



Full wwPDB/EMDataBank EM Map/Model Validation Report ⓘ

Dec 19, 2016 – 01:22 PM EST

PDB ID : 5WQ7
EMDB ID: : EMD-6675
Title : CryoEM structure of type II secretion system secretin GspD in E.coli K12
Authors : Yan, Z.; Yin, M.; Li, X.
Deposited on : 2016-11-23
Resolution : 3.04 Å(reported)

This is a Full wwPDB/EMDataBank EM Map/Model Validation Report
for a publicly released PDB/EMDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<http://wwpdb.org/validation/2016/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

MolProbity : 4.02b-467
Mogul : unknown
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : rb-20028442

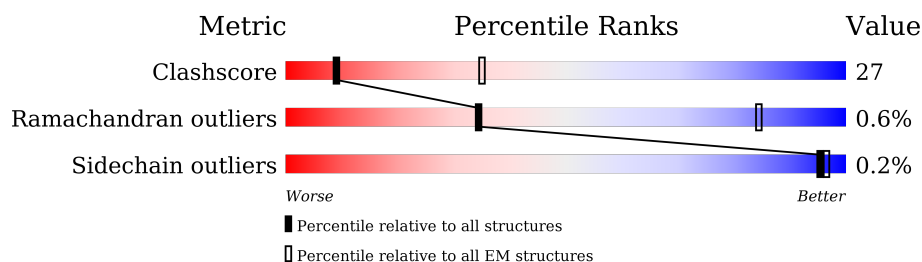
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY






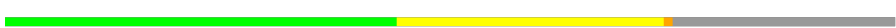



The reported resolution of this entry is 3.04 Å.

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





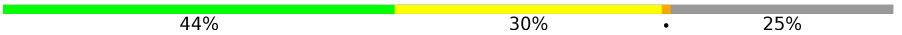
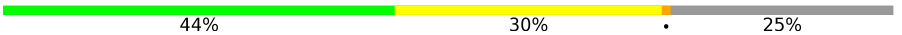
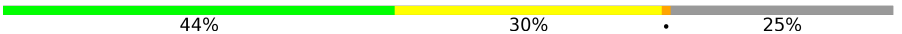
Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	114402	924
Ramachandran outliers	111179	726
Sidechain outliers	111093	686

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

Mol	Chain	Length	Quality of chain
1	A	627	
1	B	627	
1	C	627	
1	D	627	
1	E	627	
1	F	627	
1	G	627	
1	H	627	
1	I	627	

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Mol	Chain	Length	Quality of chain
1	J	627	 44% 31% • 25%
1	K	627	 45% 30% • 25%
1	L	627	 45% 30% • 25%
1	M	627	 44% 30% • 25%
1	N	627	 44% 30% • 25%
1	O	627	 44% 30% • 25%

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 54480 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.

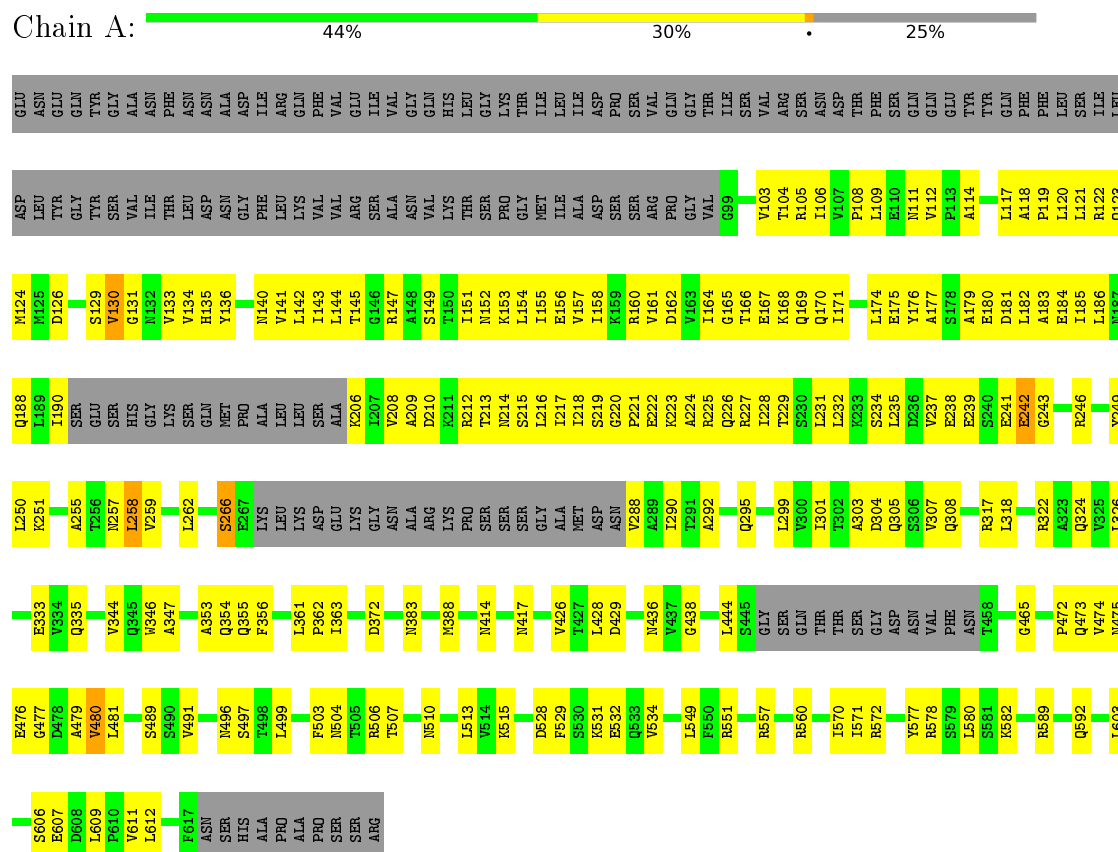
- Molecule 1 is a protein called Putative type II secretion system protein D.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	472	Total	C	N	O	S	0	0
			3632	2279	628	720	5		
1	B	472	Total	C	N	O	S	0	0
			3632	2279	628	720	5		
1	C	472	Total	C	N	O	S	0	0
			3632	2279	628	720	5		
1	D	472	Total	C	N	O	S	0	0
			3632	2279	628	720	5		
1	E	472	Total	C	N	O	S	0	0
			3632	2279	628	720	5		
1	F	472	Total	C	N	O	S	0	0
			3632	2279	628	720	5		
1	G	472	Total	C	N	O	S	0	0
			3632	2279	628	720	5		
1	H	472	Total	C	N	O	S	0	0
			3632	2279	628	720	5		
1	I	472	Total	C	N	O	S	0	0
			3632	2279	628	720	5		
1	J	472	Total	C	N	O	S	0	0
			3632	2279	628	720	5		
1	K	472	Total	C	N	O	S	0	0
			3632	2279	628	720	5		
1	L	472	Total	C	N	O	S	0	0
			3632	2279	628	720	5		
1	M	472	Total	C	N	O	S	0	0
			3632	2279	628	720	5		
1	N	472	Total	C	N	O	S	0	0
			3632	2279	628	720	5		
1	O	472	Total	C	N	O	S	0	0
			3632	2279	628	720	5		

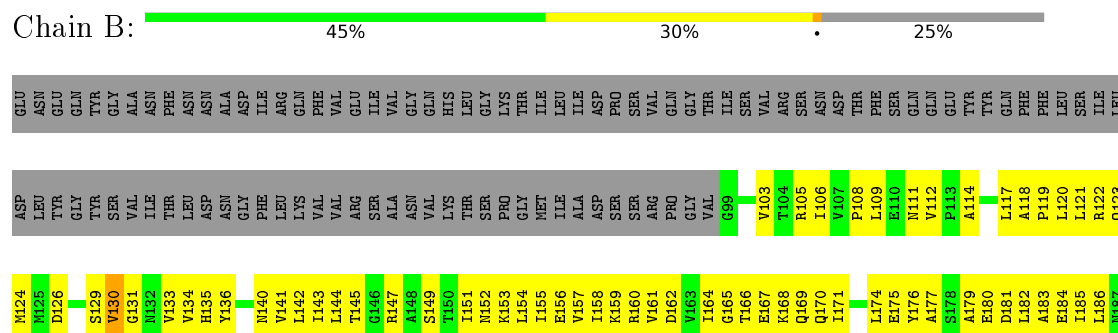
3 Residue-property plots

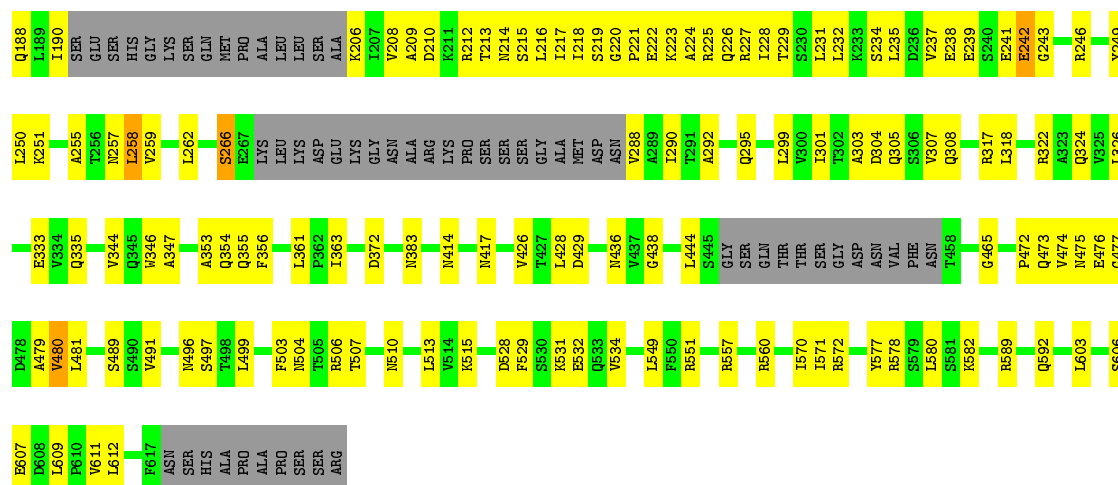
These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. Residues are color-coded according to the number of geometric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

- Molecule 1: Putative type II secretion system protein D



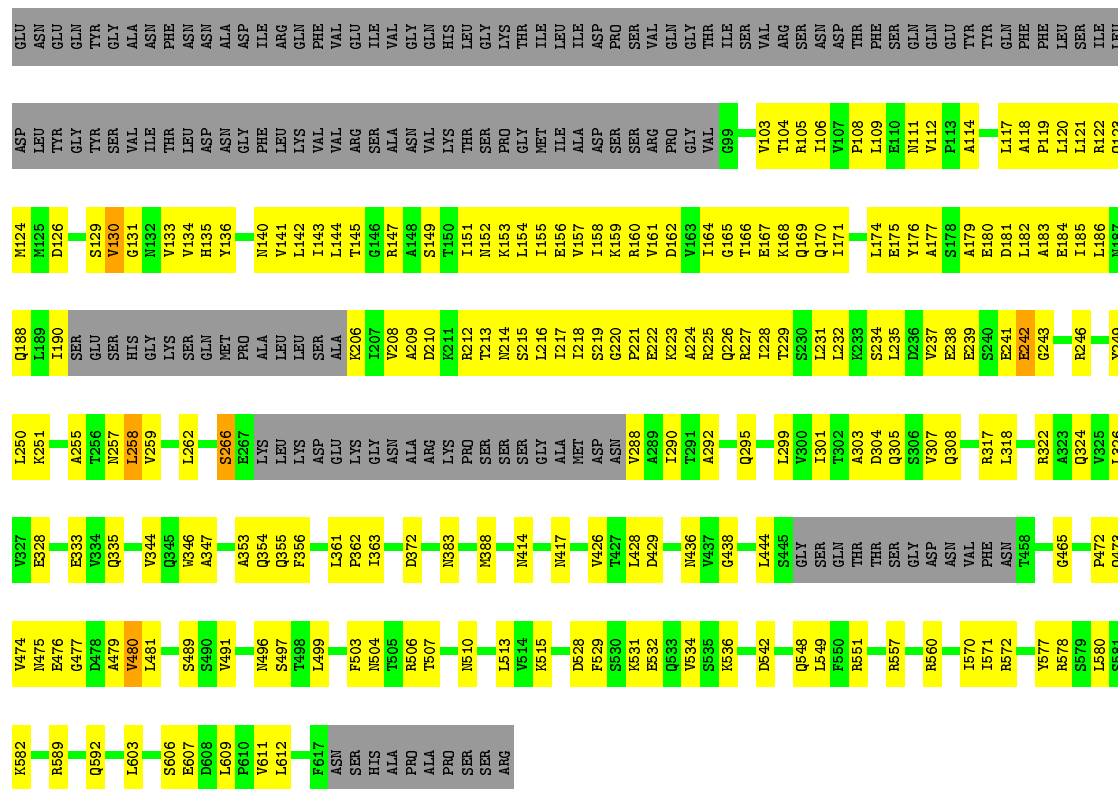
- Molecule 1: Putative type II secretion system protein D





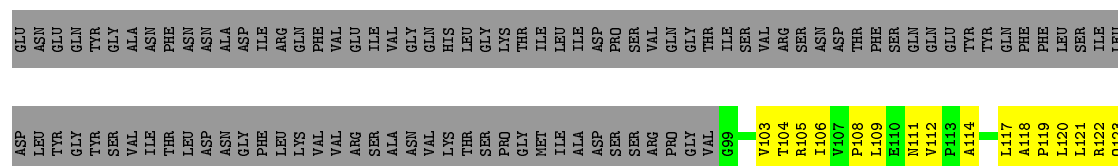
• Molecule 1: Putative type II secretion system protein D

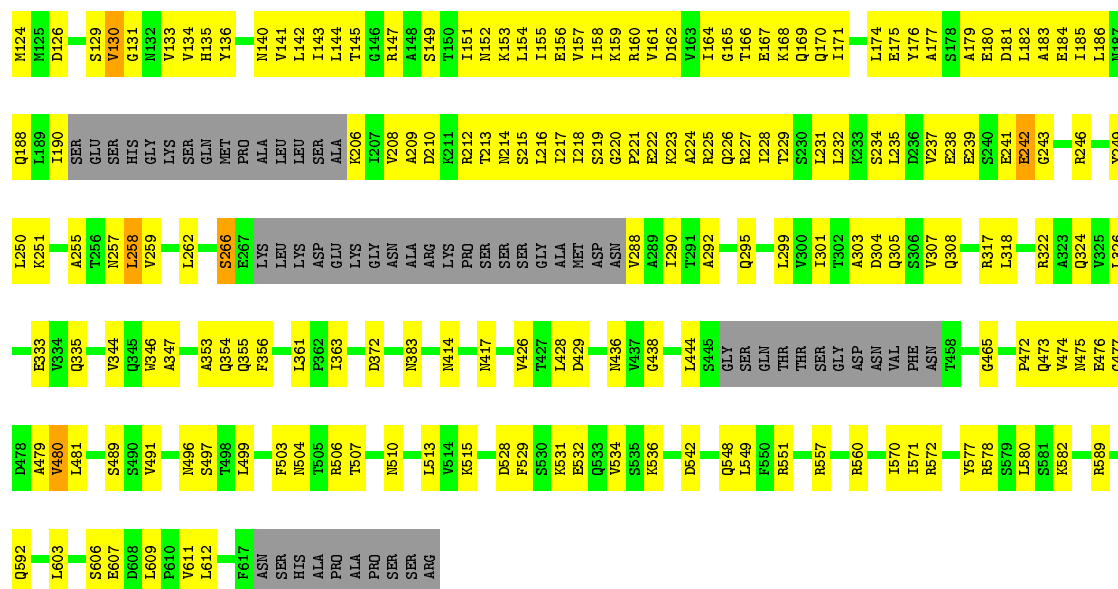
Chain C: 44% 31% 25%



• Molecule 1: Putative type II secretion system protein D

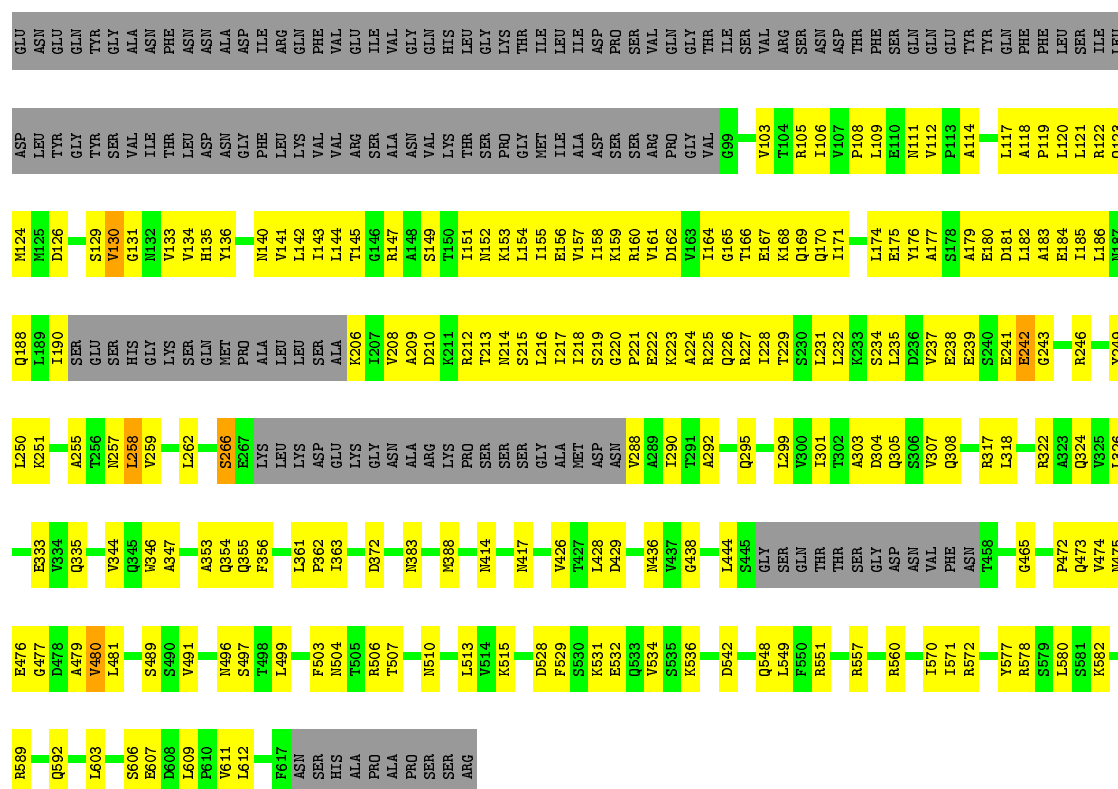
Chain D: 44% 30% 25%





- Molecule 1: Putative type II secretion system protein D

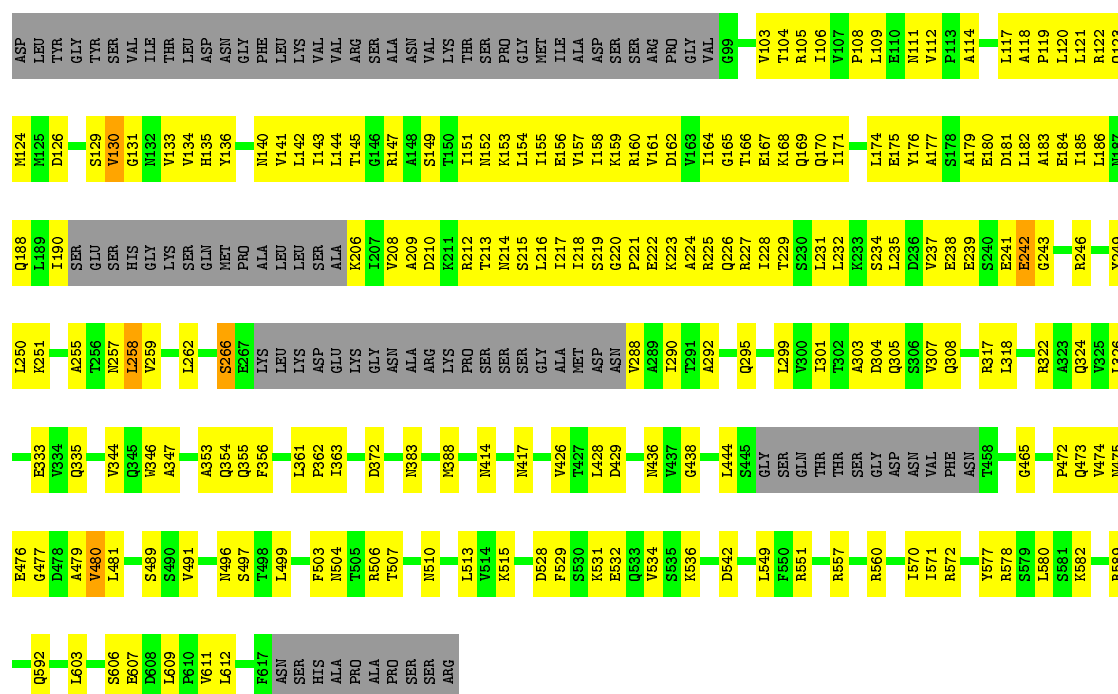
Chain E:



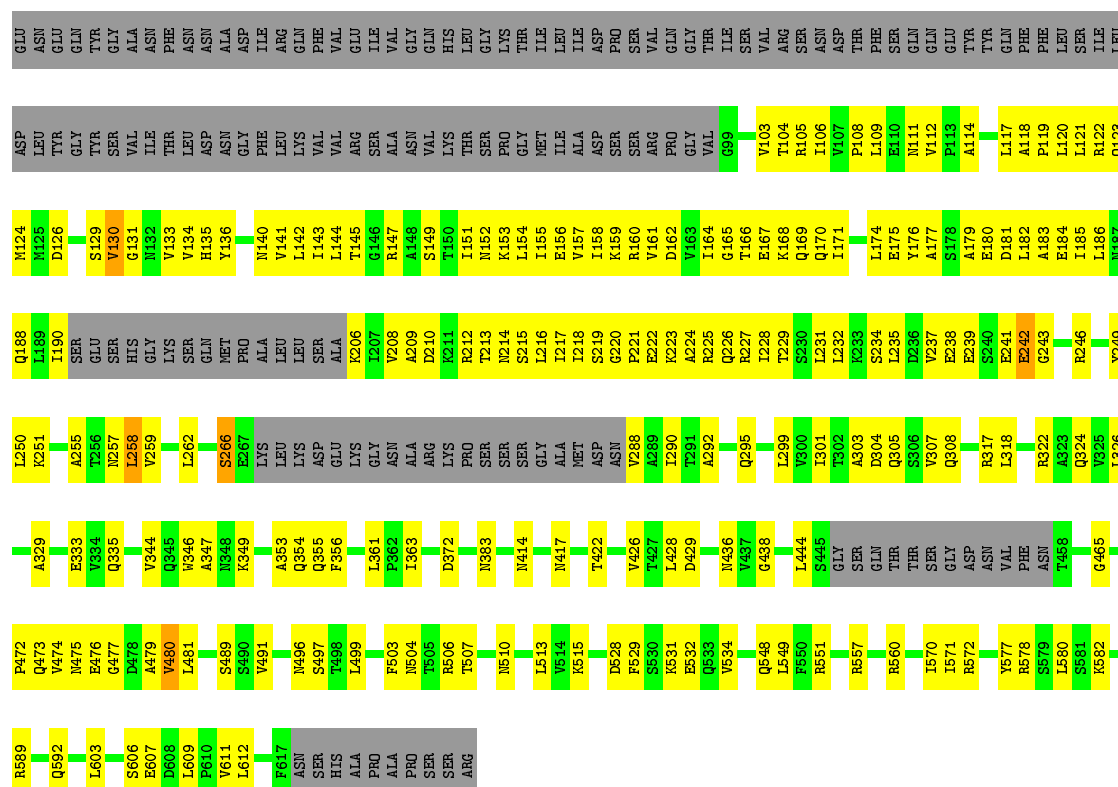
- Molecule 1: Putative type II secretion system protein D

Chain F:



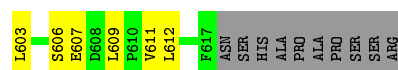


• Molecule 1: Putative type II secretion system protein D



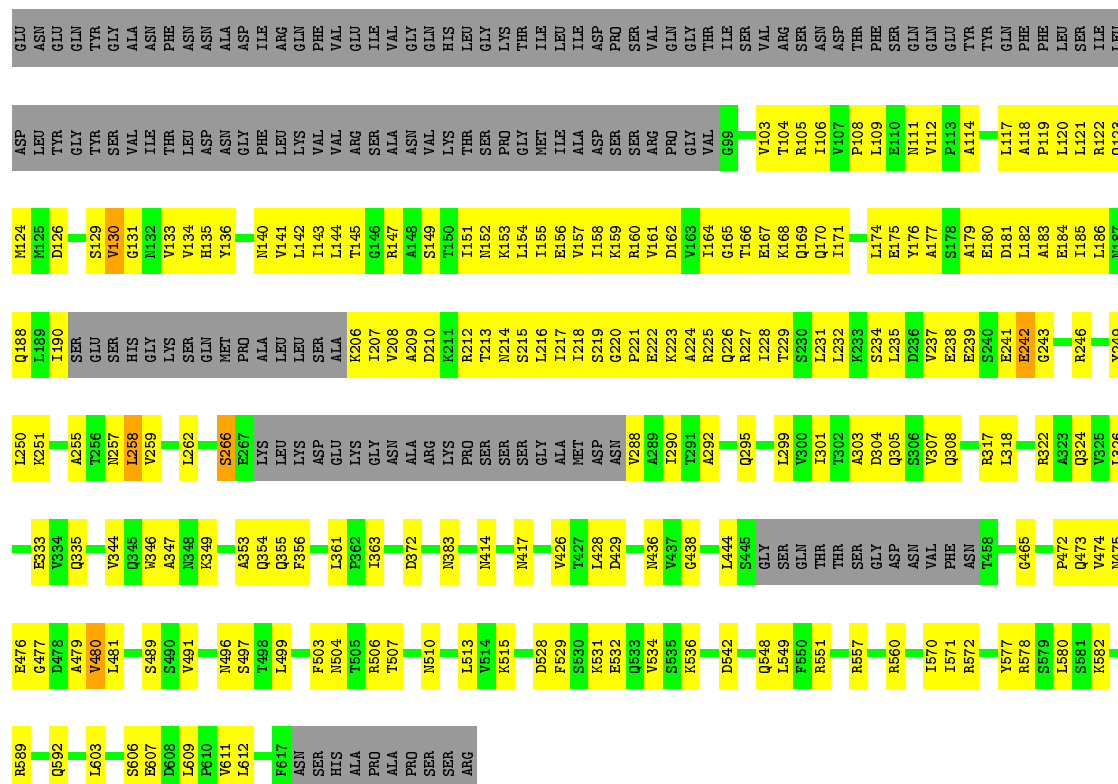
• Molecule 1: Putative type II secretion system protein D





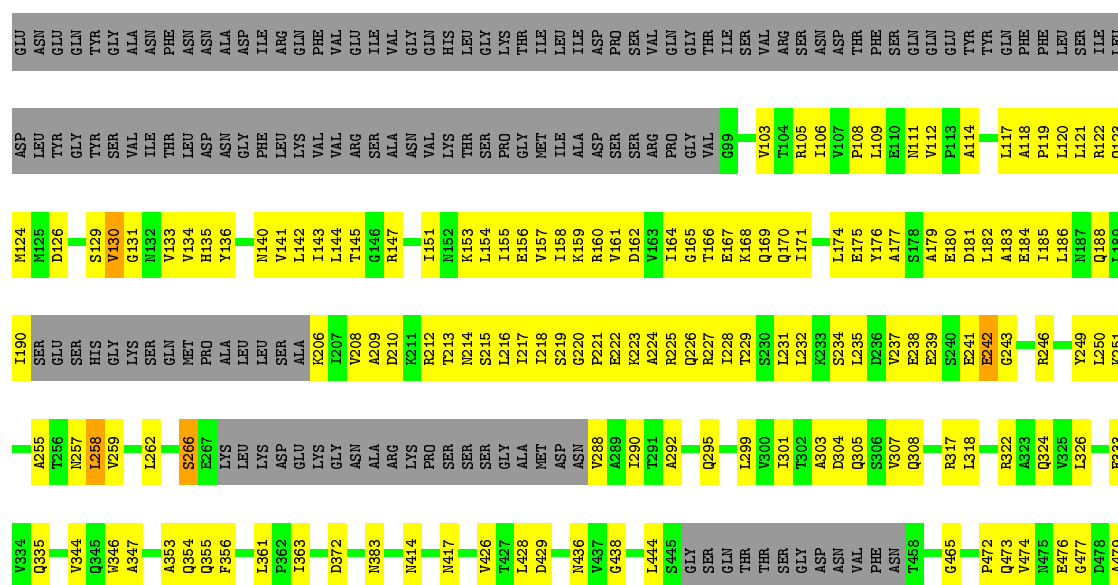
• Molecule 1: Putative type II secretion system protein D

Chain J: 44% 31% 25%



• Molecule 1: Putative type II secretion system protein D

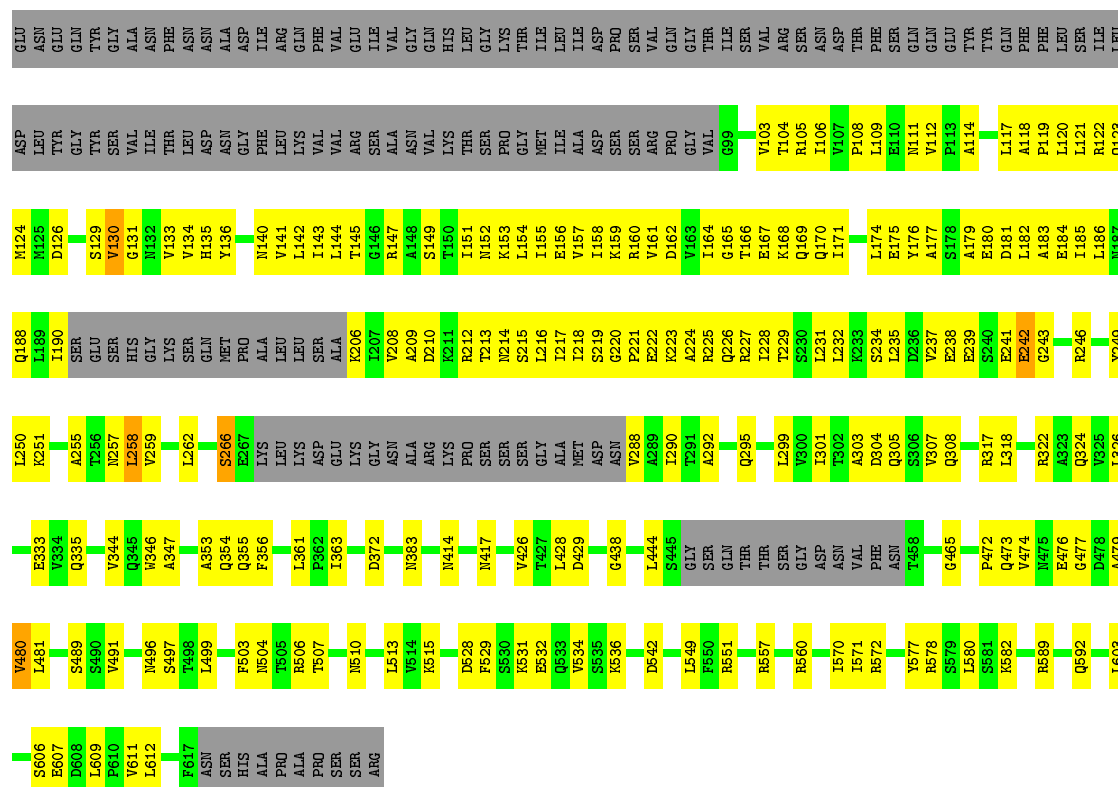
Chain K: 45% 30% 25%





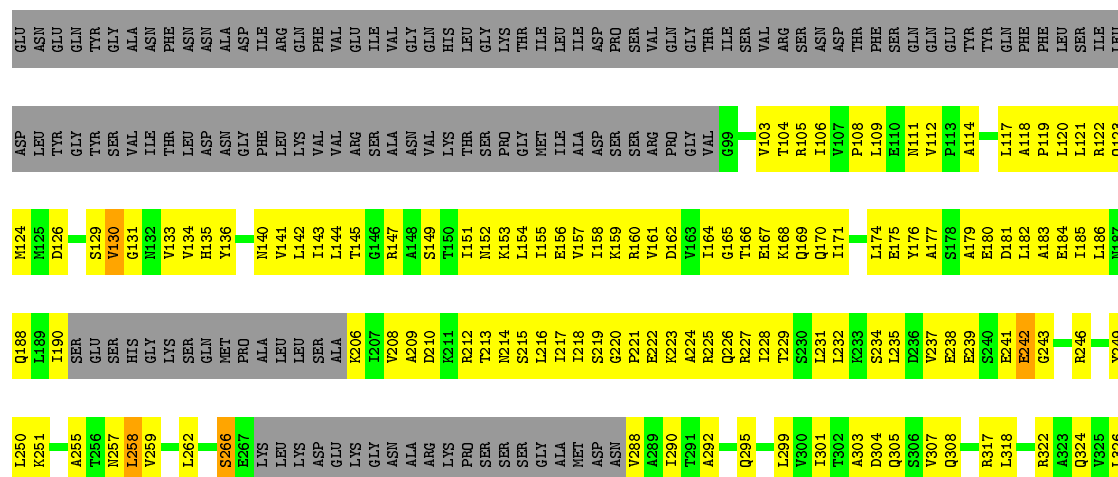
- Molecule 1: Putative type II secretion system protein D

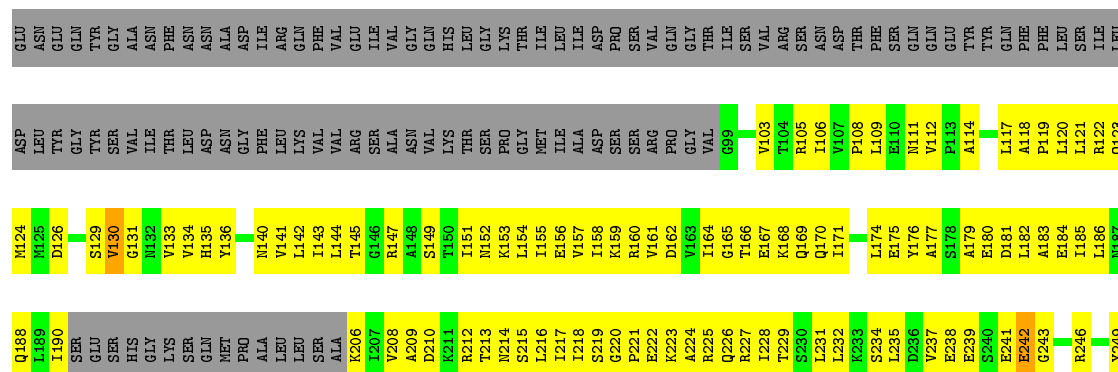
Chain L:  45% 30% • 25%



- Molecule 1: Putative type II secretion system protein D

Chain M:  44% 30% 25%





L250	E333	E476	R509
K251	V334	G477	Q592
A255	Q335	D478	L603
T256	V344	A479	S606
I257	Q345	V480	E607
L258	W346	L481	D608
V259	A347	S489	L609
L262	A353	S490	P610
S266	Q354	V491	V611
E267	Q355	N496	L612
LYS	F356	T498	F617
LEU	L361	L499	ASN
LYS	P362	F503	SER
ASP	I363	N504	HIS
GLU	D372	T505	ALA
LYS	N383	R506	PRO
GLY	M388	T507	ALA
ASN	N414	N510	PRO
ALA	N417	L513	SER
ARG	V426	V514	ARG
LYS	T427	R515	
PRO	L428	D528	
SER	D429	F529	
SER	N436	S530	
SER	V437	R531	
GLY	G438	E532	
ALA	L444	Q533	
MET	S445	V534	
ASP	GLY	S535	
ASN	GLN	R536	
V288	L299	D542	
A289	V300	Q548	
I290	I301	L549	
T291	T302	F550	
A292	A303	R551	
Q295	D304	R557	
GLY	Q305	R560	
S495	S306	I570	
LYS	V307	E571	
L299	Q308	R572	
V300	R317	Y577	
I301	L318	R578	
T302	R322	S579	
A303	A323	L580	
D304	Q324	S581	
Q305	V325	K582	
ASP	L326		
ASN			
VAL			
PHE			
ASN			
T468			
G465			
P472			
Q473			
V474			
N475			

4 Experimental information

Property	Value	Source
Reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	Depositor
Number of particles used	30659	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	Not provided	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	Not provided	Depositor
Minimum defocus (nm)	Not provided	Depositor
Maximum defocus (nm)	Not provided	Depositor
Magnification	Not provided	Depositor
Image detector	Not provided	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 2$	RMSZ	$\# Z > 2$
1	A	0.42	0/3673	0.59	1/4983 (0.0%)
1	B	0.42	0/3673	0.59	1/4983 (0.0%)
1	C	0.42	0/3673	0.59	1/4983 (0.0%)
1	D	0.42	0/3673	0.59	1/4983 (0.0%)
1	E	0.42	0/3673	0.59	1/4983 (0.0%)
1	F	0.42	0/3673	0.59	1/4983 (0.0%)
1	G	0.42	0/3673	0.59	1/4983 (0.0%)
1	H	0.42	0/3673	0.59	1/4983 (0.0%)
1	I	0.42	0/3673	0.59	1/4983 (0.0%)
1	J	0.42	0/3673	0.59	1/4983 (0.0%)
1	K	0.42	0/3673	0.59	1/4983 (0.0%)
1	L	0.42	0/3673	0.59	1/4983 (0.0%)
1	M	0.42	0/3673	0.59	1/4983 (0.0%)
1	N	0.42	0/3673	0.59	1/4983 (0.0%)
1	O	0.42	0/3673	0.59	1/4983 (0.0%)
All	All	0.42	0/55095	0.59	15/74745 (0.0%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
1	B	0	1
1	C	0	1
1	D	0	1
1	E	0	1
1	F	0	1
1	G	0	1
1	H	0	1
1	I	0	1
1	J	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	K	0	1
1	L	0	1
1	M	0	1
1	N	0	1
1	O	0	1
All	All	0	15

There are no bond length outliers.

All (15) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	266	SER	CB-CA-C	-5.47	99.70	110.10
1	L	266	SER	CB-CA-C	-5.47	99.70	110.10
1	B	266	SER	CB-CA-C	-5.46	99.73	110.10
1	D	266	SER	CB-CA-C	-5.46	99.73	110.10
1	O	266	SER	CB-CA-C	-5.45	99.74	110.10
1	K	266	SER	CB-CA-C	-5.45	99.74	110.10
1	A	266	SER	CB-CA-C	-5.45	99.74	110.10
1	N	266	SER	CB-CA-C	-5.45	99.75	110.10
1	E	266	SER	CB-CA-C	-5.45	99.75	110.10
1	I	266	SER	CB-CA-C	-5.45	99.75	110.10
1	M	266	SER	CB-CA-C	-5.44	99.76	110.10
1	F	266	SER	CB-CA-C	-5.44	99.76	110.10
1	G	266	SER	CB-CA-C	-5.44	99.77	110.10
1	C	266	SER	CB-CA-C	-5.44	99.77	110.10
1	J	266	SER	CB-CA-C	-5.42	99.79	110.10

There are no chirality outliers.

All (15) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	166	THR	Peptide
1	B	166	THR	Peptide
1	C	166	THR	Peptide
1	D	166	THR	Peptide
1	E	166	THR	Peptide
1	F	166	THR	Peptide
1	G	166	THR	Peptide
1	H	166	THR	Peptide
1	I	166	THR	Peptide
1	J	166	THR	Peptide

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Mol	Chain	Res	Type	Group
1	K	166	THR	Peptide
1	L	166	THR	Peptide
1	M	166	THR	Peptide
1	N	166	THR	Peptide
1	O	166	THR	Peptide

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	3632	0	3702	225	0
1	B	3632	0	3702	226	0
1	C	3632	0	3702	227	0
1	D	3632	0	3702	226	0
1	E	3632	0	3702	224	0
1	F	3632	0	3702	225	0
1	G	3632	0	3702	227	0
1	H	3632	0	3702	224	0
1	I	3632	0	3702	228	0
1	J	3632	0	3702	233	0
1	K	3632	0	3702	224	0
1	L	3632	0	3702	223	0
1	M	3632	0	3702	227	0
1	N	3632	0	3702	227	0
1	O	3632	0	3702	227	0
All	All	54480	0	55530	2956	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 27.

All (2956) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:210:ASP:O	1:B:214:ASN:HA	1.50	1.11
1:E:210:ASP:O	1:E:214:ASN:HA	1.50	1.11
1:H:210:ASP:O	1:H:214:ASN:HA	1.50	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:210:ASP:O	1:I:214:ASN:HA	1.50	1.11
1:A:210:ASP:O	1:A:214:ASN:HA	1.50	1.11
1:C:210:ASP:O	1:C:214:ASN:HA	1.50	1.11
1:G:210:ASP:O	1:G:214:ASN:HA	1.50	1.11
1:F:210:ASP:O	1:F:214:ASN:HA	1.50	1.11
1:J:210:ASP:O	1:J:214:ASN:HA	1.50	1.10
1:O:210:ASP:O	1:O:214:ASN:HA	1.51	1.10
1:D:210:ASP:O	1:D:214:ASN:HA	1.50	1.10
1:N:210:ASP:O	1:N:214:ASN:HA	1.50	1.09
1:K:210:ASP:O	1:K:214:ASN:HA	1.50	1.09
1:M:210:ASP:O	1:M:214:ASN:HA	1.50	1.08
1:L:210:ASP:O	1:L:214:ASN:HA	1.50	1.07
1:L:333:GLU:OE1	1:L:506:ARG:NH1	1.90	1.05
1:D:333:GLU:OE1	1:D:506:ARG:NH1	1.90	1.05
1:H:333:GLU:OE1	1:H:506:ARG:NH1	1.90	1.05
1:M:333:GLU:OE1	1:M:506:ARG:NH1	1.90	1.05
1:I:333:GLU:OE1	1:I:506:ARG:NH1	1.90	1.04
1:B:333:GLU:OE1	1:B:506:ARG:NH1	1.90	1.04
1:A:333:GLU:OE1	1:A:506:ARG:NH1	1.90	1.04
1:F:333:GLU:OE1	1:F:506:ARG:NH1	1.90	1.03
1:C:333:GLU:OE1	1:C:506:ARG:NH1	1.90	1.03
1:E:333:GLU:OE1	1:E:506:ARG:NH1	1.90	1.03
1:J:333:GLU:OE1	1:J:506:ARG:NH1	1.90	1.03
1:K:333:GLU:OE1	1:K:506:ARG:NH1	1.90	1.03
1:O:333:GLU:OE1	1:O:506:ARG:NH1	1.90	1.03
1:G:333:GLU:OE1	1:G:506:ARG:NH1	1.90	1.03
1:N:333:GLU:OE1	1:N:506:ARG:NH1	1.90	1.03
1:D:119:PRO:O	1:D:123:GLN:HB2	1.65	0.97
1:E:119:PRO:O	1:E:123:GLN:HB2	1.65	0.97
1:C:119:PRO:O	1:C:123:GLN:HB2	1.65	0.96
1:J:119:PRO:O	1:J:123:GLN:HB2	1.65	0.96
1:I:119:PRO:O	1:I:123:GLN:HB2	1.65	0.96
1:A:119:PRO:O	1:A:123:GLN:HB2	1.65	0.96
1:F:119:PRO:O	1:F:123:GLN:HB2	1.65	0.96
1:K:119:PRO:O	1:K:123:GLN:HB2	1.65	0.95
1:O:119:PRO:O	1:O:123:GLN:HB2	1.65	0.95
1:B:119:PRO:O	1:B:123:GLN:HB2	1.65	0.95
1:H:119:PRO:O	1:H:123:GLN:HB2	1.65	0.95
1:K:212:ARG:HH22	1:L:177:ALA:HB1	1.32	0.95
1:G:119:PRO:O	1:G:123:GLN:HB2	1.65	0.95
1:N:119:PRO:O	1:N:123:GLN:HB2	1.65	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:212:ARG:HH22	1:I:177:ALA:HB1	1.31	0.94
1:N:212:ARG:HH22	1:O:177:ALA:HB1	1.32	0.94
1:L:119:PRO:O	1:L:123:GLN:HB2	1.65	0.94
1:M:119:PRO:O	1:M:123:GLN:HB2	1.65	0.94
1:L:212:ARG:HH22	1:M:177:ALA:HB1	1.32	0.94
1:A:218:ILE:HG12	1:A:228:ILE:HG21	1.49	0.94
1:O:218:ILE:HG12	1:O:228:ILE:HG21	1.49	0.94
1:I:212:ARG:HH22	1:J:177:ALA:HB1	1.31	0.94
1:B:218:ILE:HG12	1:B:228:ILE:HG21	1.49	0.93
1:N:218:ILE:HG12	1:N:228:ILE:HG21	1.49	0.93
1:H:218:ILE:HG12	1:H:228:ILE:HG21	1.49	0.93
1:I:218:ILE:HG12	1:I:228:ILE:HG21	1.49	0.93
1:J:212:ARG:HH22	1:K:177:ALA:HB1	1.32	0.93
1:G:218:ILE:HG12	1:G:228:ILE:HG21	1.49	0.93
1:C:218:ILE:HG12	1:C:228:ILE:HG21	1.49	0.93
1:M:212:ARG:HH22	1:N:177:ALA:HB1	1.31	0.93
1:A:177:ALA:HB1	1:O:212:ARG:HH22	1.32	0.93
1:J:218:ILE:HG12	1:J:228:ILE:HG21	1.49	0.93
1:B:212:ARG:HH22	1:C:177:ALA:HB1	1.32	0.92
1:M:218:ILE:HG12	1:M:228:ILE:HG21	1.49	0.92
1:E:212:ARG:HH22	1:F:177:ALA:HB1	1.32	0.92
1:F:218:ILE:HG12	1:F:228:ILE:HG21	1.49	0.92
1:G:212:ARG:HH22	1:H:177:ALA:HB1	1.32	0.92
1:F:212:ARG:HH22	1:G:177:ALA:HB1	1.32	0.92
1:D:218:ILE:HG12	1:D:228:ILE:HG21	1.49	0.92
1:L:218:ILE:HG12	1:L:228:ILE:HG21	1.49	0.91
1:A:212:ARG:HH22	1:B:177:ALA:HB1	1.31	0.91
1:K:218:ILE:HG12	1:K:228:ILE:HG21	1.49	0.91
1:C:212:ARG:HH22	1:D:177:ALA:HB1	1.32	0.91
1:E:218:ILE:HG12	1:E:228:ILE:HG21	1.49	0.91
1:D:212:ARG:HH22	1:E:177:ALA:HB1	1.31	0.90
1:N:210:ASP:OD2	1:N:213:THR:OG1	1.91	0.89
1:J:210:ASP:OD2	1:J:213:THR:OG1	1.92	0.88
1:C:109:LEU:O	1:C:140:ASN:ND2	2.07	0.88
1:K:210:ASP:OD2	1:K:213:THR:OG1	1.91	0.88
1:I:109:LEU:O	1:I:140:ASN:ND2	2.07	0.88
1:B:109:LEU:O	1:B:140:ASN:ND2	2.07	0.88
1:E:109:LEU:O	1:E:140:ASN:ND2	2.07	0.88
1:G:109:LEU:O	1:G:140:ASN:ND2	2.07	0.88
1:F:109:LEU:O	1:F:140:ASN:ND2	2.07	0.88
1:M:210:ASP:OD2	1:M:213:THR:OG1	1.91	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:210:ASP:OD2	1:O:213:THR:OG1	1.91	0.88
1:A:109:LEU:O	1:A:140:ASN:ND2	2.07	0.88
1:G:210:ASP:OD2	1:G:213:THR:OG1	1.91	0.88
1:J:109:LEU:O	1:J:140:ASN:ND2	2.07	0.88
1:B:210:ASP:OD2	1:B:213:THR:OG1	1.91	0.87
1:H:109:LEU:O	1:H:140:ASN:ND2	2.07	0.87
1:I:210:ASP:OD2	1:I:213:THR:OG1	1.91	0.87
1:C:210:ASP:OD2	1:C:213:THR:OG1	1.92	0.87
1:K:109:LEU:O	1:K:140:ASN:ND2	2.07	0.87
1:M:109:LEU:O	1:M:140:ASN:ND2	2.07	0.87
1:F:210:ASP:OD2	1:F:213:THR:OG1	1.91	0.87
1:D:109:LEU:O	1:D:140:ASN:ND2	2.07	0.87
1:H:210:ASP:OD2	1:H:213:THR:OG1	1.91	0.87
1:N:109:LEU:O	1:N:140:ASN:ND2	2.07	0.87
1:L:109:LEU:O	1:L:140:ASN:ND2	2.07	0.87
1:L:210:ASP:OD2	1:L:213:THR:OG1	1.92	0.87
1:A:210:ASP:OD2	1:A:213:THR:OG1	1.91	0.86
1:O:109:LEU:O	1:O:140:ASN:ND2	2.07	0.86
1:D:210:ASP:OD2	1:D:213:THR:OG1	1.91	0.86
1:O:206:LYS:N	1:O:219:SER:HG	1.74	0.86
1:L:206:LYS:N	1:L:219:SER:HG	1.74	0.86
1:F:242:GLU:CG	1:F:243:GLY:H	1.89	0.86
1:J:206:LYS:N	1:J:219:SER:HG	1.74	0.86
1:K:242:GLU:CG	1:K:243:GLY:H	1.89	0.86
1:M:242:GLU:CG	1:M:243:GLY:H	1.89	0.86
1:M:206:LYS:N	1:M:219:SER:HG	1.74	0.85
1:D:242:GLU:CG	1:D:243:GLY:H	1.89	0.85
1:E:210:ASP:OD2	1:E:213:THR:OG1	1.92	0.85
1:G:206:LYS:N	1:G:219:SER:HG	1.74	0.85
1:H:242:GLU:CG	1:H:243:GLY:H	1.89	0.85
1:I:206:LYS:N	1:I:219:SER:HG	1.74	0.85
1:A:206:LYS:N	1:A:219:SER:HG	1.75	0.85
1:A:242:GLU:CG	1:A:243:GLY:H	1.89	0.85
1:B:242:GLU:CG	1:B:243:GLY:H	1.89	0.85
1:C:206:LYS:N	1:C:219:SER:HG	1.74	0.85
1:N:206:LYS:N	1:N:219:SER:HG	1.74	0.85
1:B:206:LYS:N	1:B:219:SER:HG	1.74	0.85
1:F:206:LYS:N	1:F:219:SER:HG	1.74	0.85
1:I:242:GLU:CG	1:I:243:GLY:H	1.89	0.85
1:J:242:GLU:CG	1:J:243:GLY:H	1.89	0.85
1:C:242:GLU:CG	1:C:243:GLY:H	1.89	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:206:LYS:N	1:E:219:SER:HG	1.74	0.85
1:K:206:LYS:N	1:K:219:SER:HG	1.74	0.85
1:N:242:GLU:CG	1:N:243:GLY:H	1.89	0.85
1:G:242:GLU:CG	1:G:243:GLY:H	1.89	0.85
1:O:242:GLU:CG	1:O:243:GLY:H	1.89	0.85
1:H:206:LYS:N	1:H:219:SER:HG	1.74	0.84
1:E:242:GLU:CG	1:E:243:GLY:H	1.89	0.84
1:L:242:GLU:CG	1:L:243:GLY:H	1.89	0.84
1:D:206:LYS:N	1:D:219:SER:HG	1.74	0.83
1:B:109:LEU:HD23	1:B:114:ALA:HA	1.61	0.83
1:L:109:LEU:HD23	1:L:114:ALA:HA	1.61	0.83
1:K:109:LEU:HD23	1:K:114:ALA:HA	1.61	0.83
1:N:109:LEU:HD23	1:N:114:ALA:HA	1.61	0.83
1:C:109:LEU:HD23	1:C:114:ALA:HA	1.61	0.83
1:D:109:LEU:HD23	1:D:114:ALA:HA	1.61	0.83
1:E:109:LEU:HD23	1:E:114:ALA:HA	1.61	0.83
1:I:109:LEU:HD23	1:I:114:ALA:HA	1.61	0.83
1:A:109:LEU:HD23	1:A:114:ALA:HA	1.61	0.82
1:O:109:LEU:HD23	1:O:114:ALA:HA	1.61	0.82
1:H:109:LEU:HD23	1:H:114:ALA:HA	1.61	0.82
1:J:109:LEU:HD23	1:J:114:ALA:HA	1.61	0.82
1:M:109:LEU:HD23	1:M:114:ALA:HA	1.61	0.82
1:F:109:LEU:HD23	1:F:114:ALA:HA	1.61	0.82
1:G:109:LEU:HD23	1:G:114:ALA:HA	1.61	0.82
1:L:117:LEU:HD21	1:L:161:VAL:HG21	1.62	0.82
1:O:117:LEU:HD21	1:O:161:VAL:HG21	1.62	0.81
1:J:117:LEU:HD21	1:J:161:VAL:HG21	1.63	0.81
1:N:117:LEU:HD21	1:N:161:VAL:HG21	1.63	0.81
1:K:258:LEU:HD21	1:K:318:LEU:HD23	1.63	0.81
1:L:258:LEU:HD21	1:L:318:LEU:HD23	1.63	0.81
1:M:117:LEU:HD21	1:M:161:VAL:HG21	1.62	0.81
1:A:117:LEU:HD21	1:A:161:VAL:HG21	1.62	0.81
1:I:258:LEU:HD21	1:I:318:LEU:HD23	1.63	0.81
1:J:258:LEU:HD21	1:J:318:LEU:HD23	1.63	0.81
1:B:117:LEU:HD21	1:B:161:VAL:HG21	1.63	0.81
1:I:117:LEU:HD21	1:I:161:VAL:HG21	1.63	0.81
1:K:117:LEU:HD21	1:K:161:VAL:HG21	1.63	0.81
1:G:258:LEU:HD21	1:G:318:LEU:HD23	1.63	0.81
1:N:258:LEU:HD21	1:N:318:LEU:HD23	1.63	0.81
1:C:117:LEU:HD21	1:C:161:VAL:HG21	1.63	0.80
1:H:258:LEU:HD21	1:H:318:LEU:HD23	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:117:LEU:HD21	1:G:161:VAL:HG21	1.62	0.80
1:M:258:LEU:HD21	1:M:318:LEU:HD23	1.63	0.80
1:H:117:LEU:HD21	1:H:161:VAL:HG21	1.62	0.80
1:F:117:LEU:HD21	1:F:161:VAL:HG21	1.63	0.80
1:F:258:LEU:HD21	1:F:318:LEU:HD23	1.63	0.80
1:O:258:LEU:HD21	1:O:318:LEU:HD23	1.63	0.80
1:E:117:LEU:HD21	1:E:161:VAL:HG21	1.63	0.80
1:F:242:GLU:CG	1:F:243:GLY:N	2.45	0.80
1:I:141:VAL:HG21	1:J:164:ILE:HD12	1.64	0.80
1:K:242:GLU:CG	1:K:243:GLY:N	2.45	0.80
1:D:117:LEU:HD21	1:D:161:VAL:HG21	1.63	0.80
1:H:141:VAL:HG21	1:I:164:ILE:HD12	1.64	0.80
1:E:242:GLU:HG2	1:E:243:GLY:N	1.97	0.79
1:O:242:GLU:CG	1:O:243:GLY:N	2.45	0.79
1:J:242:GLU:HG2	1:J:243:GLY:N	1.97	0.79
1:L:242:GLU:HG2	1:L:243:GLY:N	1.97	0.79
1:G:242:GLU:HG2	1:G:243:GLY:N	1.98	0.79
1:J:141:VAL:HG21	1:K:164:ILE:HD12	1.64	0.79
1:M:242:GLU:HG2	1:M:243:GLY:N	1.97	0.79
1:D:258:LEU:HD21	1:D:318:LEU:HD23	1.63	0.79
1:E:242:GLU:CG	1:E:243:GLY:N	2.45	0.79
1:H:242:GLU:HG2	1:H:243:GLY:N	1.97	0.79
1:A:258:LEU:HD21	1:A:318:LEU:HD23	1.63	0.79
1:B:258:LEU:HD21	1:B:318:LEU:HD23	1.63	0.79
1:E:258:LEU:HD21	1:E:318:LEU:HD23	1.63	0.79
1:F:242:GLU:HG2	1:F:243:GLY:N	1.97	0.79
1:G:141:VAL:HG21	1:H:164:ILE:HD12	1.64	0.79
1:I:242:GLU:CG	1:I:243:GLY:N	2.45	0.79
1:O:242:GLU:HG2	1:O:243:GLY:N	1.98	0.79
1:C:242:GLU:CG	1:C:243:GLY:N	2.45	0.79
1:C:258:LEU:HD21	1:C:318:LEU:HD23	1.63	0.79
1:G:212:ARG:NE	1:H:181:ASP:OD2	2.16	0.79
1:I:242:GLU:HG2	1:I:243:GLY:N	1.97	0.79
1:C:242:GLU:HG2	1:C:243:GLY:N	1.97	0.79
1:F:212:ARG:NE	1:G:181:ASP:OD2	2.16	0.79
1:N:212:ARG:NE	1:O:181:ASP:OD2	2.16	0.79
1:A:181:ASP:OD2	1:O:212:ARG:NE	2.16	0.79
1:G:242:GLU:CG	1:G:243:GLY:N	2.45	0.79
1:H:212:ARG:NE	1:I:181:ASP:OD2	2.16	0.79
1:L:242:GLU:CG	1:L:243:GLY:N	2.45	0.78
1:M:242:GLU:CG	1:M:243:GLY:N	2.45	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:212:ARG:NE	1:N:181:ASP:OD2	2.16	0.78
1:A:212:ARG:NE	1:B:181:ASP:OD2	2.16	0.78
1:D:242:GLU:CG	1:D:243:GLY:N	2.45	0.78
1:B:242:GLU:HG2	1:B:243:GLY:N	1.97	0.78
1:N:242:GLU:HG2	1:N:243:GLY:N	1.97	0.78
1:K:141:VAL:HG21	1:L:164:ILE:HD12	1.64	0.78
1:N:141:VAL:HG21	1:O:164:ILE:HD12	1.64	0.78
1:J:242:GLU:CG	1:J:243:GLY:N	2.45	0.78
1:M:141:VAL:HG21	1:N:164:ILE:HD12	1.64	0.78
1:A:164:ILE:HD12	1:O:141:VAL:HG21	1.64	0.78
1:C:212:ARG:NE	1:D:181:ASP:OD2	2.16	0.78
1:E:212:ARG:NE	1:F:181:ASP:OD2	2.16	0.78
1:F:141:VAL:HG21	1:G:164:ILE:HD12	1.64	0.78
1:K:242:GLU:HG2	1:K:243:GLY:N	1.97	0.78
1:L:212:ARG:NE	1:M:181:ASP:OD2	2.16	0.78
1:N:242:GLU:CG	1:N:243:GLY:N	2.45	0.78
1:A:141:VAL:HG21	1:B:164:ILE:HD12	1.64	0.78
1:A:242:GLU:CG	1:A:243:GLY:N	2.45	0.78
1:B:212:ARG:NE	1:C:181:ASP:OD2	2.16	0.78
1:I:212:ARG:NE	1:J:181:ASP:OD2	2.16	0.78
1:D:212:ARG:NE	1:E:181:ASP:OD2	2.16	0.77
1:B:141:VAL:HG21	1:C:164:ILE:HD12	1.64	0.77
1:C:141:VAL:HG21	1:D:164:ILE:HD12	1.64	0.77
1:D:141:VAL:HG21	1:E:164:ILE:HD12	1.64	0.77
1:L:141:VAL:HG21	1:M:164:ILE:HD12	1.64	0.77
1:A:242:GLU:HG2	1:A:243:GLY:N	1.97	0.77
1:D:242:GLU:HG2	1:D:243:GLY:N	1.98	0.77
1:K:212:ARG:NE	1:L:181:ASP:OD2	2.16	0.77
1:E:141:VAL:HG21	1:F:164:ILE:HD12	1.64	0.77
1:E:295:GLN:HG2	1:F:257:ASN:HD21	1.50	0.77
1:G:295:GLN:HG2	1:H:257:ASN:HD21	1.50	0.77
1:J:295:GLN:HG2	1:K:257:ASN:HD21	1.50	0.76
1:B:242:GLU:CG	1:B:243:GLY:N	2.45	0.76
1:J:212:ARG:NE	1:K:181:ASP:OD2	2.16	0.76
1:C:295:GLN:HG2	1:D:257:ASN:HD21	1.50	0.76
1:L:295:GLN:HG2	1:M:257:ASN:HD21	1.50	0.76
1:H:295:GLN:HG2	1:I:257:ASN:HD21	1.50	0.76
1:I:295:GLN:HG2	1:J:257:ASN:HD21	1.50	0.76
1:B:295:GLN:HG2	1:C:257:ASN:HD21	1.50	0.76
1:K:609:LEU:HG	1:M:528:ASP:OD2	1.86	0.76
1:B:609:LEU:HG	1:D:528:ASP:OD2	1.86	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:257:ASN:HD21	1:O:295:GLN:HG2	1.50	0.75
1:A:609:LEU:HG	1:C:528:ASP:OD2	1.86	0.75
1:C:609:LEU:HG	1:E:528:ASP:OD2	1.86	0.75
1:F:609:LEU:HG	1:H:528:ASP:OD2	1.86	0.75
1:I:609:LEU:HG	1:K:528:ASP:OD2	1.86	0.75
1:J:609:LEU:HG	1:L:528:ASP:OD2	1.86	0.75
1:L:609:LEU:HG	1:N:528:ASP:OD2	1.86	0.75
1:B:528:ASP:OD2	1:O:609:LEU:HG	1.86	0.75
1:D:609:LEU:HG	1:F:528:ASP:OD2	1.86	0.75
1:H:609:LEU:HG	1:J:528:ASP:OD2	1.86	0.75
1:A:108:PRO:HB3	1:A:141:VAL:HG12	1.69	0.75
1:B:108:PRO:HB3	1:B:141:VAL:HG12	1.69	0.75
1:C:108:PRO:HB3	1:C:141:VAL:HG12	1.69	0.75
1:E:609:LEU:HG	1:G:528:ASP:OD2	1.86	0.75
1:O:108:PRO:HB3	1:O:141:VAL:HG12	1.69	0.75
1:D:295:GLN:HG2	1:E:257:ASN:HD21	1.50	0.75
1:A:528:ASP:OD2	1:N:609:LEU:HG	1.86	0.75
1:D:108:PRO:HB3	1:D:141:VAL:HG12	1.69	0.75
1:G:609:LEU:HG	1:I:528:ASP:OD2	1.86	0.75
1:N:295:GLN:HG2	1:O:257:ASN:HD21	1.50	0.75
1:F:295:GLN:HG2	1:G:257:ASN:HD21	1.50	0.75
1:G:295:GLN:NE2	1:H:322:ARG:HH12	1.85	0.75
1:N:295:GLN:NE2	1:O:322:ARG:HH12	1.85	0.75
1:C:114:ALA:HB1	1:C:142:LEU:HD12	1.69	0.75
1:N:108:PRO:HB3	1:N:141:VAL:HG12	1.69	0.75
1:M:295:GLN:HG2	1:N:257:ASN:HD21	1.50	0.75
1:D:295:GLN:NE2	1:E:322:ARG:HH12	1.85	0.74
1:I:114:ALA:HB1	1:I:142:LEU:HD12	1.69	0.74
1:L:108:PRO:HB3	1:L:141:VAL:HG12	1.69	0.74
1:M:108:PRO:HB3	1:M:141:VAL:HG12	1.69	0.74
1:A:114:ALA:HB1	1:A:142:LEU:HD12	1.69	0.74
1:A:295:GLN:NE2	1:B:322:ARG:HH12	1.85	0.74
1:E:114:ALA:HB1	1:E:142:LEU:HD12	1.69	0.74
1:G:114:ALA:HB1	1:G:142:LEU:HD12	1.69	0.74
1:E:108:PRO:HB3	1:E:141:VAL:HG12	1.69	0.74
1:E:295:GLN:NE2	1:F:322:ARG:HH12	1.85	0.74
1:H:295:GLN:NE2	1:I:322:ARG:HH12	1.85	0.74
1:K:295:GLN:HG2	1:L:257:ASN:HD21	1.50	0.74
1:M:609:LEU:HG	1:O:528:ASP:OD2	1.86	0.74
1:B:326:LEU:HD22	1:B:580:LEU:HD21	1.69	0.74
1:C:326:LEU:HD22	1:C:580:LEU:HD21	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:295:GLN:NE2	1:K:322:ARG:HH12	1.85	0.74
1:K:114:ALA:HB1	1:K:142:LEU:HD12	1.69	0.74
1:D:326:LEU:HD22	1:D:580:LEU:HD21	1.69	0.74
1:K:108:PRO:HB3	1:K:141:VAL:HG12	1.69	0.74
1:A:295:GLN:HG2	1:B:257:ASN:HD21	1.50	0.74
1:H:242:GLU:CG	1:H:243:GLY:N	2.45	0.74
1:M:114:ALA:HB1	1:M:142:LEU:HD12	1.69	0.74
1:L:295:GLN:NE2	1:M:322:ARG:HH12	1.85	0.74
1:B:295:GLN:NE2	1:C:322:ARG:HH12	1.85	0.74
1:H:114:ALA:HB1	1:H:142:LEU:HD12	1.69	0.74
1:H:111:ASN:ND2	1:H:162:ASP:O	2.21	0.74
1:A:326:LEU:HD22	1:A:580:LEU:HD21	1.69	0.74
1:G:111:ASN:ND2	1:G:162:ASP:O	2.21	0.74
1:K:295:GLN:NE2	1:L:322:ARG:HH12	1.85	0.74
1:F:108:PRO:HB3	1:F:141:VAL:HG12	1.69	0.73
1:F:114:ALA:HB1	1:F:142:LEU:HD12	1.69	0.73
1:J:108:PRO:HB3	1:J:141:VAL:HG12	1.69	0.73
1:O:114:ALA:HB1	1:O:142:LEU:HD12	1.69	0.73
1:B:114:ALA:HB1	1:B:142:LEU:HD12	1.69	0.73
1:E:112:VAL:O	1:E:140:ASN:ND2	2.21	0.73
1:N:114:ALA:HB1	1:N:142:LEU:HD12	1.69	0.73
1:A:111:ASN:ND2	1:A:162:ASP:O	2.21	0.73
1:D:114:ALA:HB1	1:D:142:LEU:HD12	1.69	0.73
1:I:295:GLN:NE2	1:J:322:ARG:HH12	1.85	0.73
1:L:326:LEU:HD22	1:L:580:LEU:HD21	1.69	0.73
1:M:324:GLN:NE2	1:N:513:LEU:H	1.87	0.73
1:M:295:GLN:NE2	1:N:322:ARG:HH12	1.85	0.73
1:A:324:GLN:NE2	1:B:513:LEU:H	1.87	0.73
1:D:324:GLN:NE2	1:E:513:LEU:H	1.87	0.73
1:E:326:LEU:HD22	1:E:580:LEU:HD21	1.69	0.73
1:F:295:GLN:NE2	1:G:322:ARG:HH12	1.85	0.73
1:K:326:LEU:HD22	1:K:580:LEU:HD21	1.69	0.73
1:A:513:LEU:H	1:O:324:GLN:NE2	1.87	0.73
1:B:111:ASN:ND2	1:B:162:ASP:O	2.21	0.73
1:B:112:VAL:O	1:B:140:ASN:ND2	2.21	0.73
1:G:108:PRO:HB3	1:G:141:VAL:HG12	1.69	0.73
1:I:108:PRO:HB3	1:I:141:VAL:HG12	1.69	0.73
1:B:103:VAL:HG21	1:B:105:ARG:HH21	1.54	0.73
1:F:111:ASN:ND2	1:F:162:ASP:O	2.21	0.73
1:G:324:GLN:NE2	1:H:513:LEU:H	1.87	0.73
1:H:108:PRO:HB3	1:H:141:VAL:HG12	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:208:VAL:HB	1:I:217:ILE:HB	1.71	0.73
1:J:114:ALA:HB1	1:J:142:LEU:HD12	1.69	0.73
1:L:112:VAL:O	1:L:140:ASN:ND2	2.21	0.73
1:B:208:VAL:HB	1:B:217:ILE:HB	1.71	0.73
1:J:324:GLN:NE2	1:K:513:LEU:H	1.87	0.73
1:L:103:VAL:HG21	1:L:105:ARG:HH21	1.54	0.73
1:M:326:LEU:HD22	1:M:580:LEU:HD21	1.69	0.73
1:A:208:VAL:HB	1:A:217:ILE:HB	1.71	0.73
1:C:103:VAL:HG21	1:C:105:ARG:HH21	1.54	0.73
1:H:208:VAL:HB	1:H:217:ILE:HB	1.71	0.73
1:J:208:VAL:HB	1:J:217:ILE:HB	1.71	0.73
1:J:326:LEU:HD22	1:J:580:LEU:HD21	1.69	0.73
1:A:181:ASP:O	1:A:184:GLU:N	2.22	0.73
1:B:324:GLN:NE2	1:C:513:LEU:H	1.87	0.73
1:C:208:VAL:HB	1:C:217:ILE:HB	1.71	0.73
1:C:295:GLN:NE2	1:D:322:ARG:HH12	1.85	0.73
1:C:324:GLN:NE2	1:D:513:LEU:H	1.87	0.73
1:O:181:ASP:O	1:O:184:GLU:N	2.22	0.73
1:G:326:LEU:HD22	1:G:580:LEU:HD21	1.69	0.73
1:H:103:VAL:HG21	1:H:105:ARG:HH21	1.54	0.73
1:H:326:LEU:HD22	1:H:580:LEU:HD21	1.69	0.73
1:J:181:ASP:O	1:J:184:GLU:N	2.22	0.73
1:K:103:VAL:HG21	1:K:105:ARG:HH21	1.54	0.73
1:M:103:VAL:HG21	1:M:105:ARG:HH21	1.54	0.73
1:O:326:LEU:HD22	1:O:580:LEU:HD21	1.69	0.73
1:C:111:ASN:ND2	1:C:162:ASP:O	2.21	0.72
1:F:324:GLN:NE2	1:G:513:LEU:H	1.87	0.72
1:I:326:LEU:HD22	1:I:580:LEU:HD21	1.69	0.72
1:A:103:VAL:HG21	1:A:105:ARG:HH21	1.54	0.72
1:B:181:ASP:O	1:B:184:GLU:N	2.22	0.72
1:D:103:VAL:HG21	1:D:105:ARG:HH21	1.54	0.72
1:D:208:VAL:HB	1:D:217:ILE:HB	1.71	0.72
1:D:262:LEU:HD12	1:D:299:LEU:HD21	1.72	0.72
1:E:181:ASP:O	1:E:184:GLU:N	2.22	0.72
1:F:181:ASP:O	1:F:184:GLU:N	2.22	0.72
1:G:181:ASP:O	1:G:184:GLU:N	2.22	0.72
1:G:262:LEU:HD12	1:G:299:LEU:HD21	1.71	0.72
1:H:112:VAL:O	1:H:140:ASN:ND2	2.21	0.72
1:H:262:LEU:HD12	1:H:299:LEU:HD21	1.71	0.72
1:K:208:VAL:HB	1:K:217:ILE:HB	1.71	0.72
1:N:181:ASP:O	1:N:184:GLU:N	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:324:GLN:NE2	1:O:513:LEU:H	1.87	0.72
1:O:208:VAL:HB	1:O:217:ILE:HB	1.71	0.72
1:A:112:VAL:O	1:A:140:ASN:ND2	2.21	0.72
1:A:262:LEU:HD12	1:A:299:LEU:HD21	1.72	0.72
1:C:262:LEU:HD12	1:C:299:LEU:HD21	1.72	0.72
1:D:181:ASP:O	1:D:184:GLU:N	2.22	0.72
1:E:262:LEU:HD12	1:E:299:LEU:HD21	1.71	0.72
1:F:262:LEU:HD12	1:F:299:LEU:HD21	1.71	0.72
1:G:208:VAL:HB	1:G:217:ILE:HB	1.71	0.72
1:H:181:ASP:O	1:H:184:GLU:N	2.22	0.72
1:I:181:ASP:O	1:I:184:GLU:N	2.22	0.72
1:L:324:GLN:NE2	1:M:513:LEU:H	1.87	0.72
1:C:181:ASP:O	1:C:184:GLU:N	2.22	0.72
1:E:208:VAL:HB	1:E:217:ILE:HB	1.71	0.72
1:E:324:GLN:NE2	1:F:513:LEU:H	1.87	0.72
1:I:324:GLN:NE2	1:J:513:LEU:H	1.87	0.72
1:K:181:ASP:O	1:K:184:GLU:N	2.22	0.72
1:K:206:LYS:N	1:K:219:SER:OG	2.23	0.72
1:K:324:GLN:NE2	1:L:513:LEU:H	1.87	0.72
1:L:114:ALA:HB1	1:L:142:LEU:HD12	1.69	0.72
1:N:326:LEU:HD22	1:N:580:LEU:HD21	1.69	0.72
1:O:262:LEU:HD12	1:O:299:LEU:HD21	1.72	0.72
1:F:103:VAL:HG21	1:F:105:ARG:HH21	1.54	0.72
1:J:206:LYS:N	1:J:219:SER:OG	2.23	0.72
1:K:210:ASP:O	1:K:214:ASN:CA	2.36	0.72
1:L:208:VAL:HB	1:L:217:ILE:HB	1.71	0.72
1:F:208:VAL:HB	1:F:217:ILE:HB	1.71	0.72
1:F:326:LEU:HD22	1:F:580:LEU:HD21	1.69	0.72
1:J:103:VAL:HG21	1:J:105:ARG:HH21	1.54	0.72
1:N:208:VAL:HB	1:N:217:ILE:HB	1.71	0.72
1:A:322:ARG:HH12	1:O:295:GLN:NE2	1.85	0.72
1:B:262:LEU:HD12	1:B:299:LEU:HD21	1.71	0.72
1:E:288:VAL:HG21	1:E:307:VAL:HG11	1.71	0.72
1:F:288:VAL:HG21	1:F:307:VAL:HG11	1.71	0.72
1:H:288:VAL:HG21	1:H:307:VAL:HG11	1.71	0.72
1:I:288:VAL:HG21	1:I:307:VAL:HG11	1.71	0.72
1:M:208:VAL:HB	1:M:217:ILE:HB	1.71	0.72
1:H:324:GLN:NE2	1:I:513:LEU:H	1.87	0.72
1:J:262:LEU:HD12	1:J:299:LEU:HD21	1.71	0.72
1:M:111:ASN:ND2	1:M:162:ASP:O	2.21	0.72
1:M:181:ASP:O	1:M:184:GLU:N	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:206:LYS:N	1:B:219:SER:OG	2.23	0.72
1:D:112:VAL:O	1:D:140:ASN:ND2	2.21	0.72
1:E:111:ASN:ND2	1:E:162:ASP:O	2.21	0.72
1:G:288:VAL:HG21	1:G:307:VAL:HG11	1.71	0.72
1:I:262:LEU:HD12	1:I:299:LEU:HD21	1.71	0.72
1:D:206:LYS:N	1:D:219:SER:OG	2.23	0.72
1:M:262:LEU:HD12	1:M:299:LEU:HD21	1.71	0.72
1:N:103:VAL:HG21	1:N:105:ARG:HH21	1.54	0.72
1:D:288:VAL:HG21	1:D:307:VAL:HG11	1.72	0.71
1:E:206:LYS:N	1:E:219:SER:OG	2.23	0.71
1:L:111:ASN:ND2	1:L:162:ASP:O	2.21	0.71
1:L:206:LYS:N	1:L:219:SER:OG	2.23	0.71
1:D:111:ASN:ND2	1:D:162:ASP:O	2.21	0.71
1:I:103:VAL:HG21	1:I:105:ARG:HH21	1.54	0.71
1:J:288:VAL:HG21	1:J:307:VAL:HG11	1.72	0.71
1:K:262:LEU:HD12	1:K:299:LEU:HD21	1.71	0.71
1:L:262:LEU:HD12	1:L:299:LEU:HD21	1.71	0.71
1:C:206:LYS:N	1:C:219:SER:OG	2.23	0.71
1:E:103:VAL:HG21	1:E:105:ARG:HH21	1.54	0.71
1:L:181:ASP:O	1:L:184:GLU:N	2.22	0.71
1:N:206:LYS:N	1:N:219:SER:OG	2.23	0.71
1:D:210:ASP:O	1:D:214:ASN:CA	2.36	0.71
1:K:112:VAL:O	1:K:140:ASN:ND2	2.21	0.71
1:M:589:ARG:HB2	1:M:612:LEU:HD12	1.73	0.71
1:N:262:LEU:HD12	1:N:299:LEU:HD21	1.72	0.71
1:O:103:VAL:HG21	1:O:105:ARG:HH21	1.54	0.71
1:O:206:LYS:N	1:O:219:SER:OG	2.23	0.71
1:O:210:ASP:O	1:O:214:ASN:CA	2.36	0.71
1:F:206:LYS:N	1:F:219:SER:OG	2.23	0.71
1:L:589:ARG:HB2	1:L:612:LEU:HD12	1.73	0.71
1:C:288:VAL:HG21	1:C:307:VAL:HG11	1.71	0.71
1:C:589:ARG:HB2	1:C:612:LEU:HD12	1.73	0.71
1:D:589:ARG:HB2	1:D:612:LEU:HD12	1.73	0.71
1:I:206:LYS:N	1:I:219:SER:OG	2.23	0.71
1:K:111:ASN:ND2	1:K:162:ASP:O	2.21	0.71
1:K:589:ARG:HB2	1:K:612:LEU:HD12	1.73	0.71
1:N:255:ALA:O	1:N:259:VAL:HG23	1.91	0.71
1:N:589:ARG:HB2	1:N:612:LEU:HD12	1.73	0.71
1:B:589:ARG:HB2	1:B:612:LEU:HD12	1.73	0.71
1:G:206:LYS:N	1:G:219:SER:OG	2.23	0.71
1:K:288:VAL:HG21	1:K:307:VAL:HG11	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:112:VAL:O	1:O:140:ASN:ND2	2.21	0.71
1:O:255:ALA:O	1:O:259:VAL:HG23	1.91	0.71
1:D:255:ALA:O	1:D:259:VAL:HG23	1.91	0.71
1:E:255:ALA:O	1:E:259:VAL:HG23	1.91	0.71
1:O:589:ARG:HB2	1:O:612:LEU:HD12	1.73	0.71
1:A:589:ARG:HB2	1:A:612:LEU:HD12	1.73	0.71
1:E:589:ARG:HB2	1:E:612:LEU:HD12	1.73	0.71
1:J:111:ASN:ND2	1:J:162:ASP:O	2.21	0.71
1:M:288:VAL:HG21	1:M:307:VAL:HG11	1.71	0.71
1:N:288:VAL:HG21	1:N:307:VAL:HG11	1.71	0.71
1:A:288:VAL:HG21	1:A:307:VAL:HG11	1.71	0.71
1:F:255:ALA:O	1:F:259:VAL:HG23	1.91	0.71
1:J:589:ARG:HB2	1:J:612:LEU:HD12	1.73	0.71
1:M:255:ALA:O	1:M:259:VAL:HG23	1.91	0.71
1:O:288:VAL:HG21	1:O:307:VAL:HG11	1.71	0.71
1:M:206:LYS:N	1:M:219:SER:OG	2.23	0.70
1:C:255:ALA:O	1:C:259:VAL:HG23	1.91	0.70
1:G:103:VAL:HG21	1:G:105:ARG:HH21	1.54	0.70
1:G:112:VAL:O	1:G:140:ASN:ND2	2.21	0.70
1:G:255:ALA:O	1:G:259:VAL:HG23	1.91	0.70
1:H:206:LYS:N	1:H:219:SER:OG	2.23	0.70
1:F:589:ARG:HB2	1:F:612:LEU:HD12	1.73	0.70
1:J:210:ASP:O	1:J:214:ASN:CA	2.36	0.70
1:L:288:VAL:HG21	1:L:307:VAL:HG11	1.71	0.70
1:B:288:VAL:HG21	1:B:307:VAL:HG11	1.71	0.70
1:E:210:ASP:O	1:E:214:ASN:CA	2.36	0.70
1:H:210:ASP:O	1:H:214:ASN:CA	2.36	0.70
1:H:255:ALA:O	1:H:259:VAL:HG23	1.91	0.70
1:I:589:ARG:HB2	1:I:612:LEU:HD12	1.73	0.70
1:A:255:ALA:O	1:A:259:VAL:HG23	1.91	0.70
1:B:255:ALA:O	1:B:259:VAL:HG23	1.91	0.70
1:G:589:ARG:HB2	1:G:612:LEU:HD12	1.73	0.70
1:I:255:ALA:O	1:I:259:VAL:HG23	1.91	0.70
1:A:206:LYS:N	1:A:219:SER:OG	2.23	0.70
1:G:210:ASP:O	1:G:214:ASN:CA	2.36	0.70
1:H:170:GLN:HB3	1:H:225:ARG:NH1	2.07	0.70
1:J:174:LEU:O	1:J:214:ASN:ND2	2.25	0.70
1:J:255:ALA:O	1:J:259:VAL:HG23	1.91	0.70
1:L:255:ALA:O	1:L:259:VAL:HG23	1.91	0.70
1:N:174:LEU:O	1:N:214:ASN:ND2	2.25	0.70
1:C:210:ASP:O	1:C:214:ASN:CA	2.36	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:170:GLN:HB3	1:E:225:ARG:NH1	2.07	0.70
1:F:170:GLN:HB3	1:F:225:ARG:NH1	2.07	0.70
1:H:589:ARG:HB2	1:H:612:LEU:HD12	1.73	0.70
1:K:174:LEU:O	1:K:214:ASN:ND2	2.25	0.70
1:O:174:LEU:O	1:O:214:ASN:ND2	2.25	0.70
1:D:170:GLN:HB3	1:D:225:ARG:NH1	2.07	0.70
1:H:242:GLU:HG3	1:H:243:GLY:H	1.57	0.70
1:N:111:ASN:ND2	1:N:162:ASP:O	2.21	0.70
1:G:170:GLN:HB3	1:G:225:ARG:NH1	2.07	0.69
1:O:170:GLN:HB3	1:O:225:ARG:NH1	2.07	0.69
1:G:242:GLU:HG3	1:G:243:GLY:H	1.57	0.69
1:I:170:GLN:HB3	1:I:225:ARG:NH1	2.07	0.69
1:J:242:GLU:HG3	1:J:243:GLY:H	1.57	0.69
1:L:174:LEU:O	1:L:214:ASN:ND2	2.25	0.69
1:A:170:GLN:HB3	1:A:225:ARG:NH1	2.07	0.69
1:E:242:GLU:HG3	1:E:243:GLY:H	1.57	0.69
1:K:255:ALA:O	1:K:259:VAL:HG23	1.91	0.69
1:M:174:LEU:O	1:M:214:ASN:ND2	2.25	0.69
1:N:170:GLN:HB3	1:N:225:ARG:NH1	2.07	0.69
1:B:222:GLU:HG2	1:B:225:ARG:HD2	1.75	0.69
1:C:112:VAL:O	1:C:140:ASN:ND2	2.21	0.69
1:D:174:LEU:O	1:D:214:ASN:ND2	2.25	0.69
1:J:222:GLU:HG2	1:J:225:ARG:HD2	1.75	0.69
1:K:222:GLU:HG2	1:K:225:ARG:HD2	1.75	0.69
1:M:170:GLN:HB3	1:M:225:ARG:NH1	2.07	0.69
1:A:222:GLU:HG2	1:A:225:ARG:HD2	1.75	0.69
1:E:174:LEU:O	1:E:214:ASN:ND2	2.25	0.69
1:F:174:LEU:O	1:F:214:ASN:ND2	2.25	0.69
1:I:174:LEU:O	1:I:214:ASN:ND2	2.25	0.69
1:N:210:ASP:O	1:N:214:ASN:CA	2.36	0.69
1:A:174:LEU:O	1:A:214:ASN:ND2	2.25	0.69
1:C:174:LEU:O	1:C:214:ASN:ND2	2.25	0.69
1:G:186:LEU:HD22	1:G:231:LEU:HD23	1.75	0.69
1:G:174:LEU:O	1:G:214:ASN:ND2	2.25	0.69
1:L:170:GLN:HB3	1:L:225:ARG:NH1	2.07	0.69
1:B:174:LEU:O	1:B:214:ASN:ND2	2.25	0.69
1:D:222:GLU:HG2	1:D:225:ARG:HD2	1.75	0.69
1:C:295:GLN:HG2	1:D:257:ASN:ND2	2.08	0.69
1:E:222:GLU:HG2	1:E:225:ARG:HD2	1.75	0.69
1:G:222:GLU:HG2	1:G:225:ARG:HD2	1.75	0.69
1:I:186:LEU:HD22	1:I:231:LEU:HD23	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:222:GLU:HG2	1:I:225:ARG:HD2	1.75	0.69
1:L:222:GLU:HG2	1:L:225:ARG:HD2	1.75	0.69
1:N:112:VAL:O	1:N:140:ASN:ND2	2.21	0.69
1:D:295:GLN:HG2	1:E:257:ASN:ND2	2.08	0.69
1:H:222:GLU:HG2	1:H:225:ARG:HD2	1.75	0.69
1:K:295:GLN:HG2	1:L:257:ASN:ND2	2.08	0.69
1:O:111:ASN:ND2	1:O:162:ASP:O	2.21	0.69
1:O:222:GLU:HG2	1:O:225:ARG:HD2	1.75	0.69
1:C:222:GLU:HG2	1:C:225:ARG:HD2	1.75	0.69
1:E:186:LEU:HD22	1:E:231:LEU:HD23	1.75	0.69
1:H:174:LEU:O	1:H:214:ASN:ND2	2.25	0.69
1:J:295:GLN:HG2	1:K:257:ASN:ND2	2.08	0.69
1:B:170:GLN:HB3	1:B:225:ARG:NH1	2.07	0.69
1:B:295:GLN:HG2	1:C:257:ASN:ND2	2.08	0.69
1:C:170:GLN:HB3	1:C:225:ARG:NH1	2.07	0.69
1:F:210:ASP:O	1:F:214:ASN:CA	2.36	0.69
1:J:112:VAL:O	1:J:140:ASN:ND2	2.21	0.69
1:L:295:GLN:HG2	1:M:257:ASN:ND2	2.08	0.69
1:N:222:GLU:HG2	1:N:225:ARG:HD2	1.75	0.69
1:A:242:GLU:HG3	1:A:243:GLY:H	1.57	0.69
1:F:222:GLU:HG2	1:F:225:ARG:HD2	1.75	0.69
1:E:295:GLN:HG2	1:F:257:ASN:ND2	2.08	0.69
1:K:170:GLN:HB3	1:K:225:ARG:NH1	2.07	0.69
1:M:222:GLU:HG2	1:M:225:ARG:HD2	1.75	0.68
1:C:186:LEU:HD22	1:C:231:LEU:HD23	1.75	0.68
1:F:186:LEU:HD22	1:F:231:LEU:HD23	1.75	0.68
1:I:111:ASN:ND2	1:I:162:ASP:O	2.21	0.68
1:J:170:GLN:HB3	1:J:225:ARG:NH1	2.07	0.68
1:O:242:GLU:HG3	1:O:243:GLY:H	1.57	0.68
1:A:295:GLN:HG2	1:B:257:ASN:ND2	2.08	0.68
1:D:186:LEU:HD22	1:D:231:LEU:HD23	1.75	0.68
1:F:242:GLU:HG3	1:F:243:GLY:H	1.57	0.68
1:H:186:LEU:HD22	1:H:231:LEU:HD23	1.75	0.68
1:I:210:ASP:O	1:I:214:ASN:CA	2.36	0.68
1:I:295:GLN:HG2	1:J:257:ASN:ND2	2.08	0.68
1:K:186:LEU:HD22	1:K:231:LEU:HD23	1.75	0.68
1:M:242:GLU:HG3	1:M:243:GLY:H	1.57	0.68
1:M:295:GLN:HG2	1:N:257:ASN:ND2	2.08	0.68
1:C:242:GLU:HG3	1:C:243:GLY:H	1.57	0.68
1:F:295:GLN:HG2	1:G:257:ASN:ND2	2.08	0.68
1:K:242:GLU:HG3	1:K:243:GLY:H	1.57	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:186:LEU:HD22	1:A:231:LEU:HD23	1.75	0.68
1:J:186:LEU:HD22	1:J:231:LEU:HD23	1.75	0.68
1:L:242:GLU:HG3	1:L:243:GLY:H	1.57	0.68
1:A:257:ASN:ND2	1:O:295:GLN:HG2	2.08	0.68
1:L:186:LEU:HD22	1:L:231:LEU:HD23	1.75	0.68
1:B:242:GLU:HG3	1:B:243:GLY:H	1.57	0.67
1:C:119:PRO:O	1:C:123:GLN:CB	2.42	0.67
1:F:112:VAL:O	1:F:140:ASN:ND2	2.21	0.67
1:H:119:PRO:O	1:H:123:GLN:CB	2.42	0.67
1:H:295:GLN:HG2	1:I:257:ASN:ND2	2.08	0.67
1:N:295:GLN:HG2	1:O:257:ASN:ND2	2.08	0.67
1:B:210:ASP:O	1:B:214:ASN:CA	2.36	0.67
1:F:135:HIS:CD2	1:F:136:TYR:H	2.13	0.67
1:I:112:VAL:O	1:I:140:ASN:ND2	2.21	0.67
1:G:135:HIS:CD2	1:G:136:TYR:H	2.13	0.67
1:N:186:LEU:HD22	1:N:231:LEU:HD23	1.75	0.67
1:E:119:PRO:O	1:E:123:GLN:CB	2.42	0.67
1:E:135:HIS:CD2	1:E:136:TYR:H	2.13	0.67
1:H:135:HIS:CD2	1:H:136:TYR:H	2.13	0.67
1:I:135:HIS:CD2	1:I:136:TYR:H	2.13	0.67
1:L:210:ASP:O	1:L:214:ASN:CA	2.36	0.67
1:N:242:GLU:HG3	1:N:243:GLY:H	1.57	0.67
1:A:241:GLU:O	1:A:242:GLU:HB3	1.95	0.67
1:B:186:LEU:HD22	1:B:231:LEU:HD23	1.75	0.67
1:B:324:GLN:HE21	1:C:513:LEU:H	1.43	0.67
1:D:135:HIS:CD2	1:D:136:TYR:H	2.13	0.67
1:M:606:SER:HB3	1:O:532:GLU:HB2	1.77	0.67
1:D:242:GLU:HG3	1:D:243:GLY:H	1.57	0.67
1:G:295:GLN:HG2	1:H:257:ASN:ND2	2.08	0.67
1:A:532:GLU:HB2	1:N:606:SER:HB3	1.77	0.67
1:F:119:PRO:O	1:F:123:GLN:CB	2.42	0.67
1:I:242:GLU:HG3	1:I:243:GLY:H	1.57	0.67
1:J:135:HIS:CD2	1:J:136:TYR:H	2.13	0.67
1:L:606:SER:HB3	1:N:532:GLU:HB2	1.77	0.67
1:N:135:HIS:CD2	1:N:136:TYR:H	2.13	0.67
1:O:135:HIS:CD2	1:O:136:TYR:H	2.13	0.67
1:B:241:GLU:O	1:B:242:GLU:HB3	1.95	0.67
1:M:186:LEU:HD22	1:M:231:LEU:HD23	1.75	0.67
1:M:210:ASP:O	1:M:214:ASN:CA	2.36	0.67
1:O:241:GLU:O	1:O:242:GLU:HB3	1.95	0.67
1:A:513:LEU:H	1:O:324:GLN:HE21	1.43	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:186:LEU:HD22	1:O:231:LEU:HD23	1.75	0.67
1:K:241:GLU:O	1:K:242:GLU:HB3	1.95	0.66
1:M:135:HIS:CD2	1:M:136:TYR:H	2.13	0.66
1:K:606:SER:HB3	1:M:532:GLU:HB2	1.77	0.66
1:A:135:HIS:CD2	1:A:136:TYR:H	2.13	0.66
1:C:135:HIS:CD2	1:C:136:TYR:H	2.13	0.66
1:D:324:GLN:HE21	1:E:513:LEU:H	1.43	0.66
1:B:532:GLU:HB2	1:O:606:SER:HB3	1.77	0.66
1:K:119:PRO:O	1:K:123:GLN:CB	2.42	0.66
1:K:135:HIS:CD2	1:K:136:TYR:H	2.13	0.66
1:J:606:SER:HB3	1:L:532:GLU:HB2	1.77	0.66
1:I:119:PRO:O	1:I:123:GLN:CB	2.42	0.66
1:L:241:GLU:O	1:L:242:GLU:HB3	1.95	0.66
1:D:119:PRO:O	1:D:123:GLN:CB	2.42	0.66
1:D:606:SER:HB3	1:F:532:GLU:HB2	1.77	0.66
1:J:241:GLU:O	1:J:242:GLU:HB3	1.95	0.66
1:I:606:SER:HB3	1:K:532:GLU:HB2	1.77	0.66
1:N:241:GLU:O	1:N:242:GLU:HB3	1.95	0.66
1:L:135:HIS:CD2	1:L:136:TYR:H	2.13	0.66
1:M:112:VAL:O	1:M:140:ASN:ND2	2.21	0.66
1:E:324:GLN:HE21	1:F:513:LEU:H	1.43	0.66
1:C:606:SER:HB3	1:E:532:GLU:HB2	1.77	0.66
1:A:606:SER:HB3	1:C:532:GLU:HB2	1.77	0.66
1:B:135:HIS:CD2	1:B:136:TYR:H	2.13	0.66
1:E:606:SER:HB3	1:G:532:GLU:HB2	1.77	0.66
1:H:606:SER:HB3	1:J:532:GLU:HB2	1.77	0.66
1:B:119:PRO:O	1:B:123:GLN:CB	2.42	0.66
1:C:241:GLU:O	1:C:242:GLU:HB3	1.95	0.66
1:F:241:GLU:O	1:F:242:GLU:HB3	1.95	0.66
1:G:241:GLU:O	1:G:242:GLU:HB3	1.95	0.66
1:E:241:GLU:O	1:E:242:GLU:HB3	1.95	0.65
1:H:241:GLU:O	1:H:242:GLU:HB3	1.95	0.65
1:L:114:ALA:N	1:L:140:ASN:OD1	2.28	0.65
1:O:119:PRO:O	1:O:123:GLN:CB	2.42	0.65
1:N:324:GLN:HE21	1:O:513:LEU:H	1.43	0.65
1:D:212:ARG:NH2	1:E:177:ALA:HB1	2.10	0.65
1:E:242:GLU:HG2	1:E:243:GLY:H	1.60	0.65
1:C:324:GLN:HE21	1:D:513:LEU:H	1.43	0.65
1:L:324:GLN:HE21	1:M:513:LEU:H	1.43	0.65
1:M:241:GLU:O	1:M:242:GLU:HB3	1.95	0.65
1:B:606:SER:HB3	1:D:532:GLU:HB2	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:212:ARG:NH2	1:D:177:ALA:HB1	2.10	0.65
1:E:212:ARG:NH2	1:F:177:ALA:HB1	2.10	0.65
1:G:324:GLN:HE21	1:H:513:LEU:H	1.43	0.65
1:C:242:GLU:HG2	1:C:243:GLY:H	1.60	0.65
1:G:606:SER:HB3	1:I:532:GLU:HB2	1.77	0.65
1:M:324:GLN:HE21	1:N:513:LEU:H	1.43	0.65
1:O:179:ALA:HB1	1:O:209:ALA:HB1	1.79	0.65
1:F:606:SER:HB3	1:H:532:GLU:HB2	1.77	0.65
1:I:324:GLN:HE21	1:J:513:LEU:H	1.43	0.65
1:K:114:ALA:N	1:K:140:ASN:OD1	2.28	0.65
1:L:179:ALA:HB1	1:L:209:ALA:HB1	1.79	0.65
1:M:179:ALA:HB1	1:M:209:ALA:HB1	1.79	0.65
1:G:119:PRO:O	1:G:123:GLN:CB	2.42	0.65
1:I:241:GLU:O	1:I:242:GLU:HB3	1.95	0.65
1:N:179:ALA:HB1	1:N:209:ALA:HB1	1.79	0.65
1:A:324:GLN:HE21	1:B:513:LEU:H	1.43	0.65
1:J:114:ALA:N	1:J:140:ASN:OD1	2.28	0.65
1:J:179:ALA:HB1	1:J:209:ALA:HB1	1.79	0.65
1:B:212:ARG:NH2	1:C:177:ALA:HB1	2.10	0.64
1:D:241:GLU:O	1:D:242:GLU:HB3	1.95	0.64
1:E:181:ASP:O	1:E:184:GLU:HG2	1.98	0.64
1:F:181:ASP:O	1:F:184:GLU:HG2	1.98	0.64
1:F:324:GLN:HE21	1:G:513:LEU:H	1.43	0.64
1:F:212:ARG:NH2	1:G:177:ALA:HB1	2.10	0.64
1:K:181:ASP:O	1:K:184:GLU:HG2	1.98	0.64
1:K:179:ALA:HB1	1:K:209:ALA:HB1	1.79	0.64
1:A:179:ALA:HB1	1:A:209:ALA:HB1	1.79	0.64
1:C:114:ALA:N	1:C:140:ASN:OD1	2.28	0.64
1:E:114:ALA:N	1:E:140:ASN:OD1	2.28	0.64
1:F:114:ALA:N	1:F:140:ASN:OD1	2.28	0.64
1:I:114:ALA:N	1:I:140:ASN:OD1	2.28	0.64
1:B:179:ALA:HB1	1:B:209:ALA:HB1	1.79	0.64
1:D:114:ALA:N	1:D:140:ASN:OD1	2.28	0.64
1:G:114:ALA:N	1:G:140:ASN:OD1	2.28	0.64
1:G:181:ASP:O	1:G:184:GLU:HG2	1.98	0.64
1:H:114:ALA:N	1:H:140:ASN:OD1	2.28	0.64
1:J:181:ASP:O	1:J:184:GLU:HG2	1.98	0.64
1:K:324:GLN:HE21	1:L:513:LEU:H	1.43	0.64
1:A:206:LYS:HZ1	1:B:190:ILE:HB	1.62	0.64
1:B:114:ALA:N	1:B:140:ASN:OD1	2.28	0.64
1:D:181:ASP:O	1:D:184:GLU:HG2	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:181:ASP:O	1:M:184:GLU:HG2	1.98	0.64
1:N:181:ASP:O	1:N:184:GLU:HG2	1.97	0.64
1:A:210:ASP:O	1:A:214:ASN:CA	2.36	0.64
1:C:179:ALA:HB1	1:C:209:ALA:HB1	1.79	0.64
1:K:213:THR:HG22	1:L:239:GLU:HB3	1.79	0.64
1:K:259:VAL:CG2	1:K:292:ALA:HB2	2.28	0.64
1:L:181:ASP:O	1:L:184:GLU:HG2	1.98	0.64
1:A:114:ALA:N	1:A:140:ASN:OD1	2.28	0.64
1:A:181:ASP:O	1:A:184:GLU:HG2	1.98	0.64
1:J:213:THR:HG22	1:K:239:GLU:HB3	1.79	0.64
1:J:324:GLN:HE21	1:K:513:LEU:H	1.43	0.64
1:N:259:VAL:CG2	1:N:292:ALA:HB2	2.28	0.64
1:B:213:THR:HG22	1:C:239:GLU:HB3	1.79	0.64
1:E:213:THR:HG22	1:F:239:GLU:HB3	1.79	0.64
1:I:179:ALA:HB1	1:I:209:ALA:HB1	1.79	0.64
1:M:242:GLU:HG2	1:M:243:GLY:H	1.60	0.64
1:C:170:GLN:HB3	1:C:225:ARG:HH12	1.63	0.64
1:C:181:ASP:O	1:C:184:GLU:HG2	1.98	0.64
1:D:170:GLN:HB3	1:D:225:ARG:HH12	1.63	0.64
1:I:181:ASP:O	1:I:184:GLU:HG2	1.98	0.64
1:J:259:VAL:CG2	1:J:292:ALA:HB2	2.28	0.64
1:L:213:THR:HG22	1:M:239:GLU:HB3	1.79	0.64
1:O:181:ASP:O	1:O:184:GLU:HG2	1.98	0.64
1:A:213:THR:HG22	1:B:239:GLU:HB3	1.79	0.64
1:B:206:LYS:HZ1	1:C:190:ILE:HB	1.62	0.64
1:G:479:ALA:HA	1:G:515:LYS:HA	1.80	0.64
1:H:181:ASP:O	1:H:184:GLU:HG2	1.98	0.64
1:H:259:VAL:CG2	1:H:292:ALA:HB2	2.28	0.64
1:I:259:VAL:CG2	1:I:292:ALA:HB2	2.28	0.64
1:I:213:THR:HG22	1:J:239:GLU:HB3	1.79	0.64
1:J:479:ALA:HA	1:J:515:LYS:HA	1.80	0.64
1:K:479:ALA:HA	1:K:515:LYS:HA	1.80	0.64
1:L:259:VAL:CG2	1:L:292:ALA:HB2	2.28	0.64
1:O:114:ALA:N	1:O:140:ASN:OD1	2.28	0.64
1:A:190:ILE:HB	1:O:206:LYS:HZ1	1.62	0.64
1:D:213:THR:HG22	1:E:239:GLU:HB3	1.79	0.64
1:F:479:ALA:HA	1:F:515:LYS:HA	1.80	0.64
1:K:426:VAL:O	1:L:510:ASN:ND2	2.27	0.64
1:A:212:ARG:NH2	1:B:177:ALA:HB1	2.10	0.63
1:C:206:LYS:HZ1	1:D:190:ILE:HB	1.62	0.63
1:G:259:VAL:CG2	1:G:292:ALA:HB2	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:206:LYS:HZ1	1:J:190:ILE:HB	1.63	0.63
1:M:479:ALA:HA	1:M:515:LYS:HA	1.80	0.63
1:N:119:PRO:O	1:N:123:GLN:CB	2.42	0.63
1:B:181:ASP:O	1:B:184:GLU:HG2	1.98	0.63
1:G:212:ARG:NH2	1:H:177:ALA:HB1	2.10	0.63
1:H:479:ALA:HA	1:H:515:LYS:HA	1.80	0.63
1:I:479:ALA:HA	1:I:515:LYS:HA	1.80	0.63
1:M:259:VAL:CG2	1:M:292:ALA:HB2	2.28	0.63
1:B:259:VAL:CG2	1:B:292:ALA:HB2	2.28	0.63
1:H:206:LYS:HZ1	1:I:190:ILE:HB	1.62	0.63
1:L:354:GLN:HE21	1:L:356:PHE:HE2	1.47	0.63
1:M:213:THR:HG22	1:N:239:GLU:HB3	1.79	0.63
1:B:170:GLN:HB3	1:B:225:ARG:HH12	1.63	0.63
1:G:179:ALA:HB1	1:G:209:ALA:HB1	1.79	0.63
1:H:179:ALA:HB1	1:H:209:ALA:HB1	1.79	0.63
1:L:426:VAL:O	1:M:510:ASN:ND2	2.27	0.63
1:N:170:GLN:HB3	1:N:225:ARG:HH12	1.63	0.63
1:N:479:ALA:HA	1:N:515:LYS:HA	1.80	0.63
1:O:259:VAL:CG2	1:O:292:ALA:HB2	2.28	0.63
1:D:179:ALA:HB1	1:D:209:ALA:HB1	1.79	0.63
1:C:213:THR:HG22	1:D:239:GLU:HB3	1.79	0.63
1:D:479:ALA:HA	1:D:515:LYS:HA	1.80	0.63
1:E:259:VAL:CG2	1:E:292:ALA:HB2	2.28	0.63
1:E:479:ALA:HA	1:E:515:LYS:HA	1.81	0.63
1:F:213:THR:HG22	1:G:239:GLU:HB3	1.79	0.63
1:G:206:LYS:HZ1	1:H:190:ILE:HB	1.63	0.63
1:H:213:THR:HG22	1:I:239:GLU:HB3	1.79	0.63
1:J:242:GLU:HG2	1:J:243:GLY:H	1.60	0.63
1:L:206:LYS:HZ1	1:M:190:ILE:HB	1.62	0.63
1:N:354:GLN:HE21	1:N:356:PHE:HE2	1.47	0.63
1:D:354:GLN:HE21	1:D:356:PHE:HE2	1.47	0.63
1:I:354:GLN:HE21	1:I:356:PHE:HE2	1.47	0.63
1:K:206:LYS:HZ1	1:L:190:ILE:HB	1.63	0.63
1:L:119:PRO:O	1:L:123:GLN:CB	2.42	0.63
1:L:479:ALA:HA	1:L:515:LYS:HA	1.80	0.63
1:N:114:ALA:N	1:N:140:ASN:OD1	2.28	0.63
1:O:170:GLN:HB3	1:O:225:ARG:HH12	1.63	0.63
1:A:177:ALA:HB1	1:O:212:ARG:NH2	2.10	0.63
1:A:259:VAL:CG2	1:A:292:ALA:HB2	2.28	0.63
1:A:354:GLN:HE21	1:A:356:PHE:HE2	1.47	0.63
1:C:479:ALA:HA	1:C:515:LYS:HA	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:179:ALA:HB1	1:E:209:ALA:HB1	1.79	0.63
1:F:179:ALA:HB1	1:F:209:ALA:HB1	1.79	0.63
1:F:354:GLN:HE21	1:F:356:PHE:HE2	1.47	0.63
1:M:170:GLN:HB3	1:M:225:ARG:HH12	1.63	0.63
1:A:479:ALA:HA	1:A:515:LYS:HA	1.80	0.63
1:G:117:LEU:HD22	1:G:120:LEU:HD13	1.81	0.63
1:I:117:LEU:HD22	1:I:120:LEU:HD13	1.81	0.63
1:M:119:PRO:O	1:M:123:GLN:CB	2.42	0.63
1:C:354:GLN:HE21	1:C:356:PHE:HE2	1.47	0.63
1:L:170:GLN:HB3	1:L:225:ARG:HH12	1.63	0.63
1:M:426:VAL:O	1:N:510:ASN:ND2	2.27	0.63
1:N:213:THR:HG22	1:O:239:GLU:HB3	1.79	0.63
1:N:212:ARG:NH2	1:O:177:ALA:HB1	2.10	0.63
1:D:259:VAL:CG2	1:D:292:ALA:HB2	2.28	0.62
1:E:206:LYS:HZ1	1:F:190:ILE:HB	1.63	0.62
1:H:324:GLN:HE21	1:I:513:LEU:H	1.43	0.62
1:I:170:GLN:HB3	1:I:225:ARG:HH12	1.63	0.62
1:D:206:LYS:HZ1	1:E:190:ILE:HB	1.62	0.62
1:E:117:LEU:HD22	1:E:120:LEU:HD13	1.81	0.62
1:G:213:THR:HG22	1:H:239:GLU:HB3	1.79	0.62
1:H:170:GLN:HB3	1:H:225:ARG:HH12	1.63	0.62
1:J:206:LYS:HZ1	1:K:190:ILE:HB	1.62	0.62
1:O:479:ALA:HA	1:O:515:LYS:HA	1.80	0.62
1:A:170:GLN:HB3	1:A:225:ARG:HH12	1.63	0.62
1:A:239:GLU:HB3	1:O:213:THR:HG22	1.79	0.62
1:B:479:ALA:HA	1:B:515:LYS:HA	1.80	0.62
1:H:242:GLU:HG2	1:H:243:GLY:H	1.60	0.62
1:J:119:PRO:O	1:J:123:GLN:CB	2.42	0.62
1:N:426:VAL:O	1:O:510:ASN:ND2	2.27	0.62
1:G:354:GLN:HE21	1:G:356:PHE:HE2	1.47	0.62
1:J:354:GLN:HE21	1:J:356:PHE:HE2	1.47	0.62
1:K:170:GLN:HB3	1:K:225:ARG:HH12	1.63	0.62
1:M:212:ARG:NH2	1:N:177:ALA:HB1	2.10	0.62
1:C:259:VAL:CG2	1:C:292:ALA:HB2	2.28	0.62
1:K:117:LEU:HD22	1:K:120:LEU:HD13	1.81	0.62
1:K:168:LYS:N	1:K:220:GLY:O	2.30	0.62
1:L:153:LYS:O	1:L:157:VAL:HG23	2.00	0.62
1:M:153:LYS:O	1:M:157:VAL:HG23	2.00	0.62
1:B:354:GLN:HE21	1:B:356:PHE:HE2	1.47	0.62
1:G:266:SER:HB3	1:G:290:ILE:CD1	2.30	0.62
1:K:153:LYS:O	1:K:157:VAL:HG23	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:121:LEU:HD22	1:L:154:LEU:HD23	1.82	0.62
1:H:212:ARG:NH2	1:I:177:ALA:HB1	2.10	0.62
1:J:170:GLN:HB3	1:J:225:ARG:HH12	1.63	0.62
1:K:121:LEU:HD22	1:K:154:LEU:HD23	1.82	0.62
1:L:266:SER:HB3	1:L:290:ILE:CD1	2.30	0.62
1:M:121:LEU:HD22	1:M:154:LEU:HD23	1.82	0.62
1:M:114:ALA:N	1:M:140:ASN:OD1	2.28	0.62
1:J:121:LEU:HD22	1:J:154:LEU:HD23	1.82	0.62
1:J:266:SER:HB3	1:J:290:ILE:CD1	2.30	0.62
1:A:317:ARG:O	1:O:249:TYR:OH	2.17	0.62
1:F:266:SER:HB3	1:F:290:ILE:CD1	2.30	0.62
1:F:259:VAL:CG2	1:F:292:ALA:HB2	2.28	0.62
1:H:266:SER:HB3	1:H:290:ILE:CD1	2.30	0.62
1:J:153:LYS:O	1:J:157:VAL:HG23	2.00	0.62
1:K:354:GLN:HE21	1:K:356:PHE:HE2	1.47	0.62
1:L:212:ARG:NH2	1:M:177:ALA:HB1	2.10	0.62
1:M:266:SER:HB3	1:M:290:ILE:CD1	2.30	0.62
1:N:121:LEU:HD22	1:N:154:LEU:HD23	1.82	0.62
1:N:249:TYR:OH	1:O:317:ARG:O	2.17	0.62
1:O:354:GLN:HE21	1:O:356:PHE:HE2	1.47	0.62
1:C:117:LEU:HD22	1:C:120:LEU:HD13	1.81	0.62
1:D:153:LYS:O	1:D:157:VAL:HG23	2.00	0.62
1:E:153:LYS:O	1:E:157:VAL:HG23	2.00	0.62
1:F:153:LYS:O	1:F:157:VAL:HG23	2.00	0.62
1:G:170:GLN:HB3	1:G:225:ARG:HH12	1.63	0.62
1:H:121:LEU:HD22	1:H:154:LEU:HD23	1.82	0.62
1:M:206:LYS:HZ1	1:N:190:ILE:HB	1.63	0.62
1:N:153:LYS:O	1:N:157:VAL:HG23	2.00	0.62
1:A:119:PRO:O	1:A:123:GLN:CB	2.42	0.61
1:B:153:LYS:O	1:B:157:VAL:HG23	2.00	0.61
1:C:153:LYS:O	1:C:157:VAL:HG23	2.00	0.61
1:I:121:LEU:HD22	1:I:154:LEU:HD23	1.82	0.61
1:K:266:SER:HB3	1:K:290:ILE:CD1	2.30	0.61
1:N:266:SER:HB3	1:N:290:ILE:CD1	2.30	0.61
1:B:176:TYR:CD1	1:B:238:GLU:OE1	2.54	0.61
1:F:170:GLN:HB3	1:F:225:ARG:HH12	1.63	0.61
1:G:121:LEU:HD22	1:G:154:LEU:HD23	1.82	0.61
1:H:153:LYS:O	1:H:157:VAL:HG23	2.00	0.61
1:K:212:ARG:NH2	1:L:177:ALA:HB1	2.10	0.61
1:M:176:TYR:CD1	1:M:238:GLU:OE1	2.53	0.61
1:F:246:ARG:NH1	1:F:308:GLN:HG3	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:153:LYS:O	1:G:157:VAL:HG23	2.00	0.61
1:H:246:ARG:NH1	1:H:308:GLN:HG3	2.16	0.61
1:A:153:LYS:O	1:A:157:VAL:HG23	2.00	0.61
1:A:176:TYR:CD1	1:A:238:GLU:OE1	2.54	0.61
1:D:246:ARG:NH1	1:D:308:GLN:HG3	2.16	0.61
1:E:266:SER:HB3	1:E:290:ILE:CD1	2.30	0.61
1:G:246:ARG:NH1	1:G:308:GLN:HG3	2.16	0.61
1:I:266:SER:HB3	1:I:290:ILE:CD1	2.30	0.61
1:I:212:ARG:NH2	1:J:177:ALA:HB1	2.10	0.61
1:I:249:TYR:OH	1:J:317:ARG:O	2.17	0.61
1:J:212:ARG:NH2	1:K:177:ALA:HB1	2.10	0.61
1:M:354:GLN:HE21	1:M:356:PHE:HE2	1.47	0.61
1:E:168:LYS:N	1:E:220:GLY:O	2.31	0.61
1:E:246:ARG:NH1	1:E:308:GLN:HG3	2.16	0.61
1:I:153:LYS:O	1:I:157:VAL:HG23	2.00	0.61
1:K:242:GLU:HG2	1:K:243:GLY:H	1.60	0.61
1:N:206:LYS:HZ1	1:O:190:ILE:HB	1.64	0.61
1:D:168:LYS:N	1:D:220:GLY:O	2.31	0.61
1:F:117:LEU:HD22	1:F:120:LEU:HD13	1.81	0.61
1:F:121:LEU:HD22	1:F:154:LEU:HD23	1.82	0.61
1:F:168:LYS:N	1:F:220:GLY:O	2.30	0.61
1:H:176:TYR:CD1	1:H:238:GLU:OE1	2.54	0.61
1:J:168:LYS:N	1:J:220:GLY:O	2.31	0.61
1:M:117:LEU:HD22	1:M:120:LEU:HD13	1.81	0.61
1:O:117:LEU:HD22	1:O:120:LEU:HD13	1.81	0.61
1:O:121:LEU:HD22	1:O:154:LEU:HD23	1.82	0.61
1:D:266:SER:HB3	1:D:290:ILE:CD1	2.30	0.61
1:D:426:VAL:O	1:E:510:ASN:ND2	2.27	0.61
1:E:170:GLN:HB3	1:E:225:ARG:HH12	1.63	0.61
1:F:479:ALA:O	1:F:480:VAL:HG13	2.01	0.61
1:G:176:TYR:CD1	1:G:238:GLU:OE1	2.54	0.61
1:I:246:ARG:NH1	1:I:308:GLN:HG3	2.16	0.61
1:J:246:ARG:NH1	1:J:308:GLN:HG3	2.16	0.61
1:L:479:ALA:O	1:L:480:VAL:HG13	2.01	0.61
1:M:249:TYR:OH	1:N:317:ARG:O	2.17	0.61
1:A:121:LEU:HD22	1:A:154:LEU:HD23	1.82	0.61
1:C:176:TYR:CD1	1:C:238:GLU:OE1	2.54	0.61
1:H:117:LEU:HD22	1:H:120:LEU:HD13	1.81	0.61
1:L:176:TYR:CD1	1:L:238:GLU:OE1	2.54	0.61
1:N:117:LEU:HD22	1:N:120:LEU:HD13	1.81	0.61
1:N:176:TYR:CD1	1:N:238:GLU:OE1	2.54	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:117:LEU:HD22	1:A:120:LEU:HD13	1.81	0.61
1:A:266:SER:HB3	1:A:290:ILE:CD1	2.30	0.61
1:B:266:SER:HB3	1:B:290:ILE:CD1	2.30	0.61
1:D:120:LEU:HD22	1:D:157:VAL:HG11	1.83	0.61
1:D:479:ALA:O	1:D:480:VAL:HG13	2.01	0.61
1:E:354:GLN:HE21	1:E:356:PHE:HE2	1.47	0.61
1:H:354:GLN:HE21	1:H:356:PHE:HE2	1.47	0.61
1:H:479:ALA:O	1:H:480:VAL:HG13	2.01	0.61
1:J:479:ALA:O	1:J:480:VAL:HG13	2.01	0.61
1:N:479:ALA:O	1:N:480:VAL:HG13	2.01	0.61
1:B:246:ARG:NH1	1:B:308:GLN:HG3	2.16	0.61
1:C:168:LYS:N	1:C:220:GLY:O	2.31	0.61
1:C:266:SER:HB3	1:C:290:ILE:CD1	2.30	0.61
1:B:249:TYR:OH	1:C:317:ARG:O	2.17	0.61
1:G:168:LYS:N	1:G:220:GLY:O	2.31	0.61
1:O:266:SER:HB3	1:O:290:ILE:CD1	2.30	0.61
1:C:246:ARG:NH1	1:C:308:GLN:HG3	2.16	0.60
1:D:117:LEU:HD22	1:D:120:LEU:HD13	1.81	0.60
1:E:176:TYR:CD1	1:E:238:GLU:OE1	2.54	0.60
1:G:120:LEU:HD22	1:G:157:VAL:HG11	1.83	0.60
1:K:176:TYR:CD1	1:K:238:GLU:OE1	2.54	0.60
1:O:120:LEU:HD22	1:O:157:VAL:HG11	1.83	0.60
1:O:153:LYS:O	1:O:157:VAL:HG23	2.00	0.60
1:O:176:TYR:CD1	1:O:238:GLU:OE1	2.54	0.60
1:B:121:LEU:HD22	1:B:154:LEU:HD23	1.82	0.60
1:B:479:ALA:O	1:B:480:VAL:HG13	2.01	0.60
1:C:120:LEU:HD22	1:C:157:VAL:HG11	1.83	0.60
1:C:479:ALA:O	1:C:480:VAL:HG13	2.01	0.60
1:E:121:LEU:HD22	1:E:154:LEU:HD23	1.82	0.60
1:H:120:LEU:HD22	1:H:157:VAL:HG11	1.83	0.60
1:K:246:ARG:NH1	1:K:308:GLN:HG3	2.16	0.60
1:A:426:VAL:O	1:B:510:ASN:ND2	2.27	0.60
1:D:121:LEU:HD22	1:D:154:LEU:HD23	1.82	0.60
1:E:295:GLN:CG	1:F:257:ASN:ND2	2.65	0.60
1:E:249:TYR:OH	1:F:317:ARG:O	2.17	0.60
1:J:117:LEU:HD22	1:J:120:LEU:HD13	1.81	0.60
1:J:223:LYS:HA	1:J:226:GLN:HG2	1.83	0.60
1:I:295:GLN:CG	1:J:257:ASN:ND2	2.65	0.60
1:A:120:LEU:HD22	1:A:157:VAL:HG11	1.83	0.60
1:A:295:GLN:CG	1:B:257:ASN:ND2	2.65	0.60
1:A:479:ALA:O	1:A:480:VAL:HG13	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:295:GLN:CG	1:E:257:ASN:ND2	2.65	0.60
1:E:167:GLU:HA	1:E:221:PRO:HA	1.84	0.60
1:E:426:VAL:O	1:F:510:ASN:ND2	2.27	0.60
1:F:176:TYR:CD1	1:F:238:GLU:OE1	2.54	0.60
1:F:223:LYS:HA	1:F:226:GLN:HG2	1.83	0.60
1:I:223:LYS:HA	1:I:226:GLN:HG2	1.83	0.60
1:I:176:TYR:CD1	1:I:238:GLU:OE1	2.54	0.60
1:J:176:TYR:CD1	1:J:238:GLU:OE1	2.54	0.60
1:J:295:GLN:CG	1:K:257:ASN:ND2	2.65	0.60
1:L:117:LEU:HD22	1:L:120:LEU:HD13	1.81	0.60
1:D:176:TYR:CD1	1:D:238:GLU:OE1	2.54	0.60
1:E:223:LYS:HA	1:E:226:GLN:HG2	1.83	0.60
1:F:167:GLU:HA	1:F:221:PRO:HA	1.84	0.60
1:F:295:GLN:CG	1:G:257:ASN:ND2	2.65	0.60
1:K:223:LYS:HA	1:K:226:GLN:HG2	1.83	0.60
1:M:295:GLN:CG	1:N:257:ASN:ND2	2.65	0.60
1:D:167:GLU:HA	1:D:221:PRO:HA	1.84	0.60
1:E:355:GLN:HB2	1:E:363:ILE:HG22	1.84	0.60
1:G:167:GLU:HA	1:G:221:PRO:HA	1.84	0.60
1:G:223:LYS:HA	1:G:226:GLN:HG2	1.83	0.60
1:L:246:ARG:NH1	1:L:308:GLN:HG3	2.16	0.60
1:L:295:GLN:CG	1:M:257:ASN:ND2	2.65	0.60
1:N:120:LEU:HD22	1:N:157:VAL:HG11	1.83	0.60
1:A:510:ASN:ND2	1:O:426:VAL:O	2.27	0.60
1:B:117:LEU:HD22	1:B:120:LEU:HD13	1.81	0.60
1:B:295:GLN:CG	1:C:257:ASN:ND2	2.65	0.60
1:E:120:LEU:HD22	1:E:157:VAL:HG11	1.83	0.60
1:H:223:LYS:HA	1:H:226:GLN:HG2	1.84	0.60
1:I:167:GLU:HA	1:I:221:PRO:HA	1.84	0.60
1:H:295:GLN:CG	1:I:257:ASN:ND2	2.65	0.60
1:J:167:GLU:HA	1:J:221:PRO:HA	1.84	0.60
1:A:168:LYS:N	1:A:220:GLY:O	2.30	0.60
1:B:426:VAL:O	1:C:510:ASN:ND2	2.27	0.60
1:C:121:LEU:HD22	1:C:154:LEU:HD23	1.82	0.60
1:C:167:GLU:HA	1:C:221:PRO:HA	1.84	0.60
1:I:120:LEU:HD22	1:I:157:VAL:HG11	1.83	0.60
1:K:295:GLN:CG	1:L:257:ASN:ND2	2.65	0.60
1:A:246:ARG:NH1	1:A:308:GLN:HG3	2.16	0.60
1:B:168:LYS:N	1:B:220:GLY:O	2.31	0.60
1:D:223:LYS:HA	1:D:226:GLN:HG2	1.83	0.60
1:H:167:GLU:HA	1:H:221:PRO:HA	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:479:ALA:O	1:I:480:VAL:HG13	2.01	0.60
1:K:167:GLU:HA	1:K:221:PRO:HA	1.84	0.60
1:N:246:ARG:NH1	1:N:308:GLN:HG3	2.16	0.60
1:O:479:ALA:O	1:O:480:VAL:HG13	2.01	0.60
1:D:355:GLN:HB2	1:D:363:ILE:HG22	1.84	0.60
1:F:120:LEU:HD22	1:F:157:VAL:HG11	1.83	0.60
1:F:355:GLN:HB2	1:F:363:ILE:HG22	1.84	0.60
1:L:223:LYS:HA	1:L:226:GLN:HG2	1.84	0.60
1:M:246:ARG:NH1	1:M:308:GLN:HG3	2.16	0.60
1:A:257:ASN:ND2	1:O:295:GLN:CG	2.65	0.59
1:I:168:LYS:N	1:I:220:GLY:O	2.31	0.59
1:K:479:ALA:O	1:K:480:VAL:HG13	2.01	0.59
1:M:479:ALA:O	1:M:480:VAL:HG13	2.01	0.59
1:B:355:GLN:HB2	1:B:363:ILE:HG22	1.84	0.59
1:C:355:GLN:HB2	1:C:363:ILE:HG22	1.84	0.59
1:C:295:GLN:CG	1:D:257:ASN:ND2	2.65	0.59
1:H:355:GLN:HB2	1:H:363:ILE:HG22	1.84	0.59
1:L:167:GLU:HA	1:L:221:PRO:HA	1.84	0.59
1:M:120:LEU:HD22	1:M:157:VAL:HG11	1.83	0.59
1:O:246:ARG:NH1	1:O:308:GLN:HG3	2.16	0.59
1:N:295:GLN:CG	1:O:257:ASN:ND2	2.65	0.59
1:E:479:ALA:O	1:E:480:VAL:HG13	2.01	0.59
1:F:426:VAL:O	1:G:510:ASN:ND2	2.27	0.59
1:I:355:GLN:HB2	1:I:363:ILE:HG22	1.84	0.59
1:B:167:GLU:HA	1:B:221:PRO:HA	1.84	0.59
1:C:157:VAL:HG22	1:C:160:ARG:NH2	2.18	0.59
1:C:168:LYS:HD2	1:C:169:GLN:H	1.68	0.59
1:G:355:GLN:HB2	1:G:363:ILE:HG22	1.84	0.59
1:G:479:ALA:O	1:G:480:VAL:HG13	2.01	0.59
1:N:210:ASP:HB3	1:N:215:SER:H	1.68	0.59
1:A:210:ASP:HB3	1:A:215:SER:H	1.68	0.59
1:A:355:GLN:HB2	1:A:363:ILE:HG22	1.84	0.59
1:K:157:VAL:HG22	1:K:160:ARG:NH2	2.18	0.59
1:M:167:GLU:HA	1:M:221:PRO:HA	1.84	0.59
1:L:249:TYR:OH	1:M:317:ARG:O	2.17	0.59
1:O:157:VAL:HG22	1:O:160:ARG:NH2	2.18	0.59
1:B:120:LEU:HD22	1:B:157:VAL:HG11	1.83	0.59
1:B:168:LYS:HD2	1:B:169:GLN:H	1.68	0.59
1:D:168:LYS:HD2	1:D:169:GLN:H	1.68	0.59
1:H:157:VAL:HG22	1:H:160:ARG:NH2	2.18	0.59
1:J:120:LEU:HD22	1:J:157:VAL:HG11	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:168:LYS:HD2	1:L:169:GLN:H	1.68	0.59
1:M:168:LYS:HD2	1:M:169:GLN:H	1.68	0.59
1:M:210:ASP:HB3	1:M:215:SER:H	1.68	0.59
1:O:210:ASP:HB3	1:O:215:SER:H	1.68	0.59
1:C:223:LYS:HA	1:C:226:GLN:HG2	1.83	0.59
1:D:372:ASP:OD2	1:D:383:ASN:ND2	2.36	0.59
1:E:372:ASP:OD2	1:E:383:ASN:ND2	2.36	0.59
1:F:157:VAL:HG22	1:F:160:ARG:NH2	2.18	0.59
1:G:295:GLN:CG	1:H:257:ASN:ND2	2.65	0.59
1:I:157:VAL:HG22	1:I:160:ARG:NH2	2.18	0.59
1:M:223:LYS:HA	1:M:226:GLN:HG2	1.83	0.59
1:N:157:VAL:HG22	1:N:160:ARG:NH2	2.18	0.59
1:B:223:LYS:HA	1:B:226:GLN:HG2	1.83	0.59
1:K:168:LYS:HD2	1:K:169:GLN:H	1.68	0.59
1:L:120:LEU:HD22	1:L:157:VAL:HG11	1.83	0.59
1:N:167:GLU:HA	1:N:221:PRO:HA	1.84	0.59
1:N:223:LYS:HA	1:N:226:GLN:HG2	1.83	0.59
1:A:167:GLU:HA	1:A:221:PRO:HA	1.84	0.59
1:C:426:VAL:O	1:D:510:ASN:ND2	2.27	0.59
1:F:372:ASP:OD2	1:F:383:ASN:ND2	2.36	0.59
1:G:157:VAL:HG22	1:G:160:ARG:NH2	2.18	0.59
1:H:249:TYR:OH	1:I:317:ARG:O	2.17	0.59
1:L:157:VAL:HG22	1:L:160:ARG:NH2	2.18	0.59
1:L:210:ASP:HB3	1:L:215:SER:H	1.68	0.59
1:D:157:VAL:HG22	1:D:160:ARG:NH2	2.18	0.59
1:I:168:LYS:HD2	1:I:169:GLN:H	1.68	0.59
1:N:168:LYS:HD2	1:N:169:GLN:H	1.68	0.59
1:O:167:GLU:HA	1:O:221:PRO:HA	1.84	0.59
1:B:157:VAL:HG22	1:B:160:ARG:NH2	2.18	0.58
1:B:210:ASP:HB3	1:B:215:SER:H	1.68	0.58
1:A:249:TYR:OH	1:B:317:ARG:O	2.17	0.58
1:C:372:ASP:OD2	1:C:383:ASN:ND2	2.36	0.58
1:O:168:LYS:N	1:O:220:GLY:O	2.31	0.58
1:A:157:VAL:HG22	1:A:160:ARG:NH2	2.18	0.58
1:F:206:LYS:HZ1	1:G:190:ILE:HB	1.67	0.58
1:G:372:ASP:OD2	1:G:383:ASN:ND2	2.36	0.58
1:J:168:LYS:HD2	1:J:169:GLN:H	1.68	0.58
1:J:355:GLN:HB2	1:J:363:ILE:HG22	1.84	0.58
1:K:372:ASP:OD2	1:K:383:ASN:ND2	2.36	0.58
1:N:372:ASP:OD2	1:N:383:ASN:ND2	2.36	0.58
1:O:355:GLN:HB2	1:O:363:ILE:HG22	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:372:ASP:OD2	1:O:383:ASN:ND2	2.36	0.58
1:A:223:LYS:HA	1:A:226:GLN:HG2	1.83	0.58
1:E:168:LYS:HD2	1:E:169:GLN:H	1.68	0.58
1:G:168:LYS:HD2	1:G:169:GLN:H	1.68	0.58
1:J:157:VAL:HG22	1:J:160:ARG:NH2	2.18	0.58
1:J:372:ASP:OD2	1:J:383:ASN:ND2	2.36	0.58
1:K:355:GLN:HB2	1:K:363:ILE:HG22	1.84	0.58
1:O:223:LYS:HA	1:O:226:GLN:HG2	1.83	0.58
1:D:210:ASP:HB3	1:D:215:SER:H	1.68	0.58
1:K:120:LEU:HD22	1:K:157:VAL:HG11	1.83	0.58
1:N:355:GLN:HB2	1:N:363:ILE:HG22	1.84	0.58
1:A:372:ASP:OD2	1:A:383:ASN:ND2	2.36	0.58
1:A:479:ALA:O	1:A:570:ILE:HD11	2.04	0.58
1:K:210:ASP:HB3	1:K:215:SER:H	1.68	0.58
1:M:372:ASP:OD2	1:M:383:ASN:ND2	2.36	0.58
1:O:479:ALA:O	1:O:570:ILE:HD11	2.04	0.58
1:A:168:LYS:HD2	1:A:169:GLN:H	1.68	0.58
1:B:479:ALA:O	1:B:570:ILE:HD11	2.04	0.58
1:G:426:VAL:O	1:H:510:ASN:ND2	2.27	0.58
1:H:479:ALA:O	1:H:570:ILE:HD11	2.04	0.58
1:I:578:ARG:O	1:I:582:LYS:N	2.32	0.58
1:L:355:GLN:HB2	1:L:363:ILE:HG22	1.84	0.58
1:E:157:VAL:HG22	1:E:160:ARG:NH2	2.18	0.58
1:J:210:ASP:HB3	1:J:215:SER:H	1.68	0.58
1:M:355:GLN:HB2	1:M:363:ILE:HG22	1.84	0.58
1:N:479:ALA:O	1:N:570:ILE:HD11	2.04	0.58
1:B:354:GLN:NE2	1:B:356:PHE:HE2	2.02	0.58
1:C:210:ASP:HB3	1:C:215:SER:H	1.68	0.58
1:D:479:ALA:O	1:D:570:ILE:HD11	2.04	0.58
1:G:578:ARG:O	1:G:582:LYS:N	2.32	0.58
1:H:372:ASP:OD2	1:H:383:ASN:ND2	2.36	0.58
1:I:372:ASP:OD2	1:I:383:ASN:ND2	2.36	0.58
1:C:354:GLN:NE2	1:C:356:PHE:HE2	2.02	0.58
1:C:479:ALA:O	1:C:570:ILE:HD11	2.04	0.58
1:E:479:ALA:O	1:E:570:ILE:HD11	2.04	0.58
1:H:168:LYS:HD2	1:H:169:GLN:H	1.68	0.58
1:H:168:LYS:N	1:H:220:GLY:O	2.31	0.58
1:M:157:VAL:HG22	1:M:160:ARG:NH2	2.18	0.58
1:M:479:ALA:O	1:M:570:ILE:HD11	2.04	0.58
1:A:578:ARG:O	1:A:582:LYS:N	2.32	0.58
1:D:354:GLN:NE2	1:D:356:PHE:HE2	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:479:ALA:O	1:I:570:ILE:HD11	2.04	0.58
1:L:372:ASP:OD2	1:L:383:ASN:ND2	2.36	0.58
1:O:168:LYS:HD2	1:O:169:GLN:H	1.68	0.58
1:B:372:ASP:OD2	1:B:383:ASN:ND2	2.36	0.57
1:E:210:ASP:HB3	1:E:215:SER:H	1.68	0.57
1:L:479:ALA:O	1:L:570:ILE:HD11	2.04	0.57
1:D:249:TYR:OH	1:E:317:ARG:O	2.17	0.57
1:G:210:ASP:HB3	1:G:215:SER:H	1.68	0.57
1:G:479:ALA:O	1:G:570:ILE:HD11	2.04	0.57
1:K:479:ALA:O	1:K:570:ILE:HD11	2.04	0.57
1:M:354:GLN:NE2	1:M:356:PHE:HE2	2.02	0.57
1:F:168:LYS:HD2	1:F:169:GLN:H	1.68	0.57
1:J:479:ALA:O	1:J:570:ILE:HD11	2.04	0.57
1:N:354:GLN:NE2	1:N:356:PHE:HE2	2.02	0.57
1:C:231:LEU:O	1:C:234:SER:HB2	2.05	0.57
1:E:231:LEU:O	1:E:234:SER:HB2	2.05	0.57
1:E:354:GLN:NE2	1:E:356:PHE:HE2	2.02	0.57
1:N:185:ILE:HG13	1:N:186:LEU:N	2.20	0.57
1:N:168:LYS:N	1:N:220:GLY:O	2.31	0.57
1:O:185:ILE:HG13	1:O:186:LEU:N	2.20	0.57
1:A:185:ILE:HG13	1:A:186:LEU:N	2.20	0.57
1:A:231:LEU:O	1:A:234:SER:HB2	2.05	0.57
1:B:231:LEU:O	1:B:234:SER:HB2	2.05	0.57
1:D:231:LEU:O	1:D:234:SER:HB2	2.05	0.57
1:F:231:LEU:O	1:F:234:SER:HB2	2.05	0.57
1:H:210:ASP:HB3	1:H:215:SER:H	1.68	0.57
1:M:231:LEU:O	1:M:234:SER:HB2	2.05	0.57
1:L:185:ILE:HG13	1:L:186:LEU:N	2.20	0.57
1:O:231:LEU:O	1:O:234:SER:HB2	2.05	0.57
1:A:354:GLN:NE2	1:A:356:PHE:HE2	2.02	0.57
1:F:479:ALA:O	1:F:570:ILE:HD11	2.04	0.57
1:L:354:GLN:NE2	1:L:356:PHE:HE2	2.02	0.57
1:I:231:LEU:O	1:I:234:SER:HB2	2.05	0.57
1:J:185:ILE:HG13	1:J:186:LEU:N	2.20	0.57
1:J:231:LEU:O	1:J:234:SER:HB2	2.05	0.57
1:N:231:LEU:O	1:N:234:SER:HB2	2.05	0.57
1:O:354:GLN:NE2	1:O:356:PHE:HE2	2.02	0.57
1:G:176:TYR:CE1	1:G:238:GLU:OE1	2.58	0.57
1:J:176:TYR:CE1	1:J:238:GLU:OE1	2.58	0.57
1:L:176:TYR:CE1	1:L:238:GLU:OE1	2.58	0.57
1:C:185:ILE:HG13	1:C:186:LEU:N	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:176:TYR:CE1	1:F:238:GLU:OE1	2.58	0.56
1:I:210:ASP:HB3	1:I:215:SER:H	1.68	0.56
1:M:185:ILE:HG13	1:M:186:LEU:N	2.20	0.56
1:H:354:GLN:NE2	1:H:356:PHE:HE2	2.02	0.56
1:H:426:VAL:O	1:I:510:ASN:ND2	2.27	0.56
1:I:176:TYR:CE1	1:I:238:GLU:OE1	2.58	0.56
1:K:185:ILE:HG13	1:K:186:LEU:N	2.20	0.56
1:K:249:TYR:OH	1:L:317:ARG:O	2.17	0.56
1:G:231:LEU:O	1:G:234:SER:HB2	2.05	0.56
1:H:176:TYR:CE1	1:H:238:GLU:OE1	2.58	0.56
1:I:354:GLN:NE2	1:I:356:PHE:HE2	2.02	0.56
1:K:176:TYR:CE1	1:K:238:GLU:OE1	2.58	0.56
1:L:231:LEU:O	1:L:234:SER:HB2	2.05	0.56
1:M:176:TYR:CE1	1:M:238:GLU:OE1	2.58	0.56
1:A:344:VAL:HB	1:A:549:LEU:O	2.06	0.56
1:H:185:ILE:HG13	1:H:186:LEU:N	2.20	0.56
1:B:185:ILE:HG13	1:B:186:LEU:N	2.20	0.56
1:F:210:ASP:HB3	1:F:215:SER:H	1.68	0.56
1:J:344:VAL:HB	1:J:549:LEU:O	2.06	0.56
1:L:578:ARG:O	1:L:582:LYS:N	2.32	0.56
1:N:344:VAL:HB	1:N:549:LEU:O	2.06	0.56
1:O:578:ARG:O	1:O:582:LYS:N	2.32	0.56
1:D:185:ILE:HG13	1:D:186:LEU:N	2.20	0.56
1:E:344:VAL:HB	1:E:549:LEU:O	2.06	0.56
1:F:185:ILE:HG13	1:F:186:LEU:N	2.20	0.56
1:F:354:GLN:NE2	1:F:356:PHE:HE2	2.02	0.56
1:H:344:VAL:HB	1:H:549:LEU:O	2.06	0.56
1:I:344:VAL:HB	1:I:549:LEU:O	2.06	0.56
1:K:344:VAL:HB	1:K:549:LEU:O	2.06	0.56
1:L:344:VAL:HB	1:L:549:LEU:O	2.06	0.56
1:M:344:VAL:HB	1:M:549:LEU:O	2.06	0.56
1:N:176:TYR:CE1	1:N:238:GLU:OE1	2.58	0.56
1:O:344:VAL:HB	1:O:549:LEU:O	2.06	0.56
1:C:258:LEU:CD2	1:C:318:LEU:HD23	2.36	0.56
1:H:231:LEU:O	1:H:234:SER:HB2	2.05	0.56
1:E:176:TYR:CE1	1:E:238:GLU:OE1	2.58	0.56
1:G:124:MET:HG2	1:G:154:LEU:HG	1.88	0.56
1:J:124:MET:HG2	1:J:154:LEU:HG	1.88	0.56
1:J:354:GLN:NE2	1:J:356:PHE:HE2	2.02	0.56
1:D:344:VAL:HB	1:D:549:LEU:O	2.06	0.56
1:E:161:VAL:HA	1:E:164:ILE:HG12	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:185:ILE:HG13	1:G:186:LEU:N	2.20	0.56
1:G:182:LEU:HD21	1:G:216:LEU:HD22	1.88	0.56
1:G:354:GLN:NE2	1:G:356:PHE:HE2	2.02	0.56
1:I:124:MET:HG2	1:I:154:LEU:HG	1.88	0.56
1:I:161:VAL:HA	1:I:164:ILE:HG12	1.88	0.56
1:I:182:LEU:HD21	1:I:216:LEU:HD22	1.88	0.56
1:J:182:LEU:HD21	1:J:216:LEU:HD22	1.88	0.56
1:K:231:LEU:O	1:K:234:SER:HB2	2.05	0.56
1:K:354:GLN:NE2	1:K:356:PHE:HE2	2.02	0.56
1:M:182:LEU:HD21	1:M:216:LEU:HD22	1.88	0.56
1:F:161:VAL:HA	1:F:164:ILE:HG12	1.88	0.56
1:F:182:LEU:HD21	1:F:216:LEU:HD22	1.88	0.56
1:G:344:VAL:HB	1:G:549:LEU:O	2.06	0.56
1:H:124:MET:HG2	1:H:154:LEU:HG	1.88	0.56
1:H:161:VAL:HA	1:H:164:ILE:HG12	1.88	0.56
1:I:185:ILE:HG13	1:I:186:LEU:N	2.20	0.56
1:J:249:TYR:OH	1:K:317:ARG:O	2.17	0.56
1:L:124:MET:HG2	1:L:154:LEU:HG	1.88	0.56
1:L:182:LEU:HD21	1:L:216:LEU:HD22	1.88	0.56
1:N:182:LEU:HD21	1:N:216:LEU:HD22	1.88	0.56
1:B:176:TYR:CE1	1:B:238:GLU:OE1	2.58	0.56
1:C:176:TYR:CE1	1:C:238:GLU:OE1	2.58	0.56
1:D:258:LEU:CD2	1:D:318:LEU:HD23	2.36	0.56
1:E:185:ILE:HG13	1:E:186:LEU:N	2.20	0.56
1:F:249:TYR:OH	1:G:317:ARG:O	2.17	0.56
1:G:249:TYR:OH	1:H:317:ARG:O	2.17	0.56
1:A:182:LEU:HD21	1:A:216:LEU:HD22	1.88	0.55
1:B:344:VAL:HB	1:B:549:LEU:O	2.06	0.55
1:F:344:VAL:HB	1:F:549:LEU:O	2.06	0.55
1:E:603:LEU:HD13	1:G:551:ARG:NH1	2.21	0.55
1:H:182:LEU:HD21	1:H:216:LEU:HD22	1.88	0.55
1:K:124:MET:HG2	1:K:154:LEU:HG	1.88	0.55
1:M:124:MET:HG2	1:M:154:LEU:HG	1.88	0.55
1:A:176:TYR:CE1	1:A:238:GLU:OE1	2.58	0.55
1:D:161:VAL:HA	1:D:164:ILE:HG12	1.88	0.55
1:D:182:LEU:HD21	1:D:216:LEU:HD22	1.88	0.55
1:J:161:VAL:HA	1:J:164:ILE:HG12	1.88	0.55
1:K:182:LEU:HD21	1:K:216:LEU:HD22	1.88	0.55
1:M:168:LYS:N	1:M:220:GLY:O	2.31	0.55
1:E:124:MET:HG2	1:E:154:LEU:HG	1.88	0.55
1:G:161:VAL:HA	1:G:164:ILE:HG12	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:182:LEU:HD21	1:O:216:LEU:HD22	1.88	0.55
1:C:161:VAL:HA	1:C:164:ILE:HG12	1.88	0.55
1:C:182:LEU:HD21	1:C:216:LEU:HD22	1.88	0.55
1:C:603:LEU:HD13	1:E:551:ARG:NH1	2.21	0.55
1:F:266:SER:HB3	1:F:290:ILE:HD11	1.89	0.55
1:D:603:LEU:HD13	1:F:551:ARG:NH1	2.21	0.55
1:G:603:LEU:HD13	1:I:551:ARG:NH1	2.21	0.55
1:B:161:VAL:HA	1:B:164:ILE:HG12	1.88	0.55
1:B:182:LEU:HD21	1:B:216:LEU:HD22	1.88	0.55
1:D:176:TYR:CE1	1:D:238:GLU:OE1	2.58	0.55
1:E:182:LEU:HD21	1:E:216:LEU:HD22	1.88	0.55
1:E:266:SER:HB3	1:E:290:ILE:HD11	1.89	0.55
1:J:105:ARG:NE	1:J:151:ILE:HD12	2.22	0.55
1:K:161:VAL:HA	1:K:164:ILE:HG12	1.88	0.55
1:L:161:VAL:HA	1:L:164:ILE:HG12	1.88	0.55
1:O:176:TYR:CE1	1:O:238:GLU:OE1	2.58	0.55
1:G:266:SER:HB3	1:G:290:ILE:HD11	1.89	0.55
1:M:603:LEU:HD13	1:O:551:ARG:NH1	2.21	0.55
1:D:124:MET:HG2	1:D:154:LEU:HG	1.88	0.55
1:F:124:MET:HG2	1:F:154:LEU:HG	1.88	0.55
1:J:151:ILE:O	1:J:155:ILE:HG12	2.07	0.55
1:K:153:LYS:HA	1:K:156:GLU:HB2	1.89	0.55
1:K:496:ASN:OD1	1:K:497:SER:N	2.40	0.55
1:K:603:LEU:HD13	1:M:551:ARG:NH1	2.21	0.55
1:A:551:ARG:NH1	1:N:603:LEU:HD13	2.21	0.55
1:B:151:ILE:O	1:B:155:ILE:HG12	2.07	0.55
1:C:344:VAL:HB	1:C:549:LEU:O	2.06	0.55
1:B:603:LEU:HD13	1:D:551:ARG:NH1	2.21	0.55
1:F:151:ILE:O	1:F:155:ILE:HG12	2.07	0.55
1:F:603:LEU:HD13	1:H:551:ARG:NH1	2.21	0.55
1:K:258:LEU:CD2	1:K:318:LEU:HD23	2.36	0.55
1:M:258:LEU:CD2	1:M:318:LEU:HD23	2.36	0.55
1:M:496:ASN:OD1	1:M:497:SER:N	2.40	0.55
1:O:266:SER:HB3	1:O:290:ILE:HD11	1.89	0.55
1:B:551:ARG:NH1	1:O:603:LEU:HD13	2.21	0.55
1:D:266:SER:HB3	1:D:290:ILE:HD11	1.89	0.55
1:I:426:VAL:O	1:J:510:ASN:ND2	2.27	0.55
1:J:258:LEU:CD2	1:J:318:LEU:HD23	2.36	0.55
1:J:496:ASN:OD1	1:J:497:SER:N	2.40	0.55
1:L:258:LEU:CD2	1:L:318:LEU:HD23	2.36	0.55
1:N:124:MET:HG2	1:N:154:LEU:HG	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:124:MET:HG2	1:O:154:LEU:HG	1.88	0.55
1:B:496:ASN:OD1	1:B:497:SER:N	2.40	0.55
1:F:496:ASN:OD1	1:F:497:SER:N	2.40	0.55
1:H:258:LEU:CD2	1:H:318:LEU:HD23	2.36	0.55
1:J:153:LYS:HA	1:J:156:GLU:HB2	1.89	0.55
1:J:426:VAL:O	1:K:510:ASN:ND2	2.27	0.55
1:N:266:SER:HB3	1:N:290:ILE:HD11	1.89	0.55
1:M:414:ASN:HB3	1:N:534:VAL:HG22	1.90	0.55
1:A:151:ILE:O	1:A:155:ILE:HG12	2.07	0.54
1:A:124:MET:HG2	1:A:154:LEU:HG	1.88	0.54
1:A:266:SER:HB3	1:A:290:ILE:HD11	1.89	0.54
1:C:151:ILE:O	1:C:155:ILE:HG12	2.07	0.54
1:C:496:ASN:OD1	1:C:497:SER:N	2.40	0.54
1:E:151:ILE:O	1:E:155:ILE:HG12	2.07	0.54
1:E:258:LEU:CD2	1:E:318:LEU:HD23	2.36	0.54
1:E:496:ASN:OD1	1:E:497:SER:N	2.40	0.54
1:G:105:ARG:NE	1:G:151:ILE:HD12	2.22	0.54
1:G:288:VAL:HG22	1:G:303:ALA:CB	2.38	0.54
1:I:105:ARG:NE	1:I:151:ILE:HD12	2.22	0.54
1:I:151:ILE:O	1:I:155:ILE:HG12	2.07	0.54
1:I:496:ASN:OD1	1:I:497:SER:N	2.40	0.54
1:K:414:ASN:HB3	1:L:534:VAL:HG22	1.90	0.54
1:N:161:VAL:HA	1:N:164:ILE:HG12	1.88	0.54
1:L:603:LEU:HD13	1:N:551:ARG:NH1	2.21	0.54
1:O:161:VAL:HA	1:O:164:ILE:HG12	1.88	0.54
1:A:161:VAL:HA	1:A:164:ILE:HG12	1.88	0.54
1:E:105:ARG:NE	1:E:151:ILE:HD12	2.22	0.54
1:E:118:ALA:HA	1:E:136:TYR:OH	2.07	0.54
1:F:105:ARG:NE	1:F:151:ILE:HD12	2.22	0.54
1:H:414:ASN:HB3	1:I:534:VAL:HG22	1.90	0.54
1:K:105:ARG:NE	1:K:151:ILE:HD12	2.22	0.54
1:K:151:ILE:O	1:K:155:ILE:HG12	2.07	0.54
1:I:603:LEU:HD13	1:K:551:ARG:NH1	2.21	0.54
1:M:118:ALA:HA	1:M:136:TYR:OH	2.07	0.54
1:M:161:VAL:HA	1:M:164:ILE:HG12	1.88	0.54
1:N:258:LEU:CD2	1:N:318:LEU:HD23	2.36	0.54
1:N:496:ASN:OD1	1:N:497:SER:N	2.40	0.54
1:A:603:LEU:HD13	1:C:551:ARG:NH1	2.21	0.54
1:C:288:VAL:HG22	1:C:303:ALA:CB	2.38	0.54
1:D:105:ARG:NE	1:D:151:ILE:HD12	2.22	0.54
1:D:118:ALA:HA	1:D:136:TYR:OH	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:414:ASN:HB3	1:K:534:VAL:HG22	1.90	0.54
1:N:153:LYS:HA	1:N:156:GLU:HB2	1.89	0.54
1:N:414:ASN:HB3	1:O:534:VAL:HG22	1.90	0.54
1:A:288:VAL:HG22	1:A:303:ALA:CB	2.38	0.54
1:B:124:MET:HG2	1:B:154:LEU:HG	1.88	0.54
1:B:288:VAL:HG22	1:B:303:ALA:CB	2.38	0.54
1:C:105:ARG:NE	1:C:151:ILE:HD12	2.22	0.54
1:F:130:VAL:HG22	1:F:131:GLY:H	1.73	0.54
1:G:151:ILE:O	1:G:155:ILE:HG12	2.07	0.54
1:H:578:ARG:O	1:H:582:LYS:N	2.32	0.54
1:I:221:PRO:HG2	1:I:224:ALA:H	1.73	0.54
1:J:414:ASN:HB3	1:J:534:VAL:HG22	1.90	0.54
1:L:118:ALA:HA	1:L:136:TYR:OH	2.07	0.54
1:C:124:MET:HG2	1:C:154:LEU:HG	1.88	0.54
1:D:288:VAL:HG22	1:D:303:ALA:CB	2.38	0.54
1:G:130:VAL:HG22	1:G:131:GLY:H	1.73	0.54
1:G:221:PRO:HG2	1:G:224:ALA:H	1.73	0.54
1:H:221:PRO:HG2	1:H:224:ALA:H	1.73	0.54
1:H:266:SER:HB3	1:H:290:ILE:HD11	1.89	0.54
1:M:105:ARG:NE	1:M:151:ILE:HD12	2.22	0.54
1:M:266:SER:HB3	1:M:290:ILE:HD11	1.89	0.54
1:L:414:ASN:HB3	1:M:534:VAL:HG22	1.90	0.54
1:N:118:ALA:HA	1:N:136:TYR:OH	2.07	0.54
1:O:288:VAL:HG22	1:O:303:ALA:CB	2.38	0.54
1:O:473:GLN:HB3	1:O:481:LEU:HB3	1.90	0.54
1:B:105:ARG:NE	1:B:151:ILE:HD12	2.22	0.54
1:B:130:VAL:HG22	1:B:131:GLY:H	1.73	0.54
1:B:266:SER:HB3	1:B:290:ILE:HD11	1.89	0.54
1:A:414:ASN:HB3	1:B:534:VAL:HG22	1.90	0.54
1:B:212:ARG:HH12	1:C:177:ALA:CB	2.21	0.54
1:C:212:ARG:HH12	1:D:177:ALA:CB	2.21	0.54
1:D:212:ARG:HH12	1:E:177:ALA:CB	2.21	0.54
1:E:288:VAL:HG22	1:E:303:ALA:CB	2.38	0.54
1:E:212:ARG:HH12	1:F:177:ALA:CB	2.21	0.54
1:H:288:VAL:HG22	1:H:303:ALA:CB	2.38	0.54
1:M:153:LYS:HA	1:M:156:GLU:HB2	1.89	0.54
1:N:105:ARG:NE	1:N:151:ILE:HD12	2.22	0.54
1:O:130:VAL:HG22	1:O:131:GLY:H	1.73	0.54
1:A:473:GLN:HB3	1:A:481:LEU:HB3	1.90	0.54
1:C:118:ALA:HA	1:C:136:TYR:OH	2.07	0.54
1:D:224:ALA:HA	1:D:227:ARG:HG2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:130:VAL:HG22	1:E:131:GLY:H	1.73	0.54
1:E:153:LYS:HA	1:E:156:GLU:HB2	1.89	0.54
1:F:288:VAL:HG22	1:F:303:ALA:CB	2.38	0.54
1:F:473:GLN:HB3	1:F:481:LEU:HB3	1.90	0.54
1:H:153:LYS:HA	1:H:156:GLU:HB2	1.89	0.54
1:K:118:ALA:HA	1:K:136:TYR:OH	2.07	0.54
1:L:153:LYS:HA	1:L:156:GLU:HB2	1.89	0.54
1:L:266:SER:HB3	1:L:290:ILE:HD11	1.89	0.54
1:L:496:ASN:OD1	1:L:497:SER:N	2.40	0.54
1:N:130:VAL:HG22	1:N:131:GLY:H	1.73	0.54
1:N:473:GLN:HB3	1:N:481:LEU:HB3	1.90	0.54
1:A:534:VAL:HG22	1:O:414:ASN:HB3	1.90	0.54
1:A:224:ALA:HA	1:A:227:ARG:HG2	1.90	0.54
1:B:224:ALA:HA	1:B:227:ARG:HG2	1.90	0.54
1:C:153:LYS:HA	1:C:156:GLU:HB2	1.89	0.54
1:D:130:VAL:HG22	1:D:131:GLY:H	1.73	0.54
1:C:249:TYR:OH	1:D:317:ARG:O	2.17	0.54
1:F:118:ALA:HA	1:F:136:TYR:OH	2.07	0.54
1:F:221:PRO:HG2	1:F:224:ALA:H	1.73	0.54
1:G:118:ALA:HA	1:G:136:TYR:OH	2.07	0.54
1:G:153:LYS:HA	1:G:156:GLU:HB2	1.89	0.54
1:H:118:ALA:HA	1:H:136:TYR:OH	2.07	0.54
1:G:414:ASN:HB3	1:H:534:VAL:HG22	1.90	0.54
1:I:288:VAL:HG22	1:I:303:ALA:CB	2.38	0.54
1:H:603:LEU:HD13	1:J:551:ARG:NH1	2.21	0.54
1:L:224:ALA:HA	1:L:227:ARG:HG2	1.90	0.54
1:N:224:ALA:HA	1:N:227:ARG:HG2	1.90	0.54
1:O:118:ALA:HA	1:O:136:TYR:OH	2.07	0.54
1:O:151:ILE:O	1:O:155:ILE:HG12	2.07	0.54
1:O:153:LYS:HA	1:O:156:GLU:HB2	1.89	0.54
1:O:496:ASN:OD1	1:O:497:SER:N	2.40	0.54
1:A:130:VAL:HG22	1:A:131:GLY:H	1.73	0.54
1:A:496:ASN:OD1	1:A:497:SER:N	2.40	0.54
1:C:224:ALA:HA	1:C:227:ARG:HG2	1.90	0.54
1:C:266:SER:HB3	1:C:290:ILE:HD11	1.89	0.54
1:E:224:ALA:HA	1:E:227:ARG:HG2	1.90	0.54
1:E:216:LEU:HD23	1:E:232:LEU:HD11	1.90	0.54
1:F:134:VAL:HG22	1:F:144:LEU:HD22	1.90	0.54
1:G:216:LEU:HD23	1:G:232:LEU:HD11	1.90	0.54
1:G:473:GLN:HB3	1:G:481:LEU:HB3	1.90	0.54
1:G:496:ASN:OD1	1:G:497:SER:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:414:ASN:HB3	1:G:534:VAL:HG22	1.90	0.54
1:H:134:VAL:HG22	1:H:144:LEU:HD22	1.90	0.54
1:H:151:ILE:O	1:H:155:ILE:HG12	2.07	0.54
1:I:118:ALA:HA	1:I:136:TYR:OH	2.07	0.54
1:J:221:PRO:HG2	1:J:224:ALA:H	1.73	0.54
1:J:288:VAL:HG22	1:J:303:ALA:CB	2.38	0.54
1:K:224:ALA:HA	1:K:227:ARG:HG2	1.90	0.54
1:K:288:VAL:HG22	1:K:303:ALA:CB	2.38	0.54
1:L:151:ILE:O	1:L:155:ILE:HG12	2.07	0.54
1:A:118:ALA:HA	1:A:136:TYR:OH	2.07	0.54
1:A:134:VAL:HG22	1:A:144:LEU:HD22	1.90	0.54
1:A:105:ARG:NE	1:A:151:ILE:HD12	2.22	0.54
1:B:414:ASN:HB3	1:C:534:VAL:HG22	1.90	0.54
1:D:216:LEU:HD23	1:D:232:LEU:HD11	1.90	0.54
1:D:578:ARG:O	1:D:582:LYS:N	2.32	0.54
1:E:221:PRO:HG2	1:E:224:ALA:H	1.73	0.54
1:E:473:GLN:HB3	1:E:481:LEU:HB3	1.90	0.54
1:F:212:ARG:HH12	1:G:177:ALA:CB	2.21	0.54
1:F:216:LEU:HD23	1:F:232:LEU:HD11	1.91	0.54
1:E:414:ASN:HB3	1:F:534:VAL:HG22	1.90	0.54
1:H:105:ARG:NE	1:H:151:ILE:HD12	2.22	0.54
1:H:130:VAL:HG22	1:H:131:GLY:H	1.73	0.54
1:K:266:SER:HB3	1:K:290:ILE:HD11	1.89	0.54
1:L:105:ARG:NE	1:L:151:ILE:HD12	2.22	0.54
1:L:212:ARG:HH12	1:M:177:ALA:CB	2.21	0.54
1:M:224:ALA:HA	1:M:227:ARG:HG2	1.90	0.54
1:N:288:VAL:HG22	1:N:303:ALA:CB	2.38	0.54
1:O:224:ALA:HA	1:O:227:ARG:HG2	1.90	0.54
1:O:258:LEU:CD2	1:O:318:LEU:HD23	2.36	0.54
1:A:212:ARG:HH12	1:B:177:ALA:CB	2.21	0.53
1:C:216:LEU:HD23	1:C:232:LEU:HD11	1.90	0.53
1:D:134:VAL:HG22	1:D:144:LEU:HD22	1.90	0.53
1:D:496:ASN:OD1	1:D:497:SER:N	2.40	0.53
1:E:304:ASP:OD1	1:E:305:GLN:N	2.42	0.53
1:K:212:ARG:HH12	1:L:177:ALA:CB	2.21	0.53
1:K:304:ASP:OD1	1:K:305:GLN:N	2.42	0.53
1:M:473:GLN:HB3	1:M:481:LEU:HB3	1.90	0.53
1:N:134:VAL:HG22	1:N:144:LEU:HD22	1.90	0.53
1:M:212:ARG:HH12	1:N:177:ALA:CB	2.21	0.53
1:N:578:ARG:O	1:N:582:LYS:N	2.32	0.53
1:O:105:ARG:NE	1:O:151:ILE:HD12	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:153:LYS:HA	1:B:156:GLU:HB2	1.89	0.53
1:D:304:ASP:OD1	1:D:305:GLN:N	2.42	0.53
1:F:304:ASP:OD1	1:F:305:GLN:N	2.42	0.53
1:F:258:LEU:CD2	1:F:318:LEU:HD23	2.36	0.53
1:H:216:LEU:HD23	1:H:232:LEU:HD11	1.90	0.53
1:K:578:ARG:O	1:K:582:LYS:N	2.32	0.53
1:M:130:VAL:HG22	1:M:131:GLY:H	1.73	0.53
1:O:221:PRO:HG2	1:O:224:ALA:H	1.73	0.53
1:B:473:GLN:HB3	1:B:481:LEU:HB3	1.90	0.53
1:C:578:ARG:O	1:C:582:LYS:N	2.32	0.53
1:D:151:ILE:O	1:D:155:ILE:HG12	2.07	0.53
1:D:473:GLN:HB3	1:D:481:LEU:HB3	1.90	0.53
1:D:414:ASN:HB3	1:E:534:VAL:HG22	1.90	0.53
1:E:578:ARG:O	1:E:582:LYS:N	2.32	0.53
1:H:473:GLN:HB3	1:H:481:LEU:HB3	1.90	0.53
1:J:212:ARG:HH12	1:K:177:ALA:CB	2.21	0.53
1:L:168:LYS:N	1:L:220:GLY:O	2.30	0.53
1:J:603:LEU:HD13	1:L:551:ARG:NH1	2.21	0.53
1:M:288:VAL:HG22	1:M:303:ALA:CB	2.38	0.53
1:N:221:PRO:HG2	1:N:224:ALA:H	1.73	0.53
1:A:177:ALA:CB	1:O:212:ARG:HH12	2.21	0.53
1:C:304:ASP:OD1	1:C:305:GLN:N	2.42	0.53
1:D:153:LYS:HA	1:D:156:GLU:HB2	1.89	0.53
1:D:221:PRO:HG2	1:D:224:ALA:H	1.73	0.53
1:F:224:ALA:HA	1:F:227:ARG:HG2	1.90	0.53
1:F:578:ARG:O	1:F:582:LYS:N	2.32	0.53
1:H:224:ALA:HA	1:H:227:ARG:HG2	1.90	0.53
1:I:153:LYS:HA	1:I:156:GLU:HB2	1.89	0.53
1:J:118:ALA:HA	1:J:136:TYR:OH	2.07	0.53
1:J:134:VAL:HG22	1:J:144:LEU:HD22	1.90	0.53
1:I:212:ARG:HH12	1:J:177:ALA:CB	2.21	0.53
1:J:266:SER:HB3	1:J:290:ILE:HD11	1.89	0.53
1:L:304:ASP:OD1	1:L:305:GLN:N	2.42	0.53
1:N:212:ARG:HH12	1:O:177:ALA:CB	2.21	0.53
1:O:304:ASP:OD1	1:O:305:GLN:N	2.42	0.53
1:B:216:LEU:HD23	1:B:232:LEU:HD11	1.90	0.53
1:C:134:VAL:HG22	1:C:144:LEU:HD22	1.90	0.53
1:F:153:LYS:HA	1:F:156:GLU:HB2	1.89	0.53
1:G:157:VAL:HG22	1:G:160:ARG:HH21	1.74	0.53
1:G:224:ALA:HA	1:G:227:ARG:HG2	1.90	0.53
1:G:304:ASP:OD1	1:G:305:GLN:N	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:224:ALA:HA	1:I:227:ARG:HG2	1.90	0.53
1:I:216:LEU:HD23	1:I:232:LEU:HD11	1.90	0.53
1:I:266:SER:HB3	1:I:290:ILE:HD11	1.89	0.53
1:I:589:ARG:HG3	1:I:611:VAL:HG22	1.91	0.53
1:J:224:ALA:HA	1:J:227:ARG:HG2	1.90	0.53
1:J:304:ASP:OD1	1:J:305:GLN:N	2.42	0.53
1:J:589:ARG:HG3	1:J:611:VAL:HG22	1.91	0.53
1:L:134:VAL:HG22	1:L:144:LEU:HD22	1.90	0.53
1:L:288:VAL:HG22	1:L:303:ALA:CB	2.38	0.53
1:N:259:VAL:HG21	1:N:292:ALA:HB2	1.90	0.53
1:A:174:LEU:HG	1:A:216:LEU:N	2.24	0.53
1:B:134:VAL:HG22	1:B:144:LEU:HD22	1.90	0.53
1:H:212:ARG:HH12	1:I:177:ALA:CB	2.21	0.53
1:I:258:LEU:CD2	1:I:318:LEU:HD23	2.36	0.53
1:K:259:VAL:HG21	1:K:292:ALA:HB2	1.90	0.53
1:M:151:ILE:O	1:M:155:ILE:HG12	2.07	0.53
1:N:151:ILE:O	1:N:155:ILE:HG12	2.07	0.53
1:N:174:LEU:HG	1:N:216:LEU:N	2.24	0.53
1:A:221:PRO:HG2	1:A:224:ALA:H	1.73	0.53
1:B:118:ALA:HA	1:B:136:TYR:OH	2.07	0.53
1:D:259:VAL:HG21	1:D:292:ALA:HB2	1.90	0.53
1:C:414:ASN:HB3	1:D:534:VAL:HG22	1.90	0.53
1:G:589:ARG:HG3	1:G:611:VAL:HG22	1.91	0.53
1:H:496:ASN:OD1	1:H:497:SER:N	2.40	0.53
1:J:216:LEU:HD23	1:J:232:LEU:HD11	1.90	0.53
1:M:259:VAL:HG21	1:M:292:ALA:HB2	1.90	0.53
1:N:304:ASP:OD1	1:N:305:GLN:N	2.42	0.53
1:O:157:VAL:HG22	1:O:160:ARG:HH21	1.74	0.53
1:A:153:LYS:HA	1:A:156:GLU:HB2	1.89	0.53
1:A:216:LEU:HD23	1:A:232:LEU:HD11	1.90	0.53
1:A:304:ASP:OD1	1:A:305:GLN:N	2.42	0.53
1:B:242:GLU:HG2	1:B:243:GLY:H	1.60	0.53
1:C:174:LEU:HG	1:C:216:LEU:N	2.24	0.53
1:C:221:PRO:HG2	1:C:224:ALA:H	1.73	0.53
1:C:473:GLN:HB3	1:C:481:LEU:HB3	1.90	0.53
1:D:288:VAL:HG13	1:D:303:ALA:HB2	1.91	0.53
1:G:212:ARG:HH12	1:H:177:ALA:CB	2.21	0.53
1:H:174:LEU:HG	1:H:216:LEU:N	2.24	0.53
1:I:130:VAL:HG22	1:I:131:GLY:H	1.72	0.53
1:I:174:LEU:HG	1:I:216:LEU:N	2.24	0.53
1:J:578:ARG:O	1:J:582:LYS:N	2.32	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:130:VAL:HG22	1:K:131:GLY:H	1.73	0.53
1:K:221:PRO:HG2	1:K:224:ALA:H	1.73	0.53
1:L:589:ARG:HG3	1:L:611:VAL:HG22	1.91	0.53
1:O:109:LEU:HG	1:O:112:VAL:O	2.09	0.53
1:A:288:VAL:HG13	1:A:303:ALA:HB2	1.91	0.53
1:C:130:VAL:HG22	1:C:131:GLY:H	1.73	0.53
1:C:259:VAL:HG21	1:C:292:ALA:HB2	1.90	0.53
1:E:259:VAL:HG21	1:E:292:ALA:HB2	1.90	0.53
1:F:288:VAL:HG13	1:F:303:ALA:HB2	1.91	0.53
1:G:174:LEU:HG	1:G:216:LEU:N	2.24	0.53
1:G:288:VAL:HG13	1:G:303:ALA:HB2	1.91	0.53
1:H:304:ASP:OD1	1:H:305:GLN:N	2.42	0.53
1:H:589:ARG:HG3	1:H:611:VAL:HG22	1.91	0.53
1:I:134:VAL:HG22	1:I:144:LEU:HD22	1.90	0.53
1:I:288:VAL:HG13	1:I:303:ALA:HB2	1.91	0.53
1:K:216:LEU:HD23	1:K:232:LEU:HD11	1.90	0.53
1:L:157:VAL:HG22	1:L:160:ARG:HH21	1.74	0.53
1:L:216:LEU:HD23	1:L:232:LEU:HD11	1.90	0.53
1:L:221:PRO:HG2	1:L:224:ALA:H	1.73	0.53
1:L:473:GLN:HB3	1:L:481:LEU:HB3	1.90	0.53
1:M:221:PRO:HG2	1:M:224:ALA:H	1.73	0.53
1:O:216:LEU:HD23	1:O:232:LEU:HD11	1.90	0.53
1:B:157:VAL:HG22	1:B:160:ARG:HH21	1.74	0.53
1:B:288:VAL:HG13	1:B:303:ALA:HB2	1.91	0.53
1:F:589:ARG:HG3	1:F:611:VAL:HG22	1.91	0.53
1:J:160:ARG:O	1:J:164:ILE:HG12	2.09	0.53
1:J:174:LEU:HG	1:J:216:LEU:N	2.24	0.53
1:K:589:ARG:HG3	1:K:611:VAL:HG22	1.91	0.53
1:L:109:LEU:HG	1:L:112:VAL:O	2.09	0.53
1:L:130:VAL:HG22	1:L:131:GLY:H	1.73	0.53
1:M:301:ILE:HG22	1:M:308:GLN:HE22	1.74	0.53
1:N:216:LEU:HD23	1:N:232:LEU:HD11	1.90	0.53
1:A:160:ARG:HG2	1:A:164:ILE:HD13	1.91	0.52
1:B:304:ASP:OD1	1:B:305:GLN:N	2.42	0.52
1:C:109:LEU:HG	1:C:112:VAL:O	2.09	0.52
1:C:160:ARG:HG2	1:C:164:ILE:HD13	1.91	0.52
1:C:288:VAL:HG13	1:C:303:ALA:HB2	1.91	0.52
1:G:134:VAL:HG22	1:G:144:LEU:HD22	1.90	0.52
1:H:301:ILE:HG22	1:H:308:GLN:HE22	1.74	0.52
1:I:157:VAL:HG22	1:I:160:ARG:HH21	1.74	0.52
1:I:473:GLN:HB3	1:I:481:LEU:HB3	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:109:LEU:HG	1:J:112:VAL:O	2.09	0.52
1:J:288:VAL:HG13	1:J:303:ALA:HB2	1.91	0.52
1:K:160:ARG:O	1:K:164:ILE:HG12	2.09	0.52
1:L:174:LEU:HG	1:L:216:LEU:N	2.24	0.52
1:L:242:GLU:HG2	1:L:243:GLY:H	1.60	0.52
1:M:216:LEU:HD23	1:M:232:LEU:HD11	1.90	0.52
1:O:301:ILE:HG22	1:O:308:GLN:HE22	1.74	0.52
1:B:174:LEU:HG	1:B:216:LEU:N	2.24	0.52
1:D:157:VAL:HG22	1:D:160:ARG:HH21	1.74	0.52
1:E:288:VAL:HG13	1:E:303:ALA:HB2	1.91	0.52
1:F:174:LEU:HG	1:F:216:LEU:N	2.24	0.52
1:H:288:VAL:HG13	1:H:303:ALA:HB2	1.91	0.52
1:I:109:LEU:HG	1:I:112:VAL:O	2.09	0.52
1:I:160:ARG:O	1:I:164:ILE:HG12	2.09	0.52
1:L:160:ARG:O	1:L:164:ILE:HG12	2.09	0.52
1:L:259:VAL:HG21	1:L:292:ALA:HB2	1.90	0.52
1:N:160:ARG:HG2	1:N:164:ILE:HD13	1.91	0.52
1:O:134:VAL:HG22	1:O:144:LEU:HD22	1.90	0.52
1:O:288:VAL:HG13	1:O:303:ALA:HB2	1.91	0.52
1:A:258:LEU:CD2	1:A:318:LEU:HD23	2.36	0.52
1:B:221:PRO:HG2	1:B:224:ALA:H	1.73	0.52
1:E:134:VAL:HG22	1:E:144:LEU:HD22	1.90	0.52
1:E:174:LEU:HG	1:E:216:LEU:N	2.24	0.52
1:F:109:LEU:HG	1:F:112:VAL:O	2.09	0.52
1:K:174:LEU:HG	1:K:216:LEU:N	2.24	0.52
1:M:160:ARG:O	1:M:164:ILE:HG12	2.09	0.52
1:A:259:VAL:HG21	1:A:292:ALA:HB2	1.90	0.52
1:B:109:LEU:HG	1:B:112:VAL:O	2.09	0.52
1:B:301:ILE:HG22	1:B:308:GLN:HE22	1.74	0.52
1:D:160:ARG:HG2	1:D:164:ILE:HD13	1.91	0.52
1:E:160:ARG:HG2	1:E:164:ILE:HD13	1.92	0.52
1:F:301:ILE:HG22	1:F:308:GLN:HE22	1.74	0.52
1:G:109:LEU:HG	1:G:112:VAL:O	2.09	0.52
1:G:160:ARG:HG2	1:G:164:ILE:HD13	1.91	0.52
1:G:258:LEU:CD2	1:G:318:LEU:HD23	2.36	0.52
1:I:304:ASP:OD1	1:I:305:GLN:N	2.42	0.52
1:K:134:VAL:HG22	1:K:144:LEU:HD22	1.90	0.52
1:K:288:VAL:HG13	1:K:303:ALA:HB2	1.91	0.52
1:M:109:LEU:HG	1:M:112:VAL:O	2.09	0.52
1:M:589:ARG:HG3	1:M:611:VAL:HG22	1.91	0.52
1:O:259:VAL:HG21	1:O:292:ALA:HB2	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:578:ARG:O	1:B:582:LYS:N	2.32	0.52
1:D:301:ILE:HG22	1:D:308:GLN:HE22	1.74	0.52
1:H:160:ARG:O	1:H:164:ILE:HG12	2.09	0.52
1:J:259:VAL:HG21	1:J:292:ALA:HB2	1.90	0.52
1:K:301:ILE:HG22	1:K:308:GLN:HE22	1.74	0.52
1:M:134:VAL:HG22	1:M:144:LEU:HD22	1.90	0.52
1:N:288:VAL:HG13	1:N:303:ALA:HB2	1.91	0.52
1:A:157:VAL:HG22	1:A:160:ARG:HH21	1.74	0.52
1:E:301:ILE:HG22	1:E:308:GLN:HE22	1.74	0.52
1:F:160:ARG:HG2	1:F:164:ILE:HD13	1.91	0.52
1:G:477:GLY:O	1:G:572:ARG:NH2	2.43	0.52
1:H:259:VAL:HG21	1:H:292:ALA:HB2	1.90	0.52
1:L:477:GLY:O	1:L:572:ARG:NH2	2.43	0.52
1:M:304:ASP:OD1	1:M:305:GLN:N	2.42	0.52
1:O:174:LEU:HG	1:O:216:LEU:N	2.24	0.52
1:B:160:ARG:HG2	1:B:164:ILE:HD13	1.91	0.52
1:B:259:VAL:HG21	1:B:292:ALA:HB2	1.90	0.52
1:C:157:VAL:HG22	1:C:160:ARG:HH21	1.74	0.52
1:J:130:VAL:HG22	1:J:131:GLY:H	1.72	0.52
1:J:301:ILE:HG22	1:J:308:GLN:HE22	1.75	0.52
1:J:473:GLN:HB3	1:J:481:LEU:HB3	1.90	0.52
1:L:288:VAL:HG13	1:L:303:ALA:HB2	1.91	0.52
1:N:109:LEU:HG	1:N:112:VAL:O	2.09	0.52
1:A:109:LEU:HG	1:A:112:VAL:O	2.09	0.52
1:A:301:ILE:HG22	1:A:308:GLN:HE22	1.74	0.52
1:B:589:ARG:HG3	1:B:611:VAL:HG22	1.91	0.52
1:E:109:LEU:HG	1:E:112:VAL:O	2.09	0.52
1:F:259:VAL:HG21	1:F:292:ALA:HB2	1.90	0.52
1:I:160:ARG:HG2	1:I:164:ILE:HD13	1.91	0.52
1:I:259:VAL:HG21	1:I:292:ALA:HB2	1.90	0.52
1:K:473:GLN:HB3	1:K:481:LEU:HB3	1.90	0.52
1:M:288:VAL:HG13	1:M:303:ALA:HB2	1.91	0.52
1:N:160:ARG:O	1:N:164:ILE:HG12	2.09	0.52
1:O:160:ARG:HG2	1:O:164:ILE:HD13	1.91	0.52
1:C:589:ARG:HG3	1:C:611:VAL:HG22	1.91	0.52
1:F:157:VAL:HG22	1:F:160:ARG:HH21	1.74	0.52
1:G:259:VAL:HG21	1:G:292:ALA:HB2	1.90	0.52
1:M:160:ARG:HG2	1:M:164:ILE:HD13	1.91	0.52
1:M:174:LEU:HG	1:M:216:LEU:N	2.24	0.52
1:O:589:ARG:HG3	1:O:611:VAL:HG22	1.91	0.52
1:A:242:GLU:HG2	1:A:243:GLY:H	1.60	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:589:ARG:HG3	1:E:611:VAL:HG22	1.91	0.52
1:I:301:ILE:HG22	1:I:308:GLN:HE22	1.74	0.52
1:K:135:HIS:CE1	1:L:120:LEU:HD12	2.45	0.52
1:K:160:ARG:HG2	1:K:164:ILE:HD13	1.91	0.52
1:K:477:GLY:O	1:K:572:ARG:NH2	2.43	0.52
1:L:135:HIS:CE1	1:M:120:LEU:HD12	2.45	0.52
1:C:301:ILE:HG22	1:C:308:GLN:HE22	1.74	0.51
1:C:135:HIS:CE1	1:D:120:LEU:HD12	2.45	0.51
1:D:174:LEU:HG	1:D:216:LEU:N	2.24	0.51
1:D:135:HIS:CE1	1:E:120:LEU:HD12	2.45	0.51
1:F:477:GLY:O	1:F:572:ARG:NH2	2.43	0.51
1:G:160:ARG:O	1:G:164:ILE:HG12	2.10	0.51
1:H:109:LEU:HG	1:H:112:VAL:O	2.09	0.51
1:I:135:HIS:CE1	1:J:120:LEU:HD12	2.45	0.51
1:J:135:HIS:CE1	1:K:120:LEU:HD12	2.45	0.51
1:J:157:VAL:HG22	1:J:160:ARG:HH21	1.74	0.51
1:K:157:VAL:HG22	1:K:160:ARG:HH21	1.74	0.51
1:L:301:ILE:HG22	1:L:308:GLN:HE22	1.74	0.51
1:M:135:HIS:CE1	1:N:120:LEU:HD12	2.45	0.51
1:N:157:VAL:HG22	1:N:160:ARG:HH21	1.74	0.51
1:O:242:GLU:HG2	1:O:243:GLY:H	1.60	0.51
1:D:109:LEU:HG	1:D:112:VAL:O	2.09	0.51
1:D:589:ARG:HG3	1:D:611:VAL:HG22	1.91	0.51
1:F:104:THR:OG1	1:F:144:LEU:O	2.21	0.51
1:N:589:ARG:HG3	1:N:611:VAL:HG22	1.91	0.51
1:B:160:ARG:O	1:B:164:ILE:HG12	2.09	0.51
1:F:160:ARG:O	1:F:164:ILE:HG12	2.09	0.51
1:G:301:ILE:HG22	1:G:308:GLN:HE22	1.74	0.51
1:H:135:HIS:CE1	1:I:120:LEU:HD12	2.45	0.51
1:J:262:LEU:CD1	1:J:299:LEU:HD21	2.40	0.51
1:K:109:LEU:HG	1:K:112:VAL:O	2.09	0.51
1:L:160:ARG:HG2	1:L:164:ILE:HD13	1.91	0.51
1:A:180:GLU:O	1:A:183:ALA:HB3	2.11	0.51
1:B:135:HIS:CE1	1:C:120:LEU:HD12	2.45	0.51
1:E:135:HIS:CE1	1:F:120:LEU:HD12	2.45	0.51
1:F:180:GLU:O	1:F:183:ALA:HB3	2.11	0.51
1:G:180:GLU:O	1:G:183:ALA:HB3	2.11	0.51
1:A:589:ARG:HG3	1:A:611:VAL:HG22	1.91	0.51
1:L:117:LEU:HB3	1:L:121:LEU:HG	1.92	0.51
1:N:135:HIS:CE1	1:O:120:LEU:HD12	2.45	0.51
1:A:135:HIS:CE1	1:B:120:LEU:HD12	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:180:GLU:O	1:B:183:ALA:HB3	2.11	0.51
1:D:171:ILE:HG22	1:D:217:ILE:HG23	1.93	0.51
1:D:242:GLU:HG2	1:D:243:GLY:H	1.60	0.51
1:E:157:VAL:HG22	1:E:160:ARG:HH21	1.74	0.51
1:H:180:GLU:O	1:H:183:ALA:HB3	2.11	0.51
1:K:117:LEU:HB3	1:K:121:LEU:HG	1.92	0.51
1:M:117:LEU:HB3	1:M:121:LEU:HG	1.92	0.51
1:N:301:ILE:HG22	1:N:308:GLN:HE22	1.74	0.51
1:C:117:LEU:HB3	1:C:121:LEU:HG	1.92	0.51
1:C:160:ARG:O	1:C:164:ILE:HG12	2.10	0.51
1:C:171:ILE:HG22	1:C:217:ILE:HG23	1.93	0.51
1:H:262:LEU:CD1	1:H:299:LEU:HD21	2.40	0.51
1:L:335:GLN:HE21	1:L:560:ARG:HE	1.59	0.51
1:O:160:ARG:O	1:O:164:ILE:HG12	2.10	0.51
1:O:180:GLU:O	1:O:183:ALA:HB3	2.11	0.51
1:B:171:ILE:HG22	1:B:217:ILE:HG23	1.93	0.51
1:B:262:LEU:CD1	1:B:299:LEU:HD21	2.40	0.51
1:D:117:LEU:HB3	1:D:121:LEU:HG	1.92	0.51
1:E:171:ILE:HG22	1:E:217:ILE:HG23	1.93	0.51
1:E:180:GLU:O	1:E:183:ALA:HB3	2.11	0.51
1:F:135:HIS:CE1	1:G:120:LEU:HD12	2.45	0.51
1:H:160:ARG:HG2	1:H:164:ILE:HD13	1.91	0.51
1:J:117:LEU:HB3	1:J:121:LEU:HG	1.92	0.51
1:J:335:GLN:HE21	1:J:560:ARG:HE	1.59	0.51
1:K:335:GLN:HE21	1:K:560:ARG:HE	1.59	0.51
1:N:262:LEU:CD1	1:N:299:LEU:HD21	2.40	0.51
1:A:477:GLY:O	1:A:572:ARG:NH2	2.43	0.51
1:B:117:LEU:HB3	1:B:121:LEU:HG	1.92	0.51
1:B:258:LEU:CD2	1:B:318:LEU:HD23	2.36	0.51
1:G:135:HIS:CE1	1:H:120:LEU:HD12	2.45	0.51
1:I:180:GLU:O	1:I:183:ALA:HB3	2.11	0.51
1:M:335:GLN:HE21	1:M:560:ARG:HE	1.59	0.51
1:N:117:LEU:HB3	1:N:121:LEU:HG	1.92	0.51
1:D:180:GLU:O	1:D:183:ALA:HB3	2.11	0.51
1:E:160:ARG:O	1:E:164:ILE:HG12	2.09	0.51
1:H:157:VAL:HG22	1:H:160:ARG:HH21	1.74	0.51
1:J:180:GLU:O	1:J:183:ALA:HB3	2.11	0.51
1:J:477:GLY:O	1:J:572:ARG:NH2	2.43	0.51
1:N:335:GLN:HE21	1:N:560:ARG:HE	1.59	0.50
1:B:335:GLN:HE21	1:B:560:ARG:HE	1.59	0.50
1:E:262:LEU:CD1	1:E:299:LEU:HD21	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:477:GLY:O	1:E:572:ARG:NH2	2.43	0.50
1:I:335:GLN:HE21	1:I:560:ARG:HE	1.59	0.50
1:K:180:GLU:O	1:K:183:ALA:HB3	2.11	0.50
1:A:120:LEU:HD12	1:O:135:HIS:CE1	2.45	0.50
1:A:335:GLN:HE21	1:A:560:ARG:HE	1.59	0.50
1:M:578:ARG:O	1:M:582:LYS:N	2.32	0.50
1:N:180:GLU:O	1:N:183:ALA:HB3	2.11	0.50
1:O:335:GLN:HE21	1:O:560:ARG:HE	1.59	0.50
1:A:160:ARG:O	1:A:164:ILE:HG12	2.09	0.50
1:A:171:ILE:HG22	1:A:217:ILE:HG23	1.93	0.50
1:C:180:GLU:O	1:C:183:ALA:HB3	2.11	0.50
1:F:171:ILE:HG22	1:F:217:ILE:HG23	1.93	0.50
1:F:242:GLU:HG2	1:F:243:GLY:H	1.60	0.50
1:G:335:GLN:HE21	1:G:560:ARG:HE	1.59	0.50
1:H:335:GLN:HE21	1:H:560:ARG:HE	1.59	0.50
1:I:117:LEU:HB3	1:I:121:LEU:HG	1.92	0.50
1:O:117:LEU:HB3	1:O:121:LEU:HG	1.92	0.50
1:B:322:ARG:HG3	1:B:428:LEU:HD22	1.94	0.50
1:C:335:GLN:HE21	1:C:560:ARG:HE	1.59	0.50
1:E:322:ARG:HG3	1:E:428:LEU:HD22	1.94	0.50
1:G:288:VAL:HG22	1:G:303:ALA:HB1	1.94	0.50
1:J:160:ARG:HG2	1:J:164:ILE:HD13	1.91	0.50
1:L:180:GLU:O	1:L:183:ALA:HB3	2.11	0.50
1:E:117:LEU:HB3	1:E:121:LEU:HG	1.92	0.50
1:F:262:LEU:CD1	1:F:299:LEU:HD21	2.40	0.50
1:F:288:VAL:HG22	1:F:303:ALA:HB1	1.94	0.50
1:A:262:LEU:CD1	1:A:299:LEU:HD21	2.40	0.50
1:D:160:ARG:O	1:D:164:ILE:HG12	2.10	0.50
1:E:288:VAL:HG22	1:E:303:ALA:HB1	1.94	0.50
1:F:335:GLN:HE21	1:F:560:ARG:HE	1.59	0.50
1:H:322:ARG:HG3	1:H:428:LEU:HD22	1.94	0.50
1:K:262:LEU:CD1	1:K:299:LEU:HD21	2.40	0.50
1:N:322:ARG:HG3	1:N:428:LEU:HD22	1.94	0.50
1:A:117:LEU:HB3	1:A:121:LEU:HG	1.92	0.50
1:A:218:ILE:HD13	1:A:228:ILE:HD13	1.94	0.50
1:B:218:ILE:HD13	1:B:228:ILE:HD13	1.94	0.50
1:G:117:LEU:HB3	1:G:121:LEU:HG	1.92	0.50
1:G:104:THR:OG1	1:G:144:LEU:O	2.21	0.50
1:H:117:LEU:HB3	1:H:121:LEU:HG	1.92	0.50
1:H:288:VAL:HG22	1:H:303:ALA:HB1	1.94	0.50
1:N:218:ILE:HD13	1:N:228:ILE:HD13	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:477:GLY:O	1:O:572:ARG:NH2	2.43	0.50
1:E:335:GLN:HE21	1:E:560:ARG:HE	1.59	0.50
1:M:180:GLU:O	1:M:183:ALA:HB3	2.11	0.50
1:M:262:LEU:CD1	1:M:299:LEU:HD21	2.40	0.50
1:O:218:ILE:HD13	1:O:228:ILE:HD13	1.94	0.50
1:C:218:ILE:HD13	1:C:228:ILE:HD13	1.94	0.49
1:I:477:GLY:O	1:I:572:ARG:NH2	2.43	0.49
1:M:157:VAL:HG22	1:M:160:ARG:HH21	1.74	0.49
1:D:218:ILE:HD13	1:D:228:ILE:HD13	1.94	0.49
1:D:288:VAL:HG22	1:D:303:ALA:HB1	1.94	0.49
1:F:322:ARG:HG3	1:F:428:LEU:HD22	1.94	0.49
1:I:262:LEU:CD1	1:I:299:LEU:HD21	2.40	0.49
1:M:218:ILE:HD13	1:M:228:ILE:HD13	1.94	0.49
1:O:322:ARG:HG3	1:O:428:LEU:HD22	1.94	0.49
1:A:322:ARG:HG3	1:A:428:LEU:HD22	1.94	0.49
1:D:477:GLY:O	1:D:572:ARG:NH2	2.43	0.49
1:G:250:LEU:HD13	1:G:258:LEU:HD12	1.95	0.49
1:G:322:ARG:HG3	1:G:428:LEU:HD22	1.94	0.49
1:L:444:LEU:HB2	1:M:499:LEU:HD21	1.94	0.49
1:N:242:GLU:HG2	1:N:243:GLY:H	1.60	0.49
1:M:444:LEU:HB2	1:N:499:LEU:HD21	1.94	0.49
1:C:322:ARG:HG3	1:C:428:LEU:HD22	1.94	0.49
1:G:171:ILE:HG22	1:G:217:ILE:HG23	1.93	0.49
1:J:322:ARG:HG3	1:J:428:LEU:HD22	1.94	0.49
1:K:171:ILE:HG22	1:K:217:ILE:HG23	1.93	0.49
1:K:218:ILE:HD13	1:K:228:ILE:HD13	1.94	0.49
1:L:171:ILE:HG22	1:L:217:ILE:HG23	1.93	0.49
1:L:322:ARG:HG3	1:L:428:LEU:HD22	1.94	0.49
1:N:250:LEU:HD13	1:N:258:LEU:HD12	1.95	0.49
1:O:171:ILE:HG22	1:O:217:ILE:HG23	1.93	0.49
1:C:262:LEU:CD1	1:C:299:LEU:HD21	2.41	0.49
1:D:322:ARG:HG3	1:D:428:LEU:HD22	1.94	0.49
1:D:335:GLN:HE21	1:D:560:ARG:HE	1.59	0.49
1:F:117:LEU:HB3	1:F:121:LEU:HG	1.92	0.49
1:L:218:ILE:HD13	1:L:228:ILE:HD13	1.94	0.49
1:O:250:LEU:HD13	1:O:258:LEU:HD12	1.95	0.49
1:A:499:LEU:HD21	1:O:444:LEU:HB2	1.94	0.49
1:C:477:GLY:O	1:C:572:ARG:NH2	2.43	0.49
1:F:250:LEU:HD13	1:F:258:LEU:HD12	1.95	0.49
1:H:250:LEU:HD13	1:H:258:LEU:HD12	1.95	0.49
1:I:171:ILE:HG22	1:I:217:ILE:HG23	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:171:ILE:HG22	1:J:217:ILE:HG23	1.93	0.49
1:M:171:ILE:HG22	1:M:217:ILE:HG23	1.93	0.49
1:O:262:LEU:CD1	1:O:299:LEU:HD21	2.40	0.49
1:E:444:LEU:HB2	1:F:499:LEU:HD21	1.94	0.49
1:F:206:LYS:HZ3	1:G:190:ILE:C	2.16	0.49
1:G:262:LEU:CD1	1:G:299:LEU:HD21	2.40	0.49
1:I:288:VAL:HG22	1:I:303:ALA:HB1	1.94	0.49
1:J:218:ILE:HD13	1:J:228:ILE:HD13	1.94	0.49
1:J:444:LEU:HB2	1:K:499:LEU:HD21	1.94	0.49
1:N:444:LEU:HB2	1:O:499:LEU:HD21	1.94	0.49
1:E:218:ILE:HD13	1:E:228:ILE:HD13	1.94	0.49
1:M:250:LEU:HD13	1:M:258:LEU:HD12	1.95	0.49
1:A:250:LEU:HD13	1:A:258:LEU:HD12	1.95	0.49
1:F:218:ILE:HD13	1:F:228:ILE:HD13	1.94	0.49
1:F:444:LEU:HB2	1:G:499:LEU:HD21	1.94	0.49
1:H:171:ILE:HG22	1:H:217:ILE:HG23	1.93	0.49
1:I:218:ILE:HD13	1:I:228:ILE:HD13	1.94	0.49
1:I:250:LEU:HD13	1:I:258:LEU:HD12	1.95	0.49
1:K:444:LEU:HB2	1:L:499:LEU:HD21	1.94	0.49
1:N:171:ILE:HG22	1:N:217:ILE:HG23	1.93	0.49
1:O:429:ASP:HA	1:O:472:PRO:HG2	1.95	0.49
1:B:491:VAL:HG22	1:B:503:PHE:HE1	1.78	0.49
1:C:288:VAL:HG22	1:C:303:ALA:HB1	1.94	0.49
1:D:444:LEU:HB2	1:E:499:LEU:HD21	1.94	0.49
1:D:491:VAL:HG22	1:D:503:PHE:HE1	1.78	0.49
1:G:218:ILE:HD13	1:G:228:ILE:HD13	1.94	0.49
1:G:607:GLU:OE2	1:I:557:ARG:HB2	2.13	0.49
1:H:218:ILE:HD13	1:H:228:ILE:HD13	1.94	0.49
1:K:491:VAL:HG22	1:K:503:PHE:HE1	1.78	0.49
1:L:607:GLU:OE2	1:N:557:ARG:HB2	2.13	0.49
1:A:288:VAL:HG22	1:A:303:ALA:HB1	1.94	0.48
1:A:429:ASP:HA	1:A:472:PRO:HG2	1.95	0.48
1:B:557:ARG:HB2	1:O:607:GLU:OE2	2.13	0.48
1:G:429:ASP:HA	1:G:472:PRO:HG2	1.95	0.48
1:H:607:GLU:OE2	1:J:557:ARG:HB2	2.13	0.48
1:I:444:LEU:HB2	1:J:499:LEU:HD21	1.94	0.48
1:I:491:VAL:HG22	1:I:503:PHE:HE1	1.78	0.48
1:K:429:ASP:HA	1:K:472:PRO:HG2	1.95	0.48
1:I:607:GLU:OE2	1:K:557:ARG:HB2	2.13	0.48
1:L:288:VAL:HG22	1:L:303:ALA:HB1	1.94	0.48
1:M:288:VAL:HG22	1:M:303:ALA:HB1	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:477:GLY:O	1:N:572:ARG:NH2	2.43	0.48
1:O:288:VAL:HG22	1:O:303:ALA:HB1	1.94	0.48
1:D:104:THR:OG1	1:D:144:LEU:O	2.21	0.48
1:C:607:GLU:OE2	1:E:557:ARG:HB2	2.13	0.48
1:F:607:GLU:OE2	1:H:557:ARG:HB2	2.13	0.48
1:H:429:ASP:HA	1:H:472:PRO:HG2	1.95	0.48
1:J:607:GLU:OE2	1:L:557:ARG:HB2	2.13	0.48
1:L:429:ASP:HA	1:L:472:PRO:HG2	1.95	0.48
1:M:491:VAL:HG22	1:M:503:PHE:HE1	1.78	0.48
1:B:477:GLY:O	1:B:572:ARG:NH2	2.43	0.48
1:E:250:LEU:HD13	1:E:258:LEU:HD12	1.95	0.48
1:E:607:GLU:OE2	1:G:557:ARG:HB2	2.13	0.48
1:H:246:ARG:HH22	1:H:305:GLN:HE22	1.61	0.48
1:I:322:ARG:HG3	1:I:428:LEU:HD22	1.94	0.48
1:L:250:LEU:HD13	1:L:258:LEU:HD12	1.95	0.48
1:M:322:ARG:HG3	1:M:428:LEU:HD22	1.94	0.48
1:N:288:VAL:HG22	1:N:303:ALA:HB1	1.94	0.48
1:O:491:VAL:HG22	1:O:503:PHE:HE1	1.78	0.48
1:A:444:LEU:HB2	1:B:499:LEU:HD21	1.94	0.48
1:D:607:GLU:OE2	1:F:557:ARG:HB2	2.13	0.48
1:F:429:ASP:HA	1:F:472:PRO:HG2	1.95	0.48
1:K:288:VAL:HG22	1:K:303:ALA:HB1	1.94	0.48
1:K:607:GLU:OE2	1:M:557:ARG:HB2	2.13	0.48
1:A:607:GLU:OE2	1:C:557:ARG:HB2	2.13	0.48
1:E:136:TYR:CE1	1:E:142:LEU:HG	2.49	0.48
1:F:246:ARG:HH22	1:F:305:GLN:HE22	1.61	0.48
1:J:250:LEU:HD13	1:J:258:LEU:HD12	1.95	0.48
1:B:250:LEU:HD13	1:B:258:LEU:HD12	1.95	0.48
1:B:288:VAL:HG22	1:B:303:ALA:HB1	1.94	0.48
1:E:592:GLN:OE1	1:E:611:VAL:HG23	2.14	0.48
1:F:491:VAL:HG22	1:F:503:PHE:HE1	1.78	0.48
1:G:444:LEU:HB2	1:H:499:LEU:HD21	1.94	0.48
1:H:477:GLY:O	1:H:572:ARG:NH2	2.43	0.48
1:H:592:GLN:OE1	1:H:611:VAL:HG23	2.14	0.48
1:I:592:GLN:OE1	1:I:611:VAL:HG23	2.14	0.48
1:K:322:ARG:HG3	1:K:428:LEU:HD22	1.94	0.48
1:L:212:ARG:HH21	1:M:181:ASP:HB2	1.79	0.48
1:N:429:ASP:HA	1:N:472:PRO:HG2	1.95	0.48
1:B:136:TYR:CE1	1:B:142:LEU:HG	2.49	0.48
1:C:136:TYR:CE1	1:C:142:LEU:HG	2.49	0.48
1:D:592:GLN:OE1	1:D:611:VAL:HG23	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:429:ASP:HA	1:E:472:PRO:HG2	1.95	0.48
1:F:212:ARG:HH21	1:G:181:ASP:HB2	1.79	0.48
1:F:491:VAL:HG22	1:F:503:PHE:CE1	2.49	0.48
1:G:592:GLN:OE1	1:G:611:VAL:HG23	2.14	0.48
1:H:491:VAL:HG22	1:H:503:PHE:CE1	2.49	0.48
1:J:171:ILE:HB	1:J:217:ILE:HG13	1.96	0.48
1:K:171:ILE:HB	1:K:217:ILE:HG13	1.96	0.48
1:N:212:ARG:HH21	1:O:181:ASP:HB2	1.79	0.48
1:A:104:THR:OG1	1:A:144:LEU:O	2.21	0.48
1:B:429:ASP:HA	1:B:472:PRO:HG2	1.95	0.48
1:C:491:VAL:HG22	1:C:503:PHE:CE1	2.49	0.48
1:B:444:LEU:HB2	1:C:499:LEU:HD21	1.94	0.48
1:F:592:GLN:OE1	1:F:611:VAL:HG23	2.14	0.48
1:G:491:VAL:HG22	1:G:503:PHE:HE1	1.78	0.48
1:I:108:PRO:HA	1:I:141:VAL:HA	1.96	0.48
1:J:108:PRO:HA	1:J:141:VAL:HA	1.96	0.48
1:J:592:GLN:OE1	1:J:611:VAL:HG23	2.14	0.48
1:K:491:VAL:HG22	1:K:503:PHE:CE1	2.49	0.48
1:L:491:VAL:HG22	1:L:503:PHE:CE1	2.49	0.48
1:M:491:VAL:HG22	1:M:503:PHE:CE1	2.49	0.48
1:A:557:ARG:HB2	1:N:607:GLU:OE2	2.13	0.48
1:D:109:LEU:HD13	1:D:162:ASP:HA	1.96	0.48
1:H:136:TYR:CE1	1:H:142:LEU:HG	2.49	0.48
1:H:109:LEU:HD13	1:H:162:ASP:HA	1.96	0.48
1:I:120:LEU:O	1:I:123:GLN:HB3	2.14	0.48
1:I:429:ASP:HA	1:I:472:PRO:HG2	1.95	0.48
1:J:288:VAL:HG22	1:J:303:ALA:HB1	1.94	0.48
1:J:429:ASP:HA	1:J:472:PRO:HG2	1.95	0.48
1:K:136:TYR:CE1	1:K:142:LEU:HG	2.49	0.48
1:L:491:VAL:HG22	1:L:503:PHE:HE1	1.78	0.48
1:M:171:ILE:HB	1:M:217:ILE:HG13	1.96	0.48
1:M:607:GLU:OE2	1:O:557:ARG:HB2	2.13	0.48
1:N:120:LEU:O	1:N:123:GLN:HB3	2.14	0.48
1:N:171:ILE:HB	1:N:217:ILE:HG13	1.96	0.48
1:N:491:VAL:HG22	1:N:503:PHE:CE1	2.49	0.48
1:A:109:LEU:HD13	1:A:162:ASP:HA	1.96	0.48
1:A:212:ARG:HH21	1:B:181:ASP:HB2	1.79	0.48
1:A:491:VAL:HG22	1:A:503:PHE:CE1	2.49	0.48
1:C:109:LEU:HD13	1:C:162:ASP:HA	1.96	0.48
1:F:136:TYR:CE1	1:F:142:LEU:HG	2.49	0.48
1:G:120:LEU:O	1:G:123:GLN:HB3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:108:PRO:HA	1:H:141:VAL:HA	1.96	0.48
1:I:171:ILE:HB	1:I:217:ILE:HG13	1.96	0.48
1:J:212:ARG:HH21	1:K:181:ASP:HB2	1.79	0.48
1:J:246:ARG:HH22	1:J:305:GLN:HE22	1.61	0.48
1:K:250:LEU:HD13	1:K:258:LEU:HD12	1.95	0.48
1:L:171:ILE:HB	1:L:217:ILE:HG13	1.96	0.48
1:O:491:VAL:HG22	1:O:503:PHE:CE1	2.49	0.48
1:B:109:LEU:HD13	1:B:162:ASP:HA	1.96	0.47
1:C:212:ARG:HH21	1:D:181:ASP:HB2	1.79	0.47
1:C:444:LEU:HB2	1:D:499:LEU:HD21	1.94	0.47
1:D:212:ARG:HH21	1:E:181:ASP:HB2	1.79	0.47
1:D:250:LEU:HD13	1:D:258:LEU:HD12	1.95	0.47
1:E:491:VAL:HG22	1:E:503:PHE:CE1	2.49	0.47
1:F:108:PRO:HA	1:F:141:VAL:HA	1.96	0.47
1:G:109:LEU:HD13	1:G:162:ASP:HA	1.96	0.47
1:G:171:ILE:HB	1:G:217:ILE:HG13	1.96	0.47
1:H:171:ILE:HB	1:H:217:ILE:HG13	1.96	0.47
1:H:444:LEU:HB2	1:I:499:LEU:HD21	1.94	0.47
1:J:491:VAL:HG22	1:J:503:PHE:CE1	2.49	0.47
1:K:108:PRO:HA	1:K:141:VAL:HA	1.96	0.47
1:B:607:GLU:OE2	1:D:557:ARG:HB2	2.13	0.47
1:C:106:ILE:HG22	1:C:143:ILE:HA	1.96	0.47
1:D:429:ASP:HA	1:D:472:PRO:HG2	1.95	0.47
1:D:491:VAL:HG22	1:D:503:PHE:CE1	2.49	0.47
1:E:109:LEU:HD13	1:E:162:ASP:HA	1.96	0.47
1:G:136:TYR:CE1	1:G:142:LEU:HG	2.49	0.47
1:G:108:PRO:HA	1:G:141:VAL:HA	1.96	0.47
1:I:212:ARG:HH21	1:J:181:ASP:HB2	1.79	0.47
1:J:109:LEU:HD13	1:J:162:ASP:HA	1.96	0.47
1:K:109:LEU:HD13	1:K:162:ASP:HA	1.96	0.47
1:K:592:GLN:OE1	1:K:611:VAL:HG23	2.14	0.47
1:L:120:LEU:O	1:L:123:GLN:HB3	2.14	0.47
1:N:491:VAL:HG22	1:N:503:PHE:HE1	1.78	0.47
1:A:120:LEU:O	1:A:123:GLN:HB3	2.14	0.47
1:A:592:GLN:OE1	1:A:611:VAL:HG23	2.14	0.47
1:B:106:ILE:HG22	1:B:143:ILE:HA	1.96	0.47
1:C:246:ARG:HH22	1:C:305:GLN:HE22	1.61	0.47
1:D:108:PRO:HA	1:D:141:VAL:HA	1.96	0.47
1:D:120:LEU:O	1:D:123:GLN:HB3	2.14	0.47
1:E:108:PRO:HA	1:E:141:VAL:HA	1.96	0.47
1:F:120:LEU:O	1:F:123:GLN:HB3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:491:VAL:HG22	1:H:503:PHE:HE1	1.78	0.47
1:I:109:LEU:HD13	1:I:162:ASP:HA	1.96	0.47
1:K:120:LEU:O	1:K:123:GLN:HB3	2.14	0.47
1:L:136:TYR:CE1	1:L:142:LEU:HG	2.49	0.47
1:L:104:THR:OG1	1:L:144:LEU:O	2.21	0.47
1:L:262:LEU:CD1	1:L:299:LEU:HD21	2.40	0.47
1:M:429:ASP:HA	1:M:472:PRO:HG2	1.95	0.47
1:O:136:TYR:CE1	1:O:142:LEU:HG	2.49	0.47
1:O:171:ILE:HB	1:O:217:ILE:HG13	1.96	0.47
1:B:491:VAL:HG22	1:B:503:PHE:CE1	2.49	0.47
1:C:120:LEU:O	1:C:123:GLN:HB3	2.14	0.47
1:C:108:PRO:HA	1:C:141:VAL:HA	1.96	0.47
1:C:250:LEU:HD13	1:C:258:LEU:HD12	1.95	0.47
1:D:246:ARG:HH22	1:D:305:GLN:HE22	1.61	0.47
1:E:246:ARG:HH22	1:E:305:GLN:HE22	1.61	0.47
1:G:212:ARG:HH21	1:H:181:ASP:HB2	1.79	0.47
1:M:477:GLY:O	1:M:572:ARG:NH2	2.43	0.47
1:O:109:LEU:HD13	1:O:162:ASP:HA	1.96	0.47
1:A:106:ILE:HG22	1:A:143:ILE:HA	1.96	0.47
1:B:108:PRO:HA	1:B:141:VAL:HA	1.96	0.47
1:C:592:GLN:OE1	1:C:611:VAL:HG23	2.14	0.47
1:D:106:ILE:HG22	1:D:143:ILE:HA	1.97	0.47
1:D:136:TYR:CE1	1:D:142:LEU:HG	2.49	0.47
1:F:109:LEU:HD13	1:F:162:ASP:HA	1.96	0.47
1:F:171:ILE:HB	1:F:217:ILE:HG13	1.96	0.47
1:L:108:PRO:HA	1:L:141:VAL:HA	1.96	0.47
1:L:592:GLN:OE1	1:L:611:VAL:HG23	2.14	0.47
1:M:109:LEU:HD13	1:M:162:ASP:HA	1.96	0.47
1:N:109:LEU:HD13	1:N:162:ASP:HA	1.96	0.47
1:A:108:PRO:HA	1:A:141:VAL:HA	1.96	0.47
1:E:120:LEU:O	1:E:123:GLN:HB3	2.14	0.47
1:E:491:VAL:HG22	1:E:503:PHE:HE1	1.78	0.47
1:M:136:TYR:CE1	1:M:142:LEU:HG	2.49	0.47
1:O:108:PRO:HA	1:O:141:VAL:HA	1.96	0.47
1:A:171:ILE:HB	1:A:217:ILE:HG13	1.96	0.47
1:A:491:VAL:HG22	1:A:503:PHE:HE1	1.78	0.47
1:C:182:LEU:HA	1:C:185:ILE:HG12	1.97	0.47
1:C:429:ASP:HA	1:C:472:PRO:HG2	1.95	0.47
1:G:242:GLU:HG2	1:G:243:GLY:H	1.60	0.47
1:I:491:VAL:HG22	1:I:503:PHE:CE1	2.49	0.47
1:J:136:TYR:CE1	1:J:142:LEU:HG	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:108:PRO:HA	1:M:141:VAL:HA	1.96	0.47
1:M:592:GLN:OE1	1:M:611:VAL:HG23	2.14	0.47
1:N:108:PRO:HA	1:N:141:VAL:HA	1.96	0.47
1:N:136:TYR:CE1	1:N:142:LEU:HG	2.49	0.47
1:B:171:ILE:HB	1:B:217:ILE:HG13	1.96	0.47
1:B:592:GLN:OE1	1:B:611:VAL:HG23	2.14	0.47
1:D:182:LEU:HA	1:D:185:ILE:HG12	1.97	0.47
1:D:235:LEU:HD23	1:D:237:VAL:HG12	1.97	0.47
1:G:246:ARG:HH22	1:G:305:GLN:HE22	1.61	0.47
1:G:491:VAL:HG22	1:G:503:PHE:CE1	2.49	0.47
1:H:212:ARG:HH21	1:I:181:ASP:HB2	1.79	0.47
1:I:129:SER:HB3	1:I:147:ARG:HH22	1.80	0.47
1:O:106:ILE:HG22	1:O:143:ILE:HA	1.96	0.47
1:O:592:GLN:OE1	1:O:611:VAL:HG23	2.14	0.47
1:A:136:TYR:CE1	1:A:142:LEU:HG	2.49	0.47
1:C:491:VAL:HG22	1:C:503:PHE:HE1	1.78	0.47
1:D:171:ILE:HB	1:D:217:ILE:HG13	1.96	0.47
1:E:106:ILE:HG22	1:E:143:ILE:HA	1.97	0.47
1:E:171:ILE:HB	1:E:217:ILE:HG13	1.96	0.47
1:J:118:ALA:HB1	1:J:122:ARG:NH2	2.30	0.47
1:J:491:VAL:HG22	1:J:503:PHE:HE1	1.78	0.47
1:L:109:LEU:HD13	1:L:162:ASP:HA	1.96	0.47
1:M:246:ARG:HH22	1:M:305:GLN:HE22	1.61	0.47
1:N:118:ALA:HB1	1:N:122:ARG:NH2	2.30	0.47
1:N:246:ARG:HH22	1:N:305:GLN:HE22	1.61	0.47
1:A:182:LEU:HA	1:A:185:ILE:HG12	1.97	0.47
1:B:120:LEU:O	1:B:123:GLN:HB3	2.14	0.47
1:B:182:LEU:HA	1:B:185:ILE:HG12	1.97	0.47
1:C:235:LEU:HD23	1:C:237:VAL:HG12	1.97	0.47
1:E:212:ARG:HH21	1:F:181:ASP:HB2	1.79	0.47
1:E:235:LEU:HD23	1:E:237:VAL:HG12	1.97	0.47
1:H:235:LEU:HD23	1:H:237:VAL:HG12	1.97	0.47
1:I:136:TYR:CE1	1:I:142:LEU:HG	2.49	0.47
1:J:120:LEU:O	1:J:123:GLN:HB3	2.14	0.47
1:L:129:SER:HB3	1:L:147:ARG:HH22	1.80	0.47
1:K:212:ARG:HH21	1:L:181:ASP:HB2	1.79	0.47
1:M:118:ALA:HB1	1:M:122:ARG:NH2	2.30	0.47
1:M:120:LEU:O	1:M:123:GLN:HB3	2.14	0.47
1:M:129:SER:HB3	1:M:147:ARG:HH22	1.80	0.47
1:C:118:ALA:HB1	1:C:122:ARG:NH2	2.30	0.47
1:D:118:ALA:HB1	1:D:122:ARG:NH2	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:235:LEU:HD23	1:F:237:VAL:HG12	1.97	0.47
1:G:235:LEU:HD23	1:G:237:VAL:HG12	1.97	0.47
1:H:120:LEU:O	1:H:123:GLN:HB3	2.14	0.47
1:J:129:SER:HB3	1:J:147:ARG:HH22	1.80	0.47
1:K:118:ALA:HB1	1:K:122:ARG:NH2	2.30	0.47
1:N:592:GLN:OE1	1:N:611:VAL:HG23	2.14	0.47
1:O:182:LEU:HA	1:O:185:ILE:HG12	1.97	0.47
1:A:220:GLY:HA3	1:A:224:ALA:HB3	1.98	0.46
1:A:246:ARG:HH22	1:A:305:GLN:HE22	1.61	0.46
1:E:182:LEU:HA	1:E:185:ILE:HG12	1.97	0.46
1:F:106:ILE:HG22	1:F:143:ILE:HA	1.96	0.46
1:G:182:LEU:HA	1:G:185:ILE:HG12	1.97	0.46
1:I:224:ALA:HA	1:I:227:ARG:NE	2.30	0.46
1:J:106:ILE:HG22	1:J:143:ILE:HA	1.96	0.46
1:L:111:ASN:HB3	1:L:165:GLY:O	2.16	0.46
1:M:111:ASN:HB3	1:M:165:GLY:O	2.16	0.46
1:A:181:ASP:HB2	1:O:212:ARG:HH21	1.79	0.46
1:B:220:GLY:HA3	1:B:224:ALA:HB3	1.98	0.46
1:D:129:SER:HB3	1:D:147:ARG:HH22	1.80	0.46
1:E:111:ASN:HB3	1:E:165:GLY:O	2.16	0.46
1:E:118:ALA:HB1	1:E:122:ARG:NH2	2.30	0.46
1:F:182:LEU:HA	1:F:185:ILE:HG12	1.97	0.46
1:G:106:ILE:HG22	1:G:143:ILE:HA	1.96	0.46
1:G:224:ALA:HA	1:G:227:ARG:NE	2.31	0.46
1:I:242:GLU:HG2	1:I:243:GLY:H	1.60	0.46
1:K:106:ILE:HG22	1:K:143:ILE:HA	1.96	0.46
1:L:118:ALA:HB1	1:L:122:ARG:NH2	2.30	0.46
1:M:220:GLY:HA3	1:M:224:ALA:HB3	1.98	0.46
1:M:212:ARG:HH21	1:N:181:ASP:HB2	1.79	0.46
1:N:220:GLY:HA3	1:N:224:ALA:HB3	1.98	0.46
1:O:118:ALA:HB1	1:O:122:ARG:NH2	2.30	0.46
1:A:111:ASN:HB3	1:A:165:GLY:O	2.16	0.46
1:A:235:LEU:HD23	1:A:237:VAL:HG12	1.97	0.46
1:B:111:ASN:HB3	1:B:165:GLY:O	2.16	0.46
1:B:118:ALA:HB1	1:B:122:ARG:NH2	2.30	0.46
1:C:171:ILE:HB	1:C:217:ILE:HG13	1.96	0.46
1:D:133:VAL:HB	1:D:145:THR:HB	1.98	0.46
1:D:262:LEU:CD1	1:D:299:LEU:HD21	2.40	0.46
1:E:133:VAL:HB	1:E:145:THR:HB	1.98	0.46
1:F:129:SER:HB3	1:F:147:ARG:HH22	1.80	0.46
1:K:111:ASN:HB3	1:K:165:GLY:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:224:ALA:HA	1:K:227:ARG:NE	2.30	0.46
1:K:251:LYS:HB3	1:L:476:GLU:HB2	1.98	0.46
1:N:111:ASN:HB3	1:N:165:GLY:O	2.16	0.46
1:N:224:ALA:HA	1:N:227:ARG:NE	2.30	0.46
1:M:251:LYS:HB3	1:N:476:GLU:HB2	1.98	0.46
1:O:220:GLY:HA3	1:O:224:ALA:HB3	1.98	0.46
1:O:224:ALA:HA	1:O:227:ARG:NE	2.30	0.46
1:A:476:GLU:HB2	1:O:251:LYS:HB3	1.98	0.46
1:B:129:SER:HB3	1:B:147:ARG:HH22	1.80	0.46
1:B:235:LEU:HD23	1:B:237:VAL:HG12	1.97	0.46
1:B:246:ARG:HH22	1:B:305:GLN:HE22	1.61	0.46
1:C:220:GLY:HA3	1:C:224:ALA:HB3	1.98	0.46
1:I:118:ALA:HB1	1:I:122:ARG:NH2	2.30	0.46
1:I:235:LEU:HD23	1:I:237:VAL:HG12	1.97	0.46
1:J:111:ASN:HB3	1:J:165:GLY:O	2.16	0.46
1:I:251:LYS:HB3	1:J:476:GLU:HB2	1.98	0.46
1:K:246:ARG:HH22	1:K:305:GLN:HE22	1.61	0.46
1:N:106:ILE:HG22	1:N:143:ILE:HA	1.97	0.46
1:N:182:LEU:HA	1:N:185:ILE:HG12	1.97	0.46
1:A:224:ALA:HA	1:A:227:ARG:NE	2.30	0.46
1:C:133:VAL:HB	1:C:145:THR:HB	1.98	0.46
1:E:259:VAL:HG22	1:E:299:LEU:CD1	2.46	0.46
1:F:118:ALA:HB1	1:F:122:ARG:NH2	2.30	0.46
1:F:111:ASN:HB3	1:F:165:GLY:O	2.16	0.46
1:F:259:VAL:HG22	1:F:299:LEU:CD1	2.46	0.46
1:G:489:SER:HA	1:G:504:ASN:O	2.16	0.46
1:L:220:GLY:HA3	1:L:224:ALA:HB3	1.98	0.46
1:L:259:VAL:HG22	1:L:299:LEU:CD1	2.46	0.46
1:M:224:ALA:HA	1:M:227:ARG:NE	2.31	0.46
1:O:111:ASN:HB3	1:O:165:GLY:O	2.16	0.46
1:O:259:VAL:HG22	1:O:299:LEU:CD1	2.46	0.46
1:B:259:VAL:HG22	1:B:299:LEU:CD1	2.46	0.46
1:D:220:GLY:HA3	1:D:224:ALA:HB3	1.97	0.46
1:E:224:ALA:HA	1:E:227:ARG:NE	2.30	0.46
1:F:133:VAL:HB	1:F:145:THR:HB	1.98	0.46
1:F:489:SER:HA	1:F:504:ASN:O	2.16	0.46
1:H:106:ILE:HG22	1:H:143:ILE:HA	1.96	0.46
1:I:106:ILE:HG22	1:I:143:ILE:HA	1.97	0.46
1:I:111:ASN:HB3	1:I:165:GLY:O	2.16	0.46
1:I:259:VAL:HG22	1:I:299:LEU:CD1	2.46	0.46
1:L:106:ILE:HG22	1:L:143:ILE:HA	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:224:ALA:HA	1:L:227:ARG:NE	2.30	0.46
1:O:120:LEU:O	1:O:123:GLN:HB3	2.14	0.46
1:A:489:SER:HA	1:A:504:ASN:O	2.16	0.46
1:B:212:ARG:HH21	1:C:181:ASP:HB2	1.79	0.46
1:B:224:ALA:HA	1:B:227:ARG:NE	2.31	0.46
1:D:259:VAL:HG22	1:D:299:LEU:CD1	2.46	0.46
1:E:220:GLY:HA3	1:E:224:ALA:HB3	1.98	0.46
1:G:129:SER:HB3	1:G:147:ARG:HH22	1.80	0.46
1:G:111:ASN:HB3	1:G:165:GLY:O	2.16	0.46
1:H:111:ASN:HB3	1:H:165:GLY:O	2.16	0.46
1:I:220:GLY:HA3	1:I:224:ALA:HB3	1.98	0.46
1:K:220:GLY:HA3	1:K:224:ALA:HB3	1.98	0.46
1:O:235:LEU:HD23	1:O:237:VAL:HG12	1.97	0.46
1:A:129:SER:HB3	1:A:147:ARG:HH22	1.80	0.46
1:B:170:GLN:HG3	1:B:218:ILE:HG23	1.98	0.46
1:C:170:GLN:HG3	1:C:218:ILE:HG23	1.98	0.46
1:C:224:ALA:HA	1:C:227:ARG:NE	2.30	0.46
1:C:259:VAL:HG22	1:C:299:LEU:CD1	2.46	0.46
1:F:224:ALA:HA	1:F:227:ARG:NE	2.30	0.46
1:G:118:ALA:HB1	1:G:122:ARG:NH2	2.30	0.46
1:G:220:GLY:HA3	1:G:224:ALA:HB3	1.98	0.46
1:G:259:VAL:HG22	1:G:299:LEU:CD1	2.46	0.46
1:H:220:GLY:HA3	1:H:224:ALA:HB3	1.98	0.46
1:J:220:GLY:HA3	1:J:224:ALA:HB3	1.98	0.46
1:J:235:LEU:HD23	1:J:237:VAL:HG12	1.97	0.46
1:J:438:GLY:HA3	1:J:465:GLY:HA3	1.98	0.46
1:K:259:VAL:HG22	1:K:299:LEU:CD1	2.46	0.46
1:N:147:ARG:O	1:N:151:ILE:HG12	2.16	0.46
1:N:259:VAL:HG22	1:N:299:LEU:CD1	2.46	0.46
1:O:129:SER:HB3	1:O:147:ARG:HH22	1.80	0.46
1:O:489:SER:HA	1:O:504:ASN:O	2.16	0.46
1:D:170:GLN:HG3	1:D:218:ILE:HG23	1.98	0.46
1:F:220:GLY:HA3	1:F:224:ALA:HB3	1.98	0.46
1:G:133:VAL:HB	1:G:145:THR:HB	1.98	0.46
1:G:474:VAL:HG22	1:G:480:VAL:HG12	1.98	0.46
1:H:118:ALA:HB1	1:H:122:ARG:NH2	2.30	0.46
1:H:129:SER:HB3	1:H:147:ARG:HH22	1.80	0.46
1:H:182:LEU:HA	1:H:185:ILE:HG12	1.97	0.46
1:H:224:ALA:HA	1:H:227:ARG:NE	2.30	0.46
1:I:246:ARG:HH22	1:I:305:GLN:HE22	1.61	0.46
1:I:438:GLY:HA3	1:I:465:GLY:HA3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:224:ALA:HA	1:J:227:ARG:NE	2.30	0.46
1:K:129:SER:HB3	1:K:147:ARG:HH22	1.80	0.46
1:K:235:LEU:HD23	1:K:237:VAL:HG12	1.97	0.46
1:L:147:ARG:O	1:L:151:ILE:HG12	2.16	0.46
1:L:246:ARG:HH22	1:L:305:GLN:HE22	1.61	0.46
1:M:182:LEU:HA	1:M:185:ILE:HG12	1.97	0.46
1:A:118:ALA:HB1	1:A:122:ARG:NH2	2.30	0.46
1:B:133:VAL:HB	1:B:145:THR:HB	1.98	0.46
1:B:474:VAL:HG22	1:B:480:VAL:HG12	1.98	0.46
1:B:489:SER:HA	1:B:504:ASN:O	2.16	0.46
1:D:111:ASN:HB3	1:D:165:GLY:O	2.16	0.46
1:D:224:ALA:HA	1:D:227:ARG:NE	2.31	0.46
1:H:489:SER:HA	1:H:504:ASN:O	2.16	0.46
1:K:438:GLY:HA3	1:K:465:GLY:HA3	1.98	0.46
1:M:106:ILE:HG22	1:M:143:ILE:HA	1.96	0.46
1:N:474:VAL:HG22	1:N:480:VAL:HG12	1.98	0.46
1:O:474:VAL:HG22	1:O:480:VAL:HG12	1.98	0.46
1:A:170:GLN:HG3	1:A:218:ILE:HG23	1.98	0.45
1:B:251:LYS:HB3	1:C:476:GLU:HB2	1.98	0.45
1:C:111:ASN:HB3	1:C:165:GLY:O	2.16	0.45
1:D:474:VAL:HG22	1:D:480:VAL:HG12	1.98	0.45
1:E:170:GLN:HG3	1:E:218:ILE:HG23	1.98	0.45
1:E:489:SER:HA	1:E:504:ASN:O	2.16	0.45
1:G:251:LYS:HB3	1:H:476:GLU:HB2	1.98	0.45
1:H:259:VAL:HG22	1:H:299:LEU:CD1	2.46	0.45
1:H:474:VAL:HG22	1:H:480:VAL:HG12	1.98	0.45
1:I:182:LEU:HA	1:I:185:ILE:HG12	1.97	0.45
1:K:489:SER:HA	1:K:504:ASN:O	2.16	0.45
1:L:182:LEU:HA	1:L:185:ILE:HG12	1.97	0.45
1:N:129:SER:HB3	1:N:147:ARG:HH22	1.80	0.45
1:O:246:ARG:HH22	1:O:305:GLN:HE22	1.61	0.45
1:A:147:ARG:O	1:A:151:ILE:HG12	2.16	0.45
1:A:474:VAL:HG22	1:A:480:VAL:HG12	1.98	0.45
1:C:129:SER:HB3	1:C:147:ARG:HH22	1.80	0.45
1:C:438:GLY:HA3	1:C:465:GLY:HA3	1.98	0.45
1:D:438:GLY:HA3	1:D:465:GLY:HA3	1.98	0.45
1:E:474:VAL:HG22	1:E:480:VAL:HG12	1.98	0.45
1:F:474:VAL:HG22	1:F:480:VAL:HG12	1.98	0.45
1:G:222:GLU:O	1:G:225:ARG:HB2	2.17	0.45
1:H:133:VAL:HB	1:H:145:THR:HB	1.98	0.45
1:I:118:ALA:HB3	1:I:119:PRO:HD3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:475:ASN:HA	1:I:476:GLU:HA	1.78	0.45
1:J:118:ALA:HB3	1:J:119:PRO:HD3	1.98	0.45
1:J:182:LEU:HA	1:J:185:ILE:HG12	1.97	0.45
1:J:474:VAL:HG22	1:J:480:VAL:HG12	1.98	0.45
1:K:222:GLU:O	1:K:225:ARG:HB2	2.17	0.45
1:K:474:VAL:HG22	1:K:480:VAL:HG12	1.98	0.45
1:L:347:ALA:HA	1:L:353:ALA:HA	1.99	0.45
1:L:489:SER:HA	1:L:504:ASN:O	2.16	0.45
1:M:235:LEU:HD23	1:M:237:VAL:HG12	1.97	0.45
1:M:347:ALA:HA	1:M:353:ALA:HA	1.99	0.45
1:N:235:LEU:HD23	1:N:237:VAL:HG12	1.97	0.45
1:N:489:SER:HA	1:N:504:ASN:O	2.16	0.45
1:C:222:GLU:O	1:C:225:ARG:HB2	2.17	0.45
1:D:222:GLU:O	1:D:225:ARG:HB2	2.17	0.45
1:I:133:VAL:HB	1:I:145:THR:HB	1.98	0.45
1:J:347:ALA:HA	1:J:353:ALA:HA	1.99	0.45
1:K:182:LEU:HA	1:K:185:ILE:HG12	1.97	0.45
1:A:133:VAL:HB	1:A:145:THR:HB	1.98	0.45
1:B:161:VAL:HA	1:B:164:ILE:CG1	2.47	0.45
1:F:170:GLN:HG3	1:F:218:ILE:HG23	1.98	0.45
1:H:118:ALA:HB3	1:H:119:PRO:HD3	1.98	0.45
1:H:222:GLU:O	1:H:225:ARG:HB2	2.17	0.45
1:H:438:GLY:HA3	1:H:465:GLY:HA3	1.98	0.45
1:I:474:VAL:HG22	1:I:480:VAL:HG12	1.98	0.45
1:J:147:ARG:O	1:J:151:ILE:HG12	2.16	0.45
1:J:259:VAL:HG22	1:J:299:LEU:CD1	2.46	0.45
1:K:109:LEU:HD21	1:K:112:VAL:HB	1.99	0.45
1:M:474:VAL:HG22	1:M:480:VAL:HG12	1.98	0.45
1:B:222:GLU:O	1:B:225:ARG:HB2	2.17	0.45
1:C:474:VAL:HG22	1:C:480:VAL:HG12	1.98	0.45
1:D:489:SER:HA	1:D:504:ASN:O	2.16	0.45
1:D:529:PHE:HZ	1:D:531:LYS:HE3	1.82	0.45
1:E:222:GLU:O	1:E:225:ARG:HB2	2.17	0.45
1:E:438:GLY:HA3	1:E:465:GLY:HA3	1.98	0.45
1:I:489:SER:HA	1:I:504:ASN:O	2.16	0.45
1:K:347:ALA:HA	1:K:353:ALA:HA	1.99	0.45
1:L:133:VAL:HB	1:L:145:THR:HB	1.98	0.45
1:L:438:GLY:HA3	1:L:465:GLY:HA3	1.98	0.45
1:L:474:VAL:HG22	1:L:480:VAL:HG12	1.98	0.45
1:M:133:VAL:HB	1:M:145:THR:HB	1.98	0.45
1:N:161:VAL:HA	1:N:164:ILE:CG1	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:206:LYS:HZ3	1:O:190:ILE:C	2.20	0.45
1:O:347:ALA:HA	1:O:353:ALA:HA	1.99	0.45
1:A:161:VAL:HA	1:A:164:ILE:CG1	2.47	0.45
1:A:222:GLU:O	1:A:225:ARG:HB2	2.17	0.45
1:A:529:PHE:HZ	1:A:531:LYS:HE3	1.82	0.45
1:B:438:GLY:HA3	1:B:465:GLY:HA3	1.98	0.45
1:G:170:GLN:HG3	1:G:218:ILE:HG23	1.98	0.45
1:I:147:ARG:O	1:I:151:ILE:HG12	2.16	0.45
1:J:222:GLU:O	1:J:225:ARG:HB2	2.17	0.45
1:K:133:VAL:HB	1:K:145:THR:HB	1.98	0.45
1:L:222:GLU:O	1:L:225:ARG:HB2	2.17	0.45
1:L:235:LEU:HD23	1:L:237:VAL:HG12	1.97	0.45
1:M:220:GLY:HA3	1:M:224:ALA:CB	2.47	0.45
1:M:529:PHE:HZ	1:M:531:LYS:HE3	1.82	0.45
1:N:251:LYS:HB3	1:O:476:GLU:HB2	1.98	0.45
1:N:347:ALA:HA	1:N:353:ALA:HA	1.99	0.45
1:O:161:VAL:HA	1:O:164:ILE:CG1	2.47	0.45
1:O:170:GLN:HG3	1:O:218:ILE:HG23	1.98	0.45
1:B:529:PHE:HZ	1:B:531:LYS:HE3	1.82	0.45
1:D:147:ARG:O	1:D:151:ILE:HG12	2.16	0.45
1:D:220:GLY:HA3	1:D:224:ALA:CB	2.47	0.45
1:G:109:LEU:HD21	1:G:112:VAL:HB	1.99	0.45
1:H:109:LEU:HD21	1:H:112:VAL:HB	1.99	0.45
1:H:161:VAL:HA	1:H:164:ILE:CG1	2.46	0.45
1:H:220:GLY:HA3	1:H:224:ALA:CB	2.47	0.45
1:I:161:VAL:HA	1:I:164:ILE:CG1	2.46	0.45
1:J:133:VAL:HB	1:J:145:THR:HB	1.98	0.45
1:K:170:GLN:HG3	1:K:218:ILE:HG23	1.98	0.45
1:K:220:GLY:HA3	1:K:224:ALA:CB	2.47	0.45
1:K:529:PHE:HZ	1:K:531:LYS:HE3	1.82	0.45
1:L:220:GLY:HA3	1:L:224:ALA:CB	2.47	0.45
1:L:251:LYS:HB3	1:M:476:GLU:HB2	1.98	0.45
1:M:161:VAL:HA	1:M:164:ILE:CG1	2.47	0.45
1:N:109:LEU:HD11	1:N:112:VAL:HB	1.99	0.45
1:N:529:PHE:HZ	1:N:531:LYS:HE3	1.82	0.45
1:O:109:LEU:HD21	1:O:112:VAL:HB	1.99	0.45
1:A:438:GLY:HA3	1:A:465:GLY:HA3	1.98	0.45
1:B:346:TRP:O	1:B:346:TRP:CE3	2.70	0.45
1:C:489:SER:HA	1:C:504:ASN:O	2.16	0.45
1:D:251:LYS:HB3	1:E:476:GLU:HB2	1.98	0.45
1:F:222:GLU:O	1:F:225:ARG:HB2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:118:ALA:HB3	1:G:119:PRO:HD3	1.98	0.45
1:G:147:ARG:O	1:G:151:ILE:HG12	2.16	0.45
1:G:220:GLY:HA3	1:G:224:ALA:CB	2.47	0.45
1:I:220:GLY:HA3	1:I:224:ALA:CB	2.47	0.45
1:I:347:ALA:HA	1:I:353:ALA:HA	1.99	0.45
1:J:109:LEU:HD21	1:J:112:VAL:HB	1.99	0.45
1:J:170:GLN:HG3	1:J:218:ILE:HG23	1.98	0.45
1:J:220:GLY:HA3	1:J:224:ALA:CB	2.47	0.45
1:J:251:LYS:HB3	1:K:476:GLU:HB2	1.98	0.45
1:K:118:ALA:HB3	1:K:119:PRO:HD3	1.98	0.45
1:K:147:ARG:O	1:K:151:ILE:HG12	2.16	0.45
1:M:109:LEU:HD11	1:M:112:VAL:HB	1.99	0.45
1:M:259:VAL:HG22	1:M:299:LEU:CD1	2.46	0.45
1:N:109:LEU:HD21	1:N:112:VAL:HB	1.99	0.45
1:O:109:LEU:HD11	1:O:112:VAL:HB	1.99	0.45
1:A:259:VAL:HG22	1:A:299:LEU:CD1	2.46	0.45
1:A:347:ALA:HA	1:A:353:ALA:HA	1.99	0.45
1:E:147:ARG:O	1:E:151:ILE:HG12	2.16	0.45
1:F:438:GLY:HA3	1:F:465:GLY:HA3	1.98	0.45
1:F:529:PHE:HZ	1:F:531:LYS:HE3	1.82	0.45
1:H:346:TRP:O	1:H:346:TRP:CE3	2.70	0.45
1:I:346:TRP:CE3	1:I:346:TRP:O	2.70	0.45
1:J:489:SER:HA	1:J:504:ASN:O	2.16	0.45
1:J:529:PHE:HZ	1:J:531:LYS:HE3	1.82	0.45
1:L:109:LEU:HD11	1:L:112:VAL:HB	1.99	0.45
1:M:104:THR:OG1	1:M:144:LEU:O	2.21	0.45
1:O:222:GLU:O	1:O:225:ARG:HB2	2.17	0.45
1:A:118:ALA:HB3	1:A:119:PRO:HD3	1.98	0.45
1:C:346:TRP:O	1:C:346:TRP:CE3	2.70	0.45
1:E:129:SER:HB3	1:E:147:ARG:HH22	1.80	0.45
1:E:251:LYS:HB3	1:F:476:GLU:HB2	1.98	0.45
1:H:170:GLN:HG3	1:H:218:ILE:HG23	1.98	0.45
1:I:109:LEU:HD11	1:I:112:VAL:HB	1.99	0.45
1:L:109:LEU:HD21	1:L:112:VAL:HB	1.99	0.45
1:L:170:GLN:HG3	1:L:218:ILE:HG23	1.98	0.45
1:N:133:VAL:HB	1:N:145:THR:HB	1.98	0.45
1:N:220:GLY:HA3	1:N:224:ALA:CB	2.47	0.45
1:O:438:GLY:HA3	1:O:465:GLY:HA3	1.98	0.45
1:N:414:ASN:HB3	1:O:534:VAL:CG2	2.47	0.45
1:A:109:LEU:HD11	1:A:112:VAL:HB	1.99	0.44
1:B:147:ARG:O	1:B:151:ILE:HG12	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:151:ILE:HA	1:B:154:LEU:HB2	2.00	0.44
1:C:414:ASN:HB3	1:D:534:VAL:CG2	2.47	0.44
1:E:346:TRP:O	1:E:346:TRP:CE3	2.70	0.44
1:F:346:TRP:O	1:F:346:TRP:CE3	2.70	0.44
1:E:414:ASN:HB3	1:F:534:VAL:CG2	2.47	0.44
1:H:347:ALA:HA	1:H:353:ALA:HA	1.99	0.44
1:H:529:PHE:HZ	1:H:531:LYS:HE3	1.82	0.44
1:I:170:GLN:HG3	1:I:218:ILE:HG23	1.98	0.44
1:J:109:LEU:HD11	1:J:112:VAL:HB	1.99	0.44
1:K:109:LEU:HD11	1:K:112:VAL:HB	1.99	0.44
1:J:414:ASN:HB3	1:K:534:VAL:CG2	2.47	0.44
1:M:147:ARG:O	1:M:151:ILE:HG12	2.16	0.44
1:M:346:TRP:O	1:M:346:TRP:CE3	2.70	0.44
1:M:489:SER:HA	1:M:504:ASN:O	2.16	0.44
1:O:118:ALA:HB3	1:O:119:PRO:HD3	1.98	0.44
1:O:133:VAL:HB	1:O:145:THR:HB	1.98	0.44
1:A:109:LEU:HD21	1:A:112:VAL:HB	1.99	0.44
1:A:534:VAL:CG2	1:O:414:ASN:HB3	2.47	0.44
1:E:151:ILE:HA	1:E:154:LEU:HB2	2.00	0.44
1:E:220:GLY:HA3	1:E:224:ALA:CB	2.47	0.44
1:F:109:LEU:HD21	1:F:112:VAL:HB	1.99	0.44
1:F:251:LYS:HB3	1:G:476:GLU:HB2	1.98	0.44
1:H:109:LEU:HD11	1:H:112:VAL:HB	1.99	0.44
1:H:147:ARG:O	1:H:151:ILE:HG12	2.16	0.44
1:H:251:LYS:HB3	1:I:476:GLU:HB2	1.98	0.44
1:I:225:ARG:O	1:I:229:THR:HG23	2.18	0.44
1:J:161:VAL:HA	1:J:164:ILE:CG1	2.47	0.44
1:J:346:TRP:O	1:J:346:TRP:CE3	2.70	0.44
1:J:475:ASN:HA	1:J:476:GLU:HA	1.78	0.44
1:M:414:ASN:HB3	1:N:534:VAL:CG2	2.47	0.44
1:M:438:GLY:HA3	1:M:465:GLY:HA3	1.98	0.44
1:N:170:GLN:HG3	1:N:218:ILE:HG23	1.98	0.44
1:B:118:ALA:HB3	1:B:119:PRO:HD3	1.98	0.44
1:B:347:ALA:HA	1:B:353:ALA:HA	1.99	0.44
1:C:118:ALA:HB3	1:C:119:PRO:HD3	1.98	0.44
1:C:220:GLY:HA3	1:C:224:ALA:CB	2.47	0.44
1:D:151:ILE:HA	1:D:154:LEU:HB2	2.00	0.44
1:E:161:VAL:HA	1:E:164:ILE:CG1	2.46	0.44
1:F:220:GLY:HA3	1:F:224:ALA:CB	2.47	0.44
1:G:161:VAL:HA	1:G:164:ILE:CG1	2.46	0.44
1:G:346:TRP:CE3	1:G:346:TRP:O	2.70	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:347:ALA:HA	1:G:353:ALA:HA	1.99	0.44
1:J:225:ARG:O	1:J:229:THR:HG23	2.18	0.44
1:K:414:ASN:HB3	1:L:534:VAL:CG2	2.47	0.44
1:L:414:ASN:HB3	1:M:534:VAL:CG2	2.47	0.44
1:N:222:GLU:O	1:N:225:ARG:HB2	2.17	0.44
1:N:346:TRP:O	1:N:346:TRP:CE3	2.70	0.44
1:O:220:GLY:HA3	1:O:224:ALA:CB	2.47	0.44
1:A:220:GLY:HA3	1:A:224:ALA:CB	2.47	0.44
1:A:251:LYS:HB3	1:B:476:GLU:HB2	1.98	0.44
1:C:151:ILE:HA	1:C:154:LEU:HB2	2.00	0.44
1:D:118:ALA:HB3	1:D:119:PRO:HD3	1.98	0.44
1:D:161:VAL:HA	1:D:164:ILE:CG1	2.47	0.44
1:G:151:ILE:HA	1:G:154:LEU:HB2	2.00	0.44
1:G:324:GLN:HB2	1:G:571:ILE:HB	1.99	0.44
1:G:438:GLY:HA3	1:G:465:GLY:HA3	1.98	0.44
1:I:529:PHE:HZ	1:I:531:LYS:HE3	1.82	0.44
1:K:161:VAL:HA	1:K:164:ILE:CG1	2.47	0.44
1:N:118:ALA:HB3	1:N:119:PRO:HD3	1.98	0.44
1:O:151:ILE:HA	1:O:154:LEU:HB2	2.00	0.44
1:O:346:TRP:CE3	1:O:346:TRP:O	2.70	0.44
1:B:220:GLY:HA3	1:B:224:ALA:CB	2.47	0.44
1:C:347:ALA:HA	1:C:353:ALA:HA	1.99	0.44
1:E:225:ARG:O	1:E:229:THR:HG23	2.18	0.44
1:E:529:PHE:HZ	1:E:531:LYS:HE3	1.82	0.44
1:G:109:LEU:HD11	1:G:112:VAL:HB	1.99	0.44
1:H:324:GLN:HB2	1:H:571:ILE:HB	1.99	0.44
1:K:225:ARG:O	1:K:229:THR:HG23	2.18	0.44
1:L:118:ALA:HB3	1:L:119:PRO:HD3	1.98	0.44
1:L:346:TRP:CE3	1:L:346:TRP:O	2.70	0.44
1:N:438:GLY:HA3	1:N:465:GLY:HA3	1.98	0.44
1:N:324:GLN:HB2	1:N:571:ILE:HB	1.99	0.44
1:A:151:ILE:HA	1:A:154:LEU:HB2	2.00	0.44
1:B:109:LEU:HD11	1:B:112:VAL:HB	1.99	0.44
1:C:104:THR:OG1	1:C:144:LEU:O	2.21	0.44
1:C:147:ARG:O	1:C:151:ILE:HG12	2.16	0.44
1:C:251:LYS:HB3	1:D:476:GLU:HB2	1.98	0.44
1:F:147:ARG:O	1:F:151:ILE:HG12	2.16	0.44
1:F:225:ARG:O	1:F:229:THR:HG23	2.18	0.44
1:G:529:PHE:HZ	1:G:531:LYS:HE3	1.82	0.44
1:I:109:LEU:HD21	1:I:112:VAL:HB	1.99	0.44
1:K:335:GLN:HB2	1:K:417:ASN:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:170:GLN:HG3	1:M:218:ILE:HG23	1.98	0.44
1:M:324:GLN:HB2	1:M:571:ILE:HB	1.99	0.44
1:N:151:ILE:HA	1:N:154:LEU:HB2	2.00	0.44
1:O:147:ARG:O	1:O:151:ILE:HG12	2.16	0.44
1:A:346:TRP:CE3	1:A:346:TRP:O	2.70	0.44
1:A:414:ASN:HB3	1:B:534:VAL:CG2	2.47	0.44
1:D:221:PRO:O	1:D:225:ARG:HG3	2.18	0.44
1:D:225:ARG:O	1:D:229:THR:HG23	2.18	0.44
1:F:118:ALA:HB3	1:F:119:PRO:HD3	1.98	0.44
1:F:151:ILE:HA	1:F:154:LEU:HB2	2.00	0.44
1:F:324:GLN:HB2	1:F:571:ILE:HB	1.99	0.44
1:F:414:ASN:HB3	1:G:534:VAL:CG2	2.47	0.44
1:H:151:ILE:HA	1:H:154:LEU:HB2	2.00	0.44
1:H:225:ARG:O	1:H:229:THR:HG23	2.18	0.44
1:I:222:GLU:O	1:I:225:ARG:HB2	2.17	0.44
1:L:221:PRO:O	1:L:225:ARG:HG3	2.18	0.44
1:M:109:LEU:HD21	1:M:112:VAL:HB	1.99	0.44
1:M:222:GLU:O	1:M:225:ARG:HB2	2.17	0.44
1:N:259:VAL:HG22	1:N:299:LEU:HD11	2.00	0.44
1:O:225:ARG:O	1:O:229:THR:HG23	2.18	0.44
1:B:259:VAL:HG22	1:B:299:LEU:HD11	2.00	0.44
1:B:414:ASN:HB3	1:C:534:VAL:CG2	2.47	0.44
1:F:109:LEU:HD11	1:F:112:VAL:HB	1.99	0.44
1:F:347:ALA:HA	1:F:353:ALA:HA	1.99	0.44
1:H:210:ASP:OD1	1:H:212:ARG:N	2.51	0.44
1:I:324:GLN:HB2	1:I:571:ILE:HB	1.99	0.44
1:J:221:PRO:O	1:J:225:ARG:HG3	2.18	0.44
1:M:259:VAL:HG22	1:M:299:LEU:HD11	2.00	0.44
1:M:335:GLN:HB2	1:M:417:ASN:HB3	2.00	0.44
1:O:324:GLN:HB2	1:O:571:ILE:HB	1.99	0.44
1:A:225:ARG:O	1:A:229:THR:HG23	2.18	0.44
1:A:361:LEU:HD12	1:A:361:LEU:O	2.18	0.44
1:C:259:VAL:HG22	1:C:299:LEU:HD11	2.00	0.44
1:C:529:PHE:HZ	1:C:531:LYS:HE3	1.82	0.44
1:D:347:ALA:HA	1:D:353:ALA:HA	1.99	0.44
1:E:109:LEU:HD21	1:E:112:VAL:HB	1.99	0.44
1:E:118:ALA:HB3	1:E:119:PRO:HD3	1.98	0.44
1:E:206:LYS:O	1:E:218:ILE:HD12	2.18	0.44
1:G:414:ASN:HB3	1:H:534:VAL:CG2	2.47	0.44
1:I:361:LEU:HD12	1:I:361:LEU:O	2.18	0.44
1:K:210:ASP:OD1	1:K:212:ARG:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:259:VAL:HG22	1:K:299:LEU:HD11	2.00	0.44
1:K:346:TRP:O	1:K:346:TRP:CE3	2.70	0.44
1:L:225:ARG:O	1:L:229:THR:HG23	2.18	0.44
1:L:324:GLN:HB2	1:L:571:ILE:HB	1.99	0.44
1:L:335:GLN:HB2	1:L:417:ASN:HB3	2.00	0.44
1:M:118:ALA:HB3	1:M:119:PRO:HD3	1.98	0.44
1:N:221:PRO:O	1:N:225:ARG:HG3	2.18	0.44
1:O:259:VAL:HG22	1:O:299:LEU:HD11	2.00	0.44
1:A:210:ASP:OD1	1:A:212:ARG:N	2.51	0.43
1:B:109:LEU:HD21	1:B:112:VAL:HB	1.99	0.43
1:C:210:ASP:OD1	1:C:212:ARG:N	2.51	0.43
1:E:347:ALA:HA	1:E:353:ALA:HA	1.99	0.43
1:E:324:GLN:HB2	1:E:571:ILE:HB	1.99	0.43
1:F:221:PRO:O	1:F:225:ARG:HG3	2.18	0.43
1:H:414:ASN:HB3	1:I:534:VAL:CG2	2.47	0.43
1:H:475:ASN:HA	1:H:476:GLU:HA	1.78	0.43
1:I:335:GLN:HB2	1:I:417:ASN:HB3	2.00	0.43
1:J:259:VAL:HG22	1:J:299:LEU:HD11	2.00	0.43
1:J:335:GLN:HB2	1:J:417:ASN:HB3	2.00	0.43
1:K:361:LEU:O	1:K:361:LEU:HD12	2.18	0.43
1:L:161:VAL:HA	1:L:164:ILE:CG1	2.46	0.43
1:L:259:VAL:HG22	1:L:299:LEU:HD11	2.00	0.43
1:N:335:GLN:HB2	1:N:417:ASN:HB3	2.00	0.43
1:O:221:PRO:HD2	1:O:224:ALA:HB2	2.00	0.43
1:A:221:PRO:HD2	1:A:224:ALA:HB2	2.00	0.43
1:B:221:PRO:O	1:B:225:ARG:HG3	2.18	0.43
1:B:221:PRO:HD2	1:B:224:ALA:HB2	2.00	0.43
1:C:109:LEU:HD11	1:C:112:VAL:HB	1.99	0.43
1:C:225:ARG:O	1:C:229:THR:HG23	2.18	0.43
1:C:361:LEU:O	1:C:361:LEU:HD12	2.18	0.43
1:D:206:LYS:O	1:D:218:ILE:HD12	2.18	0.43
1:D:346:TRP:CE3	1:D:346:TRP:O	2.70	0.43
1:G:225:ARG:O	1:G:229:THR:HG23	2.18	0.43
1:I:221:PRO:O	1:I:225:ARG:HG3	2.18	0.43
1:J:324:GLN:HB2	1:J:571:ILE:HB	1.99	0.43
1:L:529:PHE:HZ	1:L:531:LYS:HE3	1.82	0.43
1:N:225:ARG:O	1:N:229:THR:HG23	2.18	0.43
1:O:221:PRO:O	1:O:225:ARG:HG3	2.18	0.43
1:A:259:VAL:HG22	1:A:299:LEU:HD11	2.00	0.43
1:C:221:PRO:HD2	1:C:224:ALA:HB2	2.00	0.43
1:D:106:ILE:O	1:D:106:ILE:HG13	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:361:LEU:HD12	1:G:361:LEU:O	2.18	0.43
1:H:335:GLN:HB2	1:H:417:ASN:HB3	2.00	0.43
1:I:210:ASP:OD1	1:I:212:ARG:N	2.51	0.43
1:I:206:LYS:O	1:I:218:ILE:HD12	2.18	0.43
1:L:151:ILE:HA	1:L:154:LEU:HB2	2.00	0.43
1:L:210:ASP:OD1	1:L:212:ARG:N	2.51	0.43
1:M:151:ILE:HA	1:M:154:LEU:HB2	2.00	0.43
1:N:106:ILE:O	1:N:106:ILE:HG13	2.19	0.43
1:N:361:LEU:HD12	1:N:361:LEU:O	2.18	0.43
1:O:106:ILE:HG13	1:O:106:ILE:O	2.19	0.43
1:O:529:PHE:HZ	1:O:531:LYS:HE3	1.82	0.43
1:A:106:ILE:HG13	1:A:106:ILE:O	2.19	0.43
1:D:109:LEU:HD11	1:D:112:VAL:HB	1.99	0.43
1:E:109:LEU:HD11	1:E:112:VAL:HB	1.99	0.43
1:D:414:ASN:HB3	1:E:534:VAL:CG2	2.47	0.43
1:F:161:VAL:HA	1:F:164:ILE:CG1	2.47	0.43
1:F:206:LYS:O	1:F:218:ILE:HD12	2.18	0.43
1:G:221:PRO:O	1:G:225:ARG:HG3	2.18	0.43
1:I:414:ASN:HB3	1:J:534:VAL:CG2	2.47	0.43
1:J:151:ILE:HA	1:J:154:LEU:HB2	2.00	0.43
1:K:151:ILE:HA	1:K:154:LEU:HB2	2.00	0.43
1:M:106:ILE:HG13	1:M:106:ILE:O	2.19	0.43
1:N:221:PRO:HD2	1:N:224:ALA:HB2	2.00	0.43
1:B:106:ILE:HG13	1:B:106:ILE:O	2.19	0.43
1:C:161:VAL:HA	1:C:164:ILE:CG1	2.47	0.43
1:C:324:GLN:HB2	1:C:571:ILE:HB	1.99	0.43
1:D:335:GLN:HB2	1:D:417:ASN:HB3	2.00	0.43
1:D:361:LEU:HD12	1:D:361:LEU:O	2.18	0.43
1:E:361:LEU:O	1:E:361:LEU:HD12	2.18	0.43
1:E:335:GLN:HB2	1:E:417:ASN:HB3	2.00	0.43
1:G:210:ASP:OD1	1:G:212:ARG:N	2.51	0.43
1:H:206:LYS:O	1:H:218:ILE:HD12	2.18	0.43
1:H:221:PRO:O	1:H:225:ARG:HG3	2.18	0.43
1:H:259:VAL:HG22	1:H:299:LEU:HD11	2.00	0.43
1:K:324:GLN:HB2	1:K:571:ILE:HB	1.99	0.43
1:M:221:PRO:HD2	1:M:224:ALA:HB2	2.00	0.43
1:A:221:PRO:O	1:A:225:ARG:HG3	2.18	0.43
1:A:324:GLN:HB2	1:A:571:ILE:HB	1.99	0.43
1:C:109:LEU:HD21	1:C:112:VAL:HB	1.99	0.43
1:E:259:VAL:HG22	1:E:299:LEU:HD11	2.00	0.43
1:G:221:PRO:HD2	1:G:224:ALA:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:151:ILE:HA	1:I:154:LEU:HB2	2.00	0.43
1:I:259:VAL:HG22	1:I:299:LEU:HD11	2.00	0.43
1:L:106:ILE:O	1:L:106:ILE:HG13	2.19	0.43
1:N:262:LEU:HD23	1:N:262:LEU:HA	1.83	0.43
1:O:124:MET:HB3	1:O:154:LEU:HD21	2.01	0.43
1:B:124:MET:HB3	1:B:154:LEU:HD21	2.01	0.43
1:C:106:ILE:HG13	1:C:106:ILE:O	2.19	0.43
1:C:124:MET:HB3	1:C:154:LEU:HD21	2.01	0.43
1:D:109:LEU:HD21	1:D:112:VAL:HB	1.99	0.43
1:D:124:MET:HB3	1:D:154:LEU:HD21	2.01	0.43
1:D:259:VAL:HG22	1:D:299:LEU:HD11	2.00	0.43
1:D:324:GLN:HB2	1:D:571:ILE:HB	1.99	0.43
1:F:361:LEU:O	1:F:361:LEU:HD12	2.18	0.43
1:H:117:LEU:HD13	1:H:157:VAL:HG12	2.01	0.43
1:H:221:PRO:HD2	1:H:224:ALA:HB2	2.00	0.43
1:I:117:LEU:HD13	1:I:157:VAL:HG12	2.01	0.43
1:I:232:LEU:HA	1:I:232:LEU:HD23	1.90	0.43
1:J:210:ASP:OD1	1:J:212:ARG:N	2.51	0.43
1:J:206:LYS:O	1:J:218:ILE:HD12	2.18	0.43
1:J:221:PRO:HD2	1:J:224:ALA:HB2	2.00	0.43
1:K:106:ILE:O	1:K:106:ILE:HG13	2.19	0.43
1:M:221:PRO:O	1:M:225:ARG:HG3	2.18	0.43
1:M:347:ALA:HB2	1:M:363:ILE:HG12	2.01	0.43
1:M:361:LEU:HD12	1:M:361:LEU:O	2.18	0.43
1:O:335:GLN:HB2	1:O:417:ASN:HB3	2.00	0.43
1:C:221:PRO:O	1:C:225:ARG:HG3	2.18	0.43
1:E:210:ASP:OD1	1:E:212:ARG:N	2.51	0.43
1:F:259:VAL:HG22	1:F:299:LEU:HD11	2.00	0.43
1:G:117:LEU:HD13	1:G:157:VAL:HG12	2.01	0.43
1:I:221:PRO:HD2	1:I:224:ALA:HB2	2.00	0.43
1:J:117:LEU:HD13	1:J:157:VAL:HG12	2.01	0.43
1:N:124:MET:HB3	1:N:154:LEU:HD21	2.01	0.43
1:N:210:ASP:OD1	1:N:212:ARG:N	2.51	0.43
1:O:206:LYS:O	1:O:218:ILE:HD12	2.18	0.43
1:A:124:MET:HB3	1:A:154:LEU:HD21	2.01	0.43
1:A:206:LYS:O	1:A:218:ILE:HD12	2.18	0.43
1:A:335:GLN:HB2	1:A:417:ASN:HB3	2.00	0.43
1:A:475:ASN:HA	1:A:476:GLU:HA	1.78	0.43
1:B:225:ARG:O	1:B:229:THR:HG23	2.18	0.43
1:B:324:GLN:HB2	1:B:571:ILE:HB	1.99	0.43
1:C:206:LYS:O	1:C:218:ILE:HD12	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:221:PRO:O	1:E:225:ARG:HG3	2.18	0.43
1:G:259:VAL:HG22	1:G:299:LEU:HD11	2.00	0.43
1:I:171:ILE:HD11	1:J:234:SER:HB3	2.01	0.43
1:K:221:PRO:O	1:K:225:ARG:HG3	2.18	0.43
1:L:221:PRO:HD2	1:L:224:ALA:HB2	2.00	0.43
1:L:347:ALA:HB2	1:L:363:ILE:HG12	2.01	0.43
1:L:361:LEU:O	1:L:361:LEU:HD12	2.18	0.43
1:M:225:ARG:O	1:M:229:THR:HG23	2.18	0.43
1:A:171:ILE:HD11	1:B:234:SER:HB3	2.01	0.43
1:B:361:LEU:HD12	1:B:361:LEU:O	2.18	0.43
1:B:475:ASN:HA	1:B:476:GLU:HA	1.78	0.43
1:C:335:GLN:HB2	1:C:417:ASN:HB3	2.00	0.43
1:D:221:PRO:HD2	1:D:224:ALA:HB2	2.00	0.43
1:F:335:GLN:HB2	1:F:417:ASN:HB3	2.00	0.43
1:J:171:ILE:HD11	1:K:234:SER:HB3	2.01	0.43
1:N:206:LYS:O	1:N:218:ILE:HD12	2.18	0.43
1:E:221:PRO:HD2	1:E:224:ALA:HB2	2.00	0.42
1:N:347:ALA:HB2	1:N:363:ILE:HG12	2.01	0.42
1:O:109:LEU:CD1	1:O:162:ASP:HA	2.50	0.42
1:A:234:SER:HB3	1:O:171:ILE:HD11	2.01	0.42
1:B:171:ILE:HD11	1:C:234:SER:HB3	2.01	0.42
1:D:123:GLN:HA	1:D:126:ASP:HB3	2.02	0.42
1:E:124:MET:HB3	1:E:154:LEU:HD21	2.01	0.42
1:F:124:MET:HB3	1:F:154:LEU:HD21	2.01	0.42
1:G:335:GLN:HB2	1:G:417:ASN:HB3	2.00	0.42
1:H:171:ILE:HD11	1:I:234:SER:HB3	2.01	0.42
1:L:124:MET:HB3	1:L:154:LEU:HD21	2.01	0.42
1:L:109:LEU:CD1	1:L:162:ASP:HA	2.50	0.42
1:O:475:ASN:HA	1:O:476:GLU:HA	1.78	0.42
1:B:123:GLN:HA	1:B:126:ASP:HB3	2.02	0.42
1:B:117:LEU:HD13	1:B:157:VAL:HG12	2.01	0.42
1:B:206:LYS:O	1:B:218:ILE:HD12	2.18	0.42
1:D:344:VAL:O	1:D:354:GLN:NE2	2.53	0.42
1:E:106:ILE:HG13	1:E:106:ILE:O	2.19	0.42
1:F:109:LEU:CD1	1:F:162:ASP:HA	2.50	0.42
1:F:117:LEU:HD13	1:F:157:VAL:HG12	2.01	0.42
1:F:210:ASP:OD1	1:F:212:ARG:N	2.51	0.42
1:G:106:ILE:HG13	1:G:106:ILE:O	2.19	0.42
1:K:347:ALA:HB2	1:K:363:ILE:HG12	2.01	0.42
1:M:124:MET:HB3	1:M:154:LEU:HD21	2.01	0.42
1:M:206:LYS:O	1:M:218:ILE:HD12	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:361:LEU:O	1:O:361:LEU:HD12	2.18	0.42
1:A:344:VAL:O	1:A:354:GLN:NE2	2.53	0.42
1:B:344:VAL:O	1:B:354:GLN:NE2	2.53	0.42
1:D:210:ASP:OD1	1:D:212:ARG:N	2.51	0.42
1:F:344:VAL:O	1:F:354:GLN:NE2	2.53	0.42
1:H:106:ILE:O	1:H:106:ILE:HG13	2.19	0.42
1:H:344:VAL:O	1:H:354:GLN:NE2	2.53	0.42
1:J:361:LEU:HD12	1:J:361:LEU:O	2.18	0.42
1:K:117:LEU:HD13	1:K:157:VAL:HG12	2.01	0.42
1:K:171:ILE:HD11	1:L:234:SER:HB3	2.01	0.42
1:M:210:ASP:OD1	1:M:212:ARG:N	2.51	0.42
1:O:123:GLN:HA	1:O:126:ASP:HB3	2.02	0.42
1:O:210:ASP:OD1	1:O:212:ARG:N	2.51	0.42
1:A:117:LEU:HD13	1:A:157:VAL:HG12	2.01	0.42
1:B:335:GLN:HB2	1:B:417:ASN:HB3	2.00	0.42
1:C:117:LEU:HD13	1:C:157:VAL:HG12	2.01	0.42
1:C:475:ASN:HA	1:C:476:GLU:HA	1.78	0.42
1:E:109:LEU:CD1	1:E:162:ASP:HA	2.50	0.42
1:F:123:GLN:HA	1:F:126:ASP:HB3	2.02	0.42
1:F:262:LEU:HA	1:F:262:LEU:HD23	1.83	0.42
1:G:109:LEU:CD1	1:G:162:ASP:HA	2.50	0.42
1:J:106:ILE:HG13	1:J:106:ILE:O	2.19	0.42
1:B:210:ASP:OD1	1:B:212:ARG:N	2.51	0.42
1:D:135:HIS:HE1	1:E:120:LEU:HB2	1.85	0.42
1:D:109:LEU:CD1	1:D:162:ASP:HA	2.50	0.42
1:E:344:VAL:O	1:E:354:GLN:NE2	2.53	0.42
1:F:347:ALA:HB2	1:F:363:ILE:HG12	2.01	0.42
1:G:206:LYS:O	1:G:218:ILE:HD12	2.18	0.42
1:G:344:VAL:O	1:G:354:GLN:NE2	2.53	0.42
1:H:361:LEU:HD12	1:H:361:LEU:O	2.18	0.42
1:M:206:LYS:HZ3	1:N:190:ILE:C	2.23	0.42
1:O:344:VAL:O	1:O:354:GLN:NE2	2.53	0.42
1:B:135:HIS:HE1	1:C:120:LEU:HB2	1.85	0.42
1:C:171:ILE:HD11	1:D:234:SER:HB3	2.02	0.42
1:D:347:ALA:HB2	1:D:363:ILE:HG12	2.01	0.42
1:G:124:MET:HB3	1:G:154:LEU:HD21	2.01	0.42
1:G:475:ASN:HA	1:G:476:GLU:HA	1.78	0.42
1:H:144:LEU:HD11	1:H:158:ILE:CD1	2.50	0.42
1:J:144:LEU:HD11	1:J:158:ILE:CD1	2.50	0.42
1:J:344:VAL:O	1:J:354:GLN:NE2	2.53	0.42
1:K:124:MET:HB3	1:K:154:LEU:HD21	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:221:PRO:HD2	1:K:224:ALA:HB2	2.00	0.42
1:O:117:LEU:HD13	1:O:157:VAL:HG12	2.01	0.42
1:N:171:ILE:HD11	1:O:234:SER:HB3	2.01	0.42
1:O:262:LEU:HD23	1:O:262:LEU:HA	1.83	0.42
1:O:571:ILE:CG2	1:O:577:TYR:HB2	2.50	0.42
1:A:109:LEU:CD1	1:A:162:ASP:HA	2.50	0.42
1:A:571:ILE:CG2	1:A:577:TYR:HB2	2.50	0.42
1:C:135:HIS:HE1	1:D:120:LEU:HB2	1.85	0.42
1:E:135:HIS:HE1	1:F:120:LEU:HB2	1.85	0.42
1:E:347:ALA:HB2	1:E:363:ILE:HG12	2.01	0.42
1:G:171:ILE:HD11	1:H:234:SER:HB3	2.01	0.42
1:H:109:LEU:CD1	1:H:162:ASP:HA	2.50	0.42
1:I:144:LEU:HD11	1:I:158:ILE:CD1	2.50	0.42
1:I:344:VAL:O	1:I:354:GLN:NE2	2.53	0.42
1:K:109:LEU:CD1	1:K:162:ASP:HA	2.50	0.42
1:K:206:LYS:O	1:K:218:ILE:HD12	2.18	0.42
1:L:144:LEU:HD11	1:L:158:ILE:CD1	2.50	0.42
1:A:120:LEU:HB2	1:O:135:HIS:HE1	1.85	0.42
1:C:109:LEU:CD1	1:C:162:ASP:HA	2.50	0.42
1:C:344:VAL:O	1:C:354:GLN:NE2	2.53	0.42
1:D:117:LEU:HD13	1:D:157:VAL:HG12	2.01	0.42
1:D:184:GLU:O	1:D:188:GLN:HG2	2.20	0.42
1:E:117:LEU:HD13	1:E:157:VAL:HG12	2.01	0.42
1:E:184:GLU:O	1:E:188:GLN:HG2	2.20	0.42
1:F:221:PRO:HD2	1:F:224:ALA:HB2	2.00	0.42
1:F:571:ILE:CG2	1:F:577:TYR:HB2	2.50	0.42
1:I:109:LEU:CD1	1:I:162:ASP:HA	2.50	0.42
1:J:184:GLU:O	1:J:188:GLN:HG2	2.20	0.42
1:L:135:HIS:HE1	1:M:120:LEU:HB2	1.85	0.42
1:L:344:VAL:O	1:L:354:GLN:NE2	2.53	0.42
1:M:109:LEU:CD1	1:M:162:ASP:HA	2.50	0.42
1:M:184:GLU:O	1:M:188:GLN:HG2	2.20	0.42
1:N:109:LEU:CD1	1:N:162:ASP:HA	2.50	0.42
1:N:184:GLU:O	1:N:188:GLN:HG2	2.20	0.42
1:N:571:ILE:CG2	1:N:577:TYR:HB2	2.50	0.42
1:O:347:ALA:HB2	1:O:363:ILE:HG12	2.01	0.42
1:A:436:ASN:HB2	1:B:507:THR:HB	2.02	0.42
1:C:184:GLU:O	1:C:188:GLN:HG2	2.20	0.42
1:C:347:ALA:HB2	1:C:363:ILE:HG12	2.01	0.42
1:C:571:ILE:CG2	1:C:577:TYR:HB2	2.50	0.42
1:E:206:LYS:HZ3	1:F:190:ILE:C	2.24	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:171:ILE:HD11	1:E:234:SER:HB3	2.01	0.42
1:H:124:MET:HB3	1:H:154:LEU:HD21	2.01	0.42
1:I:106:ILE:HG13	1:I:106:ILE:O	2.19	0.42
1:I:124:MET:HB3	1:I:154:LEU:HD21	2.01	0.42
1:K:144:LEU:HD11	1:K:158:ILE:CD1	2.50	0.42
1:K:206:LYS:HZ3	1:L:190:ILE:C	2.23	0.42
1:K:344:VAL:O	1:K:354:GLN:NE2	2.53	0.42
1:L:206:LYS:O	1:L:218:ILE:HD12	2.18	0.42
1:M:135:HIS:HE1	1:N:120:LEU:HB2	1.85	0.42
1:N:475:ASN:HA	1:N:476:GLU:HA	1.78	0.42
1:B:118:ALA:HB1	1:B:122:ARG:HH21	1.85	0.41
1:B:184:GLU:O	1:B:188:GLN:HG2	2.20	0.41
1:D:475:ASN:HA	1:D:476:GLU:HA	1.78	0.41
1:D:571:ILE:CG2	1:D:577:TYR:HB2	2.50	0.41
1:F:106:ILE:O	1:F:106:ILE:HG13	2.19	0.41
1:F:118:ALA:HB1	1:F:122:ARG:HH21	1.85	0.41
1:F:184:GLU:O	1:F:188:GLN:HG2	2.20	0.41
1:G:123:GLN:HA	1:G:126:ASP:HB3	2.02	0.41
1:G:144:LEU:HD11	1:G:158:ILE:CD1	2.50	0.41
1:H:232:LEU:HA	1:H:232:LEU:HD23	1.90	0.41
1:J:159:LYS:O	1:J:162:ASP:HB3	2.20	0.41
1:K:118:ALA:HB1	1:K:122:ARG:HH21	1.85	0.41
1:K:135:HIS:HE1	1:L:120:LEU:HB2	1.85	0.41
1:M:344:VAL:O	1:M:354:GLN:NE2	2.53	0.41
1:N:144:LEU:HD11	1:N:158:ILE:CD1	2.50	0.41
1:N:344:VAL:O	1:N:354:GLN:NE2	2.53	0.41
1:B:175:GLU:HG3	1:B:176:TYR:CD2	2.56	0.41
1:B:436:ASN:HB2	1:C:507:THR:HB	2.02	0.41
1:D:159:LYS:O	1:D:162:ASP:HB3	2.20	0.41
1:D:175:GLU:HG3	1:D:176:TYR:CD2	2.55	0.41
1:F:144:LEU:HD11	1:F:158:ILE:CD1	2.50	0.41
1:F:175:GLU:HG3	1:F:176:TYR:CD2	2.55	0.41
1:G:175:GLU:HG3	1:G:176:TYR:CD2	2.56	0.41
1:G:347:ALA:HB2	1:G:363:ILE:HG12	2.01	0.41
1:H:571:ILE:CG2	1:H:577:TYR:HB2	2.50	0.41
1:I:123:GLN:HA	1:I:126:ASP:HB3	2.02	0.41
1:I:184:GLU:O	1:I:188:GLN:HG2	2.20	0.41
1:J:118:ALA:HB1	1:J:122:ARG:HH21	1.85	0.41
1:K:571:ILE:CG2	1:K:577:TYR:HB2	2.50	0.41
1:L:118:ALA:HB1	1:L:122:ARG:HH21	1.85	0.41
1:L:123:GLN:HA	1:L:126:ASP:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:171:ILE:HD11	1:M:234:SER:HB3	2.01	0.41
1:L:571:ILE:CG2	1:L:577:TYR:HB2	2.50	0.41
1:M:144:LEU:HD11	1:M:158:ILE:CD1	2.50	0.41
1:M:175:GLU:HG3	1:M:176:TYR:CD2	2.55	0.41
1:M:571:ILE:CG2	1:M:577:TYR:HB2	2.50	0.41
1:N:117:LEU:HD13	1:N:157:VAL:HG12	2.01	0.41
1:N:175:GLU:HG3	1:N:176:TYR:CD2	2.56	0.41
1:A:507:THR:HB	1:O:436:ASN:HB2	2.03	0.41
1:A:118:ALA:HB1	1:A:122:ARG:HH21	1.85	0.41
1:A:184:GLU:O	1:A:188:GLN:HG2	2.20	0.41
1:B:571:ILE:CG2	1:B:577:TYR:HB2	2.50	0.41
1:E:118:ALA:HB1	1:E:122:ARG:HH21	1.85	0.41
1:F:475:ASN:HA	1:F:476:GLU:HA	1.78	0.41
1:F:135:HIS:HE1	1:G:120:LEU:HB2	1.85	0.41
1:I:159:LYS:O	1:I:162:ASP:HB3	2.20	0.41
1:J:109:LEU:CD1	1:J:162:ASP:HA	2.50	0.41
1:J:124:MET:HB3	1:J:154:LEU:HD21	2.01	0.41
1:J:347:ALA:HB2	1:J:363:ILE:HG12	2.01	0.41
1:J:212:ARG:CZ	1:K:181:ASP:OD2	2.69	0.41
1:L:117:LEU:HD13	1:L:157:VAL:HG12	2.01	0.41
1:N:123:GLN:HA	1:N:126:ASP:HB3	2.02	0.41
1:O:175:GLU:HG3	1:O:176:TYR:CD2	2.56	0.41
1:B:109:LEU:CD1	1:B:162:ASP:HA	2.50	0.41
1:E:159:LYS:O	1:E:162:ASP:HB3	2.20	0.41
1:E:571:ILE:CG2	1:E:577:TYR:HB2	2.50	0.41
1:G:184:GLU:O	1:G:188:GLN:HG2	2.20	0.41
1:H:347:ALA:HB2	1:H:363:ILE:HG12	2.01	0.41
1:H:436:ASN:HB2	1:I:507:THR:HB	2.02	0.41
1:N:135:HIS:HE1	1:O:120:LEU:HB2	1.85	0.41
1:O:159:LYS:O	1:O:162:ASP:HB3	2.20	0.41
1:N:212:ARG:CZ	1:O:181:ASP:OD2	2.69	0.41
1:B:159:LYS:O	1:B:162:ASP:HB3	2.20	0.41
1:C:436:ASN:HB2	1:D:507:THR:HB	2.02	0.41
1:E:123:GLN:HA	1:E:126:ASP:HB3	2.02	0.41
1:E:475:ASN:HA	1:E:476:GLU:HA	1.78	0.41
1:F:171:ILE:HD11	1:G:234:SER:HB3	2.01	0.41
1:G:571:ILE:CG2	1:G:577:TYR:HB2	2.50	0.41
1:I:206:LYS:HZ3	1:J:190:ILE:C	2.24	0.41
1:I:347:ALA:HB2	1:I:363:ILE:HG12	2.01	0.41
1:O:184:GLU:O	1:O:188:GLN:HG2	2.20	0.41
1:A:123:GLN:HA	1:A:126:ASP:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:347:ALA:HB2	1:B:363:ILE:HG12	2.01	0.41
1:C:159:LYS:O	1:C:162:ASP:HB3	2.20	0.41
1:B:212:ARG:CZ	1:C:181:ASP:OD2	2.69	0.41
1:E:171:ILE:HD11	1:F:234:SER:HB3	2.01	0.41
1:G:149:SER:O	1:G:152:ASN:HB2	2.21	0.41
1:I:548:GLN:HA	1:I:551:ARG:HG2	2.03	0.41
1:J:571:ILE:CG2	1:J:577:TYR:HB2	2.50	0.41
1:K:159:LYS:O	1:K:162:ASP:HB3	2.20	0.41
1:L:149:SER:O	1:L:152:ASN:HB2	2.21	0.41
1:L:159:LYS:O	1:L:162:ASP:HB3	2.20	0.41
1:M:171:ILE:HD11	1:N:234:SER:HB3	2.01	0.41
1:N:159:LYS:O	1:N:162:ASP:HB3	2.20	0.41
1:N:436:ASN:HB2	1:O:507:THR:HB	2.02	0.41
1:C:149:SER:O	1:C:152:ASN:HB2	2.21	0.41
1:C:167:GLU:HA	1:C:221:PRO:CA	2.50	0.41
1:C:175:GLU:HG3	1:C:176:TYR:CD2	2.56	0.41
1:D:436:ASN:HB2	1:E:507:THR:HB	2.02	0.41
1:H:159:LYS:O	1:H:162:ASP:HB3	2.20	0.41
1:H:175:GLU:HG3	1:H:176:TYR:CD2	2.56	0.41
1:I:121:LEU:HA	1:I:121:LEU:HD23	1.86	0.41
1:J:135:HIS:HE1	1:K:120:LEU:HB2	1.85	0.41
1:I:436:ASN:HB2	1:J:507:THR:HB	2.03	0.41
1:K:184:GLU:O	1:K:188:GLN:HG2	2.20	0.41
1:M:118:ALA:HB1	1:M:122:ARG:HH21	1.85	0.41
1:M:212:ARG:CZ	1:N:181:ASP:OD2	2.69	0.41
1:A:108:PRO:HB3	1:A:141:VAL:HA	2.03	0.41
1:A:149:SER:O	1:A:152:ASN:HB2	2.21	0.41
1:A:144:LEU:HD11	1:A:158:ILE:CD1	2.50	0.41
1:B:262:LEU:HA	1:B:262:LEU:HD23	1.83	0.41
1:C:123:GLN:HA	1:C:126:ASP:HB3	2.02	0.41
1:D:167:GLU:HA	1:D:221:PRO:CA	2.51	0.41
1:G:436:ASN:HB2	1:H:507:THR:HB	2.02	0.41
1:H:548:GLN:HA	1:H:551:ARG:HG2	2.03	0.41
1:I:118:ALA:HB1	1:I:122:ARG:HH21	1.85	0.41
1:J:149:SER:O	1:J:152:ASN:HB2	2.21	0.41
1:J:548:GLN:HA	1:J:551:ARG:HG2	2.03	0.41
1:K:108:PRO:HB3	1:K:141:VAL:HA	2.03	0.41
1:L:184:GLU:O	1:L:188:GLN:HG2	2.20	0.41
1:M:117:LEU:HD13	1:M:157:VAL:HG12	2.01	0.41
1:N:149:SER:O	1:N:152:ASN:HB2	2.21	0.41
1:O:144:LEU:HD11	1:O:158:ILE:CD1	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:135:HIS:HE1	1:B:120:LEU:HB2	1.85	0.41
1:B:144:LEU:HD11	1:B:158:ILE:CD1	2.50	0.41
1:C:144:LEU:HD11	1:C:158:ILE:CD1	2.50	0.41
1:D:149:SER:O	1:D:152:ASN:HB2	2.21	0.41
1:D:536:LYS:HE3	1:D:542:ASP:OD1	2.21	0.41
1:J:104:THR:OG1	1:J:144:LEU:O	2.21	0.41
1:I:212:ARG:CZ	1:J:181:ASP:OD2	2.69	0.41
1:J:436:ASN:HB2	1:K:507:THR:HB	2.02	0.41
1:K:167:GLU:HA	1:K:221:PRO:CA	2.51	0.41
1:L:175:GLU:HG3	1:L:176:TYR:CD2	2.56	0.41
1:M:108:PRO:HB3	1:M:141:VAL:HA	2.03	0.41
1:B:167:GLU:HA	1:B:221:PRO:CA	2.50	0.41
1:D:258:LEU:HD21	1:D:318:LEU:CD2	2.43	0.41
1:E:167:GLU:HA	1:E:221:PRO:CA	2.51	0.41
1:E:175:GLU:HG3	1:E:176:TYR:CD2	2.55	0.41
1:E:548:GLN:HA	1:E:551:ARG:HG2	2.03	0.41
1:F:149:SER:O	1:F:152:ASN:HB2	2.21	0.41
1:F:159:LYS:O	1:F:162:ASP:HB3	2.20	0.41
1:J:108:PRO:HB3	1:J:141:VAL:HA	2.03	0.41
1:M:288:VAL:HG22	1:M:303:ALA:HB2	2.03	0.41
1:N:121:LEU:HD21	1:N:157:VAL:HB	2.03	0.41
1:O:108:PRO:HB3	1:O:141:VAL:HA	2.03	0.41
1:A:175:GLU:HG3	1:A:176:TYR:CD2	2.56	0.41
1:A:347:ALA:HB2	1:A:363:ILE:HG12	2.01	0.41
1:C:258:LEU:HD21	1:C:318:LEU:CD2	2.43	0.41
1:D:144:LEU:HD11	1:D:158:ILE:CD1	2.50	0.41
1:D:548:GLN:HA	1:D:551:ARG:HG2	2.03	0.41
1:H:149:SER:O	1:H:152:ASN:HB2	2.21	0.41
1:I:571:ILE:CG2	1:I:577:TYR:HB2	2.50	0.41
1:K:121:LEU:HD21	1:K:157:VAL:HB	2.03	0.41
1:L:121:LEU:HD21	1:L:157:VAL:HB	2.03	0.41
1:L:108:PRO:HB3	1:L:141:VAL:HA	2.03	0.41
1:M:123:GLN:HA	1:M:126:ASP:HB3	2.02	0.41
1:M:536:LYS:HE3	1:M:542:ASP:OD1	2.21	0.41
1:O:232:LEU:HD23	1:O:232:LEU:HA	1.90	0.41
1:B:108:PRO:HB3	1:B:141:VAL:HA	2.03	0.40
1:A:212:ARG:CZ	1:B:181:ASP:OD2	2.69	0.40
1:E:536:LYS:HE3	1:E:542:ASP:OD1	2.21	0.40
1:F:436:ASN:HB2	1:G:507:THR:HB	2.02	0.40
1:H:123:GLN:HA	1:H:126:ASP:HB3	2.02	0.40
1:J:288:VAL:HG22	1:J:303:ALA:HB2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:121:LEU:HD21	1:M:157:VAL:HB	2.03	0.40
1:M:232:LEU:HA	1:M:232:LEU:HD23	1.90	0.40
1:N:108:PRO:HB3	1:N:141:VAL:HA	2.03	0.40
1:N:536:LYS:HE3	1:N:542:ASP:OD1	2.21	0.40
1:O:118:ALA:HB1	1:O:122:ARG:HH21	1.85	0.40
1:O:536:LYS:HE3	1:O:542:ASP:OD1	2.21	0.40
1:B:149:SER:O	1:B:152:ASN:HB2	2.21	0.40
1:C:226:GLN:HG3	1:C:227:ARG:N	2.37	0.40
1:E:362:PRO:HD2	1:E:388:MET:SD	2.62	0.40
1:F:108:PRO:HB3	1:F:141:VAL:HA	2.03	0.40
1:E:436:ASN:HB2	1:F:507:THR:HB	2.02	0.40
1:G:108:PRO:HB3	1:G:141:VAL:HA	2.03	0.40
1:G:135:HIS:HE1	1:H:120:LEU:HB2	1.85	0.40
1:H:226:GLN:HG3	1:H:227:ARG:N	2.37	0.40
1:I:108:PRO:HB3	1:I:141:VAL:HA	2.03	0.40
1:I:175:GLU:HG3	1:I:176:TYR:CD2	2.56	0.40
1:J:123:GLN:HA	1:J:126:ASP:HB3	2.02	0.40
1:J:226:GLN:HG3	1:J:227:ARG:N	2.37	0.40
1:K:175:GLU:HG3	1:K:176:TYR:CD2	2.56	0.40
1:K:436:ASN:HB2	1:L:507:THR:HB	2.02	0.40
1:L:536:LYS:HE3	1:L:542:ASP:OD1	2.21	0.40
1:M:159:LYS:O	1:M:162:ASP:HB3	2.20	0.40
1:M:436:ASN:HB2	1:N:507:THR:HB	2.02	0.40
1:A:121:LEU:HD21	1:A:157:VAL:HB	2.03	0.40
1:A:167:GLU:HA	1:A:221:PRO:CA	2.51	0.40
1:A:226:GLN:HG3	1:A:227:ARG:N	2.37	0.40
1:B:226:GLN:HG3	1:B:227:ARG:N	2.37	0.40
1:C:362:PRO:HD2	1:C:388:MET:SD	2.62	0.40
1:C:536:LYS:HE3	1:C:542:ASP:OD1	2.21	0.40
1:C:548:GLN:HA	1:C:551:ARG:HG2	2.03	0.40
1:D:118:ALA:HB1	1:D:122:ARG:HH21	1.85	0.40
1:D:121:LEU:HD21	1:D:157:VAL:HB	2.03	0.40
1:E:108:PRO:HB3	1:E:141:VAL:HA	2.03	0.40
1:E:144:LEU:HD11	1:E:158:ILE:CD1	2.50	0.40
1:F:536:LYS:HE3	1:F:542:ASP:OD1	2.21	0.40
1:G:159:LYS:O	1:G:162:ASP:HB3	2.20	0.40
1:H:108:PRO:HB3	1:H:141:VAL:HA	2.03	0.40
1:H:135:HIS:HE1	1:I:120:LEU:HB2	1.85	0.40
1:H:184:GLU:O	1:H:188:GLN:HG2	2.20	0.40
1:H:428:LEU:HD11	1:I:481:LEU:HD11	2.04	0.40
1:G:428:LEU:HD11	1:H:481:LEU:HD11	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:428:LEU:HD11	1:J:481:LEU:HD11	2.04	0.40
1:J:175:GLU:HG3	1:J:176:TYR:CD2	2.55	0.40
1:J:262:LEU:HA	1:J:262:LEU:HD23	1.83	0.40
1:J:349:LYS:HE3	1:J:349:LYS:HB2	1.90	0.40
1:J:536:LYS:HE3	1:J:542:ASP:OD1	2.21	0.40
1:K:123:GLN:HA	1:K:126:ASP:HB3	2.02	0.40
1:K:548:GLN:HA	1:K:551:ARG:HG2	2.03	0.40
1:O:149:SER:O	1:O:152:ASN:HB2	2.21	0.40
1:O:121:LEU:HD21	1:O:157:VAL:HB	2.03	0.40
1:O:362:PRO:HD2	1:O:388:MET:SD	2.62	0.40
1:O:548:GLN:HA	1:O:551:ARG:HG2	2.03	0.40
1:B:258:LEU:HD21	1:B:318:LEU:CD2	2.43	0.40
1:D:226:GLN:HG3	1:D:227:ARG:N	2.37	0.40
1:G:226:GLN:HG3	1:G:227:ARG:N	2.37	0.40
1:G:232:LEU:HD23	1:G:232:LEU:HA	1.90	0.40
1:I:226:GLN:HG3	1:I:227:ARG:N	2.37	0.40
1:I:536:LYS:HE3	1:I:542:ASP:OD1	2.21	0.40
1:I:135:HIS:HE1	1:J:120:LEU:HB2	1.85	0.40
1:J:167:GLU:HA	1:J:221:PRO:CA	2.51	0.40
1:K:536:LYS:HE3	1:K:542:ASP:OD1	2.21	0.40
1:L:226:GLN:HG3	1:L:227:ARG:N	2.37	0.40
1:M:149:SER:O	1:M:152:ASN:HB2	2.21	0.40
1:M:329:ALA:O	1:M:422:THR:HA	2.22	0.40
1:M:475:ASN:HA	1:M:476:GLU:HA	1.78	0.40
1:A:362:PRO:HD2	1:A:388:MET:SD	2.62	0.40
1:A:428:LEU:HD11	1:B:481:LEU:HD11	2.04	0.40
1:C:108:PRO:HB3	1:C:141:VAL:HA	2.03	0.40
1:C:326:LEU:HD21	1:C:328:GLU:OE2	2.22	0.40
1:D:108:PRO:HB3	1:D:141:VAL:HA	2.03	0.40
1:E:149:SER:O	1:E:152:ASN:HB2	2.21	0.40
1:F:362:PRO:HD2	1:F:388:MET:SD	2.62	0.40
1:G:118:ALA:HB1	1:G:122:ARG:HH21	1.85	0.40
1:G:349:LYS:HE3	1:G:349:LYS:HB2	1.90	0.40
1:G:329:ALA:O	1:G:422:THR:HA	2.22	0.40
1:G:548:GLN:HA	1:G:551:ARG:HG2	2.03	0.40
1:H:167:GLU:HA	1:H:221:PRO:CA	2.50	0.40
1:I:207:ILE:HG23	1:I:216:LEU:HD11	2.04	0.40
1:J:207:ILE:HG23	1:J:216:LEU:HD11	2.04	0.40
1:J:428:LEU:HD11	1:K:481:LEU:HD11	2.04	0.40
1:L:212:ARG:CZ	1:M:181:ASP:OD2	2.69	0.40
1:N:136:TYR:HE1	1:N:142:LEU:HG	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:288:VAL:HG22	1:N:303:ALA:HB2	2.03	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	464/627 (74%)	442 (95%)	19 (4%)	3 (1%)	30	70
1	B	464/627 (74%)	442 (95%)	19 (4%)	3 (1%)	30	70
1	C	464/627 (74%)	442 (95%)	19 (4%)	3 (1%)	30	70
1	D	464/627 (74%)	442 (95%)	19 (4%)	3 (1%)	30	70
1	E	464/627 (74%)	442 (95%)	19 (4%)	3 (1%)	30	70
1	F	464/627 (74%)	442 (95%)	19 (4%)	3 (1%)	30	70
1	G	464/627 (74%)	442 (95%)	19 (4%)	3 (1%)	30	70
1	H	464/627 (74%)	442 (95%)	19 (4%)	3 (1%)	30	70
1	I	464/627 (74%)	442 (95%)	19 (4%)	3 (1%)	30	70
1	J	464/627 (74%)	442 (95%)	19 (4%)	3 (1%)	30	70
1	K	464/627 (74%)	442 (95%)	19 (4%)	3 (1%)	30	70
1	L	464/627 (74%)	442 (95%)	19 (4%)	3 (1%)	30	70
1	M	464/627 (74%)	442 (95%)	19 (4%)	3 (1%)	30	70
1	N	464/627 (74%)	442 (95%)	19 (4%)	3 (1%)	30	70
1	O	464/627 (74%)	442 (95%)	19 (4%)	3 (1%)	30	70
All	All	6960/9405 (74%)	6630 (95%)	285 (4%)	45 (1%)	34	70

All (45) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	480	VAL
1	B	480	VAL
1	C	480	VAL
1	D	480	VAL
1	E	480	VAL
1	F	480	VAL
1	G	480	VAL
1	H	480	VAL
1	I	480	VAL
1	J	480	VAL
1	K	480	VAL
1	L	480	VAL
1	M	480	VAL
1	N	480	VAL
1	O	480	VAL
1	A	242	GLU
1	B	242	GLU
1	C	242	GLU
1	D	242	GLU
1	E	242	GLU
1	F	242	GLU
1	G	242	GLU
1	H	242	GLU
1	I	242	GLU
1	J	242	GLU
1	K	242	GLU
1	L	242	GLU
1	M	242	GLU
1	N	242	GLU
1	O	242	GLU
1	A	130	VAL
1	B	130	VAL
1	C	130	VAL
1	D	130	VAL
1	E	130	VAL
1	F	130	VAL
1	G	130	VAL
1	H	130	VAL
1	I	130	VAL
1	J	130	VAL
1	K	130	VAL
1	L	130	VAL
1	M	130	VAL

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Mol	Chain	Res	Type
1	N	130	VAL
1	O	130	VAL

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	405/537 (75%)	404 (100%)	1 (0%)	95	99
1	B	405/537 (75%)	404 (100%)	1 (0%)	95	99
1	C	405/537 (75%)	404 (100%)	1 (0%)	95	99
1	D	405/537 (75%)	404 (100%)	1 (0%)	95	99
1	E	405/537 (75%)	404 (100%)	1 (0%)	95	99
1	F	405/537 (75%)	404 (100%)	1 (0%)	95	99
1	G	405/537 (75%)	404 (100%)	1 (0%)	95	99
1	H	405/537 (75%)	404 (100%)	1 (0%)	95	99
1	I	405/537 (75%)	404 (100%)	1 (0%)	95	99
1	J	405/537 (75%)	404 (100%)	1 (0%)	95	99
1	K	405/537 (75%)	404 (100%)	1 (0%)	95	99
1	L	405/537 (75%)	404 (100%)	1 (0%)	95	99
1	M	405/537 (75%)	404 (100%)	1 (0%)	95	99
1	N	405/537 (75%)	404 (100%)	1 (0%)	95	99
1	O	405/537 (75%)	404 (100%)	1 (0%)	95	99
All	All	6075/8055 (75%)	6060 (100%)	15 (0%)	95	99

All (15) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	258	LEU
1	B	258	LEU
1	C	258	LEU
1	D	258	LEU

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Mol	Chain	Res	Type
1	E	258	LEU
1	F	258	LEU
1	G	258	LEU
1	H	258	LEU
1	I	258	LEU
1	J	258	LEU
1	K	258	LEU
1	L	258	LEU
1	M	258	LEU
1	N	258	LEU
1	O	258	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (165) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	135	HIS
1	A	214	ASN
1	A	257	ASN
1	A	295	GLN
1	A	305	GLN
1	A	308	GLN
1	A	324	GLN
1	A	335	GLN
1	A	368	GLN
1	A	473	GLN
1	A	475	ASN
1	B	135	HIS
1	B	214	ASN
1	B	257	ASN
1	B	295	GLN
1	B	305	GLN
1	B	308	GLN
1	B	324	GLN
1	B	335	GLN
1	B	368	GLN
1	B	473	GLN
1	B	475	ASN
1	C	135	HIS
1	C	214	ASN
1	C	257	ASN
1	C	295	GLN
1	C	305	GLN

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Mol	Chain	Res	Type
1	C	308	GLN
1	C	324	GLN
1	C	335	GLN
1	C	368	GLN
1	C	473	GLN
1	C	475	ASN
1	D	135	HIS
1	D	214	ASN
1	D	257	ASN
1	D	295	GLN
1	D	305	GLN
1	D	308	GLN
1	D	324	GLN
1	D	335	GLN
1	D	368	GLN
1	D	473	GLN
1	D	475	ASN
1	E	135	HIS
1	E	214	ASN
1	E	257	ASN
1	E	295	GLN
1	E	305	GLN
1	E	308	GLN
1	E	324	GLN
1	E	335	GLN
1	E	368	GLN
1	E	473	GLN
1	E	475	ASN
1	F	135	HIS
1	F	214	ASN
1	F	257	ASN
1	F	295	GLN
1	F	305	GLN
1	F	308	GLN
1	F	324	GLN
1	F	335	GLN
1	F	368	GLN
1	F	473	GLN
1	F	475	ASN
1	G	135	HIS
1	G	214	ASN
1	G	257	ASN

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Mol	Chain	Res	Type
1	G	295	GLN
1	G	305	GLN
1	G	308	GLN
1	G	324	GLN
1	G	335	GLN
1	G	368	GLN
1	G	473	GLN
1	G	475	ASN
1	H	135	HIS
1	H	214	ASN
1	H	257	ASN
1	H	295	GLN
1	H	305	GLN
1	H	308	GLN
1	H	324	GLN
1	H	335	GLN
1	H	368	GLN
1	H	473	GLN
1	H	475	ASN
1	I	135	HIS
1	I	214	ASN
1	I	257	ASN
1	I	295	GLN
1	I	305	GLN
1	I	308	GLN
1	I	324	GLN
1	I	335	GLN
1	I	368	GLN
1	I	473	GLN
1	I	475	ASN
1	J	135	HIS
1	J	214	ASN
1	J	257	ASN
1	J	295	GLN
1	J	305	GLN
1	J	308	GLN
1	J	324	GLN
1	J	335	GLN
1	J	368	GLN
1	J	473	GLN
1	J	475	ASN
1	K	135	HIS

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Mol	Chain	Res	Type
1	K	214	ASN
1	K	257	ASN
1	K	295	GLN
1	K	305	GLN
1	K	308	GLN
1	K	324	GLN
1	K	335	GLN
1	K	368	GLN
1	K	473	GLN
1	K	475	ASN
1	L	135	HIS
1	L	214	ASN
1	L	257	ASN
1	L	295	GLN
1	L	305	GLN
1	L	308	GLN
1	L	324	GLN
1	L	335	GLN
1	L	368	GLN
1	L	473	GLN
1	L	475	ASN
1	M	135	HIS
1	M	214	ASN
1	M	257	ASN
1	M	295	GLN
1	M	305	GLN
1	M	308	GLN
1	M	324	GLN
1	M	335	GLN
1	M	368	GLN
1	M	473	GLN
1	M	475	ASN
1	N	135	HIS
1	N	214	ASN
1	N	257	ASN
1	N	295	GLN
1	N	305	GLN
1	N	308	GLN
1	N	324	GLN
1	N	335	GLN
1	N	368	GLN
1	N	473	GLN

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Mol	Chain	Res	Type
1	N	475	ASN
1	O	135	HIS
1	O	214	ASN
1	O	257	ASN
1	O	295	GLN
1	O	305	GLN
1	O	308	GLN
1	O	324	GLN
1	O	335	GLN
1	O	368	GLN
1	O	473	GLN
1	O	475	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry ⓘ

There are no ligands in this entry.

5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.