
1	I	948	ASN
1	J	8	GLN
1	J	22	TYR
1	J	37	TYR
1	J	38	PHE
1	J	59	ARG
1	J	62	ARG
1	J	83	PHE
1	J	105	VAL
1	J	108	ARG
1	J	193	LYS
1	J	204	GLN
1	J	209	GLN
1	J	213	THR
1	J	256	LYS

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Mol	Chain	Res	Type
1	J	259	SER
1	J	275	ASN
1	J	278	ASN
1	J	279	LEU
1	J	353	GLN
1	J	354	LEU
1	J	355	ASN
1	J	379	ARG
1	J	432	THR
1	J	434	GLN
1	J	507	VAL
1	J	514	ASP
1	J	539	ASN
1	J	569	LYS
1	J	573	LEU
1	J	596	LEU
1	J	636	ASP
1	J	637	THR
1	J	660	THR
1	J	669	ARG
1	J	680	THR
1	J	718	LYS
1	J	818	ILE
1	J	836	ARG
1	J	855	VAL
1	J	861	LYS
1	J	864	LEU
1	J	890	ASN
1	J	891	LEU
1	J	895	ASN
1	J	918	LEU
1	J	926	ARG
1	J	948	ASN
1	J	950	THR
1	K	4	SER
1	K	8	GLN
1	K	22	TYR
1	K	37	TYR
1	K	38	PHE
1	K	59	ARG
1	K	60	SER
1	K	65	LEU

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Mol	Chain	Res	Type
1	K	67	PHE
1	K	108	ARG
1	K	193	LYS
1	K	204	GLN
1	K	209	GLN
1	K	213	THR
1	K	256	LYS
1	K	259	SER
1	K	275	ASN
1	K	278	ASN
1	K	279	LEU
1	K	354	LEU
1	K	355	ASN
1	K	379	ARG
1	K	432	THR
1	K	434	GLN
1	K	507	VAL
1	K	514	ASP
1	K	539	ASN
1	K	569	LYS
1	K	573	LEU
1	K	596	LEU
1	K	636	ASP
1	K	637	THR
1	K	660	THR
1	K	669	ARG
1	K	680	THR
1	K	718	LYS
1	K	727	SER
1	K	818	ILE
1	K	836	ARG
1	K	855	VAL
1	K	861	LYS
1	K	864	LEU
1	K	890	ASN
1	K	895	ASN
1	K	898	HIS
1	K	918	LEU
1	K	926	ARG
1	K	942	THR
1	K	948	ASN
1	K	950	THR

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Mol	Chain	Res	Type
1	L	4	SER
1	L	5	MET
1	L	8	GLN
1	L	22	TYR
1	L	37	TYR
1	L	38	PHE
1	L	59	ARG
1	L	108	ARG
1	L	193	LYS
1	L	204	GLN
1	L	209	GLN
1	L	213	THR
1	L	256	LYS
1	L	259	SER
1	L	275	ASN
1	L	278	ASN
1	L	279	LEU
1	L	354	LEU
1	L	355	ASN
1	L	379	ARG
1	L	432	THR
1	L	434	GLN
1	L	507	VAL
1	L	514	ASP
1	L	539	ASN
1	L	569	LYS
1	L	573	LEU
1	L	596	LEU
1	L	636	ASP
1	L	637	THR
1	L	660	THR
1	L	669	ARG
1	L	680	THR
1	L	718	LYS
1	L	748	VAL
1	L	818	ILE
1	L	836	ARG
1	L	855	VAL
1	L	861	LYS
1	L	864	LEU
1	L	889	GLN
1	L	918	LEU

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Mol	Chain	Res	Type
1	L	926	ARG
1	L	945	SER
2	M	55	ILE
2	M	84	TYR
2	M	99	ASN
2	M	101	TYR
2	M	108	THR
2	M	109	GLN
2	M	115	ASP
2	M	130	ASN
2	M	133	ASN
2	M	156	ASP
2	M	174	ASN
2	M	176	SER
2	M	182	ASP
2	M	211	ASP
2	M	271	PHE
2	M	276	ASP
2	M	395	SER
2	M	404	ARG
2	M	417	THR
2	M	429	ASP
2	M	436	GLN
3	N	21	LEU
3	N	26	ASP
3	N	27	TRP
3	N	93	LEU
3	N	106	ASN
3	N	117	LEU
3	N	130	ARG
3	N	132	GLN
3	N	154	VAL
3	N	166	SER
3	N	169	ARG
3	N	181	TYR
3	N	193	ARG
3	N	196	LEU
3	N	198	THR
3	N	287	GLN
3	N	297	LEU
3	N	300	LEU
4	O	4	GLU

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Mol	Chain	Res	Type
4	O	19	LEU
4	O	25	GLN
4	O	32	ASN
4	O	33	TYR
4	O	39	HIS
4	O	47	ILE
4	O	80	TYR
4	O	81	GLN
4	O	96	GLN
4	O	161	SER
4	O	169	LEU
4	O	186	LEU
4	O	196	VAL
4	O	197	TYR
4	O	202	SER
4	O	208	TYR
4	O	215	ASN
4	O	217	ASP
4	O	226	TYR
4	P	10	MET
4	P	14	GLN
4	P	19	LEU
4	P	29	THR
4	P	39	HIS
4	P	51	ARG
4	P	80	TYR
4	P	81	GLN
4	P	93	ARG
4	P	96	GLN
4	P	161	SER
4	P	169	LEU
4	P	196	VAL
4	P	197	TYR
4	P	208	TYR
4	P	215	ASN
4	P	217	ASP
5	Q	28	ASN
5	Q	43	ASN
5	Q	49	TYR
5	Q	50	GLU
5	Q	57	LEU
5	Q	98	ASP

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Mol	Chain	Res	Type
5	Q	100	LEU
5	Q	104	LEU
5	Q	109	SER
5	Q	129	SER
5	R	28	ASN
5	R	49	TYR
5	R	52	VAL
5	R	99	LYS
5	R	107	LEU
5	R	114	LEU
5	R	117	VAL
5	R	121	LEU
5	R	125	ARG
5	S	12	SER
5	S	15	LEU
5	S	28	ASN
5	S	43	ASN
5	S	49	TYR
5	S	100	LEU
5	S	103	LEU
5	S	110	LEU
5	T	28	ASN
5	T	52	VAL
5	T	99	LYS
5	T	100	LEU
5	T	132	LYS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (358) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	8	GLN
1	A	13	HIS
1	A	61	GLN
1	A	166	HIS
1	A	184	GLN
1	A	204	GLN
1	A	246	GLN
1	A	264	GLN
1	A	331	ASN
1	A	339	ASN
1	A	355	ASN
1	A	370	GLN

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Mol	Chain	Res	Type
1	A	403	HIS
1	A	464	ASN
1	A	470	ASN
1	A	539	ASN
1	A	570	ASN
1	A	623	HIS
1	A	658	ASN
1	A	670	ASN
1	A	772	ASN
1	A	774	ASN
1	A	798	GLN
1	A	820	HIS
1	A	890	ASN
1	A	928	HIS
1	B	13	HIS
1	B	61	GLN
1	B	166	HIS
1	B	184	GLN
1	B	246	GLN
1	B	264	GLN
1	B	331	ASN
1	B	339	ASN
1	B	355	ASN
1	B	370	GLN
1	B	403	HIS
1	B	464	ASN
1	B	470	ASN
1	B	539	ASN
1	B	570	ASN
1	B	623	HIS
1	B	658	ASN
1	B	670	ASN
1	B	772	ASN
1	B	774	ASN
1	B	798	GLN
1	B	820	HIS
1	B	889	GLN
1	B	890	ASN
1	B	928	HIS
1	C	13	HIS
1	C	61	GLN
1	C	90	ASN

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Mol	Chain	Res	Type
1	C	166	HIS
1	C	184	GLN
1	C	204	GLN
1	C	246	GLN
1	C	264	GLN
1	C	331	ASN
1	C	339	ASN
1	C	355	ASN
1	C	370	GLN
1	C	403	HIS
1	C	464	ASN
1	C	470	ASN
1	C	539	ASN
1	C	570	ASN
1	C	658	ASN
1	C	740	ASN
1	C	772	ASN
1	C	774	ASN
1	C	798	GLN
1	C	820	HIS
1	C	890	ASN
1	C	948	ASN
1	D	8	GLN
1	D	13	HIS
1	D	61	GLN
1	D	166	HIS
1	D	184	GLN
1	D	204	GLN
1	D	246	GLN
1	D	264	GLN
1	D	331	ASN
1	D	339	ASN
1	D	355	ASN
1	D	370	GLN
1	D	403	HIS
1	D	464	ASN
1	D	470	ASN
1	D	539	ASN
1	D	570	ASN
1	D	623	HIS
1	D	638	ASN
1	D	658	ASN

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Mol	Chain	Res	Type
1	D	670	ASN
1	D	772	ASN
1	D	774	ASN
1	D	798	GLN
1	D	820	HIS
1	D	890	ASN
1	D	928	HIS
1	E	13	HIS
1	E	61	GLN
1	E	166	HIS
1	E	184	GLN
1	E	204	GLN
1	E	246	GLN
1	E	264	GLN
1	E	331	ASN
1	E	339	ASN
1	E	343	ASN
1	E	353	GLN
1	E	355	ASN
1	E	370	GLN
1	E	403	HIS
1	E	464	ASN
1	E	470	ASN
1	E	539	ASN
1	E	558	HIS
1	E	570	ASN
1	E	623	HIS
1	E	638	ASN
1	E	658	ASN
1	E	670	ASN
1	E	772	ASN
1	E	774	ASN
1	E	798	GLN
1	E	820	HIS
1	E	890	ASN
1	E	928	HIS
1	F	13	HIS
1	F	61	GLN
1	F	90	ASN
1	F	166	HIS
1	F	184	GLN
1	F	204	GLN

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Mol	Chain	Res	Type
1	F	246	GLN
1	F	264	GLN
1	F	331	ASN
1	F	339	ASN
1	F	343	ASN
1	F	353	GLN
1	F	355	ASN
1	F	370	GLN
1	F	403	HIS
1	F	464	ASN
1	F	470	ASN
1	F	539	ASN
1	F	570	ASN
1	F	623	HIS
1	F	658	ASN
1	F	772	ASN
1	F	774	ASN
1	F	798	GLN
1	F	820	HIS
1	F	890	ASN
1	F	948	ASN
1	G	13	HIS
1	G	61	GLN
1	G	184	GLN
1	G	204	GLN
1	G	246	GLN
1	G	264	GLN
1	G	331	ASN
1	G	339	ASN
1	G	343	ASN
1	G	350	GLN
1	G	353	GLN
1	G	355	ASN
1	G	370	GLN
1	G	403	HIS
1	G	464	ASN
1	G	470	ASN
1	G	539	ASN
1	G	570	ASN
1	G	623	HIS
1	G	658	ASN
1	G	661	ASN

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Mol	Chain	Res	Type
1	G	670	ASN
1	G	740	ASN
1	G	772	ASN
1	G	774	ASN
1	G	798	GLN
1	G	820	HIS
1	G	890	ASN
1	G	898	HIS
1	G	928	HIS
1	G	948	ASN
1	H	13	HIS
1	H	61	GLN
1	H	166	HIS
1	H	184	GLN
1	H	204	GLN
1	H	246	GLN
1	H	264	GLN
1	H	331	ASN
1	H	339	ASN
1	H	355	ASN
1	H	370	GLN
1	H	403	HIS
1	H	464	ASN
1	H	470	ASN
1	H	539	ASN
1	H	570	ASN
1	H	589	ASN
1	H	623	HIS
1	H	658	ASN
1	H	670	ASN
1	H	772	ASN
1	H	774	ASN
1	H	798	GLN
1	H	820	HIS
1	H	890	ASN
1	H	928	HIS
1	I	13	HIS
1	I	61	GLN
1	I	166	HIS
1	I	184	GLN
1	I	204	GLN
1	I	246	GLN

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Mol	Chain	Res	Type
1	I	264	GLN
1	I	331	ASN
1	I	339	ASN
1	I	355	ASN
1	I	370	GLN
1	I	403	HIS
1	I	464	ASN
1	I	470	ASN
1	I	539	ASN
1	I	570	ASN
1	I	623	HIS
1	I	658	ASN
1	I	670	ASN
1	I	754	ASN
1	I	772	ASN
1	I	774	ASN
1	I	798	GLN
1	I	820	HIS
1	I	890	ASN
1	I	928	HIS
1	I	948	ASN
1	J	13	HIS
1	J	61	GLN
1	J	166	HIS
1	J	184	GLN
1	J	204	GLN
1	J	246	GLN
1	J	264	GLN
1	J	331	ASN
1	J	339	ASN
1	J	353	GLN
1	J	355	ASN
1	J	370	GLN
1	J	403	HIS
1	J	464	ASN
1	J	470	ASN
1	J	539	ASN
1	J	570	ASN
1	J	623	HIS
1	J	635	ASN
1	J	658	ASN
1	J	670	ASN

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Mol	Chain	Res	Type
1	J	772	ASN
1	J	774	ASN
1	J	798	GLN
1	J	820	HIS
1	J	822	HIS
1	J	890	ASN
1	J	928	HIS
1	K	13	HIS
1	K	17	GLN
1	K	61	GLN
1	K	166	HIS
1	K	184	GLN
1	K	204	GLN
1	K	246	GLN
1	K	264	GLN
1	K	331	ASN
1	K	339	ASN
1	K	343	ASN
1	K	355	ASN
1	K	370	GLN
1	K	403	HIS
1	K	464	ASN
1	K	470	ASN
1	K	539	ASN
1	K	570	ASN
1	K	623	HIS
1	K	658	ASN
1	K	670	ASN
1	K	772	ASN
1	K	774	ASN
1	K	798	GLN
1	K	820	HIS
1	K	890	ASN
1	K	928	HIS
1	L	13	HIS
1	L	61	GLN
1	L	166	HIS
1	L	184	GLN
1	L	204	GLN
1	L	246	GLN
1	L	264	GLN
1	L	331	ASN

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Mol	Chain	Res	Type
1	L	339	ASN
1	L	355	ASN
1	L	370	GLN
1	L	403	HIS
1	L	464	ASN
1	L	470	ASN
1	L	539	ASN
1	L	570	ASN
1	L	623	HIS
1	L	658	ASN
1	L	670	ASN
1	L	772	ASN
1	L	774	ASN
1	L	798	GLN
1	L	820	HIS
1	L	889	GLN
1	L	890	ASN
1	L	928	HIS
2	M	109	GLN
2	M	130	ASN
2	M	133	ASN
2	M	237	HIS
2	M	456	GLN
2	M	497	ASN
2	M	503	GLN
3	N	41	ASN
3	N	47	GLN
3	N	194	GLN
3	N	200	ASN
3	N	298	ASN
4	O	25	GLN
4	O	32	ASN
4	O	58	GLN
4	O	68	ASN
4	O	207	HIS
4	O	211	GLN
4	O	215	ASN
4	P	16	GLN
4	P	25	GLN
4	P	58	GLN
4	P	68	ASN
5	Q	115	ASN

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Mol	Chain	Res	Type
5	Q	126	GLN
5	Q	127	GLN
5	R	106	GLN
5	S	28	ASN
5	S	120	GLN
5	S	126	GLN
5	T	43	ASN
5	T	120	GLN
5	T	126	GLN
5	T	127	GLN

### 5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

### 5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

### 5.6 Ligand geometry ⓘ

There are no ligands in this entry.

### 5.7 Other polymers ⓘ

There are no such residues in this entry.

### 5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.