Full wwPDB EM Validation Report ⓘ

Feb 13, 2024 – 03:45 PM EST

PDB ID	:	3IKU
EMDB ID	:	EMD-5128
Title	:	Structural model of ParM filament in closed state from cryo-EM
Authors	:	Galkin, V.E.; Orlova, A.; Rivera, C.; Mullins, R.D.; Egelman, E.H.
Deposited on	:	2009-08-06
Resolution	:	18.00 Å(reported)

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

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

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

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

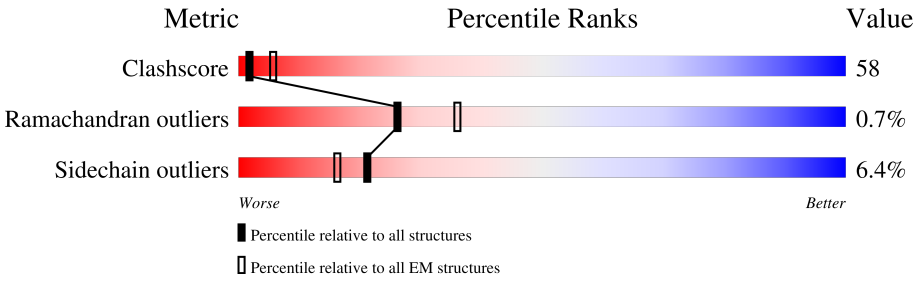
EMDB validation analysis	:	0.0.1.dev70
MolProbity	:	4.02b-467
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ	:	FAILED
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36

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 18.00 Å.

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



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

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

Mol	Chain	Length	Quality of chain
1	A	320	56% 39%
1	B	320	56% 40%
1	C	320	53% 43%
1	D	320	52% 43%
1	E	320	53% 42%
1	F	320	53% 43%
1	G	320	52% 43%
1	H	320	53% 42%
1	I	320	52% 44%

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Mol	Chain	Length	Quality of chain
1	J	320	53% 43%
1	K	320	57% 39%
1	L	320	58% 38%

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 29880 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 Plasmid segregation protein parM.

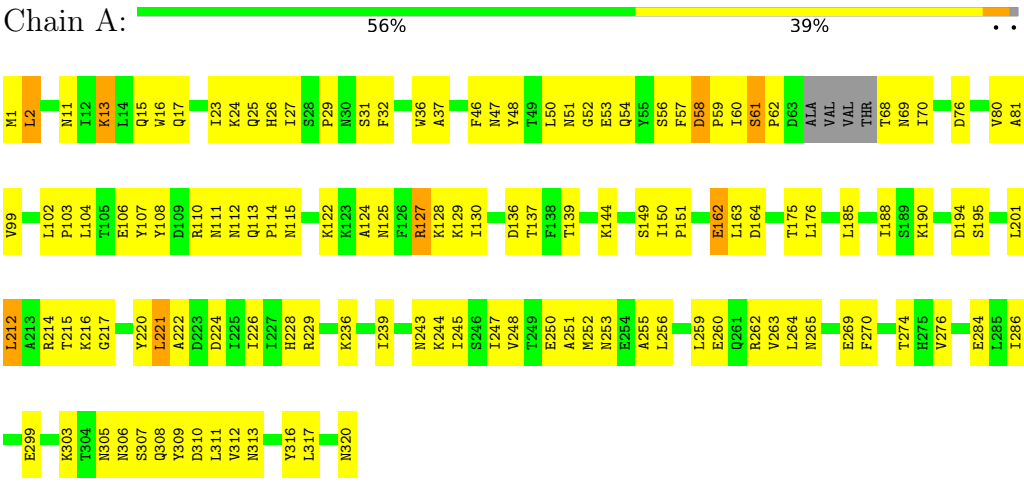
Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	316	Total	C	N	O	S	0	0
			2490	1569	421	492	8		
1	B	316	Total	C	N	O	S	0	0
			2490	1569	421	492	8		
1	C	316	Total	C	N	O	S	0	0
			2490	1569	421	492	8		
1	D	316	Total	C	N	O	S	0	0
			2490	1569	421	492	8		
1	E	316	Total	C	N	O	S	0	0
			2490	1569	421	492	8		
1	F	316	Total	C	N	O	S	0	0
			2490	1569	421	492	8		
1	G	316	Total	C	N	O	S	0	0
			2490	1569	421	492	8		
1	H	316	Total	C	N	O	S	0	0
			2490	1569	421	492	8		
1	I	316	Total	C	N	O	S	0	0
			2490	1569	421	492	8		
1	J	316	Total	C	N	O	S	0	0
			2490	1569	421	492	8		
1	K	316	Total	C	N	O	S	0	0
			2490	1569	421	492	8		
1	L	316	Total	C	N	O	S	0	0
			2490	1569	421	492	8		

3 Residue-property plots (i)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. 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.

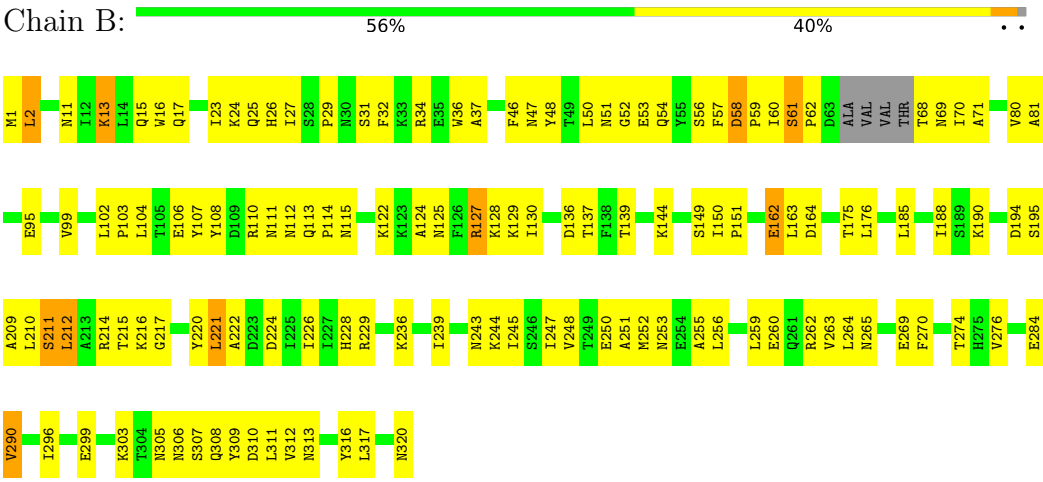
• Molecule 1: Plasmid segregation protein parM

Chain A:



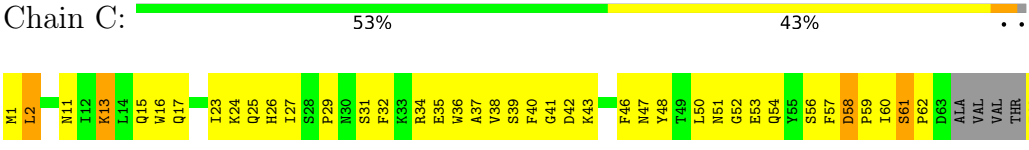
• Molecule 1: Plasmid segregation protein parM

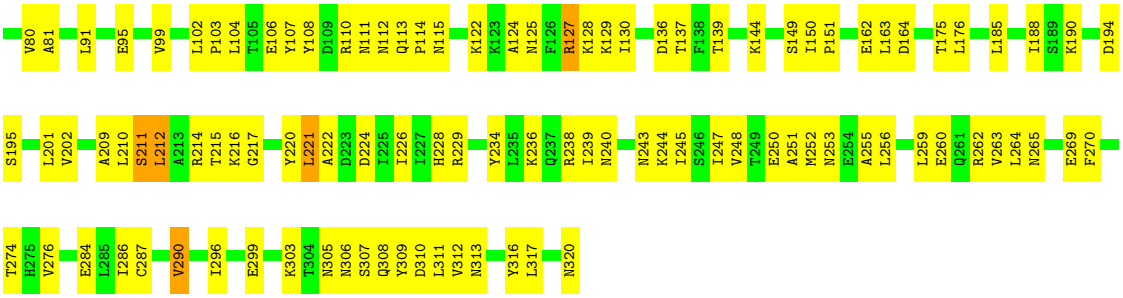
Chain B:



• Molecule 1: Plasmid segregation protein parM

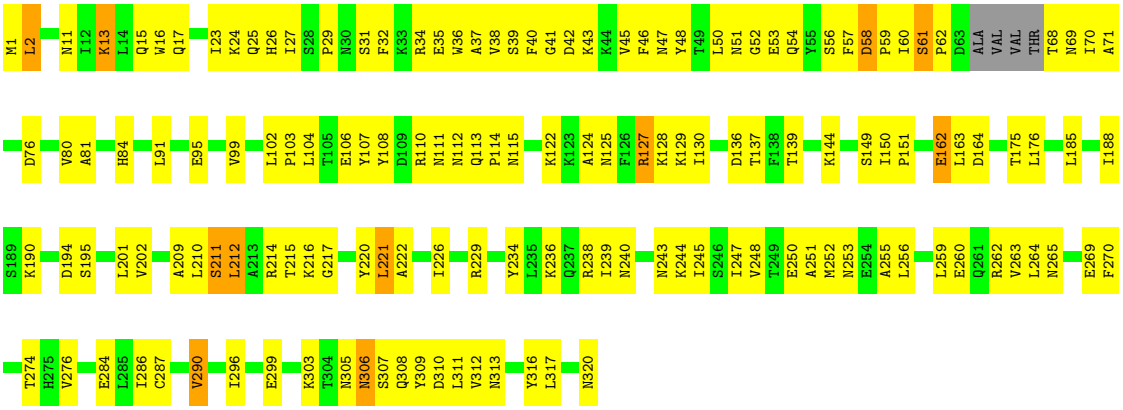
Chain C:





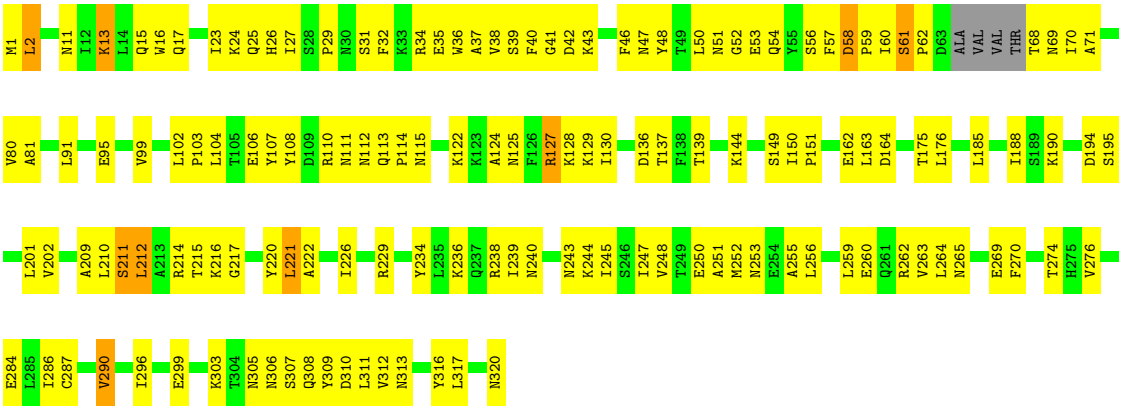
• Molecule 1: Plasmid segregation protein parM

Chain D:



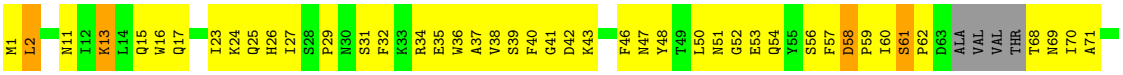
• Molecule 1: Plasmid segregation protein parM

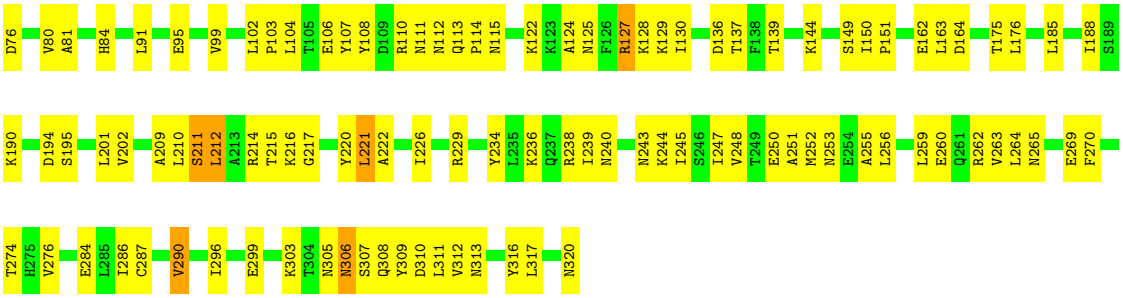
Chain E:



• Molecule 1: Plasmid segregation protein parM

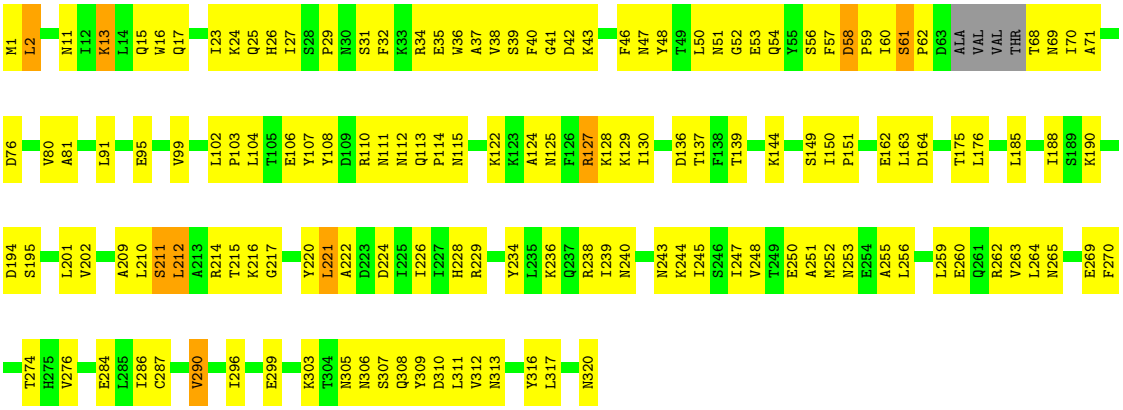
Chain F:





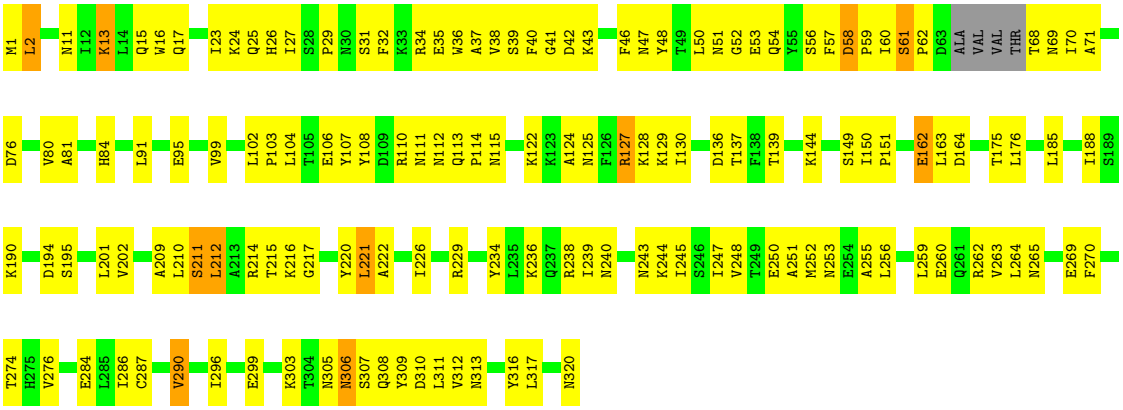
• Molecule 1: Plasmid segregation protein parM

Chain G:



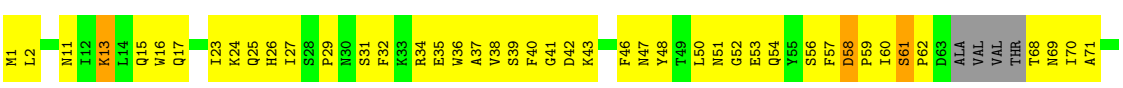
• Molecule 1: Plasmid segregation protein parM

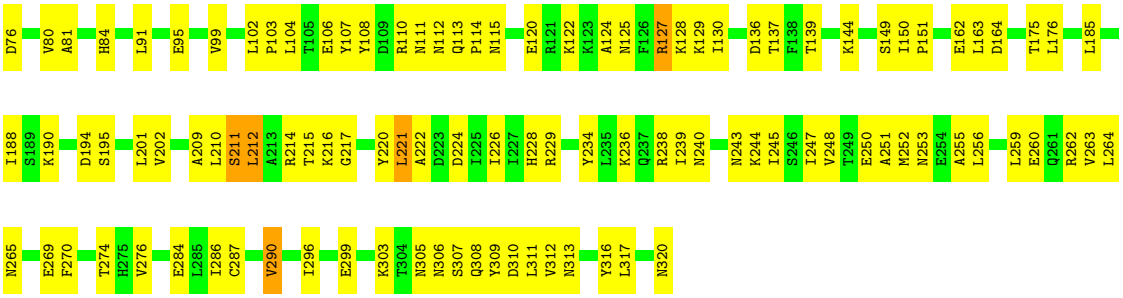
Chain H:



• Molecule 1: Plasmid segregation protein parM

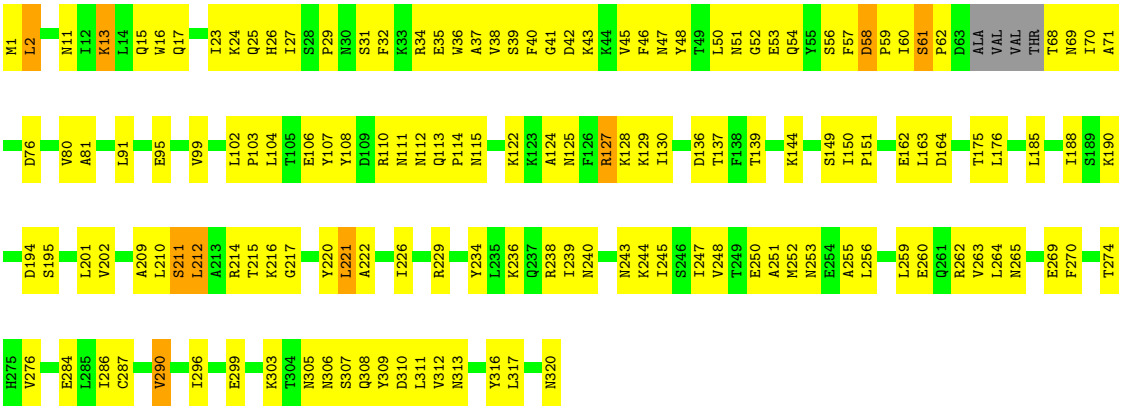
Chain I:





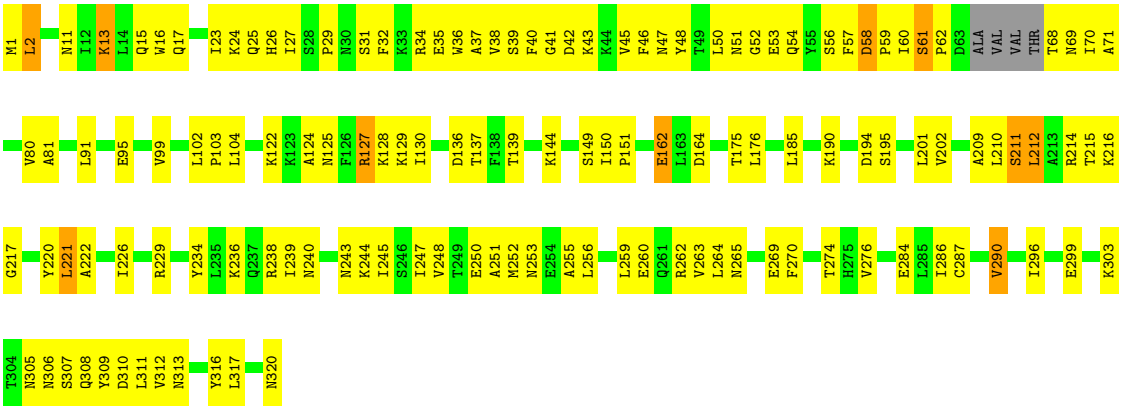
• Molecule 1: Plasmid segregation protein parM

Chain J:



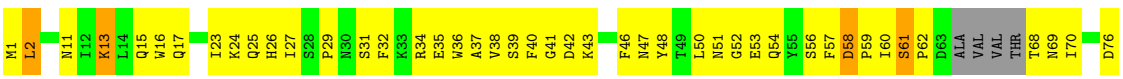
• Molecule 1: Plasmid segregation protein parM

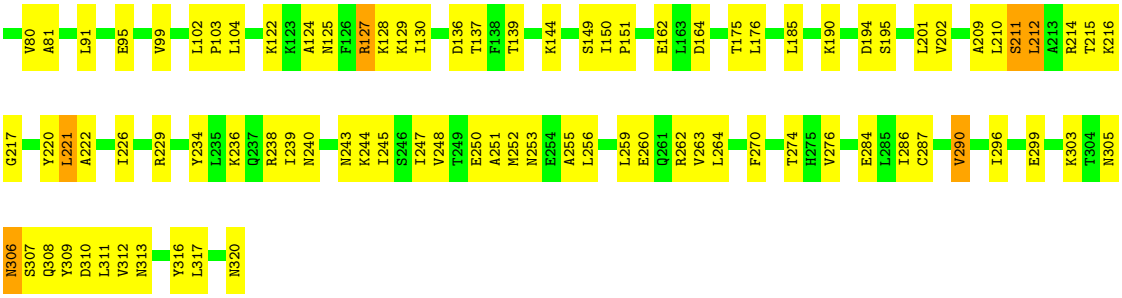
Chain K:



• Molecule 1: Plasmid segregation protein parM

Chain L:




V80
A81
L91
E95
V99
L102
P103
L104
K122
K123
A124
N125
F126
R127
K128
K129
I130
D136
T137
F138
T139
K144
S149
I150
P151
E162
L163
D164
T175
L176
L185
K190
D194
S195
L201
V202
A209
L210
S211
L212
A213
R214
T215
K216
G217
Y220
L221
A222
I226
R229
Y234
L235
K236
Q237
R238
I239
N240
N243
K244
I245
S246
I247
V248
T249
E250
A251
M252
N253
E254
A255
L256
L259
E260
Q261
R262
V263
L264
F270
T274
H275
V276
E284
L285
I286
C287
V290
I296
E299
K303
T304
N305
N306
S307
Q308
Y309
D310
L311
V312
N313
Y316
L317
N320

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	HELICAL	Depositor
Imposed symmetry	HELICAL, twist=Not provided°, rise=Not provided Å, axial sym=Not provided	Depositor
Number of segments used	Not provided	
Resolution determination method	Not provided	
CTF correction method	The micrographs were multiplied by the CTF to correct phases	Depositor
Microscope	FEI TECNAI F20	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/Å^2$)	Not provided	
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	Not provided	

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|>5$	RMSZ	#$\|Z\|>5$
1	A	0.40	0/2527	0.67	0/3413
1	B	0.40	0/2527	0.67	0/3413
1	C	0.40	0/2527	0.67	0/3413
1	D	0.40	0/2527	0.67	0/3413
1	E	0.40	0/2527	0.67	0/3413
1	F	0.40	0/2527	0.67	0/3413
1	G	0.40	0/2527	0.67	0/3413
1	H	0.40	0/2527	0.67	0/3413
1	I	0.40	0/2527	0.67	0/3413
1	J	0.40	0/2527	0.67	0/3413
1	K	0.40	0/2527	0.67	0/3413
1	L	0.40	0/2527	0.67	0/3413
All	All	0.40	0/30324	0.67	0/40956

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2490	0	2467	304	0
1	B	2490	0	2466	315	0
1	C	2490	0	2464	411	0
1	D	2490	0	2464	412	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	E	2490	0	2464	407	0
1	F	2490	0	2464	408	0
1	G	2490	0	2464	412	0
1	H	2490	0	2464	416	0
1	I	2490	0	2464	413	0
1	J	2490	0	2464	412	0
1	K	2490	0	2468	314	0
1	L	2490	0	2468	299	0
All	All	29880	0	29581	3422	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 58.

All (3422) 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:G:112:ASN:HB3	1:I:43:LYS:CE	1.24	1.66
1:A:112:ASN:HB3	1:C:43:LYS:CE	1.24	1.65
1:E:112:ASN:HB3	1:G:43:LYS:CE	1.24	1.65
1:F:112:ASN:HB3	1:H:43:LYS:CE	1.24	1.61
1:H:112:ASN:HB3	1:J:43:LYS:CE	1.24	1.59
1:D:112:ASN:HB3	1:F:43:LYS:CE	1.24	1.58
1:C:112:ASN:HB3	1:E:43:LYS:CE	1.24	1.57
1:I:112:ASN:HB3	1:K:43:LYS:CE	1.24	1.57
1:B:112:ASN:HB3	1:D:43:LYS:CE	1.24	1.57
1:J:112:ASN:HB3	1:L:43:LYS:CE	1.24	1.56
1:I:59:PRO:C	1:I:217:GLY:HA2	1.27	1.55
1:H:59:PRO:C	1:H:217:GLY:HA2	1.27	1.55
1:B:59:PRO:C	1:B:217:GLY:HA2	1.27	1.54
1:A:59:PRO:C	1:A:217:GLY:HA2	1.27	1.53
1:C:59:PRO:C	1:C:217:GLY:HA2	1.27	1.52
1:J:59:PRO:C	1:J:217:GLY:HA2	1.27	1.52
1:H:15:GLN:NE2	1:H:316:TYR:HB3	1.25	1.51
1:H:274:THR:HG22	1:J:240:ASN:ND2	1.22	1.51
1:I:274:THR:HG22	1:K:240:ASN:ND2	1.22	1.51
1:A:15:GLN:NE2	1:A:316:TYR:HB3	1.25	1.51
1:K:59:PRO:C	1:K:217:GLY:HA2	1.27	1.51
1:B:274:THR:HG22	1:D:240:ASN:ND2	1.22	1.51
1:G:59:PRO:C	1:G:217:GLY:HA2	1.27	1.50
1:D:59:PRO:C	1:D:217:GLY:HA2	1.26	1.50
1:J:274:THR:HG22	1:L:240:ASN:ND2	1.22	1.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:59:PRO:C	1:F:217:GLY:HA2	1.27	1.49
1:G:15:GLN:NE2	1:G:316:TYR:HB3	1.25	1.49
1:D:274:THR:HG22	1:F:240:ASN:ND2	1.22	1.49
1:C:15:GLN:NE2	1:C:316:TYR:HB3	1.25	1.48
1:J:15:GLN:NE2	1:J:316:TYR:HB3	1.25	1.48
1:C:274:THR:HG22	1:E:240:ASN:ND2	1.22	1.47
1:L:59:PRO:C	1:L:217:GLY:HA2	1.27	1.47
1:B:15:GLN:NE2	1:B:316:TYR:HB3	1.25	1.47
1:E:59:PRO:C	1:E:217:GLY:HA2	1.27	1.47
1:I:15:GLN:NE2	1:I:316:TYR:HB3	1.25	1.46
1:A:274:THR:HG22	1:C:240:ASN:ND2	1.22	1.46
1:E:274:THR:HG22	1:G:240:ASN:ND2	1.22	1.44
1:D:15:GLN:NE2	1:D:316:TYR:HB3	1.25	1.44
1:F:15:GLN:NE2	1:F:316:TYR:HB3	1.25	1.44
1:E:15:GLN:NE2	1:E:316:TYR:HB3	1.25	1.44
1:G:274:THR:HG22	1:I:240:ASN:ND2	1.22	1.44
1:L:15:GLN:NE2	1:L:316:TYR:HB3	1.25	1.44
1:F:274:THR:HG22	1:H:240:ASN:ND2	1.22	1.43
1:D:60:ILE:CG1	1:D:216:LYS:HB3	1.49	1.42
1:F:60:ILE:CG1	1:F:216:LYS:HB3	1.49	1.42
1:B:60:ILE:CG1	1:B:216:LYS:HB3	1.49	1.41
1:H:60:ILE:CG1	1:H:216:LYS:HB3	1.49	1.40
1:L:60:ILE:CG1	1:L:216:LYS:HB3	1.49	1.40
1:K:15:GLN:NE2	1:K:316:TYR:HB3	1.25	1.40
1:K:60:ILE:CG1	1:K:216:LYS:HB3	1.49	1.40
1:A:60:ILE:CG1	1:A:216:LYS:HB3	1.49	1.40
1:C:60:ILE:CG1	1:C:216:LYS:HB3	1.49	1.40
1:E:60:ILE:CG1	1:E:216:LYS:HB3	1.49	1.40
1:G:60:ILE:CG1	1:G:216:LYS:HB3	1.49	1.40
1:J:60:ILE:CG1	1:J:216:LYS:HB3	1.49	1.40
1:I:60:ILE:CG1	1:I:216:LYS:HB3	1.49	1.39
1:A:112:ASN:CG	1:C:43:LYS:NZ	1.76	1.38
1:B:112:ASN:CG	1:D:43:LYS:NZ	1.76	1.37
1:D:112:ASN:CG	1:F:43:LYS:NZ	1.76	1.37
1:I:60:ILE:HG13	1:I:216:LYS:CB	1.54	1.37
1:C:60:ILE:HG13	1:C:216:LYS:CB	1.54	1.36
1:D:60:ILE:HG13	1:D:216:LYS:CB	1.54	1.36
1:F:112:ASN:CG	1:H:43:LYS:NZ	1.76	1.36
1:C:112:ASN:CG	1:E:43:LYS:NZ	1.76	1.36
1:H:112:ASN:CG	1:J:43:LYS:NZ	1.76	1.36
1:A:60:ILE:HG13	1:A:216:LYS:CB	1.54	1.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:60:ILE:HG13	1:B:216:LYS:CB	1.54	1.36
1:H:60:ILE:HG13	1:H:216:LYS:CB	1.54	1.36
1:K:60:ILE:HG13	1:K:216:LYS:CB	1.54	1.36
1:L:60:ILE:HG13	1:L:216:LYS:CB	1.54	1.36
1:J:112:ASN:CG	1:L:43:LYS:NZ	1.76	1.35
1:E:60:ILE:HG13	1:E:216:LYS:CB	1.54	1.35
1:J:60:ILE:HG13	1:J:216:LYS:CB	1.54	1.35
1:G:59:PRO:O	1:G:217:GLY:CA	1.74	1.35
1:E:59:PRO:O	1:E:217:GLY:CA	1.74	1.35
1:E:112:ASN:CG	1:G:43:LYS:NZ	1.76	1.35
1:F:60:ILE:HG13	1:F:216:LYS:CB	1.54	1.35
1:F:59:PRO:O	1:F:217:GLY:CA	1.74	1.34
1:B:59:PRO:O	1:B:217:GLY:CA	1.74	1.34
1:I:59:PRO:O	1:I:217:GLY:CA	1.74	1.34
1:F:112:ASN:CB	1:H:43:LYS:CE	1.89	1.34
1:G:112:ASN:CG	1:I:43:LYS:NZ	1.76	1.34
1:I:112:ASN:CG	1:K:43:LYS:NZ	1.76	1.34
1:K:59:PRO:O	1:K:217:GLY:HA2	1.21	1.34
1:H:59:PRO:O	1:H:217:GLY:CA	1.74	1.33
1:I:112:ASN:CB	1:K:43:LYS:CE	1.89	1.33
1:C:59:PRO:O	1:C:217:GLY:CA	1.74	1.33
1:G:60:ILE:HG13	1:G:216:LYS:CB	1.54	1.33
1:D:59:PRO:O	1:D:217:GLY:CA	1.74	1.33
1:C:113:GLN:HG3	1:E:37:ALA:O	1.28	1.33
1:F:113:GLN:HG3	1:H:37:ALA:O	1.28	1.33
1:B:59:PRO:O	1:B:217:GLY:HA2	1.20	1.32
1:A:59:PRO:O	1:A:217:GLY:CA	1.74	1.32
1:J:59:PRO:O	1:J:217:GLY:CA	1.74	1.32
1:K:59:PRO:O	1:K:217:GLY:CA	1.74	1.32
1:J:113:GLN:HG3	1:L:37:ALA:O	1.28	1.31
1:L:59:PRO:O	1:L:217:GLY:CA	1.74	1.31
1:J:112:ASN:CB	1:L:43:LYS:CE	1.89	1.31
1:J:15:GLN:OE1	1:J:313:ASN:HA	1.17	1.30
1:F:59:PRO:O	1:F:217:GLY:HA2	1.20	1.30
1:L:15:GLN:OE1	1:L:313:ASN:HA	1.17	1.30
1:I:113:GLN:HG3	1:K:37:ALA:O	1.28	1.30
1:B:113:GLN:HG3	1:D:37:ALA:O	1.28	1.30
1:D:62:PRO:HD2	1:D:215:THR:N	1.18	1.30
1:A:59:PRO:O	1:A:217:GLY:HA2	1.20	1.30
1:C:112:ASN:CB	1:E:43:LYS:CE	1.89	1.29
1:D:112:ASN:CB	1:F:43:LYS:CE	1.89	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:15:GLN:OE1	1:H:313:ASN:HA	1.17	1.29
1:D:113:GLN:HG3	1:F:37:ALA:O	1.28	1.29
1:C:59:PRO:O	1:C:217:GLY:HA2	1.20	1.29
1:G:59:PRO:O	1:G:217:GLY:HA2	1.21	1.29
1:G:113:GLN:HG3	1:I:37:ALA:O	1.28	1.28
1:E:113:GLN:HG3	1:G:37:ALA:O	1.28	1.28
1:B:62:PRO:HD2	1:B:215:THR:N	1.18	1.27
1:D:59:PRO:O	1:D:217:GLY:HA2	1.20	1.27
1:F:15:GLN:OE1	1:F:313:ASN:HA	1.17	1.27
1:K:15:GLN:OE1	1:K:313:ASN:HA	1.17	1.27
1:L:15:GLN:NE2	1:L:316:TYR:CB	1.97	1.27
1:I:59:PRO:O	1:I:217:GLY:HA2	1.20	1.27
1:J:15:GLN:NE2	1:J:316:TYR:CB	1.97	1.27
1:E:15:GLN:OE1	1:E:313:ASN:HA	1.17	1.26
1:G:15:GLN:OE1	1:G:313:ASN:HA	1.17	1.26
1:A:113:GLN:HG3	1:C:37:ALA:O	1.28	1.26
1:E:59:PRO:O	1:E:217:GLY:HA2	1.21	1.26
1:E:15:GLN:NE2	1:E:316:TYR:CB	1.97	1.26
1:E:106:GLU:O	1:G:40:PHE:CE2	1.89	1.26
1:H:113:GLN:HG3	1:J:37:ALA:O	1.28	1.26
1:C:15:GLN:NE2	1:C:316:TYR:CB	1.97	1.26
1:G:15:GLN:NE2	1:G:316:TYR:CB	1.97	1.26
1:H:15:GLN:NE2	1:H:316:TYR:CB	1.98	1.26
1:A:15:GLN:OE1	1:A:313:ASN:HA	1.17	1.26
1:F:269:GLU:OE2	1:G:68:THR:OG1	1.55	1.25
1:G:106:GLU:O	1:I:40:PHE:CE2	1.89	1.25
1:J:59:PRO:O	1:J:217:GLY:HA2	1.20	1.25
1:A:15:GLN:NE2	1:A:316:TYR:CB	1.98	1.25
1:B:274:THR:CG2	1:D:240:ASN:HD21	1.48	1.25
1:C:274:THR:CG2	1:E:240:ASN:HD21	1.48	1.25
1:D:15:GLN:OE1	1:D:313:ASN:HA	1.17	1.25
1:D:274:THR:CG2	1:F:240:ASN:HD21	1.48	1.25
1:E:274:THR:CG2	1:G:240:ASN:HD21	1.48	1.25
1:G:112:ASN:CB	1:I:43:LYS:CE	1.89	1.25
1:I:15:GLN:NE2	1:I:316:TYR:CB	1.98	1.25
1:A:106:GLU:O	1:C:40:PHE:CE2	1.89	1.25
1:A:274:THR:CG2	1:C:240:ASN:HD21	1.48	1.25
1:C:269:GLU:OE2	1:D:68:THR:OG1	1.55	1.25
1:H:59:PRO:O	1:H:217:GLY:HA2	1.21	1.25
1:J:269:GLU:OE2	1:K:68:THR:OG1	1.55	1.25
1:I:62:PRO:CD	1:I:215:THR:N	1.99	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:106:GLU:O	1:K:40:PHE:CE2	1.89	1.25
1:K:15:GLN:NE2	1:K:316:TYR:CB	1.97	1.25
1:A:269:GLU:OE2	1:B:68:THR:OG1	1.55	1.25
1:D:62:PRO:CD	1:D:215:THR:N	1.99	1.25
1:F:15:GLN:NE2	1:F:316:TYR:CB	1.98	1.25
1:F:274:THR:CG2	1:H:240:ASN:HD21	1.48	1.25
1:C:62:PRO:CD	1:C:215:THR:N	1.99	1.25
1:D:106:GLU:O	1:F:40:PHE:CE2	1.89	1.25
1:E:269:GLU:OE2	1:F:68:THR:OG1	1.55	1.25
1:H:106:GLU:O	1:J:40:PHE:CE2	1.89	1.25
1:B:15:GLN:OE1	1:B:313:ASN:HA	1.17	1.24
1:B:106:GLU:O	1:D:40:PHE:CE2	1.89	1.24
1:G:274:THR:CG2	1:I:240:ASN:HD21	1.48	1.24
1:J:106:GLU:O	1:L:40:PHE:CE2	1.89	1.24
1:L:59:PRO:O	1:L:217:GLY:HA2	1.20	1.24
1:B:15:GLN:NE2	1:B:316:TYR:CB	1.97	1.24
1:C:15:GLN:OE1	1:C:313:ASN:HA	1.17	1.24
1:F:106:GLU:O	1:H:40:PHE:CE2	1.89	1.24
1:H:274:THR:CG2	1:J:240:ASN:HD21	1.48	1.24
1:I:15:GLN:OE1	1:I:313:ASN:HA	1.17	1.24
1:C:106:GLU:O	1:E:40:PHE:CE2	1.89	1.24
1:D:15:GLN:NE2	1:D:316:TYR:CB	1.97	1.24
1:B:269:GLU:OE2	1:C:68:THR:OG1	1.55	1.24
1:H:269:GLU:OE2	1:I:68:THR:OG1	1.55	1.24
1:D:269:GLU:OE2	1:E:68:THR:OG1	1.55	1.24
1:I:274:THR:CG2	1:K:240:ASN:HD21	1.48	1.24
1:B:112:ASN:CB	1:D:43:LYS:CE	1.89	1.23
1:G:269:GLU:OE2	1:H:68:THR:OG1	1.55	1.23
1:C:17:GLN:HB2	1:C:316:TYR:OH	1.39	1.23
1:H:112:ASN:CB	1:J:43:LYS:CE	1.89	1.23
1:J:274:THR:CG2	1:L:240:ASN:HD21	1.48	1.23
1:F:62:PRO:CD	1:F:215:THR:N	1.99	1.23
1:I:269:GLU:OE2	1:J:68:THR:OG1	1.55	1.23
1:K:62:PRO:CD	1:K:215:THR:N	1.99	1.23
1:J:17:GLN:HB2	1:J:316:TYR:OH	1.39	1.23
1:E:17:GLN:HB2	1:E:316:TYR:OH	1.39	1.22
1:D:26:HIS:O	1:D:309:TYR:HE2	1.23	1.22
1:E:62:PRO:CD	1:E:215:THR:N	1.99	1.22
1:K:269:GLU:OE2	1:L:68:THR:OG1	1.55	1.22
1:H:26:HIS:O	1:H:309:TYR:HE2	1.22	1.22
1:I:17:GLN:HB2	1:I:316:TYR:OH	1.39	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:62:PRO:CD	1:J:215:THR:N	1.99	1.21
1:K:17:GLN:HB2	1:K:316:TYR:OH	1.39	1.21
1:K:26:HIS:O	1:K:309:TYR:HE2	1.23	1.21
1:A:17:GLN:HB2	1:A:316:TYR:OH	1.39	1.21
1:H:62:PRO:CD	1:H:215:THR:N	1.99	1.21
1:H:17:GLN:HB2	1:H:316:TYR:OH	1.39	1.21
1:F:62:PRO:HD2	1:F:215:THR:N	1.18	1.21
1:J:26:HIS:O	1:J:309:TYR:HE2	1.23	1.21
1:C:62:PRO:HD2	1:C:215:THR:N	1.18	1.20
1:L:17:GLN:HB2	1:L:316:TYR:OH	1.39	1.20
1:I:26:HIS:O	1:I:309:TYR:HE2	1.22	1.20
1:A:112:ASN:CB	1:C:43:LYS:CE	1.89	1.20
1:D:17:GLN:HB2	1:D:316:TYR:OH	1.39	1.20
1:E:26:HIS:O	1:E:309:TYR:HE2	1.22	1.20
1:F:26:HIS:O	1:F:309:TYR:HE2	1.23	1.20
1:K:62:PRO:HD2	1:K:215:THR:N	1.18	1.20
1:L:62:PRO:HD2	1:L:215:THR:N	1.18	1.19
1:B:17:GLN:HB2	1:B:316:TYR:OH	1.39	1.19
1:E:112:ASN:CB	1:G:43:LYS:CE	1.89	1.19
1:B:26:HIS:O	1:B:309:TYR:HE2	1.23	1.19
1:G:17:GLN:HB2	1:G:316:TYR:OH	1.39	1.18
1:J:15:GLN:HE21	1:J:316:TYR:CB	1.54	1.18
1:L:15:GLN:HE21	1:L:316:TYR:CB	1.54	1.18
1:C:26:HIS:O	1:C:309:TYR:HE2	1.23	1.18
1:L:62:PRO:CD	1:L:215:THR:N	1.99	1.18
1:H:15:GLN:HE21	1:H:316:TYR:CB	1.54	1.18
1:I:59:PRO:C	1:I:217:GLY:CA	2.12	1.18
1:G:62:PRO:CD	1:G:215:THR:N	1.99	1.18
1:A:26:HIS:O	1:A:309:TYR:HE2	1.23	1.17
1:E:62:PRO:HD2	1:E:215:THR:N	1.18	1.17
1:F:15:GLN:HE21	1:F:316:TYR:CB	1.54	1.17
1:L:26:HIS:O	1:L:309:TYR:HE2	1.23	1.17
1:C:111:ASN:N	1:E:38:VAL:H	1.43	1.17
1:E:111:ASN:N	1:G:38:VAL:H	1.43	1.17
1:F:17:GLN:HB2	1:F:316:TYR:OH	1.39	1.17
1:G:59:PRO:C	1:G:217:GLY:CA	2.12	1.17
1:G:111:ASN:N	1:I:38:VAL:H	1.43	1.17
1:I:111:ASN:N	1:K:38:VAL:H	1.43	1.17
1:G:26:HIS:O	1:G:309:TYR:HE2	1.23	1.17
1:A:15:GLN:HE21	1:A:316:TYR:CB	1.54	1.17
1:A:111:ASN:N	1:C:38:VAL:H	1.43	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:62:PRO:CD	1:B:215:THR:N	1.99	1.17
1:G:15:GLN:HG2	1:G:316:TYR:CG	1.80	1.17
1:I:62:PRO:HD2	1:I:215:THR:N	1.18	1.17
1:D:15:GLN:HE21	1:D:316:TYR:CB	1.54	1.17
1:D:23:ILE:CG2	1:D:316:TYR:CE2	2.28	1.17
1:E:59:PRO:C	1:E:217:GLY:CA	2.12	1.17
1:A:23:ILE:HG23	1:A:316:TYR:CE2	1.81	1.16
1:C:15:GLN:HG2	1:C:316:TYR:CG	1.80	1.16
1:C:23:ILE:HG23	1:C:316:TYR:CE2	1.81	1.16
1:E:23:ILE:HG23	1:E:316:TYR:CE2	1.81	1.16
1:F:23:ILE:CG2	1:F:316:TYR:CE2	2.28	1.16
1:K:15:GLN:HG2	1:K:316:TYR:CG	1.80	1.16
1:C:59:PRO:C	1:C:217:GLY:CA	2.12	1.16
1:G:23:ILE:HG23	1:G:316:TYR:CE2	1.81	1.16
1:H:15:GLN:HG2	1:H:316:TYR:CG	1.80	1.16
1:H:23:ILE:CG2	1:H:316:TYR:CE2	2.29	1.16
1:I:23:ILE:CG2	1:I:316:TYR:CE2	2.28	1.16
1:A:59:PRO:C	1:A:217:GLY:CA	2.12	1.16
1:B:15:GLN:HE21	1:B:316:TYR:CB	1.54	1.16
1:I:23:ILE:HG23	1:I:316:TYR:CE2	1.81	1.16
1:C:15:GLN:HE21	1:C:316:TYR:CB	1.54	1.16
1:E:15:GLN:HE21	1:E:316:TYR:CB	1.54	1.16
1:G:15:GLN:HE21	1:G:316:TYR:CB	1.54	1.16
1:G:23:ILE:CG2	1:G:316:TYR:CE2	2.28	1.16
1:J:23:ILE:CG2	1:J:316:TYR:CE2	2.29	1.16
1:J:62:PRO:HD2	1:J:215:THR:N	1.18	1.16
1:K:23:ILE:HG23	1:K:316:TYR:CE2	1.81	1.16
1:B:15:GLN:HG2	1:B:316:TYR:CG	1.80	1.15
1:B:23:ILE:CG2	1:B:316:TYR:CE2	2.29	1.15
1:J:23:ILE:HG23	1:J:316:TYR:CE2	1.81	1.15
1:L:15:GLN:HG2	1:L:316:TYR:CG	1.80	1.15
1:L:23:ILE:HG23	1:L:316:TYR:CE2	1.81	1.15
1:A:15:GLN:HG2	1:A:316:TYR:CG	1.80	1.15
1:F:15:GLN:HG2	1:F:316:TYR:CG	1.80	1.15
1:I:15:GLN:HE21	1:I:316:TYR:CB	1.54	1.15
1:K:23:ILE:CG2	1:K:316:TYR:CE2	2.28	1.15
1:A:23:ILE:CG2	1:A:316:TYR:CE2	2.28	1.15
1:E:15:GLN:HG2	1:E:316:TYR:CG	1.80	1.15
1:H:23:ILE:HG23	1:H:316:TYR:CE2	1.81	1.15
1:L:23:ILE:CG2	1:L:316:TYR:CE2	2.29	1.15
1:B:111:ASN:N	1:D:38:VAL:H	1.43	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:15:GLN:HG2	1:J:316:TYR:CG	1.80	1.15
1:K:15:GLN:HE21	1:K:316:TYR:CB	1.54	1.15
1:G:62:PRO:HD2	1:G:215:THR:N	1.18	1.15
1:I:15:GLN:HG2	1:I:316:TYR:CG	1.80	1.15
1:J:111:ASN:N	1:L:38:VAL:H	1.43	1.15
1:C:23:ILE:CG2	1:C:316:TYR:CE2	2.29	1.14
1:D:111:ASN:N	1:F:38:VAL:H	1.43	1.14
1:E:23:ILE:CG2	1:E:316:TYR:CE2	2.29	1.14
1:L:59:PRO:C	1:L:217:GLY:CA	2.12	1.14
1:D:15:GLN:HG2	1:D:316:TYR:CG	1.80	1.14
1:D:113:GLN:CG	1:F:37:ALA:O	1.96	1.14
1:B:113:GLN:CG	1:D:37:ALA:O	1.96	1.14
1:F:111:ASN:N	1:H:38:VAL:H	1.43	1.14
1:I:113:GLN:CG	1:K:37:ALA:O	1.96	1.14
1:A:113:GLN:CG	1:C:37:ALA:O	1.96	1.14
1:H:111:ASN:N	1:J:38:VAL:H	1.43	1.14
1:B:23:ILE:HG23	1:B:316:TYR:CE2	1.81	1.13
1:G:113:GLN:CG	1:I:37:ALA:O	1.96	1.13
1:A:62:PRO:CD	1:A:215:THR:N	1.99	1.13
1:F:113:GLN:CG	1:H:37:ALA:O	1.96	1.13
1:C:113:GLN:CG	1:E:37:ALA:O	1.96	1.13
1:D:23:ILE:HG23	1:D:316:TYR:CE2	1.81	1.12
1:E:113:GLN:CG	1:G:37:ALA:O	1.96	1.12
1:F:23:ILE:HG23	1:F:316:TYR:CE2	1.81	1.12
1:H:113:GLN:CG	1:J:37:ALA:O	1.96	1.12
1:J:113:GLN:CG	1:L:37:ALA:O	1.96	1.12
1:F:59:PRO:C	1:F:217:GLY:CA	2.12	1.12
1:D:59:PRO:C	1:D:217:GLY:CA	2.12	1.11
1:H:59:PRO:C	1:H:217:GLY:CA	2.12	1.11
1:H:62:PRO:HD2	1:H:215:THR:N	1.18	1.11
1:A:112:ASN:CG	1:C:43:LYS:HZ1	1.43	1.11
1:J:107:TYR:CD2	1:L:40:PHE:HB3	1.85	1.11
1:A:62:PRO:HD2	1:A:215:THR:N	1.18	1.11
1:B:107:TYR:CD2	1:D:40:PHE:CB	2.34	1.11
1:C:107:TYR:CD2	1:E:40:PHE:CB	2.34	1.11
1:E:107:TYR:CD2	1:G:40:PHE:CB	2.34	1.11
1:K:59:PRO:C	1:K:217:GLY:CA	2.12	1.11
1:B:59:PRO:C	1:B:217:GLY:CA	2.12	1.11
1:F:107:TYR:CD2	1:H:40:PHE:CB	2.34	1.10
1:G:107:TYR:CD2	1:I:40:PHE:HB3	1.85	1.10
1:B:115:ASN:HB2	1:D:40:PHE:CE2	1.87	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:107:TYR:CD2	1:F:40:PHE:CB	2.34	1.10
1:D:115:ASN:HB2	1:F:40:PHE:CE2	1.87	1.10
1:F:115:ASN:HB2	1:H:40:PHE:CE2	1.87	1.10
1:G:107:TYR:CD2	1:I:40:PHE:CB	2.34	1.10
1:H:115:ASN:HB2	1:J:40:PHE:CE2	1.87	1.10
1:A:107:TYR:CD2	1:C:40:PHE:HB3	1.86	1.10
1:F:107:TYR:CD2	1:H:40:PHE:HB3	1.85	1.10
1:H:107:TYR:CD2	1:J:40:PHE:CB	2.34	1.10
1:I:107:TYR:CD2	1:K:40:PHE:HB3	1.85	1.10
1:J:115:ASN:HB2	1:L:40:PHE:CE2	1.87	1.10
1:C:107:TYR:CD2	1:E:40:PHE:HB3	1.85	1.10
1:J:59:PRO:C	1:J:217:GLY:CA	2.12	1.10
1:A:107:TYR:CD2	1:C:40:PHE:CB	2.34	1.10
1:B:262:ARG:HB2	1:C:34:ARG:NH2	1.67	1.10
1:D:107:TYR:CD2	1:F:40:PHE:HB3	1.85	1.10
1:H:107:TYR:CD2	1:J:40:PHE:HB3	1.86	1.10
1:I:107:TYR:CD2	1:K:40:PHE:CB	2.34	1.10
1:F:262:ARG:HB2	1:G:34:ARG:NH2	1.67	1.09
1:I:115:ASN:HB2	1:K:40:PHE:CE2	1.87	1.09
1:J:107:TYR:CD2	1:L:40:PHE:CB	2.34	1.09
1:G:112:ASN:CG	1:I:43:LYS:HZ1	1.44	1.09
1:I:262:ARG:HB2	1:J:34:ARG:NH2	1.67	1.09
1:A:115:ASN:HB2	1:C:40:PHE:CE2	1.87	1.09
1:G:115:ASN:HB2	1:I:40:PHE:CE2	1.87	1.09
1:H:262:ARG:HB2	1:I:34:ARG:NH2	1.67	1.09
1:B:107:TYR:CD2	1:D:40:PHE:HB3	1.85	1.09
1:C:262:ARG:HB2	1:D:34:ARG:NH2	1.67	1.09
1:D:262:ARG:HB2	1:E:34:ARG:NH2	1.67	1.08
1:E:262:ARG:HB2	1:F:34:ARG:NH2	1.67	1.08
1:C:115:ASN:HB2	1:E:40:PHE:CE2	1.87	1.08
1:E:107:TYR:CD2	1:G:40:PHE:HB3	1.85	1.08
1:J:262:ARG:HB2	1:K:34:ARG:NH2	1.67	1.08
1:A:262:ARG:HB2	1:B:34:ARG:NH2	1.67	1.08
1:K:262:ARG:HB2	1:L:34:ARG:NH2	1.67	1.08
1:E:115:ASN:HB2	1:G:40:PHE:CE2	1.87	1.08
1:E:112:ASN:CG	1:G:43:LYS:HZ1	1.45	1.07
1:F:26:HIS:O	1:F:309:TYR:CE2	2.07	1.07
1:K:26:HIS:O	1:K:309:TYR:CE2	2.07	1.07
1:D:26:HIS:O	1:D:309:TYR:CE2	2.07	1.07
1:A:25:GLN:OE1	1:A:313:ASN:HB2	1.55	1.07
1:C:112:ASN:CG	1:E:43:LYS:HZ1	1.45	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:262:ARG:HB2	1:H:34:ARG:NH2	1.67	1.07
1:H:112:ASN:CG	1:J:43:LYS:HZ1	1.43	1.07
1:C:25:GLN:OE1	1:C:313:ASN:HB2	1.55	1.07
1:E:15:GLN:NE2	1:E:316:TYR:CD2	2.23	1.07
1:H:25:GLN:OE1	1:H:313:ASN:HB2	1.55	1.07
1:I:112:ASN:CG	1:K:43:LYS:HZ1	1.45	1.07
1:J:25:GLN:OE1	1:J:313:ASN:HB2	1.55	1.07
1:J:112:ASN:CG	1:L:43:LYS:HZ1	1.43	1.07
1:K:25:GLN:OE1	1:K:313:ASN:HB2	1.55	1.07
1:L:25:GLN:OE1	1:L:313:ASN:HB2	1.55	1.07
1:H:26:HIS:O	1:H:309:TYR:CE2	2.07	1.06
1:I:15:GLN:NE2	1:I:316:TYR:CD2	2.23	1.06
1:I:25:GLN:OE1	1:I:313:ASN:HB2	1.55	1.06
1:I:26:HIS:O	1:I:309:TYR:CE2	2.07	1.06
1:A:26:HIS:O	1:A:309:TYR:CE2	2.07	1.06
1:F:25:GLN:OE1	1:F:313:ASN:HB2	1.55	1.06
1:L:26:HIS:O	1:L:309:TYR:CE2	2.08	1.06
1:A:15:GLN:NE2	1:A:316:TYR:CD2	2.23	1.06
1:B:26:HIS:O	1:B:309:TYR:CE2	2.07	1.06
1:C:26:HIS:O	1:C:309:TYR:CE2	2.07	1.06
1:B:25:GLN:OE1	1:B:313:ASN:HB2	1.55	1.06
1:J:26:HIS:O	1:J:309:TYR:CE2	2.07	1.06
1:E:25:GLN:OE1	1:E:313:ASN:HB2	1.55	1.05
1:E:26:HIS:O	1:E:309:TYR:CE2	2.07	1.05
1:B:262:ARG:HB2	1:C:34:ARG:HH22	1.19	1.05
1:L:15:GLN:NE2	1:L:316:TYR:CD2	2.23	1.05
1:D:262:ARG:HB2	1:E:34:ARG:HH22	1.19	1.05
1:F:15:GLN:NE2	1:F:316:TYR:CD2	2.23	1.05
1:G:25:GLN:OE1	1:G:313:ASN:HB2	1.55	1.05
1:H:15:GLN:NE2	1:H:316:TYR:CD2	2.23	1.05
1:D:25:GLN:OE1	1:D:313:ASN:HB2	1.55	1.05
1:G:15:GLN:NE2	1:G:316:TYR:CD2	2.23	1.05
1:G:26:HIS:O	1:G:309:TYR:CE2	2.08	1.05
1:K:15:GLN:NE2	1:K:316:TYR:CD2	2.23	1.05
1:C:15:GLN:NE2	1:C:316:TYR:CD2	2.23	1.05
1:B:15:GLN:NE2	1:B:316:TYR:CD2	2.23	1.04
1:B:112:ASN:CG	1:D:43:LYS:HZ1	1.45	1.04
1:D:15:GLN:NE2	1:D:316:TYR:CD2	2.23	1.04
1:F:262:ARG:HB2	1:G:34:ARG:HH22	1.19	1.04
1:J:15:GLN:NE2	1:J:316:TYR:CD2	2.23	1.04
1:D:15:GLN:OE1	1:D:313:ASN:CA	2.06	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:262:ARG:HB2	1:H:34:ARG:HH22	1.19	1.04
1:J:15:GLN:OE1	1:J:313:ASN:CA	2.06	1.04
1:H:15:GLN:OE1	1:H:313:ASN:CA	2.06	1.04
1:F:15:GLN:OE1	1:F:313:ASN:CA	2.06	1.03
1:I:15:GLN:OE1	1:I:313:ASN:CA	2.06	1.03
1:G:15:GLN:OE1	1:G:313:ASN:CA	2.06	1.03
1:G:114:PRO:CD	1:I:39:SER:OG	0.74	1.03
1:B:114:PRO:CD	1:D:39:SER:OG	0.74	1.03
1:D:112:ASN:CG	1:F:43:LYS:HZ1	1.45	1.03
1:E:114:PRO:CD	1:G:39:SER:OG	0.74	1.03
1:I:114:PRO:CD	1:K:39:SER:OG	0.74	1.03
1:I:262:ARG:HB2	1:J:34:ARG:HH22	1.19	1.03
1:A:15:GLN:OE1	1:A:313:ASN:CA	2.06	1.03
1:H:114:PRO:CD	1:J:39:SER:OG	0.74	1.03
1:K:15:GLN:OE1	1:K:313:ASN:CA	2.06	1.03
1:B:15:GLN:OE1	1:B:313:ASN:CA	2.06	1.02
1:H:262:ARG:HB2	1:I:34:ARG:HH22	1.19	1.02
1:L:15:GLN:OE1	1:L:313:ASN:CA	2.06	1.02
1:C:15:GLN:OE1	1:C:313:ASN:CA	2.06	1.02
1:C:114:PRO:CD	1:E:39:SER:OG	0.74	1.02
1:E:27:ILE:CD1	1:E:308:GLN:NE2	2.23	1.02
1:F:114:PRO:CD	1:H:39:SER:OG	0.74	1.02
1:C:27:ILE:CD1	1:C:308:GLN:CD	2.28	1.02
1:D:114:PRO:CD	1:F:39:SER:OG	0.74	1.02
1:E:15:GLN:OE1	1:E:313:ASN:CA	2.06	1.02
1:E:27:ILE:CD1	1:E:308:GLN:CD	2.28	1.02
1:F:15:GLN:HG2	1:F:316:TYR:CB	1.90	1.02
1:H:15:GLN:CD	1:H:313:ASN:HA	1.80	1.02
1:H:27:ILE:CD1	1:H:308:GLN:CD	2.28	1.02
1:I:27:ILE:CD1	1:I:308:GLN:CD	2.28	1.02
1:J:15:GLN:CD	1:J:313:ASN:HA	1.80	1.02
1:J:27:ILE:CD1	1:J:308:GLN:CD	2.28	1.02
1:A:15:GLN:HG2	1:A:316:TYR:CB	1.90	1.02
1:E:15:GLN:HG2	1:E:316:TYR:CB	1.90	1.02
1:F:15:GLN:CD	1:F:313:ASN:HA	1.80	1.02
1:F:27:ILE:CD1	1:F:308:GLN:NE2	2.23	1.02
1:G:27:ILE:CD1	1:G:308:GLN:CD	2.28	1.02
1:J:15:GLN:HG2	1:J:316:TYR:CB	1.90	1.02
1:J:114:PRO:CD	1:L:39:SER:OG	0.74	1.02
1:K:27:ILE:CD1	1:K:308:GLN:CD	2.28	1.02
1:L:27:ILE:CD1	1:L:308:GLN:NE2	2.23	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:114:PRO:CD	1:C:39:SER:OG	0.74	1.01
1:B:15:GLN:HG2	1:B:316:TYR:CB	1.90	1.01
1:C:27:ILE:CD1	1:C:308:GLN:NE2	2.23	1.01
1:D:27:ILE:CD1	1:D:308:GLN:NE2	2.23	1.01
1:F:27:ILE:CD1	1:F:308:GLN:CD	2.28	1.01
1:G:27:ILE:CD1	1:G:308:GLN:NE2	2.23	1.01
1:H:27:ILE:CD1	1:H:308:GLN:NE2	2.23	1.01
1:I:15:GLN:HG2	1:I:316:TYR:CB	1.90	1.01
1:L:15:GLN:HG2	1:L:316:TYR:CB	1.90	1.01
1:L:15:GLN:CD	1:L:313:ASN:HA	1.80	1.01
1:A:27:ILE:CD1	1:A:308:GLN:CD	2.28	1.01
1:B:27:ILE:CD1	1:B:308:GLN:NE2	2.23	1.01
1:D:15:GLN:CD	1:D:313:ASN:HA	1.80	1.01
1:L:27:ILE:CD1	1:L:308:GLN:CD	2.28	1.01
1:B:27:ILE:CD1	1:B:308:GLN:CD	2.28	1.01
1:C:15:GLN:HG2	1:C:316:TYR:CB	1.90	1.01
1:D:27:ILE:CD1	1:D:308:GLN:CD	2.28	1.01
1:I:27:ILE:CD1	1:I:308:GLN:NE2	2.23	1.01
1:J:27:ILE:CD1	1:J:308:GLN:NE2	2.23	1.01
1:K:27:ILE:CD1	1:K:308:GLN:NE2	2.23	1.01
1:F:27:ILE:HD11	1:F:308:GLN:NE2	1.76	1.01
1:K:262:ARG:HB2	1:L:34:ARG:HH22	1.19	1.01
1:B:15:GLN:CD	1:B:313:ASN:HA	1.81	1.01
1:H:15:GLN:HG2	1:H:316:TYR:CB	1.90	1.01
1:H:27:ILE:HD11	1:H:308:GLN:NE2	1.76	1.01
1:A:15:GLN:CD	1:A:313:ASN:HA	1.81	1.00
1:A:27:ILE:HD11	1:A:308:GLN:NE2	1.76	1.00
1:D:27:ILE:HD11	1:D:308:GLN:NE2	1.76	1.00
1:G:15:GLN:HG2	1:G:316:TYR:CB	1.90	1.00
1:J:27:ILE:HD11	1:J:308:GLN:NE2	1.76	1.00
1:J:262:ARG:HB2	1:K:34:ARG:HH22	1.19	1.00
1:C:27:ILE:HD11	1:C:308:GLN:NE2	1.76	1.00
1:D:15:GLN:HG2	1:D:316:TYR:CB	1.90	1.00
1:D:59:PRO:O	1:D:217:GLY:HA3	1.60	1.00
1:A:27:ILE:CD1	1:A:308:GLN:NE2	2.23	1.00
1:B:27:ILE:HD11	1:B:308:GLN:NE2	1.76	1.00
1:G:59:PRO:O	1:G:217:GLY:HA3	1.60	1.00
1:L:27:ILE:HD11	1:L:308:GLN:NE2	1.76	1.00
1:B:112:ASN:CA	1:D:43:LYS:NZ	2.25	1.00
1:C:15:GLN:NE2	1:C:316:TYR:CG	2.27	1.00
1:C:15:GLN:CD	1:C:313:ASN:HA	1.80	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:15:GLN:CD	1:K:313:ASN:HA	1.80	1.00
1:C:112:ASN:CA	1:E:43:LYS:NZ	2.25	1.00
1:E:112:ASN:CA	1:G:43:LYS:NZ	2.25	1.00
1:H:59:PRO:O	1:H:217:GLY:HA3	1.60	1.00
1:H:112:ASN:CA	1:J:43:LYS:NZ	2.25	1.00
1:E:15:GLN:CD	1:E:313:ASN:HA	1.80	1.00
1:I:15:GLN:CD	1:I:313:ASN:HA	1.80	1.00
1:J:112:ASN:CA	1:L:43:LYS:NZ	2.25	1.00
1:I:27:ILE:HD11	1:I:308:GLN:NE2	1.76	0.99
1:K:27:ILE:HD11	1:K:308:GLN:NE2	1.76	0.99
1:G:15:GLN:CD	1:G:313:ASN:HA	1.80	0.99
1:E:59:PRO:O	1:E:217:GLY:HA3	1.60	0.99
1:F:112:ASN:CA	1:H:43:LYS:NZ	2.25	0.99
1:G:27:ILE:HD11	1:G:308:GLN:NE2	1.76	0.99
1:G:112:ASN:CA	1:I:43:LYS:NZ	2.25	0.99
1:K:15:GLN:HG2	1:K:316:TYR:CB	1.90	0.99
1:D:112:ASN:CA	1:F:43:LYS:NZ	2.25	0.99
1:I:112:ASN:CA	1:K:43:LYS:NZ	2.25	0.99
1:A:112:ASN:CA	1:C:43:LYS:NZ	2.25	0.99
1:E:27:ILE:HD11	1:E:308:GLN:NE2	1.76	0.99
1:J:59:PRO:O	1:J:217:GLY:HA3	1.60	0.99
1:F:23:ILE:HG23	1:F:316:TYR:CZ	1.98	0.99
1:F:102:LEU:C	1:F:103:PRO:CD	2.31	0.99
1:F:112:ASN:CG	1:H:43:LYS:HZ1	1.48	0.99
1:H:102:LEU:C	1:H:103:PRO:CD	2.31	0.99
1:B:107:TYR:CG	1:D:40:PHE:HB3	1.96	0.98
1:D:102:LEU:C	1:D:103:PRO:CD	2.31	0.98
1:G:15:GLN:NE2	1:G:316:TYR:CG	2.27	0.98
1:G:102:LEU:C	1:G:103:PRO:CD	2.31	0.98
1:E:102:LEU:C	1:E:103:PRO:CD	2.31	0.98
1:I:102:LEU:C	1:I:103:PRO:CD	2.31	0.98
1:F:59:PRO:O	1:F:217:GLY:HA3	1.60	0.98
1:H:23:ILE:HG23	1:H:316:TYR:CZ	1.98	0.98
1:K:23:ILE:HG23	1:K:316:TYR:CZ	1.98	0.98
1:A:102:LEU:C	1:A:103:PRO:CD	2.31	0.98
1:L:102:LEU:C	1:L:103:PRO:CD	2.31	0.98
1:D:23:ILE:HG23	1:D:316:TYR:CZ	1.98	0.98
1:J:15:GLN:NE2	1:J:316:TYR:CG	2.27	0.98
1:J:102:LEU:C	1:J:103:PRO:CD	2.31	0.98
1:B:23:ILE:HG23	1:B:316:TYR:CZ	1.98	0.98
1:A:59:PRO:O	1:A:217:GLY:HA3	1.60	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:102:LEU:C	1:C:103:PRO:CD	2.31	0.98
1:K:102:LEU:C	1:K:103:PRO:CD	2.31	0.98
1:G:23:ILE:HG23	1:G:316:TYR:CZ	1.98	0.98
1:A:23:ILE:HG23	1:A:316:TYR:CZ	1.98	0.97
1:L:23:ILE:HG23	1:L:316:TYR:CZ	1.98	0.97
1:B:102:LEU:C	1:B:103:PRO:CD	2.31	0.97
1:J:115:ASN:CB	1:L:40:PHE:CE2	2.48	0.97
1:E:23:ILE:HG23	1:E:316:TYR:CZ	1.98	0.97
1:E:115:ASN:CB	1:G:40:PHE:CE2	2.48	0.97
1:I:59:PRO:O	1:I:217:GLY:HA3	1.60	0.97
1:I:115:ASN:CB	1:K:40:PHE:CE2	2.48	0.97
1:K:59:PRO:O	1:K:217:GLY:HA3	1.60	0.97
1:H:23:ILE:HG12	1:H:316:TYR:OH	1.65	0.97
1:L:23:ILE:HG12	1:L:316:TYR:OH	1.65	0.97
1:C:23:ILE:HG12	1:C:316:TYR:OH	1.65	0.97
1:E:23:ILE:HG12	1:E:316:TYR:OH	1.65	0.97
1:H:112:ASN:CA	1:J:43:LYS:HZ1	1.77	0.97
1:I:23:ILE:HG12	1:I:316:TYR:OH	1.65	0.97
1:A:23:ILE:HG12	1:A:316:TYR:OH	1.65	0.97
1:C:23:ILE:HG23	1:C:316:TYR:CZ	1.98	0.97
1:I:23:ILE:HG23	1:I:316:TYR:CZ	1.98	0.97
1:A:115:ASN:CB	1:C:40:PHE:CE2	2.48	0.96
1:C:102:LEU:C	1:C:103:PRO:HD3	1.86	0.96
1:J:23:ILE:HG23	1:J:316:TYR:CZ	1.98	0.96
1:B:59:PRO:O	1:B:217:GLY:HA3	1.60	0.96
1:C:59:PRO:O	1:C:217:GLY:HA3	1.60	0.96
1:F:115:ASN:CB	1:H:40:PHE:CE2	2.48	0.96
1:G:102:LEU:C	1:G:103:PRO:HD3	1.86	0.96
1:E:102:LEU:C	1:E:103:PRO:HD3	1.86	0.96
1:I:102:LEU:C	1:I:103:PRO:HD3	1.86	0.96
1:B:23:ILE:HG12	1:B:316:TYR:OH	1.65	0.96
1:C:115:ASN:CB	1:E:40:PHE:CE2	2.48	0.96
1:J:23:ILE:HG12	1:J:316:TYR:OH	1.65	0.96
1:B:115:ASN:CB	1:D:40:PHE:CE2	2.48	0.96
1:D:115:ASN:CB	1:F:40:PHE:CE2	2.48	0.96
1:G:23:ILE:HG12	1:G:316:TYR:OH	1.65	0.96
1:K:102:LEU:C	1:K:103:PRO:HD3	1.86	0.96
1:L:59:PRO:O	1:L:217:GLY:HA3	1.60	0.96
1:L:102:LEU:C	1:L:103:PRO:HD3	1.86	0.96
1:F:23:ILE:HG12	1:F:316:TYR:OH	1.65	0.96
1:J:102:LEU:C	1:J:103:PRO:HD3	1.86	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:115:ASN:CB	1:I:40:PHE:CE2	2.48	0.96
1:H:115:ASN:CB	1:J:40:PHE:CE2	2.48	0.96
1:J:274:THR:CG2	1:L:240:ASN:ND2	2.17	0.95
1:B:115:ASN:N	1:D:40:PHE:HA	1.80	0.95
1:A:112:ASN:CB	1:C:43:LYS:NZ	0.80	0.95
1:B:112:ASN:CB	1:D:43:LYS:NZ	0.80	0.95
1:D:23:ILE:HG12	1:D:316:TYR:OH	1.65	0.95
1:K:23:ILE:HG12	1:K:316:TYR:OH	1.65	0.95
1:B:15:GLN:NE2	1:B:316:TYR:CG	2.27	0.95
1:C:112:ASN:CB	1:E:43:LYS:NZ	0.81	0.95
1:D:112:ASN:CB	1:F:43:LYS:NZ	0.80	0.95
1:H:112:ASN:CB	1:J:43:LYS:NZ	0.80	0.95
1:J:112:ASN:CB	1:L:43:LYS:NZ	0.80	0.95
1:A:102:LEU:C	1:A:103:PRO:HD3	1.86	0.95
1:F:15:GLN:NE2	1:F:316:TYR:CG	2.27	0.95
1:H:274:THR:CG2	1:J:240:ASN:ND2	2.17	0.95
1:A:262:ARG:HB2	1:B:34:ARG:HH22	1.18	0.95
1:G:112:ASN:CB	1:I:43:LYS:NZ	0.80	0.95
1:I:112:ASN:CB	1:K:43:LYS:NZ	0.80	0.95
1:K:15:GLN:NE2	1:K:316:TYR:CG	2.27	0.95
1:F:112:ASN:CB	1:H:43:LYS:NZ	0.80	0.95
1:D:115:ASN:N	1:F:40:PHE:HA	1.80	0.95
1:E:112:ASN:CB	1:G:43:LYS:NZ	0.80	0.95
1:F:102:LEU:C	1:F:103:PRO:HD3	1.86	0.95
1:C:262:ARG:HB2	1:D:34:ARG:HH22	1.19	0.94
1:G:115:ASN:H	1:I:40:PHE:HA	1.31	0.94
1:I:115:ASN:N	1:K:40:PHE:HA	1.80	0.94
1:D:102:LEU:C	1:D:103:PRO:HD3	1.86	0.94
1:F:274:THR:CG2	1:H:240:ASN:ND2	2.17	0.94
1:C:107:TYR:CG	1:E:40:PHE:HB3	1.96	0.94
1:E:107:TYR:CG	1:G:40:PHE:HB3	1.96	0.94
1:A:112:ASN:CA	1:C:43:LYS:HZ1	1.79	0.94
1:F:112:ASN:CB	1:H:43:LYS:HZ3	1.60	0.94
1:G:115:ASN:N	1:I:40:PHE:HA	1.80	0.94
1:H:102:LEU:C	1:H:103:PRO:HD3	1.86	0.94
1:B:274:THR:CG2	1:D:240:ASN:ND2	2.17	0.94
1:D:274:THR:CG2	1:F:240:ASN:ND2	2.17	0.94
1:D:17:GLN:CB	1:D:316:TYR:OH	2.16	0.94
1:B:102:LEU:C	1:B:103:PRO:HD3	1.86	0.93
1:B:163:LEU:HD13	1:D:238:ARG:CD	1.98	0.93
1:H:163:LEU:HD13	1:J:238:ARG:CD	1.98	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:112:ASN:CB	1:E:43:LYS:HZ3	1.61	0.93
1:I:163:LEU:HD13	1:K:238:ARG:CD	1.98	0.93
1:C:163:LEU:HD13	1:E:238:ARG:CD	1.98	0.93
1:G:23:ILE:HD13	1:G:316:TYR:HE2	1.34	0.93
1:E:163:LEU:HD13	1:G:238:ARG:CD	1.98	0.93
1:B:17:GLN:CB	1:B:316:TYR:OH	2.16	0.93
1:C:17:GLN:CB	1:C:316:TYR:OH	2.16	0.93
1:C:111:ASN:H	1:E:38:VAL:N	1.67	0.93
1:E:23:ILE:HD13	1:E:316:TYR:HE2	1.34	0.93
1:E:262:ARG:HB2	1:F:34:ARG:HH22	1.19	0.93
1:F:17:GLN:CB	1:F:316:TYR:OH	2.16	0.93
1:G:112:ASN:CB	1:I:43:LYS:HZ3	1.61	0.93
1:H:15:GLN:NE2	1:H:316:TYR:CG	2.27	0.93
1:J:111:ASN:H	1:L:38:VAL:N	1.67	0.93
1:J:163:LEU:HD13	1:L:238:ARG:CD	1.98	0.93
1:A:111:ASN:H	1:C:38:VAL:N	1.67	0.93
1:D:163:LEU:HD13	1:F:238:ARG:CD	1.98	0.93
1:E:111:ASN:H	1:G:38:VAL:N	1.67	0.93
1:G:17:GLN:CB	1:G:316:TYR:OH	2.16	0.93
1:G:111:ASN:H	1:I:38:VAL:N	1.67	0.93
1:G:269:GLU:CD	1:H:68:THR:OG1	2.07	0.93
1:I:111:ASN:H	1:K:38:VAL:N	1.67	0.93
1:K:269:GLU:CD	1:L:68:THR:OG1	2.07	0.93
1:C:269:GLU:CD	1:D:68:THR:OG1	2.07	0.93
1:K:23:ILE:HD13	1:K:316:TYR:HE2	1.34	0.93
1:E:17:GLN:CB	1:E:316:TYR:OH	2.16	0.93
1:J:115:ASN:N	1:L:40:PHE:HA	1.80	0.93
1:B:269:GLU:CD	1:C:68:THR:OG1	2.07	0.93
1:C:15:GLN:CD	1:C:316:TYR:HB3	1.90	0.93
1:A:17:GLN:CB	1:A:316:TYR:OH	2.16	0.92
1:G:107:TYR:CG	1:I:40:PHE:HB3	1.96	0.92
1:H:111:ASN:H	1:J:38:VAL:N	1.67	0.92
1:I:23:ILE:HD13	1:I:316:TYR:HE2	1.34	0.92
1:K:15:GLN:CG	1:K:316:TYR:CB	2.47	0.92
1:K:17:GLN:CB	1:K:316:TYR:OH	2.16	0.92
1:B:15:GLN:CG	1:B:316:TYR:CB	2.47	0.92
1:C:23:ILE:HD13	1:C:316:TYR:HE2	1.34	0.92
1:E:115:ASN:H	1:G:40:PHE:HA	1.31	0.92
1:G:15:GLN:CD	1:G:316:TYR:HB3	1.90	0.92
1:G:15:GLN:CG	1:G:316:TYR:CB	2.47	0.92
1:G:163:LEU:HD13	1:I:238:ARG:CD	1.98	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:15:GLN:CG	1:H:316:TYR:CB	2.47	0.92
1:A:115:ASN:H	1:C:40:PHE:HA	1.31	0.92
1:J:17:GLN:CB	1:J:316:TYR:OH	2.16	0.92
1:L:17:GLN:CB	1:L:316:TYR:OH	2.16	0.92
1:B:15:GLN:HG2	1:B:316:TYR:HB2	1.50	0.92
1:E:269:GLU:CD	1:F:68:THR:OG1	2.07	0.92
1:F:15:GLN:CG	1:F:316:TYR:CB	2.47	0.92
1:I:269:GLU:CD	1:J:68:THR:OG1	2.07	0.92
1:J:112:ASN:CA	1:L:43:LYS:HZ1	1.81	0.92
1:L:15:GLN:CD	1:L:316:TYR:HB3	1.90	0.92
1:L:15:GLN:CG	1:L:316:TYR:HB2	1.99	0.92
1:A:269:GLU:CD	1:B:68:THR:OG1	2.07	0.92
1:F:111:ASN:H	1:H:38:VAL:N	1.67	0.92
1:A:15:GLN:CG	1:A:316:TYR:HB2	2.00	0.92
1:F:163:LEU:HD13	1:H:238:ARG:CD	1.98	0.92
1:H:15:GLN:CD	1:H:316:TYR:HB3	1.90	0.92
1:K:15:GLN:HG2	1:K:316:TYR:HB2	1.50	0.92
1:K:15:GLN:CG	1:K:316:TYR:HB2	1.99	0.92
1:A:23:ILE:HD13	1:A:316:TYR:HE2	1.34	0.92
1:C:115:ASN:H	1:E:40:PHE:HA	1.31	0.92
1:D:111:ASN:H	1:F:38:VAL:N	1.67	0.92
1:F:269:GLU:CD	1:G:68:THR:OG1	2.07	0.92
1:G:15:GLN:HG2	1:G:316:TYR:HB2	1.50	0.92
1:H:15:GLN:CG	1:H:316:TYR:HB2	1.99	0.92
1:I:17:GLN:CB	1:I:316:TYR:OH	2.16	0.92
1:J:15:GLN:HG2	1:J:316:TYR:HB2	1.50	0.92
1:J:15:GLN:CG	1:J:316:TYR:CB	2.47	0.92
1:A:15:GLN:CG	1:A:316:TYR:CB	2.47	0.92
1:B:111:ASN:H	1:D:38:VAL:N	1.67	0.92
1:H:17:GLN:CB	1:H:316:TYR:OH	2.16	0.92
1:L:15:GLN:CG	1:L:316:TYR:CB	2.47	0.92
1:A:31:SER:OG	1:A:216:LYS:CG	2.18	0.92
1:B:15:GLN:CG	1:B:316:TYR:HB2	1.99	0.92
1:C:31:SER:OG	1:C:216:LYS:CG	2.18	0.92
1:E:15:GLN:HG2	1:E:316:TYR:HB2	1.50	0.92
1:H:115:ASN:H	1:J:40:PHE:HA	1.31	0.92
1:J:115:ASN:H	1:L:40:PHE:HA	1.31	0.92
1:K:31:SER:OG	1:K:216:LYS:CG	2.18	0.92
1:B:23:ILE:HD13	1:B:316:TYR:HE2	1.34	0.92
1:E:15:GLN:CG	1:E:316:TYR:HB2	1.99	0.92
1:F:115:ASN:H	1:H:40:PHE:HA	1.31	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:31:SER:OG	1:H:216:LYS:CG	2.18	0.92
1:J:31:SER:OG	1:J:216:LYS:CG	2.18	0.92
1:J:269:GLU:CD	1:K:68:THR:OG1	2.07	0.92
1:L:15:GLN:HG2	1:L:316:TYR:HB2	1.50	0.92
1:A:15:GLN:CD	1:A:316:TYR:HB3	1.90	0.91
1:C:15:GLN:CG	1:C:316:TYR:CB	2.47	0.91
1:D:15:GLN:NE2	1:D:316:TYR:CG	2.27	0.91
1:D:107:TYR:CG	1:F:40:PHE:HB3	1.96	0.91
1:F:15:GLN:CG	1:F:316:TYR:HB2	1.99	0.91
1:I:107:TYR:CG	1:K:40:PHE:HB3	1.96	0.91
1:J:15:GLN:CD	1:J:316:TYR:HB3	1.90	0.91
1:A:163:LEU:HD13	1:C:238:ARG:CD	1.98	0.91
1:E:110:ARG:N	1:G:38:VAL:CG1	2.34	0.91
1:I:15:GLN:CG	1:I:316:TYR:CB	2.47	0.91
1:I:15:GLN:CG	1:I:316:TYR:HB2	1.99	0.91
1:L:31:SER:OG	1:L:216:LYS:CG	2.18	0.91
1:A:15:GLN:HG2	1:A:316:TYR:HB2	1.50	0.91
1:B:31:SER:OG	1:B:216:LYS:CG	2.18	0.91
1:C:15:GLN:CG	1:C:316:TYR:HB2	1.99	0.91
1:C:110:ARG:N	1:E:38:VAL:CG1	2.34	0.91
1:D:15:GLN:CG	1:D:316:TYR:CB	2.47	0.91
1:D:115:ASN:H	1:F:40:PHE:HA	1.31	0.91
1:E:31:SER:OG	1:E:216:LYS:CG	2.18	0.91
1:E:274:THR:CG2	1:G:240:ASN:ND2	2.17	0.91
1:F:23:ILE:HD13	1:F:316:TYR:HE2	1.34	0.91
1:F:31:SER:OG	1:F:216:LYS:CG	2.18	0.91
1:F:107:TYR:CG	1:H:40:PHE:HB3	1.96	0.91
1:H:107:TYR:CG	1:J:40:PHE:HB3	1.96	0.91
1:D:15:GLN:CG	1:D:316:TYR:HB2	1.99	0.91
1:D:269:GLU:CD	1:E:68:THR:OG1	2.07	0.91
1:E:15:GLN:CG	1:E:316:TYR:CB	2.47	0.91
1:H:23:ILE:HD13	1:H:316:TYR:HE2	1.34	0.91
1:H:112:ASN:CB	1:J:43:LYS:HZ3	1.61	0.91
1:K:15:GLN:CD	1:K:316:TYR:HB3	1.90	0.91
1:A:110:ARG:N	1:C:38:VAL:CG1	2.34	0.91
1:E:15:GLN:CD	1:E:316:TYR:HB3	1.90	0.91
1:H:15:GLN:HG2	1:H:316:TYR:HB2	1.50	0.91
1:A:107:TYR:CG	1:C:40:PHE:HB3	1.96	0.91
1:B:15:GLN:CD	1:B:316:TYR:HB3	1.90	0.91
1:F:110:ARG:N	1:H:38:VAL:CG1	2.34	0.91
1:G:31:SER:OG	1:G:216:LYS:CG	2.18	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:150:ILE:HD12	1:I:42:ASP:OD2	1.71	0.91
1:J:110:ARG:N	1:L:38:VAL:CG1	2.34	0.91
1:A:150:ILE:HD12	1:C:42:ASP:OD2	1.71	0.91
1:D:110:ARG:N	1:F:38:VAL:CG1	2.34	0.91
1:G:15:GLN:CG	1:G:316:TYR:HB2	1.99	0.91
1:G:110:ARG:N	1:I:38:VAL:CG1	2.34	0.91
1:H:110:ARG:N	1:J:38:VAL:CG1	2.34	0.91
1:F:114:PRO:CG	1:H:39:SER:OG	2.17	0.91
1:H:269:GLU:CD	1:I:68:THR:OG1	2.07	0.91
1:D:15:GLN:CD	1:D:316:TYR:HB3	1.90	0.91
1:I:150:ILE:HD12	1:K:42:ASP:OD2	1.71	0.91
1:J:23:ILE:HD13	1:J:316:TYR:HE2	1.34	0.91
1:D:31:SER:OG	1:D:216:LYS:CG	2.18	0.91
1:F:150:ILE:HD12	1:H:42:ASP:OD2	1.71	0.91
1:J:15:GLN:CG	1:J:316:TYR:HB2	1.99	0.91
1:L:23:ILE:HD13	1:L:316:TYR:HE2	1.34	0.91
1:D:15:GLN:HG2	1:D:316:TYR:HB2	1.50	0.90
1:D:112:ASN:HB3	1:F:43:LYS:HE3	1.51	0.90
1:I:15:GLN:CD	1:I:316:TYR:HB3	1.90	0.90
1:I:112:ASN:CB	1:K:43:LYS:HZ3	1.61	0.90
1:D:23:ILE:HG21	1:D:316:TYR:CE2	2.07	0.90
1:F:112:ASN:HB3	1:H:43:LYS:HE3	1.51	0.90
1:D:112:ASN:CB	1:F:43:LYS:HZ3	1.61	0.90
1:F:15:GLN:HG2	1:F:316:TYR:HB2	1.50	0.90
1:H:150:ILE:HD12	1:J:42:ASP:OD2	1.71	0.90
1:B:115:ASN:H	1:D:40:PHE:HA	1.31	0.90
1:C:15:GLN:HG2	1:C:316:TYR:HB2	1.50	0.90
1:F:112:ASN:CB	1:H:43:LYS:HZ2	0.63	0.90
1:A:115:ASN:N	1:C:40:PHE:HA	1.80	0.90
1:I:31:SER:OG	1:I:216:LYS:CG	2.18	0.90
1:A:112:ASN:CB	1:C:43:LYS:HZ3	1.60	0.90
1:F:15:GLN:CD	1:F:316:TYR:HB3	1.90	0.90
1:B:110:ARG:N	1:D:38:VAL:CG1	2.34	0.90
1:B:112:ASN:HB3	1:D:43:LYS:HE3	1.51	0.90
1:D:150:ILE:HD12	1:F:42:ASP:OD2	1.71	0.90
1:H:114:PRO:CG	1:J:39:SER:OG	2.17	0.90
1:A:274:THR:CG2	1:C:240:ASN:ND2	2.17	0.90
1:C:15:GLN:HG2	1:C:316:TYR:CD1	2.07	0.90
1:H:112:ASN:HB3	1:J:43:LYS:HE3	1.51	0.90
1:I:110:ARG:N	1:K:38:VAL:CG1	2.34	0.90
1:I:115:ASN:H	1:K:40:PHE:HA	1.31	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:15:GLN:HG2	1:I:316:TYR:CD1	2.07	0.89
1:J:107:TYR:CG	1:L:40:PHE:HB3	1.96	0.89
1:B:150:ILE:HD12	1:D:42:ASP:OD2	1.71	0.89
1:E:150:ILE:HD12	1:G:42:ASP:OD2	1.71	0.89
1:I:15:GLN:HG2	1:I:316:TYR:HB2	1.50	0.89
1:B:23:ILE:HG21	1:B:316:TYR:CE2	2.06	0.89
1:C:150:ILE:HD12	1:E:42:ASP:OD2	1.71	0.89
1:D:23:ILE:HD13	1:D:316:TYR:HE2	1.34	0.89
1:E:15:GLN:HG2	1:E:316:TYR:CD1	2.07	0.89
1:C:23:ILE:HG21	1:C:316:TYR:CE2	2.07	0.89
1:F:15:GLN:HG2	1:F:316:TYR:CD1	2.07	0.89
1:I:23:ILE:HG21	1:I:316:TYR:CE2	2.07	0.89
1:K:15:GLN:HG2	1:K:316:TYR:CD1	2.07	0.89
1:D:15:GLN:HG2	1:D:316:TYR:CD1	2.07	0.89
1:E:37:ALA:H	1:E:47:ASN:HD21	1.21	0.89
1:G:15:GLN:HG2	1:G:316:TYR:CD1	2.07	0.89
1:B:114:PRO:CG	1:D:39:SER:OG	2.17	0.89
1:J:15:GLN:HG2	1:J:316:TYR:CD1	2.07	0.89
1:A:15:GLN:HG2	1:A:316:TYR:CD1	2.07	0.88
1:C:115:ASN:N	1:E:40:PHE:HA	1.80	0.88
1:F:23:ILE:HG21	1:F:316:TYR:CE2	2.07	0.88
1:H:23:ILE:HG21	1:H:316:TYR:CE2	2.07	0.88
1:I:37:ALA:H	1:I:47:ASN:HD21	1.21	0.88
1:L:15:GLN:HG2	1:L:316:TYR:CD1	2.07	0.88
1:E:115:ASN:N	1:G:40:PHE:HA	1.80	0.88
1:J:150:ILE:HD12	1:L:42:ASP:OD2	1.71	0.88
1:B:15:GLN:HG2	1:B:316:TYR:CD1	2.07	0.88
1:C:274:THR:CG2	1:E:240:ASN:ND2	2.17	0.88
1:J:112:ASN:CB	1:L:43:LYS:HZ3	1.61	0.88
1:A:23:ILE:HG21	1:A:316:TYR:CE2	2.06	0.88
1:G:37:ALA:H	1:G:47:ASN:HD21	1.20	0.88
1:J:23:ILE:HG21	1:J:316:TYR:CE2	2.07	0.88
1:B:13:LYS:HD2	1:B:308:GLN:O	1.74	0.88
1:L:23:ILE:HG21	1:L:316:TYR:CE2	2.07	0.88
1:J:112:ASN:HB3	1:L:43:LYS:HE3	1.52	0.88
1:I:13:LYS:HD2	1:I:308:GLN:O	1.74	0.88
1:K:37:ALA:H	1:K:47:ASN:HD21	1.20	0.88
1:E:112:ASN:CB	1:G:43:LYS:HZ3	1.61	0.88
1:F:115:ASN:N	1:H:40:PHE:HA	1.80	0.88
1:H:13:LYS:HD2	1:H:308:GLN:O	1.74	0.88
1:A:15:GLN:CD	1:A:316:TYR:CB	2.42	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:110:ARG:HD3	1:E:35:GLU:OE2	1.74	0.88
1:G:13:LYS:HD2	1:G:308:GLN:O	1.74	0.88
1:G:274:THR:CG2	1:I:240:ASN:ND2	2.17	0.88
1:H:15:GLN:HG2	1:H:316:TYR:CD1	2.07	0.88
1:K:23:ILE:HG21	1:K:316:TYR:CE2	2.07	0.88
1:A:110:ARG:HD3	1:C:35:GLU:OE2	1.74	0.87
1:A:111:ASN:H	1:C:38:VAL:H	0.87	0.87
1:C:163:LEU:HD13	1:E:238:ARG:HD3	1.56	0.87
1:E:15:GLN:NE2	1:E:316:TYR:CG	2.27	0.87
1:E:110:ARG:HD3	1:G:35:GLU:OE2	1.74	0.87
1:E:111:ASN:H	1:G:38:VAL:H	0.87	0.87
1:E:163:LEU:HD13	1:G:238:ARG:HD3	1.56	0.87
1:G:163:LEU:HD13	1:I:238:ARG:HD3	1.56	0.87
1:C:15:GLN:CD	1:C:316:TYR:CB	2.42	0.87
1:G:110:ARG:HD3	1:I:35:GLU:OE2	1.74	0.87
1:I:15:GLN:CD	1:I:316:TYR:CB	2.42	0.87
1:I:111:ASN:H	1:K:38:VAL:H	0.87	0.87
1:I:163:LEU:HD13	1:K:238:ARG:HD3	1.56	0.87
1:B:15:GLN:CD	1:B:316:TYR:CB	2.42	0.87
1:B:112:ASN:CB	1:D:43:LYS:HZ3	1.61	0.87
1:C:37:ALA:H	1:C:47:ASN:HD21	1.21	0.87
1:E:15:GLN:CD	1:E:316:TYR:CB	2.42	0.87
1:G:15:GLN:CD	1:G:316:TYR:CB	2.42	0.87
1:I:110:ARG:HD3	1:K:35:GLU:OE2	1.74	0.87
1:K:15:GLN:CD	1:K:316:TYR:CB	2.42	0.87
1:A:163:LEU:HD13	1:C:238:ARG:HD3	1.56	0.87
1:G:107:TYR:HD2	1:I:40:PHE:HB2	1.39	0.87
1:H:15:GLN:CD	1:H:316:TYR:CB	2.42	0.87
1:J:15:GLN:CD	1:J:316:TYR:CB	2.42	0.87
1:A:37:ALA:H	1:A:47:ASN:HD21	1.21	0.87
1:A:108:TYR:HD2	1:C:40:PHE:H	1.21	0.87
1:D:15:GLN:CD	1:D:316:TYR:CB	2.42	0.87
1:F:15:GLN:CD	1:F:316:TYR:CB	2.42	0.87
1:F:110:ARG:HD3	1:H:35:GLU:OE2	1.74	0.87
1:G:111:ASN:H	1:I:38:VAL:H	0.87	0.87
1:J:13:LYS:HD2	1:J:308:GLN:O	1.74	0.87
1:J:163:LEU:HD13	1:L:238:ARG:HD3	1.56	0.87
1:L:15:GLN:CD	1:L:316:TYR:CB	2.42	0.87
1:D:13:LYS:HD2	1:D:308:GLN:O	1.74	0.87
1:G:23:ILE:HG21	1:G:316:TYR:CE2	2.07	0.87
1:K:13:LYS:HD2	1:K:308:GLN:O	1.74	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:13:LYS:HD2	1:A:308:GLN:O	1.74	0.87
1:E:23:ILE:HG21	1:E:316:TYR:CE2	2.07	0.87
1:H:110:ARG:HD3	1:J:35:GLU:OE2	1.74	0.87
1:D:110:ARG:HD3	1:F:35:GLU:OE2	1.74	0.87
1:F:13:LYS:HD2	1:F:308:GLN:O	1.74	0.87
1:I:107:TYR:HD2	1:K:40:PHE:HB2	1.39	0.87
1:C:111:ASN:H	1:E:38:VAL:H	0.87	0.86
1:E:107:TYR:HD2	1:G:40:PHE:HB2	1.39	0.86
1:A:112:ASN:CB	1:C:43:LYS:HZ1	0.74	0.86
1:B:107:TYR:HD2	1:D:40:PHE:HB2	1.39	0.86
1:H:115:ASN:N	1:J:40:PHE:HA	1.80	0.86
1:C:13:LYS:HD2	1:C:308:GLN:O	1.74	0.86
1:D:107:TYR:HD2	1:F:40:PHE:HB2	1.39	0.86
1:J:110:ARG:HD3	1:L:35:GLU:OE2	1.74	0.86
1:J:111:ASN:H	1:L:38:VAL:H	0.87	0.86
1:L:37:ALA:H	1:L:47:ASN:HD21	1.20	0.86
1:B:37:ALA:H	1:B:47:ASN:HD21	1.20	0.86
1:H:163:LEU:HD13	1:J:238:ARG:HD3	1.56	0.86
1:B:163:LEU:HD13	1:D:238:ARG:HD3	1.56	0.86
1:A:15:GLN:NE2	1:A:316:TYR:CG	2.27	0.86
1:A:106:GLU:O	1:C:40:PHE:CD2	2.29	0.86
1:B:110:ARG:HD3	1:D:35:GLU:OE2	1.74	0.86
1:F:106:GLU:O	1:H:40:PHE:CD2	2.29	0.86
1:F:107:TYR:HD2	1:H:40:PHE:HB2	1.39	0.86
1:B:106:GLU:O	1:D:40:PHE:CD2	2.29	0.86
1:E:108:TYR:HD2	1:G:40:PHE:H	1.21	0.86
1:F:111:ASN:H	1:H:38:VAL:H	0.87	0.86
1:D:111:ASN:H	1:F:38:VAL:H	0.87	0.85
1:G:15:GLN:CG	1:G:316:TYR:CG	2.59	0.85
1:H:107:TYR:HD2	1:J:40:PHE:HB2	1.39	0.85
1:I:62:PRO:CD	1:I:215:THR:H	1.78	0.85
1:J:107:TYR:HD2	1:L:40:PHE:HB2	1.39	0.85
1:E:106:GLU:O	1:G:40:PHE:CD2	2.29	0.85
1:F:163:LEU:HD13	1:H:238:ARG:HD3	1.56	0.85
1:D:62:PRO:CD	1:D:215:THR:H	1.78	0.85
1:H:15:GLN:CG	1:H:316:TYR:CG	2.59	0.85
1:J:112:ASN:CB	1:L:43:LYS:HZ1	0.75	0.85
1:A:262:ARG:CB	1:B:34:ARG:HH22	1.90	0.85
1:B:108:TYR:HD2	1:D:40:PHE:H	1.21	0.85
1:C:15:GLN:CG	1:C:316:TYR:CG	2.59	0.85
1:H:106:GLU:O	1:J:40:PHE:CD2	2.29	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:62:PRO:CD	1:J:215:THR:H	1.78	0.85
1:J:106:GLU:O	1:L:40:PHE:CD2	2.29	0.85
1:C:107:TYR:HD2	1:E:40:PHE:HB2	1.39	0.85
1:I:106:GLU:O	1:K:40:PHE:CD2	2.29	0.85
1:B:15:GLN:CG	1:B:316:TYR:CG	2.59	0.85
1:D:163:LEU:HD13	1:F:238:ARG:HD3	1.56	0.85
1:E:13:LYS:HD2	1:E:308:GLN:O	1.74	0.85
1:F:15:GLN:CG	1:F:316:TYR:CG	2.59	0.85
1:I:107:TYR:HD2	1:K:40:PHE:CB	1.89	0.85
1:J:108:TYR:HD2	1:L:40:PHE:H	1.21	0.85
1:J:262:ARG:CB	1:K:34:ARG:HH22	1.90	0.85
1:L:13:LYS:HD2	1:L:308:GLN:O	1.74	0.85
1:C:106:GLU:O	1:E:40:PHE:CD2	2.29	0.85
1:C:262:ARG:CB	1:D:34:ARG:HH22	1.90	0.85
1:A:107:TYR:HD2	1:C:40:PHE:HB2	1.39	0.85
1:D:15:GLN:CG	1:D:316:TYR:CG	2.59	0.85
1:H:262:ARG:CB	1:I:34:ARG:HH22	1.90	0.85
1:K:15:GLN:CG	1:K:316:TYR:CG	2.59	0.85
1:E:262:ARG:CB	1:F:34:ARG:HH22	1.90	0.85
1:F:262:ARG:CB	1:G:34:ARG:HH22	1.90	0.85
1:H:37:ALA:H	1:H:47:ASN:HD21	1.20	0.85
1:I:112:ASN:HB3	1:K:43:LYS:HE3	1.51	0.85
1:E:62:PRO:CD	1:E:215:THR:H	1.78	0.84
1:F:37:ALA:H	1:F:47:ASN:HD21	1.21	0.84
1:A:112:ASN:HB3	1:C:43:LYS:HE3	1.51	0.84
1:D:106:GLU:O	1:F:40:PHE:CD2	2.29	0.84
1:D:262:ARG:CB	1:E:34:ARG:HH22	1.90	0.84
1:F:108:TYR:HD2	1:H:40:PHE:H	1.21	0.84
1:F:112:ASN:N	1:H:38:VAL:O	2.01	0.84
1:G:262:ARG:CB	1:H:34:ARG:HH22	1.90	0.84
1:L:15:GLN:NE2	1:L:316:TYR:CG	2.27	0.84
1:C:112:ASN:CB	1:E:43:LYS:CD	2.55	0.84
1:D:108:TYR:CD2	1:F:40:PHE:N	2.45	0.84
1:E:15:GLN:CG	1:E:316:TYR:CG	2.59	0.84
1:I:108:TYR:CD2	1:K:40:PHE:N	2.45	0.84
1:I:262:ARG:CB	1:J:34:ARG:HH22	1.90	0.84
1:J:37:ALA:H	1:J:47:ASN:HD21	1.21	0.84
1:B:262:ARG:CB	1:C:34:ARG:HH22	1.90	0.84
1:A:274:THR:HG22	1:C:240:ASN:HD22	1.42	0.84
1:J:274:THR:HG22	1:L:240:ASN:HD22	1.42	0.84
1:K:262:ARG:CB	1:L:34:ARG:HH22	1.90	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:15:GLN:CG	1:A:316:TYR:CG	2.59	0.84
1:D:112:ASN:CB	1:F:43:LYS:CD	2.55	0.84
1:F:112:ASN:CB	1:H:43:LYS:CD	2.55	0.84
1:I:15:GLN:CG	1:I:316:TYR:CG	2.59	0.84
1:I:274:THR:CG2	1:K:240:ASN:ND2	2.17	0.84
1:L:15:GLN:CG	1:L:316:TYR:CG	2.59	0.84
1:E:112:ASN:CB	1:G:43:LYS:CD	2.55	0.84
1:G:106:GLU:O	1:I:40:PHE:CD2	2.29	0.84
1:H:112:ASN:CB	1:J:43:LYS:HZ1	0.72	0.84
1:I:112:ASN:CB	1:K:43:LYS:CD	2.55	0.84
1:C:108:TYR:CD2	1:E:40:PHE:N	2.45	0.84
1:D:37:ALA:H	1:D:47:ASN:HD21	1.21	0.84
1:A:112:ASN:CB	1:C:43:LYS:CD	2.55	0.84
1:J:15:GLN:CG	1:J:316:TYR:CG	2.59	0.84
1:C:13:LYS:CD	1:C:308:GLN:O	2.26	0.84
1:C:111:ASN:CA	1:E:38:VAL:H	1.85	0.84
1:C:274:THR:HG22	1:E:240:ASN:HD22	1.42	0.84
1:J:112:ASN:N	1:L:38:VAL:O	2.01	0.84
1:C:112:ASN:HB3	1:E:43:LYS:HE3	1.51	0.83
1:E:13:LYS:CD	1:E:308:GLN:O	2.26	0.83
1:E:274:THR:HG22	1:G:240:ASN:HD22	1.42	0.83
1:F:13:LYS:CD	1:F:308:GLN:O	2.26	0.83
1:G:274:THR:HG22	1:I:240:ASN:HD22	1.42	0.83
1:H:108:TYR:CD2	1:J:40:PHE:N	2.45	0.83
1:I:15:GLN:NE2	1:I:316:TYR:CG	2.27	0.83
1:I:274:THR:HG22	1:K:240:ASN:HD22	1.42	0.83
1:A:13:LYS:CD	1:A:308:GLN:O	2.26	0.83
1:C:150:ILE:CD1	1:E:42:ASP:OD2	2.27	0.83
1:E:114:PRO:CG	1:G:39:SER:OG	2.17	0.83
1:G:13:LYS:CD	1:G:308:GLN:O	2.26	0.83
1:G:112:ASN:HB3	1:I:43:LYS:HE3	1.51	0.83
1:H:111:ASN:H	1:J:38:VAL:H	0.87	0.83
1:H:13:LYS:CD	1:H:308:GLN:O	2.26	0.83
1:I:112:ASN:N	1:K:38:VAL:O	2.01	0.83
1:A:111:ASN:CA	1:C:38:VAL:H	1.85	0.83
1:A:150:ILE:CD1	1:C:42:ASP:OD2	2.27	0.83
1:D:13:LYS:CD	1:D:308:GLN:O	2.26	0.83
1:E:111:ASN:CA	1:G:38:VAL:H	1.85	0.83
1:G:112:ASN:CB	1:I:43:LYS:CD	2.55	0.83
1:H:112:ASN:CB	1:J:43:LYS:CD	2.55	0.83
1:H:112:ASN:N	1:J:38:VAL:O	2.01	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:274:THR:HG22	1:J:240:ASN:HD22	1.42	0.83
1:J:150:ILE:CD1	1:L:42:ASP:OD2	2.27	0.83
1:B:111:ASN:H	1:D:38:VAL:H	0.87	0.83
1:B:112:ASN:CB	1:D:43:LYS:CD	2.55	0.83
1:D:108:TYR:HD2	1:F:40:PHE:H	1.21	0.83
1:E:112:ASN:HB3	1:G:43:LYS:HE3	1.51	0.83
1:K:13:LYS:CD	1:K:308:GLN:O	2.26	0.83
1:D:150:ILE:CD1	1:F:42:ASP:OD2	2.27	0.83
1:H:107:TYR:HD2	1:J:40:PHE:CB	1.89	0.83
1:F:150:ILE:CD1	1:H:42:ASP:OD2	2.26	0.83
1:G:108:TYR:CD2	1:I:40:PHE:N	2.45	0.83
1:H:150:ILE:CD1	1:J:42:ASP:OD2	2.27	0.83
1:I:150:ILE:CD1	1:K:42:ASP:OD2	2.26	0.83
1:J:108:TYR:CD2	1:L:40:PHE:N	2.45	0.83
1:A:62:PRO:CD	1:A:215:THR:H	1.78	0.83
1:E:150:ILE:CD1	1:G:42:ASP:OD2	2.27	0.83
1:J:111:ASN:CA	1:L:38:VAL:H	1.85	0.83
1:J:112:ASN:CB	1:L:43:LYS:CD	2.55	0.83
1:J:13:LYS:CD	1:J:308:GLN:O	2.26	0.82
1:L:13:LYS:CD	1:L:308:GLN:O	2.26	0.82
1:A:110:ARG:H	1:C:38:VAL:HG11	1.44	0.82
1:G:150:ILE:CD1	1:I:42:ASP:OD2	2.27	0.82
1:I:13:LYS:CD	1:I:308:GLN:O	2.26	0.82
1:B:150:ILE:CD1	1:D:42:ASP:OD2	2.27	0.82
1:G:111:ASN:CA	1:I:38:VAL:H	1.85	0.82
1:I:60:ILE:C	1:I:216:LYS:N	2.19	0.82
1:A:114:PRO:CG	1:C:39:SER:OG	2.17	0.82
1:B:112:ASN:CB	1:D:43:LYS:HZ1	0.86	0.82
1:A:107:TYR:CE2	1:C:41:GLY:HA3	2.15	0.82
1:C:108:TYR:HD2	1:E:40:PHE:H	1.21	0.82
1:G:108:TYR:HD2	1:I:40:PHE:H	1.21	0.82
1:G:110:ARG:H	1:I:38:VAL:HG11	1.44	0.82
1:E:108:TYR:CD2	1:G:40:PHE:N	2.45	0.82
1:I:107:TYR:CE2	1:K:41:GLY:HA3	2.15	0.82
1:F:108:TYR:CD2	1:H:40:PHE:N	2.45	0.82
1:I:114:PRO:CG	1:K:39:SER:OG	2.17	0.82
1:B:13:LYS:CD	1:B:308:GLN:O	2.26	0.81
1:B:110:ARG:H	1:D:38:VAL:HG11	1.44	0.81
1:D:110:ARG:H	1:F:38:VAL:HG11	1.44	0.81
1:B:112:ASN:N	1:D:38:VAL:O	2.01	0.81
1:G:112:ASN:N	1:I:38:VAL:O	2.01	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:115:ASN:CB	1:C:40:PHE:CD2	2.64	0.81
1:C:112:ASN:N	1:E:38:VAL:O	2.01	0.81
1:H:111:ASN:CA	1:J:38:VAL:H	1.85	0.81
1:C:115:ASN:CB	1:E:40:PHE:CD2	2.64	0.81
1:C:107:TYR:CE2	1:E:41:GLY:HA3	2.15	0.81
1:G:107:TYR:CE2	1:I:41:GLY:HA3	2.15	0.81
1:I:111:ASN:CA	1:K:38:VAL:H	1.85	0.81
1:F:110:ARG:H	1:H:38:VAL:HG11	1.44	0.81
1:A:108:TYR:CD2	1:C:40:PHE:N	2.45	0.81
1:A:112:ASN:N	1:C:38:VAL:O	2.01	0.81
1:B:115:ASN:CB	1:D:40:PHE:CD2	2.64	0.81
1:C:107:TYR:HD2	1:E:40:PHE:CB	1.89	0.81
1:C:110:ARG:H	1:E:38:VAL:HG11	1.44	0.81
1:I:112:ASN:CB	1:K:43:LYS:HZ1	0.87	0.81
1:D:112:ASN:N	1:F:38:VAL:O	2.01	0.81
1:E:107:TYR:CE2	1:G:41:GLY:HA3	2.15	0.81
1:G:107:TYR:HD2	1:I:40:PHE:CB	1.89	0.81
1:B:107:TYR:HD2	1:D:40:PHE:CB	1.89	0.81
1:E:110:ARG:H	1:G:38:VAL:HG11	1.44	0.81
1:H:115:ASN:CB	1:J:40:PHE:CD2	2.64	0.81
1:J:110:ARG:H	1:L:38:VAL:HG11	1.44	0.81
1:D:115:ASN:CB	1:F:40:PHE:CD2	2.64	0.81
1:H:110:ARG:H	1:J:38:VAL:HG11	1.44	0.80
1:I:115:ASN:CB	1:K:40:PHE:CD2	2.64	0.80
1:E:163:LEU:HD22	1:G:238:ARG:CZ	2.12	0.80
1:H:163:LEU:HD22	1:J:238:ARG:CZ	2.12	0.80
1:B:108:TYR:CD2	1:D:40:PHE:N	2.45	0.80
1:E:115:ASN:CB	1:G:40:PHE:CD2	2.64	0.80
1:J:107:TYR:CE2	1:L:41:GLY:HA3	2.15	0.80
1:E:112:ASN:N	1:G:38:VAL:O	2.01	0.80
1:B:163:LEU:HD22	1:D:238:ARG:CZ	2.12	0.80
1:D:107:TYR:CE2	1:F:41:GLY:HA3	2.15	0.80
1:F:107:TYR:CE2	1:H:41:GLY:HA3	2.15	0.80
1:F:115:ASN:CB	1:H:40:PHE:CD2	2.64	0.80
1:G:115:ASN:CB	1:I:40:PHE:CD2	2.64	0.80
1:B:107:TYR:CE2	1:D:41:GLY:HA3	2.15	0.80
1:F:163:LEU:HD22	1:H:238:ARG:CZ	2.12	0.80
1:C:163:LEU:HD22	1:E:238:ARG:CZ	2.12	0.80
1:D:114:PRO:HD3	1:F:39:SER:OG	0.98	0.80
1:F:111:ASN:CA	1:H:38:VAL:H	1.85	0.80
1:H:107:TYR:CE2	1:J:41:GLY:HA3	2.15	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:115:ASN:CB	1:L:40:PHE:CD2	2.64	0.80
1:B:114:PRO:HD3	1:D:39:SER:OG	0.98	0.80
1:F:114:PRO:HD3	1:H:39:SER:OG	0.98	0.80
1:A:163:LEU:HD22	1:C:238:ARG:CZ	2.12	0.80
1:G:163:LEU:HD22	1:I:238:ARG:CZ	2.12	0.80
1:I:110:ARG:H	1:K:38:VAL:HG11	1.44	0.80
1:C:114:PRO:HD3	1:E:39:SER:OG	0.98	0.79
1:E:114:PRO:HD3	1:G:39:SER:OG	0.98	0.79
1:I:108:TYR:HD2	1:K:40:PHE:H	1.21	0.79
1:E:62:PRO:HD2	1:E:215:THR:H	0.82	0.79
1:H:114:PRO:HD3	1:J:39:SER:OG	0.98	0.79
1:A:23:ILE:CD1	1:A:316:TYR:HE2	1.95	0.79
1:A:114:PRO:HD3	1:C:39:SER:OG	0.98	0.79
1:E:25:GLN:OE1	1:E:313:ASN:CB	2.31	0.79
1:G:112:ASN:CB	1:I:43:LYS:HZ1	0.84	0.79
1:B:274:THR:HG22	1:D:240:ASN:HD22	1.42	0.79
1:D:163:LEU:HD22	1:F:238:ARG:CZ	2.12	0.79
1:F:62:PRO:CD	1:F:215:THR:H	1.78	0.79
1:J:114:PRO:HD3	1:L:39:SER:OG	0.98	0.79
1:J:163:LEU:HD22	1:L:238:ARG:CZ	2.12	0.79
1:C:23:ILE:CD1	1:C:316:TYR:HE2	1.95	0.79
1:C:112:ASN:CB	1:E:43:LYS:HZ2	0.74	0.79
1:F:25:GLN:OE1	1:F:313:ASN:CB	2.31	0.79
1:G:114:PRO:HD3	1:I:39:SER:OG	0.98	0.79
1:D:111:ASN:CA	1:F:38:VAL:H	1.85	0.79
1:I:163:LEU:HD22	1:K:238:ARG:CZ	2.12	0.79
1:D:25:GLN:OE1	1:D:313:ASN:CB	2.31	0.79
1:K:25:GLN:OE1	1:K:313:ASN:CB	2.31	0.79
1:L:23:ILE:CD1	1:L:316:TYR:HE2	1.95	0.79
1:L:62:PRO:CD	1:L:215:THR:H	1.78	0.79
1:J:23:ILE:CD1	1:J:316:TYR:HE2	1.95	0.79
1:B:111:ASN:CA	1:D:38:VAL:H	1.85	0.79
1:D:31:SER:OG	1:D:216:LYS:HG2	1.83	0.79
1:E:23:ILE:CD1	1:E:316:TYR:HE2	1.95	0.79
1:H:108:TYR:HD2	1:J:40:PHE:H	1.21	0.79
1:I:25:GLN:OE1	1:I:313:ASN:CB	2.31	0.79
1:J:25:GLN:OE1	1:J:313:ASN:CB	2.31	0.79
1:E:112:ASN:CB	1:G:43:LYS:HZ1	0.89	0.79
1:G:25:GLN:OE1	1:G:313:ASN:CB	2.31	0.79
1:B:25:GLN:OE1	1:B:313:ASN:CB	2.31	0.78
1:C:25:GLN:OE1	1:C:313:ASN:CB	2.31	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:114:PRO:HD3	1:K:39:SER:OG	0.98	0.78
1:G:62:PRO:HD2	1:G:215:THR:H	0.82	0.78
1:H:23:ILE:CD1	1:H:316:TYR:HE2	1.95	0.78
1:I:23:ILE:CD1	1:I:316:TYR:HE2	1.95	0.78
1:K:23:ILE:CD1	1:K:316:TYR:HE2	1.95	0.78
1:F:210:LEU:HD23	1:F:244:LYS:HE3	1.66	0.78
1:G:23:ILE:CD1	1:G:316:TYR:HE2	1.95	0.78
1:B:31:SER:OG	1:B:216:LYS:HG2	1.83	0.78
1:A:31:SER:OG	1:A:216:LYS:HG2	1.83	0.78
1:B:111:ASN:N	1:D:38:VAL:N	2.28	0.78
1:L:31:SER:OG	1:L:216:LYS:HG2	1.83	0.78
1:B:23:ILE:CD1	1:B:316:TYR:HE2	1.95	0.78
1:H:210:LEU:HD23	1:H:244:LYS:HE3	1.66	0.78
1:D:210:LEU:HD23	1:D:244:LYS:HE3	1.66	0.78
1:F:31:SER:OG	1:F:216:LYS:HG2	1.84	0.78
1:I:31:SER:OG	1:I:216:LYS:HG2	1.84	0.78
1:B:210:LEU:HD23	1:B:244:LYS:HE3	1.66	0.78
1:F:23:ILE:CD1	1:F:316:TYR:HE2	1.95	0.78
1:G:26:HIS:C	1:G:309:TYR:CE2	2.58	0.78
1:G:31:SER:OG	1:G:216:LYS:HG2	1.83	0.78
1:I:26:HIS:C	1:I:309:TYR:CE2	2.58	0.78
1:J:210:LEU:HD23	1:J:244:LYS:HE3	1.66	0.78
1:C:31:SER:OG	1:C:216:LYS:HG2	1.83	0.78
1:K:62:PRO:CD	1:K:215:THR:H	1.78	0.78
1:D:23:ILE:CD1	1:D:316:TYR:HE2	1.95	0.78
1:D:111:ASN:N	1:F:38:VAL:N	2.28	0.78
1:E:26:HIS:C	1:E:309:TYR:CE2	2.58	0.78
1:K:31:SER:OG	1:K:216:LYS:HG2	1.83	0.78
1:L:210:LEU:HD23	1:L:244:LYS:HE3	1.66	0.78
1:G:112:ASN:CB	1:I:43:LYS:HZ2	0.78	0.77
1:K:26:HIS:C	1:K:309:TYR:CE2	2.58	0.77
1:F:111:ASN:N	1:H:38:VAL:N	2.28	0.77
1:D:112:ASN:CB	1:F:43:LYS:HZ2	0.74	0.77
1:I:62:PRO:HD2	1:I:215:THR:H	0.81	0.77
1:E:112:ASN:CB	1:G:43:LYS:HZ2	0.73	0.77
1:H:111:ASN:N	1:J:38:VAL:N	2.28	0.77
1:H:111:ASN:CA	1:J:38:VAL:N	2.46	0.77
1:A:210:LEU:HD23	1:A:244:LYS:HE3	1.66	0.77
1:C:26:HIS:C	1:C:309:TYR:CE2	2.58	0.77
1:D:274:THR:HG22	1:F:240:ASN:HD22	1.42	0.77
1:F:274:THR:HG22	1:H:240:ASN:HD22	1.42	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:111:ASN:N	1:L:38:VAL:N	2.28	0.77
1:K:60:ILE:C	1:K:216:LYS:N	2.19	0.77
1:L:23:ILE:HG12	1:L:316:TYR:HH	1.50	0.77
1:E:31:SER:OG	1:E:216:LYS:HG2	1.83	0.77
1:I:111:ASN:N	1:K:38:VAL:N	2.28	0.77
1:J:31:SER:OG	1:J:216:LYS:HG2	1.83	0.77
1:L:26:HIS:C	1:L:309:TYR:CE2	2.58	0.77
1:D:112:ASN:HB2	1:F:43:LYS:CD	2.15	0.77
1:H:112:ASN:HB2	1:J:43:LYS:CD	2.15	0.77
1:B:26:HIS:C	1:B:309:TYR:CE2	2.58	0.77
1:D:107:TYR:HD2	1:F:40:PHE:CB	1.89	0.77
1:K:210:LEU:HD23	1:K:244:LYS:HE3	1.65	0.77
1:A:26:HIS:C	1:A:309:TYR:CE2	2.58	0.76
1:D:26:HIS:C	1:D:309:TYR:CE2	2.58	0.76
1:H:31:SER:OG	1:H:216:LYS:HG2	1.84	0.76
1:B:112:ASN:HB2	1:D:43:LYS:CD	2.15	0.76
1:C:112:ASN:CB	1:E:43:LYS:HZ1	0.87	0.76
1:F:27:ILE:HD12	1:F:308:GLN:CD	2.06	0.76
1:H:25:GLN:OE1	1:H:313:ASN:CB	2.31	0.76
1:J:26:HIS:C	1:J:309:TYR:CE2	2.57	0.76
1:G:62:PRO:CD	1:G:215:THR:H	1.78	0.76
1:J:111:ASN:CA	1:L:38:VAL:N	2.46	0.76
1:J:112:ASN:HB2	1:L:43:LYS:CD	2.15	0.76
1:B:112:ASN:CB	1:D:43:LYS:HZ2	0.75	0.76
1:K:62:PRO:HD2	1:K:215:THR:H	0.82	0.76
1:E:111:ASN:N	1:G:38:VAL:N	2.28	0.76
1:F:23:ILE:HG12	1:F:316:TYR:HH	1.50	0.76
1:I:111:ASN:CA	1:K:38:VAL:N	2.46	0.76
1:C:111:ASN:N	1:E:38:VAL:N	2.28	0.76
1:C:210:LEU:HD23	1:C:244:LYS:HE3	1.66	0.76
1:G:27:ILE:HD12	1:G:308:GLN:CD	2.06	0.76
1:H:26:HIS:C	1:H:309:TYR:CE2	2.57	0.76
1:F:26:HIS:C	1:F:309:TYR:CE2	2.58	0.76
1:H:27:ILE:HD12	1:H:308:GLN:CD	2.06	0.76
1:I:27:ILE:HD12	1:I:308:GLN:CD	2.06	0.76
1:A:25:GLN:OE1	1:A:313:ASN:CB	2.31	0.76
1:D:27:ILE:HD12	1:D:308:GLN:CD	2.06	0.76
1:I:210:LEU:HD23	1:I:244:LYS:HE3	1.66	0.76
1:E:27:ILE:HD12	1:E:308:GLN:CD	2.06	0.76
1:G:111:ASN:N	1:I:38:VAL:N	2.28	0.75
1:E:27:ILE:HD13	1:E:308:GLN:CD	2.06	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:210:LEU:HD23	1:E:244:LYS:HE3	1.66	0.75
1:D:112:ASN:CB	1:F:43:LYS:HZ1	0.87	0.75
1:G:210:LEU:HD23	1:G:244:LYS:HE3	1.66	0.75
1:F:112:ASN:HB2	1:H:43:LYS:CD	2.15	0.75
1:G:27:ILE:HD13	1:G:308:GLN:CD	2.06	0.75
1:L:25:GLN:OE1	1:L:313:ASN:CB	2.31	0.75
1:L:27:ILE:HD12	1:L:308:GLN:CD	2.06	0.75
1:A:111:ASN:N	1:C:38:VAL:N	2.28	0.75
1:C:62:PRO:CD	1:C:215:THR:H	1.78	0.75
1:I:112:ASN:CB	1:K:43:LYS:HZ2	0.74	0.75
1:C:27:ILE:HD12	1:C:308:GLN:CD	2.06	0.75
1:C:27:ILE:HD13	1:C:308:GLN:CD	2.06	0.75
1:A:107:TYR:HD2	1:C:40:PHE:CB	1.89	0.74
1:I:27:ILE:HD13	1:I:308:GLN:CD	2.06	0.74
1:J:23:ILE:HG12	1:J:316:TYR:HH	1.52	0.74
1:J:27:ILE:HD12	1:J:308:GLN:CD	2.06	0.74
1:B:27:ILE:HD12	1:B:308:GLN:CD	2.06	0.74
1:F:27:ILE:HD13	1:F:308:GLN:CD	2.06	0.74
1:G:111:ASN:CA	1:I:38:VAL:N	2.46	0.74
1:H:27:ILE:HD13	1:H:308:GLN:CD	2.06	0.74
1:H:260:GLU:O	1:H:264:LEU:HG	1.88	0.74
1:A:111:ASN:CA	1:C:38:VAL:N	2.46	0.74
1:F:260:GLU:O	1:F:264:LEU:HG	1.88	0.74
1:K:27:ILE:HD12	1:K:308:GLN:CD	2.06	0.74
1:L:27:ILE:HD13	1:L:308:GLN:CD	2.06	0.74
1:B:27:ILE:HD13	1:B:308:GLN:CD	2.06	0.74
1:D:27:ILE:HD13	1:D:308:GLN:CD	2.06	0.74
1:G:260:GLU:O	1:G:264:LEU:HG	1.88	0.74
1:I:111:ASN:N	1:K:38:VAL:HG22	2.03	0.74
1:K:260:GLU:O	1:K:264:LEU:HG	1.88	0.74
1:E:112:ASN:HB2	1:G:43:LYS:CD	2.15	0.74
1:G:111:ASN:N	1:I:38:VAL:HG22	2.03	0.74
1:G:112:ASN:HB2	1:I:43:LYS:CD	2.15	0.74
1:H:111:ASN:N	1:J:38:VAL:HG22	2.03	0.74
1:C:17:GLN:HB2	1:C:316:TYR:CZ	2.22	0.74
1:D:27:ILE:HD13	1:D:308:GLN:OE1	1.88	0.74
1:E:17:GLN:HB2	1:E:316:TYR:CZ	2.22	0.74
1:A:27:ILE:HD13	1:A:308:GLN:CD	2.06	0.74
1:B:115:ASN:HB2	1:D:40:PHE:CD2	2.23	0.74
1:B:260:GLU:O	1:B:264:LEU:HG	1.88	0.74
1:I:115:ASN:HB2	1:K:40:PHE:CD2	2.23	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:27:ILE:HD13	1:K:308:GLN:CD	2.06	0.74
1:A:27:ILE:HD12	1:A:308:GLN:CD	2.06	0.74
1:D:115:ASN:HB2	1:F:40:PHE:CD2	2.23	0.74
1:D:260:GLU:O	1:D:264:LEU:HG	1.88	0.74
1:J:17:GLN:HB2	1:J:316:TYR:CZ	2.22	0.74
1:J:27:ILE:HD13	1:J:308:GLN:CD	2.06	0.74
1:A:27:ILE:HD13	1:A:308:GLN:OE1	1.88	0.73
1:F:111:ASN:N	1:H:38:VAL:HG22	2.03	0.73
1:G:112:ASN:CA	1:I:43:LYS:HZ1	1.90	0.73
1:H:17:GLN:HB2	1:H:316:TYR:CZ	2.22	0.73
1:I:17:GLN:HB2	1:I:316:TYR:CZ	2.22	0.73
1:J:106:GLU:C	1:L:40:PHE:CE2	2.62	0.73
1:J:260:GLU:O	1:J:264:LEU:HG	1.88	0.73
1:B:111:ASN:N	1:D:38:VAL:HG22	2.03	0.73
1:C:260:GLU:O	1:C:264:LEU:HG	1.88	0.73
1:D:111:ASN:N	1:F:38:VAL:HG22	2.03	0.73
1:E:15:GLN:NE2	1:E:316:TYR:HD2	1.86	0.73
1:E:111:ASN:N	1:G:38:VAL:HG22	2.03	0.73
1:G:110:ARG:N	1:I:38:VAL:HG11	2.02	0.73
1:I:27:ILE:HD13	1:I:308:GLN:OE1	1.88	0.73
1:J:115:ASN:HB2	1:L:40:PHE:CD2	2.23	0.73
1:K:17:GLN:HB2	1:K:316:TYR:CZ	2.22	0.73
1:A:112:ASN:HB2	1:C:43:LYS:CD	2.15	0.73
1:B:17:GLN:HB2	1:B:316:TYR:CZ	2.22	0.73
1:B:62:PRO:CD	1:B:215:THR:H	1.78	0.73
1:C:106:GLU:C	1:E:40:PHE:CE2	2.62	0.73
1:G:15:GLN:NE2	1:G:316:TYR:HD2	1.86	0.73
1:C:210:LEU:O	1:C:212:LEU:N	2.22	0.73
1:D:110:ARG:N	1:F:38:VAL:HG11	2.02	0.73
1:G:210:LEU:O	1:G:212:LEU:N	2.22	0.73
1:H:210:LEU:O	1:H:212:LEU:N	2.22	0.73
1:K:210:LEU:O	1:K:212:LEU:N	2.22	0.73
1:L:17:GLN:HB2	1:L:316:TYR:CZ	2.22	0.73
1:A:17:GLN:HB2	1:A:316:TYR:CZ	2.22	0.73
1:C:112:ASN:HB2	1:E:43:LYS:CD	2.15	0.73
1:D:17:GLN:HB2	1:D:316:TYR:CZ	2.22	0.73
1:D:102:LEU:O	1:D:103:PRO:N	2.22	0.73
1:F:17:GLN:HB2	1:F:316:TYR:CZ	2.22	0.73
1:F:106:GLU:C	1:H:40:PHE:CE2	2.62	0.73
1:G:115:ASN:HB2	1:I:40:PHE:CD2	2.23	0.73
1:H:27:ILE:HD13	1:H:308:GLN:OE1	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:260:GLU:O	1:I:264:LEU:HG	1.88	0.73
1:K:60:ILE:HG12	1:K:216:LYS:HB3	1.68	0.73
1:L:27:ILE:HD13	1:L:308:GLN:OE1	1.88	0.73
1:A:210:LEU:O	1:A:212:LEU:N	2.22	0.73
1:B:60:ILE:C	1:B:216:LYS:N	2.19	0.73
1:B:210:LEU:O	1:B:212:LEU:N	2.22	0.73
1:E:106:GLU:C	1:G:40:PHE:CE2	2.62	0.73
1:F:102:LEU:O	1:F:103:PRO:N	2.22	0.73
1:J:210:LEU:O	1:J:212:LEU:N	2.22	0.73
1:B:102:LEU:O	1:B:103:PRO:N	2.22	0.73
1:D:210:LEU:O	1:D:212:LEU:N	2.22	0.73
1:E:111:ASN:CA	1:G:38:VAL:N	2.46	0.73
1:G:106:GLU:C	1:I:40:PHE:CE2	2.62	0.73
1:K:27:ILE:HD13	1:K:308:GLN:OE1	1.88	0.73
1:A:111:ASN:N	1:C:38:VAL:HG22	2.03	0.73
1:A:115:ASN:HB2	1:C:40:PHE:CD2	2.23	0.73
1:F:27:ILE:HD13	1:F:308:GLN:OE1	1.88	0.73
1:H:102:LEU:O	1:H:103:PRO:N	2.22	0.73
1:C:102:LEU:O	1:C:103:PRO:N	2.22	0.73
1:E:260:GLU:O	1:E:264:LEU:HG	1.88	0.73
1:G:17:GLN:HB2	1:G:316:TYR:CZ	2.22	0.73
1:G:27:ILE:HD13	1:G:308:GLN:OE1	1.88	0.73
1:C:27:ILE:HD13	1:C:308:GLN:OE1	1.88	0.73
1:C:111:ASN:N	1:E:38:VAL:HG22	2.03	0.73
1:F:210:LEU:O	1:F:212:LEU:N	2.22	0.73
1:K:102:LEU:O	1:K:103:PRO:N	2.22	0.73
1:A:260:GLU:O	1:A:264:LEU:HG	1.88	0.72
1:C:15:GLN:NE2	1:C:316:TYR:HD2	1.86	0.72
1:H:62:PRO:CD	1:H:215:THR:H	1.78	0.72
1:L:210:LEU:O	1:L:212:LEU:N	2.22	0.72
1:B:112:ASN:CA	1:D:43:LYS:HZ1	1.93	0.72
1:C:115:ASN:HB2	1:E:40:PHE:CD2	2.23	0.72
1:E:102:LEU:O	1:E:103:PRO:N	2.22	0.72
1:E:210:LEU:O	1:E:212:LEU:N	2.22	0.72
1:J:102:LEU:O	1:J:103:PRO:N	2.22	0.72
1:J:111:ASN:N	1:L:38:VAL:HG22	2.03	0.72
1:L:260:GLU:O	1:L:264:LEU:HG	1.88	0.72
1:B:27:ILE:HD13	1:B:308:GLN:OE1	1.88	0.72
1:B:113:GLN:CG	1:D:37:ALA:C	2.58	0.72
1:F:115:ASN:HB2	1:H:40:PHE:CD2	2.23	0.72
1:I:112:ASN:HB2	1:K:43:LYS:CD	2.15	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:106:GLU:C	1:C:40:PHE:CE2	2.62	0.72
1:A:113:GLN:CG	1:C:37:ALA:C	2.58	0.72
1:E:115:ASN:HB2	1:G:40:PHE:CD2	2.23	0.72
1:C:113:GLN:CG	1:E:37:ALA:C	2.58	0.72
1:E:27:ILE:HD13	1:E:308:GLN:OE1	1.88	0.72
1:E:188:ILE:HD11	1:G:42:ASP:OD1	1.90	0.72
1:H:115:ASN:HB2	1:J:40:PHE:CD2	2.23	0.72
1:I:106:GLU:C	1:K:40:PHE:CE2	2.62	0.72
1:J:27:ILE:HD13	1:J:308:GLN:OE1	1.88	0.72
1:B:112:ASN:HB3	1:D:43:LYS:HZ3	1.31	0.72
1:C:188:ILE:HD11	1:E:42:ASP:OD1	1.90	0.72
1:I:102:LEU:O	1:I:103:PRO:N	2.21	0.72
1:I:210:LEU:O	1:I:212:LEU:N	2.22	0.72
1:A:102:LEU:O	1:A:103:PRO:N	2.22	0.72
1:B:106:GLU:C	1:D:40:PHE:CE2	2.62	0.72
1:C:110:ARG:N	1:E:38:VAL:HG11	2.02	0.72
1:E:17:GLN:HB2	1:E:316:TYR:HH	1.53	0.72
1:H:106:GLU:C	1:J:40:PHE:CE2	2.62	0.72
1:H:113:GLN:CG	1:J:37:ALA:C	2.58	0.72
1:G:113:GLN:CG	1:I:37:ALA:C	2.58	0.72
1:C:111:ASN:CA	1:E:38:VAL:N	2.46	0.72
1:F:247:ILE:O	1:F:250:GLU:HG2	1.90	0.72
1:L:102:LEU:O	1:L:103:PRO:N	2.22	0.72
1:B:15:GLN:NE2	1:B:316:TYR:HD2	1.86	0.72
1:D:113:GLN:CG	1:F:37:ALA:C	2.58	0.72
1:F:113:GLN:CG	1:H:37:ALA:C	2.58	0.72
1:J:188:ILE:HD11	1:L:42:ASP:OD1	1.90	0.72
1:A:110:ARG:N	1:C:38:VAL:HG11	2.02	0.71
1:D:106:GLU:C	1:F:40:PHE:CE2	2.62	0.71
1:G:60:ILE:C	1:G:216:LYS:N	2.19	0.71
1:G:102:LEU:O	1:G:103:PRO:N	2.22	0.71
1:H:247:ILE:O	1:H:250:GLU:HG2	1.90	0.71
1:I:113:GLN:CG	1:K:37:ALA:C	2.58	0.71
1:B:112:ASN:ND2	1:D:43:LYS:NZ	2.38	0.71
1:H:113:GLN:HG2	1:J:37:ALA:C	2.11	0.71
1:I:113:GLN:HG2	1:K:37:ALA:C	2.11	0.71
1:J:112:ASN:ND2	1:L:43:LYS:NZ	2.38	0.71
1:G:113:GLN:HG2	1:I:37:ALA:C	2.11	0.71
1:C:115:ASN:HB3	1:E:40:PHE:CD2	2.26	0.71
1:D:115:ASN:HB3	1:F:40:PHE:CD2	2.26	0.71
1:G:188:ILE:HD11	1:I:42:ASP:OD1	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:247:ILE:O	1:L:250:GLU:HG2	1.90	0.71
1:A:112:ASN:HB3	1:C:43:LYS:HZ3	1.26	0.71
1:C:247:ILE:O	1:C:250:GLU:HG2	1.90	0.71
1:E:31:SER:OG	1:E:216:LYS:HG3	1.91	0.71
1:E:107:TYR:CD2	1:G:40:PHE:HB2	2.16	0.71
1:E:247:ILE:O	1:E:250:GLU:HG2	1.90	0.71
1:G:247:ILE:O	1:G:250:GLU:HG2	1.90	0.71
1:J:115:ASN:HB3	1:L:40:PHE:CD2	2.26	0.71
1:A:188:ILE:HD11	1:C:42:ASP:OD1	1.90	0.71
1:A:247:ILE:O	1:A:250:GLU:HG2	1.90	0.71
1:E:113:GLN:CG	1:G:37:ALA:C	2.58	0.71
1:F:113:GLN:HG2	1:H:37:ALA:C	2.11	0.71
1:F:115:ASN:HB3	1:H:40:PHE:CD2	2.26	0.71
1:H:112:ASN:ND2	1:J:43:LYS:NZ	2.38	0.71
1:A:113:GLN:HG2	1:C:37:ALA:C	2.11	0.71
1:A:115:ASN:HB3	1:C:40:PHE:CD2	2.26	0.71
1:B:247:ILE:O	1:B:250:GLU:HG2	1.90	0.71
1:D:112:ASN:ND2	1:F:43:LYS:NZ	2.38	0.71
1:F:110:ARG:N	1:H:38:VAL:HG11	2.02	0.71
1:F:188:ILE:HD11	1:H:42:ASP:OD1	1.90	0.71
1:G:31:SER:OG	1:G:216:LYS:HG3	1.91	0.71
1:I:188:ILE:HD11	1:K:42:ASP:OD1	1.90	0.71
1:I:247:ILE:O	1:I:250:GLU:HG2	1.90	0.71
1:J:113:GLN:CG	1:L:37:ALA:C	2.58	0.71
1:B:113:GLN:HG2	1:D:37:ALA:C	2.11	0.71
1:I:112:ASN:CA	1:K:43:LYS:HZ1	1.94	0.71
1:K:247:ILE:O	1:K:250:GLU:HG2	1.90	0.71
1:B:188:ILE:HD11	1:D:42:ASP:OD1	1.90	0.70
1:E:110:ARG:N	1:G:38:VAL:HG11	2.02	0.70
1:J:247:ILE:O	1:J:250:GLU:HG2	1.90	0.70
1:L:15:GLN:NE2	1:L:316:TYR:HD2	1.86	0.70
1:E:113:GLN:HG2	1:G:37:ALA:C	2.11	0.70
1:J:112:ASN:HB3	1:L:43:LYS:HZ3	1.26	0.70
1:L:62:PRO:HD2	1:L:215:THR:H	0.81	0.70
1:B:111:ASN:CA	1:D:38:VAL:N	2.46	0.70
1:D:112:ASN:CA	1:F:43:LYS:HZ1	1.94	0.70
1:D:247:ILE:O	1:D:250:GLU:HG2	1.90	0.70
1:F:13:LYS:HB3	1:F:312:VAL:HG11	1.73	0.70
1:G:115:ASN:HB3	1:I:40:PHE:CD2	2.26	0.70
1:I:115:ASN:HB3	1:K:40:PHE:CD2	2.26	0.70
1:L:31:SER:OG	1:L:216:LYS:HG3	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:15:GLN:NE2	1:A:316:TYR:HD2	1.86	0.70
1:C:113:GLN:HG2	1:E:37:ALA:C	2.11	0.70
1:D:113:GLN:HG2	1:F:37:ALA:C	2.11	0.70
1:D:188:ILE:HD11	1:F:42:ASP:OD1	1.90	0.70
1:E:112:ASN:ND2	1:G:43:LYS:NZ	2.38	0.70
1:G:112:ASN:ND2	1:I:43:LYS:NZ	2.38	0.70
1:K:31:SER:OG	1:K:216:LYS:HG3	1.91	0.70
1:C:31:SER:OG	1:C:216:LYS:HG3	1.91	0.70
1:E:115:ASN:HB3	1:G:40:PHE:CD2	2.26	0.70
1:H:110:ARG:N	1:J:38:VAL:HG11	2.02	0.70
1:H:13:LYS:HB3	1:H:312:VAL:HG11	1.73	0.70
1:J:15:GLN:NE2	1:J:316:TYR:HD2	1.86	0.70
1:B:115:ASN:HB3	1:D:40:PHE:CD2	2.26	0.70
1:F:112:ASN:ND2	1:H:43:LYS:NZ	2.38	0.70
1:J:113:GLN:HG2	1:L:37:ALA:C	2.11	0.70
1:H:188:ILE:HD11	1:J:42:ASP:OD1	1.90	0.70
1:C:112:ASN:ND2	1:E:43:LYS:NZ	2.39	0.70
1:D:23:ILE:HG12	1:D:316:TYR:HH	1.55	0.70
1:D:111:ASN:CA	1:F:38:VAL:N	2.46	0.70
1:G:60:ILE:HG13	1:G:216:LYS:HB3	0.72	0.70
1:H:115:ASN:HB3	1:J:40:PHE:CD2	2.25	0.70
1:I:112:ASN:ND2	1:K:43:LYS:NZ	2.38	0.70
1:A:112:ASN:ND2	1:C:43:LYS:NZ	2.38	0.70
1:C:23:ILE:HD13	1:C:316:TYR:CE2	2.24	0.70
1:G:15:GLN:HE21	1:G:316:TYR:HD2	1.35	0.70
1:G:23:ILE:HG12	1:G:316:TYR:HH	1.57	0.70
1:K:15:GLN:NE2	1:K:316:TYR:HD2	1.86	0.70
1:L:60:ILE:HG13	1:L:216:LYS:HB3	0.72	0.70
1:B:60:ILE:HG12	1:B:216:LYS:HB3	1.68	0.69
1:D:15:GLN:NE2	1:D:316:TYR:HD2	1.86	0.69
1:J:110:ARG:N	1:L:38:VAL:HG11	2.02	0.69
1:A:13:LYS:HB3	1:A:312:VAL:HG11	1.73	0.69
1:F:111:ASN:CA	1:H:38:VAL:N	2.46	0.69
1:D:13:LYS:HB3	1:D:312:VAL:HG11	1.73	0.69
1:F:31:SER:OG	1:F:216:LYS:HG3	1.91	0.69
1:L:13:LYS:HB3	1:L:312:VAL:HG11	1.73	0.69
1:B:23:ILE:HG12	1:B:316:TYR:HH	1.56	0.69
1:D:23:ILE:HD13	1:D:316:TYR:CE2	2.24	0.69
1:I:13:LYS:HB3	1:I:312:VAL:HG11	1.73	0.69
1:I:31:SER:OG	1:I:216:LYS:HG3	1.91	0.69
1:A:31:SER:OG	1:A:216:LYS:HG3	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:13:LYS:HB3	1:G:312:VAL:HG11	1.73	0.69
1:H:23:ILE:HD13	1:H:316:TYR:CE2	2.24	0.69
1:H:31:SER:OG	1:H:216:LYS:HG3	1.91	0.69
1:B:262:ARG:NH1	1:C:34:ARG:NE	2.41	0.69
1:D:262:ARG:NH1	1:E:34:ARG:NE	2.41	0.69
1:E:13:LYS:HB3	1:E:312:VAL:HG11	1.73	0.69
1:E:115:ASN:HB3	1:G:40:PHE:CE2	2.28	0.69
1:F:262:ARG:NH1	1:G:34:ARG:NE	2.41	0.69
1:J:62:PRO:HD2	1:J:215:THR:H	0.82	0.69
1:B:13:LYS:HB3	1:B:312:VAL:HG11	1.73	0.69
1:D:31:SER:OG	1:D:216:LYS:HG3	1.91	0.69
1:F:59:PRO:CA	1:F:217:GLY:HA2	2.23	0.69
1:J:31:SER:OG	1:J:216:LYS:HG3	1.91	0.69
1:K:262:ARG:NH1	1:L:34:ARG:NE	2.41	0.69
1:C:107:TYR:CD2	1:E:40:PHE:HB2	2.16	0.69
1:D:60:ILE:HG13	1:D:216:LYS:HB3	0.72	0.69
1:H:15:GLN:NE2	1:H:316:TYR:HD2	1.86	0.69
1:J:112:ASN:CA	1:L:43:LYS:CE	2.65	0.69
1:E:60:ILE:HG13	1:E:216:LYS:HB3	0.72	0.68
1:G:112:ASN:HB3	1:I:43:LYS:HZ3	1.30	0.68
1:H:262:ARG:NH1	1:I:34:ARG:NE	2.41	0.68
1:J:13:LYS:HB3	1:J:312:VAL:HG11	1.73	0.68
1:K:13:LYS:HB3	1:K:312:VAL:HG11	1.73	0.68
1:A:115:ASN:HB3	1:C:40:PHE:CE2	2.28	0.68
1:C:13:LYS:HB3	1:C:312:VAL:HG11	1.73	0.68
1:F:115:ASN:HB3	1:H:40:PHE:CE2	2.28	0.68
1:I:262:ARG:NH1	1:J:34:ARG:NE	2.41	0.68
1:J:60:ILE:HG13	1:J:216:LYS:HB3	0.72	0.68
1:A:23:ILE:HD13	1:A:316:TYR:CE2	2.24	0.68
1:B:110:ARG:N	1:D:38:VAL:HG11	2.02	0.68
1:D:60:ILE:HG12	1:D:216:LYS:HB3	1.68	0.68
1:C:115:ASN:HB3	1:E:40:PHE:CE2	2.28	0.68
1:K:23:ILE:HD13	1:K:316:TYR:CE2	2.24	0.68
1:B:115:ASN:HB3	1:D:40:PHE:CE2	2.28	0.68
1:H:112:ASN:HB3	1:J:43:LYS:HZ3	1.25	0.68
1:L:59:PRO:CA	1:L:217:GLY:HA2	2.23	0.68
1:B:31:SER:OG	1:B:216:LYS:HG3	1.91	0.68
1:B:59:PRO:CA	1:B:217:GLY:HA2	2.23	0.68
1:E:108:TYR:CG	1:G:40:PHE:HB2	2.29	0.68
1:F:58:ASP:OD1	1:F:60:ILE:HG23	1.94	0.68
1:H:58:ASP:OD1	1:H:60:ILE:HG23	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:115:ASN:CB	1:J:40:PHE:HE2	2.06	0.68
1:I:59:PRO:CA	1:I:217:GLY:HA2	2.23	0.68
1:J:262:ARG:NH1	1:K:34:ARG:NE	2.41	0.68
1:G:262:ARG:NH1	1:H:34:ARG:NE	2.41	0.68
1:I:115:ASN:HB3	1:K:40:PHE:CE2	2.28	0.68
1:K:60:ILE:HG13	1:K:216:LYS:HB3	0.72	0.68
1:A:58:ASP:OD1	1:A:60:ILE:HG23	1.94	0.68
1:F:23:ILE:HD13	1:F:316:TYR:CE2	2.24	0.68
1:F:108:TYR:CG	1:H:40:PHE:HB2	2.29	0.68
1:I:15:GLN:NE2	1:I:316:TYR:HD2	1.87	0.68
1:J:58:ASP:OD1	1:J:60:ILE:HG23	1.94	0.68
1:B:108:TYR:CG	1:D:40:PHE:HB2	2.29	0.67
1:C:262:ARG:NH1	1:D:34:ARG:NE	2.41	0.67
1:D:58:ASP:OD1	1:D:60:ILE:HG23	1.94	0.67
1:D:115:ASN:HB3	1:F:40:PHE:CE2	2.28	0.67
1:A:262:ARG:NH1	1:B:34:ARG:NE	2.41	0.67
1:B:58:ASP:OD1	1:B:60:ILE:HG23	1.94	0.67
1:G:115:ASN:CB	1:I:40:PHE:HE2	2.06	0.67
1:C:108:TYR:CG	1:E:40:PHE:HB2	2.29	0.67
1:I:59:PRO:HB3	1:I:220:TYR:CE2	2.30	0.67
1:K:58:ASP:OD1	1:K:60:ILE:HG23	1.94	0.67
1:L:58:ASP:OD1	1:L:60:ILE:HG23	1.94	0.67
1:E:59:PRO:HB3	1:E:220:TYR:CE2	2.30	0.67
1:G:108:TYR:CG	1:I:40:PHE:HB2	2.29	0.67
1:H:108:TYR:CG	1:J:40:PHE:HB2	2.29	0.67
1:I:58:ASP:OD1	1:I:60:ILE:HG23	1.94	0.67
1:C:17:GLN:HB2	1:C:316:TYR:HH	1.60	0.67
1:C:59:PRO:HB3	1:C:220:TYR:CE2	2.30	0.67
1:C:112:ASN:HB3	1:E:43:LYS:HZ3	1.32	0.67
1:E:58:ASP:OD1	1:E:60:ILE:HG23	1.94	0.67
1:E:262:ARG:NH1	1:F:34:ARG:NE	2.41	0.67
1:I:23:ILE:HD13	1:I:316:TYR:CE2	2.24	0.67
1:J:59:PRO:HB3	1:J:220:TYR:CE2	2.30	0.67
1:J:108:TYR:CG	1:L:40:PHE:HB2	2.29	0.67
1:A:59:PRO:HB3	1:A:220:TYR:CE2	2.30	0.67
1:B:23:ILE:HD13	1:B:316:TYR:CE2	2.24	0.67
1:F:112:ASN:CB	1:H:43:LYS:HZ1	0.98	0.67
1:H:62:PRO:HD2	1:H:215:THR:H	0.81	0.67
1:L:31:SER:OG	1:L:216:LYS:CE	2.43	0.67
1:D:59:PRO:HB3	1:D:220:TYR:CE2	2.30	0.67
1:J:115:ASN:CB	1:L:40:PHE:HE2	2.05	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:58:ASP:OD1	1:C:60:ILE:HG23	1.94	0.67
1:C:60:ILE:HG13	1:C:216:LYS:HB3	0.72	0.67
1:F:15:GLN:NE2	1:F:316:TYR:HD2	1.86	0.67
1:F:60:ILE:HG12	1:F:216:LYS:HB3	1.68	0.67
1:H:31:SER:OG	1:H:216:LYS:CE	2.43	0.67
1:D:108:TYR:CG	1:F:40:PHE:HB2	2.29	0.67
1:F:59:PRO:HB3	1:F:220:TYR:CE2	2.30	0.67
1:H:59:PRO:CA	1:H:217:GLY:HA2	2.23	0.67
1:I:17:GLN:HB2	1:I:316:TYR:HH	1.56	0.67
1:A:31:SER:OG	1:A:216:LYS:CE	2.43	0.67
1:B:31:SER:OG	1:B:216:LYS:CE	2.43	0.67
1:B:59:PRO:HB3	1:B:220:TYR:CE2	2.30	0.67
1:E:59:PRO:CA	1:E:217:GLY:HA2	2.23	0.67
1:G:31:SER:OG	1:G:216:LYS:CE	2.43	0.67
1:G:58:ASP:OD1	1:G:60:ILE:HG23	1.94	0.67
1:I:60:ILE:HG13	1:I:216:LYS:HB3	0.72	0.67
1:I:108:TYR:CG	1:K:40:PHE:HB2	2.29	0.67
1:K:31:SER:OG	1:K:216:LYS:CE	2.43	0.67
1:G:59:PRO:HB3	1:G:220:TYR:CE2	2.30	0.66
1:I:115:ASN:CB	1:K:40:PHE:HE2	2.06	0.66
1:C:112:ASN:CA	1:E:43:LYS:HZ1	1.94	0.66
1:H:59:PRO:HB3	1:H:220:TYR:CE2	2.30	0.66
1:H:112:ASN:CB	1:J:43:LYS:HZ2	0.90	0.66
1:K:59:PRO:HB3	1:K:220:TYR:CE2	2.30	0.66
1:A:108:TYR:CG	1:C:40:PHE:HB2	2.29	0.66
1:A:112:ASN:CB	1:C:43:LYS:HZ2	0.87	0.66
1:C:31:SER:OG	1:C:216:LYS:CE	2.43	0.66
1:C:59:PRO:CA	1:C:217:GLY:HA2	2.23	0.66
1:L:59:PRO:HB3	1:L:220:TYR:CE2	2.30	0.66
1:D:62:PRO:HD2	1:D:215:THR:H	0.82	0.66
1:E:112:ASN:CA	1:G:43:LYS:HZ1	1.96	0.66
1:G:23:ILE:HG12	1:G:316:TYR:CZ	2.31	0.66
1:H:60:ILE:HG13	1:H:216:LYS:HB3	0.72	0.66
1:I:31:SER:OG	1:I:216:LYS:CE	2.43	0.66
1:J:112:ASN:CB	1:L:43:LYS:HZ2	0.86	0.66
1:K:17:GLN:HB2	1:K:316:TYR:HH	1.56	0.66
1:B:60:ILE:HG13	1:B:216:LYS:HB3	0.72	0.66
1:D:31:SER:OG	1:D:216:LYS:CE	2.43	0.66
1:H:115:ASN:HB3	1:J:40:PHE:CE2	2.28	0.66
1:J:115:ASN:HB3	1:L:40:PHE:CE2	2.28	0.66
1:D:23:ILE:HG12	1:D:316:TYR:CZ	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:60:ILE:HG12	1:H:216:LYS:HB3	1.68	0.66
1:I:112:ASN:HB3	1:K:43:LYS:HZ3	1.32	0.66
1:K:23:ILE:HG12	1:K:316:TYR:CZ	2.31	0.66
1:B:107:TYR:CD2	1:D:40:PHE:HB2	2.16	0.66
1:H:36:TRP:NE1	1:H:54:GLN:HB2	2.11	0.66
1:I:23:ILE:HG12	1:I:316:TYR:CZ	2.31	0.66
1:K:59:PRO:CA	1:K:217:GLY:HA2	2.23	0.66
1:E:112:ASN:HB3	1:G:43:LYS:HZ3	1.32	0.66
1:F:31:SER:OG	1:F:216:LYS:CE	2.43	0.66
1:F:188:ILE:CD1	1:H:42:ASP:OD1	2.44	0.66
1:I:188:ILE:CD1	1:K:42:ASP:OD1	2.44	0.66
1:J:36:TRP:NE1	1:J:54:GLN:HB2	2.11	0.66
1:L:15:GLN:HE21	1:L:316:TYR:HD2	1.35	0.66
1:A:201:LEU:HD13	1:A:259:LEU:CD1	2.26	0.66
1:D:188:ILE:CD1	1:F:42:ASP:OD1	2.44	0.66
1:F:36:TRP:NE1	1:F:54:GLN:HB2	2.11	0.66
1:H:201:LEU:HD13	1:H:259:LEU:CD1	2.26	0.66
1:J:31:SER:OG	1:J:216:LYS:CE	2.43	0.66
1:A:188:ILE:CD1	1:C:42:ASP:OD1	2.44	0.65
1:H:188:ILE:CD1	1:J:42:ASP:OD1	2.44	0.65
1:J:60:ILE:HG12	1:J:216:LYS:HB3	1.68	0.65
1:K:36:TRP:NE1	1:K:54:GLN:HB2	2.11	0.65
1:L:36:TRP:NE1	1:L:54:GLN:HB2	2.11	0.65
1:C:23:ILE:HG12	1:C:316:TYR:CZ	2.31	0.65
1:F:23:ILE:HG12	1:F:316:TYR:CZ	2.31	0.65
1:F:62:PRO:HD2	1:F:215:THR:H	0.82	0.65
1:J:188:ILE:CD1	1:L:42:ASP:OD1	2.44	0.65
1:C:201:LEU:HD13	1:C:259:LEU:CD1	2.26	0.65
1:D:36:TRP:NE1	1:D:54:GLN:HB2	2.11	0.65
1:L:23:ILE:HD13	1:L:316:TYR:CE2	2.24	0.65
1:L:60:ILE:HG12	1:L:216:LYS:HB3	1.68	0.65
1:A:59:PRO:CA	1:A:217:GLY:HA2	2.23	0.65
1:E:31:SER:OG	1:E:216:LYS:CE	2.43	0.65
1:G:23:ILE:HD13	1:G:316:TYR:CE2	2.24	0.65
1:J:201:LEU:HD13	1:J:259:LEU:CD1	2.26	0.65
1:B:188:ILE:CD1	1:D:42:ASP:OD1	2.44	0.65
1:B:269:GLU:OE1	1:C:68:THR:OG1	2.15	0.65
1:E:36:TRP:NE1	1:E:54:GLN:HB2	2.11	0.65
1:I:36:TRP:NE1	1:I:54:GLN:HB2	2.11	0.65
1:J:23:ILE:HG12	1:J:316:TYR:CZ	2.31	0.65
1:C:188:ILE:CD1	1:E:42:ASP:OD1	2.44	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:60:ILE:C	1:D:216:LYS:N	2.19	0.65
1:F:201:LEU:HD13	1:F:259:LEU:CD1	2.26	0.65
1:I:201:LEU:HD13	1:I:259:LEU:CD1	2.26	0.65
1:A:23:ILE:HG12	1:A:316:TYR:CZ	2.31	0.65
1:B:23:ILE:HG12	1:B:316:TYR:CZ	2.31	0.65
1:B:36:TRP:NE1	1:B:54:GLN:HB2	2.11	0.65
1:D:59:PRO:CA	1:D:217:GLY:HA2	2.23	0.65
1:D:108:TYR:HA	1:F:40:PHE:N	2.12	0.65
1:E:23:ILE:HG12	1:E:316:TYR:CZ	2.31	0.65
1:L:201:LEU:HD13	1:L:259:LEU:CD1	2.26	0.65
1:B:201:LEU:HD13	1:B:259:LEU:CD1	2.26	0.65
1:G:269:GLU:OE1	1:H:68:THR:OG1	2.15	0.65
1:I:269:GLU:OE1	1:J:68:THR:OG1	2.15	0.65
1:A:60:ILE:HG13	1:A:216:LYS:HB3	0.72	0.65
1:C:115:ASN:CB	1:E:40:PHE:HE2	2.05	0.65
1:D:269:GLU:OE1	1:E:68:THR:OG1	2.15	0.65
1:F:108:TYR:HA	1:H:40:PHE:N	2.12	0.65
1:G:188:ILE:CD1	1:I:42:ASP:OD1	2.44	0.65
1:J:269:GLU:OE1	1:K:68:THR:OG1	2.15	0.65
1:K:201:LEU:HD13	1:K:259:LEU:CD1	2.26	0.65
1:A:108:TYR:HA	1:C:40:PHE:N	2.12	0.65
1:E:47:ASN:HD22	1:E:56:SER:HB3	1.62	0.65
1:G:36:TRP:NE1	1:G:54:GLN:HB2	2.11	0.65
1:H:23:ILE:HG12	1:H:316:TYR:CZ	2.31	0.65
1:I:110:ARG:N	1:K:38:VAL:HG11	2.02	0.65
1:A:62:PRO:HD2	1:A:215:THR:H	0.82	0.64
1:A:115:ASN:CB	1:C:40:PHE:HE2	2.06	0.64
1:E:269:GLU:OE1	1:F:68:THR:OG1	2.15	0.64
1:G:115:ASN:HB3	1:I:40:PHE:CE2	2.28	0.64
1:G:201:LEU:HD13	1:G:259:LEU:CD1	2.26	0.64
1:A:269:GLU:OE1	1:B:68:THR:OG1	2.15	0.64
1:F:60:ILE:HG13	1:F:216:LYS:HB3	0.72	0.64
1:G:108:TYR:HA	1:I:40:PHE:N	2.12	0.64
1:I:108:TYR:HA	1:K:40:PHE:N	2.12	0.64
1:K:23:ILE:CG1	1:K:316:TYR:CE2	2.81	0.64
1:K:47:ASN:HD22	1:K:56:SER:HB3	1.62	0.64
1:A:36:TRP:NE1	1:A:54:GLN:HB2	2.11	0.64
1:A:107:TYR:CD2	1:C:40:PHE:HB2	2.16	0.64
1:B:23:ILE:CG1	1:B:316:TYR:CE2	2.81	0.64
1:C:47:ASN:HD22	1:C:56:SER:HB3	1.62	0.64
1:E:23:ILE:CG1	1:E:316:TYR:CE2	2.81	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:115:ASN:CB	1:G:40:PHE:HE2	2.06	0.64
1:I:47:ASN:HD22	1:I:56:SER:HB3	1.62	0.64
1:B:62:PRO:HD2	1:B:215:THR:H	0.82	0.64
1:D:23:ILE:CG1	1:D:316:TYR:CE2	2.81	0.64
1:D:201:LEU:HD13	1:D:259:LEU:CD1	2.26	0.64
1:G:23:ILE:CG1	1:G:316:TYR:CE2	2.81	0.64
1:K:269:GLU:OE1	1:L:68:THR:OG1	2.15	0.64
1:L:23:ILE:HG12	1:L:316:TYR:CZ	2.31	0.64
1:B:108:TYR:HA	1:D:40:PHE:N	2.12	0.64
1:D:107:TYR:CZ	1:F:41:GLY:HA3	2.33	0.64
1:E:188:ILE:CD1	1:G:42:ASP:OD1	2.44	0.64
1:E:201:LEU:HD13	1:E:259:LEU:CD1	2.26	0.64
1:J:47:ASN:HD22	1:J:56:SER:HB3	1.62	0.64
1:B:107:TYR:CZ	1:D:41:GLY:HA3	2.33	0.64
1:E:108:TYR:HA	1:G:40:PHE:N	2.12	0.64
1:F:269:GLU:OE1	1:G:68:THR:OG1	2.15	0.64
1:E:37:ALA:H	1:E:47:ASN:ND2	1.95	0.64
1:F:23:ILE:CG1	1:F:316:TYR:CE2	2.81	0.64
1:F:107:TYR:CZ	1:H:41:GLY:HA3	2.33	0.64
1:I:23:ILE:CG1	1:I:316:TYR:CE2	2.81	0.64
1:J:59:PRO:CA	1:J:217:GLY:HA2	2.23	0.64
1:L:47:ASN:HD22	1:L:56:SER:HB3	1.62	0.64
1:D:112:ASN:HB3	1:F:43:LYS:NZ	0.62	0.64
1:H:108:TYR:HA	1:J:40:PHE:N	2.12	0.64
1:J:108:TYR:HA	1:L:40:PHE:N	2.12	0.64
1:B:115:ASN:CB	1:D:40:PHE:HE2	2.06	0.64
1:C:269:GLU:OE1	1:D:68:THR:OG1	2.15	0.64
1:F:115:ASN:CB	1:H:40:PHE:HE2	2.06	0.64
1:H:269:GLU:OE1	1:I:68:THR:OG1	2.15	0.64
1:C:36:TRP:NE1	1:C:54:GLN:HB2	2.11	0.64
1:E:107:TYR:CZ	1:G:41:GLY:HA3	2.33	0.64
1:H:47:ASN:HD22	1:H:56:SER:HB3	1.62	0.64
1:C:107:TYR:CZ	1:E:41:GLY:HA3	2.33	0.63
1:F:112:ASN:HB3	1:H:43:LYS:NZ	0.62	0.63
1:H:107:TYR:CZ	1:J:41:GLY:HA3	2.33	0.63
1:A:47:ASN:HD22	1:A:56:SER:HB3	1.62	0.63
1:C:108:TYR:HA	1:E:40:PHE:N	2.12	0.63
1:J:23:ILE:CG1	1:J:316:TYR:CE2	2.81	0.63
1:A:23:ILE:CG1	1:A:316:TYR:CE2	2.81	0.63
1:A:31:SER:HB3	1:A:58:ASP:O	1.99	0.63
1:C:23:ILE:CG1	1:C:316:TYR:CE2	2.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:31:SER:HB3	1:D:58:ASP:O	1.99	0.63
1:E:31:SER:HB3	1:E:58:ASP:O	1.99	0.63
1:H:23:ILE:CG1	1:H:316:TYR:CE2	2.81	0.63
1:B:47:ASN:HD22	1:B:56:SER:HB3	1.62	0.63
1:C:62:PRO:HD2	1:C:215:THR:H	0.81	0.63
1:C:112:ASN:CG	1:E:43:LYS:HZ2	1.71	0.63
1:G:59:PRO:CA	1:G:217:GLY:HA2	2.23	0.63
1:H:112:ASN:HB3	1:J:43:LYS:NZ	0.62	0.63
1:I:31:SER:HB3	1:I:58:ASP:O	1.99	0.63
1:I:107:TYR:CZ	1:K:41:GLY:HA3	2.33	0.63
1:J:31:SER:HB3	1:J:58:ASP:O	1.99	0.63
1:J:107:TYR:CZ	1:L:41:GLY:HA3	2.33	0.63
1:J:107:TYR:OH	1:L:41:GLY:HA3	1.99	0.63
1:L:23:ILE:CG1	1:L:316:TYR:CE2	2.81	0.63
1:D:115:ASN:CB	1:F:40:PHE:HE2	2.06	0.63
1:F:47:ASN:HD22	1:F:56:SER:HB3	1.62	0.63
1:A:107:TYR:CZ	1:C:41:GLY:HA3	2.33	0.63
1:G:47:ASN:HD22	1:G:56:SER:HB3	1.62	0.63
1:H:107:TYR:OH	1:J:41:GLY:HA3	1.99	0.63
1:K:31:SER:HB3	1:K:58:ASP:O	1.99	0.63
1:G:107:TYR:CZ	1:I:41:GLY:HA3	2.33	0.63
1:H:31:SER:HB3	1:H:58:ASP:O	1.99	0.63
1:I:124:ALA:O	1:I:127:ARG:HB2	1.99	0.63
1:A:60:ILE:HG12	1:A:216:LYS:HB3	1.68	0.62
1:B:37:ALA:H	1:B:47:ASN:ND2	1.95	0.62
1:C:60:ILE:HG12	1:C:216:LYS:HB3	1.68	0.62
1:E:112:ASN:HB3	1:G:43:LYS:NZ	0.62	0.62
1:F:107:TYR:OH	1:H:41:GLY:HA3	1.99	0.62
1:G:37:ALA:H	1:G:47:ASN:ND2	1.95	0.62
1:G:252:MET:O	1:G:256:LEU:HG	1.99	0.62
1:A:50:LEU:O	1:A:129:LYS:O	2.17	0.62
1:C:50:LEU:O	1:C:129:LYS:O	2.17	0.62
1:C:124:ALA:O	1:C:127:ARG:HB2	1.99	0.62
1:E:23:ILE:HD13	1:E:316:TYR:CE2	2.24	0.62
1:E:32:PHE:O	1:E:60:ILE:HD13	2.00	0.62
1:E:60:ILE:HG12	1:E:216:LYS:HB3	1.68	0.62
1:G:32:PHE:O	1:G:60:ILE:HD13	2.00	0.62
1:H:37:ALA:H	1:H:47:ASN:ND2	1.95	0.62
1:K:50:LEU:O	1:K:129:LYS:O	2.18	0.62
1:G:60:ILE:HG12	1:G:216:LYS:HB3	1.68	0.62
1:I:107:TYR:OH	1:K:41:GLY:HA3	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:107:TYR:OH	1:D:41:GLY:HA3	1.99	0.62
1:D:47:ASN:HD22	1:D:56:SER:HB3	1.62	0.62
1:D:107:TYR:OH	1:F:41:GLY:HA3	1.99	0.62
1:A:32:PHE:O	1:A:60:ILE:HD13	2.00	0.62
1:C:31:SER:HB3	1:C:58:ASP:O	1.99	0.62
1:C:32:PHE:O	1:C:60:ILE:HD13	2.00	0.62
1:E:124:ALA:O	1:E:127:ARG:HB2	1.99	0.62
1:I:252:MET:O	1:I:256:LEU:HG	1.99	0.62
1:L:31:SER:HB3	1:L:58:ASP:O	1.99	0.62
1:H:107:TYR:CE2	1:J:41:GLY:CA	2.83	0.62
1:J:32:PHE:O	1:J:60:ILE:HD13	2.00	0.62
1:L:32:PHE:O	1:L:60:ILE:HD13	2.00	0.62
1:L:124:ALA:O	1:L:127:ARG:HB2	1.99	0.62
1:B:107:TYR:CE2	1:D:41:GLY:CA	2.83	0.62
1:F:31:SER:HB3	1:F:58:ASP:O	1.99	0.62
1:F:50:LEU:O	1:F:129:LYS:O	2.18	0.62
1:G:31:SER:HB3	1:G:58:ASP:O	1.99	0.62
1:G:107:TYR:OH	1:I:41:GLY:HA3	1.99	0.62
1:H:23:ILE:HG12	1:H:316:TYR:HH	1.63	0.62
1:I:50:LEU:O	1:I:129:LYS:O	2.18	0.62
1:K:124:ALA:O	1:K:127:ARG:HB2	1.99	0.62
1:A:252:MET:O	1:A:256:LEU:HG	1.99	0.62
1:D:50:LEU:O	1:D:129:LYS:O	2.17	0.62
1:G:124:ALA:O	1:G:127:ARG:HB2	1.99	0.62
1:J:23:ILE:HD13	1:J:316:TYR:CE2	2.24	0.62
1:E:50:LEU:O	1:E:129:LYS:O	2.17	0.62
1:L:252:MET:O	1:L:256:LEU:HG	1.99	0.62
1:A:107:TYR:OH	1:C:41:GLY:HA3	1.99	0.62
1:B:124:ALA:O	1:B:127:ARG:HB2	1.99	0.62
1:B:252:MET:O	1:B:256:LEU:HG	1.99	0.62
1:E:107:TYR:OH	1:G:41:GLY:HA3	1.99	0.62
1:E:252:MET:O	1:E:256:LEU:HG	1.99	0.62
1:H:50:LEU:O	1:H:129:LYS:O	2.18	0.62
1:I:60:ILE:HG12	1:I:216:LYS:HB3	1.68	0.62
1:J:112:ASN:HB3	1:L:43:LYS:NZ	0.62	0.62
1:A:124:ALA:O	1:A:127:ARG:HB2	1.99	0.61
1:C:107:TYR:OH	1:E:41:GLY:HA3	1.99	0.61
1:E:60:ILE:N	1:E:217:GLY:CA	2.63	0.61
1:I:32:PHE:O	1:I:60:ILE:HD13	2.00	0.61
1:B:31:SER:HB3	1:B:58:ASP:O	1.99	0.61
1:E:112:ASN:CG	1:G:43:LYS:HZ2	1.71	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:37:ALA:H	1:D:47:ASN:ND2	1.95	0.61
1:K:32:PHE:O	1:K:60:ILE:HD13	2.00	0.61
1:H:124:ALA:O	1:H:127:ARG:HB2	1.99	0.61
1:J:50:LEU:O	1:J:129:LYS:O	2.18	0.61
1:J:60:ILE:O	1:J:215:THR:C	2.32	0.61
1:J:60:ILE:N	1:J:217:GLY:CA	2.63	0.61
1:C:252:MET:O	1:C:256:LEU:HG	1.99	0.61
1:D:32:PHE:O	1:D:60:ILE:HD13	2.00	0.61
1:G:50:LEU:O	1:G:129:LYS:O	2.18	0.61
1:J:37:ALA:H	1:J:47:ASN:ND2	1.95	0.61
1:J:124:ALA:O	1:J:127:ARG:HB2	1.99	0.61
1:F:124:ALA:O	1:F:127:ARG:HB2	1.99	0.61
1:H:32:PHE:O	1:H:60:ILE:HD13	2.00	0.61
1:L:50:LEU:O	1:L:129:LYS:O	2.18	0.61
1:B:50:LEU:O	1:B:129:LYS:O	2.18	0.61
1:F:37:ALA:H	1:F:47:ASN:ND2	1.95	0.61
1:K:252:MET:O	1:K:256:LEU:HG	1.99	0.61
1:D:252:MET:O	1:D:256:LEU:HG	1.99	0.61
1:F:32:PHE:O	1:F:60:ILE:HD13	2.00	0.61
1:F:252:MET:O	1:F:256:LEU:HG	1.99	0.61
1:H:252:MET:O	1:H:256:LEU:HG	2.00	0.61
1:B:23:ILE:CG2	1:B:316:TYR:CD2	2.84	0.61
1:D:124:ALA:O	1:D:127:ARG:HB2	1.99	0.61
1:H:23:ILE:HG12	1:H:316:TYR:CE2	2.36	0.61
1:K:23:ILE:CG2	1:K:316:TYR:CD2	2.84	0.61
1:K:23:ILE:HG12	1:K:316:TYR:CE2	2.36	0.61
1:D:23:ILE:HG12	1:D:316:TYR:CE2	2.36	0.61
1:E:23:ILE:HG12	1:E:316:TYR:CE2	2.36	0.61
1:J:252:MET:O	1:J:256:LEU:HG	1.99	0.61
1:C:23:ILE:HG12	1:C:316:TYR:CE2	2.36	0.60
1:I:112:ASN:HB3	1:K:43:LYS:NZ	0.62	0.60
1:C:23:ILE:HG12	1:C:316:TYR:HH	1.67	0.60
1:I:23:ILE:HG12	1:I:316:TYR:CE2	2.36	0.60
1:I:23:ILE:CG1	1:I:316:TYR:HE2	2.14	0.60
1:K:23:ILE:CG1	1:K:316:TYR:HE2	2.14	0.60
1:F:23:ILE:CG2	1:F:316:TYR:CD2	2.84	0.60
1:F:286:ILE:O	1:F:290:VAL:HG13	2.01	0.60
1:J:23:ILE:HG12	1:J:316:TYR:CE2	2.36	0.60
1:B:23:ILE:HG12	1:B:316:TYR:CE2	2.36	0.60
1:B:32:PHE:O	1:B:60:ILE:HD13	2.00	0.60
1:G:23:ILE:CG1	1:G:316:TYR:HE2	2.14	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:37:ALA:H	1:I:47:ASN:ND2	1.95	0.60
1:K:286:ILE:O	1:K:290:VAL:HG13	2.02	0.60
1:C:23:ILE:CG2	1:C:316:TYR:CD2	2.84	0.60
1:C:59:PRO:HB3	1:C:220:TYR:CD2	2.37	0.60
1:D:60:ILE:CG1	1:D:216:LYS:CB	2.40	0.60
1:D:286:ILE:O	1:D:290:VAL:HG13	2.01	0.60
1:E:23:ILE:CG2	1:E:316:TYR:CD2	2.84	0.60
1:E:107:TYR:HE2	1:G:41:GLY:CA	2.15	0.60
1:F:23:ILE:HG12	1:F:316:TYR:CE2	2.36	0.60
1:G:23:ILE:CG2	1:G:316:TYR:CD2	2.84	0.60
1:H:59:PRO:HB3	1:H:220:TYR:CD2	2.37	0.60
1:J:59:PRO:HB3	1:J:220:TYR:CD2	2.37	0.60
1:K:37:ALA:H	1:K:47:ASN:ND2	1.95	0.60
1:L:23:ILE:HG12	1:L:316:TYR:CE2	2.36	0.60
1:L:23:ILE:CG1	1:L:316:TYR:HE2	2.14	0.60
1:L:59:PRO:HB3	1:L:220:TYR:CD2	2.37	0.60
1:A:23:ILE:CG1	1:A:316:TYR:HE2	2.14	0.60
1:B:23:ILE:CG1	1:B:316:TYR:HE2	2.14	0.60
1:E:60:ILE:C	1:E:216:LYS:N	2.19	0.60
1:G:112:ASN:HB3	1:I:43:LYS:NZ	0.62	0.60
1:A:59:PRO:HB3	1:A:220:TYR:CD2	2.37	0.60
1:E:23:ILE:CG1	1:E:316:TYR:HE2	2.14	0.60
1:J:107:TYR:CD2	1:L:40:PHE:HB2	2.16	0.60
1:E:59:PRO:HB3	1:E:220:TYR:CD2	2.37	0.60
1:E:114:PRO:CD	1:G:39:SER:HG	1.16	0.60
1:I:286:ILE:O	1:I:290:VAL:HG13	2.01	0.60
1:J:23:ILE:CG2	1:J:316:TYR:CD2	2.84	0.60
1:L:286:ILE:O	1:L:290:VAL:HG13	2.01	0.60
1:A:23:ILE:HG12	1:A:316:TYR:CE2	2.36	0.60
1:A:23:ILE:HG21	1:A:316:TYR:CD2	2.37	0.60
1:C:23:ILE:HG21	1:C:316:TYR:CD2	2.37	0.60
1:C:107:TYR:HE2	1:E:41:GLY:CA	2.15	0.60
1:D:60:ILE:N	1:D:217:GLY:CA	2.63	0.60
1:F:112:ASN:CG	1:H:43:LYS:HZ2	1.67	0.60
1:J:107:TYR:HE2	1:L:41:GLY:CA	2.15	0.60
1:K:60:ILE:N	1:K:217:GLY:CA	2.63	0.60
1:K:70:ILE:H	1:K:70:ILE:HD12	1.67	0.60
1:A:125:ASN:OD1	1:A:128:LYS:HE2	2.02	0.59
1:B:112:ASN:HB3	1:D:43:LYS:NZ	0.62	0.59
1:B:286:ILE:O	1:B:290:VAL:HG13	2.02	0.59
1:F:59:PRO:HB3	1:F:220:TYR:CD2	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:107:TYR:CE2	1:I:41:GLY:CA	2.82	0.59
1:I:125:ASN:OD1	1:I:128:LYS:HE2	2.02	0.59
1:L:125:ASN:OD1	1:L:128:LYS:HE2	2.02	0.59
1:A:112:ASN:HB3	1:C:43:LYS:NZ	0.62	0.59
1:A:286:ILE:O	1:A:290:VAL:HG13	2.01	0.59
1:D:70:ILE:H	1:D:70:ILE:HD12	1.67	0.59
1:E:23:ILE:HG21	1:E:316:TYR:CD2	2.37	0.59
1:F:70:ILE:H	1:F:70:ILE:HD12	1.67	0.59
1:G:23:ILE:HG12	1:G:316:TYR:CE2	2.36	0.59
1:I:70:ILE:H	1:I:70:ILE:HD12	1.67	0.59
1:I:107:TYR:HE2	1:K:41:GLY:CA	2.15	0.59
1:K:125:ASN:OD1	1:K:128:LYS:HE2	2.02	0.59
1:C:125:ASN:OD1	1:C:128:LYS:HE2	2.02	0.59
1:D:23:ILE:CG1	1:D:316:TYR:HE2	2.14	0.59
1:F:107:TYR:CD2	1:H:40:PHE:HB2	2.16	0.59
1:H:70:ILE:HD12	1:H:70:ILE:H	1.67	0.59
1:H:112:ASN:HB2	1:J:43:LYS:HZ2	0.42	0.59
1:J:286:ILE:O	1:J:290:VAL:HG13	2.01	0.59
1:A:37:ALA:H	1:A:47:ASN:ND2	1.95	0.59
1:A:107:TYR:CE2	1:C:41:GLY:CA	2.82	0.59
1:B:125:ASN:OD1	1:B:128:LYS:HE2	2.02	0.59
1:D:107:TYR:HE2	1:F:41:GLY:HA3	1.66	0.59
1:G:112:ASN:CG	1:I:43:LYS:HZ3	1.89	0.59
1:I:59:PRO:HB3	1:I:220:TYR:CD2	2.37	0.59
1:B:23:ILE:HG21	1:B:316:TYR:CD2	2.37	0.59
1:B:70:ILE:H	1:B:70:ILE:HD12	1.67	0.59
1:B:107:TYR:HE2	1:D:41:GLY:CA	2.15	0.59
1:D:125:ASN:OD1	1:D:128:LYS:HE2	2.02	0.59
1:G:70:ILE:H	1:G:70:ILE:HD12	1.67	0.59
1:G:107:TYR:HE2	1:I:41:GLY:CA	2.15	0.59
1:J:125:ASN:OD1	1:J:128:LYS:HE2	2.02	0.59
1:C:23:ILE:CG1	1:C:316:TYR:HE2	2.14	0.59
1:D:23:ILE:HG21	1:D:316:TYR:CD2	2.37	0.59
1:F:107:TYR:HE2	1:H:41:GLY:CA	2.15	0.59
1:G:23:ILE:HG21	1:G:316:TYR:CD2	2.37	0.59
1:G:59:PRO:HB3	1:G:220:TYR:CD2	2.37	0.59
1:G:125:ASN:OD1	1:G:128:LYS:HE2	2.02	0.59
1:G:286:ILE:O	1:G:290:VAL:HG13	2.01	0.59
1:H:222:ALA:O	1:H:226:ILE:HG12	2.03	0.59
1:I:23:ILE:HG21	1:I:316:TYR:CD2	2.37	0.59
1:I:112:ASN:CG	1:K:43:LYS:HZ2	1.71	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:222:ALA:O	1:I:226:ILE:HG12	2.03	0.59
1:J:70:ILE:H	1:J:70:ILE:HD12	1.67	0.59
1:J:222:ALA:O	1:J:226:ILE:HG12	2.03	0.59
1:K:23:ILE:HG21	1:K:316:TYR:CD2	2.37	0.59
1:K:222:ALA:O	1:K:226:ILE:HG12	2.03	0.59
1:L:37:ALA:H	1:L:47:ASN:ND2	1.95	0.59
1:C:107:TYR:CE2	1:E:41:GLY:CA	2.83	0.59
1:C:286:ILE:O	1:C:290:VAL:HG13	2.02	0.59
1:F:125:ASN:OD1	1:F:128:LYS:HE2	2.02	0.59
1:G:222:ALA:O	1:G:226:ILE:HG12	2.03	0.59
1:H:23:ILE:CG2	1:H:316:TYR:CD2	2.84	0.59
1:L:23:ILE:HG21	1:L:316:TYR:CD2	2.37	0.59
1:L:222:ALA:O	1:L:226:ILE:HG12	2.03	0.59
1:D:59:PRO:HB3	1:D:220:TYR:CD2	2.37	0.59
1:F:222:ALA:O	1:F:226:ILE:HG12	2.03	0.59
1:G:112:ASN:CG	1:I:43:LYS:HZ2	1.73	0.59
1:A:23:ILE:CG2	1:A:316:TYR:CD2	2.84	0.59
1:B:59:PRO:HB3	1:B:220:TYR:CD2	2.37	0.59
1:D:23:ILE:CG2	1:D:316:TYR:CD2	2.84	0.59
1:F:23:ILE:CG1	1:F:316:TYR:HE2	2.14	0.59
1:F:60:ILE:N	1:F:217:GLY:CA	2.63	0.59
1:H:107:TYR:HE2	1:J:41:GLY:CA	2.15	0.59
1:H:286:ILE:O	1:H:290:VAL:HG13	2.02	0.59
1:J:23:ILE:CG1	1:J:316:TYR:HE2	2.14	0.59
1:L:23:ILE:CG2	1:L:316:TYR:CD2	2.84	0.59
1:A:17:GLN:HB2	1:A:316:TYR:HH	1.61	0.59
1:B:114:PRO:CD	1:D:39:SER:HG	1.16	0.59
1:C:37:ALA:H	1:C:47:ASN:ND2	1.95	0.59
1:E:70:ILE:HD12	1:E:70:ILE:H	1.67	0.59
1:E:222:ALA:O	1:E:226:ILE:HG12	2.03	0.59
1:D:222:ALA:O	1:D:226:ILE:HG12	2.03	0.58
1:E:286:ILE:O	1:E:290:VAL:HG13	2.01	0.58
1:G:16:TRP:C	1:G:316:TYR:CE1	2.77	0.58
1:L:70:ILE:H	1:L:70:ILE:HD12	1.67	0.58
1:A:16:TRP:C	1:A:316:TYR:CE1	2.77	0.58
1:H:23:ILE:HG21	1:H:316:TYR:CD2	2.37	0.58
1:J:23:ILE:HG21	1:J:316:TYR:CD2	2.37	0.58
1:L:60:ILE:CG1	1:L:216:LYS:CB	2.40	0.58
1:B:222:ALA:O	1:B:226:ILE:HG12	2.03	0.58
1:C:222:ALA:O	1:C:226:ILE:HG12	2.03	0.58
1:D:16:TRP:C	1:D:316:TYR:CE1	2.77	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:107:TYR:CE2	1:G:41:GLY:CA	2.82	0.58
1:E:125:ASN:OD1	1:E:128:LYS:HE2	2.02	0.58
1:F:112:ASN:HB2	1:H:43:LYS:HZ2	0.41	0.58
1:A:23:ILE:HG12	1:A:316:TYR:HH	1.65	0.58
1:C:16:TRP:C	1:C:316:TYR:CE1	2.77	0.58
1:C:70:ILE:H	1:C:70:ILE:HD12	1.67	0.58
1:F:16:TRP:C	1:F:316:TYR:CE1	2.77	0.58
1:F:23:ILE:HG21	1:F:316:TYR:CD2	2.37	0.58
1:H:23:ILE:CG1	1:H:316:TYR:HE2	2.14	0.58
1:I:23:ILE:CG2	1:I:316:TYR:CD2	2.84	0.58
1:K:59:PRO:HB3	1:K:220:TYR:CD2	2.37	0.58
1:A:107:TYR:HE2	1:C:41:GLY:CA	2.15	0.58
1:D:107:TYR:CD2	1:F:40:PHE:HB2	2.16	0.58
1:H:112:ASN:CG	1:J:43:LYS:HZ3	1.87	0.58
1:H:125:ASN:OD1	1:H:128:LYS:HE2	2.02	0.58
1:B:16:TRP:C	1:B:316:TYR:CE1	2.77	0.58
1:I:16:TRP:C	1:I:316:TYR:CE1	2.77	0.58
1:A:70:ILE:H	1:A:70:ILE:HD12	1.67	0.58
1:H:163:LEU:HD22	1:J:238:ARG:NE	2.18	0.58
1:L:16:TRP:C	1:L:316:TYR:CE1	2.77	0.58
1:A:60:ILE:O	1:A:215:THR:C	2.32	0.58
1:A:222:ALA:O	1:A:226:ILE:HG12	2.03	0.58
1:D:36:TRP:CD1	1:D:54:GLN:HB2	2.39	0.58
1:D:276:VAL:HG23	1:D:296:ILE:HG13	1.86	0.58
1:E:16:TRP:C	1:E:316:TYR:CE1	2.77	0.58
1:F:163:LEU:HD22	1:H:238:ARG:NE	2.18	0.58
1:H:16:TRP:C	1:H:316:TYR:CE1	2.77	0.58
1:B:60:ILE:CG1	1:B:216:LYS:CB	2.40	0.58
1:B:276:VAL:HG23	1:B:296:ILE:HG13	1.86	0.58
1:C:36:TRP:CD1	1:C:54:GLN:HB2	2.39	0.58
1:C:60:ILE:CG1	1:C:216:LYS:CB	2.40	0.58
1:F:36:TRP:CD1	1:F:54:GLN:HB2	2.39	0.58
1:G:163:LEU:HD22	1:I:238:ARG:NE	2.18	0.58
1:H:107:TYR:HE2	1:J:41:GLY:HA3	1.66	0.58
1:J:36:TRP:CD1	1:J:54:GLN:HB2	2.39	0.58
1:C:163:LEU:HD22	1:E:238:ARG:NE	2.18	0.57
1:E:36:TRP:CD1	1:E:54:GLN:HB2	2.39	0.57
1:F:276:VAL:HG23	1:F:296:ILE:HG13	1.86	0.57
1:J:163:LEU:HD22	1:L:238:ARG:NE	2.18	0.57
1:K:276:VAL:HG23	1:K:296:ILE:HG13	1.86	0.57
1:B:107:TYR:HE2	1:D:41:GLY:HA3	1.66	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:16:TRP:C	1:J:316:TYR:CE1	2.77	0.57
1:K:16:TRP:C	1:K:316:TYR:CE1	2.77	0.57
1:K:36:TRP:CD1	1:K:54:GLN:HB2	2.39	0.57
1:L:36:TRP:CD1	1:L:54:GLN:HB2	2.39	0.57
1:E:163:LEU:HD22	1:G:238:ARG:NE	2.18	0.57
1:H:107:TYR:CD2	1:J:40:PHE:HB2	2.16	0.57
1:I:210:LEU:HG	1:I:248:VAL:CG2	2.35	0.57
1:L:210:LEU:HG	1:L:248:VAL:CG2	2.35	0.57
1:A:36:TRP:CD1	1:A:54:GLN:HB2	2.39	0.57
1:A:112:ASN:HB2	1:C:43:LYS:HZ2	0.41	0.57
1:A:210:LEU:HG	1:A:248:VAL:CG2	2.35	0.57
1:C:112:ASN:CA	1:E:43:LYS:CE	2.64	0.57
1:H:60:ILE:O	1:H:215:THR:C	2.32	0.57
1:I:276:VAL:HG23	1:I:296:ILE:HG13	1.86	0.57
1:K:60:ILE:N	1:K:217:GLY:HA2	2.12	0.57
1:A:163:LEU:HD22	1:C:238:ARG:NE	2.18	0.57
1:D:36:TRP:CD1	1:D:47:ASN:HB3	2.40	0.57
1:D:163:LEU:HD22	1:F:238:ARG:NE	2.18	0.57
1:H:17:GLN:HB2	1:H:316:TYR:HH	1.63	0.57
1:I:36:TRP:CD1	1:I:54:GLN:HB2	2.39	0.57
1:J:36:TRP:CD1	1:J:47:ASN:HB3	2.40	0.57
1:K:60:ILE:O	1:K:215:THR:C	2.32	0.57
1:K:210:LEU:HG	1:K:248:VAL:CG2	2.35	0.57
1:B:163:LEU:HD22	1:D:238:ARG:NE	2.18	0.57
1:B:210:LEU:HG	1:B:248:VAL:CG2	2.35	0.57
1:G:276:VAL:HG23	1:G:296:ILE:HG13	1.86	0.57
1:H:276:VAL:HG23	1:H:296:ILE:HG13	1.86	0.57
1:I:163:LEU:HD22	1:K:238:ARG:NE	2.18	0.57
1:B:60:ILE:O	1:B:215:THR:C	2.32	0.57
1:C:36:TRP:CD1	1:C:47:ASN:HB3	2.40	0.57
1:C:112:ASN:HB3	1:E:43:LYS:NZ	0.62	0.57
1:C:210:LEU:O	1:C:211:SER:C	2.43	0.57
1:C:210:LEU:HG	1:C:248:VAL:CG2	2.35	0.57
1:D:210:LEU:HG	1:D:248:VAL:CG2	2.35	0.57
1:F:36:TRP:CD1	1:F:47:ASN:HB3	2.40	0.57
1:G:36:TRP:CD1	1:G:47:ASN:HB3	2.40	0.57
1:G:210:LEU:HG	1:G:248:VAL:CG2	2.35	0.57
1:H:274:THR:CB	1:J:240:ASN:HD21	2.17	0.57
1:J:210:LEU:HG	1:J:248:VAL:CG2	2.35	0.57
1:A:210:LEU:O	1:A:211:SER:C	2.43	0.57
1:K:36:TRP:CD1	1:K:47:ASN:HB3	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:210:LEU:O	1:L:211:SER:C	2.43	0.57
1:B:36:TRP:CD1	1:B:54:GLN:HB2	2.39	0.57
1:B:60:ILE:N	1:B:217:GLY:CA	2.63	0.57
1:B:102:LEU:C	1:B:103:PRO:N	2.59	0.57
1:E:36:TRP:CD1	1:E:47:ASN:HB3	2.40	0.57
1:F:210:LEU:HG	1:F:248:VAL:CG2	2.35	0.57
1:H:102:LEU:C	1:H:103:PRO:N	2.59	0.57
1:J:210:LEU:O	1:J:211:SER:C	2.43	0.57
1:E:276:VAL:HG23	1:E:296:ILE:HG13	1.86	0.56
1:J:276:VAL:HG23	1:J:296:ILE:HG13	1.86	0.56
1:B:112:ASN:CG	1:D:43:LYS:HZ2	1.72	0.56
1:F:1:MET:HE1	1:F:16:TRP:HB2	1.88	0.56
1:G:36:TRP:CD1	1:G:54:GLN:HB2	2.39	0.56
1:H:36:TRP:CD1	1:H:54:GLN:HB2	2.39	0.56
1:J:112:ASN:HB2	1:L:43:LYS:HZ2	0.40	0.56
1:J:274:THR:CB	1:L:240:ASN:HD21	2.17	0.56
1:A:274:THR:HG22	1:C:240:ASN:HD21	0.74	0.56
1:A:276:VAL:HG23	1:A:296:ILE:HG13	1.86	0.56
1:E:106:GLU:O	1:G:40:PHE:HE2	1.80	0.56
1:F:102:LEU:C	1:F:103:PRO:N	2.59	0.56
1:H:36:TRP:CD1	1:H:47:ASN:HB3	2.40	0.56
1:J:60:ILE:CG1	1:J:216:LYS:CB	2.40	0.56
1:L:36:TRP:CD1	1:L:47:ASN:HB3	2.40	0.56
1:A:36:TRP:CD1	1:A:47:ASN:HB3	2.40	0.56
1:C:276:VAL:HG23	1:C:296:ILE:HG13	1.86	0.56
1:D:107:TYR:HE2	1:F:41:GLY:CA	2.15	0.56
1:H:210:LEU:O	1:H:211:SER:C	2.43	0.56
1:H:210:LEU:HG	1:H:248:VAL:CG2	2.35	0.56
1:I:107:TYR:CD2	1:K:40:PHE:HB2	2.16	0.56
1:L:276:VAL:HG23	1:L:296:ILE:HG13	1.86	0.56
1:A:58:ASP:CG	1:A:60:ILE:HG23	2.26	0.56
1:C:58:ASP:CG	1:C:60:ILE:HG23	2.26	0.56
1:D:58:ASP:CG	1:D:60:ILE:HG23	2.26	0.56
1:E:210:LEU:HG	1:E:248:VAL:CG2	2.35	0.56
1:I:36:TRP:CD1	1:I:47:ASN:HB3	2.40	0.56
1:I:58:ASP:CG	1:I:60:ILE:HG23	2.26	0.56
1:J:58:ASP:CG	1:J:60:ILE:HG23	2.26	0.56
1:K:58:ASP:CG	1:K:60:ILE:HG23	2.26	0.56
1:L:58:ASP:CG	1:L:60:ILE:HG23	2.26	0.56
1:B:201:LEU:HD13	1:B:259:LEU:HD11	1.88	0.56
1:B:274:THR:HG22	1:D:240:ASN:HD21	0.74	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:60:ILE:CG1	1:E:216:LYS:CB	2.40	0.56
1:L:201:LEU:HD13	1:L:259:LEU:HD11	1.88	0.56
1:F:60:ILE:C	1:F:216:LYS:N	2.19	0.56
1:B:130:ILE:HG23	1:B:137:THR:HG21	1.88	0.56
1:E:201:LEU:HD13	1:E:259:LEU:HD11	1.88	0.56
1:F:107:TYR:CE2	1:H:41:GLY:CA	2.83	0.56
1:F:201:LEU:HD13	1:F:259:LEU:HD11	1.88	0.56
1:I:23:ILE:HG12	1:I:316:TYR:HH	1.71	0.56
1:I:201:LEU:HD13	1:I:259:LEU:HD11	1.88	0.56
1:K:130:ILE:HG23	1:K:137:THR:HG21	1.88	0.56
1:L:102:LEU:C	1:L:103:PRO:N	2.59	0.56
1:E:130:ILE:HG23	1:E:137:THR:HG21	1.88	0.56
1:F:111:ASN:O	1:H:37:ALA:HB1	2.06	0.56
1:H:58:ASP:CG	1:H:60:ILE:HG23	2.26	0.56
1:H:111:ASN:O	1:J:37:ALA:HB1	2.06	0.56
1:H:274:THR:HG22	1:J:240:ASN:HD21	0.74	0.56
1:I:274:THR:CB	1:K:240:ASN:HD21	2.17	0.56
1:J:201:LEU:HD13	1:J:259:LEU:HD11	1.88	0.56
1:K:60:ILE:CG1	1:K:216:LYS:CB	2.40	0.56
1:B:58:ASP:CG	1:B:60:ILE:HG23	2.26	0.55
1:F:130:ILE:HG23	1:F:137:THR:HG21	1.88	0.55
1:F:210:LEU:O	1:F:211:SER:C	2.43	0.55
1:G:130:ILE:HG23	1:G:137:THR:HG21	1.88	0.55
1:I:111:ASN:O	1:K:37:ALA:HB1	2.06	0.55
1:I:130:ILE:HG23	1:I:137:THR:HG21	1.88	0.55
1:B:36:TRP:CD1	1:B:47:ASN:HB3	2.40	0.55
1:C:201:LEU:HD13	1:C:259:LEU:HD11	1.88	0.55
1:D:112:ASN:HB3	1:F:43:LYS:HZ3	1.32	0.55
1:E:58:ASP:CG	1:E:60:ILE:HG23	2.26	0.55
1:H:13:LYS:HB3	1:H:312:VAL:CG1	2.37	0.55
1:H:60:ILE:CG1	1:H:216:LYS:CB	2.40	0.55
1:H:112:ASN:CA	1:J:43:LYS:CE	2.64	0.55
1:J:13:LYS:HB3	1:J:312:VAL:CG1	2.37	0.55
1:J:111:ASN:O	1:L:37:ALA:HB1	2.06	0.55
1:A:111:ASN:O	1:C:37:ALA:HB1	2.06	0.55
1:B:13:LYS:HB3	1:B:312:VAL:CG1	2.37	0.55
1:C:130:ILE:HG23	1:C:137:THR:HG21	1.88	0.55
1:D:130:ILE:HG23	1:D:137:THR:HG21	1.88	0.55
1:H:201:LEU:HD13	1:H:259:LEU:HD11	1.88	0.55
1:A:112:ASN:CA	1:C:43:LYS:CE	2.65	0.55
1:A:201:LEU:HD13	1:A:259:LEU:HD11	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:194:ASP:OD1	1:B:262:ARG:HD3	2.06	0.55
1:D:274:THR:HG22	1:F:240:ASN:HD21	0.74	0.55
1:F:58:ASP:CG	1:F:60:ILE:HG23	2.26	0.55
1:G:58:ASP:CG	1:G:60:ILE:HG23	2.26	0.55
1:H:130:ILE:HG23	1:H:137:THR:HG21	1.88	0.55
1:K:13:LYS:HB3	1:K:312:VAL:CG1	2.37	0.55
1:B:111:ASN:O	1:D:37:ALA:HB1	2.06	0.55
1:E:102:LEU:C	1:E:103:PRO:N	2.59	0.55
1:E:274:THR:HG22	1:G:240:ASN:HD21	0.74	0.55
1:C:111:ASN:O	1:E:37:ALA:HB1	2.06	0.55
1:C:194:ASP:OD1	1:C:262:ARG:HD3	2.06	0.55
1:G:102:LEU:C	1:G:103:PRO:N	2.59	0.55
1:G:111:ASN:O	1:I:37:ALA:HB1	2.06	0.55
1:I:13:LYS:HB3	1:I:312:VAL:CG1	2.37	0.55
1:D:102:LEU:C	1:D:103:PRO:N	2.59	0.55
1:D:111:ASN:O	1:F:37:ALA:HB1	2.06	0.55
1:G:112:ASN:HB2	1:I:43:LYS:CE	1.94	0.55
1:J:130:ILE:HG23	1:J:137:THR:HG21	1.88	0.55
1:K:201:LEU:HD13	1:K:259:LEU:HD11	1.88	0.55
1:A:13:LYS:HB3	1:A:312:VAL:CG1	2.37	0.55
1:A:102:LEU:C	1:A:103:PRO:N	2.59	0.55
1:A:130:ILE:HG23	1:A:137:THR:HG21	1.88	0.55
1:D:210:LEU:O	1:D:211:SER:C	2.43	0.55
1:F:107:TYR:HE2	1:H:41:GLY:HA3	1.66	0.55
1:F:194:ASP:OD1	1:F:262:ARG:HD3	2.06	0.55
1:H:106:GLU:O	1:J:40:PHE:HE2	1.80	0.55
1:I:112:ASN:CG	1:K:43:LYS:HZ3	1.90	0.55
1:I:274:THR:HG22	1:K:240:ASN:HD21	0.74	0.55
1:L:194:ASP:OD1	1:L:262:ARG:HD3	2.06	0.55
1:D:112:ASN:CG	1:F:43:LYS:HZ2	1.71	0.55
1:E:112:ASN:HB2	1:G:43:LYS:HZ2	0.38	0.55
1:E:194:ASP:OD1	1:E:262:ARG:HD3	2.06	0.55
1:F:13:LYS:HB3	1:F:312:VAL:CG1	2.37	0.55
1:G:13:LYS:HB3	1:G:312:VAL:CG1	2.37	0.55
1:G:274:THR:CB	1:I:240:ASN:HD21	2.17	0.55
1:K:210:LEU:O	1:K:211:SER:C	2.43	0.55
1:L:13:LYS:HB3	1:L:312:VAL:CG1	2.37	0.55
1:A:60:ILE:N	1:A:217:GLY:CA	2.63	0.55
1:D:13:LYS:HB3	1:D:312:VAL:CG1	2.37	0.55
1:G:210:LEU:O	1:G:211:SER:C	2.43	0.55
1:I:210:LEU:O	1:I:211:SER:C	2.43	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:130:ILE:HG23	1:L:137:THR:HG21	1.88	0.55
1:A:194:ASP:OD1	1:A:262:ARG:HD3	2.06	0.54
1:C:112:ASN:HB2	1:E:43:LYS:HZ2	0.37	0.54
1:E:13:LYS:HB3	1:E:312:VAL:CG1	2.37	0.54
1:G:60:ILE:CG1	1:G:216:LYS:CB	2.40	0.54
1:E:60:ILE:O	1:E:215:THR:C	2.32	0.54
1:K:102:LEU:C	1:K:103:PRO:N	2.59	0.54
1:C:1:MET:HE1	1:C:16:TRP:HB2	1.87	0.54
1:C:102:LEU:C	1:C:103:PRO:N	2.59	0.54
1:D:201:LEU:HD13	1:D:259:LEU:HD11	1.88	0.54
1:I:112:ASN:HB2	1:K:43:LYS:CE	1.94	0.54
1:J:102:LEU:C	1:J:103:PRO:N	2.59	0.54
1:C:106:GLU:O	1:E:40:PHE:HE2	1.80	0.54
1:E:111:ASN:O	1:G:37:ALA:HB1	2.06	0.54
1:H:194:ASP:OD1	1:H:262:ARG:HD3	2.06	0.54
1:I:60:ILE:O	1:I:215:THR:C	2.32	0.54
1:I:102:LEU:C	1:I:103:PRO:N	2.59	0.54
1:I:112:ASN:HB2	1:K:43:LYS:HZ2	0.37	0.54
1:I:194:ASP:OD1	1:I:262:ARG:HD3	2.06	0.54
1:B:112:ASN:HB2	1:D:43:LYS:HZ2	0.37	0.54
1:B:210:LEU:O	1:B:211:SER:C	2.43	0.54
1:C:13:LYS:HB3	1:C:312:VAL:CG1	2.37	0.54
1:E:210:LEU:O	1:E:211:SER:C	2.43	0.54
1:E:274:THR:CB	1:G:240:ASN:HD21	2.17	0.54
1:G:112:ASN:HB2	1:I:43:LYS:HZ2	0.38	0.54
1:J:194:ASP:OD1	1:J:262:ARG:HD3	2.06	0.54
1:K:194:ASP:OD1	1:K:262:ARG:HD3	2.06	0.54
1:E:112:ASN:HB2	1:G:43:LYS:CE	1.94	0.54
1:F:60:ILE:O	1:F:215:THR:C	2.32	0.54
1:G:60:ILE:N	1:G:217:GLY:CA	2.63	0.54
1:I:60:ILE:CG1	1:I:216:LYS:CB	2.40	0.54
1:B:70:ILE:HD12	1:B:70:ILE:N	2.23	0.54
1:D:112:ASN:HB2	1:F:43:LYS:HZ2	0.37	0.54
1:F:274:THR:HG22	1:H:240:ASN:HD21	0.74	0.54
1:G:1:MET:HE1	1:G:16:TRP:HB2	1.88	0.54
1:G:201:LEU:HD13	1:G:259:LEU:HD11	1.88	0.54
1:I:1:MET:HE1	1:I:16:TRP:HB2	1.88	0.54
1:J:70:ILE:HD12	1:J:70:ILE:N	2.23	0.54
1:F:70:ILE:HD12	1:F:70:ILE:N	2.23	0.54
1:G:1:MET:CE	1:G:16:TRP:HB2	2.38	0.54
1:K:70:ILE:HD12	1:K:70:ILE:N	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:274:THR:CB	1:C:240:ASN:HD21	2.17	0.54
1:B:1:MET:CE	1:B:16:TRP:HB2	2.38	0.54
1:C:274:THR:CB	1:E:240:ASN:HD21	2.17	0.54
1:D:194:ASP:OD1	1:D:262:ARG:HD3	2.06	0.54
1:G:60:ILE:O	1:G:215:THR:C	2.32	0.54
1:I:110:ARG:CD	1:K:35:GLU:OE2	2.54	0.54
1:L:70:ILE:HD12	1:L:70:ILE:N	2.23	0.54
1:B:1:MET:HE1	1:B:16:TRP:HB2	1.89	0.54
1:F:111:ASN:H	1:H:38:VAL:HG22	1.73	0.54
1:G:194:ASP:OD1	1:G:262:ARG:HD3	2.06	0.54
1:H:1:MET:CE	1:H:16:TRP:HB2	2.38	0.54
1:J:106:GLU:O	1:L:40:PHE:HE2	1.80	0.54
1:A:70:ILE:HD12	1:A:70:ILE:N	2.23	0.53
1:C:60:ILE:N	1:C:217:GLY:CA	2.63	0.53
1:D:111:ASN:H	1:F:38:VAL:HG22	1.74	0.53
1:E:1:MET:CE	1:E:16:TRP:HB2	2.38	0.53
1:F:1:MET:CE	1:F:16:TRP:HB2	2.38	0.53
1:F:60:ILE:CG1	1:F:216:LYS:CB	2.40	0.53
1:C:60:ILE:O	1:C:215:THR:C	2.32	0.53
1:C:274:THR:HG22	1:E:240:ASN:HD21	0.74	0.53
1:E:111:ASN:H	1:G:38:VAL:HG22	1.74	0.53
1:H:70:ILE:HD12	1:H:70:ILE:N	2.23	0.53
1:H:111:ASN:H	1:J:38:VAL:HG22	1.74	0.53
1:J:1:MET:CE	1:J:16:TRP:HB2	2.38	0.53
1:L:60:ILE:N	1:L:217:GLY:CA	2.63	0.53
1:B:31:SER:HA	1:B:216:LYS:HG2	1.91	0.53
1:B:111:ASN:H	1:D:38:VAL:HG22	1.73	0.53
1:D:70:ILE:HD12	1:D:70:ILE:N	2.23	0.53
1:G:111:ASN:H	1:I:38:VAL:HG22	1.74	0.53
1:J:111:ASN:H	1:L:38:VAL:HG22	1.73	0.53
1:C:111:ASN:H	1:E:38:VAL:HG22	1.74	0.53
1:D:1:MET:HE1	1:D:16:TRP:HB2	1.89	0.53
1:F:31:SER:HA	1:F:216:LYS:HG2	1.91	0.53
1:A:1:MET:CE	1:A:16:TRP:HB2	2.38	0.53
1:H:31:SER:HA	1:H:216:LYS:HG2	1.91	0.53
1:I:70:ILE:HD12	1:I:70:ILE:N	2.23	0.53
1:C:229:ARG:NH1	1:C:284:GLU:OE2	2.41	0.53
1:D:31:SER:HA	1:D:216:LYS:HG2	1.91	0.53
1:K:1:MET:CE	1:K:16:TRP:HB2	2.38	0.53
1:K:31:SER:HA	1:K:216:LYS:HG2	1.91	0.53
1:A:111:ASN:H	1:C:38:VAL:HG22	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:229:ARG:NH1	1:A:284:GLU:OE2	2.41	0.53
1:C:70:ILE:HD12	1:C:70:ILE:N	2.23	0.53
1:E:175:THR:HG22	1:E:195:SER:HA	1.91	0.53
1:G:70:ILE:HD12	1:G:70:ILE:N	2.23	0.53
1:I:1:MET:CE	1:I:16:TRP:HB2	2.38	0.53
1:I:229:ARG:NH1	1:I:284:GLU:OE2	2.41	0.53
1:J:299:GLU:H	1:J:299:GLU:CD	2.12	0.53
1:A:1:MET:HE1	1:A:16:TRP:HB2	1.90	0.53
1:G:229:ARG:NH1	1:G:284:GLU:OE2	2.41	0.53
1:A:106:GLU:O	1:C:40:PHE:HE2	1.80	0.53
1:A:299:GLU:H	1:A:299:GLU:CD	2.12	0.53
1:D:1:MET:CE	1:D:16:TRP:HB2	2.38	0.53
1:E:112:ASN:CG	1:G:43:LYS:HZ3	1.90	0.53
1:J:68:THR:HG22	1:J:69:ASN:N	2.24	0.53
1:K:299:GLU:CD	1:K:299:GLU:H	2.12	0.53
1:B:274:THR:CB	1:D:240:ASN:HD21	2.17	0.53
1:G:68:THR:HG22	1:G:69:ASN:N	2.24	0.53
1:J:31:SER:HA	1:J:216:LYS:HG2	1.91	0.53
1:B:299:GLU:H	1:B:299:GLU:CD	2.12	0.52
1:D:68:THR:HG22	1:D:69:ASN:N	2.25	0.52
1:E:1:MET:HE1	1:E:16:TRP:HB2	1.90	0.52
1:E:68:THR:HG22	1:E:69:ASN:N	2.24	0.52
1:I:31:SER:HA	1:I:216:LYS:HG2	1.91	0.52
1:K:23:ILE:HG12	1:K:316:TYR:HH	1.71	0.52
1:K:68:THR:HG22	1:K:69:ASN:N	2.24	0.52
1:L:1:MET:CE	1:L:16:TRP:HB2	2.38	0.52
1:A:68:THR:HG22	1:A:69:ASN:N	2.24	0.52
1:B:68:THR:HG22	1:B:69:ASN:N	2.24	0.52
1:B:210:LEU:O	1:B:212:LEU:HB2	2.10	0.52
1:C:68:THR:HG22	1:C:69:ASN:N	2.24	0.52
1:C:175:THR:HG22	1:C:195:SER:HA	1.91	0.52
1:F:68:THR:HG22	1:F:69:ASN:N	2.24	0.52
1:G:110:ARG:CD	1:I:35:GLU:OE2	2.54	0.52
1:G:175:THR:HG22	1:G:195:SER:HA	1.91	0.52
1:I:68:THR:HG22	1:I:69:ASN:N	2.24	0.52
1:I:210:LEU:O	1:I:212:LEU:HB2	2.10	0.52
1:I:299:GLU:H	1:I:299:GLU:CD	2.12	0.52
1:J:210:LEU:O	1:J:212:LEU:HB2	2.10	0.52
1:J:274:THR:HG22	1:L:240:ASN:HD21	0.74	0.52
1:L:60:ILE:O	1:L:215:THR:C	2.32	0.52
1:L:210:LEU:O	1:L:212:LEU:HB2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:13:LYS:HG2	1:A:309:TYR:CD2	2.45	0.52
1:C:210:LEU:O	1:C:212:LEU:HB2	2.10	0.52
1:F:111:ASN:H	1:H:38:VAL:HG13	1.74	0.52
1:F:175:THR:HG22	1:F:195:SER:HA	1.91	0.52
1:F:210:LEU:O	1:F:212:LEU:HB2	2.10	0.52
1:H:111:ASN:H	1:J:38:VAL:HG13	1.74	0.52
1:A:111:ASN:H	1:C:38:VAL:HG13	1.75	0.52
1:B:13:LYS:HG2	1:B:309:TYR:CD2	2.45	0.52
1:B:17:GLN:HB2	1:B:316:TYR:HH	1.69	0.52
1:D:175:THR:HG22	1:D:195:SER:HA	1.91	0.52
1:D:274:THR:CB	1:F:240:ASN:HD21	2.17	0.52
1:E:70:ILE:HD12	1:E:70:ILE:N	2.23	0.52
1:F:13:LYS:HG2	1:F:309:TYR:CD2	2.45	0.52
1:G:13:LYS:HG2	1:G:309:TYR:CD2	2.45	0.52
1:G:210:LEU:O	1:G:212:LEU:HB2	2.09	0.52
1:H:13:LYS:HG2	1:H:309:TYR:CD2	2.45	0.52
1:H:68:THR:HG22	1:H:69:ASN:N	2.24	0.52
1:H:175:THR:HG22	1:H:195:SER:HA	1.91	0.52
1:H:299:GLU:CD	1:H:299:GLU:H	2.12	0.52
1:L:13:LYS:HG2	1:L:309:TYR:CD2	2.45	0.52
1:D:111:ASN:H	1:F:38:VAL:HG13	1.74	0.52
1:E:13:LYS:HG2	1:E:309:TYR:CD2	2.45	0.52
1:J:13:LYS:HG2	1:J:309:TYR:CD2	2.45	0.52
1:K:229:ARG:NH1	1:K:284:GLU:OE2	2.41	0.52
1:C:111:ASN:H	1:E:38:VAL:HG13	1.74	0.52
1:C:299:GLU:CD	1:C:299:GLU:H	2.12	0.52
1:J:111:ASN:H	1:L:38:VAL:HG13	1.74	0.52
1:K:175:THR:HG22	1:K:195:SER:HA	1.91	0.52
1:B:111:ASN:H	1:D:38:VAL:HG13	1.75	0.52
1:D:210:LEU:O	1:D:212:LEU:HB2	2.10	0.52
1:E:229:ARG:NH1	1:E:284:GLU:OE2	2.41	0.52
1:F:110:ARG:CD	1:H:35:GLU:OE2	2.54	0.52
1:B:112:ASN:CG	1:D:43:LYS:HZ3	1.90	0.52
1:C:1:MET:CE	1:C:16:TRP:HB2	2.38	0.52
1:E:210:LEU:O	1:E:212:LEU:HB2	2.10	0.52
1:L:31:SER:HA	1:L:216:LYS:HG2	1.91	0.52
1:L:229:ARG:NH1	1:L:284:GLU:OE2	2.41	0.52
1:B:175:THR:HG22	1:B:195:SER:HA	1.91	0.52
1:C:31:SER:HA	1:C:216:LYS:HG2	1.91	0.52
1:E:31:SER:HA	1:E:216:LYS:HG2	1.91	0.52
1:E:111:ASN:H	1:G:38:VAL:HG13	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:274:THR:HG22	1:I:240:ASN:HD21	0.74	0.52
1:H:210:LEU:O	1:H:212:LEU:HB2	2.10	0.52
1:L:68:THR:HG22	1:L:69:ASN:N	2.24	0.52
1:L:299:GLU:H	1:L:299:GLU:CD	2.12	0.52
1:A:31:SER:HA	1:A:216:LYS:HG2	1.91	0.52
1:D:110:ARG:CD	1:F:35:GLU:OE2	2.54	0.52
1:D:299:GLU:H	1:D:299:GLU:CD	2.12	0.52
1:E:299:GLU:CD	1:E:299:GLU:H	2.12	0.52
1:F:299:GLU:CD	1:F:299:GLU:H	2.12	0.52
1:G:31:SER:HA	1:G:216:LYS:HG2	1.91	0.52
1:H:110:ARG:CD	1:J:35:GLU:OE2	2.54	0.52
1:J:175:THR:HG22	1:J:195:SER:HA	1.91	0.52
1:F:47:ASN:ND2	1:F:56:SER:HB3	2.25	0.51
1:F:274:THR:CB	1:H:240:ASN:HD21	2.17	0.51
1:I:13:LYS:HG2	1:I:309:TYR:CD2	2.45	0.51
1:I:130:ILE:CG2	1:I:137:THR:HG21	2.41	0.51
1:J:130:ILE:CG2	1:J:137:THR:HG21	2.41	0.51
1:C:130:ILE:CG2	1:C:137:THR:HG21	2.41	0.51
1:E:262:ARG:HH11	1:F:34:ARG:NE	2.08	0.51
1:G:111:ASN:H	1:I:38:VAL:HG13	1.74	0.51
1:I:175:THR:HG22	1:I:195:SER:HA	1.91	0.51
1:K:13:LYS:HG2	1:K:309:TYR:CD2	2.45	0.51
1:K:210:LEU:O	1:K:212:LEU:HB2	2.09	0.51
1:K:253:ASN:HD22	1:K:253:ASN:N	2.08	0.51
1:A:47:ASN:ND2	1:A:56:SER:HB3	2.26	0.51
1:B:47:ASN:ND2	1:B:56:SER:HB3	2.26	0.51
1:D:13:LYS:HG2	1:D:309:TYR:CD2	2.45	0.51
1:F:110:ARG:C	1:H:38:VAL:HG22	2.31	0.51
1:H:110:ARG:C	1:J:38:VAL:HG22	2.31	0.51
1:I:253:ASN:HD22	1:I:253:ASN:N	2.08	0.51
1:J:47:ASN:ND2	1:J:56:SER:HB3	2.26	0.51
1:K:130:ILE:CG2	1:K:137:THR:HG21	2.41	0.51
1:C:13:LYS:HG2	1:C:309:TYR:CD2	2.45	0.51
1:D:130:ILE:CG2	1:D:137:THR:HG21	2.41	0.51
1:G:107:TYR:CD2	1:I:40:PHE:HB2	2.16	0.51
1:I:31:SER:CB	1:I:216:LYS:HG2	2.41	0.51
1:I:111:ASN:H	1:K:38:VAL:HG13	1.74	0.51
1:A:262:ARG:HH11	1:B:34:ARG:NE	2.08	0.51
1:E:23:ILE:HG12	1:E:316:TYR:HH	1.74	0.51
1:J:110:ARG:C	1:L:38:VAL:HG22	2.31	0.51
1:A:210:LEU:O	1:A:212:LEU:HB2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:262:ARG:HH11	1:C:34:ARG:NE	2.08	0.51
1:C:112:ASN:HB2	1:E:43:LYS:CE	1.94	0.51
1:D:110:ARG:C	1:F:38:VAL:HG22	2.31	0.51
1:E:110:ARG:CD	1:G:35:GLU:OE2	2.54	0.51
1:F:112:ASN:ND2	1:H:43:LYS:HZ3	2.05	0.51
1:I:316:TYR:O	1:I:320:ASN:HB2	2.11	0.51
1:L:47:ASN:ND2	1:L:56:SER:HB3	2.25	0.51
1:L:130:ILE:CG2	1:L:137:THR:HG21	2.41	0.51
1:A:130:ILE:CG2	1:A:137:THR:HG21	2.41	0.51
1:A:175:THR:HG22	1:A:195:SER:HA	1.91	0.51
1:C:31:SER:CB	1:C:216:LYS:HG2	2.41	0.51
1:E:130:ILE:CG2	1:E:137:THR:HG21	2.41	0.51
1:F:244:LYS:O	1:F:248:VAL:HG23	2.11	0.51
1:G:31:SER:CB	1:G:216:LYS:HG2	2.40	0.51
1:I:60:ILE:N	1:I:217:GLY:CA	2.63	0.51
1:J:110:ARG:CD	1:L:35:GLU:OE2	2.54	0.51
1:B:130:ILE:CG2	1:B:137:THR:HG21	2.41	0.51
1:E:316:TYR:O	1:E:320:ASN:HB2	2.11	0.51
1:F:130:ILE:CG2	1:F:137:THR:HG21	2.41	0.51
1:G:253:ASN:N	1:G:253:ASN:HD22	2.08	0.51
1:G:299:GLU:H	1:G:299:GLU:CD	2.12	0.51
1:K:31:SER:CB	1:K:216:LYS:HG2	2.40	0.51
1:K:244:LYS:O	1:K:248:VAL:HG23	2.11	0.51
1:L:175:THR:HG22	1:L:195:SER:HA	1.91	0.51
1:C:262:ARG:HH11	1:D:34:ARG:NE	2.08	0.51
1:C:316:TYR:O	1:C:320:ASN:HB2	2.11	0.51
1:D:262:ARG:CA	1:E:34:ARG:HH22	2.24	0.51
1:G:110:ARG:C	1:I:38:VAL:HG22	2.31	0.51
1:G:130:ILE:CG2	1:G:137:THR:HG21	2.41	0.51
1:H:47:ASN:ND2	1:H:56:SER:HB3	2.26	0.51
1:H:130:ILE:CG2	1:H:137:THR:HG21	2.41	0.51
1:H:244:LYS:O	1:H:248:VAL:HG23	2.11	0.51
1:H:316:TYR:O	1:H:320:ASN:HB2	2.11	0.51
1:J:229:ARG:NH1	1:J:284:GLU:OE2	2.41	0.51
1:K:1:MET:HE1	1:K:16:TRP:HB2	1.91	0.51
1:K:47:ASN:ND2	1:K:56:SER:HB3	2.26	0.51
1:B:244:LYS:O	1:B:248:VAL:HG23	2.11	0.51
1:D:244:LYS:O	1:D:248:VAL:HG23	2.11	0.51
1:E:262:ARG:CA	1:F:34:ARG:HH22	2.24	0.51
1:G:244:LYS:O	1:G:248:VAL:HG23	2.11	0.51
1:G:262:ARG:CA	1:H:34:ARG:HH22	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:262:ARG:CA	1:K:34:ARG:HH22	2.24	0.51
1:A:31:SER:CB	1:A:216:LYS:HG2	2.41	0.50
1:B:110:ARG:C	1:D:38:VAL:HG22	2.31	0.50
1:D:47:ASN:ND2	1:D:56:SER:HB3	2.25	0.50
1:F:253:ASN:HD22	1:F:253:ASN:N	2.08	0.50
1:H:229:ARG:NH1	1:H:284:GLU:OE2	2.41	0.50
1:A:262:ARG:CA	1:B:34:ARG:HH22	2.24	0.50
1:E:47:ASN:ND2	1:E:56:SER:HB3	2.26	0.50
1:E:244:LYS:O	1:E:248:VAL:HG23	2.11	0.50
1:G:47:ASN:ND2	1:G:56:SER:HB3	2.26	0.50
1:J:253:ASN:HD22	1:J:253:ASN:N	2.08	0.50
1:K:250:GLU:HG3	1:K:251:ALA:N	2.26	0.50
1:A:110:ARG:C	1:C:38:VAL:HG22	2.31	0.50
1:B:31:SER:CB	1:B:216:LYS:HG2	2.40	0.50
1:B:229:ARG:NH1	1:B:284:GLU:OE2	2.41	0.50
1:B:250:GLU:HG3	1:B:251:ALA:N	2.26	0.50
1:B:262:ARG:CA	1:C:34:ARG:HH22	2.24	0.50
1:E:110:ARG:C	1:G:38:VAL:HG22	2.31	0.50
1:F:316:TYR:O	1:F:320:ASN:HB2	2.11	0.50
1:I:110:ARG:C	1:K:38:VAL:HG22	2.31	0.50
1:I:262:ARG:CA	1:J:34:ARG:HH22	2.24	0.50
1:K:316:TYR:O	1:K:320:ASN:HB2	2.11	0.50
1:L:253:ASN:HD22	1:L:253:ASN:N	2.08	0.50
1:A:250:GLU:HG3	1:A:251:ALA:N	2.26	0.50
1:B:110:ARG:CD	1:D:35:GLU:OE2	2.54	0.50
1:D:229:ARG:NH1	1:D:284:GLU:OE2	2.41	0.50
1:E:31:SER:CB	1:E:216:LYS:HG2	2.40	0.50
1:E:253:ASN:HD22	1:E:253:ASN:N	2.08	0.50
1:F:229:ARG:NH1	1:F:284:GLU:OE2	2.41	0.50
1:F:262:ARG:CA	1:G:34:ARG:HH22	2.24	0.50
1:J:60:ILE:C	1:J:216:LYS:N	2.19	0.50
1:L:244:LYS:O	1:L:248:VAL:HG23	2.11	0.50
1:A:244:LYS:O	1:A:248:VAL:HG23	2.11	0.50
1:B:253:ASN:HD22	1:B:253:ASN:N	2.08	0.50
1:B:316:TYR:O	1:B:320:ASN:HB2	2.11	0.50
1:E:17:GLN:CG	1:E:316:TYR:OH	2.60	0.50
1:E:202:VAL:HG12	1:E:226:ILE:HD12	1.94	0.50
1:G:250:GLU:HG3	1:G:251:ALA:N	2.26	0.50
1:G:316:TYR:O	1:G:320:ASN:HB2	2.11	0.50
1:J:112:ASN:CG	1:L:43:LYS:HZ3	1.87	0.50
1:L:1:MET:HE1	1:L:16:TRP:HB2	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:60:ILE:CG1	1:A:216:LYS:CB	2.40	0.50
1:A:112:ASN:CG	1:C:43:LYS:HZ3	1.87	0.50
1:C:110:ARG:CD	1:E:35:GLU:OE2	2.54	0.50
1:D:250:GLU:HG3	1:D:251:ALA:N	2.26	0.50
1:G:15:GLN:CB	1:G:316:TYR:HB2	2.42	0.50
1:H:253:ASN:HD22	1:H:253:ASN:N	2.08	0.50
1:I:17:GLN:CG	1:I:316:TYR:OH	2.60	0.50
1:I:244:LYS:O	1:I:248:VAL:HG23	2.11	0.50
1:J:31:SER:CB	1:J:216:LYS:HG2	2.40	0.50
1:L:316:TYR:O	1:L:320:ASN:HB2	2.11	0.50
1:B:176:LEU:HD21	1:B:263:VAL:HG12	1.94	0.50
1:C:17:GLN:CG	1:C:316:TYR:OH	2.59	0.50
1:E:15:GLN:CB	1:E:316:TYR:HB2	2.42	0.50
1:F:17:GLN:CG	1:F:316:TYR:OH	2.60	0.50
1:H:262:ARG:HH11	1:I:34:ARG:NE	2.08	0.50
1:I:15:GLN:CB	1:I:316:TYR:HB2	2.42	0.50
1:J:316:TYR:O	1:J:320:ASN:HB2	2.11	0.50
1:K:17:GLN:CG	1:K:316:TYR:OH	2.60	0.50
1:D:31:SER:CB	1:D:216:LYS:HG2	2.41	0.50
1:G:202:VAL:HG12	1:G:226:ILE:HD12	1.94	0.50
1:H:17:GLN:CG	1:H:316:TYR:OH	2.60	0.50
1:H:262:ARG:CA	1:I:34:ARG:HH22	2.24	0.50
1:I:164:ASP:HB3	1:I:274:THR:OG1	2.12	0.50
1:J:107:TYR:HE2	1:L:41:GLY:HA3	1.66	0.50
1:K:202:VAL:HG12	1:K:226:ILE:HD12	1.94	0.50
1:L:31:SER:CB	1:L:216:LYS:HG2	2.40	0.50
1:A:316:TYR:O	1:A:320:ASN:HB2	2.11	0.50
1:C:164:ASP:HB3	1:C:274:THR:OG1	2.12	0.50
1:D:253:ASN:HD22	1:D:253:ASN:N	2.08	0.50
1:D:262:ARG:HH11	1:E:34:ARG:NE	2.08	0.50
1:H:31:SER:CB	1:H:216:LYS:HG2	2.41	0.50
1:H:99:VAL:HG13	1:H:144:LYS:HB2	1.94	0.50
1:I:176:LEU:HD21	1:I:263:VAL:HG12	1.94	0.50
1:I:250:GLU:HG3	1:I:251:ALA:N	2.26	0.50
1:I:262:ARG:HH11	1:J:34:ARG:NE	2.08	0.50
1:J:262:ARG:HH11	1:K:34:ARG:NE	2.08	0.50
1:A:110:ARG:CD	1:C:35:GLU:OE2	2.54	0.49
1:C:15:GLN:CB	1:C:316:TYR:HB2	2.42	0.49
1:C:262:ARG:CA	1:D:34:ARG:HH22	2.24	0.49
1:F:31:SER:CB	1:F:216:LYS:HG2	2.41	0.49
1:F:250:GLU:HG3	1:F:251:ALA:N	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:27:ILE:HD11	1:I:308:GLN:HE22	1.74	0.49
1:I:114:PRO:HD2	1:K:39:SER:HG	0.59	0.49
1:J:164:ASP:HB3	1:J:274:THR:OG1	2.12	0.49
1:J:250:GLU:HG3	1:J:251:ALA:N	2.26	0.49
1:K:15:GLN:CB	1:K:316:TYR:HB2	2.42	0.49
1:K:99:VAL:HG13	1:K:144:LYS:HB2	1.94	0.49
1:K:262:ARG:HH11	1:L:34:ARG:NE	2.08	0.49
1:L:15:GLN:CB	1:L:316:TYR:HB2	2.42	0.49
1:B:17:GLN:CG	1:B:316:TYR:OH	2.60	0.49
1:B:112:ASN:HB2	1:D:43:LYS:CE	1.94	0.49
1:B:164:ASP:HB3	1:B:274:THR:OG1	2.12	0.49
1:C:47:ASN:ND2	1:C:56:SER:HB3	2.26	0.49
1:C:60:ILE:C	1:C:216:LYS:N	2.19	0.49
1:C:110:ARG:C	1:E:38:VAL:HG22	2.31	0.49
1:C:250:GLU:HG3	1:C:251:ALA:N	2.26	0.49
1:F:114:PRO:HD2	1:H:39:SER:OG	0.70	0.49
1:G:176:LEU:HD21	1:G:263:VAL:HG12	1.94	0.49
1:I:99:VAL:HG13	1:I:144:LYS:HB2	1.94	0.49
1:J:244:LYS:O	1:J:248:VAL:HG23	2.11	0.49
1:K:164:ASP:HB3	1:K:274:THR:OG1	2.12	0.49
1:L:250:GLU:HG3	1:L:251:ALA:N	2.26	0.49
1:D:164:ASP:HB3	1:D:274:THR:OG1	2.12	0.49
1:H:164:ASP:HB3	1:H:274:THR:OG1	2.12	0.49
1:H:250:GLU:HG3	1:H:251:ALA:N	2.26	0.49
1:J:1:MET:HE1	1:J:16:TRP:HB2	1.92	0.49
1:J:15:GLN:NE2	1:J:313:ASN:O	2.46	0.49
1:K:262:ARG:CA	1:L:34:ARG:HH22	2.24	0.49
1:L:17:GLN:CG	1:L:316:TYR:OH	2.59	0.49
1:A:164:ASP:HB3	1:A:274:THR:OG1	2.12	0.49
1:D:176:LEU:HD21	1:D:263:VAL:HG12	1.94	0.49
1:E:262:ARG:HA	1:F:34:ARG:HH12	1.78	0.49
1:G:262:ARG:HA	1:H:34:ARG:HH12	1.78	0.49
1:H:176:LEU:HD21	1:H:263:VAL:HG12	1.94	0.49
1:I:13:LYS:HD3	1:I:308:GLN:O	2.12	0.49
1:I:262:ARG:HA	1:J:34:ARG:HH12	1.78	0.49
1:J:99:VAL:HG13	1:J:144:LYS:HB2	1.94	0.49
1:A:112:ASN:HB2	1:C:43:LYS:CE	1.94	0.49
1:C:202:VAL:HG12	1:C:226:ILE:HD12	1.94	0.49
1:D:60:ILE:O	1:D:215:THR:C	2.32	0.49
1:E:250:GLU:HG3	1:E:251:ALA:N	2.26	0.49
1:F:15:GLN:NE2	1:F:313:ASN:O	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:99:VAL:HG13	1:F:144:LYS:HB2	1.94	0.49
1:G:17:GLN:CG	1:G:316:TYR:OH	2.59	0.49
1:H:15:GLN:CB	1:H:316:TYR:HB2	2.42	0.49
1:I:47:ASN:ND2	1:I:56:SER:HB3	2.26	0.49
1:J:17:GLN:CG	1:J:316:TYR:OH	2.59	0.49
1:K:262:ARG:HA	1:L:34:ARG:HH12	1.78	0.49
1:L:27:ILE:HD11	1:L:308:GLN:HE22	1.74	0.49
1:A:31:SER:OG	1:A:216:LYS:HE3	2.13	0.49
1:C:253:ASN:HD22	1:C:253:ASN:N	2.08	0.49
1:C:262:ARG:HA	1:D:34:ARG:HH12	1.78	0.49
1:F:114:PRO:HD2	1:H:39:SER:HG	0.63	0.49
1:G:164:ASP:HB3	1:G:274:THR:OG1	2.12	0.49
1:G:262:ARG:HH11	1:H:34:ARG:NE	2.08	0.49
1:H:1:MET:HE3	1:H:2:LEU:H	1.76	0.49
1:J:15:GLN:CB	1:J:316:TYR:HB2	2.42	0.49
1:B:15:GLN:CB	1:B:316:TYR:HB2	2.42	0.49
1:C:244:LYS:O	1:C:248:VAL:HG23	2.11	0.49
1:D:15:GLN:NE2	1:D:313:ASN:O	2.46	0.49
1:G:99:VAL:HG13	1:G:144:LYS:HB2	1.94	0.49
1:K:15:GLN:OE1	1:K:313:ASN:CB	2.61	0.49
1:L:31:SER:OG	1:L:216:LYS:HE3	2.13	0.49
1:L:202:VAL:HG12	1:L:226:ILE:HD12	1.94	0.49
1:A:253:ASN:HD22	1:A:253:ASN:N	2.08	0.49
1:B:15:GLN:NE2	1:B:313:ASN:O	2.46	0.49
1:B:99:VAL:HG13	1:B:144:LYS:HB2	1.94	0.49
1:F:15:GLN:OE1	1:F:313:ASN:CB	2.61	0.49
1:G:163:LEU:HD13	1:I:238:ARG:HD2	1.90	0.49
1:A:176:LEU:HD21	1:A:263:VAL:HG12	1.94	0.49
1:C:15:GLN:NE2	1:C:313:ASN:O	2.46	0.49
1:C:31:SER:OG	1:C:216:LYS:HE3	2.13	0.49
1:D:316:TYR:O	1:D:320:ASN:HB2	2.11	0.49
1:F:15:GLN:CB	1:F:316:TYR:HB2	2.42	0.49
1:I:15:GLN:NE2	1:I:313:ASN:O	2.46	0.49
1:J:176:LEU:HD21	1:J:263:VAL:HG12	1.94	0.49
1:L:164:ASP:HB3	1:L:274:THR:OG1	2.12	0.49
1:A:262:ARG:HA	1:B:34:ARG:HH12	1.78	0.49
1:D:15:GLN:OE1	1:D:313:ASN:CB	2.61	0.49
1:D:15:GLN:CB	1:D:316:TYR:HB2	2.42	0.49
1:E:164:ASP:HB3	1:E:274:THR:OG1	2.12	0.49
1:H:25:GLN:OE1	1:H:313:ASN:CG	2.52	0.49
1:A:15:GLN:NE2	1:A:313:ASN:O	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:99:VAL:HG13	1:A:144:LYS:HB2	1.94	0.48
1:C:176:LEU:HD21	1:C:263:VAL:HG12	1.94	0.48
1:D:114:PRO:HD2	1:F:39:SER:OG	0.70	0.48
1:E:163:LEU:HD13	1:G:238:ARG:HD2	1.90	0.48
1:F:25:GLN:OE1	1:F:313:ASN:CG	2.51	0.48
1:F:176:LEU:HD21	1:F:263:VAL:HG12	1.94	0.48
1:G:102:LEU:HD21	1:G:122:LYS:HG2	1.95	0.48
1:H:114:PRO:HD2	1:J:39:SER:OG	0.70	0.48
1:I:202:VAL:HG12	1:I:226:ILE:HD12	1.94	0.48
1:J:25:GLN:OE1	1:J:313:ASN:CG	2.52	0.48
1:J:31:SER:OG	1:J:216:LYS:HE3	2.13	0.48
1:K:176:LEU:HD21	1:K:263:VAL:HG12	1.94	0.48
1:K:209:ALA:HB1	1:K:248:VAL:HA	1.95	0.48
1:L:15:GLN:OE1	1:L:313:ASN:CB	2.61	0.48
1:A:17:GLN:CG	1:A:316:TYR:OH	2.60	0.48
1:A:102:LEU:HD21	1:A:122:LYS:HG2	1.95	0.48
1:C:102:LEU:HD21	1:C:122:LYS:HG2	1.95	0.48
1:D:262:ARG:HA	1:E:34:ARG:HH12	1.78	0.48
1:E:15:GLN:NE2	1:E:313:ASN:O	2.46	0.48
1:E:59:PRO:HA	1:E:220:TYR:HE2	1.78	0.48
1:F:202:VAL:HG12	1:F:226:ILE:HD12	1.94	0.48
1:H:202:VAL:HG12	1:H:226:ILE:HD12	1.94	0.48
1:I:15:GLN:OE1	1:I:313:ASN:CB	2.61	0.48
1:I:15:GLN:CD	1:I:316:TYR:CG	2.84	0.48
1:I:114:PRO:HD2	1:K:39:SER:OG	0.70	0.48
1:I:209:ALA:HB1	1:I:248:VAL:HA	1.95	0.48
1:B:262:ARG:HA	1:C:34:ARG:HH12	1.78	0.48
1:C:59:PRO:HA	1:C:220:TYR:HE2	1.79	0.48
1:D:17:GLN:CG	1:D:316:TYR:OH	2.60	0.48
1:D:202:VAL:HG12	1:D:226:ILE:HD12	1.94	0.48
1:E:102:LEU:HD21	1:E:122:LYS:HG2	1.96	0.48
1:F:59:PRO:HA	1:F:220:TYR:HE2	1.78	0.48
1:H:15:GLN:NE2	1:H:313:ASN:O	2.46	0.48
1:I:102:LEU:HD21	1:I:122:LYS:HG2	1.95	0.48
1:J:68:THR:HG22	1:J:69:ASN:H	1.79	0.48
1:A:59:PRO:HA	1:A:220:TYR:HE2	1.79	0.48
1:A:110:ARG:N	1:C:38:VAL:HG13	2.26	0.48
1:B:202:VAL:HG12	1:B:226:ILE:HD12	1.94	0.48
1:C:68:THR:HG22	1:C:69:ASN:H	1.79	0.48
1:D:59:PRO:HA	1:D:220:TYR:HE2	1.78	0.48
1:E:99:VAL:HG13	1:E:144:LYS:HB2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:209:ALA:HB1	1:G:248:VAL:HA	1.95	0.48
1:H:229:ARG:NH2	1:H:284:GLU:OE2	2.46	0.48
1:I:59:PRO:HA	1:I:220:TYR:HE2	1.78	0.48
1:I:163:LEU:HD13	1:K:238:ARG:HD2	1.90	0.48
1:J:15:GLN:OE1	1:J:313:ASN:CB	2.61	0.48
1:J:229:ARG:NH2	1:J:284:GLU:OE2	2.46	0.48
1:K:59:PRO:HA	1:K:220:TYR:HE2	1.78	0.48
1:L:102:LEU:HD21	1:L:122:LYS:HG2	1.95	0.48
1:A:13:LYS:HD3	1:A:308:GLN:O	2.12	0.48
1:A:202:VAL:HG12	1:A:226:ILE:HD12	1.94	0.48
1:C:110:ARG:N	1:E:38:VAL:HG13	2.26	0.48
1:D:25:GLN:OE1	1:D:313:ASN:CG	2.52	0.48
1:F:164:ASP:HB3	1:F:274:THR:OG1	2.12	0.48
1:G:17:GLN:HB2	1:G:316:TYR:HH	1.68	0.48
1:G:59:PRO:HA	1:G:220:TYR:HE2	1.79	0.48
1:H:59:PRO:HA	1:H:220:TYR:HE2	1.78	0.48
1:J:59:PRO:HA	1:J:220:TYR:HE2	1.78	0.48
1:J:114:PRO:HD2	1:L:39:SER:OG	0.70	0.48
1:J:202:VAL:HG12	1:J:226:ILE:HD12	1.94	0.48
1:K:25:GLN:OE1	1:K:313:ASN:CG	2.51	0.48
1:L:13:LYS:HD3	1:L:308:GLN:O	2.12	0.48
1:L:25:GLN:OE1	1:L:313:ASN:CG	2.52	0.48
1:L:99:VAL:HG13	1:L:144:LYS:HB2	1.95	0.48
1:B:209:ALA:HB1	1:B:248:VAL:HA	1.95	0.48
1:D:112:ASN:ND2	1:F:43:LYS:HZ3	2.08	0.48
1:E:13:LYS:HD3	1:E:308:GLN:O	2.12	0.48
1:E:32:PHE:CZ	1:E:81:ALA:HA	2.49	0.48
1:G:15:GLN:NE2	1:G:313:ASN:O	2.46	0.48
1:G:15:GLN:CD	1:G:316:TYR:CG	2.84	0.48
1:G:32:PHE:CZ	1:G:81:ALA:HA	2.49	0.48
1:G:114:PRO:HD2	1:I:39:SER:OG	0.70	0.48
1:K:15:GLN:NE2	1:K:313:ASN:O	2.46	0.48
1:K:102:LEU:HD21	1:K:122:LYS:HG2	1.95	0.48
1:L:15:GLN:NE2	1:L:313:ASN:O	2.46	0.48
1:L:59:PRO:HA	1:L:220:TYR:HE2	1.79	0.48
1:A:32:PHE:CZ	1:A:81:ALA:HA	2.49	0.48
1:C:32:PHE:CZ	1:C:81:ALA:HA	2.49	0.48
1:D:99:VAL:HG13	1:D:144:LYS:HB2	1.94	0.48
1:D:112:ASN:CG	1:F:43:LYS:HZ3	1.90	0.48
1:E:31:SER:OG	1:E:216:LYS:HE3	2.13	0.48
1:E:176:LEU:HD21	1:E:263:VAL:HG12	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:107:TYR:HE2	1:I:41:GLY:HA3	1.66	0.48
1:H:32:PHE:CZ	1:H:81:ALA:HA	2.49	0.48
1:L:102:LEU:HG	1:L:122:LYS:HG3	1.96	0.48
1:B:212:LEU:HD21	1:B:221:LEU:HD13	1.96	0.48
1:B:229:ARG:NH2	1:B:284:GLU:OE2	2.46	0.48
1:C:112:ASN:ND2	1:E:43:LYS:HZ3	2.08	0.48
1:C:163:LEU:HD13	1:E:238:ARG:HD2	1.90	0.48
1:D:27:ILE:HD11	1:D:308:GLN:HE22	1.74	0.48
1:H:106:GLU:C	1:J:40:PHE:CD2	2.87	0.48
1:I:212:LEU:HD21	1:I:221:LEU:HD13	1.96	0.48
1:J:102:LEU:HD21	1:J:122:LYS:HG2	1.95	0.48
1:K:102:LEU:HG	1:K:122:LYS:HG3	1.96	0.48
1:K:212:LEU:HD21	1:K:221:LEU:HD13	1.96	0.48
1:B:15:GLN:OE1	1:B:313:ASN:CB	2.61	0.48
1:B:32:PHE:CZ	1:B:81:ALA:HA	2.49	0.48
1:B:59:PRO:HA	1:B:220:TYR:HE2	1.78	0.48
1:D:209:ALA:HB1	1:D:248:VAL:HA	1.95	0.48
1:E:102:LEU:HG	1:E:122:LYS:HG3	1.96	0.48
1:F:13:LYS:HD3	1:F:308:GLN:O	2.12	0.48
1:F:229:ARG:NH2	1:F:284:GLU:OE2	2.46	0.48
1:G:25:GLN:OE1	1:G:313:ASN:CG	2.51	0.48
1:G:212:LEU:HD21	1:G:221:LEU:HD13	1.96	0.48
1:I:68:THR:HG22	1:I:69:ASN:H	1.79	0.48
1:I:102:LEU:HG	1:I:122:LYS:HG3	1.96	0.48
1:K:32:PHE:CZ	1:K:81:ALA:HA	2.49	0.48
1:L:229:ARG:NH2	1:L:284:GLU:OE2	2.46	0.48
1:A:15:GLN:CD	1:A:316:TYR:CG	2.84	0.48
1:A:102:LEU:HG	1:A:122:LYS:HG3	1.96	0.48
1:B:112:ASN:ND2	1:D:43:LYS:HZ3	2.08	0.48
1:C:99:VAL:HG13	1:C:144:LYS:HB2	1.94	0.48
1:C:102:LEU:HG	1:C:122:LYS:HG3	1.96	0.48
1:C:188:ILE:HB	1:E:43:LYS:HE2	1.96	0.48
1:D:68:THR:HG22	1:D:69:ASN:H	1.79	0.48
1:E:110:ARG:N	1:G:38:VAL:HG13	2.26	0.48
1:G:15:GLN:OE1	1:G:313:ASN:CB	2.61	0.48
1:H:31:SER:OG	1:H:216:LYS:HE3	2.13	0.48
1:I:25:GLN:OE1	1:I:313:ASN:CG	2.51	0.48
1:J:102:LEU:HG	1:J:122:LYS:HG3	1.96	0.48
1:L:32:PHE:CZ	1:L:81:ALA:HA	2.49	0.48
1:B:25:GLN:OE1	1:B:313:ASN:CG	2.51	0.47
1:B:102:LEU:HD21	1:B:122:LYS:HG2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:212:LEU:HD21	1:D:221:LEU:HD13	1.96	0.47
1:D:229:ARG:NH2	1:D:284:GLU:OE2	2.46	0.47
1:E:287:CYS:SG	1:E:303:LYS:HE2	2.54	0.47
1:F:57:PHE:O	1:F:58:ASP:HB3	2.14	0.47
1:G:31:SER:OG	1:G:216:LYS:HE3	2.13	0.47
1:G:102:LEU:HG	1:G:122:LYS:HG3	1.96	0.47
1:H:57:PHE:O	1:H:58:ASP:HB3	2.14	0.47
1:I:111:ASN:H	1:K:38:VAL:HG22	1.74	0.47
1:J:57:PHE:O	1:J:58:ASP:HB3	2.14	0.47
1:K:287:CYS:SG	1:K:303:LYS:HE2	2.54	0.47
1:A:68:THR:HG22	1:A:69:ASN:H	1.79	0.47
1:A:188:ILE:HB	1:C:43:LYS:HE2	1.96	0.47
1:A:287:CYS:SG	1:A:303:LYS:HE2	2.54	0.47
1:B:102:LEU:HG	1:B:122:LYS:HG3	1.96	0.47
1:B:287:CYS:SG	1:B:303:LYS:HE2	2.54	0.47
1:C:25:GLN:OE1	1:C:313:ASN:CG	2.51	0.47
1:D:112:ASN:HB2	1:F:43:LYS:CE	1.94	0.47
1:E:188:ILE:HB	1:G:43:LYS:HE2	1.96	0.47
1:E:209:ALA:HB1	1:E:248:VAL:HA	1.95	0.47
1:E:212:LEU:HD21	1:E:221:LEU:HD13	1.96	0.47
1:H:68:THR:HG22	1:H:69:ASN:H	1.79	0.47
1:I:32:PHE:CZ	1:I:81:ALA:HA	2.49	0.47
1:J:32:PHE:CZ	1:J:81:ALA:HA	2.49	0.47
1:J:209:ALA:HB1	1:J:248:VAL:HA	1.95	0.47
1:L:15:GLN:CD	1:L:316:TYR:CG	2.84	0.47
1:A:25:GLN:OE1	1:A:313:ASN:CG	2.51	0.47
1:A:57:PHE:O	1:A:58:ASP:HB3	2.14	0.47
1:D:31:SER:OG	1:D:216:LYS:HE3	2.13	0.47
1:D:102:LEU:HG	1:D:122:LYS:HG3	1.96	0.47
1:E:112:ASN:ND2	1:G:43:LYS:HZ3	2.07	0.47
1:F:27:ILE:HD11	1:F:308:GLN:HE22	1.74	0.47
1:F:102:LEU:HG	1:F:122:LYS:HG3	1.96	0.47
1:G:115:ASN:HB3	1:I:40:PHE:HD2	1.78	0.47
1:H:102:LEU:HG	1:H:122:LYS:HG3	1.96	0.47
1:H:209:ALA:HB1	1:H:248:VAL:HA	1.95	0.47
1:I:31:SER:OG	1:I:216:LYS:HE3	2.13	0.47
1:I:287:CYS:SG	1:I:303:LYS:HE2	2.54	0.47
1:K:13:LYS:HD3	1:K:308:GLN:O	2.12	0.47
1:L:176:LEU:HD21	1:L:263:VAL:HG12	1.94	0.47
1:B:68:THR:HG22	1:B:69:ASN:H	1.79	0.47
1:D:32:PHE:CZ	1:D:81:ALA:HA	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:102:LEU:HD21	1:D:122:LYS:HG2	1.95	0.47
1:F:209:ALA:HB1	1:F:248:VAL:HA	1.95	0.47
1:G:110:ARG:N	1:I:38:VAL:HG13	2.26	0.47
1:G:287:CYS:SG	1:G:303:LYS:HE2	2.54	0.47
1:H:150:ILE:HB	1:H:151:PRO:HD3	1.97	0.47
1:H:262:ARG:HA	1:I:34:ARG:HH12	1.78	0.47
1:J:110:ARG:N	1:L:38:VAL:HG13	2.26	0.47
1:J:188:ILE:HB	1:L:43:LYS:HE2	1.96	0.47
1:K:57:PHE:O	1:K:58:ASP:HB3	2.14	0.47
1:L:150:ILE:HB	1:L:151:PRO:HD3	1.97	0.47
1:C:202:VAL:HG12	1:C:226:ILE:CD1	2.45	0.47
1:F:212:LEU:HD21	1:F:221:LEU:HD13	1.96	0.47
1:F:262:ARG:HH11	1:G:34:ARG:NE	2.08	0.47
1:G:68:THR:HG22	1:G:69:ASN:H	1.79	0.47
1:H:102:LEU:HD21	1:H:122:LYS:HG2	1.95	0.47
1:H:287:CYS:SG	1:H:303:LYS:HE2	2.54	0.47
1:J:114:PRO:CD	1:L:39:SER:HG	1.25	0.47
1:J:262:ARG:HA	1:K:34:ARG:HH12	1.78	0.47
1:K:202:VAL:HG12	1:K:226:ILE:CD1	2.45	0.47
1:K:229:ARG:NH2	1:K:284:GLU:OE2	2.46	0.47
1:A:114:PRO:HD2	1:C:39:SER:OG	0.70	0.47
1:A:209:ALA:HB1	1:A:248:VAL:HA	1.95	0.47
1:B:150:ILE:HB	1:B:151:PRO:HD3	1.97	0.47
1:C:212:LEU:HD21	1:C:221:LEU:HD13	1.96	0.47
1:D:150:ILE:HB	1:D:151:PRO:HD3	1.97	0.47
1:D:287:CYS:SG	1:D:303:LYS:HE2	2.54	0.47
1:E:25:GLN:OE1	1:E:313:ASN:CG	2.52	0.47
1:E:68:THR:HG22	1:E:69:ASN:H	1.79	0.47
1:F:102:LEU:HD21	1:F:122:LYS:HG2	1.95	0.47
1:F:262:ARG:HA	1:G:34:ARG:HH12	1.78	0.47
1:H:15:GLN:OE1	1:H:313:ASN:CB	2.61	0.47
1:H:188:ILE:HB	1:J:43:LYS:HE2	1.96	0.47
1:I:150:ILE:HB	1:I:151:PRO:HD3	1.97	0.47
1:K:68:THR:HG22	1:K:69:ASN:H	1.79	0.47
1:L:287:CYS:SG	1:L:303:LYS:HE2	2.55	0.47
1:A:15:GLN:CB	1:A:316:TYR:HB2	2.42	0.47
1:A:202:VAL:HG12	1:A:226:ILE:CD1	2.45	0.47
1:A:212:LEU:HD21	1:A:221:LEU:HD13	1.96	0.47
1:A:229:ARG:NH2	1:A:284:GLU:OE2	2.46	0.47
1:B:202:VAL:HG12	1:B:226:ILE:CD1	2.45	0.47
1:C:16:TRP:NE1	1:C:91:LEU:HD21	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:114:PRO:CD	1:E:39:SER:HG	1.25	0.47
1:C:114:PRO:HD2	1:E:39:SER:OG	0.70	0.47
1:C:150:ILE:HB	1:C:151:PRO:HD3	1.97	0.47
1:C:209:ALA:HB1	1:C:248:VAL:HA	1.95	0.47
1:C:287:CYS:SG	1:C:303:LYS:HE2	2.55	0.47
1:D:57:PHE:O	1:D:58:ASP:HB3	2.15	0.47
1:D:70:ILE:H	1:D:70:ILE:CD1	2.28	0.47
1:D:115:ASN:HB3	1:F:40:PHE:HD2	1.78	0.47
1:E:202:VAL:HG12	1:E:226:ILE:CD1	2.45	0.47
1:E:202:VAL:CG1	1:E:226:ILE:HD12	2.45	0.47
1:F:32:PHE:CZ	1:F:81:ALA:HA	2.49	0.47
1:F:287:CYS:SG	1:F:303:LYS:HE2	2.54	0.47
1:G:16:TRP:NE1	1:G:91:LEU:HD21	2.30	0.47
1:G:202:VAL:CG1	1:G:226:ILE:HD12	2.45	0.47
1:H:60:ILE:N	1:H:217:GLY:CA	2.63	0.47
1:H:112:ASN:CG	1:J:43:LYS:HZ2	1.77	0.47
1:H:202:VAL:HG12	1:H:226:ILE:CD1	2.45	0.47
1:I:16:TRP:NE1	1:I:91:LEU:HD21	2.30	0.47
1:J:16:TRP:NE1	1:J:91:LEU:HD21	2.30	0.47
1:K:31:SER:OG	1:K:216:LYS:HE3	2.13	0.47
1:L:1:MET:HE3	1:L:2:LEU:H	1.80	0.47
1:L:16:TRP:NE1	1:L:91:LEU:HD21	2.30	0.47
1:L:68:THR:HG22	1:L:69:ASN:H	1.79	0.47
1:L:202:VAL:HG12	1:L:226:ILE:CD1	2.45	0.47
1:A:16:TRP:NE1	1:A:91:LEU:HD21	2.30	0.47
1:B:57:PHE:O	1:B:58:ASP:HB3	2.14	0.47
1:B:202:VAL:CG1	1:B:226:ILE:HD12	2.45	0.47
1:C:13:LYS:HD3	1:C:308:GLN:O	2.12	0.47
1:C:106:GLU:C	1:E:40:PHE:CD2	2.87	0.47
1:E:16:TRP:NE1	1:E:91:LEU:HD21	2.30	0.47
1:F:16:TRP:NE1	1:F:91:LEU:HD21	2.30	0.47
1:G:57:PHE:O	1:G:58:ASP:HB3	2.14	0.47
1:H:16:TRP:NE1	1:H:91:LEU:HD21	2.30	0.47
1:H:70:ILE:H	1:H:70:ILE:CD1	2.28	0.47
1:I:202:VAL:HG12	1:I:226:ILE:CD1	2.45	0.47
1:E:150:ILE:HB	1:E:151:PRO:HD3	1.97	0.47
1:F:31:SER:OG	1:F:216:LYS:HE3	2.13	0.47
1:F:68:THR:HG22	1:F:69:ASN:H	1.79	0.47
1:F:202:VAL:CG1	1:F:226:ILE:HD12	2.45	0.47
1:F:210:LEU:CD2	1:F:244:LYS:HE3	2.42	0.47
1:G:106:GLU:C	1:I:40:PHE:CD2	2.87	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:188:ILE:HB	1:I:43:LYS:HE2	1.96	0.47
1:L:212:LEU:HD21	1:L:221:LEU:HD13	1.96	0.47
1:C:15:GLN:OE1	1:C:313:ASN:CB	2.61	0.47
1:D:202:VAL:CG1	1:D:226:ILE:HD12	2.45	0.47
1:H:210:LEU:CD2	1:H:244:LYS:HE3	2.42	0.47
1:A:163:LEU:HD13	1:C:238:ARG:HD2	1.90	0.46
1:B:307:SER:HA	1:B:310:ASP:OD2	2.15	0.46
1:C:57:PHE:O	1:C:58:ASP:HB3	2.14	0.46
1:D:114:PRO:CD	1:F:39:SER:HG	1.25	0.46
1:E:15:GLN:OE1	1:E:313:ASN:CB	2.61	0.46
1:F:61:SER:HB2	1:F:214:ARG:O	2.15	0.46
1:F:188:ILE:HB	1:H:43:LYS:HE2	1.96	0.46
1:G:61:SER:HB2	1:G:214:ARG:O	2.15	0.46
1:H:61:SER:HB2	1:H:214:ARG:O	2.15	0.46
1:H:212:LEU:HD21	1:H:221:LEU:HD13	1.96	0.46
1:I:110:ARG:N	1:K:38:VAL:HG13	2.26	0.46
1:J:61:SER:HB2	1:J:214:ARG:O	2.15	0.46
1:J:202:VAL:HG12	1:J:226:ILE:CD1	2.45	0.46
1:J:212:LEU:HD21	1:J:221:LEU:HD13	1.96	0.46
1:K:202:VAL:CG1	1:K:226:ILE:HD12	2.45	0.46
1:L:209:ALA:HB1	1:L:248:VAL:HA	1.95	0.46
1:A:150:ILE:HB	1:A:151:PRO:HD3	1.97	0.46
1:C:61:SER:HB2	1:C:214:ARG:O	2.15	0.46
1:C:202:VAL:CG1	1:C:226:ILE:HD12	2.45	0.46
1:D:202:VAL:HG12	1:D:226:ILE:CD1	2.45	0.46
1:D:229:ARG:HB2	1:D:252:MET:HE3	1.97	0.46
1:D:307:SER:HA	1:D:310:ASP:OD2	2.15	0.46
1:E:229:ARG:HB2	1:E:252:MET:HE3	1.97	0.46
1:H:202:VAL:CG1	1:H:226:ILE:HD12	2.45	0.46
1:I:112:ASN:ND2	1:K:43:LYS:HZ3	2.08	0.46
1:I:188:ILE:HB	1:K:43:LYS:HE2	1.96	0.46
1:J:11:ASN:O	1:J:13:LYS:HE2	2.16	0.46
1:J:112:ASN:CG	1:L:43:LYS:HZ2	1.76	0.46
1:J:287:CYS:SG	1:J:303:LYS:HE2	2.55	0.46
1:L:61:SER:HB2	1:L:214:ARG:O	2.15	0.46
1:L:202:VAL:CG1	1:L:226:ILE:HD12	2.45	0.46
1:B:102:LEU:HD23	1:B:102:LEU:HA	1.84	0.46
1:D:13:LYS:HD3	1:D:308:GLN:O	2.12	0.46
1:D:16:TRP:NE1	1:D:91:LEU:HD21	2.30	0.46
1:D:61:SER:HB2	1:D:214:ARG:O	2.15	0.46
1:D:210:LEU:CD2	1:D:244:LYS:HE3	2.42	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:57:PHE:O	1:E:58:ASP:HB3	2.14	0.46
1:E:229:ARG:NH2	1:E:284:GLU:OE2	2.46	0.46
1:H:110:ARG:N	1:J:38:VAL:HG13	2.26	0.46
1:J:150:ILE:HB	1:J:151:PRO:HD3	1.97	0.46
1:K:16:TRP:NE1	1:K:91:LEU:HD21	2.30	0.46
1:A:112:ASN:CG	1:C:43:LYS:HZ2	1.76	0.46
1:B:16:TRP:NE1	1:B:91:LEU:HD21	2.30	0.46
1:E:15:GLN:CD	1:E:316:TYR:CG	2.84	0.46
1:E:114:PRO:HD2	1:G:39:SER:OG	0.70	0.46
1:F:150:ILE:HB	1:F:151:PRO:HD3	1.97	0.46
1:J:108:TYR:HD2	1:L:40:PHE:N	2.01	0.46
1:L:70:ILE:H	1:L:70:ILE:CD1	2.28	0.46
1:B:27:ILE:HD11	1:B:308:GLN:HE22	1.74	0.46
1:B:188:ILE:HB	1:D:43:LYS:HE2	1.96	0.46
1:C:229:ARG:NH2	1:C:284:GLU:OE2	2.46	0.46
1:C:307:SER:HA	1:C:310:ASP:OD2	2.15	0.46
1:E:210:LEU:HG	1:E:248:VAL:HG21	1.98	0.46
1:G:202:VAL:HG12	1:G:226:ILE:CD1	2.45	0.46
1:G:210:LEU:HG	1:G:248:VAL:HG21	1.98	0.46
1:H:1:MET:HE1	1:H:16:TRP:HB2	1.96	0.46
1:J:1:MET:HE3	1:J:2:LEU:H	1.80	0.46
1:J:13:LYS:HD3	1:J:308:GLN:O	2.12	0.46
1:J:202:VAL:CG1	1:J:226:ILE:HD12	2.45	0.46
1:J:210:LEU:CD2	1:J:244:LYS:HE3	2.42	0.46
1:C:11:ASN:O	1:C:13:LYS:HE2	2.16	0.46
1:C:110:ARG:H	1:E:38:VAL:CG1	2.07	0.46
1:E:61:SER:HB2	1:E:214:ARG:O	2.15	0.46
1:F:307:SER:HA	1:F:310:ASP:OD2	2.15	0.46
1:G:150:ILE:HB	1:G:151:PRO:HD3	1.97	0.46
1:G:229:ARG:NH2	1:G:284:GLU:OE2	2.46	0.46
1:I:202:VAL:CG1	1:I:226:ILE:HD12	2.45	0.46
1:K:61:SER:HB2	1:K:214:ARG:O	2.15	0.46
1:L:11:ASN:O	1:L:13:LYS:HE2	2.16	0.46
1:L:57:PHE:O	1:L:58:ASP:HB3	2.15	0.46
1:A:210:LEU:HG	1:A:248:VAL:HG21	1.98	0.46
1:B:31:SER:OG	1:B:216:LYS:HE3	2.13	0.46
1:B:58:ASP:OD2	1:B:60:ILE:HG23	2.16	0.46
1:C:210:LEU:HG	1:C:248:VAL:HG21	1.98	0.46
1:D:11:ASN:O	1:D:13:LYS:HE2	2.16	0.46
1:D:114:PRO:HD2	1:F:39:SER:HG	0.59	0.46
1:H:114:PRO:HD2	1:J:39:SER:HG	0.59	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:11:ASN:O	1:K:13:LYS:HE2	2.16	0.46
1:K:58:ASP:OD2	1:K:60:ILE:HG23	2.16	0.46
1:A:61:SER:HB2	1:A:214:ARG:O	2.15	0.46
1:B:210:LEU:CD2	1:B:244:LYS:HE3	2.42	0.46
1:D:188:ILE:HB	1:F:43:LYS:HE2	1.96	0.46
1:G:13:LYS:HD3	1:G:308:GLN:O	2.12	0.46
1:G:112:ASN:ND2	1:I:43:LYS:HZ3	2.09	0.46
1:H:11:ASN:O	1:H:13:LYS:HE2	2.16	0.46
1:H:60:ILE:C	1:H:216:LYS:N	2.19	0.46
1:I:61:SER:HB2	1:I:214:ARG:O	2.15	0.46
1:I:210:LEU:HG	1:I:248:VAL:HG21	1.98	0.46
1:L:58:ASP:OD2	1:L:60:ILE:HG23	2.16	0.46
1:A:11:ASN:O	1:A:13:LYS:HE2	2.16	0.46
1:A:15:GLN:OE1	1:A:313:ASN:CB	2.61	0.46
1:C:48:TYR:O	1:C:54:GLN:HA	2.16	0.46
1:E:11:ASN:O	1:E:13:LYS:HE2	2.16	0.46
1:E:58:ASP:OD2	1:E:60:ILE:HG23	2.16	0.46
1:F:110:ARG:N	1:H:38:VAL:HG13	2.26	0.46
1:F:210:LEU:HG	1:F:248:VAL:HG21	1.98	0.46
1:H:210:LEU:HG	1:H:248:VAL:HG21	1.98	0.46
1:I:229:ARG:NH2	1:I:284:GLU:OE2	2.46	0.46
1:J:114:PRO:HD2	1:L:39:SER:HG	0.59	0.46
1:A:48:TYR:O	1:A:54:GLN:HA	2.16	0.46
1:A:58:ASP:OD2	1:A:60:ILE:HG23	2.16	0.46
1:A:202:VAL:CG1	1:A:226:ILE:HD12	2.45	0.46
1:F:48:TYR:O	1:F:54:GLN:HA	2.16	0.46
1:F:202:VAL:HG12	1:F:226:ILE:CD1	2.45	0.46
1:I:57:PHE:O	1:I:58:ASP:HB3	2.15	0.46
1:A:27:ILE:HD11	1:A:308:GLN:HE22	1.74	0.45
1:C:70:ILE:H	1:C:70:ILE:CD1	2.28	0.45
1:G:11:ASN:O	1:G:13:LYS:HE2	2.16	0.45
1:G:112:ASN:CA	1:I:43:LYS:CE	2.64	0.45
1:G:307:SER:HA	1:G:310:ASP:OD2	2.15	0.45
1:H:58:ASP:OD2	1:H:60:ILE:HG23	2.16	0.45
1:I:48:TYR:O	1:I:54:GLN:HA	2.16	0.45
1:I:70:ILE:H	1:I:70:ILE:CD1	2.28	0.45
1:J:210:LEU:HG	1:J:248:VAL:HG21	1.98	0.45
1:L:210:LEU:HG	1:L:248:VAL:HG21	1.98	0.45
1:B:11:ASN:O	1:B:13:LYS:HE2	2.16	0.45
1:B:70:ILE:H	1:B:70:ILE:CD1	2.28	0.45
1:C:229:ARG:HB2	1:C:252:MET:HE3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:110:ARG:N	1:F:38:VAL:HG13	2.26	0.45
1:F:58:ASP:OD2	1:F:60:ILE:HG23	2.16	0.45
1:G:48:TYR:O	1:G:54:GLN:HA	2.16	0.45
1:H:307:SER:HA	1:H:310:ASP:OD2	2.15	0.45
1:J:112:ASN:HB2	1:L:43:LYS:CE	1.94	0.45
1:K:150:ILE:HB	1:K:151:PRO:HD3	1.97	0.45
1:D:48:TYR:O	1:D:54:GLN:HA	2.16	0.45
1:G:58:ASP:OD2	1:G:60:ILE:HG23	2.16	0.45
1:G:303:LYS:HE3	1:G:303:LYS:HB3	1.82	0.45
1:H:48:TYR:O	1:H:54:GLN:HA	2.16	0.45
1:K:48:TYR:O	1:K:54:GLN:HA	2.16	0.45
1:K:162:GLU:H	1:K:162:GLU:HG2	1.47	0.45
1:A:70:ILE:H	1:A:70:ILE:CD1	2.28	0.45
1:A:113:GLN:HB2	1:C:38:VAL:HA	1.61	0.45
1:A:115:ASN:HB3	1:C:40:PHE:HD2	1.78	0.45
1:B:61:SER:HB2	1:B:214:ARG:O	2.15	0.45
1:D:58:ASP:OD2	1:D:60:ILE:HG23	2.16	0.45
1:E:307:SER:HA	1:E:310:ASP:OD2	2.15	0.45
1:F:11:ASN:O	1:F:13:LYS:HE2	2.16	0.45
1:J:48:TYR:O	1:J:54:GLN:HA	2.16	0.45
1:J:58:ASP:OD2	1:J:60:ILE:HG23	2.16	0.45
1:K:210:LEU:HG	1:K:248:VAL:HG21	1.98	0.45
1:L:210:LEU:CD2	1:L:244:LYS:HE3	2.42	0.45
1:L:313:ASN:O	1:L:317:LEU:HG	2.17	0.45
1:A:307:SER:HA	1:A:310:ASP:OD2	2.15	0.45
1:B:110:ARG:N	1:D:38:VAL:HG13	2.26	0.45
1:C:31:SER:OG	1:C:216:LYS:HE2	2.17	0.45
1:C:69:ASN:HB3	1:C:70:ILE:HD12	1.99	0.45
1:D:31:SER:OG	1:D:216:LYS:HE2	2.17	0.45
1:D:102:LEU:HD23	1:D:102:LEU:HA	1.84	0.45
1:F:70:ILE:H	1:F:70:ILE:CD1	2.28	0.45
1:F:112:ASN:CG	1:H:43:LYS:HZ3	1.92	0.45
1:H:112:ASN:HB2	1:J:43:LYS:CE	1.94	0.45
1:I:58:ASP:OD2	1:I:60:ILE:HG23	2.16	0.45
1:I:307:SER:HA	1:I:310:ASP:OD2	2.15	0.45
1:J:115:ASN:HB3	1:L:40:PHE:HD2	1.78	0.45
1:L:307:SER:HA	1:L:310:ASP:OD2	2.15	0.45
1:A:69:ASN:HB3	1:A:70:ILE:HD12	1.99	0.45
1:A:112:ASN:ND2	1:C:43:LYS:HZ3	2.12	0.45
1:B:48:TYR:O	1:B:54:GLN:HA	2.16	0.45
1:C:58:ASP:OD2	1:C:60:ILE:HG23	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:162:GLU:H	1:D:162:GLU:HG2	1.47	0.45
1:D:210:LEU:HG	1:D:248:VAL:HG21	1.98	0.45
1:E:48:TYR:O	1:E:54:GLN:HA	2.16	0.45
1:F:113:GLN:HB2	1:H:38:VAL:HA	1.60	0.45
1:I:106:GLU:C	1:K:40:PHE:CD2	2.87	0.45
1:J:50:LEU:HD23	1:J:80:VAL:HG22	1.99	0.45
1:K:313:ASN:O	1:K:317:LEU:HG	2.17	0.45
1:L:48:TYR:O	1:L:54:GLN:HA	2.16	0.45
1:L:69:ASN:HB3	1:L:70:ILE:HD12	1.99	0.45
1:G:70:ILE:H	1:G:70:ILE:CD1	2.28	0.45
1:H:31:SER:OG	1:H:216:LYS:HE2	2.17	0.45
1:I:11:ASN:O	1:I:13:LYS:HE2	2.16	0.45
1:J:15:GLN:CD	1:J:316:TYR:CG	2.84	0.45
1:K:70:ILE:H	1:K:70:ILE:CD1	2.28	0.45
1:K:307:SER:HA	1:K:310:ASP:OD2	2.15	0.45
1:A:108:TYR:HD2	1:C:40:PHE:N	2.01	0.45
1:C:50:LEU:HD23	1:C:80:VAL:HG22	1.99	0.45
1:C:108:TYR:HD2	1:E:40:PHE:N	2.01	0.45
1:C:115:ASN:HB3	1:E:40:PHE:HD2	1.78	0.45
1:E:163:LEU:HD11	1:G:234:TYR:OH	2.17	0.45
1:F:112:ASN:HB2	1:H:43:LYS:CE	1.94	0.45
1:F:313:ASN:O	1:F:317:LEU:HG	2.17	0.45
1:G:31:SER:OG	1:G:216:LYS:HE2	2.17	0.45
1:I:50:LEU:HD23	1:I:80:VAL:HG22	1.99	0.45
1:I:112:ASN:CA	1:K:43:LYS:CE	2.65	0.45
1:J:69:ASN:HB3	1:J:70:ILE:HD12	1.99	0.45
1:J:307:SER:HA	1:J:310:ASP:OD2	2.15	0.45
1:J:313:ASN:O	1:J:317:LEU:HG	2.17	0.45
1:K:210:LEU:CD2	1:K:244:LYS:HE3	2.42	0.45
1:D:313:ASN:O	1:D:317:LEU:HG	2.17	0.45
1:E:69:ASN:HB3	1:E:70:ILE:HD12	1.99	0.45
1:E:70:ILE:H	1:E:70:ILE:CD1	2.28	0.45
1:H:27:ILE:HD11	1:H:308:GLN:HE22	1.74	0.45
1:H:108:TYR:HD2	1:J:40:PHE:N	2.01	0.45
1:H:163:LEU:HD11	1:J:234:TYR:OH	2.17	0.45
1:K:27:ILE:HD11	1:K:308:GLN:HE22	1.74	0.45
1:L:50:LEU:HD23	1:L:80:VAL:HG22	1.99	0.45
1:A:163:LEU:HD11	1:C:234:TYR:OH	2.17	0.45
1:B:313:ASN:O	1:B:317:LEU:HG	2.17	0.45
1:E:313:ASN:O	1:E:317:LEU:HG	2.17	0.45
1:G:163:LEU:HD11	1:I:234:TYR:OH	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:313:ASN:O	1:G:317:LEU:HG	2.17	0.45
1:H:306:ASN:HD22	1:H:306:ASN:HA	1.64	0.45
1:K:50:LEU:HD23	1:K:80:VAL:HG22	1.99	0.45
1:A:107:TYR:HE2	1:C:41:GLY:HA3	1.66	0.44
1:A:313:ASN:O	1:A:317:LEU:HG	2.17	0.44
1:B:163:LEU:HD11	1:D:234:TYR:OH	2.17	0.44
1:D:50:LEU:HD23	1:D:80:VAL:HG22	1.99	0.44
1:E:50:LEU:HD23	1:E:80:VAL:HG22	1.99	0.44
1:F:276:VAL:CG2	1:F:296:ILE:HG13	2.47	0.44
1:I:15:GLN:NE2	1:I:313:ASN:HA	2.29	0.44
1:J:106:GLU:C	1:L:40:PHE:CD2	2.87	0.44
1:J:163:LEU:HD11	1:L:234:TYR:OH	2.17	0.44
1:L:31:SER:OG	1:L:216:LYS:HE2	2.17	0.44
1:A:102:LEU:HD23	1:A:102:LEU:HA	1.84	0.44
1:A:210:LEU:CD2	1:A:244:LYS:HE3	2.42	0.44
1:D:163:LEU:HD11	1:F:234:TYR:OH	2.17	0.44
1:G:114:PRO:HD2	1:I:39:SER:HG	0.62	0.44
1:H:313:ASN:O	1:H:317:LEU:HG	2.17	0.44
1:I:313:ASN:O	1:I:317:LEU:HG	2.17	0.44
1:B:106:GLU:C	1:D:40:PHE:CD2	2.87	0.44
1:B:210:LEU:HG	1:B:248:VAL:HG21	1.98	0.44
1:E:1:MET:HE3	1:E:2:LEU:H	1.82	0.44
1:E:108:TYR:HD2	1:G:40:PHE:N	2.01	0.44
1:F:59:PRO:HB2	1:F:217:GLY:O	2.18	0.44
1:F:112:ASN:HB2	1:H:43:LYS:NZ	1.15	0.44
1:F:163:LEU:HD11	1:H:234:TYR:OH	2.17	0.44
1:G:15:GLN:NE2	1:G:313:ASN:HA	2.29	0.44
1:G:276:VAL:CG2	1:G:296:ILE:HG13	2.47	0.44
1:H:115:ASN:HB3	1:J:40:PHE:HD2	1.78	0.44
1:H:276:VAL:CG2	1:H:296:ILE:HG13	2.47	0.44
1:I:114:PRO:CD	1:K:39:SER:HG	1.25	0.44
1:J:112:ASN:ND2	1:L:43:LYS:HZ3	2.11	0.44
1:K:243:ASN:O	1:K:247:ILE:HG12	2.18	0.44
1:L:243:ASN:O	1:L:247:ILE:HG12	2.18	0.44
1:A:243:ASN:O	1:A:247:ILE:HG12	2.18	0.44
1:C:15:GLN:NE2	1:C:313:ASN:HA	2.29	0.44
1:D:276:VAL:CG2	1:D:296:ILE:HG13	2.47	0.44
1:H:248:VAL:O	1:H:252:MET:HB2	2.18	0.44
1:K:102:LEU:HA	1:K:102:LEU:HD23	1.84	0.44
1:B:13:LYS:HD3	1:B:308:GLN:O	2.12	0.44
1:B:50:LEU:HD23	1:B:80:VAL:HG22	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:163:LEU:HD13	1:D:238:ARG:HD2	1.90	0.44
1:C:243:ASN:O	1:C:247:ILE:HG12	2.18	0.44
1:E:248:VAL:O	1:E:252:MET:HB2	2.18	0.44
1:E:276:VAL:CG2	1:E:296:ILE:HG13	2.47	0.44
1:E:303:LYS:HE3	1:E:303:LYS:HB3	1.82	0.44
1:F:114:PRO:CD	1:H:39:SER:HG	1.28	0.44
1:G:248:VAL:O	1:G:252:MET:HB2	2.18	0.44
1:J:243:ASN:O	1:J:247:ILE:HG12	2.18	0.44
1:K:176:LEU:CD2	1:K:263:VAL:HG12	2.48	0.44
1:A:229:ARG:HB2	1:A:252:MET:HE3	2.00	0.44
1:D:95:GLU:HG2	1:D:139:THR:HB	2.00	0.44
1:F:50:LEU:HD23	1:F:80:VAL:HG22	1.99	0.44
1:F:248:VAL:O	1:F:252:MET:HB2	2.18	0.44
1:H:69:ASN:HB3	1:H:70:ILE:HD12	1.99	0.44
1:I:276:VAL:CG2	1:I:296:ILE:HG13	2.47	0.44
1:J:70:ILE:H	1:J:70:ILE:CD1	2.28	0.44
1:A:114:PRO:HD2	1:C:39:SER:HG	0.60	0.44
1:C:248:VAL:O	1:C:252:MET:HB2	2.18	0.44
1:G:69:ASN:HB3	1:G:70:ILE:HD12	1.99	0.44
1:G:114:PRO:CD	1:I:39:SER:HG	1.27	0.44
1:I:210:LEU:CD2	1:I:244:LYS:HE3	2.42	0.44
1:I:243:ASN:O	1:I:247:ILE:HG12	2.18	0.44
1:J:248:VAL:O	1:J:252:MET:HB2	2.18	0.44
1:K:248:VAL:O	1:K:252:MET:HB2	2.18	0.44
1:B:69:ASN:HB3	1:B:70:ILE:HD12	1.99	0.44
1:B:176:LEU:CD2	1:B:263:VAL:HG12	2.48	0.44
1:E:15:GLN:NE2	1:E:313:ASN:HA	2.29	0.44
1:F:31:SER:OG	1:F:216:LYS:HE2	2.17	0.44
1:F:229:ARG:HB2	1:F:252:MET:HE3	2.00	0.44
1:H:13:LYS:HD3	1:H:308:GLN:O	2.12	0.44
1:H:50:LEU:HD23	1:H:80:VAL:HG22	1.99	0.44
1:I:248:VAL:O	1:I:252:MET:HB2	2.18	0.44
1:K:15:GLN:CD	1:K:316:TYR:CG	2.84	0.44
1:L:95:GLU:HG2	1:L:139:THR:HB	2.00	0.44
1:A:176:LEU:CD2	1:A:263:VAL:HG12	2.48	0.44
1:C:163:LEU:HD11	1:E:234:TYR:OH	2.17	0.44
1:C:210:LEU:CD2	1:C:244:LYS:HE3	2.42	0.44
1:C:313:ASN:O	1:C:317:LEU:HG	2.17	0.44
1:D:59:PRO:HB2	1:D:217:GLY:O	2.18	0.44
1:D:69:ASN:HB3	1:D:70:ILE:HD12	1.99	0.44
1:D:248:VAL:O	1:D:252:MET:HB2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:112:ASN:CA	1:G:43:LYS:CE	2.65	0.44
1:G:50:LEU:HD23	1:G:80:VAL:HG22	1.99	0.44
1:H:59:PRO:HB2	1:H:217:GLY:O	2.18	0.44
1:H:243:ASN:O	1:H:247:ILE:HG12	2.18	0.44
1:J:95:GLU:HG2	1:J:139:THR:HB	2.00	0.44
1:K:1:MET:HE3	1:K:2:LEU:H	1.81	0.44
1:K:59:PRO:HB2	1:K:217:GLY:O	2.18	0.44
1:K:60:ILE:HB	1:K:61:SER:H	1.68	0.44
1:A:50:LEU:HD23	1:A:80:VAL:HG22	1.99	0.43
1:B:303:LYS:HE3	1:B:303:LYS:HB3	1.82	0.43
1:H:113:GLN:HG3	1:J:45:VAL:HG21	1.77	0.43
1:I:176:LEU:CD2	1:I:263:VAL:HG12	2.48	0.43
1:J:276:VAL:CG2	1:J:296:ILE:HG13	2.47	0.43
1:L:176:LEU:CD2	1:L:263:VAL:HG12	2.48	0.43
1:A:59:PRO:HB2	1:A:217:GLY:O	2.18	0.43
1:B:95:GLU:HG2	1:B:139:THR:HB	2.00	0.43
1:B:243:ASN:O	1:B:247:ILE:HG12	2.18	0.43
1:D:16:TRP:C	1:D:316:TYR:HE1	2.21	0.43
1:D:303:LYS:HE3	1:D:303:LYS:HB3	1.82	0.43
1:E:115:ASN:HB3	1:G:40:PHE:HD2	1.78	0.43
1:E:243:ASN:O	1:E:247:ILE:HG12	2.18	0.43
1:F:16:TRP:C	1:F:316:TYR:HE1	2.21	0.43
1:J:163:LEU:HD13	1:L:238:ARG:HD2	1.90	0.43
1:K:95:GLU:HG2	1:K:139:THR:HB	2.00	0.43
1:K:276:VAL:CG2	1:K:296:ILE:HG13	2.47	0.43
1:L:59:PRO:HB2	1:L:217:GLY:O	2.18	0.43
1:B:31:SER:OG	1:B:216:LYS:HE2	2.17	0.43
1:E:114:PRO:HD2	1:G:39:SER:HG	0.51	0.43
1:E:210:LEU:CD2	1:E:244:LYS:HE3	2.42	0.43
1:F:95:GLU:HG2	1:F:139:THR:HB	2.00	0.43
1:F:176:LEU:CD2	1:F:263:VAL:HG12	2.48	0.43
1:F:303:LYS:HE3	1:F:303:LYS:HB3	1.82	0.43
1:G:102:LEU:HD23	1:G:102:LEU:HA	1.84	0.43
1:G:210:LEU:CD2	1:G:244:LYS:HE3	2.42	0.43
1:I:163:LEU:HD11	1:K:234:TYR:OH	2.17	0.43
1:B:276:VAL:CG2	1:B:296:ILE:HG13	2.47	0.43
1:C:276:VAL:CG2	1:C:296:ILE:HG13	2.47	0.43
1:G:243:ASN:O	1:G:247:ILE:HG12	2.18	0.43
1:I:31:SER:OG	1:I:216:LYS:HE2	2.17	0.43
1:K:69:ASN:HB3	1:K:70:ILE:HD12	1.99	0.43
1:A:248:VAL:O	1:A:252:MET:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:162:GLU:H	1:B:162:GLU:HG2	1.47	0.43
1:C:176:LEU:CD2	1:C:263:VAL:HG12	2.48	0.43
1:D:1:MET:HE3	1:D:2:LEU:H	1.83	0.43
1:E:59:PRO:HB2	1:E:217:GLY:O	2.18	0.43
1:F:108:TYR:HD2	1:H:40:PHE:N	2.01	0.43
1:G:108:TYR:HD2	1:I:40:PHE:N	2.01	0.43
1:H:303:LYS:HE3	1:H:303:LYS:HB3	1.82	0.43
1:A:15:GLN:NE2	1:A:313:ASN:HA	2.29	0.43
1:A:60:ILE:C	1:A:216:LYS:N	2.19	0.43
1:B:1:MET:HE3	1:B:2:LEU:H	1.83	0.43
1:B:15:GLN:CD	1:B:316:TYR:CG	2.84	0.43
1:D:243:ASN:O	1:D:247:ILE:HG12	2.18	0.43
1:I:17:GLN:HB2	1:I:316:TYR:CE1	2.54	0.43
1:K:15:GLN:NE2	1:K:313:ASN:HA	2.29	0.43
1:L:248:VAL:O	1:L:252:MET:HB2	2.18	0.43
1:L:306:ASN:HD22	1:L:306:ASN:HA	1.64	0.43
1:A:31:SER:OG	1:A:216:LYS:HE2	2.17	0.43
1:C:15:GLN:CD	1:C:316:TYR:CG	2.84	0.43
1:C:59:PRO:HB2	1:C:217:GLY:O	2.18	0.43
1:C:95:GLU:HG2	1:C:139:THR:HB	2.00	0.43
1:D:17:GLN:HB2	1:D:316:TYR:HH	1.69	0.43
1:D:163:LEU:HD13	1:F:238:ARG:HD2	1.90	0.43
1:E:95:GLU:HG2	1:E:139:THR:HB	2.00	0.43
1:F:69:ASN:HB3	1:F:70:ILE:HD12	1.99	0.43
1:F:102:LEU:HD23	1:F:102:LEU:HA	1.84	0.43
1:F:243:ASN:O	1:F:247:ILE:HG12	2.18	0.43
1:G:59:PRO:HB2	1:G:217:GLY:O	2.18	0.43
1:I:95:GLU:HG2	1:I:139:THR:HB	2.00	0.43
1:J:190:LYS:HD3	1:J:270:PHE:CE2	2.54	0.43
1:A:27:ILE:HD12	1:A:308:GLN:CG	2.49	0.43
1:A:190:LYS:HD3	1:A:270:PHE:CE2	2.54	0.43
1:B:59:PRO:HB2	1:B:217:GLY:O	2.18	0.43
1:B:115:ASN:HB3	1:D:40:PHE:HD2	1.78	0.43
1:C:17:GLN:HB2	1:C:316:TYR:CE1	2.54	0.43
1:C:27:ILE:HD12	1:C:308:GLN:CG	2.49	0.43
1:E:176:LEU:CD2	1:E:263:VAL:HG12	2.48	0.43
1:F:190:LYS:HD3	1:F:270:PHE:CE2	2.54	0.43
1:G:110:ARG:H	1:I:38:VAL:CG1	2.07	0.43
1:I:190:LYS:HD3	1:I:270:PHE:CE2	2.54	0.43
1:J:59:PRO:HB2	1:J:217:GLY:O	2.18	0.43
1:K:16:TRP:C	1:K:316:TYR:HE1	2.21	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:27:ILE:HD12	1:K:308:GLN:CG	2.49	0.43
1:K:190:LYS:HD3	1:K:270:PHE:CE2	2.54	0.43
1:L:27:ILE:HD12	1:L:308:GLN:CG	2.49	0.43
1:B:27:ILE:HD12	1:B:308:GLN:CG	2.49	0.43
1:B:248:VAL:O	1:B:252:MET:HB2	2.18	0.43
1:C:31:SER:CA	1:C:216:LYS:HG2	2.49	0.43
1:G:17:GLN:HB2	1:G:316:TYR:CE1	2.54	0.43
1:H:16:TRP:C	1:H:316:TYR:HE1	2.21	0.43
1:H:112:ASN:ND2	1:J:43:LYS:HZ3	2.12	0.43
1:I:27:ILE:HD12	1:I:308:GLN:CG	2.49	0.43
1:I:59:PRO:HB2	1:I:217:GLY:O	2.18	0.43
1:J:176:LEU:CD2	1:J:263:VAL:HG12	2.48	0.43
1:B:16:TRP:C	1:B:316:TYR:HE1	2.21	0.43
1:D:29:PRO:HG2	1:D:57:PHE:HE2	1.84	0.43
1:E:29:PRO:HG2	1:E:57:PHE:HE2	1.84	0.43
1:F:29:PRO:HG2	1:F:57:PHE:HE2	1.84	0.43
1:I:31:SER:CA	1:I:216:LYS:HG2	2.49	0.43
1:K:29:PRO:HG2	1:K:57:PHE:HE2	1.84	0.43
1:A:114:PRO:CD	1:C:39:SER:HG	1.26	0.42
1:B:29:PRO:HG2	1:B:57:PHE:HE2	1.84	0.42
1:D:27:ILE:HD12	1:D:308:GLN:CG	2.49	0.42
1:D:176:LEU:CD2	1:D:263:VAL:HG12	2.48	0.42
1:F:27:ILE:HD12	1:F:308:GLN:CG	2.49	0.42
1:H:114:PRO:CD	1:J:39:SER:HG	1.25	0.42
1:I:110:ARG:CA	1:K:38:VAL:HG22	2.32	0.42
1:J:31:SER:OG	1:J:216:LYS:HE2	2.17	0.42
1:J:229:ARG:HB2	1:J:252:MET:HE3	2.01	0.42
1:D:106:GLU:C	1:F:40:PHE:CD2	2.87	0.42
1:E:31:SER:OG	1:E:216:LYS:HE2	2.17	0.42
1:G:17:GLN:N	1:G:316:TYR:HE1	2.18	0.42
1:G:201:LEU:HD22	1:G:255:ALA:HB1	2.02	0.42
1:H:29:PRO:HG2	1:H:57:PHE:HE2	1.84	0.42
1:H:95:GLU:HG2	1:H:139:THR:HB	2.00	0.42
1:H:163:LEU:HD13	1:J:238:ARG:HD2	1.90	0.42
1:I:17:GLN:N	1:I:316:TYR:HE1	2.18	0.42
1:I:29:PRO:HG2	1:I:57:PHE:HE2	1.84	0.42
1:I:46:PHE:O	1:I:56:SER:HA	2.20	0.42
1:I:69:ASN:HB3	1:I:70:ILE:HD12	1.99	0.42
1:L:201:LEU:HD22	1:L:255:ALA:HB1	2.01	0.42
1:B:46:PHE:O	1:B:56:SER:HA	2.20	0.42
1:C:17:GLN:N	1:C:316:TYR:HE1	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:190:LYS:HD3	1:C:270:PHE:CE2	2.54	0.42
1:C:303:LYS:HE3	1:C:303:LYS:HB3	1.82	0.42
1:E:17:GLN:N	1:E:316:TYR:HE1	2.18	0.42
1:E:27:ILE:HD12	1:E:308:GLN:CG	2.49	0.42
1:E:201:LEU:HD22	1:E:255:ALA:HB1	2.02	0.42
1:F:106:GLU:C	1:H:40:PHE:CD2	2.87	0.42
1:G:31:SER:CA	1:G:216:LYS:HG2	2.49	0.42
1:G:176:LEU:CD2	1:G:263:VAL:HG12	2.48	0.42
1:H:176:LEU:CD2	1:H:263:VAL:HG12	2.48	0.42
1:L:229:ARG:HB2	1:L:252:MET:HE3	2.01	0.42
1:A:95:GLU:HG2	1:A:139:THR:HB	2.00	0.42
1:A:276:VAL:CG2	1:A:296:ILE:HG13	2.47	0.42
1:B:17:GLN:HB2	1:B:316:TYR:CE1	2.54	0.42
1:E:17:GLN:HB2	1:E:316:TYR:CE1	2.54	0.42
1:E:255:ALA:O	1:E:259:LEU:HD13	2.20	0.42
1:F:163:LEU:HD13	1:H:238:ARG:HD2	1.90	0.42
1:G:46:PHE:O	1:G:56:SER:HA	2.19	0.42
1:J:27:ILE:HD12	1:J:308:GLN:CG	2.49	0.42
1:J:31:SER:CA	1:J:216:LYS:HG2	2.49	0.42
1:J:201:LEU:HD22	1:J:255:ALA:HB1	2.02	0.42
1:J:236:LYS:HA	1:J:245:ILE:HD11	2.01	0.42
1:J:303:LYS:HE3	1:J:303:LYS:HB3	1.82	0.42
1:K:17:GLN:N	1:K:316:TYR:HE1	2.18	0.42
1:K:201:LEU:HD22	1:K:255:ALA:HB1	2.01	0.42
1:L:31:SER:CA	1:L:216:LYS:HG2	2.49	0.42
1:L:276:VAL:CG2	1:L:296:ILE:HG13	2.47	0.42
1:A:17:GLN:N	1:A:316:TYR:HE1	2.18	0.42
1:B:190:LYS:HD3	1:B:270:PHE:CE2	2.54	0.42
1:D:201:LEU:HD22	1:D:255:ALA:HB1	2.01	0.42
1:E:190:LYS:HD3	1:E:270:PHE:CE2	2.54	0.42
1:F:201:LEU:HD22	1:F:255:ALA:HB1	2.02	0.42
1:H:201:LEU:HD22	1:H:255:ALA:HB1	2.02	0.42
1:H:236:LYS:HA	1:H:245:ILE:HD11	2.02	0.42
1:I:108:TYR:HD2	1:K:40:PHE:N	2.00	0.42
1:I:201:LEU:HD22	1:I:255:ALA:HB1	2.02	0.42
1:A:46:PHE:O	1:A:56:SER:HA	2.19	0.42
1:A:201:LEU:HD22	1:A:255:ALA:HB1	2.02	0.42
1:C:15:GLN:HB3	1:C:316:TYR:HB2	2.02	0.42
1:C:201:LEU:HD22	1:C:255:ALA:HB1	2.02	0.42
1:E:15:GLN:HB3	1:E:316:TYR:HB2	2.02	0.42
1:E:31:SER:CA	1:E:216:LYS:HG2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:15:GLN:HB3	1:G:316:TYR:HB2	2.02	0.42
1:G:27:ILE:HD12	1:G:308:GLN:CG	2.49	0.42
1:H:27:ILE:HD12	1:H:308:GLN:CG	2.49	0.42
1:I:15:GLN:HB3	1:I:316:TYR:HB2	2.02	0.42
1:K:15:GLN:HB3	1:K:316:TYR:HB2	2.02	0.42
1:L:190:LYS:HD3	1:L:270:PHE:CE2	2.54	0.42
1:L:212:LEU:HD12	1:L:212:LEU:HA	1.92	0.42
1:L:255:ALA:O	1:L:259:LEU:HD13	2.20	0.42
1:B:15:GLN:NE2	1:B:313:ASN:HA	2.29	0.42
1:B:106:GLU:O	1:D:40:PHE:HE2	1.80	0.42
1:C:46:PHE:O	1:C:56:SER:HA	2.20	0.42
1:C:114:PRO:HD2	1:E:39:SER:HG	0.59	0.42
1:D:23:ILE:HG23	1:D:316:TYR:CD2	2.47	0.42
1:F:306:ASN:HD22	1:F:306:ASN:HA	1.64	0.42
1:G:29:PRO:HG2	1:G:57:PHE:HE2	1.84	0.42
1:G:190:LYS:HD3	1:G:270:PHE:CE2	2.54	0.42
1:I:60:ILE:HB	1:I:61:SER:H	1.68	0.42
1:J:29:PRO:HG2	1:J:57:PHE:HE2	1.84	0.42
1:L:236:LYS:HA	1:L:245:ILE:HD11	2.01	0.42
1:A:29:PRO:HG2	1:A:57:PHE:HE2	1.84	0.42
1:B:201:LEU:HD22	1:B:255:ALA:HB1	2.02	0.42
1:C:255:ALA:O	1:C:259:LEU:HD13	2.20	0.42
1:D:108:TYR:HD2	1:F:40:PHE:N	2.01	0.42
1:F:236:LYS:HA	1:F:245:ILE:HD11	2.01	0.42
1:H:17:GLN:HB2	1:H:316:TYR:CE1	2.54	0.42
1:I:113:GLN:HG3	1:K:45:VAL:HG21	1.77	0.42
1:J:17:GLN:HB2	1:J:316:TYR:CE1	2.54	0.42
1:K:46:PHE:O	1:K:56:SER:HA	2.20	0.42
1:L:17:GLN:HB2	1:L:316:TYR:CE1	2.54	0.42
1:C:29:PRO:HG2	1:C:57:PHE:HE2	1.84	0.42
1:C:112:ASN:CG	1:E:43:LYS:HZ3	1.90	0.42
1:D:15:GLN:HB3	1:D:316:TYR:HB2	2.02	0.42
1:D:46:PHE:O	1:D:56:SER:HA	2.20	0.42
1:D:190:LYS:HD3	1:D:270:PHE:CE2	2.54	0.42
1:F:17:GLN:HB2	1:F:316:TYR:CE1	2.54	0.42
1:F:31:SER:CA	1:F:216:LYS:HG2	2.49	0.42
1:G:95:GLU:HG2	1:G:139:THR:HB	2.00	0.42
1:G:255:ALA:O	1:G:259:LEU:HD13	2.20	0.42
1:H:162:GLU:H	1:H:162:GLU:HG2	1.47	0.42
1:I:16:TRP:C	1:I:316:TYR:HE1	2.21	0.42
1:I:106:GLU:O	1:K:40:PHE:HE2	1.80	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:15:GLN:HB3	1:A:316:TYR:HB2	2.02	0.42
1:A:17:GLN:HB2	1:A:316:TYR:CE1	2.54	0.42
1:A:255:ALA:O	1:A:259:LEU:HD13	2.20	0.42
1:B:15:GLN:HB3	1:B:316:TYR:HB2	2.02	0.42
1:B:31:SER:CA	1:B:216:LYS:HG2	2.49	0.42
1:F:110:ARG:CA	1:H:38:VAL:HG22	2.32	0.42
1:F:255:ALA:O	1:F:259:LEU:HD13	2.20	0.42
1:G:236:LYS:HA	1:G:245:ILE:HD11	2.01	0.42
1:H:190:LYS:HD3	1:H:270:PHE:CE2	2.54	0.42
1:I:236:LYS:HA	1:I:245:ILE:HD11	2.01	0.42
1:J:16:TRP:C	1:J:316:TYR:HE1	2.21	0.42
1:A:1:MET:HE3	1:A:2:LEU:H	1.83	0.41
1:B:17:GLN:N	1:B:316:TYR:HE1	2.18	0.41
1:B:114:PRO:HD2	1:D:39:SER:HG	0.50	0.41
1:C:16:TRP:C	1:C:316:TYR:HE1	2.21	0.41
1:F:104:LEU:HD11	1:F:149:SER:HB2	2.02	0.41
1:H:15:GLN:CD	1:H:316:TYR:CG	2.84	0.41
1:H:104:LEU:HD11	1:H:149:SER:HB2	2.02	0.41
1:H:212:LEU:HD12	1:H:212:LEU:HA	1.92	0.41
1:J:46:PHE:O	1:J:56:SER:HA	2.20	0.41
1:K:17:GLN:HB2	1:K:316:TYR:CE1	2.54	0.41
1:L:15:GLN:HB3	1:L:316:TYR:HB2	2.02	0.41
1:L:17:GLN:N	1:L:316:TYR:HE1	2.18	0.41
1:A:236:LYS:HA	1:A:245:ILE:HD11	2.01	0.41
1:F:46:PHE:O	1:F:56:SER:HA	2.20	0.41
1:H:46:PHE:O	1:H:56:SER:HA	2.20	0.41
1:I:104:LEU:HD11	1:I:149:SER:HB2	2.02	0.41
1:J:15:GLN:NE2	1:J:313:ASN:HA	2.29	0.41
1:J:15:GLN:HB3	1:J:316:TYR:HB2	2.02	0.41
1:L:15:GLN:NE2	1:L:313:ASN:HA	2.29	0.41
1:L:29:PRO:HG2	1:L:57:PHE:HE2	1.84	0.41
1:A:110:ARG:CA	1:C:38:VAL:HG22	2.32	0.41
1:D:17:GLN:HB2	1:D:316:TYR:CE1	2.54	0.41
1:D:17:GLN:N	1:D:316:TYR:HE1	2.18	0.41
1:D:68:THR:HB	1:D:71:ALA:HB3	2.02	0.41
1:D:236:LYS:HA	1:D:245:ILE:HD11	2.01	0.41
1:F:15:GLN:HB3	1:F:316:TYR:HB2	2.02	0.41
1:G:50:LEU:HD13	1:G:50:LEU:C	2.41	0.41
1:G:265:ASN:HD22	1:H:34:ARG:NH1	2.18	0.41
1:H:110:ARG:H	1:J:38:VAL:CG1	2.07	0.41
1:I:265:ASN:HD22	1:J:34:ARG:NH1	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:17:GLN:N	1:J:316:TYR:HE1	2.18	0.41
1:J:255:ALA:O	1:J:259:LEU:HD13	2.20	0.41
1:B:50:LEU:HD13	1:B:50:LEU:C	2.41	0.41
1:B:68:THR:HB	1:B:71:ALA:HB3	2.02	0.41
1:B:108:TYR:HD2	1:D:40:PHE:N	2.01	0.41
1:B:255:ALA:O	1:B:259:LEU:HD13	2.20	0.41
1:B:265:ASN:HD22	1:C:34:ARG:NH1	2.18	0.41
1:D:255:ALA:O	1:D:259:LEU:HD13	2.20	0.41
1:E:16:TRP:C	1:E:316:TYR:HE1	2.21	0.41
1:F:68:THR:HB	1:F:71:ALA:HB3	2.02	0.41
1:I:255:ALA:O	1:I:259:LEU:HD13	2.20	0.41
1:K:104:LEU:HD11	1:K:149:SER:HB2	2.02	0.41
1:K:265:ASN:HD22	1:L:34:ARG:NH1	2.18	0.41
1:A:16:TRP:C	1:A:316:TYR:HE1	2.21	0.41
1:C:1:MET:HE3	1:C:2:LEU:H	1.85	0.41
1:F:50:LEU:HD13	1:F:50:LEU:C	2.41	0.41
1:G:104:LEU:HD11	1:G:149:SER:HB2	2.02	0.41
1:K:31:SER:CA	1:K:216:LYS:HG2	2.49	0.41
1:K:50:LEU:C	1:K:50:LEU:HD13	2.41	0.41
1:K:255:ALA:O	1:K:259:LEU:HD13	2.20	0.41
1:C:236:LYS:HA	1:C:245:ILE:HD11	2.01	0.41
1:E:46:PHE:O	1:E:56:SER:HA	2.20	0.41
1:F:212:LEU:HD12	1:F:212:LEU:HA	1.92	0.41
1:H:15:GLN:HB3	1:H:316:TYR:HB2	2.02	0.41
1:H:113:GLN:HB2	1:J:38:VAL:HA	1.61	0.41
1:H:229:ARG:HB2	1:H:252:MET:HE3	2.03	0.41
1:J:104:LEU:HD11	1:J:149:SER:HB2	2.02	0.41
1:J:265:ASN:HD22	1:K:34:ARG:NH1	2.19	0.41
1:B:104:LEU:HD11	1:B:149:SER:HB2	2.02	0.41
1:B:236:LYS:HA	1:B:245:ILE:HD11	2.01	0.41
1:C:50:LEU:C	1:C:50:LEU:HD13	2.41	0.41
1:C:76:ASP:O	1:C:80:VAL:HG23	2.21	0.41
1:D:104:LEU:HD11	1:D:149:SER:HB2	2.02	0.41
1:F:17:GLN:N	1:F:316:TYR:HE1	2.18	0.41
1:H:17:GLN:N	1:H:316:TYR:HE1	2.18	0.41
1:H:265:ASN:HD22	1:I:34:ARG:NH1	2.18	0.41
1:J:50:LEU:HD13	1:J:50:LEU:C	2.41	0.41
1:B:48:TYR:OH	1:B:84:HIS:HD2	2.04	0.41
1:D:31:SER:CA	1:D:216:LYS:HG2	2.49	0.41
1:D:48:TYR:OH	1:D:84:HIS:HD2	2.04	0.41
1:D:76:ASP:O	1:D:80:VAL:HG23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1:MET:HE3	1:F:2:LEU:H	1.85	0.41
1:G:16:TRP:C	1:G:316:TYR:HE1	2.21	0.41
1:G:60:ILE:HB	1:G:61:SER:H	1.68	0.41
1:H:31:SER:CA	1:H:216:LYS:HG2	2.49	0.41
1:H:68:THR:HB	1:H:71:ALA:HB3	2.02	0.41
1:L:16:TRP:C	1:L:316:TYR:HE1	2.21	0.41
1:L:46:PHE:O	1:L:56:SER:HA	2.20	0.41
1:L:50:LEU:C	1:L:50:LEU:HD13	2.41	0.41
1:A:265:ASN:HD22	1:B:34:ARG:NH1	2.18	0.41
1:C:11:ASN:ND2	1:C:308:GLN:HE22	2.19	0.41
1:D:15:GLN:NE2	1:D:313:ASN:HA	2.29	0.41
1:D:50:LEU:HD13	1:D:50:LEU:C	2.41	0.41
1:D:265:ASN:HD22	1:E:34:ARG:NH1	2.18	0.41
1:E:11:ASN:ND2	1:E:308:GLN:HE22	2.19	0.41
1:E:107:TYR:HE2	1:G:41:GLY:HA3	1.66	0.41
1:E:236:LYS:HA	1:E:245:ILE:HD11	2.01	0.41
1:F:48:TYR:OH	1:F:84:HIS:HD2	2.04	0.41
1:H:15:GLN:NE2	1:H:313:ASN:HA	2.29	0.41
1:H:76:ASP:O	1:H:80:VAL:HG23	2.21	0.41
1:I:115:ASN:HB3	1:K:40:PHE:HD2	1.78	0.41
1:I:224:ASP:O	1:I:228:HIS:HD2	2.04	0.41
1:K:68:THR:HB	1:K:71:ALA:HB3	2.02	0.41
1:L:76:ASP:O	1:L:80:VAL:HG23	2.21	0.41
1:L:303:LYS:HE3	1:L:303:LYS:HB3	1.82	0.41
1:A:31:SER:CA	1:A:216:LYS:HG2	2.49	0.41
1:E:68:THR:HB	1:E:71:ALA:HB3	2.02	0.41
1:E:104:LEU:HD11	1:E:149:SER:HB2	2.02	0.41
1:F:16:TRP:CD1	1:F:91:LEU:HD21	2.57	0.41
1:F:265:ASN:HD22	1:G:34:ARG:NH1	2.18	0.41
1:A:104:LEU:HD11	1:A:149:SER:HB2	2.02	0.40
1:D:11:ASN:ND2	1:D:308:GLN:HE22	2.19	0.40
1:E:265:ASN:HD22	1:F:34:ARG:NH1	2.18	0.40
1:G:76:ASP:O	1:G:80:VAL:HG23	2.21	0.40
1:H:255:ALA:O	1:H:259:LEU:HD13	2.20	0.40
1:I:50:LEU:HD13	1:I:50:LEU:C	2.41	0.40
1:J:212:LEU:HD12	1:J:212:LEU:HA	1.92	0.40
1:A:11:ASN:ND2	1:A:308:GLN:HE22	2.19	0.40
1:A:50:LEU:HD13	1:A:50:LEU:C	2.41	0.40
1:A:162:GLU:H	1:A:162:GLU:HG2	1.47	0.40
1:B:113:GLN:HG3	1:D:45:VAL:HG21	1.77	0.40
1:B:224:ASP:O	1:B:228:HIS:HD2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:68:THR:HB	1:G:71:ALA:HB3	2.02	0.40
1:H:48:TYR:OH	1:H:84:HIS:HD2	2.04	0.40
1:I:16:TRP:CD1	1:I:91:LEU:HD21	2.56	0.40
1:I:76:ASP:O	1:I:80:VAL:HG23	2.21	0.40
1:A:76:ASP:O	1:A:80:VAL:HG23	2.21	0.40
1:B:16:TRP:CD1	1:B:91:LEU:HD21	2.57	0.40
1:C:224:ASP:O	1:C:228:HIS:HD2	2.04	0.40
1:F:11:ASN:ND2	1:F:308:GLN:HE22	2.19	0.40
1:G:11:ASN:ND2	1:G:308:GLN:HE22	2.19	0.40
1:G:224:ASP:O	1:G:228:HIS:HD2	2.04	0.40
1:H:50:LEU:HD13	1:H:50:LEU:C	2.41	0.40
1:H:102:LEU:HD23	1:H:102:LEU:HA	1.84	0.40
1:J:27:ILE:HD11	1:J:308:GLN:HE22	1.74	0.40
1:J:68:THR:HB	1:J:71:ALA:HB3	2.02	0.40
1:B:11:ASN:ND2	1:B:308:GLN:HE22	2.19	0.40
1:C:104:LEU:HD11	1:C:149:SER:HB2	2.02	0.40
1:D:112:ASN:CA	1:F:43:LYS:CE	2.64	0.40
1:E:50:LEU:HD13	1:E:50:LEU:C	2.41	0.40
1:G:27:ILE:CD1	1:G:308:GLN:OE1	2.55	0.40
1:I:68:THR:HB	1:I:71:ALA:HB3	2.02	0.40
1:I:76:ASP:OD2	1:I:128:LYS:HE3	2.22	0.40
1:I:120:GLU:OE2	1:I:120:GLU:HA	2.22	0.40
1:J:76:ASP:O	1:J:80:VAL:HG23	2.21	0.40
1:K:236:LYS:HA	1:K:245:ILE:HD11	2.01	0.40
1:L:60:ILE:C	1:L:216:LYS:N	2.19	0.40
1:L:104:LEU:HD11	1:L:149:SER:HB2	2.02	0.40
1:A:224:ASP:O	1:A:228:HIS:HD2	2.04	0.40
1:C:265:ASN:HD22	1:D:34:ARG:NH1	2.18	0.40
1:D:306:ASN:HD22	1:D:306:ASN:HA	1.64	0.40
1:F:76:ASP:O	1:F:80:VAL:HG23	2.21	0.40
1:G:1:MET:HE3	1:G:2:LEU:H	1.84	0.40
1:I:48:TYR:OH	1:I:84:HIS:HD2	2.04	0.40
1:J:76:ASP:OD2	1:J:128:LYS:HE3	2.22	0.40
1:K:11:ASN:ND2	1:K:308:GLN:HE22	2.19	0.40
1:K:59:PRO:CB	1:K:220:TYR:CE2	3.04	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	306/320 (96%)	290 (95%)	14 (5%)	2 (1%)	22	63
1	B	306/320 (96%)	290 (95%)	14 (5%)	2 (1%)	22	63
1	C	306/320 (96%)	290 (95%)	14 (5%)	2 (1%)	22	63
1	D	306/320 (96%)	290 (95%)	14 (5%)	2 (1%)	22	63
1	E	306/320 (96%)	290 (95%)	14 (5%)	2 (1%)	22	63
1	F	306/320 (96%)	290 (95%)	14 (5%)	2 (1%)	22	63
1	G	306/320 (96%)	290 (95%)	14 (5%)	2 (1%)	22	63
1	H	306/320 (96%)	290 (95%)	14 (5%)	2 (1%)	22	63
1	I	306/320 (96%)	290 (95%)	14 (5%)	2 (1%)	22	63
1	J	306/320 (96%)	290 (95%)	14 (5%)	2 (1%)	22	63
1	K	306/320 (96%)	290 (95%)	14 (5%)	2 (1%)	22	63
1	L	306/320 (96%)	290 (95%)	14 (5%)	2 (1%)	22	63
All	All	3672/3840 (96%)	3480 (95%)	168 (5%)	24 (1%)	26	63

All (24) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	211	SER
1	B	211	SER
1	C	211	SER
1	D	211	SER
1	E	211	SER
1	F	211	SER
1	G	211	SER
1	H	211	SER
1	I	211	SER
1	J	211	SER
1	K	211	SER
1	L	211	SER

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Mol	Chain	Res	Type
1	A	52	GLY
1	B	52	GLY
1	C	52	GLY
1	D	52	GLY
1	E	52	GLY
1	F	52	GLY
1	G	52	GLY
1	H	52	GLY
1	I	52	GLY
1	J	52	GLY
1	K	52	GLY
1	L	52	GLY

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	281/284 (99%)	263 (94%)	18 (6%)	17	42
1	B	281/284 (99%)	263 (94%)	18 (6%)	17	42
1	C	281/284 (99%)	263 (94%)	18 (6%)	17	42
1	D	281/284 (99%)	263 (94%)	18 (6%)	17	42
1	E	281/284 (99%)	263 (94%)	18 (6%)	17	42
1	F	281/284 (99%)	263 (94%)	18 (6%)	17	42
1	G	281/284 (99%)	263 (94%)	18 (6%)	17	42
1	H	281/284 (99%)	263 (94%)	18 (6%)	17	42
1	I	281/284 (99%)	263 (94%)	18 (6%)	17	42
1	J	281/284 (99%)	263 (94%)	18 (6%)	17	42
1	K	281/284 (99%)	263 (94%)	18 (6%)	17	42
1	L	281/284 (99%)	263 (94%)	18 (6%)	17	42
All	All	3372/3408 (99%)	3156 (94%)	216 (6%)	21	42

All (216) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	2	LEU
1	A	13	LYS
1	A	24	LYS
1	A	51	ASN
1	A	53	GLU
1	A	58	ASP
1	A	61	SER
1	A	127	ARG
1	A	136	ASP
1	A	162	GLU
1	A	185	LEU
1	A	212	LEU
1	A	221	LEU
1	A	239	ILE
1	A	290	VAL
1	A	305	ASN
1	A	306	ASN
1	A	311	LEU
1	B	2	LEU
1	B	13	LYS
1	B	24	LYS
1	B	51	ASN
1	B	53	GLU
1	B	58	ASP
1	B	61	SER
1	B	127	ARG
1	B	136	ASP
1	B	162	GLU
1	B	185	LEU
1	B	212	LEU
1	B	221	LEU
1	B	239	ILE
1	B	290	VAL
1	B	305	ASN
1	B	306	ASN
1	B	311	LEU
1	C	2	LEU
1	C	13	LYS
1	C	24	LYS
1	C	51	ASN
1	C	53	GLU
1	C	58	ASP
1	C	61	SER

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Mol	Chain	Res	Type
1	C	127	ARG
1	C	136	ASP
1	C	162	GLU
1	C	185	LEU
1	C	212	LEU
1	C	221	LEU
1	C	239	ILE
1	C	290	VAL
1	C	305	ASN
1	C	306	ASN
1	C	311	LEU
1	D	2	LEU
1	D	13	LYS
1	D	24	LYS
1	D	51	ASN
1	D	53	GLU
1	D	58	ASP
1	D	61	SER
1	D	127	ARG
1	D	136	ASP
1	D	162	GLU
1	D	185	LEU
1	D	212	LEU
1	D	221	LEU
1	D	239	ILE
1	D	290	VAL
1	D	305	ASN
1	D	306	ASN
1	D	311	LEU
1	E	2	LEU
1	E	13	LYS
1	E	24	LYS
1	E	51	ASN
1	E	53	GLU
1	E	58	ASP
1	E	61	SER
1	E	127	ARG
1	E	136	ASP
1	E	162	GLU
1	E	185	LEU
1	E	212	LEU
1	E	221	LEU

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Mol	Chain	Res	Type
1	E	239	ILE
1	E	290	VAL
1	E	305	ASN
1	E	306	ASN
1	E	311	LEU
1	F	2	LEU
1	F	13	LYS
1	F	24	LYS
1	F	51	ASN
1	F	53	GLU
1	F	58	ASP
1	F	61	SER
1	F	127	ARG
1	F	136	ASP
1	F	162	GLU
1	F	185	LEU
1	F	212	LEU
1	F	221	LEU
1	F	239	ILE
1	F	290	VAL
1	F	305	ASN
1	F	306	ASN
1	F	311	LEU
1	G	2	LEU
1	G	13	LYS
1	G	24	LYS
1	G	51	ASN
1	G	53	GLU
1	G	58	ASP
1	G	61	SER
1	G	127	ARG
1	G	136	ASP
1	G	162	GLU
1	G	185	LEU
1	G	212	LEU
1	G	221	LEU
1	G	239	ILE
1	G	290	VAL
1	G	305	ASN
1	G	306	ASN
1	G	311	LEU
1	H	2	LEU

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Mol	Chain	Res	Type
1	H	13	LYS
1	H	24	LYS
1	H	51	ASN
1	H	53	GLU
1	H	58	ASP
1	H	61	SER
1	H	127	ARG
1	H	136	ASP
1	H	162	GLU
1	H	185	LEU
1	H	212	LEU
1	H	221	LEU
1	H	239	ILE
1	H	290	VAL
1	H	305	ASN
1	H	306	ASN
1	H	311	LEU
1	I	2	LEU
1	I	13	LYS
1	I	24	LYS
1	I	51	ASN
1	I	53	GLU
1	I	58	ASP
1	I	61	SER
1	I	127	ARG
1	I	136	ASP
1	I	162	GLU
1	I	185	LEU
1	I	212	LEU
1	I	221	LEU
1	I	239	ILE
1	I	290	VAL
1	I	305	ASN
1	I	306	ASN
1	I	311	LEU
1	J	2	LEU
1	J	13	LYS
1	J	24	LYS
1	J	51	ASN
1	J	53	GLU
1	J	58	ASP
1	J	61	SER

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Mol	Chain	Res	Type
1	J	127	ARG
1	J	136	ASP
1	J	162	GLU
1	J	185	LEU
1	J	212	LEU
1	J	221	LEU
1	J	239	ILE
1	J	290	VAL
1	J	305	ASN
1	J	306	ASN
1	J	311	LEU
1	K	2	LEU
1	K	13	LYS
1	K	24	LYS
1	K	51	ASN
1	K	53	GLU
1	K	58	ASP
1	K	61	SER
1	K	127	ARG
1	K	136	ASP
1	K	162	GLU
1	K	185	LEU
1	K	212	LEU
1	K	221	LEU
1	K	239	ILE
1	K	290	VAL
1	K	305	ASN
1	K	306	ASN
1	K	311	LEU
1	L	2	LEU
1	L	13	LYS
1	L	24	LYS
1	L	51	ASN
1	L	53	GLU
1	L	58	ASP
1	L	61	SER
1	L	127	ARG
1	L	136	ASP
1	L	162	GLU
1	L	185	LEU
1	L	212	LEU
1	L	221	LEU

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Mol	Chain	Res	Type
1	L	239	ILE
1	L	290	VAL
1	L	305	ASN
1	L	306	ASN
1	L	311	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (176) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	47	ASN
1	A	51	ASN
1	A	54	GLN
1	A	73	GLN
1	A	78	ASN
1	A	84	HIS
1	A	112	ASN
1	A	228	HIS
1	A	237	GLN
1	A	253	ASN
1	A	265	ASN
1	A	268	ASN
1	A	306	ASN
1	A	308	GLN
1	B	47	ASN
1	B	51	ASN
1	B	54	GLN
1	B	73	GLN
1	B	78	ASN
1	B	84	HIS
1	B	112	ASN
1	B	228	HIS
1	B	237	GLN
1	B	253	ASN
1	B	265	ASN
1	B	268	ASN
1	B	306	ASN
1	B	308	GLN
1	C	47	ASN
1	C	51	ASN
1	C	54	GLN
1	C	73	GLN
1	C	78	ASN

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Mol	Chain	Res	Type
1	C	84	HIS
1	C	112	ASN
1	C	228	HIS
1	C	237	GLN
1	C	240	ASN
1	C	253	ASN
1	C	265	ASN
1	C	268	ASN
1	C	306	ASN
1	C	308	GLN
1	D	47	ASN
1	D	51	ASN
1	D	54	GLN
1	D	73	GLN
1	D	78	ASN
1	D	84	HIS
1	D	112	ASN
1	D	228	HIS
1	D	237	GLN
1	D	240	ASN
1	D	253	ASN
1	D	265	ASN
1	D	268	ASN
1	D	306	ASN
1	D	308	GLN
1	E	47	ASN
1	E	51	ASN
1	E	54	GLN
1	E	73	GLN
1	E	78	ASN
1	E	84	HIS
1	E	112	ASN
1	E	228	HIS
1	E	237	GLN
1	E	240	ASN
1	E	253	ASN
1	E	265	ASN
1	E	268	ASN
1	E	306	ASN
1	E	308	GLN
1	F	47	ASN
1	F	51	ASN

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Mol	Chain	Res	Type
1	F	54	GLN
1	F	73	GLN
1	F	78	ASN
1	F	84	HIS
1	F	112	ASN
1	F	180	GLN
1	F	228	HIS
1	F	237	GLN
1	F	240	ASN
1	F	253	ASN
1	F	265	ASN
1	F	268	ASN
1	F	306	ASN
1	F	308	GLN
1	G	47	ASN
1	G	51	ASN
1	G	54	GLN
1	G	73	GLN
1	G	78	ASN
1	G	84	HIS
1	G	112	ASN
1	G	228	HIS
1	G	237	GLN
1	G	240	ASN
1	G	253	ASN
1	G	265	ASN
1	G	268	ASN
1	G	306	ASN
1	G	308	GLN
1	H	47	ASN
1	H	51	ASN
1	H	54	GLN
1	H	73	GLN
1	H	78	ASN
1	H	84	HIS
1	H	112	ASN
1	H	228	HIS
1	H	237	GLN
1	H	240	ASN
1	H	253	ASN
1	H	265	ASN
1	H	268	ASN

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Mol	Chain	Res	Type
1	H	306	ASN
1	H	308	GLN
1	I	47	ASN
1	I	51	ASN
1	I	54	GLN
1	I	73	GLN
1	I	78	ASN
1	I	84	HIS
1	I	112	ASN
1	I	228	HIS
1	I	237	GLN
1	I	240	ASN
1	I	253	ASN
1	I	265	ASN
1	I	268	ASN
1	I	306	ASN
1	I	308	GLN
1	J	47	ASN
1	J	51	ASN
1	J	54	GLN
1	J	73	GLN
1	J	78	ASN
1	J	84	HIS
1	J	112	ASN
1	J	228	HIS
1	J	237	GLN
1	J	240	ASN
1	J	253	ASN
1	J	265	ASN
1	J	268	ASN
1	J	306	ASN
1	J	308	GLN
1	K	47	ASN
1	K	51	ASN
1	K	54	GLN
1	K	73	GLN
1	K	78	ASN
1	K	84	HIS
1	K	228	HIS
1	K	237	GLN
1	K	240	ASN
1	K	253	ASN

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Mol	Chain	Res	Type
1	K	265	ASN
1	K	268	ASN
1	K	306	ASN
1	K	308	GLN
1	L	47	ASN
1	L	51	ASN
1	L	54	GLN
1	L	73	GLN
1	L	78	ASN
1	L	84	HIS
1	L	228	HIS
1	L	237	GLN
1	L	240	ASN
1	L	253	ASN
1	L	268	ASN
1	L	306	ASN
1	L	308	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 monosaccharides 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 (i)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	A	3
1	B	3
1	C	3
1	D	3
1	E	3
1	F	3
1	G	3
1	H	3
1	I	3
1	J	3
1	K	3
1	L	3

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A	115:ASN	C	116:THR	N	5.17
1	B	115:ASN	C	116:THR	N	5.17
1	C	115:ASN	C	116:THR	N	5.17
1	D	115:ASN	C	116:THR	N	5.17
1	E	115:ASN	C	116:THR	N	5.17
1	F	115:ASN	C	116:THR	N	5.17
1	G	115:ASN	C	116:THR	N	5.17
1	H	115:ASN	C	116:THR	N	5.17
1	I	115:ASN	C	116:THR	N	5.17
1	J	115:ASN	C	116:THR	N	5.17
1	K	115:ASN	C	116:THR	N	5.17
1	L	115:ASN	C	116:THR	N	5.17
1	A	143:VAL	C	144:LYS	N	3.38
1	B	143:VAL	C	144:LYS	N	3.38
1	C	143:VAL	C	144:LYS	N	3.38
1	D	143:VAL	C	144:LYS	N	3.38
1	E	143:VAL	C	144:LYS	N	3.38
1	F	143:VAL	C	144:LYS	N	3.38
1	G	143:VAL	C	144:LYS	N	3.38
1	H	143:VAL	C	144:LYS	N	3.38
1	I	143:VAL	C	144:LYS	N	3.38
1	J	143:VAL	C	144:LYS	N	3.38
1	K	143:VAL	C	144:LYS	N	3.38
1	L	143:VAL	C	144:LYS	N	3.38

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A	102:LEU	C	103:PRO	N	2.59
1	B	102:LEU	C	103:PRO	N	2.59
1	C	102:LEU	C	103:PRO	N	2.59
1	D	102:LEU	C	103:PRO	N	2.59
1	E	102:LEU	C	103:PRO	N	2.59
1	F	102:LEU	C	103:PRO	N	2.59
1	G	102:LEU	C	103:PRO	N	2.59
1	H	102:LEU	C	103:PRO	N	2.59
1	I	102:LEU	C	103:PRO	N	2.59
1	J	102:LEU	C	103:PRO	N	2.59
1	K	102:LEU	C	103:PRO	N	2.59
1	L	102:LEU	C	103:PRO	N	2.59

6 Map visualisation

This section contains visualisations of the EMDB entry EMD-5128. These allow visual inspection of the internal detail of the map and identification of artifacts.

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

6.1 Orthogonal projections

This section was not generated.

6.2 Central slices

This section was not generated.

6.3 Largest variance slices

This section was not generated.

6.4 Orthogonal standard-deviation projections (False-color)

This section was not generated.

6.5 Orthogonal surface views

This section was not generated.

6.6 Mask visualisation

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

7 Map analysis

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

7.1 Map-value distribution

This section was not generated.

7.2 Volume estimate versus contour level

This section was not generated.

7.3 Rotationally averaged power spectrum

This section was not generated. The rotationally averaged power spectrum had issues being displayed.

8 Fourier-Shell correlation

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

9 Map-model fit

This section was not generated.