



Full wwPDB EM Validation Report ⓘ

Mar 25, 2026 – 12:49 AM UTC

PDB ID : 6HCG / pdb_00006hcg
EMDB ID : EMD-0193
Title : Klebsiella pneumoniae type II secretion system outer membrane complex.
PulD, PulS and PulC HR domain.
Authors : Chernyatina, A.A.; Low, H.H.
Deposited on : 2018-08-15
Resolution : 4.30 Å(reported)

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

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

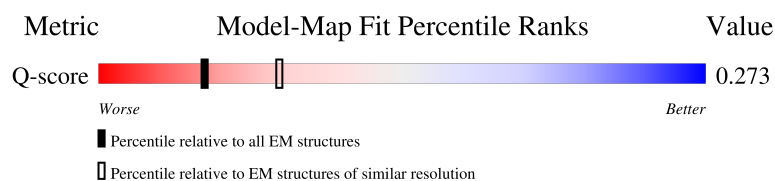
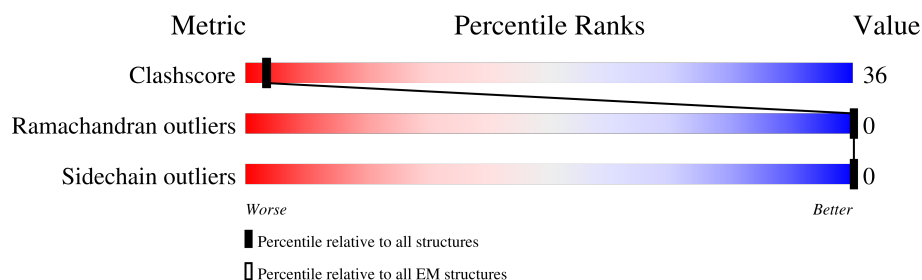
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 4.30 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)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	4585 (3.80 - 4.80)

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

Mol	Chain	Length	Quality of chain
1	A	657	 6% 41% 49% 10%
1	B	657	 7% 42% 48% 10%
1	C	657	 7% 41% 49% 10%
1	D	657	 7% 42% 48% 10%

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Mol	Chain	Length	Quality of chain
1	E	657	
1	F	657	
1	G	657	
1	H	657	
1	I	657	
1	J	657	
1	K	657	
1	L	657	
1	M	657	
1	N	657	
1	O	657	
2	P	143	
2	Q	143	
2	R	143	
2	S	143	
2	T	143	
2	U	143	
2	V	143	
2	W	143	
2	X	143	
2	Y	143	
2	Z	143	
2	a	143	
2	b	143	
2	c	143	

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Mol	Chain	Length	Quality of chain
2	d	143	
3	e	280	
3	f	280	
3	g	280	
3	h	280	
3	i	280	
3	j	280	
3	k	280	
3	l	280	
3	m	280	
3	n	280	
3	o	280	
3	p	280	
3	q	280	
3	r	280	
3	s	280	

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 85185 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 Type II secretion system protein D.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	592	Total	C	N	O	S	0	0
			4447	2780	779	878	10		
1	B	592	Total	C	N	O	S	0	0
			4447	2780	779	878	10		
1	C	592	Total	C	N	O	S	0	0
			4447	2780	779	878	10		
1	D	592	Total	C	N	O	S	0	0
			4447	2780	779	878	10		
1	E	592	Total	C	N	O	S	0	0
			4447	2780	779	878	10		
1	F	592	Total	C	N	O	S	0	0
			4447	2780	779	878	10		
1	G	592	Total	C	N	O	S	0	0
			4447	2780	779	878	10		
1	H	592	Total	C	N	O	S	0	0
			4447	2780	779	878	10		
1	I	592	Total	C	N	O	S	0	0
			4447	2780	779	878	10		
1	J	592	Total	C	N	O	S	0	0
			4447	2780	779	878	10		
1	K	592	Total	C	N	O	S	0	0
			4447	2780	779	878	10		
1	L	592	Total	C	N	O	S	0	0
			4447	2780	779	878	10		
1	M	592	Total	C	N	O	S	0	0
			4447	2780	779	878	10		
1	N	592	Total	C	N	O	S	0	0
			4447	2780	779	878	10		
1	O	592	Total	C	N	O	S	0	0
			4447	2780	779	878	10		

- Molecule 2 is a protein called Pullulanase.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	P	93	Total	C	N	O	S	0	0
			720	441	134	143	2		
2	Q	93	Total	C	N	O	S	0	0
			720	441	134	143	2		
2	R	93	Total	C	N	O	S	0	0
			720	441	134	143	2		
2	S	93	Total	C	N	O	S	0	0
			720	441	134	143	2		
2	T	93	Total	C	N	O	S	0	0
			720	441	134	143	2		
2	U	93	Total	C	N	O	S	0	0
			720	441	134	143	2		
2	V	93	Total	C	N	O	S	0	0
			720	441	134	143	2		
2	W	93	Total	C	N	O	S	0	0
			720	441	134	143	2		
2	X	93	Total	C	N	O	S	0	0
			720	441	134	143	2		
2	Y	93	Total	C	N	O	S	0	0
			720	441	134	143	2		
2	Z	93	Total	C	N	O	S	0	0
			720	441	134	143	2		
2	a	93	Total	C	N	O	S	0	0
			720	441	134	143	2		
2	b	93	Total	C	N	O	S	0	0
			720	441	134	143	2		
2	c	93	Total	C	N	O	S	0	0
			720	441	134	143	2		
2	d	93	Total	C	N	O	S	0	0
			720	441	134	143	2		

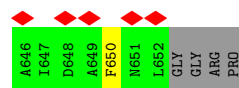
- Molecule 3 is a protein called Pectic enzymes secretion protein OutC.

Mol	Chain	Residues	Atoms				AltConf	Trace
3	e	68	Total	C	N	O	0	0
			512	326	92	94		
3	f	68	Total	C	N	O	0	0
			512	326	92	94		
3	g	68	Total	C	N	O	0	0
			512	326	92	94		
3	h	68	Total	C	N	O	0	0
			512	326	92	94		
3	i	68	Total	C	N	O	0	0
			512	326	92	94		

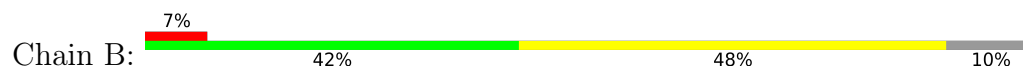
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Mol	Chain	Residues	Atoms				AltConf	Trace
3	j	68	Total 512	C 326	N 92	O 94	0	0
3	k	68	Total 512	C 326	N 92	O 94	0	0
3	l	68	Total 512	C 326	N 92	O 94	0	0
3	m	68	Total 512	C 326	N 92	O 94	0	0
3	n	68	Total 512	C 326	N 92	O 94	0	0
3	o	68	Total 512	C 326	N 92	O 94	0	0
3	p	68	Total 512	C 326	N 92	O 94	0	0
3	q	68	Total 512	C 326	N 92	O 94	0	0
3	r	68	Total 512	C 326	N 92	O 94	0	0
3	s	68	Total 512	C 326	N 92	O 94	0	0

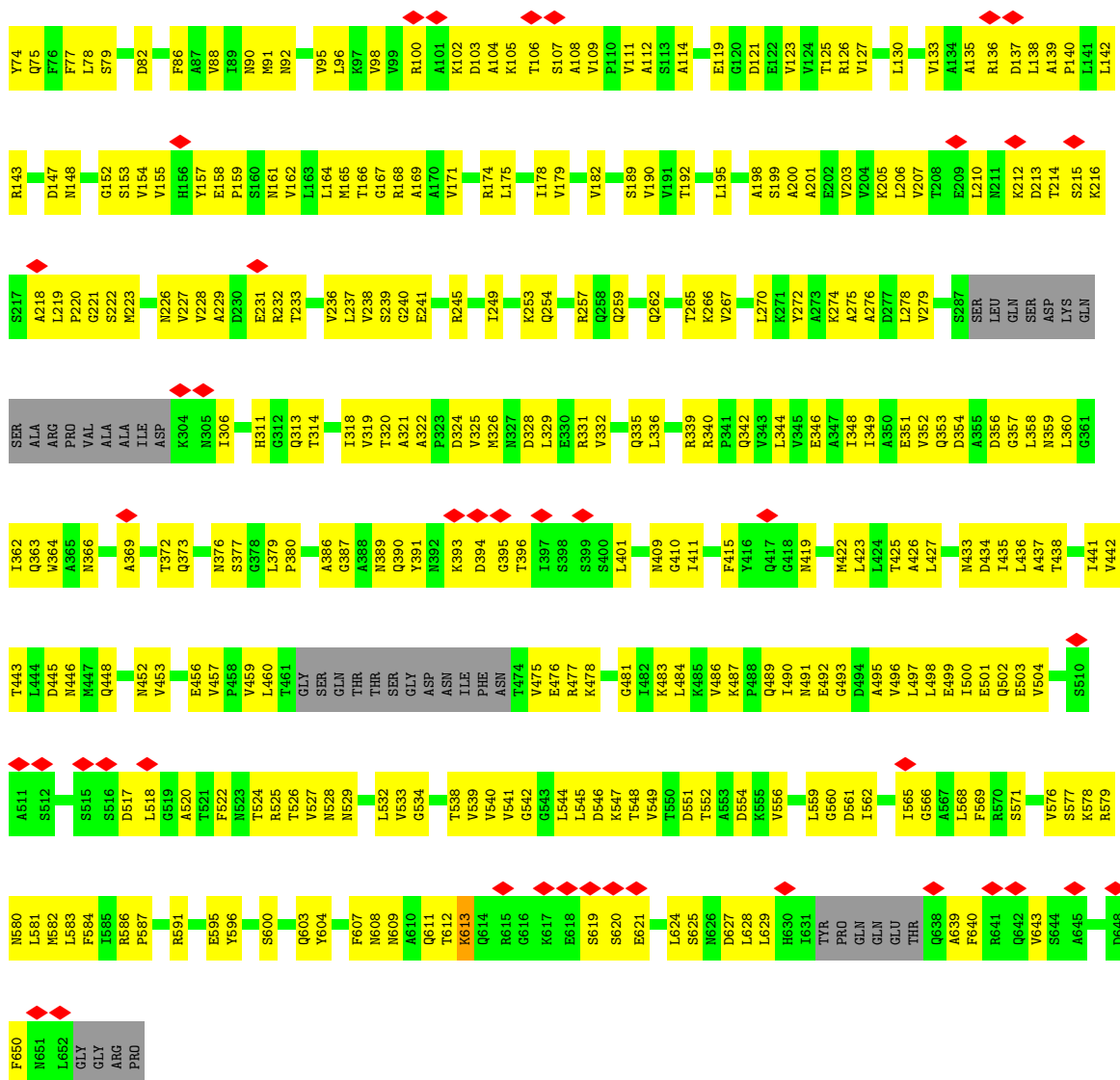


• Molecule 1: Type II secretion system protein D

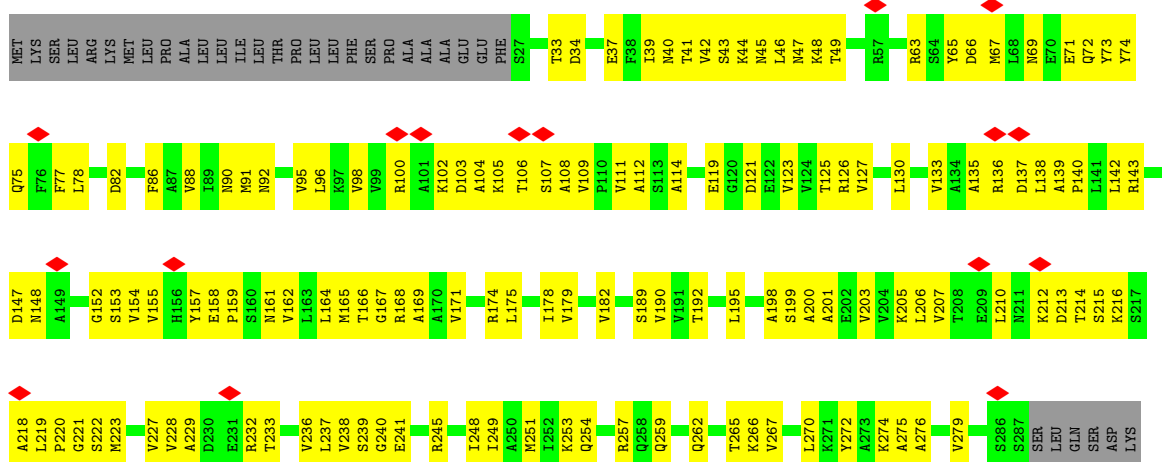
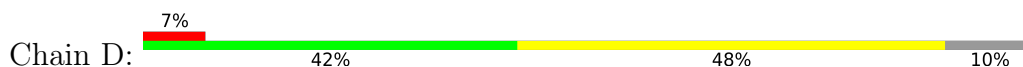


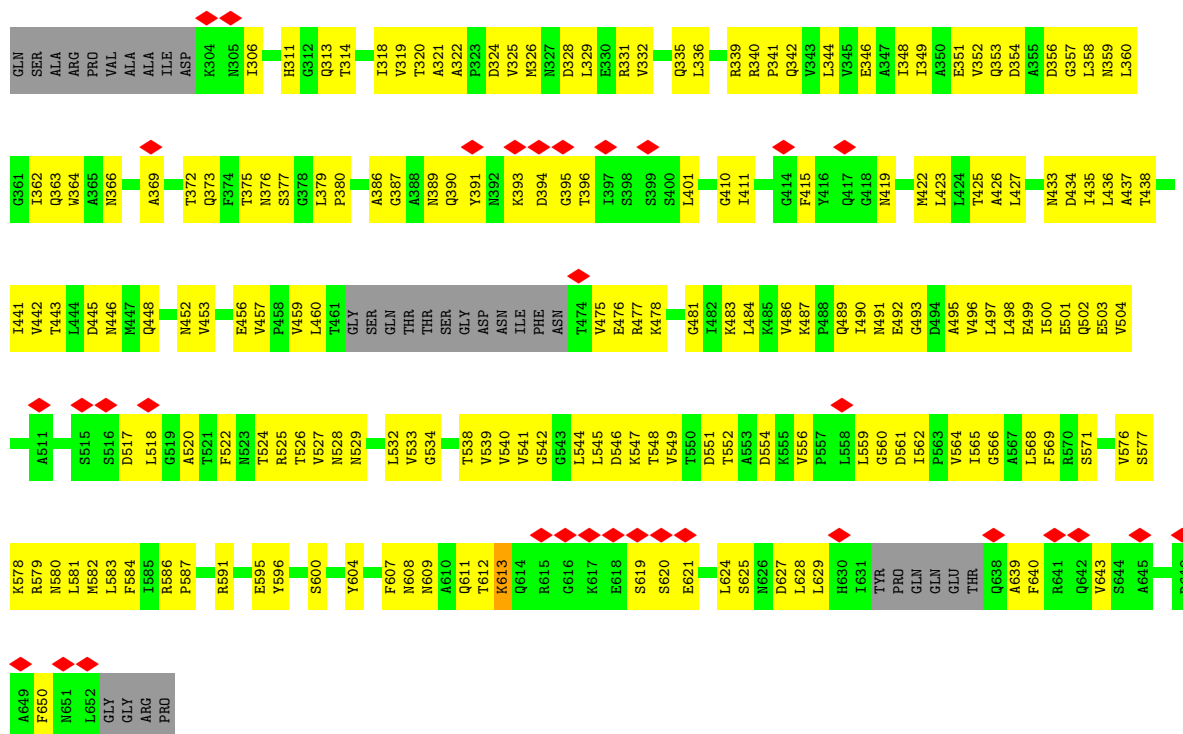
• Molecule 1: Type II secretion system protein D



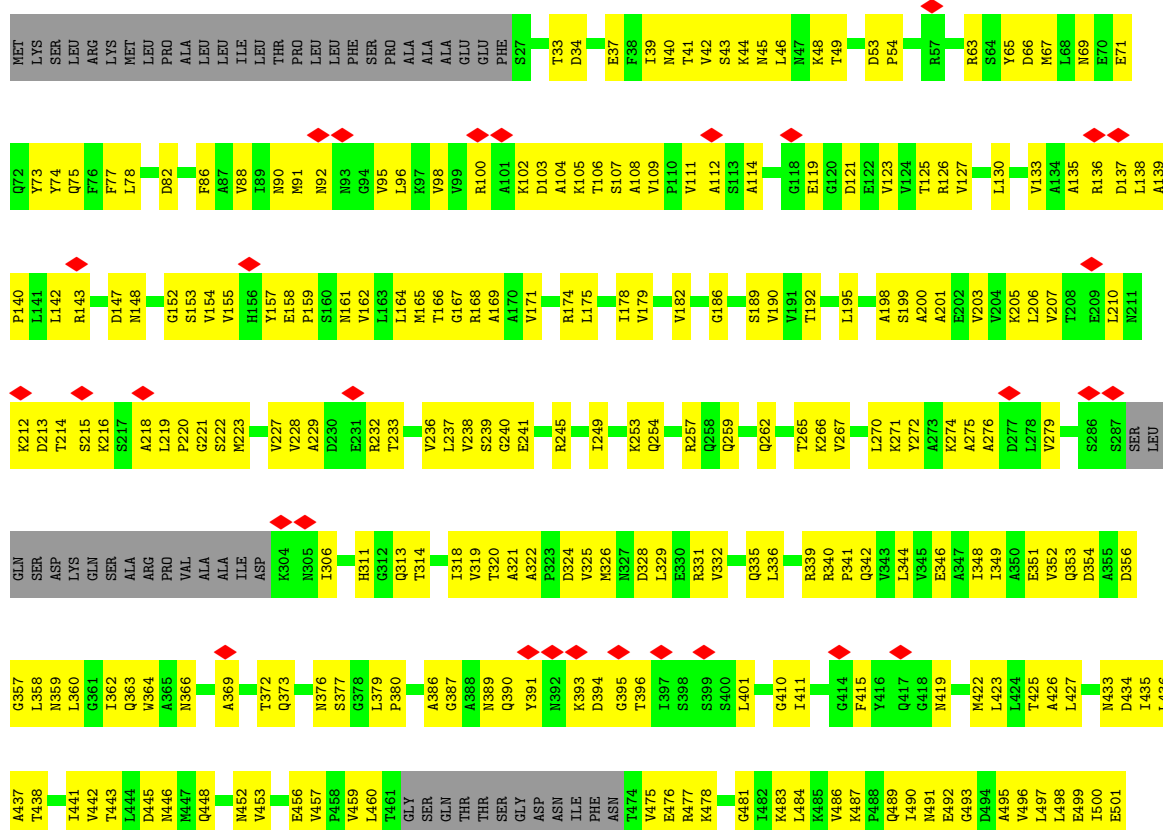


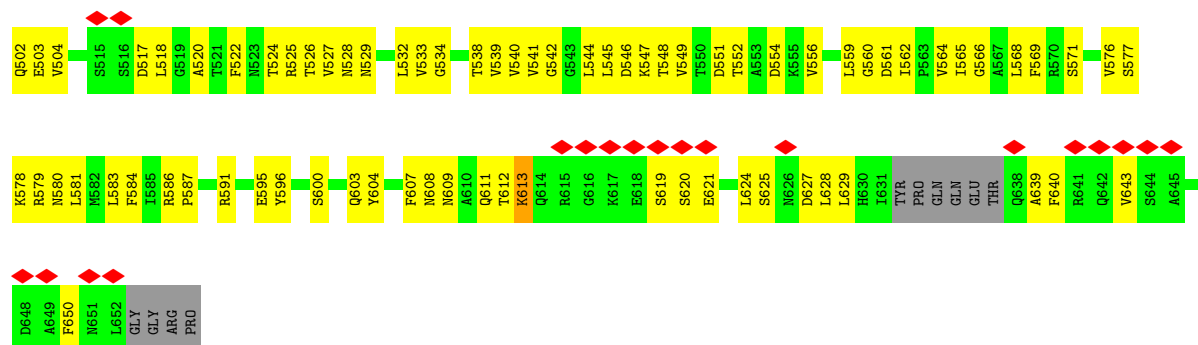
• Molecule 1: Type II secretion system protein D



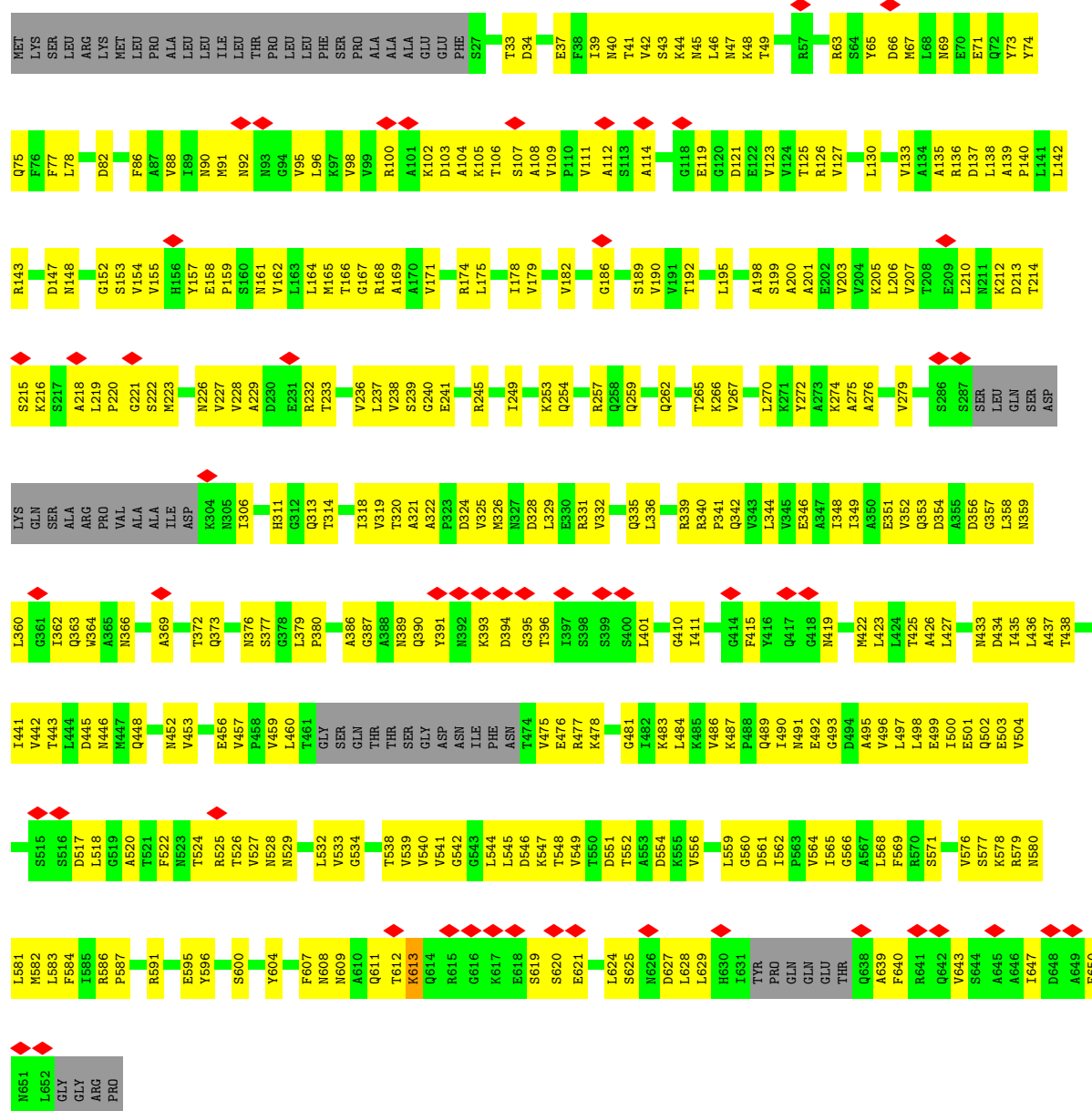
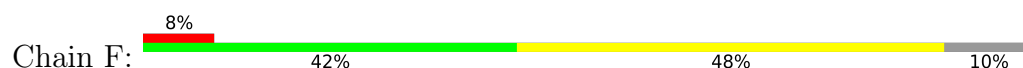


• Molecule 1: Type II secretion system protein D

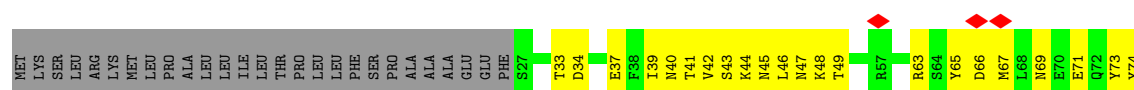


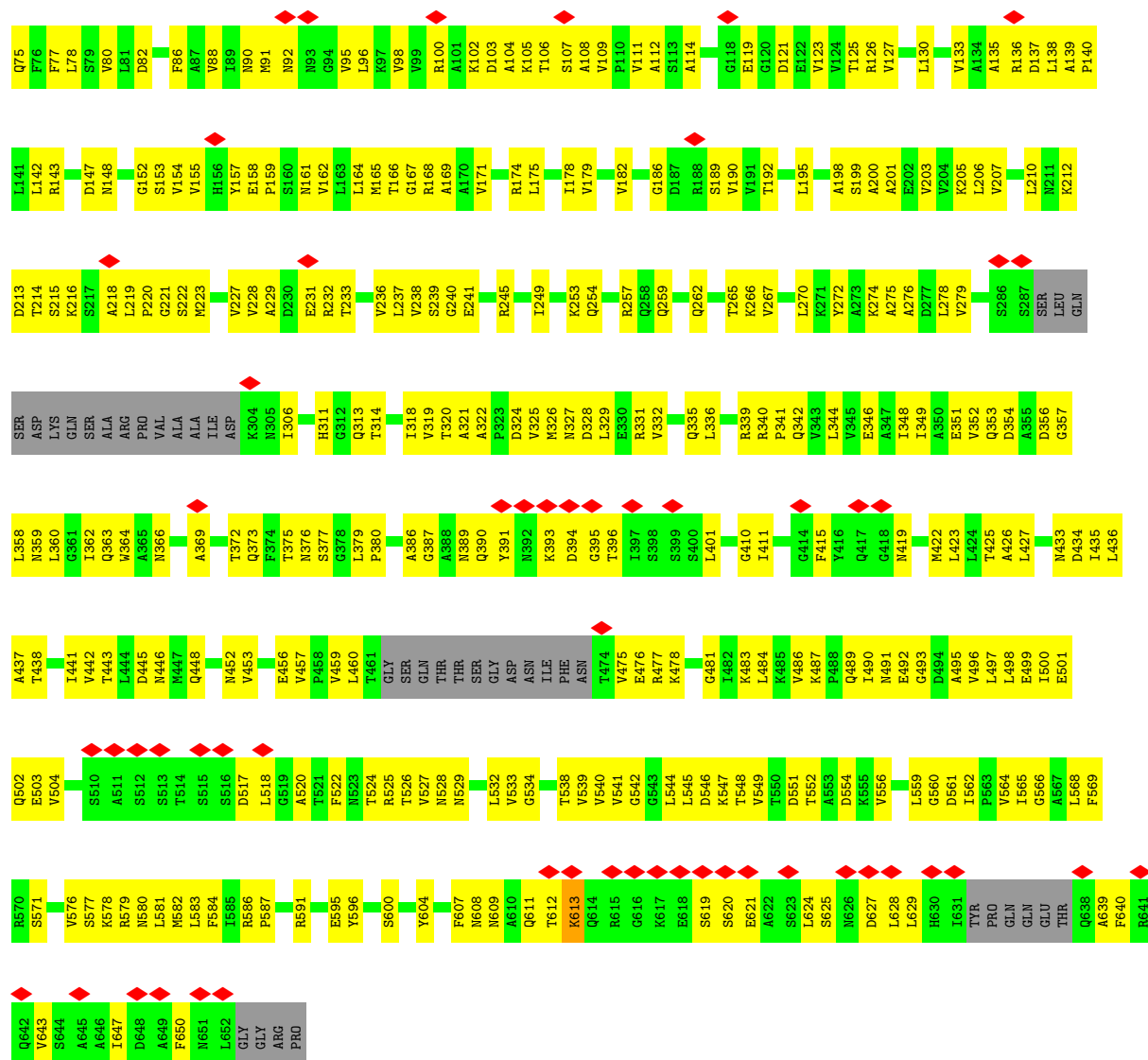


• Molecule 1: Type II secretion system protein D

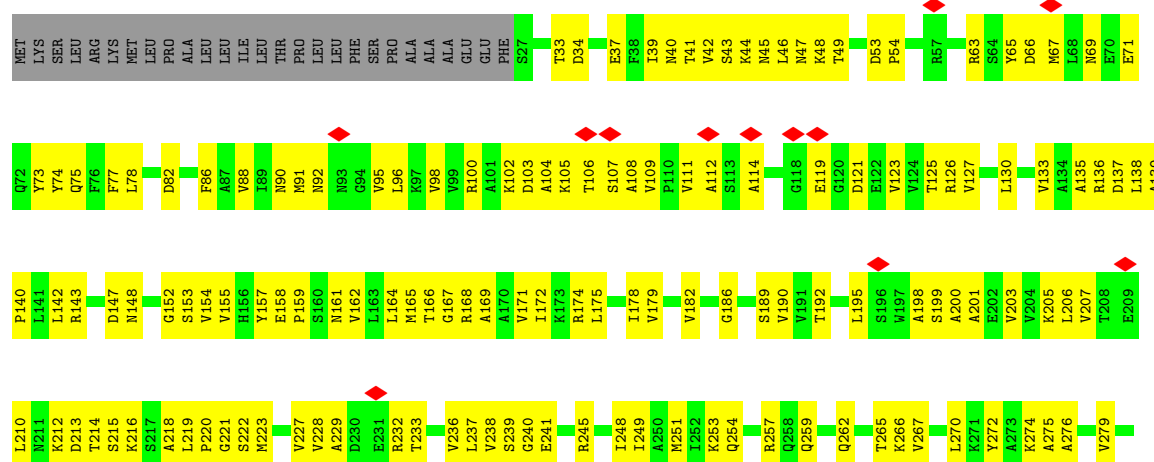


Chain G:

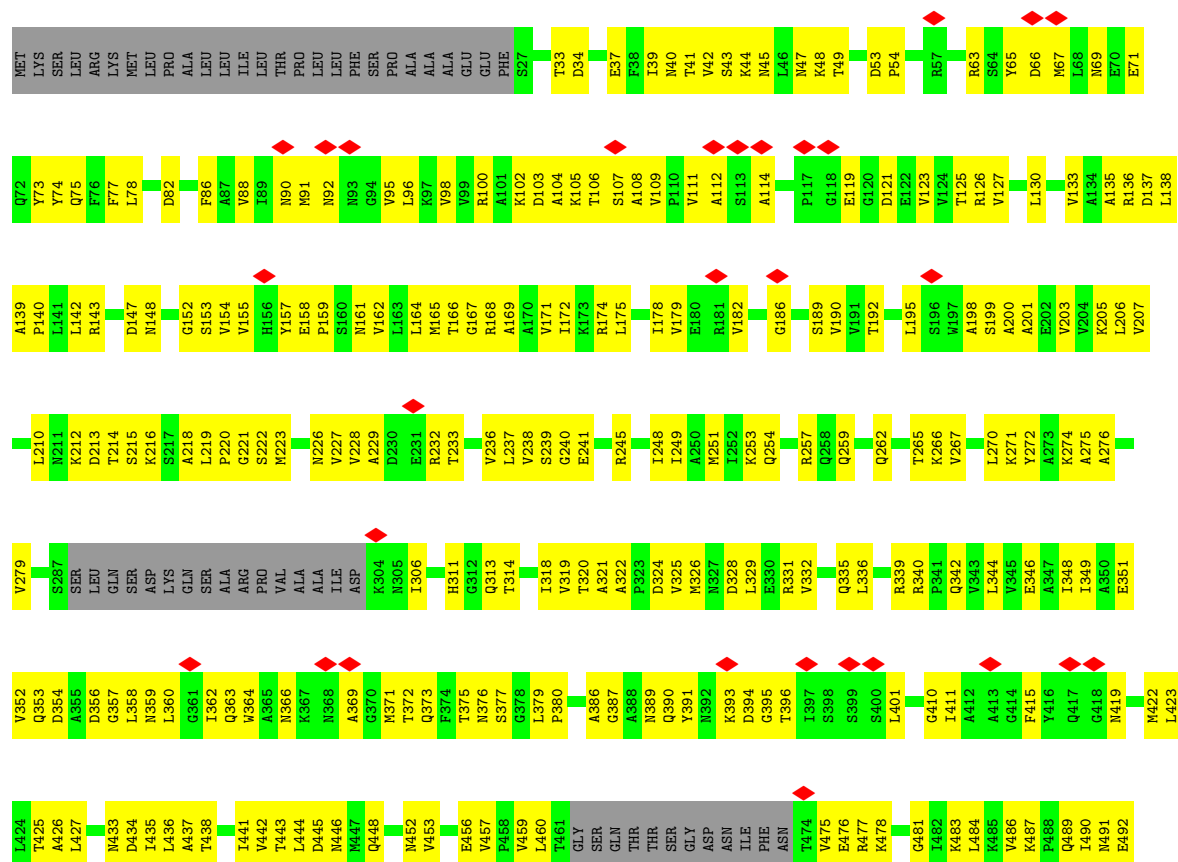


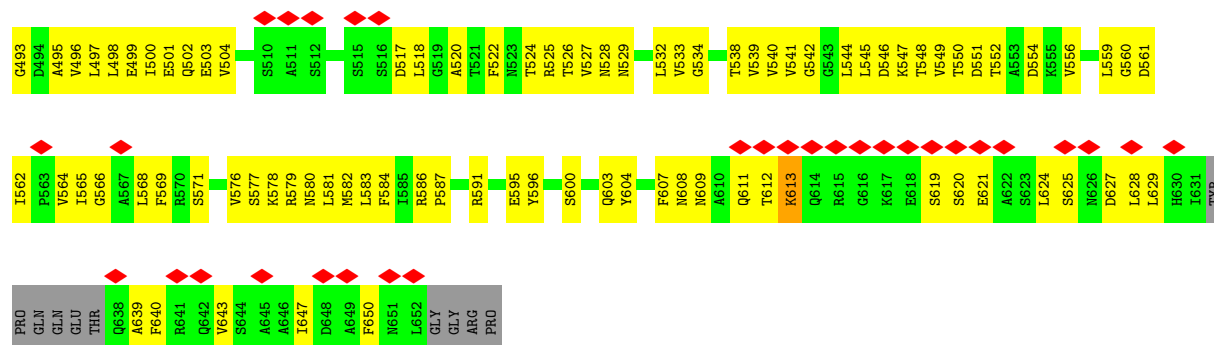


● Molecule 1: Type II secretion system protein D

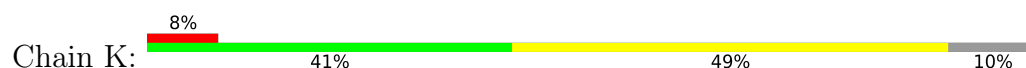


- Molecule 1: Type II secretion system protein D

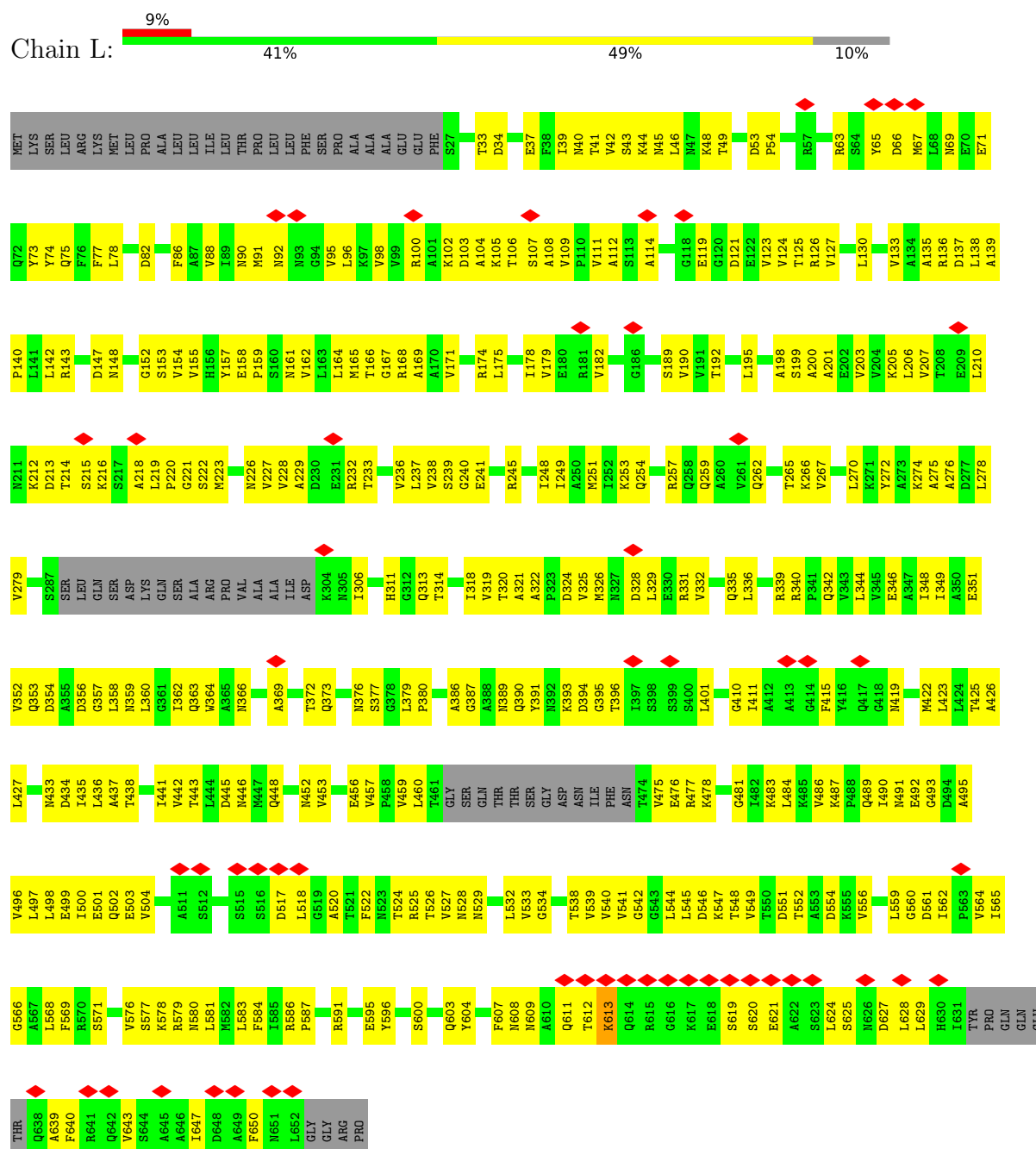




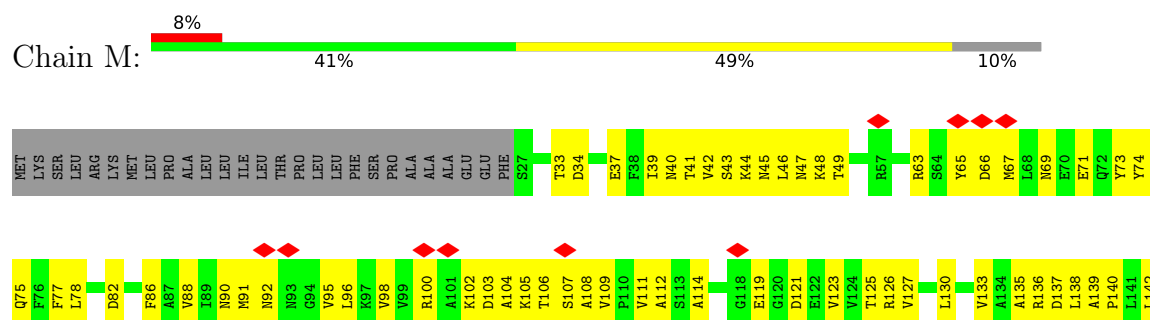
• Molecule 1: Type II secretion system protein D

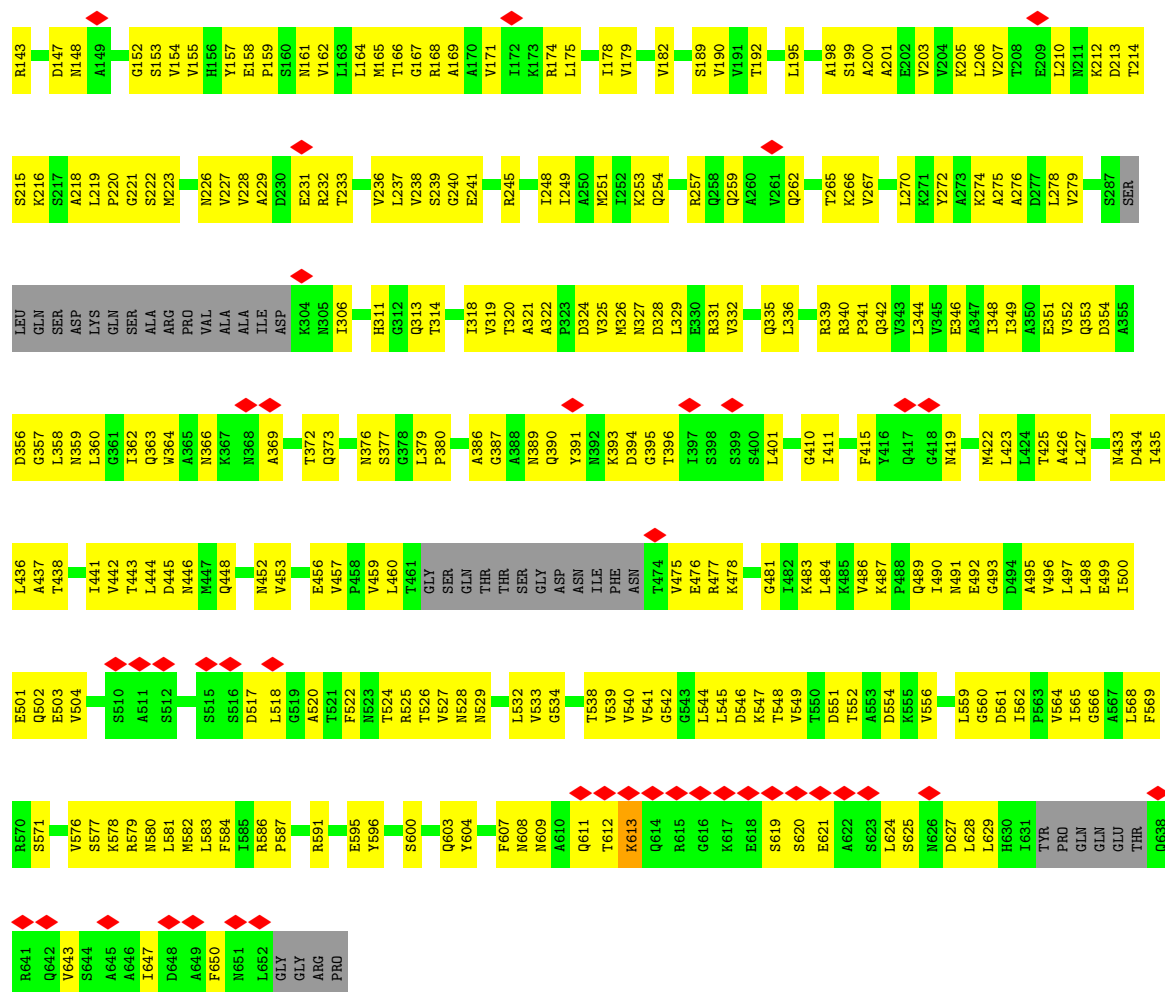


● Molecule 1: Type II secretion system protein D

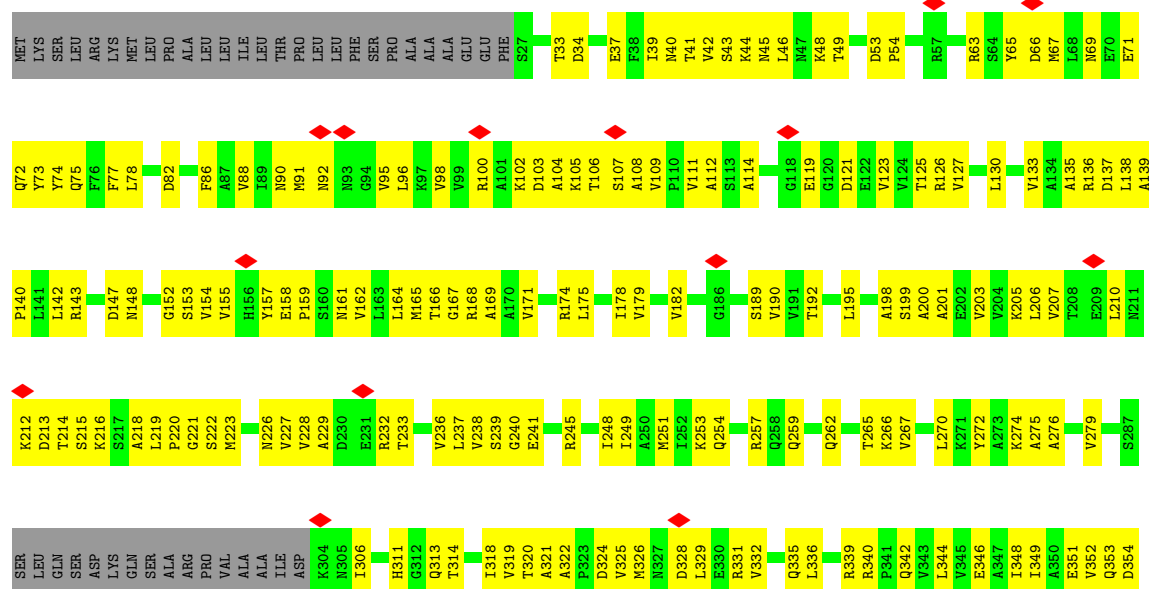


● Molecule 1: Type II secretion system protein D

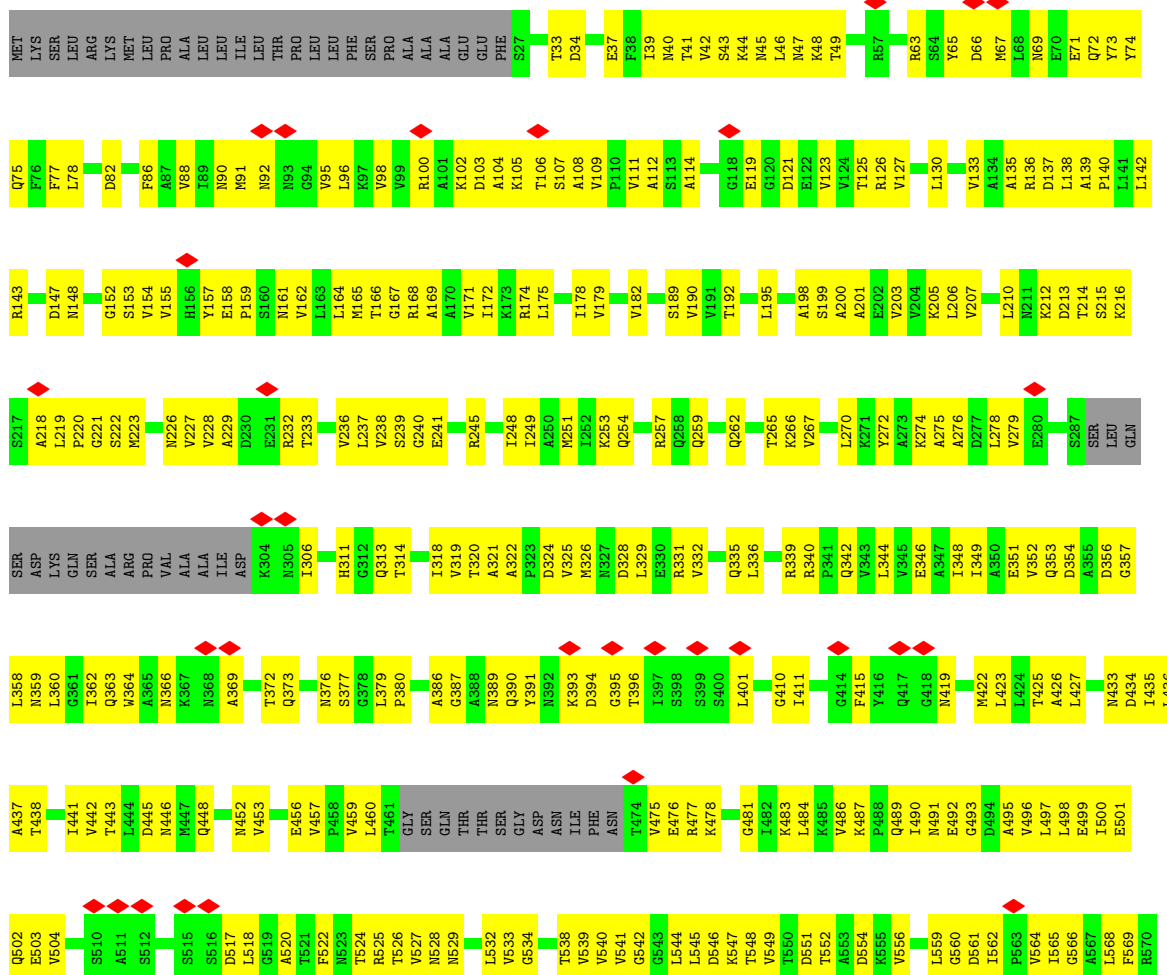


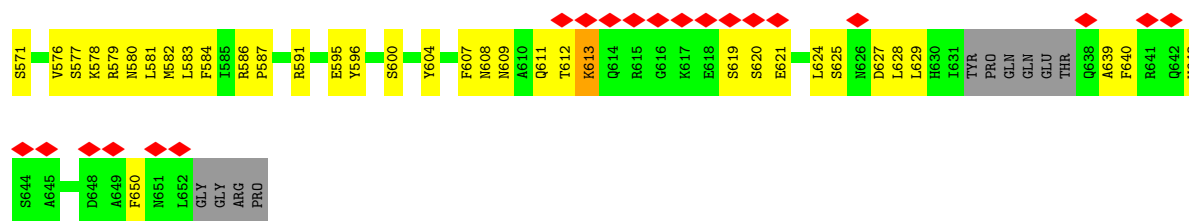


● Molecule 1: Type II secretion system protein D

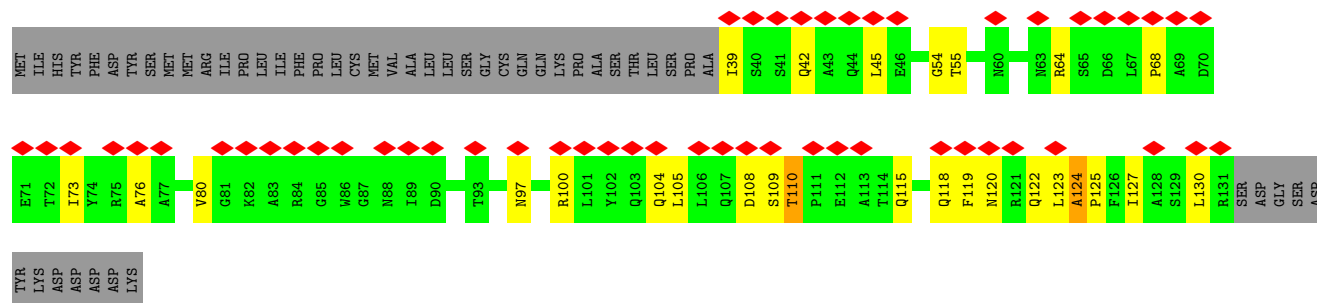


- Molecule 1: Type II secretion system protein D

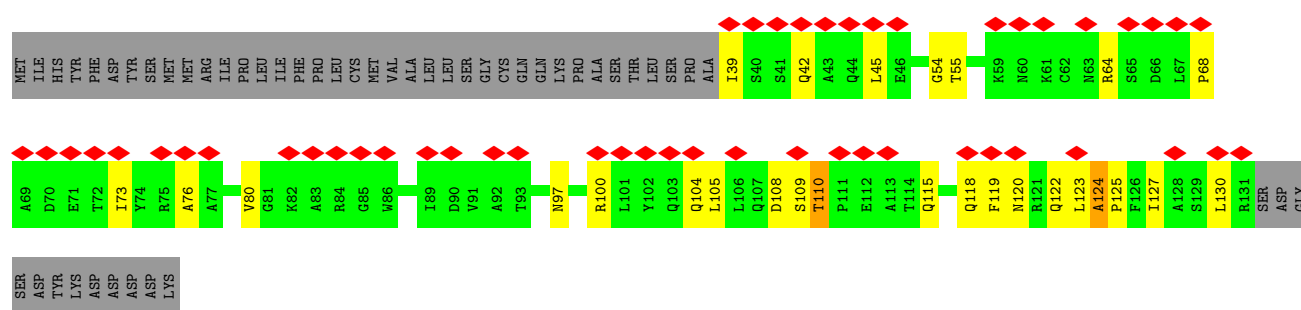




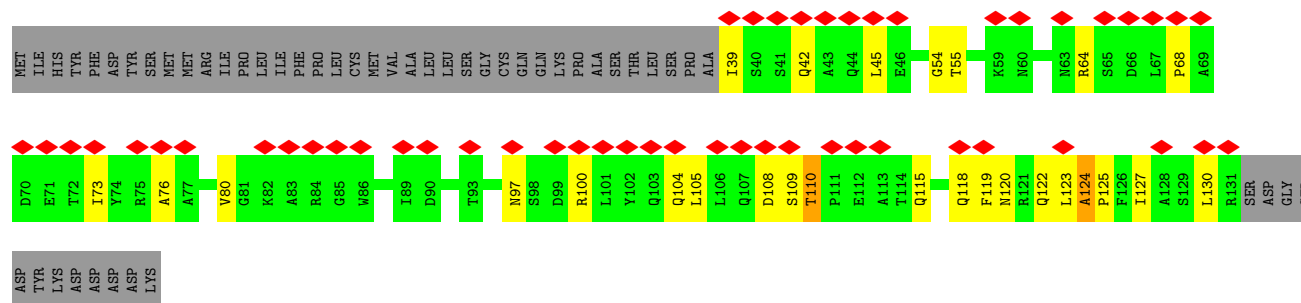
- Molecule 2: Pullulanase



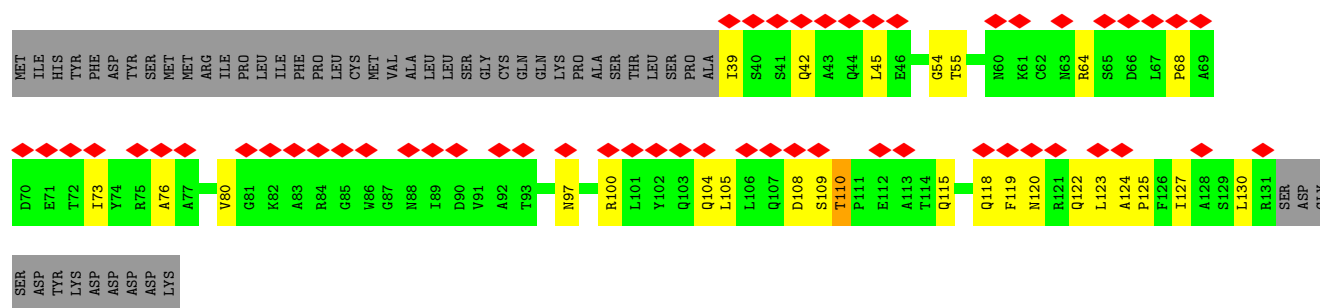
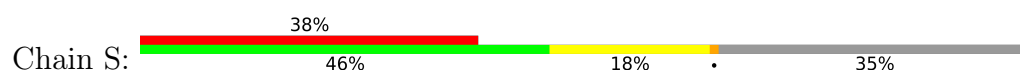
- Molecule 2: Pullulanase



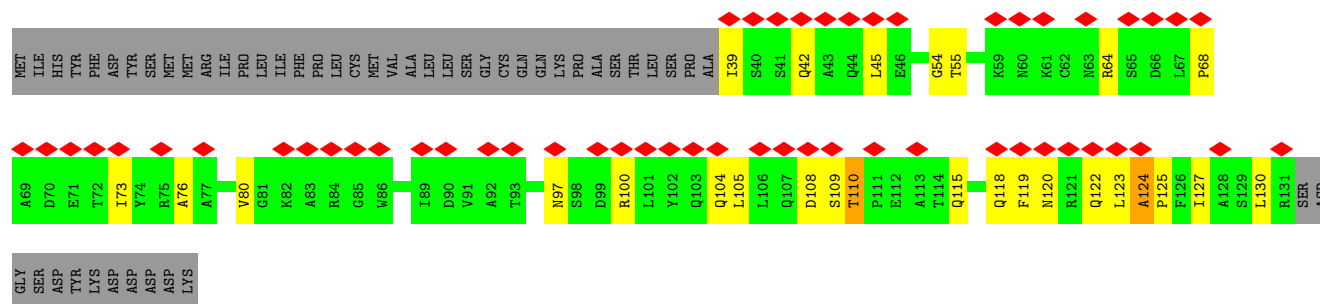
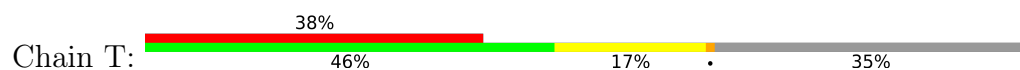
- Molecule 2: Pullulanase



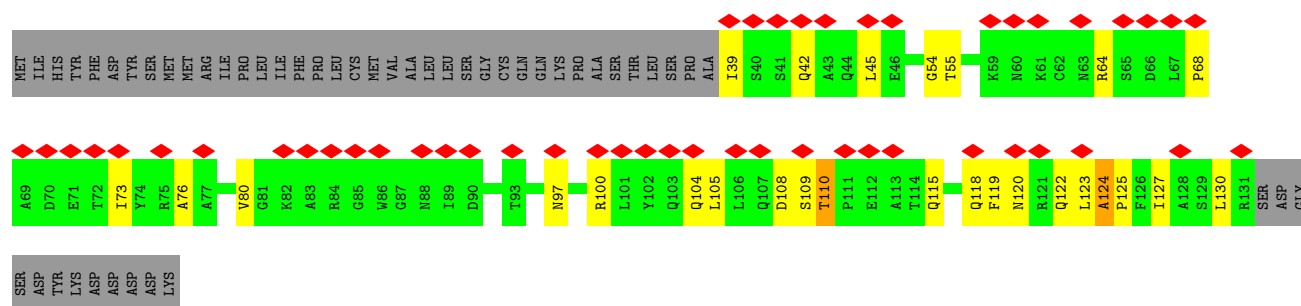
- Molecule 2: Pullulanase



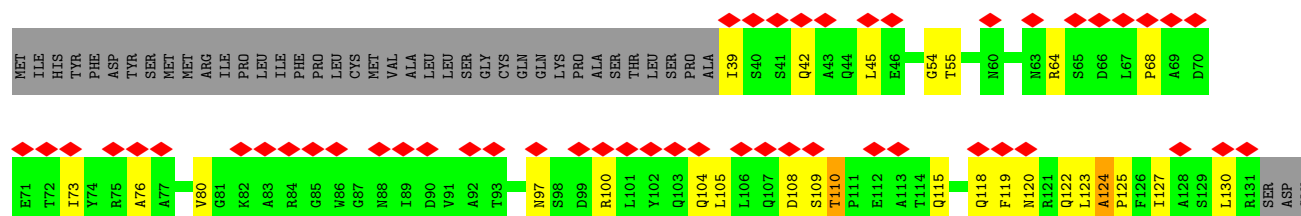
• Molecule 2: Pullulanase



• Molecule 2: Pullulanase



• Molecule 2: Pullulanase



SER
ASP
TYR
LYS
ASP
ASP
ASP
ASP
LYS

● Molecule 2: Pullulanase



MET ILE HIS TYR PHE ASP ASP ASP ASP ASP
SER MET MET MET ARG ILE PRO LEU LEU
PHE PHE PRO LEU LEU CYS MET VAL ALA
LEU LEU SER GLY CYS GLN GLN LYS
PRO ALA SER THR LEU SER PRO ALA
I39 S40 S41 Q42 A43 Q44 L45 E46
G54 T55 N60 K61 C62 M63 R64 S65 D66 L67 P68 A69

D70 E71 T72 I73 Y74 R75 A76 A77 V80
G81 K82 A83 R84 G85 W86 G87 N88 I89 D90
T93 N97 S98 D99 R100 L101 Y102 Q103
Q104 L105 L106 L107 S109 T110
A113 T114 Q115 Q118 F119 M120
N121 Q122 L123 A124 P125 F126
I127 A128 S129 L130 R131 SER
ASP GLY SER

ASP
TYR
LYS
ASP
ASP
ASP
ASP
LYS

● Molecule 2: Pullulanase



MET ILE HIS TYR PHE ASP ASP ASP ASP ASP
SER MET MET MET ARG ILE PRO LEU LEU
PHE PHE PRO LEU LEU CYS MET VAL ALA
LEU LEU SER GLY CYS GLN GLN LYS
PRO ALA SER THR LEU SER PRO ALA
I39 S40 S41 Q42 A43 Q44 L45 E46
G54 T55 K59 N60 K61 C62 M63 R64 S65 D66 L67 P68

A69 D70 E71 T72 I73 Y74 R75 A76 A77 V80
G81 K82 A83 R84 G85 W86 I89 T93 N97
R100 L101 Y102 Q103 Q104 L106 Q107
D108 S109 P111 E112 A113 T114 Q115
Q118 F119 M120 N121 Q122 L123 A124
P125 F126 I127 A128 S129 L130 R131
SER ASP GLY SER ASP

TYR
LYS
ASP
ASP
ASP
ASP
LYS

● Molecule 2: Pullulanase



MET ILE HIS TYR PHE ASP ASP ASP ASP ASP
SER MET MET MET ARG ILE PRO LEU LEU
PHE PHE PRO LEU LEU CYS MET VAL ALA
LEU LEU SER GLY CYS GLN GLN LYS
PRO ALA SER THR LEU SER PRO ALA
I39 S40 S41 Q42 A43 Q44 L45 E46
G54 T55 K59 N60 K61 C62 M63 R64 S65 D66 L67 P68

A69 D70 E71 T72 I73 Y74 R75 A76 A77 V80
G81 K82 A83 R84 G85 W86 G87 N88 I89 V91 A92
T93 N97 R100 L101 Y102 Q103 Q104 L106
L107 D108 S109 T110 A113 T114 Q115
Q118 F119 M120 N121 Q122 L123 A124
P125 F126 I127 A128 S129 L130 R131
SER ASP GLY

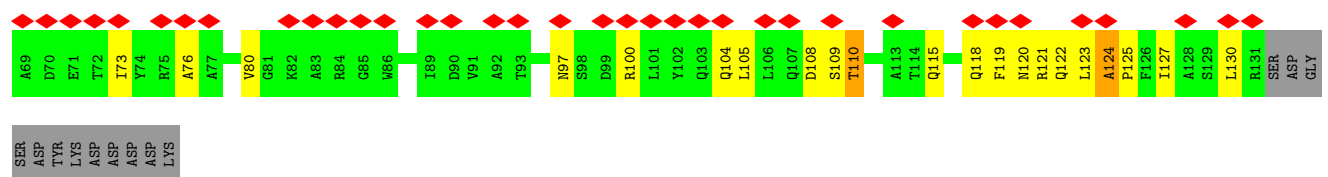
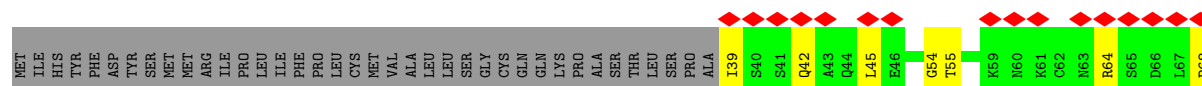
SER
ASP
TYR
LYS
ASP
ASP
ASP
ASP
LYS

● Molecule 2: Pullulanase

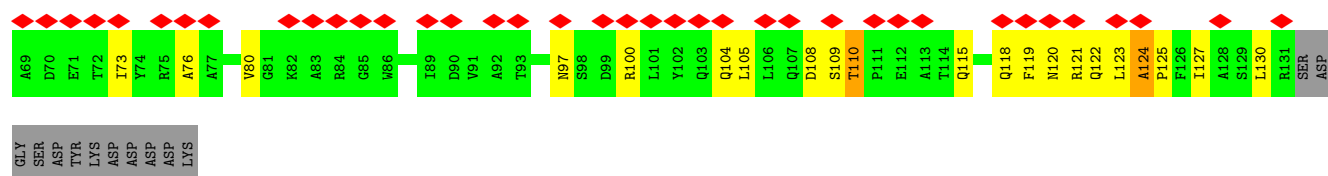
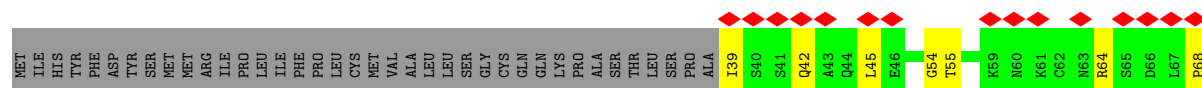


MET ILE HIS TYR PHE ASP ASP ASP ASP ASP
SER MET MET MET ARG ILE PRO LEU LEU
PHE PHE PRO LEU LEU CYS MET VAL ALA
LEU LEU SER GLY CYS GLN GLN LYS
PRO ALA SER THR LEU SER PRO ALA
I39 S40 S41 Q42 A43 Q44 L45 E46
G54 T55 K59 N60 K61 C62 M63 R64 S65 D66 L67 P68

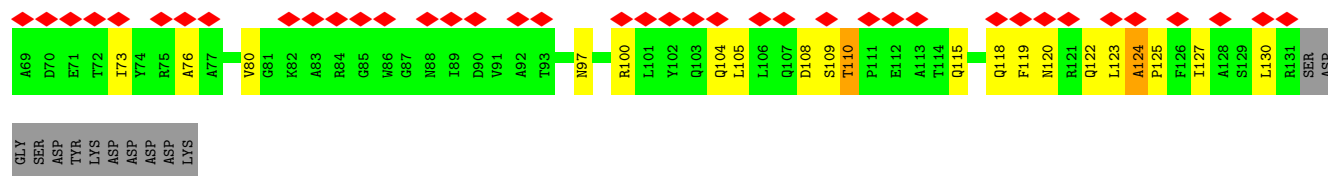
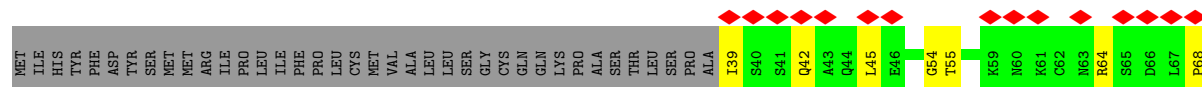
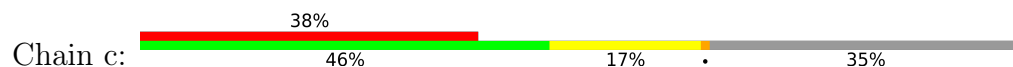
- Molecule 2: Pullulanase



- Molecule 2: Pullulanase



- Molecule 2: Pullulanase

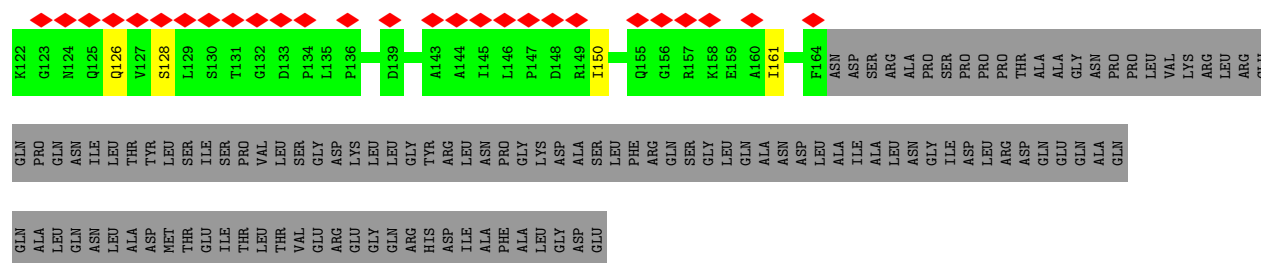


- Molecule 2: Pullulanase

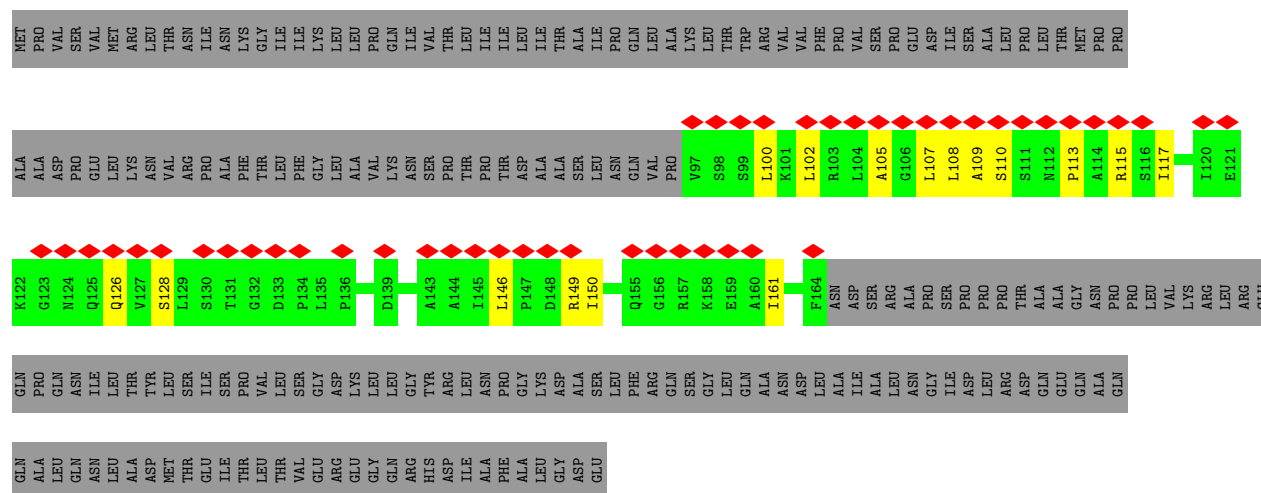




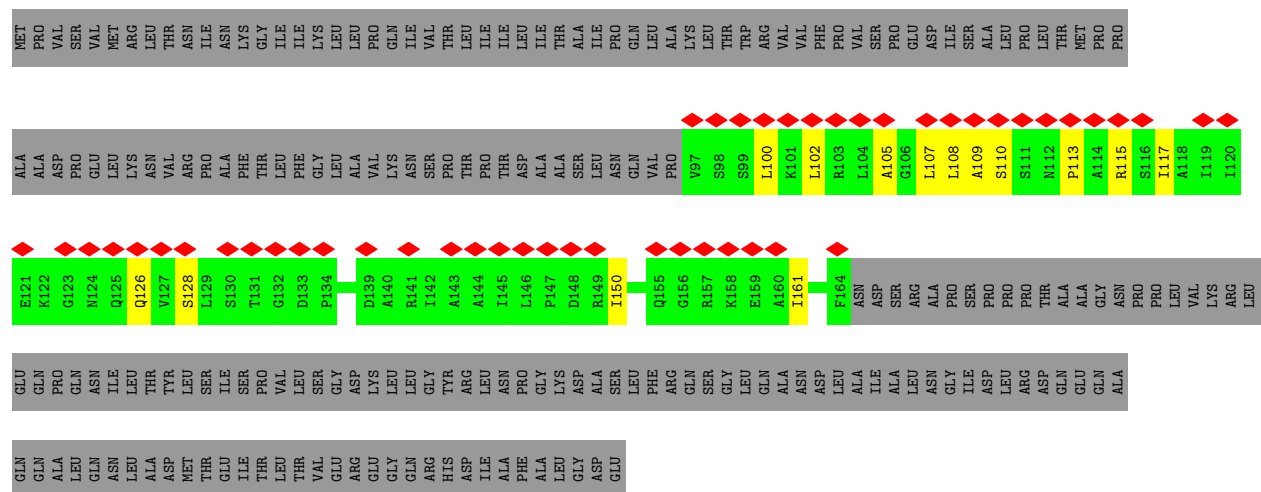
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• Molecule 3: Pectic enzymes secretion protein OutC



• Molecule 3: Pectic enzymes secretion protein OutC



• Molecule 3: Pectic enzymes secretion protein OutC





GLU
GLN
ALA
GLN
GLN
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ASP
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ARG
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ILE
ALA
PHE
ALA
LEU
GLY
ASP
GLU

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C15	Depositor
Number of particles used	7284	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	1.25	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	23.619	Depositor
Minimum map value	-13.503	Depositor
Average map value	0.124	Depositor
Map value standard deviation	0.884	Depositor
Recommended contour level	4.3	Depositor
Map size ($\text{\AA}$)	409.4, 409.4, 409.4	wwPDB
Map dimensions	230, 230, 230	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.78, 1.78, 1.78	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 > 5$	RMSZ	# $ Z > 5$
1	A	0.54	0/4496	0.75	4/6106 (0.1%)
1	B	0.54	0/4496	0.75	4/6106 (0.1%)
1	C	0.54	0/4496	0.75	4/6106 (0.1%)
1	D	0.54	0/4496	0.75	4/6106 (0.1%)
1	E	0.54	0/4496	0.75	4/6106 (0.1%)
1	F	0.54	0/4496	0.75	4/6106 (0.1%)
1	G	0.54	0/4496	0.75	4/6106 (0.1%)
1	H	0.54	0/4496	0.75	4/6106 (0.1%)
1	I	0.54	0/4496	0.75	4/6106 (0.1%)
1	J	0.54	0/4496	0.75	4/6106 (0.1%)
1	K	0.54	0/4496	0.75	4/6106 (0.1%)
1	L	0.54	0/4496	0.75	4/6106 (0.1%)
1	M	0.54	0/4496	0.75	4/6106 (0.1%)
1	N	0.54	0/4496	0.75	4/6106 (0.1%)
1	O	0.54	0/4496	0.75	4/6106 (0.1%)
2	P	0.86	1/729 (0.1%)	1.42	4/987 (0.4%)
2	Q	0.86	1/729 (0.1%)	1.42	4/987 (0.4%)
2	R	0.86	1/729 (0.1%)	1.42	6/987 (0.6%)
2	S	0.87	1/729 (0.1%)	1.42	3/987 (0.3%)
2	T	0.87	1/729 (0.1%)	1.42	4/987 (0.4%)
2	U	0.87	1/729 (0.1%)	1.42	4/987 (0.4%)
2	V	0.87	1/729 (0.1%)	1.42	4/987 (0.4%)
2	W	0.86	1/729 (0.1%)	1.42	4/987 (0.4%)
2	X	0.87	1/729 (0.1%)	1.42	4/987 (0.4%)
2	Y	0.87	1/729 (0.1%)	1.42	4/987 (0.4%)
2	Z	0.87	1/729 (0.1%)	1.42	4/987 (0.4%)
2	a	0.87	1/729 (0.1%)	1.42	4/987 (0.4%)
2	b	0.86	1/729 (0.1%)	1.42	6/987 (0.6%)
2	c	0.87	1/729 (0.1%)	1.42	4/987 (0.4%)
2	d	0.87	1/729 (0.1%)	1.42	4/987 (0.4%)
3	e	0.14	0/518	0.37	0/701
3	f	0.13	0/518	0.37	0/701
3	g	0.14	0/518	0.37	0/701
3	h	0.14	0/518	0.37	0/701

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
3	i	0.13	0/518	0.37	0/701
3	j	0.14	0/518	0.37	0/701
3	k	0.14	0/518	0.37	0/701
3	l	0.14	0/518	0.37	0/701
3	m	0.14	0/518	0.37	0/701
3	n	0.13	0/518	0.37	0/701
3	o	0.14	0/518	0.37	0/701
3	p	0.13	0/518	0.37	0/701
3	q	0.13	0/518	0.37	0/701
3	r	0.14	0/518	0.37	0/701
3	s	0.14	0/518	0.37	0/701
All	All	0.57	15/86145 (0.0%)	0.84	123/116910 (0.1%)

All (15) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	V	100	ARG	CD-NE	5.16	1.53	1.46
2	X	100	ARG	CD-NE	5.15	1.53	1.46
2	a	100	ARG	CD-NE	5.15	1.53	1.46
2	U	100	ARG	CD-NE	5.14	1.53	1.46
2	P	100	ARG	CD-NE	5.13	1.53	1.46
2	b	100	ARG	CD-NE	5.12	1.53	1.46
2	S	100	ARG	CD-NE	5.12	1.53	1.46
2	W	100	ARG	CD-NE	5.12	1.53	1.46
2	Q	100	ARG	CD-NE	5.12	1.53	1.46
2	Y	100	ARG	CD-NE	5.12	1.53	1.46
2	d	100	ARG	CD-NE	5.11	1.53	1.46
2	R	100	ARG	CD-NE	5.11	1.53	1.46
2	T	100	ARG	CD-NE	5.11	1.53	1.46
2	Z	100	ARG	CD-NE	5.09	1.53	1.46
2	c	100	ARG	CD-NE	5.09	1.53	1.46

All (123) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	619	SER	N-CA-C	6.53	119.65	108.02
1	O	619	SER	N-CA-C	6.53	119.64	108.02
1	K	619	SER	N-CA-C	6.52	119.63	108.02
1	H	619	SER	N-CA-C	6.52	119.62	108.02
1	J	619	SER	N-CA-C	6.52	119.62	108.02
1	N	619	SER	N-CA-C	6.52	119.62	108.02
1	B	619	SER	N-CA-C	6.51	119.61	108.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	619	SER	N-CA-C	6.51	119.61	108.02
1	A	619	SER	N-CA-C	6.51	119.61	108.02
1	D	619	SER	N-CA-C	6.51	119.60	108.02
1	G	619	SER	N-CA-C	6.51	119.60	108.02
1	M	619	SER	N-CA-C	6.50	119.60	108.02
1	C	619	SER	N-CA-C	6.50	119.59	108.02
1	L	619	SER	N-CA-C	6.49	119.58	108.02
1	E	619	SER	N-CA-C	6.49	119.57	108.02
1	N	106	THR	N-CA-C	6.05	121.73	113.37
1	M	106	THR	N-CA-C	6.05	121.72	113.37
1	D	106	THR	N-CA-C	6.04	121.71	113.37
1	C	106	THR	N-CA-C	6.04	121.70	113.37
1	I	106	THR	N-CA-C	6.04	121.70	113.37
1	A	106	THR	N-CA-C	6.03	121.70	113.37
1	F	106	THR	N-CA-C	6.03	121.69	113.37
1	E	106	THR	N-CA-C	6.03	121.69	113.37
1	B	106	THR	N-CA-C	6.03	121.69	113.37
1	O	106	THR	N-CA-C	6.03	121.69	113.37
1	L	106	THR	N-CA-C	6.02	121.68	113.37
1	H	106	THR	N-CA-C	6.02	121.68	113.37
1	J	106	THR	N-CA-C	6.02	121.67	113.37
1	K	106	THR	N-CA-C	6.01	121.67	113.37
1	G	106	THR	N-CA-C	6.01	121.66	113.37
1	D	613	LYS	N-CA-C	5.96	117.78	111.28
1	L	613	LYS	N-CA-C	5.96	117.77	111.28
1	M	613	LYS	N-CA-C	5.95	117.77	111.28
1	N	613	LYS	N-CA-C	5.95	117.76	111.28
1	H	613	LYS	N-CA-C	5.95	117.76	111.28
1	A	613	LYS	N-CA-C	5.94	117.76	111.28
1	K	613	LYS	N-CA-C	5.94	117.76	111.28
1	B	613	LYS	N-CA-C	5.94	117.75	111.28
1	F	613	LYS	N-CA-C	5.94	117.75	111.28
1	E	613	LYS	N-CA-C	5.93	117.74	111.28
1	O	613	LYS	N-CA-C	5.93	117.75	111.28
1	J	613	LYS	N-CA-C	5.93	117.74	111.28
1	G	613	LYS	N-CA-C	5.92	117.73	111.28
1	I	613	LYS	N-CA-C	5.92	117.73	111.28
1	C	613	LYS	N-CA-C	5.91	117.73	111.28
2	c	110	THR	CA-C-N	-5.73	114.05	119.89
2	c	110	THR	C-N-CA	-5.73	114.05	119.89
2	Y	110	THR	CA-C-N	-5.72	114.05	119.89
2	Y	110	THR	C-N-CA	-5.72	114.05	119.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	P	110	THR	CA-C-N	-5.72	114.06	119.89
2	P	110	THR	C-N-CA	-5.72	114.06	119.89
2	S	110	THR	CA-C-N	-5.70	114.07	119.89
2	S	110	THR	C-N-CA	-5.70	114.07	119.89
2	V	110	THR	CA-C-N	-5.70	114.07	119.89
2	V	110	THR	C-N-CA	-5.70	114.07	119.89
2	U	110	THR	CA-C-N	-5.70	114.08	119.89
2	U	110	THR	C-N-CA	-5.70	114.08	119.89
2	W	110	THR	CA-C-N	-5.70	114.08	119.89
2	W	110	THR	C-N-CA	-5.70	114.08	119.89
2	R	110	THR	CA-C-N	-5.69	114.09	119.89
2	R	110	THR	C-N-CA	-5.69	114.09	119.89
2	a	110	THR	CA-C-N	-5.69	114.09	119.89
2	a	110	THR	C-N-CA	-5.69	114.09	119.89
2	Q	110	THR	CA-C-N	-5.68	114.09	119.89
2	Q	110	THR	C-N-CA	-5.68	114.09	119.89
2	Z	110	THR	CA-C-N	-5.68	114.09	119.89
2	Z	110	THR	C-N-CA	-5.68	114.09	119.89
2	T	110	THR	CA-C-N	-5.68	114.10	119.89
2	T	110	THR	C-N-CA	-5.68	114.10	119.89
2	X	110	THR	CA-C-N	-5.67	114.11	119.89
2	X	110	THR	C-N-CA	-5.67	114.11	119.89
2	b	110	THR	CA-C-N	-5.66	114.11	119.89
2	b	110	THR	C-N-CA	-5.66	114.11	119.89
2	d	110	THR	CA-C-N	-5.64	114.14	119.89
2	d	110	THR	C-N-CA	-5.64	114.14	119.89
2	U	42	GLN	N-CA-C	5.26	119.62	112.04
2	P	42	GLN	N-CA-C	5.26	119.61	112.04
2	b	42	GLN	N-CA-C	5.25	119.60	112.04
2	T	42	GLN	N-CA-C	5.25	119.59	112.04
2	Y	42	GLN	N-CA-C	5.24	119.59	112.04
2	d	42	GLN	N-CA-C	5.24	119.58	112.04
2	V	42	GLN	N-CA-C	5.24	119.58	112.04
2	S	42	GLN	N-CA-C	5.24	119.58	112.04
2	Z	42	GLN	N-CA-C	5.23	119.58	112.04
2	Q	42	GLN	N-CA-C	5.23	119.57	112.04
2	X	42	GLN	N-CA-C	5.23	119.57	112.04
2	c	42	GLN	N-CA-C	5.22	119.55	112.04
2	R	42	GLN	N-CA-C	5.21	119.54	112.04
2	a	42	GLN	N-CA-C	5.21	119.54	112.04
2	W	42	GLN	N-CA-C	5.20	119.52	112.04
2	Y	124	ALA	O-C-N	5.15	123.82	120.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	218	ALA	N-CA-C	-5.14	105.67	111.28
1	G	218	ALA	N-CA-C	-5.12	105.69	111.28
2	T	124	ALA	O-C-N	5.11	123.80	120.27
1	B	218	ALA	N-CA-C	-5.11	105.71	111.28
1	N	218	ALA	N-CA-C	-5.11	105.71	111.28
1	K	218	ALA	N-CA-C	-5.10	105.72	111.28
1	F	218	ALA	N-CA-C	-5.10	105.72	111.28
1	J	218	ALA	N-CA-C	-5.10	105.72	111.28
2	U	124	ALA	O-C-N	5.10	123.79	120.27
2	b	124	ALA	O-C-N	5.10	123.79	120.27
1	D	218	ALA	N-CA-C	-5.09	105.73	111.28
1	M	218	ALA	N-CA-C	-5.09	105.73	111.28
1	I	218	ALA	N-CA-C	-5.09	105.73	111.28
1	A	218	ALA	N-CA-C	-5.09	105.73	111.28
1	E	218	ALA	N-CA-C	-5.09	105.73	111.28
1	H	218	ALA	N-CA-C	-5.09	105.74	111.28
2	X	124	ALA	O-C-N	5.08	123.78	120.27
2	Z	124	ALA	O-C-N	5.08	123.78	120.27
1	O	218	ALA	N-CA-C	-5.08	105.75	111.28
2	W	124	ALA	O-C-N	5.08	123.77	120.27
2	P	124	ALA	O-C-N	5.07	123.77	120.27
2	Q	124	ALA	O-C-N	5.07	123.77	120.27
1	C	218	ALA	N-CA-C	-5.06	105.77	111.28
2	R	124	ALA	O-C-N	5.04	123.74	120.27
2	d	124	ALA	O-C-N	5.03	123.74	120.27
2	c	124	ALA	O-C-N	5.02	123.73	120.27
2	V	124	ALA	O-C-N	5.01	123.73	120.27
2	a	124	ALA	O-C-N	5.01	123.73	120.27
2	R	124	ALA	CA-C-N	-5.00	114.03	119.24
2	R	124	ALA	C-N-CA	-5.00	114.03	119.24
2	b	124	ALA	CA-C-N	-5.00	114.04	119.24
2	b	124	ALA	C-N-CA	-5.00	114.04	119.24

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	4447	0	4545	438	0
1	B	4447	0	4545	430	0
1	C	4447	0	4545	441	0
1	D	4447	0	4545	437	0
1	E	4447	0	4545	429	0
1	F	4447	0	4545	430	0
1	G	4447	0	4545	440	0
1	H	4447	0	4545	442	0
1	I	4447	0	4545	441	0
1	J	4447	0	4545	448	0
1	K	4447	0	4545	438	0
1	L	4447	0	4545	430	0
1	M	4447	0	4545	431	0
1	N	4447	0	4545	438	0
1	O	4447	0	4545	438	0
2	P	720	0	709	43	0
2	Q	720	0	709	42	0
2	R	720	0	709	43	0
2	S	720	0	709	44	0
2	T	720	0	709	43	0
2	U	720	0	709	44	0
2	V	720	0	709	45	0
2	W	720	0	709	45	0
2	X	720	0	709	44	0
2	Y	720	0	709	44	0
2	Z	720	0	709	45	0
2	a	720	0	709	44	0
2	b	720	0	709	45	0
2	c	720	0	709	43	0
2	d	720	0	709	44	0
3	e	512	0	546	32	0
3	f	512	0	546	31	0
3	g	512	0	546	31	0
3	h	512	0	546	33	0
3	i	512	0	546	31	0
3	j	512	0	546	32	0
3	k	512	0	546	33	0
3	l	512	0	546	31	0
3	m	512	0	546	33	0
3	n	512	0	546	31	0
3	o	512	0	546	30	0
3	p	512	0	546	30	0
3	q	512	0	546	33	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	r	512	0	546	31	0
3	s	512	0	546	31	0
All	All	85185	0	87000	6151	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 36.

All (6151) 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:H:45:ASN:CB	3:l:108:LEU:HD21	1.69	1.23
1:B:45:ASN:CB	3:g:108:LEU:HD21	1.69	1.22
1:C:45:ASN:CB	3:e:108:LEU:HD21	1.69	1.22
1:G:45:ASN:CB	3:k:108:LEU:HD21	1.69	1.22
1:I:45:ASN:CB	3:m:108:LEU:HD21	1.69	1.22
1:A:45:ASN:CB	3:f:108:LEU:HD21	1.69	1.22
1:D:45:ASN:CB	3:h:108:LEU:HD21	1.69	1.22
1:F:45:ASN:CB	3:j:108:LEU:HD21	1.69	1.21
1:J:45:ASN:CB	3:n:108:LEU:HD21	1.69	1.21
1:O:45:ASN:CB	3:s:108:LEU:HD21	1.69	1.21
1:E:45:ASN:CB	3:i:108:LEU:HD21	1.69	1.20
1:K:45:ASN:CB	3:o:108:LEU:HD21	1.69	1.20
1:G:45:ASN:HB2	3:k:108:LEU:CD2	1.72	1.20
1:H:45:ASN:HB2	3:l:108:LEU:CD2	1.72	1.20
1:B:45:ASN:HB2	3:g:108:LEU:CD2	1.72	1.20
1:N:45:ASN:CB	3:r:108:LEU:HD21	1.69	1.20
1:A:45:ASN:HB2	3:f:108:LEU:CD2	1.72	1.20
1:I:45:ASN:HB2	3:m:108:LEU:CD2	1.72	1.20
1:C:45:ASN:HB2	3:e:108:LEU:CD2	1.72	1.20
1:F:45:ASN:HB2	3:j:108:LEU:CD2	1.72	1.19
1:L:45:ASN:CB	3:p:108:LEU:HD21	1.70	1.19
1:M:45:ASN:CB	3:q:108:LEU:HD21	1.69	1.19
1:O:45:ASN:HB2	3:s:108:LEU:CD2	1.72	1.19
1:J:45:ASN:HB2	3:n:108:LEU:CD2	1.72	1.19
1:D:45:ASN:HB2	3:h:108:LEU:CD2	1.72	1.19
1:N:45:ASN:HB2	3:r:108:LEU:CD2	1.72	1.19
1:E:45:ASN:HB2	3:i:108:LEU:CD2	1.72	1.18
1:M:45:ASN:HB2	3:q:108:LEU:CD2	1.72	1.18
1:K:45:ASN:HB2	3:o:108:LEU:CD2	1.72	1.18
1:L:45:ASN:HB2	3:p:108:LEU:CD2	1.72	1.18
1:I:477:ARG:NH1	1:J:459:VAL:HB	1.60	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:477:ARG:NH1	1:H:459:VAL:HB	1.61	1.15
1:I:477:ARG:NH1	1:J:459:VAL:CB	2.11	1.14
1:C:477:ARG:NH1	1:D:459:VAL:HB	1.61	1.13
1:B:477:ARG:NH1	1:C:459:VAL:HB	1.64	1.13
1:N:477:ARG:NH1	1:O:459:VAL:HB	1.64	1.12
1:C:477:ARG:NH1	1:D:459:VAL:CB	2.12	1.12
1:G:477:ARG:NH1	1:H:459:VAL:CB	2.12	1.12
1:N:477:ARG:NH1	1:O:459:VAL:CB	2.13	1.12
1:L:477:ARG:NH1	1:M:459:VAL:HB	1.65	1.10
1:A:538:THR:OG1	1:O:628:LEU:HB3	1.52	1.09
1:B:477:ARG:NH1	1:C:459:VAL:CB	2.15	1.09
1:L:477:ARG:NH1	1:M:459:VAL:CB	2.15	1.09
1:M:477:ARG:NH1	1:N:459:VAL:HB	1.67	1.09
1:J:477:ARG:NH1	1:K:459:VAL:HB	1.68	1.09
1:E:477:ARG:NH1	1:F:459:VAL:CB	2.16	1.09
1:A:459:VAL:HB	1:O:477:ARG:NH1	1.67	1.08
1:A:477:ARG:NH1	1:B:459:VAL:HB	1.68	1.08
1:A:477:ARG:NH1	1:B:459:VAL:CB	2.16	1.08
1:J:477:ARG:NH1	1:K:459:VAL:CB	2.17	1.08
1:D:477:ARG:NH1	1:E:459:VAL:HB	1.69	1.07
1:E:477:ARG:NH1	1:F:459:VAL:HB	1.68	1.07
1:H:477:ARG:NH1	1:I:459:VAL:CB	2.18	1.07
1:A:459:VAL:CB	1:O:477:ARG:NH1	2.17	1.07
1:H:477:ARG:NH1	1:I:459:VAL:HB	1.69	1.07
1:K:477:ARG:NH1	1:L:459:VAL:HB	1.69	1.07
1:J:45:ASN:HB2	3:n:108:LEU:HD21	1.29	1.07
1:O:45:ASN:HB2	3:s:108:LEU:HD21	1.29	1.06
1:K:477:ARG:NH1	1:L:459:VAL:CB	2.19	1.06
1:N:45:ASN:HB2	3:r:108:LEU:HD21	1.29	1.06
1:A:45:ASN:HB2	3:f:108:LEU:HD21	1.29	1.06
1:D:477:ARG:NH1	1:E:459:VAL:CB	2.19	1.06
1:I:477:ARG:HH12	1:J:459:VAL:HB	1.16	1.06
1:M:477:ARG:NH1	1:N:459:VAL:CB	2.18	1.06
1:F:477:ARG:NH1	1:G:459:VAL:HB	1.69	1.05
1:B:628:LEU:HB3	1:C:538:THR:OG1	1.54	1.05
1:I:628:LEU:HB3	1:J:538:THR:OG1	1.55	1.05
1:F:477:ARG:NH1	1:G:459:VAL:CB	2.20	1.05
1:M:45:ASN:HB2	3:q:108:LEU:HD21	1.29	1.05
1:B:45:ASN:HB2	3:g:108:LEU:HD21	1.29	1.04
1:C:628:LEU:HB3	1:D:538:THR:OG1	1.56	1.04
1:I:45:ASN:HB2	3:m:108:LEU:HD21	1.29	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:628:LEU:HB3	1:H:538:THR:OG1	1.56	1.04
1:K:628:LEU:HB3	1:L:538:THR:OG1	1.56	1.04
1:N:628:LEU:HB3	1:O:538:THR:OG1	1.58	1.04
1:D:628:LEU:HB3	1:E:538:THR:OG1	1.58	1.04
1:F:460:LEU:HA	1:F:475:VAL:HG12	1.04	1.04
1:G:460:LEU:HA	1:G:475:VAL:HG12	1.04	1.03
1:E:460:LEU:HA	1:E:475:VAL:HG12	1.04	1.03
1:F:628:LEU:HB3	1:G:538:THR:OG1	1.58	1.03
1:H:460:LEU:HA	1:H:475:VAL:HG12	1.04	1.03
1:H:628:LEU:HB3	1:I:538:THR:OG1	1.57	1.03
1:C:45:ASN:HB2	3:e:108:LEU:HD21	1.29	1.03
1:D:460:LEU:HA	1:D:475:VAL:HG12	1.04	1.03
1:H:45:ASN:HB2	3:l:108:LEU:HD21	1.29	1.03
1:I:460:LEU:HA	1:I:475:VAL:HG12	1.04	1.03
1:K:103:ASP:HB3	1:K:105:LYS:HG2	1.40	1.03
1:L:45:ASN:HB2	3:p:108:LEU:HD21	1.29	1.03
1:L:103:ASP:HB3	1:L:105:LYS:HG2	1.40	1.03
1:L:628:LEU:HB3	1:M:538:THR:OG1	1.56	1.03
1:E:477:ARG:NH1	1:F:459:VAL:CG1	2.22	1.03
1:I:477:ARG:NH1	1:J:459:VAL:CG1	2.22	1.02
1:C:477:ARG:NH1	1:D:459:VAL:CG1	2.23	1.02
1:I:477:ARG:CZ	1:J:459:VAL:HG11	1.89	1.02
1:J:460:LEU:HA	1:J:475:VAL:HG12	1.04	1.02
1:K:460:LEU:HA	1:K:475:VAL:HG12	1.04	1.02
1:M:628:LEU:HB3	1:N:538:THR:OG1	1.59	1.02
1:C:460:LEU:HA	1:C:475:VAL:HG12	1.04	1.02
1:D:103:ASP:HB3	1:D:105:LYS:HG2	1.40	1.02
1:I:103:ASP:HB3	1:I:105:LYS:HG2	1.40	1.02
1:B:103:ASP:HB3	1:B:105:LYS:HG2	1.40	1.02
1:G:45:ASN:HB2	3:k:108:LEU:HD21	1.29	1.02
1:G:477:ARG:HH12	1:H:459:VAL:HB	1.18	1.02
1:L:460:LEU:HA	1:L:475:VAL:HG12	1.04	1.02
1:M:103:ASP:HB3	1:M:105:LYS:HG2	1.40	1.02
1:N:103:ASP:HB3	1:N:105:LYS:HG2	1.40	1.02
1:C:477:ARG:CZ	1:D:459:VAL:HG11	1.90	1.01
1:D:45:ASN:HB2	3:h:108:LEU:HD21	1.29	1.01
1:E:628:LEU:HB3	1:F:538:THR:OG1	1.60	1.01
1:G:477:ARG:CZ	1:H:459:VAL:HG11	1.90	1.01
1:N:477:ARG:NH1	1:O:459:VAL:CG1	2.21	1.01
1:E:103:ASP:HB3	1:E:105:LYS:HG2	1.40	1.01
1:J:103:ASP:HB3	1:J:105:LYS:HG2	1.40	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:460:LEU:HA	1:B:475:VAL:HG12	1.04	1.01
1:E:477:ARG:NH1	1:F:459:VAL:HG11	1.75	1.01
1:I:477:ARG:HH12	1:J:459:VAL:CB	1.71	1.01
1:M:460:LEU:HA	1:M:475:VAL:HG12	1.04	1.01
1:E:45:ASN:HB2	3:i:108:LEU:HD21	1.29	1.01
1:F:45:ASN:HB2	3:j:108:LEU:HD21	1.29	1.01
1:H:103:ASP:HB3	1:H:105:LYS:HG2	1.39	1.01
1:N:460:LEU:HA	1:N:475:VAL:HG12	1.04	1.01
1:A:460:LEU:HA	1:A:475:VAL:HG12	1.04	1.01
1:A:477:ARG:HH12	1:B:459:VAL:CB	1.73	1.01
1:O:460:LEU:HA	1:O:475:VAL:HG12	1.04	1.01
1:K:45:ASN:HB2	3:o:108:LEU:HD21	1.29	1.00
1:L:477:ARG:HH12	1:M:459:VAL:HB	1.19	1.00
1:B:477:ARG:HH12	1:C:459:VAL:HB	1.19	1.00
1:N:477:ARG:CZ	1:O:459:VAL:HG11	1.90	1.00
1:G:103:ASP:HB3	1:G:105:LYS:HG2	1.40	1.00
1:O:103:ASP:HB3	1:O:105:LYS:HG2	1.39	1.00
1:G:477:ARG:NH1	1:H:459:VAL:CG1	2.23	1.00
1:C:103:ASP:HB3	1:C:105:LYS:HG2	1.40	1.00
1:E:477:ARG:CZ	1:F:459:VAL:HG11	1.92	1.00
1:B:477:ARG:NH1	1:C:459:VAL:CG1	2.25	0.99
1:J:477:ARG:NH1	1:K:459:VAL:CG1	2.25	0.99
1:B:477:ARG:CZ	1:C:459:VAL:HG11	1.93	0.99
1:K:44:LYS:CD	3:o:117:ILE:HD11	1.93	0.99
1:F:103:ASP:HB3	1:F:105:LYS:HG2	1.40	0.99
1:J:628:LEU:HB3	1:K:538:THR:OG1	1.62	0.99
1:H:44:LYS:CD	3:l:117:ILE:HD11	1.93	0.99
1:E:477:ARG:HH12	1:F:459:VAL:HB	1.23	0.99
1:L:477:ARG:CZ	1:M:459:VAL:HG11	1.93	0.99
1:L:44:LYS:CD	3:p:117:ILE:HD11	1.93	0.99
1:A:628:LEU:HB3	1:B:538:THR:OG1	1.63	0.98
1:L:477:ARG:NH1	1:M:459:VAL:CG1	2.25	0.98
1:N:44:LYS:CD	3:r:117:ILE:HD11	1.93	0.98
1:N:477:ARG:NH1	1:O:459:VAL:HG11	1.76	0.98
1:D:477:ARG:NH1	1:E:459:VAL:CG1	2.27	0.98
1:E:477:ARG:HH12	1:F:459:VAL:CG1	1.76	0.98
1:M:477:ARG:HH12	1:N:459:VAL:HB	1.21	0.98
1:J:477:ARG:NH1	1:K:459:VAL:HG11	1.78	0.98
1:M:44:LYS:CD	3:q:117:ILE:HD11	1.93	0.98
1:A:103:ASP:HB3	1:A:105:LYS:HG2	1.40	0.98
1:A:477:ARG:NH1	1:B:459:VAL:CG1	2.26	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:44:LYS:CD	3:k:117:ILE:HD11	1.93	0.98
1:H:477:ARG:NH1	1:I:459:VAL:CG1	2.26	0.98
1:I:44:LYS:CD	3:m:117:ILE:HD11	1.93	0.98
1:A:459:VAL:CG1	1:O:477:ARG:NH1	2.25	0.98
1:J:44:LYS:CD	3:n:117:ILE:HD11	1.93	0.98
1:O:44:LYS:CD	3:s:117:ILE:HD11	1.93	0.98
1:A:459:VAL:CB	1:O:477:ARG:HH12	1.76	0.98
1:E:44:LYS:CD	3:i:117:ILE:HD11	1.93	0.98
1:H:477:ARG:NH1	1:I:459:VAL:HG11	1.79	0.98
1:I:477:ARG:NH1	1:J:459:VAL:HG11	1.79	0.98
1:J:477:ARG:CZ	1:K:459:VAL:HG11	1.94	0.98
1:B:477:ARG:HH12	1:C:459:VAL:CB	1.75	0.98
1:B:44:LYS:CD	3:g:117:ILE:HD11	1.93	0.98
1:A:459:VAL:HG11	1:O:477:ARG:CZ	1.93	0.97
1:A:459:VAL:HG11	1:O:477:ARG:NH1	1.79	0.97
1:A:477:ARG:CZ	1:B:459:VAL:HG11	1.94	0.97
1:K:477:ARG:NH1	1:L:459:VAL:CG1	2.27	0.97
1:C:477:ARG:HH12	1:D:459:VAL:CB	1.73	0.97
1:N:477:ARG:HH12	1:O:459:VAL:CG1	1.77	0.97
1:D:148:ASN:HB2	1:D:152:GLY:HA3	1.46	0.97
1:E:148:ASN:HB2	1:E:152:GLY:HA3	1.46	0.97
1:F:44:LYS:CD	3:j:117:ILE:HD11	1.93	0.97
1:L:477:ARG:HH12	1:M:459:VAL:CB	1.74	0.97
1:A:477:ARG:NH1	1:B:459:VAL:HG11	1.79	0.97
1:E:477:ARG:HH12	1:F:459:VAL:CB	1.74	0.97
1:C:44:LYS:CD	3:e:117:ILE:HD11	1.93	0.97
1:C:148:ASN:HB2	1:C:152:GLY:HA3	1.46	0.97
1:C:477:ARG:HH12	1:D:459:VAL:HB	1.19	0.97
1:D:44:LYS:CD	3:h:117:ILE:HD11	1.93	0.97
1:F:148:ASN:HB2	1:F:152:GLY:HA3	1.46	0.97
1:H:477:ARG:CZ	1:I:459:VAL:HG11	1.95	0.97
1:M:148:ASN:HB2	1:M:152:GLY:HA3	1.46	0.96
1:A:44:LYS:CD	3:f:117:ILE:HD11	1.93	0.96
1:G:477:ARG:HH12	1:H:459:VAL:CB	1.72	0.96
1:J:477:ARG:HH12	1:K:459:VAL:HB	1.23	0.96
1:M:477:ARG:NH1	1:N:459:VAL:CG1	2.28	0.96
1:N:148:ASN:HB2	1:N:152:GLY:HA3	1.46	0.96
1:C:477:ARG:NH1	1:D:459:VAL:HG11	1.79	0.96
1:A:459:VAL:HB	1:O:477:ARG:HH12	1.23	0.96
1:J:477:ARG:HH12	1:K:459:VAL:CB	1.75	0.96
1:L:148:ASN:HB2	1:L:152:GLY:HA3	1.46	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:477:ARG:HH12	1:E:459:VAL:CB	1.77	0.96
1:B:148:ASN:HB2	1:B:152:GLY:HA3	1.46	0.96
1:I:477:ARG:HH12	1:J:459:VAL:CG1	1.79	0.96
1:B:639:ALA:HB1	2:R:104:GLN:HB3	1.47	0.96
1:G:148:ASN:HB2	1:G:152:GLY:HA3	1.46	0.96
1:K:477:ARG:CZ	1:L:459:VAL:HG11	1.96	0.96
1:G:477:ARG:NH1	1:H:459:VAL:HG11	1.79	0.96
1:C:639:ALA:HB1	2:P:104:GLN:HB3	1.47	0.95
1:H:148:ASN:HB2	1:H:152:GLY:HA3	1.45	0.95
1:M:477:ARG:CZ	1:N:459:VAL:HG11	1.96	0.95
1:M:477:ARG:HH12	1:N:459:VAL:CB	1.76	0.95
1:A:477:ARG:HH12	1:B:459:VAL:HB	1.20	0.95
1:A:639:ALA:HB1	2:Q:104:GLN:HB3	1.48	0.95
1:D:477:ARG:CZ	1:E:459:VAL:HG11	1.95	0.95
1:F:477:ARG:HH12	1:G:459:VAL:CB	1.77	0.95
1:B:477:ARG:NH1	1:C:459:VAL:HG11	1.81	0.95
1:N:65:TYR:OH	3:q:113:PRO:CB	2.13	0.95
1:O:148:ASN:HB2	1:O:152:GLY:HA3	1.46	0.95
1:A:477:ARG:HH12	1:B:459:VAL:CG1	1.79	0.95
1:D:477:ARG:NH1	1:E:459:VAL:HG11	1.80	0.95
1:G:477:ARG:HH12	1:H:459:VAL:CG1	1.79	0.95
1:L:477:ARG:NH1	1:M:459:VAL:HG11	1.80	0.95
1:I:148:ASN:HB2	1:I:152:GLY:HA3	1.46	0.95
1:K:148:ASN:HB2	1:K:152:GLY:HA3	1.46	0.95
1:K:477:ARG:NH1	1:L:459:VAL:HG11	1.80	0.95
1:D:639:ALA:HB1	2:S:104:GLN:HB3	1.48	0.94
1:F:477:ARG:HH12	1:G:459:VAL:HB	1.22	0.94
1:A:148:ASN:HB2	1:A:152:GLY:HA3	1.46	0.94
1:H:477:ARG:HH12	1:I:459:VAL:CB	1.75	0.94
1:H:477:ARG:HH12	1:I:459:VAL:HB	1.23	0.94
1:I:460:LEU:HA	1:I:475:VAL:CG1	1.98	0.94
1:O:639:ALA:HB1	2:d:104:GLN:HB3	1.47	0.94
1:H:460:LEU:HA	1:H:475:VAL:CG1	1.98	0.94
1:D:477:ARG:HH12	1:E:459:VAL:CG1	1.81	0.94
1:F:477:ARG:CZ	1:G:459:VAL:HG11	1.98	0.94
1:H:65:TYR:OH	3:k:113:PRO:CB	2.15	0.94
1:I:639:ALA:HB1	2:X:104:GLN:HB3	1.48	0.94
1:K:639:ALA:HB1	2:Z:104:GLN:HB3	1.47	0.94
1:F:477:ARG:NH1	1:G:459:VAL:CG1	2.30	0.94
1:G:460:LEU:HA	1:G:475:VAL:CG1	1.98	0.94
1:H:639:ALA:HB1	2:W:104:GLN:HB3	1.48	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:44:LYS:HD3	3:o:117:ILE:CD1	1.98	0.94
1:F:460:LEU:HA	1:F:475:VAL:CG1	1.97	0.94
1:B:44:LYS:HD3	3:g:117:ILE:CD1	1.98	0.94
1:C:44:LYS:HD3	3:e:117:ILE:CD1	1.98	0.94
1:D:44:LYS:HD3	3:h:117:ILE:CD1	1.98	0.94
1:E:460:LEU:HA	1:E:475:VAL:CG1	1.98	0.94
1:J:639:ALA:HB1	2:Y:104:GLN:HB3	1.48	0.94
1:K:477:ARG:HH12	1:L:459:VAL:HB	1.24	0.94
1:M:477:ARG:NH1	1:N:459:VAL:HG11	1.81	0.94
1:J:148:ASN:HB2	1:J:152:GLY:HA3	1.46	0.94
1:L:639:ALA:HB1	2:a:104:GLN:HB3	1.48	0.94
1:A:44:LYS:HD3	3:f:117:ILE:CD1	1.98	0.94
1:J:477:ARG:HH12	1:K:459:VAL:CG1	1.79	0.94
1:E:44:LYS:HD3	3:i:117:ILE:CD1	1.98	0.93
1:G:639:ALA:HB1	2:V:104:GLN:HB3	1.48	0.93
1:H:44:LYS:HD3	3:l:117:ILE:CD1	1.98	0.93
1:D:460:LEU:HA	1:D:475:VAL:CG1	1.98	0.93
1:K:477:ARG:HH12	1:L:459:VAL:CG1	1.82	0.93
1:F:477:ARG:NH1	1:G:459:VAL:HG11	1.84	0.93
1:L:477:ARG:HH12	1:M:459:VAL:CG1	1.80	0.93
1:F:44:LYS:HD3	3:j:117:ILE:CD1	1.98	0.93
1:A:459:VAL:CG1	1:O:477:ARG:HH12	1.80	0.93
1:C:460:LEU:HA	1:C:475:VAL:CG1	1.97	0.93
1:J:44:LYS:HD3	3:n:117:ILE:CD1	1.98	0.93
1:N:44:LYS:HD3	3:r:117:ILE:CD1	1.98	0.93
1:O:44:LYS:HD3	3:s:117:ILE:CD1	1.98	0.93
1:B:477:ARG:HH12	1:C:459:VAL:CG1	1.81	0.93
1:H:477:ARG:HH12	1:I:459:VAL:CG1	1.79	0.93
1:K:477:ARG:HH12	1:L:459:VAL:CB	1.78	0.93
1:E:639:ALA:HB1	2:T:104:GLN:HB3	1.48	0.93
1:F:639:ALA:HB1	2:U:104:GLN:HB3	1.47	0.93
1:M:477:ARG:HH12	1:N:459:VAL:CG1	1.82	0.93
1:B:460:LEU:HA	1:B:475:VAL:CG1	1.97	0.92
1:G:44:LYS:HD3	3:k:117:ILE:CD1	1.98	0.92
1:M:44:LYS:HD3	3:q:117:ILE:CD1	1.98	0.92
1:M:639:ALA:HB1	2:b:104:GLN:HB3	1.48	0.92
1:N:639:ALA:HB1	2:c:104:GLN:HB3	1.48	0.92
1:I:44:LYS:HD3	3:m:117:ILE:CD1	1.98	0.92
1:O:45:ASN:HB2	3:s:108:LEU:HD23	1.52	0.92
2:P:76:ALA:CB	2:P:130:LEU:HD12	2.00	0.92
2:R:76:ALA:CB	2:R:130:LEU:HD12	2.00	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:45:ASN:HB2	3:r:108:LEU:HD23	1.52	0.92
1:L:44:LYS:HD3	3:p:117:ILE:CD1	1.98	0.92
2:Q:76:ALA:CB	2:Q:130:LEU:HD12	2.00	0.92
1:A:460:LEU:HA	1:A:475:VAL:CG1	1.98	0.92
1:C:477:ARG:HH12	1:D:459:VAL:CG1	1.80	0.92
2:S:76:ALA:CB	2:S:130:LEU:HD12	2.00	0.92
1:I:45:ASN:HB2	3:m:108:LEU:HD23	1.52	0.91
1:A:45:ASN:HB2	3:f:108:LEU:HD23	1.52	0.91
2:W:76:ALA:CB	2:W:130:LEU:HD12	2.00	0.91
2:a:76:ALA:CB	2:a:130:LEU:HD12	2.00	0.91
1:J:45:ASN:HB2	3:n:108:LEU:HD23	1.52	0.91
1:O:460:LEU:HA	1:O:475:VAL:CG1	1.98	0.91
2:V:76:ALA:CB	2:V:130:LEU:HD12	2.00	0.91
2:X:76:ALA:CB	2:X:130:LEU:HD12	2.00	0.91
2:Z:76:ALA:CB	2:Z:130:LEU:HD12	2.00	0.91
2:b:76:ALA:CB	2:b:130:LEU:HD12	2.00	0.91
1:M:45:ASN:HB2	3:q:108:LEU:HD23	1.52	0.91
2:Y:76:ALA:CB	2:Y:130:LEU:HD12	2.00	0.91
1:H:45:ASN:HB2	3:l:108:LEU:HD23	1.52	0.91
1:N:477:ARG:HH12	1:O:459:VAL:CB	1.74	0.91
2:U:76:ALA:CB	2:U:130:LEU:HD12	2.00	0.91
1:C:65:TYR:OH	3:g:113:PRO:CB	2.19	0.91
1:N:460:LEU:HA	1:N:475:VAL:CG1	1.97	0.91
2:d:76:ALA:CB	2:d:130:LEU:HD12	2.00	0.91
1:D:477:ARG:HH12	1:E:459:VAL:HB	1.24	0.91
1:E:65:TYR:OH	3:h:113:PRO:CB	2.19	0.91
1:N:477:ARG:HH12	1:O:459:VAL:HB	1.21	0.91
1:G:44:LYS:HD3	3:k:117:ILE:HD11	1.53	0.91
2:c:76:ALA:CB	2:c:130:LEU:HD12	2.00	0.91
1:A:44:LYS:HD3	3:f:117:ILE:HD11	1.53	0.91
1:K:45:ASN:HB2	3:o:108:LEU:HD23	1.52	0.91
1:G:45:ASN:HB2	3:k:108:LEU:HD23	1.52	0.91
2:T:76:ALA:CB	2:T:130:LEU:HD12	2.00	0.91
1:O:44:LYS:HD3	3:s:117:ILE:HD11	1.53	0.90
1:F:45:ASN:HB2	3:j:108:LEU:HD23	1.52	0.90
1:H:44:LYS:HD3	3:l:117:ILE:HD11	1.53	0.90
1:M:460:LEU:HA	1:M:475:VAL:CG1	1.97	0.90
1:E:460:LEU:CA	1:E:475:VAL:HG12	1.99	0.90
1:N:44:LYS:HD3	3:r:117:ILE:HD11	1.53	0.90
1:E:45:ASN:HB2	3:i:108:LEU:HD23	1.52	0.90
1:B:44:LYS:HD3	3:g:117:ILE:HD11	1.53	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:45:ASN:HB2	3:h:108:LEU:HD23	1.52	0.90
1:H:460:LEU:CA	1:H:475:VAL:HG12	1.99	0.90
1:L:460:LEU:HA	1:L:475:VAL:CG1	1.98	0.90
1:B:45:ASN:HB2	3:g:108:LEU:HD23	1.52	0.90
1:K:65:TYR:OH	3:n:113:PRO:CB	2.19	0.89
1:I:44:LYS:HD3	3:m:117:ILE:HD11	1.53	0.89
1:C:45:ASN:HB2	3:e:108:LEU:HD23	1.52	0.89
1:F:44:LYS:NZ	3:j:128:SER:OG	2.06	0.89
1:D:460:LEU:CA	1:D:475:VAL:HG12	1.99	0.89
1:O:44:LYS:NZ	3:s:128:SER:OG	2.06	0.89
1:E:44:LYS:NZ	3:i:128:SER:OG	2.06	0.89
1:G:44:LYS:NZ	3:k:128:SER:OG	2.06	0.89
1:K:460:LEU:HA	1:K:475:VAL:CG1	1.98	0.89
1:L:45:ASN:HB2	3:p:108:LEU:HD23	1.52	0.89
1:N:44:LYS:NZ	3:r:128:SER:OG	2.06	0.89
1:J:65:TYR:OH	3:m:113:PRO:CB	2.20	0.89
1:I:460:LEU:CA	1:I:475:VAL:HG12	1.99	0.89
1:A:44:LYS:NZ	3:f:128:SER:OG	2.06	0.89
1:D:65:TYR:OH	3:e:113:PRO:CB	2.21	0.88
1:C:44:LYS:HD3	3:e:117:ILE:HD11	1.53	0.88
1:D:44:LYS:NZ	3:h:128:SER:OG	2.06	0.88
1:M:103:ASP:CB	1:M:105:LYS:HG2	2.03	0.88
1:J:460:LEU:CA	1:J:475:VAL:HG12	1.99	0.88
1:E:611:GLN:NE2	1:E:612:THR:HG23	1.88	0.88
1:H:44:LYS:NZ	3:l:128:SER:OG	2.06	0.88
1:I:44:LYS:NZ	3:m:128:SER:OG	2.06	0.88
1:L:103:ASP:CB	1:L:105:LYS:HG2	2.03	0.88
1:J:103:ASP:CB	1:J:105:LYS:HG2	2.03	0.88
1:J:460:LEU:HA	1:J:475:VAL:CG1	1.98	0.88
1:K:460:LEU:CA	1:K:475:VAL:HG12	1.99	0.88
1:L:611:GLN:NE2	1:L:612:THR:HG23	1.88	0.88
1:M:44:LYS:NZ	3:q:128:SER:OG	2.06	0.88
1:A:650:PHE:CZ	2:Q:80:VAL:HG11	2.09	0.88
1:C:460:LEU:CA	1:C:475:VAL:HG12	1.99	0.88
1:D:611:GLN:NE2	1:D:612:THR:HG23	1.88	0.88
1:O:650:PHE:CZ	2:d:80:VAL:HG11	2.09	0.88
1:B:44:LYS:NZ	3:g:128:SER:OG	2.06	0.88
1:B:650:PHE:CZ	2:R:80:VAL:HG11	2.09	0.88
1:F:611:GLN:NE2	1:F:612:THR:HG23	1.88	0.88
1:I:103:ASP:CB	1:I:105:LYS:HG2	2.03	0.88
1:J:44:LYS:HD3	3:n:117:ILE:HD11	1.53	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:44:LYS:NZ	3:p:128:SER:OG	2.06	0.88
1:C:611:GLN:NE2	1:C:612:THR:HG23	1.88	0.88
1:C:650:PHE:CZ	2:P:80:VAL:HG11	2.09	0.88
1:L:460:LEU:CA	1:L:475:VAL:HG12	1.99	0.88
1:N:611:GLN:NE2	1:N:612:THR:HG23	1.88	0.88
1:N:650:PHE:CZ	2:c:80:VAL:HG11	2.09	0.88
1:F:477:ARG:HH12	1:G:459:VAL:CG1	1.84	0.88
1:J:44:LYS:NZ	3:n:128:SER:OG	2.06	0.88
1:C:44:LYS:NZ	3:e:128:SER:OG	2.06	0.88
1:D:650:PHE:CZ	2:S:80:VAL:HG11	2.09	0.88
1:A:65:TYR:OH	3:s:113:PRO:CB	2.20	0.87
1:E:650:PHE:CZ	2:T:80:VAL:HG11	2.09	0.87
1:F:650:PHE:CZ	2:U:80:VAL:HG11	2.09	0.87
1:G:611:GLN:NE2	1:G:612:THR:HG23	1.88	0.87
1:M:650:PHE:CZ	2:b:80:VAL:HG11	2.09	0.87
1:A:103:ASP:CB	1:A:105:LYS:HG2	2.03	0.87
1:B:103:ASP:CB	1:B:105:LYS:HG2	2.03	0.87
1:F:103:ASP:CB	1:F:105:LYS:HG2	2.03	0.87
1:I:611:GLN:NE2	1:I:612:THR:HG23	1.88	0.87
1:J:611:GLN:NE2	1:J:612:THR:HG23	1.88	0.87
1:K:44:LYS:NZ	3:o:128:SER:OG	2.06	0.87
1:K:611:GLN:NE2	1:K:612:THR:HG23	1.88	0.87
1:O:103:ASP:CB	1:O:105:LYS:HG2	2.03	0.87
1:G:103:ASP:CB	1:G:105:LYS:HG2	2.03	0.87
1:B:611:GLN:NE2	1:B:612:THR:HG23	1.88	0.87
1:C:103:ASP:CB	1:C:105:LYS:HG2	2.03	0.87
1:L:650:PHE:CZ	2:a:80:VAL:HG11	2.09	0.87
1:E:103:ASP:CB	1:E:105:LYS:HG2	2.03	0.87
1:H:611:GLN:NE2	1:H:612:THR:HG23	1.88	0.87
1:M:460:LEU:CA	1:M:475:VAL:HG12	1.99	0.87
1:N:112:ALA:HB3	1:N:126:ARG:HD3	1.57	0.87
1:O:112:ALA:HB3	1:O:126:ARG:HD3	1.57	0.87
1:A:112:ALA:HB3	1:A:126:ARG:HD3	1.57	0.87
1:G:65:TYR:OH	3:j:113:PRO:CB	2.23	0.87
1:K:650:PHE:CZ	2:Z:80:VAL:HG11	2.09	0.87
1:M:611:GLN:NE2	1:M:612:THR:HG23	1.88	0.87
1:N:103:ASP:CB	1:N:105:LYS:HG2	2.03	0.87
1:M:112:ALA:HB3	1:M:126:ARG:HD3	1.57	0.87
1:C:112:ALA:HB3	1:C:126:ARG:HD3	1.57	0.87
1:H:103:ASP:CB	1:H:105:LYS:HG2	2.03	0.87
1:K:103:ASP:CB	1:K:105:LYS:HG2	2.03	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:103:ASP:CB	1:D:105:LYS:HG2	2.03	0.86
1:D:112:ALA:HB3	1:D:126:ARG:HD3	1.57	0.86
1:G:650:PHE:CZ	2:V:80:VAL:HG11	2.09	0.86
1:J:650:PHE:CZ	2:Y:80:VAL:HG11	2.09	0.86
1:N:460:LEU:CA	1:N:475:VAL:HG12	1.99	0.86
1:O:611:GLN:NE2	1:O:612:THR:HG23	1.88	0.86
1:B:112:ALA:HB3	1:B:126:ARG:HD3	1.57	0.86
1:I:650:PHE:CZ	2:X:80:VAL:HG11	2.09	0.86
1:A:611:GLN:NE2	1:A:612:THR:HG23	1.88	0.86
1:B:460:LEU:CA	1:B:475:VAL:HG12	1.99	0.86
1:D:44:LYS:HD3	3:h:117:ILE:HD11	1.53	0.86
1:K:44:LYS:HD3	3:o:117:ILE:HD11	1.53	0.86
1:E:112:ALA:HB3	1:E:126:ARG:HD3	1.57	0.86
1:H:650:PHE:CZ	2:W:80:VAL:HG11	2.09	0.86
1:L:112:ALA:HB3	1:L:126:ARG:HD3	1.57	0.86
1:O:460:LEU:CA	1:O:475:VAL:HG12	1.99	0.86
1:A:460:LEU:CA	1:A:475:VAL:HG12	1.99	0.86
2:T:76:ALA:HB3	2:T:130:LEU:HD12	1.58	0.86
2:W:76:ALA:HB3	2:W:130:LEU:HD12	1.58	0.86
2:Y:76:ALA:HB3	2:Y:130:LEU:HD12	1.58	0.86
1:F:65:TYR:OH	3:i:113:PRO:CB	2.24	0.86
1:F:112:ALA:HB3	1:F:126:ARG:HD3	1.57	0.86
1:I:65:TYR:OH	3:l:113:PRO:CB	2.23	0.85
1:K:112:ALA:HB3	1:K:126:ARG:HD3	1.57	0.85
1:N:65:TYR:OH	3:q:113:PRO:HB2	1.75	0.85
2:b:76:ALA:HB3	2:b:130:LEU:HD12	1.58	0.85
2:T:123:LEU:O	2:T:127:ILE:HG13	1.77	0.85
2:U:123:LEU:O	2:U:127:ILE:HG13	1.77	0.85
2:V:76:ALA:HB3	2:V:130:LEU:HD12	1.58	0.85
2:Z:76:ALA:HB3	2:Z:130:LEU:HD12	1.58	0.85
1:G:112:ALA:HB3	1:G:126:ARG:HD3	1.57	0.85
2:S:123:LEU:O	2:S:127:ILE:HG13	1.76	0.85
2:c:123:LEU:O	2:c:127:ILE:HG13	1.77	0.85
2:d:123:LEU:O	2:d:127:ILE:HG13	1.77	0.85
1:H:65:TYR:OH	3:k:113:PRO:HB2	1.76	0.85
2:R:123:LEU:O	2:R:127:ILE:HG13	1.77	0.85
2:b:123:LEU:O	2:b:127:ILE:HG13	1.76	0.85
2:Q:123:LEU:O	2:Q:127:ILE:HG13	1.77	0.85
2:V:123:LEU:O	2:V:127:ILE:HG13	1.77	0.85
1:L:44:LYS:HD3	3:p:117:ILE:HD11	1.53	0.85
1:H:112:ALA:HB3	1:H:126:ARG:HD3	1.57	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:112:ALA:HB3	1:J:126:ARG:HD3	1.57	0.85
1:G:159:PRO:O	1:H:222:SER:OG	1.94	0.84
1:I:112:ALA:HB3	1:I:126:ARG:HD3	1.57	0.84
1:O:65:TYR:OH	3:r:113:PRO:CB	2.24	0.84
2:S:76:ALA:HB3	2:S:130:LEU:HD12	1.58	0.84
1:C:44:LYS:HD2	3:e:117:ILE:HD11	1.60	0.84
2:a:123:LEU:O	2:a:127:ILE:HG13	1.77	0.84
1:B:65:TYR:OH	3:f:113:PRO:CB	2.26	0.84
2:R:76:ALA:HB3	2:R:130:LEU:HD12	1.58	0.84
1:O:44:LYS:HD2	3:s:117:ILE:HD11	1.60	0.84
2:P:123:LEU:O	2:P:127:ILE:HG13	1.77	0.84
2:Z:123:LEU:O	2:Z:127:ILE:HG13	1.76	0.84
2:c:76:ALA:HB3	2:c:130:LEU:HD12	1.58	0.84
1:C:103:ASP:OD2	1:C:105:LYS:HG2	1.78	0.84
1:D:103:ASP:OD2	1:D:105:LYS:HG2	1.78	0.84
1:F:44:LYS:HD2	3:j:117:ILE:HD11	1.60	0.84
1:M:44:LYS:HD2	3:q:117:ILE:HD11	1.60	0.84
2:Q:76:ALA:HB3	2:Q:130:LEU:HD12	1.58	0.84
1:E:159:PRO:O	1:F:222:SER:OG	1.94	0.84
1:K:103:ASP:OD2	1:K:105:LYS:HG2	1.78	0.84
2:W:123:LEU:O	2:W:127:ILE:HG13	1.77	0.84
1:A:44:LYS:HD2	3:f:117:ILE:HD11	1.60	0.84
1:E:44:LYS:HD3	3:i:117:ILE:HD11	1.53	0.84
1:I:159:PRO:O	1:J:222:SER:OG	1.96	0.84
2:U:76:ALA:HB3	2:U:130:LEU:HD12	1.58	0.84
2:a:76:ALA:HB3	2:a:130:LEU:HD12	1.58	0.84
2:Y:123:LEU:O	2:Y:127:ILE:HG13	1.77	0.84
1:B:103:ASP:OD2	1:B:105:LYS:HG2	1.78	0.84
1:I:103:ASP:OD2	1:I:105:LYS:HG2	1.78	0.84
1:M:44:LYS:HD3	3:q:117:ILE:HD11	1.53	0.84
1:L:44:LYS:HD2	3:p:117:ILE:HD11	1.60	0.83
1:L:65:TYR:OH	3:o:113:PRO:CB	2.26	0.83
1:M:103:ASP:OD2	1:M:105:LYS:HG2	1.78	0.83
1:K:103:ASP:HB3	1:K:105:LYS:CG	2.08	0.83
1:H:103:ASP:OD2	1:H:105:LYS:HG2	1.78	0.83
1:N:159:PRO:O	1:O:222:SER:OG	1.95	0.83
2:X:76:ALA:HB3	2:X:130:LEU:HD12	1.58	0.83
1:D:44:LYS:HD2	3:h:117:ILE:HD11	1.60	0.83
1:E:44:LYS:HD2	3:i:117:ILE:HD11	1.60	0.83
1:E:103:ASP:OD2	1:E:105:LYS:HG2	1.78	0.83
1:G:103:ASP:OD2	1:G:105:LYS:HG2	1.78	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:44:LYS:HD2	3:m:117:ILE:HD11	1.60	0.83
2:X:123:LEU:O	2:X:127:ILE:HG13	1.77	0.83
2:P:76:ALA:HB3	2:P:130:LEU:HD12	1.58	0.83
1:H:103:ASP:HB3	1:H:105:LYS:CG	2.08	0.83
1:J:44:LYS:HD2	3:n:117:ILE:HD11	1.60	0.83
1:N:103:ASP:HB3	1:N:105:LYS:CG	2.08	0.83
1:C:159:PRO:O	1:D:222:SER:OG	1.97	0.83
1:J:103:ASP:OD2	1:J:105:LYS:HG2	1.78	0.83
1:L:103:ASP:HB3	1:L:105:LYS:CG	2.09	0.83
1:N:103:ASP:OD2	1:N:105:LYS:HG2	1.78	0.83
1:O:103:ASP:OD2	1:O:105:LYS:HG2	1.78	0.83
1:F:460:LEU:CA	1:F:475:VAL:HG12	1.99	0.83
1:M:65:TYR:OH	3:p:113:PRO:CB	2.26	0.83
1:A:103:ASP:OD2	1:A:105:LYS:HG2	1.78	0.82
1:L:103:ASP:OD2	1:L:105:LYS:HG2	1.78	0.82
1:G:44:LYS:HD2	3:k:117:ILE:HD11	1.60	0.82
1:J:103:ASP:HB3	1:J:105:LYS:CG	2.08	0.82
1:O:103:ASP:HB3	1:O:105:LYS:CG	2.08	0.82
1:B:44:LYS:HD2	3:g:117:ILE:HD11	1.60	0.82
1:C:103:ASP:HB3	1:C:105:LYS:CG	2.09	0.82
1:I:103:ASP:HB3	1:I:105:LYS:CG	2.08	0.82
1:B:103:ASP:HB3	1:B:105:LYS:CG	2.08	0.82
1:C:650:PHE:HZ	2:P:80:VAL:CG1	1.93	0.82
2:d:76:ALA:HB3	2:d:130:LEU:HD12	1.58	0.82
1:D:103:ASP:HB3	1:D:105:LYS:CG	2.08	0.82
1:F:103:ASP:OD2	1:F:105:LYS:HG2	1.78	0.82
1:F:650:PHE:HZ	2:U:80:VAL:CG1	1.93	0.82
1:J:650:PHE:HZ	2:Y:80:VAL:CG1	1.93	0.82
1:K:65:TYR:OH	3:n:113:PRO:HB2	1.78	0.82
1:O:650:PHE:HZ	2:d:80:VAL:CG1	1.93	0.82
1:L:650:PHE:HZ	2:a:80:VAL:CG1	1.93	0.82
1:A:366:ASN:HB3	1:A:369:ALA:HB3	1.62	0.82
1:H:44:LYS:HD2	3:l:117:ILE:HD11	1.60	0.82
1:J:262:GLN:H	1:K:331:ARG:HH22	1.26	0.82
1:N:366:ASN:HB3	1:N:369:ALA:HB3	1.62	0.82
1:O:366:ASN:HB3	1:O:369:ALA:HB3	1.62	0.82
1:G:103:ASP:HB3	1:G:105:LYS:CG	2.09	0.82
1:I:650:PHE:HZ	2:X:80:VAL:CG1	1.93	0.82
1:J:159:PRO:O	1:K:222:SER:OG	1.95	0.82
1:M:103:ASP:HB3	1:M:105:LYS:CG	2.08	0.82
1:E:103:ASP:HB3	1:E:105:LYS:CG	2.08	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:48:LYS:HB3	1:H:95:VAL:HG11	1.62	0.82
1:B:366:ASN:HB3	1:B:369:ALA:HB3	1.62	0.82
1:B:650:PHE:HZ	2:R:80:VAL:CG1	1.93	0.82
1:J:48:LYS:HB3	1:J:95:VAL:HG11	1.62	0.82
1:M:650:PHE:HZ	2:b:80:VAL:CG1	1.93	0.82
1:E:650:PHE:HZ	2:T:80:VAL:CG1	1.93	0.81
1:F:48:LYS:HB3	1:F:95:VAL:HG11	1.62	0.81
1:G:650:PHE:HZ	2:V:80:VAL:CG1	1.93	0.81
1:N:44:LYS:HD2	3:r:117:ILE:HD11	1.60	0.81
1:N:650:PHE:HZ	2:c:80:VAL:CG1	1.93	0.81
1:A:103:ASP:HB3	1:A:105:LYS:CG	2.08	0.81
1:G:48:LYS:HB3	1:G:95:VAL:HG11	1.62	0.81
1:K:48:LYS:HB3	1:K:95:VAL:HG11	1.62	0.81
1:M:366:ASN:HB3	1:M:369:ALA:HB3	1.62	0.81
1:E:48:LYS:HB3	1:E:95:VAL:HG11	1.62	0.81
1:E:65:TYR:OH	3:h:113:PRO:HB2	1.80	0.81
1:F:44:LYS:HD3	3:j:117:ILE:HD11	1.53	0.81
1:H:650:PHE:HZ	2:W:80:VAL:CG1	1.93	0.81
1:I:48:LYS:HB3	1:I:95:VAL:HG11	1.62	0.81
1:K:650:PHE:HZ	2:Z:80:VAL:CG1	1.93	0.81
1:A:159:PRO:O	1:B:222:SER:OG	1.98	0.81
1:A:650:PHE:HZ	2:Q:80:VAL:CG1	1.93	0.81
1:D:650:PHE:HZ	2:S:80:VAL:CG1	1.93	0.81
1:F:103:ASP:HB3	1:F:105:LYS:CG	2.08	0.81
1:M:159:PRO:O	1:N:222:SER:OG	1.97	0.81
1:B:159:PRO:O	1:C:222:SER:OG	1.97	0.81
1:C:65:TYR:OH	3:g:113:PRO:HB2	1.81	0.81
1:G:460:LEU:CA	1:G:475:VAL:HG12	1.99	0.81
1:A:222:SER:OG	1:O:159:PRO:O	1.97	0.81
1:C:37:GLU:OE1	3:e:126:GLN:OE1	1.98	0.81
1:D:159:PRO:O	1:E:222:SER:OG	1.98	0.81
1:J:37:GLU:OE1	3:n:126:GLN:OE1	1.99	0.81
1:K:44:LYS:HD2	3:o:117:ILE:HD11	1.60	0.81
1:C:366:ASN:HB3	1:C:369:ALA:HB3	1.62	0.81
1:K:37:GLU:OE1	3:o:126:GLN:OE1	1.99	0.81
1:B:37:GLU:OE1	3:g:126:GLN:OE1	1.98	0.81
1:D:37:GLU:OE1	3:h:126:GLN:OE1	1.99	0.81
1:H:37:GLU:OE1	3:l:126:GLN:OE1	1.99	0.81
1:I:37:GLU:OE1	3:m:126:GLN:OE1	1.99	0.81
1:A:37:GLU:OE1	3:f:126:GLN:OE1	1.99	0.81
1:L:366:ASN:HB3	1:L:369:ALA:HB3	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:48:LYS:HB3	1:M:95:VAL:HG11	1.62	0.81
1:D:48:LYS:HB3	1:D:95:VAL:HG11	1.62	0.80
1:H:366:ASN:HB3	1:H:369:ALA:HB3	1.62	0.80
1:O:37:GLU:OE1	3:s:126:GLN:OE1	1.98	0.80
1:G:199:SER:HA	1:H:324:ASP:OD2	1.80	0.80
1:G:366:ASN:HB3	1:G:369:ALA:HB3	1.62	0.80
1:J:65:TYR:OH	3:m:113:PRO:HB2	1.81	0.80
1:L:48:LYS:HB3	1:L:95:VAL:HG11	1.62	0.80
1:E:37:GLU:OE1	3:i:126:GLN:OE1	1.98	0.80
1:C:48:LYS:HB3	1:C:95:VAL:HG11	1.62	0.80
1:I:366:ASN:HB3	1:I:369:ALA:HB3	1.62	0.80
1:L:37:GLU:OE1	3:p:126:GLN:OE1	1.98	0.80
1:F:366:ASN:HB3	1:F:369:ALA:HB3	1.62	0.80
1:L:125:THR:HA	1:L:166:THR:HA	1.64	0.80
1:L:159:PRO:O	1:M:222:SER:OG	1.98	0.80
1:M:199:SER:HA	1:N:324:ASP:OD2	1.82	0.80
1:N:37:GLU:OE1	3:r:126:GLN:OE1	1.98	0.80
1:G:37:GLU:OE1	3:k:126:GLN:OE1	1.99	0.80
1:N:48:LYS:HB3	1:N:95:VAL:HG11	1.62	0.80
1:B:48:LYS:HB3	1:B:95:VAL:HG11	1.62	0.80
1:J:366:ASN:HB3	1:J:369:ALA:HB3	1.62	0.80
1:K:125:THR:HA	1:K:166:THR:HA	1.64	0.80
1:M:37:GLU:OE1	3:q:126:GLN:OE1	1.98	0.80
1:M:125:THR:HA	1:M:166:THR:HA	1.64	0.80
1:E:366:ASN:HB3	1:E:369:ALA:HB3	1.62	0.79
1:F:37:GLU:OE1	3:j:126:GLN:OE1	1.98	0.79
1:A:48:LYS:HB3	1:A:95:VAL:HG11	1.62	0.79
1:D:366:ASN:HB3	1:D:369:ALA:HB3	1.62	0.79
1:E:262:GLN:H	1:F:331:ARG:HH22	1.28	0.79
1:H:159:PRO:O	1:I:222:SER:OG	1.98	0.79
1:J:125:THR:HA	1:J:166:THR:HA	1.64	0.79
1:A:65:TYR:OH	3:s:113:PRO:HB2	1.82	0.79
1:C:125:THR:HA	1:C:166:THR:HA	1.64	0.79
1:D:219:LEU:HB2	1:D:220:PRO:HD2	1.65	0.79
1:N:125:THR:HA	1:N:166:THR:HA	1.64	0.79
1:D:125:THR:HA	1:D:166:THR:HA	1.64	0.79
1:K:366:ASN:HB3	1:K:369:ALA:HB3	1.62	0.79
1:O:48:LYS:HB3	1:O:95:VAL:HG11	1.62	0.79
1:B:219:LEU:HB2	1:B:220:PRO:HD2	1.65	0.79
1:F:219:LEU:HB2	1:F:220:PRO:HD2	1.65	0.79
1:G:219:LEU:HB2	1:G:220:PRO:HD2	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:221:GLY:HA3	1:H:214:THR:HB	1.64	0.79
1:E:219:LEU:HB2	1:E:220:PRO:HD2	1.65	0.79
1:E:650:PHE:CZ	2:T:80:VAL:CG1	2.66	0.79
1:G:262:GLN:H	1:H:331:ARG:HH22	1.29	0.79
1:B:650:PHE:CZ	2:R:80:VAL:CG1	2.66	0.79
1:C:199:SER:HA	1:D:324:ASP:OD2	1.83	0.79
1:C:219:LEU:HB2	1:C:220:PRO:HD2	1.65	0.79
1:C:262:GLN:H	1:D:331:ARG:HH22	1.30	0.79
1:F:650:PHE:CZ	2:U:80:VAL:CG1	2.66	0.79
1:A:219:LEU:HB2	1:A:220:PRO:HD2	1.65	0.79
1:B:125:THR:HA	1:B:166:THR:HA	1.64	0.79
1:C:650:PHE:CZ	2:P:80:VAL:CG1	2.66	0.79
1:E:125:THR:HA	1:E:166:THR:HA	1.64	0.79
1:A:262:GLN:H	1:B:331:ARG:HH22	1.29	0.78
1:G:650:PHE:CZ	2:V:80:VAL:CG1	2.66	0.78
1:O:125:THR:HA	1:O:166:THR:HA	1.64	0.78
1:N:650:PHE:CZ	2:c:80:VAL:CG1	2.66	0.78
1:M:44:LYS:HE2	1:N:63:ARG:NH1	1.98	0.78
1:I:262:GLN:H	1:J:331:ARG:HH22	1.32	0.78
1:K:159:PRO:O	1:L:222:SER:OG	2.00	0.78
1:N:262:GLN:H	1:O:331:ARG:HH22	1.29	0.78
1:D:650:PHE:CZ	2:S:80:VAL:CG1	2.66	0.78
1:F:159:PRO:O	1:G:222:SER:OG	2.01	0.78
1:O:65:TYR:OH	3:r:113:PRO:HB2	1.84	0.78
1:I:199:SER:HA	1:J:324:ASP:OD2	1.83	0.78
1:J:650:PHE:CZ	2:Y:80:VAL:CG1	2.66	0.78
1:A:125:THR:HA	1:A:166:THR:HA	1.64	0.78
1:D:65:TYR:OH	3:e:113:PRO:HB2	1.82	0.78
1:F:65:TYR:OH	3:i:113:PRO:HB2	1.83	0.78
1:F:125:THR:HA	1:F:166:THR:HA	1.64	0.78
1:H:219:LEU:HB2	1:H:220:PRO:HD2	1.65	0.78
1:I:125:THR:HA	1:I:166:THR:HA	1.64	0.78
1:I:219:LEU:HB2	1:I:220:PRO:HD2	1.65	0.78
1:O:219:LEU:HB2	1:O:220:PRO:HD2	1.65	0.78
1:O:650:PHE:CZ	2:d:80:VAL:CG1	2.66	0.78
1:N:219:LEU:HB2	1:N:220:PRO:HD2	1.65	0.78
1:M:44:LYS:HE2	1:N:63:ARG:HH11	1.49	0.78
1:J:219:LEU:HB2	1:J:220:PRO:HD2	1.65	0.77
1:J:44:LYS:HE2	1:K:63:ARG:NH1	1.99	0.77
1:M:171:VAL:HG13	1:M:174:ARG:HE	1.49	0.77
1:M:221:GLY:HA3	1:N:214:THR:HB	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:650:PHE:CZ	2:W:80:VAL:CG1	2.66	0.77
1:K:650:PHE:CZ	2:Z:80:VAL:CG1	2.66	0.77
1:M:219:LEU:HB2	1:M:220:PRO:HD2	1.65	0.77
1:H:306:ILE:HG12	1:H:321:ALA:HB1	1.66	0.77
1:K:171:VAL:HG13	1:K:174:ARG:HE	1.49	0.77
1:B:199:SER:HA	1:C:324:ASP:OD2	1.83	0.77
1:B:262:GLN:H	1:C:331:ARG:HH22	1.32	0.77
1:I:306:ILE:HG12	1:I:321:ALA:HB1	1.66	0.77
1:F:517:ASP:OD1	1:F:518:LEU:N	2.17	0.77
1:G:306:ILE:HG12	1:G:321:ALA:HB1	1.66	0.77
1:J:171:VAL:HG13	1:J:174:ARG:HE	1.49	0.77
1:L:171:VAL:HG13	1:L:174:ARG:HE	1.49	0.77
1:A:306:ILE:HG12	1:A:321:ALA:HB1	1.66	0.77
1:A:517:ASP:OD1	1:A:518:LEU:N	2.17	0.77
1:G:125:THR:HA	1:G:166:THR:HA	1.64	0.77
1:L:650:PHE:CZ	2:a:80:VAL:CG1	2.66	0.77
1:O:306:ILE:HG12	1:O:321:ALA:HB1	1.66	0.77
1:I:65:TYR:OH	3:l:113:PRO:HB2	1.84	0.77
1:F:306:ILE:HG12	1:F:321:ALA:HB1	1.66	0.77
1:J:306:ILE:HG12	1:J:321:ALA:HB1	1.66	0.77
1:K:219:LEU:HB2	1:K:220:PRO:HD2	1.65	0.77
1:O:517:ASP:OD1	1:O:518:LEU:N	2.17	0.77
1:B:491:ASN:OD1	1:B:492:GLU:N	2.18	0.77
1:I:171:VAL:HG13	1:I:174:ARG:HE	1.49	0.77
1:N:306:ILE:HG12	1:N:321:ALA:HB1	1.66	0.77
1:B:306:ILE:HG12	1:B:321:ALA:HB1	1.66	0.76
1:C:491:ASN:OD1	1:C:492:GLU:N	2.18	0.76
1:D:262:GLN:H	1:E:331:ARG:HH22	1.31	0.76
1:E:517:ASP:OD1	1:E:518:LEU:N	2.17	0.76
1:I:650:PHE:CZ	2:X:80:VAL:CG1	2.66	0.76
1:L:219:LEU:HB2	1:L:220:PRO:HD2	1.65	0.76
1:A:491:ASN:OD1	1:A:492:GLU:N	2.18	0.76
1:C:44:LYS:CD	3:e:117:ILE:CD1	2.62	0.76
1:L:318:ILE:HG22	1:L:319:VAL:N	2.00	0.76
1:A:650:PHE:CZ	2:Q:80:VAL:CG1	2.66	0.76
1:B:517:ASP:OD1	1:B:518:LEU:N	2.17	0.76
1:F:262:GLN:H	1:G:331:ARG:HH22	1.33	0.76
1:H:125:THR:HA	1:H:166:THR:HA	1.64	0.76
1:M:318:ILE:HG22	1:M:319:VAL:N	2.00	0.76
1:E:306:ILE:HG12	1:E:321:ALA:HB1	1.66	0.76
1:F:44:LYS:CD	3:j:117:ILE:CD1	2.61	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:517:ASP:OD1	1:N:518:LEU:N	2.17	0.76
1:O:318:ILE:HG22	1:O:319:VAL:N	2.00	0.76
1:A:171:VAL:HG13	1:A:174:ARG:HE	1.49	0.76
1:D:199:SER:HA	1:E:324:ASP:OD2	1.85	0.76
1:D:491:ASN:OD1	1:D:492:GLU:N	2.18	0.76
1:I:491:ASN:OD1	1:I:492:GLU:N	2.18	0.76
1:J:199:SER:HA	1:K:324:ASP:OD2	1.83	0.76
1:M:306:ILE:HG12	1:M:321:ALA:HB1	1.66	0.76
1:M:650:PHE:CZ	2:b:80:VAL:CG1	2.66	0.76
1:N:199:SER:HA	1:O:324:ASP:OD2	1.85	0.76
1:N:318:ILE:HG22	1:N:319:VAL:N	2.00	0.76
1:O:491:ASN:OD1	1:O:492:GLU:N	2.18	0.76
1:F:318:ILE:HG22	1:F:319:VAL:N	2.00	0.76
1:I:475:VAL:HG21	1:J:518:LEU:HD22	1.68	0.76
1:J:318:ILE:HG22	1:J:319:VAL:N	2.00	0.76
1:K:262:GLN:H	1:L:331:ARG:HH22	1.34	0.76
1:N:171:VAL:HG13	1:N:174:ARG:HE	1.49	0.76
1:C:306:ILE:HG12	1:C:321:ALA:HB1	1.66	0.76
1:D:171:VAL:HG13	1:D:174:ARG:HE	1.49	0.76
1:D:306:ILE:HG12	1:D:321:ALA:HB1	1.66	0.76
1:K:306:ILE:HG12	1:K:321:ALA:HB1	1.66	0.76
1:B:65:TYR:OH	3:f:113:PRO:HB2	1.85	0.76
1:I:153:SER:HB2	1:I:167:GLY:N	2.01	0.76
1:J:44:LYS:CD	3:n:117:ILE:CD1	2.62	0.76
1:L:306:ILE:HG12	1:L:321:ALA:HB1	1.66	0.76
1:O:44:LYS:CD	3:s:117:ILE:CD1	2.61	0.76
1:D:318:ILE:HG22	1:D:319:VAL:N	2.00	0.76
1:D:517:ASP:OD1	1:D:518:LEU:N	2.17	0.76
1:G:44:LYS:HE2	1:H:63:ARG:NH1	2.01	0.76
1:G:171:VAL:HG13	1:G:174:ARG:HE	1.49	0.76
1:H:171:VAL:HG13	1:H:174:ARG:HE	1.49	0.76
1:I:318:ILE:HG22	1:I:319:VAL:N	2.00	0.76
1:J:491:ASN:OD1	1:J:492:GLU:N	2.18	0.76
1:O:171:VAL:HG13	1:O:174:ARG:HE	1.49	0.76
1:F:153:SER:HB2	1:F:167:GLY:N	2.02	0.75
1:K:318:ILE:HG22	1:K:319:VAL:N	2.00	0.75
1:M:262:GLN:H	1:N:331:ARG:HH22	1.30	0.75
1:O:153:SER:HB2	1:O:167:GLY:N	2.02	0.75
1:A:153:SER:HB2	1:A:167:GLY:N	2.02	0.75
1:N:153:SER:HB2	1:N:167:GLY:N	2.01	0.75
1:B:95:VAL:HG12	1:B:96:LEU:H	1.52	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:318:ILE:HG22	1:B:319:VAL:N	2.00	0.75
1:C:95:VAL:HG12	1:C:96:LEU:H	1.52	0.75
1:G:65:TYR:OH	3:j:113:PRO:HB2	1.84	0.75
1:G:95:VAL:HG12	1:G:96:LEU:H	1.52	0.75
1:J:221:GLY:HA3	1:K:214:THR:HB	1.67	0.75
1:L:262:GLN:H	1:M:331:ARG:HH22	1.33	0.75
1:N:491:ASN:OD1	1:N:492:GLU:N	2.18	0.75
1:A:95:VAL:HG12	1:A:96:LEU:H	1.52	0.75
1:E:153:SER:HB2	1:E:167:GLY:N	2.01	0.75
1:H:318:ILE:HG22	1:H:319:VAL:N	2.00	0.75
1:L:517:ASP:OD1	1:L:518:LEU:N	2.17	0.75
1:M:517:ASP:OD1	1:M:518:LEU:N	2.17	0.75
1:A:318:ILE:HG22	1:A:319:VAL:N	2.00	0.75
1:D:95:VAL:HG12	1:D:96:LEU:H	1.52	0.75
1:E:491:ASN:OD1	1:E:492:GLU:N	2.18	0.75
1:F:475:VAL:HG21	1:G:518:LEU:HD22	1.69	0.75
1:H:262:GLN:H	1:I:331:ARG:HH22	1.33	0.75
1:K:517:ASP:OD1	1:K:518:LEU:N	2.17	0.75
1:B:153:SER:HB2	1:B:167:GLY:N	2.01	0.75
1:H:95:VAL:HG12	1:H:96:LEU:H	1.52	0.75
1:L:65:TYR:OH	3:o:113:PRO:HB2	1.86	0.75
1:L:95:VAL:HG12	1:L:96:LEU:H	1.52	0.75
1:L:491:ASN:OD1	1:L:492:GLU:N	2.18	0.75
1:M:153:SER:HB2	1:M:167:GLY:N	2.01	0.75
1:O:95:VAL:HG12	1:O:96:LEU:H	1.52	0.75
1:C:171:VAL:HG13	1:C:174:ARG:HE	1.49	0.75
1:C:517:ASP:OD1	1:C:518:LEU:N	2.17	0.75
1:F:171:VAL:HG13	1:F:174:ARG:HE	1.49	0.75
1:J:153:SER:HB2	1:J:167:GLY:N	2.02	0.75
1:M:491:ASN:OD1	1:M:492:GLU:N	2.18	0.75
1:E:171:VAL:HG13	1:E:174:ARG:HE	1.49	0.74
1:E:199:SER:HA	1:F:324:ASP:OD2	1.87	0.74
1:F:95:VAL:HG12	1:F:96:LEU:H	1.52	0.74
1:H:153:SER:HB2	1:H:167:GLY:N	2.01	0.74
1:K:491:ASN:OD1	1:K:492:GLU:N	2.18	0.74
1:L:475:VAL:HG21	1:M:518:LEU:HD22	1.69	0.74
1:A:331:ARG:HH22	1:O:262:GLN:H	1.35	0.74
1:C:221:GLY:HA3	1:D:214:THR:HB	1.68	0.74
1:E:95:VAL:HG12	1:E:96:LEU:H	1.52	0.74
1:G:153:SER:HB2	1:G:167:GLY:N	2.01	0.74
1:G:491:ASN:OD1	1:G:492:GLU:N	2.18	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:44:LYS:CD	3:m:117:ILE:CD1	2.61	0.74
1:I:221:GLY:HA3	1:J:214:THR:HB	1.68	0.74
1:K:95:VAL:HG12	1:K:96:LEU:H	1.52	0.74
1:L:153:SER:HB2	1:L:167:GLY:N	2.01	0.74
1:M:95:VAL:HG12	1:M:96:LEU:H	1.52	0.74
1:B:103:ASP:CG	1:B:105:LYS:HG2	2.13	0.74
1:F:199:SER:HA	1:G:324:ASP:OD2	1.87	0.74
1:F:491:ASN:OD1	1:F:492:GLU:N	2.18	0.74
1:G:318:ILE:HG22	1:G:319:VAL:N	2.00	0.74
1:I:477:ARG:NH2	1:J:459:VAL:HG11	2.01	0.74
1:L:44:LYS:CD	3:p:117:ILE:CD1	2.62	0.74
1:N:95:VAL:HG12	1:N:96:LEU:H	1.52	0.74
1:A:475:VAL:HG21	1:B:518:LEU:HD22	1.68	0.74
1:B:171:VAL:HG13	1:B:174:ARG:HE	1.49	0.74
1:C:103:ASP:CG	1:C:105:LYS:HG2	2.13	0.74
1:C:153:SER:HB2	1:C:167:GLY:N	2.01	0.74
1:I:643:VAL:HG21	2:X:105:LEU:HD21	1.70	0.74
1:A:103:ASP:CG	1:A:105:LYS:HG2	2.13	0.74
1:A:411:ILE:HG22	1:B:372:THR:HG22	1.69	0.74
1:B:221:GLY:HA3	1:C:214:THR:HB	1.68	0.74
1:D:103:ASP:CG	1:D:105:LYS:HG2	2.13	0.74
1:G:475:VAL:HG21	1:H:518:LEU:HD22	1.70	0.74
1:H:491:ASN:OD1	1:H:492:GLU:N	2.18	0.74
1:J:95:VAL:HG12	1:J:96:LEU:H	1.52	0.74
1:J:517:ASP:OD1	1:J:518:LEU:N	2.17	0.74
1:K:643:VAL:HG21	2:Z:105:LEU:HD21	1.70	0.74
1:A:324:ASP:OD2	1:O:199:SER:HA	1.86	0.74
1:D:643:VAL:HG21	2:S:105:LEU:HD21	1.70	0.74
1:E:318:ILE:HG22	1:E:319:VAL:N	2.00	0.74
1:H:201:ALA:O	1:H:205:LYS:HB2	1.88	0.74
1:J:103:ASP:CG	1:J:105:LYS:HG2	2.13	0.74
1:K:153:SER:HB2	1:K:167:GLY:N	2.01	0.74
1:E:44:LYS:CD	3:i:117:ILE:CD1	2.62	0.74
1:E:103:ASP:CG	1:E:105:LYS:HG2	2.13	0.74
1:G:44:LYS:HE2	1:H:63:ARG:HH11	1.51	0.74
1:H:65:TYR:OH	3:k:113:PRO:HB3	1.88	0.74
1:L:199:SER:HA	1:M:324:ASP:OD2	1.88	0.74
1:D:153:SER:HB2	1:D:167:GLY:N	2.02	0.74
1:F:643:VAL:HG21	2:U:105:LEU:HD21	1.70	0.74
1:G:201:ALA:O	1:G:205:LYS:HB2	1.88	0.74
1:I:95:VAL:HG12	1:I:96:LEU:H	1.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:103:ASP:CG	1:K:105:LYS:HG2	2.13	0.74
1:C:318:ILE:HG22	1:C:319:VAL:N	2.00	0.74
1:G:643:VAL:HG21	2:V:105:LEU:HD21	1.70	0.74
1:I:103:ASP:CG	1:I:105:LYS:HG2	2.13	0.74
1:I:201:ALA:O	1:I:205:LYS:HB2	1.88	0.74
1:F:44:LYS:HE2	1:G:63:ARG:NH1	2.02	0.73
1:M:643:VAL:HG21	2:b:105:LEU:HD21	1.70	0.73
1:B:643:VAL:HG21	2:R:105:LEU:HD21	1.70	0.73
1:G:477:ARG:NH2	1:H:459:VAL:HG11	2.03	0.73
1:L:103:ASP:CG	1:L:105:LYS:HG2	2.13	0.73
1:O:103:ASP:CG	1:O:105:LYS:HG2	2.13	0.73
1:A:201:ALA:O	1:A:205:LYS:HB2	1.88	0.73
1:B:475:VAL:HG21	1:C:518:LEU:HD22	1.70	0.73
1:F:103:ASP:CG	1:F:105:LYS:HG2	2.13	0.73
1:H:103:ASP:CG	1:H:105:LYS:HG2	2.13	0.73
1:M:65:TYR:OH	3:p:113:PRO:HB2	1.87	0.73
1:O:201:ALA:O	1:O:205:LYS:HB2	1.88	0.73
1:J:201:ALA:O	1:J:205:LYS:HB2	1.88	0.73
1:O:643:VAL:HG21	2:d:105:LEU:HD21	1.70	0.73
1:F:201:ALA:O	1:F:205:LYS:HB2	1.88	0.73
1:F:452:ASN:OD1	1:G:526:THR:OG1	2.07	0.73
1:I:517:ASP:OD1	1:I:518:LEU:N	2.17	0.73
1:L:643:VAL:HG21	2:a:105:LEU:HD21	1.70	0.73
1:N:342:GLN:HB2	1:N:443:THR:O	1.89	0.73
1:E:342:GLN:HB2	1:E:443:THR:O	1.89	0.73
1:E:459:VAL:O	1:E:475:VAL:HB	1.89	0.73
1:E:643:VAL:HG21	2:T:105:LEU:HD21	1.70	0.73
1:F:221:GLY:HA3	1:G:214:THR:HB	1.70	0.73
1:F:459:VAL:O	1:F:475:VAL:HB	1.89	0.73
1:G:459:VAL:O	1:G:475:VAL:HB	1.89	0.73
1:G:517:ASP:OD1	1:G:518:LEU:N	2.17	0.73
1:H:459:VAL:O	1:H:475:VAL:HB	1.89	0.73
1:J:459:VAL:O	1:J:475:VAL:HB	1.89	0.73
1:M:201:ALA:O	1:M:205:LYS:HB2	1.88	0.73
1:N:201:ALA:O	1:N:205:LYS:HB2	1.88	0.73
1:B:201:ALA:O	1:B:205:LYS:HB2	1.88	0.73
1:B:459:VAL:O	1:B:475:VAL:HB	1.89	0.73
1:C:475:VAL:HG21	1:D:518:LEU:HD22	1.71	0.73
1:D:459:VAL:O	1:D:475:VAL:HB	1.89	0.73
1:F:342:GLN:HB2	1:F:443:THR:O	1.89	0.73
1:G:103:ASP:CG	1:G:105:LYS:HG2	2.13	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:452:ASN:OD1	1:H:526:THR:OG1	2.06	0.73
1:H:643:VAL:HG21	2:W:105:LEU:HD21	1.70	0.73
1:I:459:VAL:O	1:I:475:VAL:HB	1.89	0.73
1:M:103:ASP:CG	1:M:105:LYS:HG2	2.13	0.73
1:M:342:GLN:HB2	1:M:443:THR:O	1.89	0.73
1:N:65:TYR:OH	3:q:113:PRO:HB3	1.88	0.73
1:O:342:GLN:HB2	1:O:443:THR:O	1.89	0.73
1:C:459:VAL:O	1:C:475:VAL:HB	1.89	0.73
1:M:475:VAL:HG21	1:N:518:LEU:HD22	1.70	0.73
1:D:342:GLN:HB2	1:D:443:THR:O	1.89	0.72
1:L:201:ALA:O	1:L:205:LYS:HB2	1.88	0.72
1:L:342:GLN:HB2	1:L:443:THR:O	1.89	0.72
1:M:452:ASN:OD1	1:N:526:THR:OG1	2.06	0.72
1:F:640:PHE:HB2	2:U:108:ASP:OD2	1.90	0.72
1:G:640:PHE:HB2	2:V:108:ASP:OD2	1.89	0.72
1:H:44:LYS:CD	3:l:117:ILE:CD1	2.61	0.72
1:N:103:ASP:CG	1:N:105:LYS:HG2	2.13	0.72
1:C:448:GLN:HE21	1:C:487:LYS:HD2	1.55	0.72
1:F:448:GLN:HE21	1:F:487:LYS:HD2	1.55	0.72
1:G:342:GLN:HB2	1:G:443:THR:O	1.89	0.72
1:J:44:LYS:HE2	1:K:63:ARG:HH11	1.54	0.72
1:M:44:LYS:CD	3:q:117:ILE:CD1	2.62	0.72
1:M:459:VAL:O	1:M:475:VAL:HB	1.89	0.72
1:O:448:GLN:HE21	1:O:487:LYS:HD2	1.55	0.72
1:A:199:SER:HA	1:B:324:ASP:OD2	1.88	0.72
1:D:221:GLY:HA3	1:E:214:THR:HB	1.70	0.72
1:H:475:VAL:HG21	1:I:518:LEU:HD22	1.71	0.72
1:K:199:SER:HA	1:L:324:ASP:OD2	1.88	0.72
1:M:448:GLN:HE21	1:M:487:LYS:HD2	1.55	0.72
1:N:221:GLY:HA3	1:O:214:THR:HB	1.69	0.72
1:N:640:PHE:HB2	2:c:108:ASP:OD2	1.89	0.72
1:N:643:VAL:HG21	2:c:105:LEU:HD21	1.70	0.72
1:A:342:GLN:HB2	1:A:443:THR:O	1.89	0.72
1:B:44:LYS:CD	3:g:117:ILE:CD1	2.62	0.72
1:C:643:VAL:HG21	2:P:105:LEU:HD21	1.70	0.72
1:H:199:SER:HA	1:I:324:ASP:OD2	1.88	0.72
1:I:452:ASN:OD1	1:J:526:THR:OG1	2.07	0.72
1:J:643:VAL:HG21	2:Y:105:LEU:HD21	1.70	0.72
1:K:342:GLN:HB2	1:K:443:THR:O	1.89	0.72
1:N:44:LYS:CD	3:r:117:ILE:CD1	2.62	0.72
1:A:44:LYS:CD	3:f:117:ILE:CD1	2.62	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:640:PHE:HB2	2:Q:108:ASP:OD2	1.89	0.72
1:C:201:ALA:O	1:C:205:LYS:HB2	1.88	0.72
1:K:459:VAL:O	1:K:475:VAL:HB	1.89	0.72
1:N:459:VAL:O	1:N:475:VAL:HB	1.89	0.72
1:E:201:ALA:O	1:E:205:LYS:HB2	1.88	0.72
1:H:640:PHE:HB2	2:W:108:ASP:OD2	1.89	0.72
1:I:448:GLN:HE21	1:I:487:LYS:HD2	1.55	0.72
1:J:448:GLN:HE21	1:J:487:LYS:HD2	1.55	0.72
1:K:201:ALA:O	1:K:205:LYS:HB2	1.88	0.72
1:L:640:PHE:HB2	2:a:108:ASP:OD2	1.89	0.72
1:M:411:ILE:HG22	1:N:372:THR:HG22	1.72	0.72
1:A:643:VAL:HG21	2:Q:105:LEU:HD21	1.70	0.72
1:B:640:PHE:HB2	2:R:108:ASP:OD2	1.89	0.72
1:K:448:GLN:HE21	1:K:487:LYS:HD2	1.55	0.72
1:A:459:VAL:O	1:A:475:VAL:HB	1.89	0.72
1:B:452:ASN:OD1	1:C:526:THR:OG1	2.07	0.72
1:C:342:GLN:HB2	1:C:443:THR:O	1.89	0.72
1:D:201:ALA:O	1:D:205:LYS:HB2	1.88	0.72
1:E:219:LEU:HD12	1:E:220:PRO:O	1.90	0.72
1:E:221:GLY:HA3	1:F:214:THR:HB	1.72	0.72
1:E:640:PHE:HB2	2:T:108:ASP:OD2	1.90	0.72
1:H:517:ASP:OD1	1:H:518:LEU:N	2.17	0.72
1:C:477:ARG:NH2	1:D:459:VAL:HG11	2.04	0.72
1:H:342:GLN:HB2	1:H:443:THR:O	1.89	0.72
1:H:448:GLN:HE21	1:H:487:LYS:HD2	1.55	0.72
1:J:491:ASN:CG	1:J:492:GLU:H	1.98	0.72
1:L:153:SER:HB2	1:L:167:GLY:H	1.55	0.72
1:L:491:ASN:CG	1:L:492:GLU:H	1.98	0.72
1:M:640:PHE:HB2	2:b:108:ASP:OD2	1.89	0.72
1:A:219:LEU:HD12	1:A:220:PRO:O	1.90	0.71
1:C:452:ASN:OD1	1:D:526:THR:OG1	2.07	0.71
1:D:219:LEU:HD12	1:D:220:PRO:O	1.90	0.71
1:F:219:LEU:HD12	1:F:220:PRO:O	1.90	0.71
1:G:153:SER:HB2	1:G:167:GLY:H	1.55	0.71
1:H:339:ARG:O	1:H:340:ARG:NE	2.23	0.71
1:J:475:VAL:HG21	1:K:518:LEU:HD22	1.72	0.71
1:K:640:PHE:HB2	2:Z:108:ASP:OD2	1.90	0.71
1:L:459:VAL:O	1:L:475:VAL:HB	1.89	0.71
1:M:219:LEU:HD12	1:M:220:PRO:O	1.90	0.71
1:O:640:PHE:HB2	2:d:108:ASP:OD2	1.89	0.71
1:C:640:PHE:HB2	2:P:108:ASP:OD2	1.89	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:448:GLN:HE21	1:D:487:LYS:HD2	1.55	0.71
1:J:342:GLN:HB2	1:J:443:THR:O	1.89	0.71
1:N:219:LEU:HD12	1:N:220:PRO:O	1.90	0.71
1:A:448:GLN:HE21	1:A:487:LYS:HD2	1.55	0.71
1:B:219:LEU:HD12	1:B:220:PRO:O	1.90	0.71
1:B:448:GLN:HE21	1:B:487:LYS:HD2	1.55	0.71
1:E:153:SER:HB2	1:E:167:GLY:H	1.55	0.71
1:G:491:ASN:CG	1:G:492:GLU:H	1.98	0.71
1:L:448:GLN:HE21	1:L:487:LYS:HD2	1.55	0.71
1:O:153:SER:HB2	1:O:167:GLY:H	1.56	0.71
1:B:44:LYS:HE2	1:C:63:ARG:NH1	2.04	0.71
1:B:44:LYS:HE2	1:C:63:ARG:HH11	1.54	0.71
1:I:491:ASN:CG	1:I:492:GLU:H	1.98	0.71
1:L:219:LEU:HD12	1:L:220:PRO:O	1.90	0.71
1:L:221:GLY:HA3	1:M:214:THR:HB	1.72	0.71
1:O:219:LEU:HD12	1:O:220:PRO:O	1.90	0.71
1:C:65:TYR:OH	3:g:113:PRO:HB3	1.91	0.71
1:E:448:GLN:HE21	1:E:487:LYS:HD2	1.55	0.71
1:G:219:LEU:HD12	1:G:220:PRO:O	1.90	0.71
1:H:325:VAL:O	1:H:328:ASP:OD1	2.09	0.71
1:H:491:ASN:CG	1:H:492:GLU:H	1.98	0.71
1:I:342:GLN:HB2	1:I:443:THR:O	1.89	0.71
1:J:640:PHE:HB2	2:Y:108:ASP:OD2	1.89	0.71
1:K:44:LYS:CD	3:o:117:ILE:CD1	2.61	0.71
1:K:325:VAL:O	1:K:328:ASP:OD1	2.09	0.71
1:K:339:ARG:O	1:K:340:ARG:NE	2.23	0.71
1:B:342:GLN:HB2	1:B:443:THR:O	1.89	0.71
1:C:153:SER:HB2	1:C:167:GLY:H	1.55	0.71
1:C:219:LEU:HD12	1:C:220:PRO:O	1.90	0.71
1:G:325:VAL:O	1:G:328:ASP:OD1	2.09	0.71
1:G:339:ARG:O	1:G:340:ARG:NE	2.23	0.71
1:I:339:ARG:O	1:I:340:ARG:NE	2.23	0.71
1:L:339:ARG:O	1:L:340:ARG:NE	2.23	0.71
1:B:153:SER:HB2	1:B:167:GLY:H	1.56	0.71
1:D:44:LYS:HE2	1:E:63:ARG:NH1	2.04	0.71
1:F:411:ILE:HG22	1:G:372:THR:HG22	1.73	0.71
1:H:221:GLY:HA3	1:I:214:THR:HB	1.72	0.71
1:I:153:SER:HB2	1:I:167:GLY:H	1.55	0.71
1:J:65:TYR:OH	3:m:113:PRO:HB3	1.90	0.71
1:K:219:LEU:HD12	1:K:220:PRO:O	1.90	0.71
1:K:475:VAL:HG21	1:L:518:LEU:HD22	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:219:LEU:CD1	1:A:222:SER:O	2.39	0.71
1:A:477:ARG:NH2	1:B:459:VAL:HG11	2.05	0.71
1:D:475:VAL:HG21	1:E:518:LEU:HD22	1.73	0.71
1:E:475:VAL:HG21	1:F:518:LEU:HD22	1.73	0.71
1:I:411:ILE:HG22	1:J:372:THR:HG22	1.72	0.71
1:L:325:VAL:O	1:L:328:ASP:OD1	2.09	0.71
1:L:477:ARG:NH2	1:M:459:VAL:HG11	2.05	0.71
1:N:475:VAL:HG21	1:O:518:LEU:HD22	1.73	0.71
1:N:491:ASN:CG	1:N:492:GLU:H	1.98	0.71
1:O:459:VAL:O	1:O:475:VAL:HB	1.89	0.71
1:B:219:LEU:CD1	1:B:222:SER:O	2.39	0.71
1:I:640:PHE:HB2	2:X:108:ASP:OD2	1.90	0.71
1:O:219:LEU:CD1	1:O:222:SER:O	2.39	0.71
1:C:219:LEU:CD1	1:C:222:SER:O	2.39	0.71
1:C:339:ARG:O	1:C:340:ARG:NE	2.23	0.71
1:D:640:PHE:HB2	2:S:108:ASP:OD2	1.89	0.71
1:E:219:LEU:CD1	1:E:222:SER:O	2.39	0.71
1:E:491:ASN:CG	1:E:492:GLU:H	1.98	0.71
1:J:174:ARG:O	1:J:178:ILE:HG12	1.91	0.71
1:J:219:LEU:HD12	1:J:220:PRO:O	1.90	0.71
1:A:63:ARG:HH11	1:O:44:LYS:HE2	1.56	0.70
1:A:221:GLY:HA3	1:B:214:THR:HB	1.72	0.70
1:B:477:ARG:NH2	1:C:459:VAL:HG11	2.05	0.70
1:C:44:LYS:HE2	1:D:63:ARG:NH1	2.06	0.70
1:D:411:ILE:HG22	1:E:372:THR:HG22	1.73	0.70
1:E:477:ARG:NH2	1:F:459:VAL:HG11	2.06	0.70
1:J:325:VAL:O	1:J:328:ASP:OD1	2.09	0.70
1:K:174:ARG:O	1:K:178:ILE:HG12	1.91	0.70
1:L:45:ASN:HB3	3:p:108:LEU:HD21	1.72	0.70
1:N:448:GLN:HE21	1:N:487:LYS:HD2	1.55	0.70
1:O:491:ASN:CG	1:O:492:GLU:H	1.98	0.70
1:A:475:VAL:CG2	1:B:518:LEU:HD22	2.21	0.70
1:G:219:LEU:CD1	1:G:222:SER:O	2.39	0.70
1:I:44:LYS:HE2	1:J:63:ARG:HH11	1.56	0.70
1:I:174:ARG:O	1:I:178:ILE:HG12	1.91	0.70
1:J:339:ARG:O	1:J:340:ARG:NE	2.23	0.70
1:K:491:ASN:CG	1:K:492:GLU:H	1.98	0.70
1:N:219:LEU:CD1	1:N:222:SER:O	2.39	0.70
1:A:518:LEU:HD22	1:O:475:VAL:HG21	1.73	0.70
1:B:339:ARG:O	1:B:340:ARG:NE	2.23	0.70
1:D:219:LEU:CD1	1:D:222:SER:O	2.39	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:448:GLN:HE21	1:G:487:LYS:HD2	1.55	0.70
1:H:411:ILE:HG22	1:I:372:THR:HG22	1.73	0.70
1:I:325:VAL:O	1:I:328:ASP:OD1	2.09	0.70
1:J:411:ILE:HG22	1:K:372:THR:HG22	1.73	0.70
1:J:452:ASN:OD1	1:K:526:THR:OG1	2.09	0.70
1:N:477:ARG:NH2	1:O:459:VAL:HG11	2.05	0.70
2:d:76:ALA:CB	2:d:130:LEU:CD1	2.70	0.70
1:A:262:GLN:HB3	1:B:331:ARG:NH2	2.06	0.70
1:B:491:ASN:CG	1:B:492:GLU:H	1.98	0.70
1:I:219:LEU:HD12	1:I:220:PRO:O	1.90	0.70
1:J:153:SER:HB2	1:J:167:GLY:H	1.56	0.70
1:L:174:ARG:O	1:L:178:ILE:HG12	1.91	0.70
1:M:45:ASN:HB3	3:q:108:LEU:HD21	1.72	0.70
1:M:491:ASN:CG	1:M:492:GLU:H	1.98	0.70
1:N:153:SER:HB2	1:N:167:GLY:H	1.56	0.70
2:P:76:ALA:CB	2:P:130:LEU:CD1	2.70	0.70
1:E:339:ARG:O	1:E:340:ARG:NE	2.23	0.70
1:G:174:ARG:O	1:G:178:ILE:HG12	1.91	0.70
1:H:174:ARG:O	1:H:178:ILE:HG12	1.91	0.70
1:H:219:LEU:CD1	1:H:222:SER:O	2.39	0.70
1:H:219:LEU:HD12	1:H:220:PRO:O	1.90	0.70
1:L:452:ASN:OD1	1:M:526:THR:OG1	2.09	0.70
1:M:153:SER:HB2	1:M:167:GLY:H	1.55	0.70
1:E:411:ILE:HG22	1:F:372:THR:HG22	1.73	0.70
1:F:153:SER:HB2	1:F:167:GLY:H	1.56	0.70
1:F:174:ARG:O	1:F:178:ILE:HG12	1.91	0.70
1:F:325:VAL:O	1:F:328:ASP:OD1	2.09	0.70
1:I:219:LEU:CD1	1:I:222:SER:O	2.39	0.70
1:J:199:SER:HA	1:K:324:ASP:CG	2.15	0.70
1:M:219:LEU:CD1	1:M:222:SER:O	2.39	0.70
1:M:339:ARG:O	1:M:340:ARG:NE	2.23	0.70
2:Q:76:ALA:CB	2:Q:130:LEU:CD1	2.70	0.70
2:S:76:ALA:CB	2:S:130:LEU:CD1	2.70	0.70
1:D:44:LYS:CD	3:h:117:ILE:CD1	2.62	0.70
1:D:325:VAL:O	1:D:328:ASP:OD1	2.09	0.70
1:D:339:ARG:O	1:D:340:ARG:NE	2.23	0.70
1:J:219:LEU:CD1	1:J:222:SER:O	2.39	0.70
1:O:174:ARG:O	1:O:178:ILE:HG12	1.91	0.70
1:C:325:VAL:O	1:C:328:ASP:OD1	2.09	0.70
1:F:219:LEU:CD1	1:F:222:SER:O	2.39	0.70
1:G:199:SER:HA	1:H:324:ASP:CG	2.17	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:69:ASN:HA	1:H:73:TYR:HB2	1.73	0.70
1:I:69:ASN:HA	1:I:73:TYR:HB2	1.73	0.70
1:K:45:ASN:HB3	3:o:108:LEU:HD21	1.72	0.70
1:K:452:ASN:OD1	1:L:526:THR:OG1	2.10	0.70
1:N:174:ARG:O	1:N:178:ILE:HG12	1.91	0.70
1:A:214:THR:HB	1:O:221:GLY:HA3	1.71	0.70
1:A:452:ASN:OD1	1:B:526:THR:OG1	2.09	0.70
1:B:325:VAL:O	1:B:328:ASP:OD1	2.09	0.70
1:B:411:ILE:HG22	1:C:372:THR:HG22	1.74	0.70
1:C:491:ASN:CG	1:C:492:GLU:H	1.98	0.70
1:D:45:ASN:HB3	3:h:108:LEU:HD21	1.72	0.70
1:D:452:ASN:OD1	1:E:526:THR:OG1	2.09	0.70
1:F:339:ARG:O	1:F:340:ARG:NE	2.23	0.70
1:K:219:LEU:CD1	1:K:222:SER:O	2.39	0.70
1:M:199:SER:HA	1:N:324:ASP:CG	2.17	0.70
1:M:325:VAL:O	1:M:328:ASP:OD1	2.09	0.70
2:c:76:ALA:CB	2:c:130:LEU:CD1	2.70	0.70
1:D:491:ASN:CG	1:D:492:GLU:H	1.98	0.70
1:F:491:ASN:CG	1:F:492:GLU:H	1.98	0.70
1:J:69:ASN:HA	1:J:73:TYR:HB2	1.73	0.70
1:K:69:ASN:HA	1:K:73:TYR:HB2	1.73	0.70
1:L:219:LEU:CD1	1:L:222:SER:O	2.39	0.70
2:X:76:ALA:CB	2:X:130:LEU:CD1	2.70	0.70
1:A:325:VAL:O	1:A:328:ASP:OD1	2.09	0.69
1:D:174:ARG:O	1:D:178:ILE:HG12	1.91	0.69
1:H:44:LYS:HE2	1:I:63:ARG:NH1	2.07	0.69
1:K:153:SER:HB2	1:K:167:GLY:H	1.55	0.69
1:M:174:ARG:O	1:M:178:ILE:HG12	1.91	0.69
1:O:339:ARG:O	1:O:340:ARG:NE	2.23	0.69
2:W:76:ALA:CB	2:W:130:LEU:CD1	2.70	0.69
1:A:44:LYS:HE2	1:B:63:ARG:NH1	2.06	0.69
1:A:174:ARG:O	1:A:178:ILE:HG12	1.91	0.69
1:C:69:ASN:HA	1:C:73:TYR:HB2	1.73	0.69
1:C:174:ARG:O	1:C:178:ILE:HG12	1.91	0.69
1:E:325:VAL:O	1:E:328:ASP:OD1	2.09	0.69
1:F:44:LYS:HE2	1:G:63:ARG:HH11	1.56	0.69
1:F:69:ASN:HA	1:F:73:TYR:HB2	1.73	0.69
1:H:153:SER:HB2	1:H:167:GLY:H	1.56	0.69
1:A:69:ASN:HA	1:A:73:TYR:HB2	1.73	0.69
1:C:39:ILE:O	1:C:43:SER:HB3	1.93	0.69
1:E:39:ILE:O	1:E:43:SER:HB3	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:174:ARG:O	1:E:178:ILE:HG12	1.91	0.69
1:G:69:ASN:HA	1:G:73:TYR:HB2	1.73	0.69
1:J:39:ILE:O	1:J:43:SER:HB3	1.93	0.69
1:O:69:ASN:HA	1:O:73:TYR:HB2	1.73	0.69
1:O:325:VAL:O	1:O:328:ASP:OD1	2.09	0.69
2:R:76:ALA:CB	2:R:130:LEU:CD1	2.70	0.69
2:Z:76:ALA:CB	2:Z:130:LEU:CD1	2.70	0.69
1:A:339:ARG:O	1:A:340:ARG:NE	2.23	0.69
1:A:491:ASN:CG	1:A:492:GLU:H	1.98	0.69
1:B:69:ASN:HA	1:B:73:TYR:HB2	1.73	0.69
1:B:174:ARG:O	1:B:178:ILE:HG12	1.91	0.69
1:C:254:GLN:O	1:C:257:ARG:NH1	2.26	0.69
2:T:76:ALA:CB	2:T:130:LEU:CD1	2.70	0.69
1:A:65:TYR:OH	3:s:113:PRO:HB3	1.91	0.69
1:A:538:THR:HG1	1:O:628:LEU:HB3	1.57	0.69
1:E:254:GLN:O	1:E:257:ARG:NH1	2.26	0.69
1:L:39:ILE:O	1:L:43:SER:HB3	1.93	0.69
1:L:254:GLN:O	1:L:257:ARG:NH1	2.26	0.69
1:O:219:LEU:HB2	1:O:220:PRO:CD	2.23	0.69
1:O:318:ILE:CG2	1:O:319:VAL:N	2.56	0.69
1:A:39:ILE:O	1:A:43:SER:HB3	1.93	0.69
1:A:254:GLN:O	1:A:257:ARG:NH1	2.26	0.69
1:G:219:LEU:HB2	1:G:220:PRO:CD	2.23	0.69
1:G:411:ILE:HG22	1:H:372:THR:HG22	1.73	0.69
1:I:254:GLN:O	1:I:257:ARG:NH1	2.26	0.69
1:K:221:GLY:HA3	1:L:214:THR:HB	1.74	0.69
1:L:69:ASN:HA	1:L:73:TYR:HB2	1.73	0.69
1:N:39:ILE:O	1:N:43:SER:HB3	1.93	0.69
1:N:325:VAL:O	1:N:328:ASP:OD1	2.09	0.69
1:N:339:ARG:O	1:N:340:ARG:NE	2.23	0.69
2:a:76:ALA:CB	2:a:130:LEU:CD1	2.70	0.69
1:A:153:SER:HB2	1:A:167:GLY:H	1.56	0.69
1:C:44:LYS:HE2	1:D:63:ARG:HH11	1.57	0.69
1:D:69:ASN:HA	1:D:73:TYR:HB2	1.73	0.69
1:E:44:LYS:HE2	1:F:63:ARG:NH1	2.08	0.69
1:G:39:ILE:O	1:G:43:SER:HB3	1.93	0.69
1:J:477:ARG:NH2	1:K:459:VAL:HG11	2.07	0.69
1:N:69:ASN:HA	1:N:73:TYR:HB2	1.73	0.69
1:N:219:LEU:HB2	1:N:220:PRO:CD	2.23	0.69
1:N:254:GLN:O	1:N:257:ARG:NH1	2.26	0.69
2:U:76:ALA:CB	2:U:130:LEU:CD1	2.70	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:68:PRO:HG3	2:V:130:LEU:HD21	1.75	0.69
2:W:68:PRO:HG3	2:W:130:LEU:HD21	1.75	0.69
2:d:68:PRO:HG3	2:d:130:LEU:HD21	1.75	0.69
1:A:219:LEU:HB2	1:A:220:PRO:CD	2.23	0.69
1:B:254:GLN:O	1:B:257:ARG:NH1	2.26	0.69
1:D:254:GLN:O	1:D:257:ARG:NH1	2.26	0.69
1:F:219:LEU:HB2	1:F:220:PRO:CD	2.23	0.69
1:H:39:ILE:O	1:H:43:SER:HB3	1.93	0.69
1:H:219:LEU:HB2	1:H:220:PRO:CD	2.23	0.69
1:H:254:GLN:O	1:H:257:ARG:NH1	2.26	0.69
1:J:254:GLN:O	1:J:257:ARG:NH1	2.26	0.69
1:K:254:GLN:O	1:K:257:ARG:NH1	2.26	0.69
1:L:318:ILE:CG2	1:L:319:VAL:N	2.56	0.69
1:L:411:ILE:HG22	1:M:372:THR:HG22	1.73	0.69
1:M:254:GLN:O	1:M:257:ARG:NH1	2.26	0.69
1:M:318:ILE:CG2	1:M:319:VAL:N	2.56	0.69
1:O:39:ILE:O	1:O:43:SER:HB3	1.93	0.69
2:Q:68:PRO:HG3	2:Q:130:LEU:HD21	1.75	0.69
2:S:68:PRO:HG3	2:S:130:LEU:HD21	1.75	0.69
2:T:68:PRO:HG3	2:T:130:LEU:HD21	1.75	0.69
2:Y:76:ALA:CB	2:Y:130:LEU:CD1	2.70	0.69
2:b:68:PRO:HG3	2:b:130:LEU:HD21	1.75	0.69
2:b:76:ALA:CB	2:b:130:LEU:CD1	2.70	0.69
1:B:318:ILE:CG2	1:B:319:VAL:N	2.56	0.69
1:C:411:ILE:HG22	1:D:372:THR:HG22	1.74	0.69
1:D:44:LYS:HE2	1:E:63:ARG:HH11	1.55	0.69
1:E:69:ASN:HA	1:E:73:TYR:HB2	1.73	0.69
1:F:39:ILE:O	1:F:43:SER:HB3	1.93	0.69
1:H:452:ASN:OD1	1:I:526:THR:OG1	2.11	0.69
1:H:477:ARG:NH2	1:I:459:VAL:HG11	2.07	0.69
1:M:219:LEU:HB2	1:M:220:PRO:CD	2.23	0.69
2:Y:68:PRO:HG3	2:Y:130:LEU:HD21	1.75	0.69
2:a:68:PRO:HG3	2:a:130:LEU:HD21	1.75	0.69
1:B:219:LEU:HB2	1:B:220:PRO:CD	2.23	0.69
1:D:65:TYR:OH	3:e:113:PRO:HB3	1.93	0.69
1:E:219:LEU:HB2	1:E:220:PRO:CD	2.23	0.69
1:I:39:ILE:O	1:I:43:SER:HB3	1.93	0.69
1:I:475:VAL:CG2	1:J:518:LEU:HD22	2.22	0.69
1:J:318:ILE:CG2	1:J:319:VAL:N	2.56	0.69
1:N:318:ILE:CG2	1:N:319:VAL:N	2.56	0.69
1:N:452:ASN:OD1	1:O:526:THR:OG1	2.11	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:c:68:PRO:HG3	2:c:130:LEU:HD21	1.75	0.69
1:A:63:ARG:NH1	1:O:44:LYS:HE2	2.07	0.68
1:A:459:VAL:HG11	1:O:477:ARG:NH2	2.07	0.68
1:F:254:GLN:O	1:F:257:ARG:NH1	2.26	0.68
1:G:254:GLN:O	1:G:257:ARG:NH1	2.26	0.68
2:P:68:PRO:HG3	2:P:130:LEU:HD21	1.75	0.68
2:R:68:PRO:HG3	2:R:130:LEU:HD21	1.75	0.68
1:B:39:ILE:O	1:B:43:SER:HB3	1.93	0.68
1:D:517:ASP:C	1:D:518:LEU:HD12	2.19	0.68
1:F:517:ASP:C	1:F:518:LEU:HD12	2.19	0.68
1:I:219:LEU:HB2	1:I:220:PRO:CD	2.23	0.68
1:J:65:TYR:HH	3:m:113:PRO:HB2	1.56	0.68
1:K:45:ASN:CB	3:o:108:LEU:CD2	2.46	0.68
1:O:254:GLN:O	1:O:257:ARG:NH1	2.26	0.68
2:U:68:PRO:HG3	2:U:130:LEU:HD21	1.75	0.68
2:Z:68:PRO:HG3	2:Z:130:LEU:HD21	1.75	0.68
1:D:153:SER:HB2	1:D:167:GLY:H	1.56	0.68
1:F:318:ILE:CG2	1:F:319:VAL:N	2.56	0.68
1:M:39:ILE:O	1:M:43:SER:HB3	1.93	0.68
1:M:69:ASN:HA	1:M:73:TYR:HB2	1.73	0.68
1:A:437:ALA:HA	1:B:546:ASP:OD1	1.92	0.68
1:E:65:TYR:OH	3:h:113:PRO:HB3	1.92	0.68
1:J:45:ASN:HB3	3:n:108:LEU:HD21	1.72	0.68
1:K:517:ASP:C	1:K:518:LEU:HD12	2.19	0.68
1:L:475:VAL:CG2	1:M:518:LEU:HD22	2.22	0.68
2:X:68:PRO:HG3	2:X:130:LEU:HD21	1.75	0.68
1:A:526:THR:OG1	1:O:452:ASN:OD1	2.11	0.68
1:C:219:LEU:HB2	1:C:220:PRO:CD	2.23	0.68
1:F:475:VAL:CG2	1:G:518:LEU:HD22	2.23	0.68
1:H:318:ILE:CG2	1:H:319:VAL:N	2.56	0.68
1:H:517:ASP:C	1:H:518:LEU:HD12	2.19	0.68
1:K:39:ILE:O	1:K:43:SER:HB3	1.93	0.68
1:L:517:ASP:C	1:L:518:LEU:HD12	2.19	0.68
1:O:517:ASP:C	1:O:518:LEU:HD12	2.19	0.68
1:B:517:ASP:C	1:B:518:LEU:HD12	2.19	0.68
1:A:372:THR:HG22	1:O:411:ILE:HG22	1.76	0.68
1:B:475:VAL:CG2	1:C:518:LEU:HD22	2.24	0.68
1:D:39:ILE:O	1:D:43:SER:HB3	1.93	0.68
1:D:219:LEU:HB2	1:D:220:PRO:CD	2.23	0.68
1:D:259:GLN:OE1	1:D:262:GLN:NE2	2.27	0.68
1:E:318:ILE:CG2	1:E:319:VAL:N	2.56	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:318:ILE:CG2	1:K:319:VAL:N	2.56	0.68
1:K:411:ILE:HG22	1:L:372:THR:HG22	1.75	0.68
1:N:517:ASP:C	1:N:518:LEU:HD12	2.19	0.68
1:A:318:ILE:CG2	1:A:319:VAL:N	2.56	0.68
1:A:517:ASP:C	1:A:518:LEU:HD12	2.19	0.68
1:C:259:GLN:OE1	1:C:262:GLN:NE2	2.27	0.68
1:C:318:ILE:CG2	1:C:319:VAL:N	2.56	0.68
1:J:219:LEU:HB2	1:J:220:PRO:CD	2.23	0.68
2:V:76:ALA:CB	2:V:130:LEU:CD1	2.70	0.68
1:A:349:ILE:HG12	1:A:437:ALA:HB3	1.76	0.68
1:B:259:GLN:OE1	1:B:262:GLN:NE2	2.27	0.68
1:F:45:ASN:HB3	3:j:108:LEU:HD21	1.72	0.68
1:L:219:LEU:HB2	1:L:220:PRO:CD	2.23	0.68
1:M:475:VAL:CG2	1:N:518:LEU:HD22	2.24	0.68
1:B:349:ILE:HG12	1:B:437:ALA:HB3	1.76	0.68
1:C:517:ASP:C	1:C:518:LEU:HD12	2.19	0.68
1:G:318:ILE:CG2	1:G:319:VAL:N	2.56	0.68
1:N:259:GLN:OE1	1:N:262:GLN:NE2	2.27	0.68
1:C:199:SER:HA	1:D:324:ASP:CG	2.19	0.67
1:C:475:VAL:CG2	1:D:518:LEU:HD22	2.25	0.67
1:D:318:ILE:CG2	1:D:319:VAL:N	2.56	0.67
1:E:259:GLN:OE1	1:E:262:GLN:NE2	2.27	0.67
1:F:45:ASN:CG	3:j:108:LEU:HD21	2.19	0.67
1:M:259:GLN:OE1	1:M:262:GLN:NE2	2.27	0.67
1:O:349:ILE:HG12	1:O:437:ALA:HB3	1.76	0.67
1:C:349:ILE:HG12	1:C:437:ALA:HB3	1.76	0.67
1:E:45:ASN:CG	3:i:108:LEU:HD21	2.19	0.67
1:E:517:ASP:C	1:E:518:LEU:HD12	2.19	0.67
1:F:477:ARG:NH2	1:G:459:VAL:HG11	2.08	0.67
1:G:475:VAL:CG2	1:H:518:LEU:HD22	2.24	0.67
1:I:318:ILE:CG2	1:I:319:VAL:N	2.56	0.67
1:J:45:ASN:CG	3:n:108:LEU:HD21	2.19	0.67
1:J:262:GLN:HB3	1:K:331:ARG:NH2	2.08	0.67
1:K:45:ASN:CG	3:o:108:LEU:HD21	2.19	0.67
1:N:44:LYS:HE2	1:O:63:ARG:NH1	2.07	0.67
1:K:259:GLN:OE1	1:K:262:GLN:NE2	2.27	0.67
1:M:477:ARG:NH2	1:N:459:VAL:HG11	2.07	0.67
1:E:475:VAL:CG2	1:F:518:LEU:HD22	2.25	0.67
1:H:259:GLN:OE1	1:H:262:GLN:NE2	2.27	0.67
1:I:45:ASN:CG	3:m:108:LEU:HD21	2.19	0.67
1:O:259:GLN:OE1	1:O:262:GLN:NE2	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:45:LEU:HD21	2:P:97:ASN:ND2	2.10	0.67
2:S:45:LEU:HD21	2:S:97:ASN:ND2	2.10	0.67
2:X:45:LEU:HD21	2:X:97:ASN:ND2	2.10	0.67
1:G:45:ASN:CG	3:k:108:LEU:HD21	2.19	0.67
1:H:45:ASN:HB3	3:l:108:LEU:HD21	1.72	0.67
1:H:475:VAL:CG2	1:I:518:LEU:HD22	2.24	0.67
1:I:517:ASP:C	1:I:518:LEU:HD12	2.19	0.67
1:N:45:ASN:CG	3:r:108:LEU:HD21	2.19	0.67
1:N:199:SER:HA	1:O:324:ASP:CG	2.19	0.67
1:O:45:ASN:CG	3:s:108:LEU:HD21	2.19	0.67
2:Y:45:LEU:HD21	2:Y:97:ASN:ND2	2.10	0.67
2:d:45:LEU:HD21	2:d:97:ASN:ND2	2.10	0.67
1:A:45:ASN:HB3	3:f:108:LEU:HD21	1.72	0.67
1:D:45:ASN:CG	3:h:108:LEU:HD21	2.19	0.67
1:I:44:LYS:HE2	1:J:63:ARG:NH1	2.08	0.67
1:I:349:ILE:HG12	1:I:437:ALA:HB3	1.76	0.67
1:J:349:ILE:HG12	1:J:437:ALA:HB3	1.76	0.67
1:J:437:ALA:HA	1:K:546:ASP:OD1	1.95	0.67
1:K:219:LEU:HB2	1:K:220:PRO:CD	2.23	0.67
2:R:45:LEU:HD21	2:R:97:ASN:ND2	2.10	0.67
2:W:45:LEU:HD21	2:W:97:ASN:ND2	2.10	0.67
2:Z:45:LEU:HD21	2:Z:97:ASN:ND2	2.10	0.67
1:B:45:ASN:HB3	3:g:108:LEU:HD21	1.72	0.67
1:D:477:ARG:NH2	1:E:459:VAL:HG11	2.09	0.67
1:G:44:LYS:CD	3:k:117:ILE:CD1	2.61	0.67
1:J:517:ASP:C	1:J:518:LEU:HD12	2.19	0.67
1:N:349:ILE:HG12	1:N:437:ALA:HB3	1.77	0.67
1:A:199:SER:HA	1:B:324:ASP:CG	2.19	0.67
1:B:45:ASN:CG	3:g:108:LEU:HD21	2.19	0.67
1:B:199:SER:HA	1:C:324:ASP:CG	2.20	0.67
1:I:259:GLN:OE1	1:I:262:GLN:NE2	2.27	0.67
1:K:44:LYS:HE2	1:L:63:ARG:NH1	2.09	0.67
1:L:44:LYS:HE2	1:M:63:ARG:HH11	1.60	0.67
1:L:45:ASN:CG	3:p:108:LEU:HD21	2.19	0.67
1:M:517:ASP:C	1:M:518:LEU:HD12	2.19	0.67
1:N:411:ILE:HG22	1:O:372:THR:HG22	1.75	0.67
2:Q:45:LEU:HD21	2:Q:97:ASN:ND2	2.10	0.67
2:T:45:LEU:HD21	2:T:97:ASN:ND2	2.10	0.67
1:G:45:ASN:HB3	3:k:108:LEU:HD21	1.72	0.67
1:G:517:ASP:C	1:G:518:LEU:HD12	2.19	0.67
1:H:349:ILE:HG12	1:H:437:ALA:HB3	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:259:GLN:OE1	1:L:262:GLN:NE2	2.27	0.67
1:M:437:ALA:HA	1:N:546:ASP:OD1	1.95	0.67
1:O:45:ASN:HB3	3:s:108:LEU:HD21	1.72	0.67
2:c:45:LEU:HD21	2:c:97:ASN:ND2	2.10	0.67
1:A:259:GLN:OE1	1:A:262:GLN:NE2	2.27	0.67
1:A:611:GLN:NE2	1:A:612:THR:CG2	2.58	0.67
1:C:45:ASN:CG	3:e:108:LEU:HD21	2.19	0.67
1:G:65:TYR:OH	3:j:113:PRO:HB3	1.95	0.67
1:H:45:ASN:CG	3:l:108:LEU:HD21	2.19	0.67
1:I:517:ASP:CG	1:I:518:LEU:H	2.03	0.67
1:M:306:ILE:HG23	1:M:321:ALA:HB2	1.77	0.67
1:N:306:ILE:HG23	1:N:321:ALA:HB2	1.77	0.67
2:a:45:LEU:HD21	2:a:97:ASN:ND2	2.10	0.67
1:C:45:ASN:HB3	3:e:108:LEU:HD21	1.72	0.66
1:D:349:ILE:HG12	1:D:437:ALA:HB3	1.76	0.66
1:E:262:GLN:HB3	1:F:331:ARG:NH2	2.10	0.66
1:F:259:GLN:OE1	1:F:262:GLN:NE2	2.27	0.66
1:F:611:GLN:NE2	1:F:612:THR:CG2	2.59	0.66
1:H:611:GLN:NE2	1:H:612:THR:CG2	2.58	0.66
1:I:199:SER:HA	1:J:324:ASP:CG	2.20	0.66
1:J:259:GLN:OE1	1:J:262:GLN:NE2	2.27	0.66
1:G:259:GLN:OE1	1:G:262:GLN:NE2	2.27	0.66
1:G:628:LEU:HB3	1:H:538:THR:HG1	1.60	0.66
1:H:491:ASN:OD1	1:H:495:ALA:HB3	1.96	0.66
1:K:65:TYR:OH	3:n:113:PRO:HB3	1.96	0.66
1:K:349:ILE:HG12	1:K:437:ALA:HB3	1.76	0.66
1:M:349:ILE:HG12	1:M:437:ALA:HB3	1.76	0.66
1:O:306:ILE:HG23	1:O:321:ALA:HB2	1.77	0.66
2:V:45:LEU:HD21	2:V:97:ASN:ND2	2.10	0.66
1:A:306:ILE:HG23	1:A:321:ALA:HB2	1.77	0.66
1:A:476:GLU:HG2	1:A:477:ARG:H	1.61	0.66
1:E:520:ALA:HB1	1:E:522:PHE:CE2	2.31	0.66
1:G:349:ILE:HG12	1:G:437:ALA:HB3	1.76	0.66
1:L:44:LYS:HE2	1:M:63:ARG:NH1	2.09	0.66
1:L:517:ASP:CG	1:L:518:LEU:H	2.03	0.66
1:M:491:ASN:OD1	1:M:495:ALA:HB3	1.96	0.66
1:N:611:GLN:NE2	1:N:612:THR:CG2	2.58	0.66
1:B:306:ILE:HG23	1:B:321:ALA:HB2	1.77	0.66
1:C:476:GLU:HG2	1:C:477:ARG:H	1.61	0.66
1:C:611:GLN:NE2	1:C:612:THR:CG2	2.59	0.66
1:D:520:ALA:HB1	1:D:522:PHE:CE2	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:437:ALA:HA	1:G:546:ASP:OD1	1.96	0.66
1:F:517:ASP:CG	1:F:518:LEU:H	2.03	0.66
1:F:520:ALA:HB1	1:F:522:PHE:CE2	2.31	0.66
1:G:491:ASN:OD1	1:G:495:ALA:HB3	1.96	0.66
1:L:520:ALA:HB1	1:L:522:PHE:CE2	2.31	0.66
1:N:475:VAL:CG2	1:O:518:LEU:HD22	2.25	0.66
1:C:520:ALA:HB1	1:C:522:PHE:CE2	2.31	0.66
1:E:199:SER:HA	1:F:324:ASP:CG	2.19	0.66
1:E:452:ASN:OD1	1:F:526:THR:OG1	2.13	0.66
1:H:44:LYS:HE2	1:I:63:ARG:HH11	1.59	0.66
1:H:517:ASP:CG	1:H:518:LEU:H	2.03	0.66
1:J:214:THR:OG1	1:J:216:LYS:O	2.14	0.66
1:K:611:GLN:NE2	1:K:612:THR:CG2	2.59	0.66
1:L:214:THR:OG1	1:L:216:LYS:O	2.14	0.66
1:M:45:ASN:CG	3:q:108:LEU:HD21	2.19	0.66
1:M:520:ALA:HB1	1:M:522:PHE:CE2	2.31	0.66
1:N:476:GLU:HG2	1:N:477:ARG:H	1.61	0.66
1:A:520:ALA:HB1	1:A:522:PHE:CE2	2.31	0.66
1:B:491:ASN:OD1	1:B:495:ALA:HB3	1.96	0.66
1:C:491:ASN:OD1	1:C:495:ALA:HB3	1.95	0.66
1:E:45:ASN:HB3	3:i:108:LEU:HD21	1.72	0.66
1:H:476:GLU:HG2	1:H:477:ARG:H	1.61	0.66
1:L:306:ILE:HG23	1:L:321:ALA:HB2	1.77	0.66
1:M:611:GLN:NE2	1:M:612:THR:CG2	2.59	0.66
1:A:44:LYS:HE2	1:B:63:ARG:HH11	1.60	0.66
1:A:491:ASN:OD1	1:A:495:ALA:HB3	1.96	0.66
1:E:611:GLN:NE2	1:E:612:THR:CG2	2.58	0.66
1:F:262:GLN:HB3	1:G:331:ARG:NH2	2.11	0.66
1:G:520:ALA:HB1	1:G:522:PHE:CE2	2.31	0.66
1:I:45:ASN:HB3	3:m:108:LEU:HD21	1.72	0.66
1:I:65:TYR:OH	3:l:113:PRO:HB3	1.95	0.66
1:I:491:ASN:OD1	1:I:495:ALA:HB3	1.96	0.66
1:I:611:GLN:NE2	1:I:612:THR:CG2	2.59	0.66
1:J:475:VAL:CG2	1:K:518:LEU:HD22	2.25	0.66
1:J:491:ASN:OD1	1:J:495:ALA:HB3	1.95	0.66
1:K:517:ASP:CG	1:K:518:LEU:H	2.03	0.66
1:K:520:ALA:HB1	1:K:522:PHE:CE2	2.31	0.66
1:N:214:THR:OG1	1:N:216:LYS:O	2.14	0.66
1:O:491:ASN:OD1	1:O:495:ALA:HB3	1.96	0.66
2:U:45:LEU:HD21	2:U:97:ASN:ND2	2.10	0.66
2:c:54:GLY:C	2:c:123:LEU:HD11	2.21	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:520:ALA:HB1	1:B:522:PHE:CE2	2.31	0.66
1:C:306:ILE:HG23	1:C:321:ALA:HB2	1.77	0.66
1:D:199:SER:HA	1:E:324:ASP:CG	2.21	0.66
1:K:306:ILE:HG23	1:K:321:ALA:HB2	1.77	0.66
1:K:491:ASN:OD1	1:K:495:ALA:HB3	1.95	0.66
1:L:476:GLU:HG2	1:L:477:ARG:H	1.61	0.66
2:b:45:LEU:HD21	2:b:97:ASN:ND2	2.10	0.66
2:d:54:GLY:C	2:d:123:LEU:HD11	2.21	0.66
1:B:174:ARG:HG3	1:B:175:LEU:HD22	1.78	0.66
1:F:491:ASN:OD1	1:F:495:ALA:HB3	1.95	0.66
1:H:214:THR:OG1	1:H:216:LYS:O	2.14	0.66
1:I:476:GLU:HG2	1:I:477:ARG:H	1.61	0.66
1:J:161:ASN:ND2	1:K:223:MET:SD	2.69	0.66
1:J:611:GLN:NE2	1:J:612:THR:CG2	2.58	0.66
1:K:476:GLU:HG2	1:K:477:ARG:H	1.61	0.66
1:K:477:ARG:NH2	1:L:459:VAL:HG11	2.09	0.66
1:L:349:ILE:HG12	1:L:437:ALA:HB3	1.76	0.66
2:T:54:GLY:C	2:T:123:LEU:HD11	2.21	0.66
1:A:174:ARG:HG3	1:A:175:LEU:HD22	1.78	0.66
1:C:517:ASP:CG	1:C:518:LEU:H	2.03	0.66
1:F:349:ILE:HG12	1:F:437:ALA:HB3	1.76	0.66
1:F:476:GLU:HG2	1:F:477:ARG:H	1.61	0.66
1:G:107:SER:HA	1:H:171:VAL:HG22	1.78	0.66
1:O:390:GLN:NE2	1:O:394:ASP:OD2	2.28	0.66
1:O:611:GLN:NE2	1:O:612:THR:CG2	2.58	0.66
2:U:54:GLY:C	2:U:123:LEU:HD11	2.21	0.66
2:X:54:GLY:C	2:X:123:LEU:HD11	2.21	0.66
2:b:54:GLY:C	2:b:123:LEU:HD11	2.21	0.66
1:A:45:ASN:CG	3:f:108:LEU:HD21	2.19	0.65
1:E:476:GLU:HG2	1:E:477:ARG:H	1.61	0.65
1:F:591:ARG:N	1:F:595:GLU:OE1	2.27	0.65
1:H:520:ALA:HB1	1:H:522:PHE:CE2	2.31	0.65
1:H:611:GLN:HE22	1:H:612:THR:CG2	2.10	0.65
1:K:44:LYS:NZ	3:o:128:SER:CB	2.60	0.65
1:L:491:ASN:OD1	1:L:495:ALA:HB3	1.95	0.65
1:A:456:GLU:OE2	1:A:477:ARG:HB3	1.97	0.65
1:A:518:LEU:HD22	1:O:475:VAL:CG2	2.26	0.65
1:C:44:LYS:NZ	3:e:128:SER:CB	2.60	0.65
1:D:44:LYS:NZ	3:h:128:SER:CB	2.60	0.65
1:D:351:GLU:HG2	1:D:435:ILE:HG22	1.79	0.65
1:D:456:GLU:OE2	1:D:477:ARG:HB3	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:491:ASN:OD1	1:D:495:ALA:HB3	1.95	0.65
1:E:611:GLN:HE22	1:E:612:THR:CG2	2.10	0.65
1:G:44:LYS:NZ	3:k:128:SER:CB	2.60	0.65
1:G:445:ASP:OD1	1:G:446:ASN:N	2.30	0.65
1:I:174:ARG:HG3	1:I:175:LEU:HD22	1.78	0.65
1:I:265:THR:CG2	1:I:320:THR:HG22	2.27	0.65
1:J:265:THR:CG2	1:J:320:THR:HG22	2.27	0.65
1:J:306:ILE:HG23	1:J:321:ALA:HB2	1.77	0.65
1:L:44:LYS:NZ	3:p:128:SER:CB	2.60	0.65
1:L:611:GLN:HE22	1:L:612:THR:CG2	2.10	0.65
1:M:214:THR:OG1	1:M:216:LYS:O	2.14	0.65
1:N:45:ASN:HB3	3:r:108:LEU:HD21	1.72	0.65
1:N:445:ASP:OD1	1:N:446:ASN:N	2.30	0.65
1:O:517:ASP:CG	1:O:518:LEU:H	2.03	0.65
2:V:54:GLY:C	2:V:123:LEU:HD11	2.21	0.65
1:B:611:GLN:HE22	1:B:612:THR:CG2	2.10	0.65
1:C:351:GLU:HG2	1:C:435:ILE:HG22	1.79	0.65
1:C:456:GLU:OE2	1:C:477:ARG:HB3	1.97	0.65
1:E:456:GLU:OE2	1:E:477:ARG:HB3	1.97	0.65
1:E:517:ASP:CG	1:E:518:LEU:H	2.03	0.65
1:H:265:THR:CG2	1:H:320:THR:HG22	2.27	0.65
1:J:44:LYS:NZ	3:n:128:SER:CB	2.60	0.65
1:J:520:ALA:HB1	1:J:522:PHE:CE2	2.31	0.65
1:L:265:THR:CG2	1:L:320:THR:HG22	2.27	0.65
1:M:445:ASP:OD1	1:M:446:ASN:N	2.30	0.65
1:N:44:LYS:HE2	1:O:63:ARG:HH11	1.59	0.65
2:Z:54:GLY:C	2:Z:123:LEU:HD11	2.21	0.65
1:A:214:THR:OG1	1:A:216:LYS:O	2.14	0.65
1:B:456:GLU:OE2	1:B:477:ARG:HB3	1.97	0.65
1:B:517:ASP:CG	1:B:518:LEU:H	2.03	0.65
1:C:174:ARG:HG3	1:C:175:LEU:HD22	1.78	0.65
1:F:306:ILE:HG23	1:F:321:ALA:HB2	1.77	0.65
1:G:265:THR:CG2	1:G:320:THR:HG22	2.27	0.65
1:G:611:GLN:NE2	1:G:612:THR:CG2	2.58	0.65
1:H:445:ASP:OD1	1:H:446:ASN:N	2.30	0.65
1:K:265:THR:CG2	1:K:320:THR:HG22	2.27	0.65
1:L:611:GLN:NE2	1:L:612:THR:CG2	2.58	0.65
1:N:491:ASN:OD1	1:N:495:ALA:HB3	1.96	0.65
1:N:520:ALA:HB1	1:N:522:PHE:CE2	2.31	0.65
1:O:520:ALA:HB1	1:O:522:PHE:CE2	2.31	0.65
2:Q:54:GLY:C	2:Q:123:LEU:HD11	2.21	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:54:GLY:C	2:S:123:LEU:HD11	2.21	0.65
2:Y:54:GLY:C	2:Y:123:LEU:HD11	2.21	0.65
1:D:475:VAL:CG2	1:E:518:LEU:HD22	2.26	0.65
1:E:349:ILE:HG12	1:E:437:ALA:HB3	1.76	0.65
1:F:456:GLU:OE2	1:F:477:ARG:HB3	1.97	0.65
1:H:306:ILE:HG23	1:H:321:ALA:HB2	1.77	0.65
1:K:174:ARG:HG3	1:K:175:LEU:HD22	1.78	0.65
1:K:611:GLN:HE22	1:K:612:THR:CG2	2.10	0.65
1:N:611:GLN:HE22	1:N:612:THR:CG2	2.10	0.65
2:W:54:GLY:C	2:W:123:LEU:HD11	2.21	0.65
3:l:107:LEU:O	3:l:107:LEU:HD23	1.97	0.65
1:A:161:ASN:ND2	1:B:223:MET:SD	2.69	0.65
1:E:44:LYS:HE2	1:F:63:ARG:HH11	1.60	0.65
1:E:351:GLU:HG2	1:E:435:ILE:HG22	1.79	0.65
1:F:265:THR:CG2	1:F:320:THR:HG22	2.27	0.65
1:L:351:GLU:HG2	1:L:435:ILE:HG22	1.79	0.65
1:M:265:THR:CG2	1:M:320:THR:HG22	2.27	0.65
1:M:351:GLU:HG2	1:M:435:ILE:HG22	1.79	0.65
1:N:517:ASP:CG	1:N:518:LEU:H	2.03	0.65
1:O:174:ARG:HG3	1:O:175:LEU:HD22	1.78	0.65
1:O:214:THR:OG1	1:O:216:LYS:O	2.14	0.65
3:m:107:LEU:O	3:m:107:LEU:HD23	1.97	0.65
1:A:611:GLN:HE22	1:A:612:THR:CG2	2.10	0.65
1:B:44:LYS:NZ	3:g:128:SER:CB	2.60	0.65
1:B:351:GLU:HG2	1:B:435:ILE:HG22	1.79	0.65
1:C:445:ASP:OD1	1:C:446:ASN:N	2.30	0.65
1:D:174:ARG:HG3	1:D:175:LEU:HD22	1.78	0.65
1:F:445:ASP:OD1	1:F:446:ASN:N	2.30	0.65
1:H:44:LYS:NZ	3:l:128:SER:CB	2.60	0.65
1:I:520:ALA:HB1	1:I:522:PHE:CE2	2.31	0.65
1:I:611:GLN:HE22	1:I:612:THR:CG2	2.10	0.65
1:J:476:GLU:HG2	1:J:477:ARG:H	1.61	0.65
1:K:214:THR:OG1	1:K:216:LYS:O	2.14	0.65
1:K:351:GLU:HG2	1:K:435:ILE:HG22	1.79	0.65
1:K:475:VAL:CG2	1:L:518:LEU:HD22	2.27	0.65
1:M:44:LYS:NZ	3:q:128:SER:CB	2.60	0.65
2:a:54:GLY:C	2:a:123:LEU:HD11	2.21	0.65
1:A:390:GLN:NE2	1:A:394:ASP:OD2	2.28	0.65
1:D:306:ILE:HG23	1:D:321:ALA:HB2	1.77	0.65
1:E:265:THR:CG2	1:E:320:THR:HG22	2.27	0.65
1:E:306:ILE:HG23	1:E:321:ALA:HB2	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:174:ARG:HG3	1:G:175:LEU:HD22	1.78	0.65
1:L:445:ASP:OD1	1:L:446:ASN:N	2.30	0.65
1:O:456:GLU:OE2	1:O:477:ARG:HB3	1.97	0.65
1:O:611:GLN:HE22	1:O:612:THR:CG2	2.10	0.65
3:g:107:LEU:O	3:g:107:LEU:HD23	1.97	0.65
1:A:517:ASP:CG	1:A:518:LEU:H	2.03	0.65
1:D:611:GLN:HE22	1:D:612:THR:CG2	2.10	0.65
1:E:174:ARG:HG3	1:E:175:LEU:HD22	1.78	0.65
1:E:491:ASN:OD1	1:E:495:ALA:HB3	1.95	0.65
1:F:44:LYS:NZ	3:j:128:SER:CB	2.60	0.65
1:F:199:SER:HA	1:G:324:ASP:CG	2.21	0.65
1:G:611:GLN:HE22	1:G:612:THR:CG2	2.10	0.65
1:I:445:ASP:OD1	1:I:446:ASN:N	2.30	0.65
1:M:456:GLU:OE2	1:M:477:ARG:HB3	1.97	0.65
1:N:174:ARG:HG3	1:N:175:LEU:HD22	1.78	0.65
1:O:265:THR:CG2	1:O:320:THR:HG22	2.27	0.65
1:O:445:ASP:OD1	1:O:446:ASN:N	2.30	0.65
1:O:476:GLU:HG2	1:O:477:ARG:H	1.61	0.65
1:O:544:LEU:O	1:O:581:LEU:N	2.30	0.65
3:s:107:LEU:HD23	3:s:107:LEU:O	1.97	0.65
1:A:265:THR:CG2	1:A:320:THR:HG22	2.27	0.65
1:A:544:LEU:O	1:A:581:LEU:N	2.30	0.65
1:B:445:ASP:OD1	1:B:446:ASN:N	2.30	0.65
1:B:559:LEU:HB3	1:B:569:PHE:HD2	1.62	0.65
1:D:265:THR:CG2	1:D:320:THR:HG22	2.27	0.65
1:D:559:LEU:HB3	1:D:569:PHE:HD2	1.62	0.65
1:F:214:THR:OG1	1:F:216:LYS:O	2.14	0.65
1:F:611:GLN:HE22	1:F:612:THR:CG2	2.10	0.65
1:G:456:GLU:OE2	1:G:477:ARG:HB3	1.97	0.65
1:J:611:GLN:HE22	1:J:612:THR:CG2	2.10	0.65
1:M:476:GLU:HG2	1:M:477:ARG:H	1.61	0.65
1:M:611:GLN:HE22	1:M:612:THR:CG2	2.10	0.65
1:N:544:LEU:O	1:N:581:LEU:N	2.30	0.65
2:R:54:GLY:C	2:R:123:LEU:HD11	2.21	0.65
3:k:107:LEU:HD23	3:k:107:LEU:O	1.97	0.65
3:n:107:LEU:HD23	3:n:107:LEU:O	1.97	0.65
1:B:476:GLU:HG2	1:B:477:ARG:H	1.61	0.64
1:B:611:GLN:NE2	1:B:612:THR:CG2	2.58	0.64
1:C:214:THR:OG1	1:C:216:LYS:O	2.14	0.64
1:D:445:ASP:OD1	1:D:446:ASN:N	2.30	0.64
1:E:44:LYS:NZ	3:i:128:SER:CB	2.60	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:44:LYS:HE2	1:L:63:ARG:HH11	1.61	0.64
1:M:559:LEU:HB3	1:M:569:PHE:HD2	1.62	0.64
1:N:44:LYS:NZ	3:r:128:SER:CB	2.60	0.64
1:N:265:THR:CG2	1:N:320:THR:HG22	2.27	0.64
2:P:54:GLY:C	2:P:123:LEU:HD11	2.21	0.64
1:C:611:GLN:HE22	1:C:612:THR:CG2	2.10	0.64
1:E:527:VAL:HG21	1:E:583:LEU:HD11	1.80	0.64
1:I:214:THR:OG1	1:I:216:LYS:O	2.14	0.64
1:I:306:ILE:HG23	1:I:321:ALA:HB2	1.77	0.64
1:K:559:LEU:HB3	1:K:569:PHE:HD2	1.62	0.64
1:L:456:GLU:OE2	1:L:477:ARG:HB3	1.97	0.64
1:M:262:GLN:HB3	1:N:331:ARG:NH2	2.12	0.64
1:O:559:LEU:HB3	1:O:569:PHE:HD2	1.62	0.64
3:r:107:LEU:O	3:r:107:LEU:HD23	1.97	0.64
1:A:44:LYS:NZ	3:f:128:SER:CB	2.60	0.64
1:A:591:ARG:N	1:A:595:GLU:OE1	2.27	0.64
1:F:351:GLU:HG2	1:F:435:ILE:HG22	1.79	0.64
1:H:456:GLU:OE2	1:H:477:ARG:HB3	1.97	0.64
1:J:351:GLU:HG2	1:J:435:ILE:HG22	1.79	0.64
1:M:544:LEU:O	1:M:581:LEU:N	2.30	0.64
1:N:351:GLU:HG2	1:N:435:ILE:HG22	1.79	0.64
3:i:107:LEU:HD23	3:i:107:LEU:O	1.97	0.64
1:A:351:GLU:HG2	1:A:435:ILE:HG22	1.79	0.64
1:B:527:VAL:HG21	1:B:583:LEU:HD11	1.80	0.64
1:B:544:LEU:O	1:B:581:LEU:N	2.30	0.64
1:D:517:ASP:CG	1:D:518:LEU:H	2.03	0.64
1:I:44:LYS:NZ	3:m:128:SER:CB	2.60	0.64
1:J:445:ASP:OD1	1:J:446:ASN:N	2.30	0.64
1:L:591:ARG:N	1:L:595:GLU:OE1	2.27	0.64
1:M:65:TYR:OH	3:p:113:PRO:HB3	1.97	0.64
1:M:174:ARG:HG3	1:M:175:LEU:HD22	1.78	0.64
1:N:456:GLU:OE2	1:N:477:ARG:HB3	1.97	0.64
3:e:107:LEU:O	3:e:107:LEU:HD23	1.97	0.64
1:C:527:VAL:HG21	1:C:583:LEU:HD11	1.80	0.64
1:D:476:GLU:HG2	1:D:477:ARG:H	1.61	0.64
1:D:527:VAL:HG21	1:D:583:LEU:HD11	1.80	0.64
1:E:214:THR:OG1	1:E:216:LYS:O	2.14	0.64
1:I:456:GLU:OE2	1:I:477:ARG:HB3	1.97	0.64
1:O:44:LYS:NZ	3:s:128:SER:CB	2.60	0.64
1:B:390:GLN:NE2	1:B:394:ASP:OD2	2.28	0.64
1:G:214:THR:OG1	1:G:216:LYS:O	2.14	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:306:ILE:HG23	1:G:321:ALA:HB2	1.77	0.64
1:G:476:GLU:HG2	1:G:477:ARG:H	1.61	0.64
1:G:527:VAL:HG21	1:G:583:LEU:HD11	1.80	0.64
1:G:559:LEU:HB3	1:G:569:PHE:HD2	1.62	0.64
1:H:199:SER:HA	1:I:324:ASP:CG	2.22	0.64
1:H:262:GLN:HB3	1:I:331:ARG:NH2	2.13	0.64
1:I:559:LEU:HB3	1:I:569:PHE:HD2	1.62	0.64
3:p:107:LEU:O	3:p:107:LEU:HD23	1.97	0.64
1:A:45:ASN:CB	3:f:108:LEU:CD2	2.46	0.64
1:B:214:THR:OG1	1:B:216:LYS:O	2.14	0.64
1:F:174:ARG:HG3	1:F:175:LEU:HD22	1.78	0.64
1:L:65:TYR:OH	3:o:113:PRO:HB3	1.97	0.64
3:m:110:SER:OG	3:m:115:ARG:O	2.14	0.64
1:E:161:ASN:ND2	1:F:223:MET:SD	2.71	0.64
1:F:527:VAL:HG21	1:F:583:LEU:HD11	1.80	0.64
1:F:544:LEU:O	1:F:581:LEU:N	2.30	0.64
1:L:544:LEU:O	1:L:581:LEU:N	2.30	0.64
3:h:107:LEU:HD23	3:h:107:LEU:O	1.97	0.64
1:E:437:ALA:HA	1:F:546:ASP:OD1	1.98	0.64
1:E:591:ARG:N	1:E:595:GLU:OE1	2.27	0.64
1:F:559:LEU:HB3	1:F:569:PHE:HD2	1.63	0.64
1:G:517:ASP:CG	1:G:518:LEU:H	2.03	0.64
1:J:517:ASP:CG	1:J:518:LEU:H	2.03	0.64
3:f:110:SER:OG	3:f:115:ARG:O	2.14	0.64
3:j:107:LEU:O	3:j:107:LEU:HD23	1.97	0.64
3:q:107:LEU:HD23	3:q:107:LEU:O	1.97	0.64
1:C:265:THR:CG2	1:C:320:THR:HG22	2.27	0.64
1:D:214:THR:OG1	1:D:216:LYS:O	2.14	0.64
1:G:556:VAL:HG13	1:G:559:LEU:HB2	1.80	0.64
1:H:527:VAL:HG21	1:H:583:LEU:HD11	1.80	0.64
1:M:517:ASP:CG	1:M:518:LEU:H	2.03	0.64
1:O:527:VAL:HG21	1:O:583:LEU:HD11	1.80	0.64
1:A:324:ASP:CG	1:O:199:SER:HA	2.24	0.63
1:A:527:VAL:HG21	1:A:583:LEU:HD11	1.80	0.63
1:C:544:LEU:O	1:C:581:LEU:N	2.30	0.63
1:E:445:ASP:OD1	1:E:446:ASN:N	2.30	0.63
1:F:556:VAL:HG13	1:F:559:LEU:HB2	1.80	0.63
1:I:351:GLU:HG2	1:I:435:ILE:HG22	1.79	0.63
1:J:559:LEU:HB3	1:J:569:PHE:HD2	1.62	0.63
1:K:199:SER:HA	1:L:324:ASP:CG	2.24	0.63
1:O:351:GLU:HG2	1:O:435:ILE:HG22	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:o:107:LEU:O	3:o:107:LEU:HD23	1.97	0.63
1:B:556:VAL:HG13	1:B:559:LEU:HB2	1.80	0.63
1:C:556:VAL:HG13	1:C:559:LEU:HB2	1.80	0.63
1:E:556:VAL:HG13	1:E:559:LEU:HB2	1.80	0.63
1:H:437:ALA:HA	1:I:546:ASP:OD1	1.98	0.63
1:H:556:VAL:HG13	1:H:559:LEU:HB2	1.80	0.63
1:J:174:ARG:HG3	1:J:175:LEU:HD22	1.78	0.63
1:K:445:ASP:OD1	1:K:446:ASN:N	2.30	0.63
2:Z:110:THR:O	2:Z:115:GLN:NE2	2.30	0.63
1:A:37:GLU:OE1	3:f:126:GLN:CD	2.42	0.63
1:A:445:ASP:OD1	1:A:446:ASN:N	2.30	0.63
1:B:265:THR:CG2	1:B:320:THR:HG22	2.27	0.63
1:D:437:ALA:HA	1:E:546:ASP:OD1	1.98	0.63
1:D:556:VAL:HG13	1:D:559:LEU:HB2	1.80	0.63
1:D:611:GLN:NE2	1:D:612:THR:CG2	2.58	0.63
1:G:107:SER:HB3	1:H:171:VAL:HG23	1.80	0.63
1:G:351:GLU:HG2	1:G:435:ILE:HG22	1.78	0.63
1:J:456:GLU:OE2	1:J:477:ARG:HB3	1.97	0.63
1:N:527:VAL:HG21	1:N:583:LEU:HD11	1.80	0.63
1:N:559:LEU:HB3	1:N:569:PHE:HD2	1.62	0.63
3:f:107:LEU:HD23	3:f:107:LEU:O	1.97	0.63
1:C:390:GLN:NE2	1:C:394:ASP:OD2	2.28	0.63
1:H:325:VAL:O	1:H:325:VAL:HG22	1.98	0.63
1:I:221:GLY:H	1:J:215:SER:HB3	1.63	0.63
1:I:434:ASP:OD1	1:I:435:ILE:N	2.32	0.63
1:I:527:VAL:HG21	1:I:583:LEU:HD11	1.80	0.63
1:K:325:VAL:O	1:K:325:VAL:HG22	1.98	0.63
1:K:591:ARG:N	1:K:595:GLU:OE1	2.27	0.63
1:L:174:ARG:HG3	1:L:175:LEU:HD22	1.78	0.63
1:L:199:SER:HA	1:M:324:ASP:CG	2.23	0.63
1:O:476:GLU:HG2	1:O:477:ARG:N	2.14	0.63
1:O:640:PHE:CE1	2:d:119:PHE:CE1	2.87	0.63
1:D:262:GLN:HB3	1:E:331:ARG:NH2	2.13	0.63
1:F:325:VAL:O	1:F:325:VAL:HG22	1.98	0.63
1:G:325:VAL:O	1:G:325:VAL:HG22	1.98	0.63
1:G:640:PHE:CE1	2:V:119:PHE:CE1	2.87	0.63
1:I:476:GLU:HG2	1:I:477:ARG:N	2.14	0.63
1:L:559:LEU:HB3	1:L:569:PHE:HD2	1.62	0.63
1:L:628:LEU:HB3	1:M:538:THR:HG1	1.64	0.63
1:O:65:TYR:OH	3:r:113:PRO:HB3	1.98	0.63
1:A:434:ASP:OD1	1:A:435:ILE:N	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:476:GLU:HG2	1:A:477:ARG:N	2.14	0.63
1:B:434:ASP:OD1	1:B:435:ILE:N	2.32	0.63
1:C:37:GLU:OE1	3:e:126:GLN:CD	2.42	0.63
1:D:476:GLU:HG2	1:D:477:ARG:N	2.14	0.63
1:H:476:GLU:HG2	1:H:477:ARG:N	2.14	0.63
1:I:325:VAL:O	1:I:325:VAL:HG22	1.98	0.63
1:J:434:ASP:OD1	1:J:435:ILE:N	2.32	0.63
1:K:456:GLU:OE2	1:K:477:ARG:HB3	1.97	0.63
1:K:544:LEU:O	1:K:581:LEU:N	2.30	0.63
1:M:434:ASP:OD1	1:M:435:ILE:N	2.32	0.63
1:E:559:LEU:HB3	1:E:569:PHE:HD2	1.62	0.63
1:H:174:ARG:HG3	1:H:175:LEU:HD22	1.78	0.63
1:H:559:LEU:HB3	1:H:569:PHE:HD2	1.62	0.63
1:I:556:VAL:HG13	1:I:559:LEU:HB2	1.80	0.63
1:J:476:GLU:HG2	1:J:477:ARG:N	2.14	0.63
1:J:527:VAL:HG21	1:J:583:LEU:HD11	1.80	0.63
1:N:37:GLU:OE1	3:r:126:GLN:CD	2.42	0.63
3:l:110:SER:OG	3:l:115:ARG:O	2.14	0.63
1:A:556:VAL:HG13	1:A:559:LEU:HB2	1.80	0.63
1:C:476:GLU:HG2	1:C:477:ARG:N	2.14	0.63
1:C:559:LEU:HB3	1:C:569:PHE:HD2	1.62	0.63
1:E:325:VAL:O	1:E:325:VAL:HG22	1.98	0.63
1:F:640:PHE:CE1	2:U:119:PHE:CE1	2.87	0.63
1:I:640:PHE:CE1	2:X:119:PHE:CE1	2.87	0.63
1:L:640:PHE:CE1	2:a:119:PHE:CE1	2.87	0.63
2:a:110:THR:O	2:a:115:GLN:NE2	2.30	0.63
1:D:544:LEU:O	1:D:581:LEU:N	2.30	0.63
1:G:476:GLU:HG2	1:G:477:ARG:N	2.14	0.63
1:J:325:VAL:O	1:J:325:VAL:HG22	1.98	0.63
1:J:640:PHE:CE1	2:Y:119:PHE:CE1	2.87	0.63
1:K:527:VAL:HG21	1:K:583:LEU:HD11	1.80	0.63
1:A:559:LEU:HB3	1:A:569:PHE:HD2	1.62	0.62
1:C:639:ALA:CB	2:P:104:GLN:HB3	2.27	0.62
1:C:640:PHE:CE1	2:P:119:PHE:CE1	2.87	0.62
1:D:39:ILE:O	1:D:43:SER:CB	2.48	0.62
1:E:434:ASP:OD1	1:E:435:ILE:N	2.32	0.62
1:F:434:ASP:OD1	1:F:435:ILE:N	2.32	0.62
1:G:37:GLU:OE1	3:k:126:GLN:CD	2.42	0.62
1:I:107:SER:HA	1:J:171:VAL:HG22	1.80	0.62
1:J:37:GLU:OE1	3:n:126:GLN:CD	2.42	0.62
1:K:39:ILE:O	1:K:43:SER:CB	2.47	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:639:ALA:CB	2:Z:104:GLN:HB3	2.27	0.62
1:M:640:PHE:CE1	2:b:119:PHE:CE1	2.87	0.62
1:N:434:ASP:OD1	1:N:435:ILE:N	2.32	0.62
1:N:640:PHE:CE1	2:c:119:PHE:CE1	2.87	0.62
1:A:640:PHE:CE1	2:Q:119:PHE:CE1	2.87	0.62
1:D:37:GLU:OE1	3:h:126:GLN:CD	2.42	0.62
1:D:390:GLN:NE2	1:D:394:ASP:OD2	2.28	0.62
1:D:640:PHE:CE1	2:S:119:PHE:CE1	2.87	0.62
1:E:37:GLU:OE1	3:i:126:GLN:CD	2.42	0.62
1:E:544:LEU:O	1:E:581:LEU:N	2.30	0.62
1:H:351:GLU:HG2	1:H:435:ILE:HG22	1.79	0.62
1:J:390:GLN:NE2	1:J:394:ASP:OD2	2.28	0.62
1:K:476:GLU:HG2	1:K:477:ARG:N	2.14	0.62
1:H:434:ASP:OD1	1:H:435:ILE:N	2.32	0.62
1:I:390:GLN:NE2	1:I:394:ASP:OD2	2.28	0.62
1:J:200:ALA:N	1:K:324:ASP:OD2	2.32	0.62
1:J:544:LEU:O	1:J:581:LEU:N	2.30	0.62
1:J:556:VAL:HG13	1:J:559:LEU:HB2	1.80	0.62
1:M:527:VAL:HG21	1:M:583:LEU:HD11	1.80	0.62
1:N:262:GLN:HB3	1:O:331:ARG:NH2	2.14	0.62
2:W:110:THR:O	2:W:115:GLN:NE2	2.30	0.62
1:A:39:ILE:O	1:A:43:SER:CB	2.47	0.62
1:D:325:VAL:O	1:D:325:VAL:HG22	1.98	0.62
1:E:195:LEU:HD21	1:E:198:ALA:HB3	1.82	0.62
1:F:39:ILE:O	1:F:43:SER:CB	2.47	0.62
1:F:476:GLU:HG2	1:F:477:ARG:N	2.14	0.62
1:G:195:LEU:HD21	1:G:198:ALA:HB3	1.82	0.62
1:H:195:LEU:HD21	1:H:198:ALA:HB3	1.81	0.62
1:I:39:ILE:O	1:I:43:SER:CB	2.47	0.62
1:I:107:SER:HB3	1:J:171:VAL:HG23	1.82	0.62
1:K:37:GLU:OE1	3:o:126:GLN:CD	2.42	0.62
1:L:527:VAL:HG21	1:L:583:LEU:HD11	1.80	0.62
1:M:37:GLU:OE1	3:q:126:GLN:CD	2.42	0.62
1:M:45:ASN:CB	3:q:108:LEU:CD2	2.46	0.62
1:M:249:ILE:O	1:M:253:LYS:HG2	2.00	0.62
1:O:37:GLU:OE1	3:s:126:GLN:CD	2.42	0.62
1:O:325:VAL:O	1:O:325:VAL:HG22	1.98	0.62
1:O:556:VAL:HG13	1:O:559:LEU:HB2	1.80	0.62
1:O:639:ALA:CB	2:d:104:GLN:HB3	2.27	0.62
1:B:37:GLU:OE1	3:g:126:GLN:CD	2.42	0.62
1:B:640:PHE:CE1	2:R:119:PHE:CE1	2.87	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:434:ASP:OD1	1:C:435:ILE:N	2.32	0.62
1:F:37:GLU:OE1	3:j:126:GLN:CD	2.42	0.62
1:H:640:PHE:CE1	2:W:119:PHE:CE1	2.87	0.62
1:L:249:ILE:O	1:L:253:LYS:HG2	2.00	0.62
1:L:476:GLU:HG2	1:L:477:ARG:N	2.14	0.62
1:O:39:ILE:O	1:O:43:SER:CB	2.47	0.62
1:A:171:VAL:HG22	1:O:107:SER:HA	1.82	0.62
1:B:39:ILE:O	1:B:43:SER:CB	2.48	0.62
1:B:107:SER:HA	1:C:171:VAL:HG22	1.82	0.62
1:D:135:ALA:HA	1:D:138:LEU:HD21	1.81	0.62
1:D:195:LEU:HD21	1:D:198:ALA:HB3	1.82	0.62
1:D:249:ILE:O	1:D:253:LYS:HG2	2.00	0.62
1:F:195:LEU:HD21	1:F:198:ALA:HB3	1.82	0.62
1:G:249:ILE:O	1:G:253:LYS:HG2	2.00	0.62
1:G:434:ASP:OD1	1:G:435:ILE:N	2.32	0.62
1:H:249:ILE:O	1:H:253:LYS:HG2	2.00	0.62
1:H:628:LEU:HB3	1:I:538:THR:HG1	1.63	0.62
1:I:37:GLU:OE1	3:m:126:GLN:CD	2.42	0.62
1:J:135:ALA:HA	1:J:138:LEU:HD21	1.81	0.62
1:K:100:ARG:HD2	1:K:102:LYS:NZ	2.15	0.62
1:K:390:GLN:NE2	1:K:394:ASP:OD2	2.28	0.62
1:M:100:ARG:HD2	1:M:102:LYS:NZ	2.15	0.62
1:M:189:SER:OG	1:M:245:ARG:NH1	2.33	0.62
1:N:249:ILE:O	1:N:253:LYS:HG2	2.00	0.62
1:N:476:GLU:HG2	1:N:477:ARG:N	2.14	0.62
1:O:189:SER:OG	1:O:245:ARG:NH1	2.33	0.62
1:O:249:ILE:O	1:O:253:LYS:HG2	2.00	0.62
1:A:249:ILE:O	1:A:253:LYS:HG2	2.00	0.62
1:A:325:VAL:O	1:A:325:VAL:HG22	1.98	0.62
1:B:65:TYR:OH	3:f:113:PRO:HB3	2.00	0.62
1:C:135:ALA:HA	1:C:138:LEU:HD21	1.81	0.62
1:C:249:ILE:O	1:C:253:LYS:HG2	2.00	0.62
1:F:65:TYR:OH	3:i:113:PRO:HB3	1.99	0.62
1:F:249:ILE:O	1:F:253:LYS:HG2	2.00	0.62
1:H:37:GLU:OE1	3:l:126:GLN:CD	2.42	0.62
1:H:39:ILE:O	1:H:43:SER:CB	2.47	0.62
1:H:100:ARG:HD2	1:H:102:LYS:NZ	2.15	0.62
1:I:100:ARG:HD2	1:I:102:LYS:NZ	2.15	0.62
1:I:249:ILE:O	1:I:253:LYS:HG2	2.00	0.62
1:J:100:ARG:HD2	1:J:102:LYS:NZ	2.15	0.62
1:J:249:ILE:O	1:J:253:LYS:HG2	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:591:ARG:N	1:J:595:GLU:OE1	2.27	0.62
1:K:249:ILE:O	1:K:253:LYS:HG2	2.00	0.62
1:K:640:PHE:CE1	2:Z:119:PHE:CE1	2.87	0.62
1:L:135:ALA:HA	1:L:138:LEU:HD21	1.81	0.62
1:L:437:ALA:HA	1:M:546:ASP:OD1	2.00	0.62
1:N:325:VAL:O	1:N:325:VAL:HG22	1.98	0.62
1:N:497:LEU:C	1:N:498:LEU:HD12	2.25	0.62
2:X:110:THR:O	2:X:115:GLN:NE2	2.30	0.62
3:p:110:SER:OG	3:p:115:ARG:O	2.14	0.62
3:q:110:SER:OG	3:q:115:ARG:O	2.14	0.62
1:C:195:LEU:HD21	1:C:198:ALA:HB3	1.82	0.62
1:E:45:ASN:CB	3:i:108:LEU:CD2	2.46	0.62
1:E:249:ILE:O	1:E:253:LYS:HG2	2.00	0.62
1:F:161:ASN:ND2	1:G:223:MET:SD	2.72	0.62
1:H:497:LEU:C	1:H:498:LEU:HD12	2.25	0.62
1:K:44:LYS:HD3	3:o:117:ILE:HD12	1.82	0.62
1:K:135:ALA:HA	1:K:138:LEU:HD21	1.81	0.62
1:M:107:SER:HA	1:N:171:VAL:HG22	1.81	0.62
1:N:39:ILE:O	1:N:43:SER:CB	2.47	0.62
1:N:556:VAL:HG13	1:N:559:LEU:HB2	1.80	0.62
1:O:497:LEU:C	1:O:498:LEU:HD12	2.25	0.62
2:S:110:THR:O	2:S:115:GLN:NE2	2.30	0.62
2:V:110:THR:O	2:V:115:GLN:NE2	2.30	0.62
1:B:189:SER:OG	1:B:245:ARG:NH1	2.33	0.62
1:B:195:LEU:HD21	1:B:198:ALA:HB3	1.82	0.62
1:C:39:ILE:O	1:C:43:SER:CB	2.47	0.62
1:C:325:VAL:O	1:C:325:VAL:HG22	1.98	0.62
1:D:434:ASP:OD1	1:D:435:ILE:N	2.32	0.62
1:E:390:GLN:NE2	1:E:394:ASP:OD2	2.28	0.62
1:E:640:PHE:CE1	2:T:119:PHE:CE1	2.87	0.62
1:F:135:ALA:HA	1:F:138:LEU:HD21	1.81	0.62
1:G:497:LEU:C	1:G:498:LEU:HD12	2.25	0.62
1:J:39:ILE:O	1:J:43:SER:CB	2.47	0.62
1:K:189:SER:OG	1:K:245:ARG:NH1	2.33	0.62
1:K:434:ASP:OD1	1:K:435:ILE:N	2.32	0.62
1:K:437:ALA:HA	1:L:546:ASP:OD1	2.00	0.62
1:K:628:LEU:HB3	1:L:538:THR:HG1	1.64	0.62
1:L:37:GLU:OE1	3:p:126:GLN:CD	2.42	0.62
1:L:189:SER:OG	1:L:245:ARG:NH1	2.33	0.62
1:M:135:ALA:HA	1:M:138:LEU:HD21	1.81	0.62
1:M:591:ARG:N	1:M:595:GLU:OE1	2.27	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:591:ARG:N	1:O:595:GLU:OE1	2.27	0.62
1:A:135:ALA:HA	1:A:138:LEU:HD21	1.81	0.62
1:G:639:ALA:CB	2:V:104:GLN:HB3	2.27	0.62
1:H:390:GLN:NE2	1:H:394:ASP:OD2	2.28	0.62
1:I:544:LEU:O	1:I:581:LEU:N	2.30	0.62
1:K:556:VAL:HG13	1:K:559:LEU:HB2	1.80	0.62
1:L:325:VAL:O	1:L:325:VAL:HG22	1.98	0.62
2:c:110:THR:O	2:c:115:GLN:NE2	2.30	0.62
3:k:110:SER:OG	3:k:115:ARG:O	2.14	0.62
3:o:110:SER:OG	3:o:115:ARG:O	2.14	0.62
1:A:189:SER:OG	1:A:245:ARG:NH1	2.33	0.61
1:B:476:GLU:HG2	1:B:477:ARG:N	2.14	0.61
1:E:476:GLU:HG2	1:E:477:ARG:N	2.14	0.61
1:F:100:ARG:HD2	1:F:102:LYS:NZ	2.15	0.61
1:G:39:ILE:O	1:G:43:SER:CB	2.47	0.61
1:G:390:GLN:NE2	1:G:394:ASP:OD2	2.28	0.61
1:G:596:TYR:OH	1:H:539:VAL:HG13	2.00	0.61
1:I:135:ALA:HA	1:I:138:LEU:HD21	1.81	0.61
1:J:195:LEU:HD21	1:J:198:ALA:HB3	1.82	0.61
1:L:100:ARG:HD2	1:L:102:LYS:NZ	2.15	0.61
1:N:189:SER:OG	1:N:245:ARG:NH1	2.33	0.61
3:r:110:SER:OG	3:r:115:ARG:O	2.14	0.61
1:C:497:LEU:C	1:C:498:LEU:HD12	2.25	0.61
1:I:195:LEU:HD21	1:I:198:ALA:HB3	1.82	0.61
1:I:497:LEU:C	1:I:498:LEU:HD12	2.25	0.61
1:L:44:LYS:HD3	3:p:117:ILE:HD12	1.82	0.61
1:L:262:GLN:HB3	1:M:331:ARG:NH2	2.15	0.61
1:M:556:VAL:HG13	1:M:559:LEU:HB2	1.80	0.61
1:O:100:ARG:HD2	1:O:102:LYS:NZ	2.15	0.61
1:C:107:SER:HA	1:D:171:VAL:HG22	1.83	0.61
1:D:497:LEU:C	1:D:498:LEU:HD12	2.25	0.61
1:J:497:LEU:C	1:J:498:LEU:HD12	2.25	0.61
1:M:39:ILE:O	1:M:43:SER:CB	2.47	0.61
1:M:497:LEU:C	1:M:498:LEU:HD12	2.25	0.61
1:N:100:ARG:HD2	1:N:102:LYS:NZ	2.15	0.61
1:A:497:LEU:C	1:A:498:LEU:HD12	2.25	0.61
1:B:135:ALA:HA	1:B:138:LEU:HD21	1.81	0.61
1:B:325:VAL:O	1:B:325:VAL:HG22	1.98	0.61
1:C:189:SER:OG	1:C:245:ARG:NH1	2.33	0.61
1:D:591:ARG:N	1:D:595:GLU:OE1	2.27	0.61
1:E:39:ILE:O	1:E:43:SER:CB	2.47	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:497:LEU:C	1:E:498:LEU:HD12	2.25	0.61
1:G:544:LEU:O	1:G:581:LEU:N	2.30	0.61
1:H:544:LEU:O	1:H:581:LEU:N	2.30	0.61
1:K:262:GLN:HB3	1:L:331:ARG:NH2	2.14	0.61
1:L:556:VAL:HG13	1:L:559:LEU:HB2	1.80	0.61
1:M:325:VAL:O	1:M:325:VAL:HG22	1.98	0.61
1:O:434:ASP:OD1	1:O:435:ILE:N	2.32	0.61
2:c:118:GLN:O	2:c:122:GLN:HG2	2.01	0.61
1:F:390:GLN:NE2	1:F:394:ASP:OD2	2.28	0.61
1:F:497:LEU:C	1:F:498:LEU:HD12	2.25	0.61
1:F:639:ALA:CB	2:U:104:GLN:HB3	2.27	0.61
1:J:639:ALA:CB	2:Y:104:GLN:HB3	2.27	0.61
1:K:195:LEU:HD21	1:K:198:ALA:HB3	1.81	0.61
1:L:39:ILE:O	1:L:43:SER:CB	2.48	0.61
1:M:476:GLU:HG2	1:M:477:ARG:N	2.14	0.61
2:b:110:THR:O	2:b:115:GLN:NE2	2.30	0.61
2:d:110:THR:O	2:d:115:GLN:NE2	2.30	0.61
2:d:118:GLN:O	2:d:122:GLN:HG2	2.01	0.61
3:h:110:SER:OG	3:h:115:ARG:O	2.14	0.61
1:A:195:LEU:HD21	1:A:198:ALA:HB3	1.82	0.61
1:B:229:ALA:HB2	1:B:236:VAL:HG23	1.83	0.61
1:D:189:SER:OG	1:D:245:ARG:NH1	2.33	0.61
1:H:135:ALA:HA	1:H:138:LEU:HD21	1.81	0.61
1:L:497:LEU:C	1:L:498:LEU:HD12	2.25	0.61
2:b:118:GLN:O	2:b:122:GLN:HG2	2.01	0.61
1:H:45:ASN:CB	3:l:108:LEU:CD2	2.46	0.61
1:I:189:SER:OG	1:I:245:ARG:NH1	2.33	0.61
1:I:591:ARG:N	1:I:595:GLU:OE1	2.27	0.61
1:N:161:ASN:ND2	1:O:223:MET:SD	2.73	0.61
2:S:118:GLN:O	2:S:122:GLN:HG2	2.01	0.61
3:s:110:SER:OG	3:s:115:ARG:O	2.14	0.61
1:B:100:ARG:HD2	1:B:102:LYS:NZ	2.15	0.61
1:D:100:ARG:HD2	1:D:102:LYS:NZ	2.15	0.61
1:D:229:ALA:HB2	1:D:236:VAL:HG23	1.83	0.61
1:F:229:ALA:HB2	1:F:236:VAL:HG23	1.83	0.61
1:G:229:ALA:HB2	1:G:236:VAL:HG23	1.83	0.61
1:I:229:ALA:HB2	1:I:236:VAL:HG23	1.83	0.61
1:M:107:SER:HB3	1:N:171:VAL:HG23	1.83	0.61
1:O:229:ALA:HB2	1:O:236:VAL:HG23	1.83	0.61
1:A:628:LEU:HB3	1:B:538:THR:HG1	1.62	0.61
1:G:437:ALA:HA	1:H:546:ASP:OD1	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:189:SER:OG	1:H:245:ARG:NH1	2.33	0.61
1:J:189:SER:OG	1:J:245:ARG:NH1	2.33	0.61
1:L:390:GLN:NE2	1:L:394:ASP:OD2	2.28	0.61
1:N:229:ALA:HB2	1:N:236:VAL:HG23	1.83	0.61
2:P:118:GLN:O	2:P:122:GLN:HG2	2.01	0.61
2:U:110:THR:O	2:U:115:GLN:NE2	2.30	0.61
1:A:171:VAL:HG23	1:O:107:SER:HB3	1.83	0.61
1:E:135:ALA:HA	1:E:138:LEU:HD21	1.81	0.61
1:E:643:VAL:CG2	2:T:105:LEU:HD21	2.31	0.61
1:F:643:VAL:CG2	2:U:105:LEU:HD21	2.31	0.61
1:G:135:ALA:HA	1:G:138:LEU:HD21	1.81	0.61
1:G:643:VAL:CG2	2:V:105:LEU:HD21	2.31	0.61
1:N:135:ALA:HA	1:N:138:LEU:HD21	1.81	0.61
1:O:135:ALA:HA	1:O:138:LEU:HD21	1.81	0.61
2:T:118:GLN:O	2:T:122:GLN:HG2	2.01	0.61
2:X:118:GLN:O	2:X:122:GLN:HG2	2.01	0.61
1:B:249:ILE:O	1:B:253:LYS:HG2	2.00	0.60
1:B:497:LEU:C	1:B:498:LEU:HD12	2.25	0.60
1:D:643:VAL:CG2	2:S:105:LEU:HD21	2.31	0.60
1:E:100:ARG:HD2	1:E:102:LYS:NZ	2.15	0.60
1:H:643:VAL:CG2	2:W:105:LEU:HD21	2.31	0.60
1:I:643:VAL:CG2	2:X:105:LEU:HD21	2.31	0.60
1:M:44:LYS:HD3	3:q:117:ILE:HD12	1.82	0.60
1:M:103:ASP:OD2	1:M:105:LYS:N	2.33	0.60
1:N:195:LEU:HD21	1:N:198:ALA:HB3	1.82	0.60
1:O:195:LEU:HD21	1:O:198:ALA:HB3	1.82	0.60
2:Q:118:GLN:O	2:Q:122:GLN:HG2	2.01	0.60
1:A:215:SER:HB3	1:O:221:GLY:H	1.65	0.60
1:G:189:SER:OG	1:G:245:ARG:NH1	2.33	0.60
1:H:161:ASN:ND2	1:I:223:MET:SD	2.75	0.60
1:I:477:ARG:NH1	1:J:459:VAL:CG2	2.64	0.60
1:K:229:ALA:HB2	1:K:236:VAL:HG23	1.83	0.60
1:M:195:LEU:HD21	1:M:198:ALA:HB3	1.82	0.60
1:M:229:ALA:HB2	1:M:236:VAL:HG23	1.83	0.60
2:W:118:GLN:O	2:W:122:GLN:HG2	2.01	0.60
2:Y:110:THR:O	2:Y:115:GLN:NE2	2.30	0.60
2:a:118:GLN:O	2:a:122:GLN:HG2	2.01	0.60
1:A:103:ASP:OD2	1:A:105:LYS:N	2.33	0.60
1:A:200:ALA:N	1:B:324:ASP:OD2	2.33	0.60
1:A:229:ALA:HB2	1:A:236:VAL:HG23	1.83	0.60
1:B:639:ALA:CB	2:R:104:GLN:HB3	2.27	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:107:SER:HA	1:E:171:VAL:HG22	1.84	0.60
1:G:100:ARG:HD2	1:G:102:LYS:NZ	2.15	0.60
1:G:551:ASP:OD1	1:G:552:THR:N	2.35	0.60
1:H:229:ALA:HB2	1:H:236:VAL:HG23	1.83	0.60
1:L:229:ALA:HB2	1:L:236:VAL:HG23	1.83	0.60
1:A:100:ARG:HD2	1:A:102:LYS:NZ	2.15	0.60
1:B:551:ASP:OD1	1:B:552:THR:N	2.35	0.60
1:C:100:ARG:HD2	1:C:102:LYS:NZ	2.15	0.60
1:J:643:VAL:CG2	2:Y:105:LEU:HD21	2.31	0.60
1:K:497:LEU:C	1:K:498:LEU:HD12	2.25	0.60
1:L:103:ASP:OD2	1:L:105:LYS:N	2.33	0.60
1:L:639:ALA:CB	2:a:104:GLN:HB3	2.27	0.60
2:U:118:GLN:O	2:U:122:GLN:HG2	2.01	0.60
3:j:110:SER:OG	3:j:115:ARG:O	2.14	0.60
1:C:551:ASP:OD1	1:C:552:THR:N	2.35	0.60
1:C:643:VAL:CG2	2:P:105:LEU:HD21	2.31	0.60
1:E:189:SER:OG	1:E:245:ARG:NH1	2.33	0.60
1:F:189:SER:OG	1:F:245:ARG:NH1	2.33	0.60
1:J:229:ALA:HB2	1:J:236:VAL:HG23	1.83	0.60
1:N:643:VAL:CG2	2:c:105:LEU:HD21	2.31	0.60
1:O:551:ASP:OD1	1:O:552:THR:N	2.35	0.60
2:Q:110:THR:O	2:Q:115:GLN:NE2	2.30	0.60
2:Y:118:GLN:O	2:Y:122:GLN:HG2	2.01	0.60
1:A:318:ILE:CG2	1:A:319:VAL:H	2.15	0.60
1:B:262:GLN:HB3	1:C:331:ARG:NH2	2.17	0.60
1:B:596:TYR:OH	1:C:539:VAL:HG13	2.02	0.60
1:E:229:ALA:HB2	1:E:236:VAL:HG23	1.83	0.60
1:F:551:ASP:OD1	1:F:552:THR:N	2.35	0.60
1:L:195:LEU:HD21	1:L:198:ALA:HB3	1.82	0.60
1:O:103:ASP:OD2	1:O:105:LYS:N	2.33	0.60
1:O:643:VAL:CG2	2:d:105:LEU:HD21	2.31	0.60
2:R:118:GLN:O	2:R:122:GLN:HG2	2.01	0.60
1:A:477:ARG:NH1	1:B:459:VAL:CG2	2.65	0.60
1:H:551:ASP:OD1	1:H:552:THR:N	2.35	0.60
1:I:596:TYR:OH	1:J:539:VAL:HG13	2.02	0.60
1:J:318:ILE:CG2	1:J:319:VAL:H	2.15	0.60
1:M:161:ASN:ND2	1:N:223:MET:SD	2.75	0.60
1:M:318:ILE:CG2	1:M:319:VAL:H	2.15	0.60
1:M:643:VAL:CG2	2:b:105:LEU:HD21	2.31	0.60
1:N:437:ALA:HA	1:O:546:ASP:OD1	2.02	0.60
1:O:318:ILE:CG2	1:O:319:VAL:H	2.15	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:44:LYS:HD3	3:h:117:ILE:HD12	1.82	0.60
1:D:551:ASP:OD1	1:D:552:THR:N	2.35	0.60
1:E:44:LYS:HD3	3:i:117:ILE:HD12	1.82	0.60
1:J:551:ASP:OD1	1:J:552:THR:N	2.35	0.60
1:L:434:ASP:OD1	1:L:435:ILE:N	2.32	0.60
1:N:103:ASP:OD2	1:N:105:LYS:N	2.33	0.60
1:N:551:ASP:OD1	1:N:552:THR:N	2.35	0.60
2:R:110:THR:O	2:R:115:GLN:NE2	2.30	0.60
1:E:200:ALA:N	1:F:324:ASP:OD2	2.32	0.60
1:B:103:ASP:OD2	1:B:105:LYS:N	2.33	0.60
1:C:437:ALA:HA	1:D:546:ASP:OD1	2.02	0.60
1:E:318:ILE:CG2	1:E:319:VAL:H	2.15	0.60
1:F:44:LYS:HD3	3:j:117:ILE:HD12	1.82	0.60
1:I:551:ASP:OD1	1:I:552:THR:N	2.35	0.60
1:I:639:ALA:CB	2:X:104:GLN:HB3	2.27	0.60
1:K:137:ASP:O	1:K:140:PRO:HD2	2.02	0.60
1:K:318:ILE:CG2	1:K:319:VAL:H	2.15	0.60
1:K:551:ASP:OD1	1:K:552:THR:N	2.35	0.60
1:M:551:ASP:OD1	1:M:552:THR:N	2.35	0.60
1:A:643:VAL:CG2	2:Q:105:LEU:HD21	2.31	0.59
1:G:262:GLN:HB3	1:H:331:ARG:NH2	2.17	0.59
1:K:643:VAL:CG2	2:Z:105:LEU:HD21	2.31	0.59
1:L:643:VAL:CG2	2:a:105:LEU:HD21	2.31	0.59
1:M:596:TYR:OH	1:N:539:VAL:HG13	2.01	0.59
2:V:118:GLN:O	2:V:122:GLN:HG2	2.01	0.59
2:Z:118:GLN:O	2:Z:122:GLN:HG2	2.01	0.59
1:C:44:LYS:HD3	3:e:117:ILE:HD12	1.82	0.59
1:H:137:ASP:O	1:H:140:PRO:HD2	2.02	0.59
1:H:318:ILE:CG2	1:H:319:VAL:H	2.15	0.59
1:L:501:GLU:HG3	1:L:527:VAL:O	2.02	0.59
1:N:137:ASP:O	1:N:140:PRO:HD2	2.02	0.59
1:N:200:ALA:N	1:O:324:ASP:OD2	2.33	0.59
1:N:639:ALA:CB	2:c:104:GLN:HB3	2.27	0.59
2:T:110:THR:O	2:T:115:GLN:NE2	2.30	0.59
1:B:107:SER:HB3	1:C:171:VAL:HG23	1.83	0.59
1:B:643:VAL:CG2	2:R:105:LEU:HD21	2.31	0.59
1:C:262:GLN:HB3	1:D:331:ARG:NH2	2.17	0.59
1:L:318:ILE:CG2	1:L:319:VAL:H	2.15	0.59
1:M:501:GLU:HG3	1:M:527:VAL:O	2.02	0.59
3:i:110:SER:OG	3:i:115:ARG:O	2.14	0.59
1:C:229:ALA:HB2	1:C:236:VAL:HG23	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:391:TYR:O	1:C:395:GLY:N	2.36	0.59
1:E:391:TYR:O	1:E:395:GLY:N	2.36	0.59
1:G:318:ILE:CG2	1:G:319:VAL:H	2.15	0.59
1:I:137:ASP:O	1:I:140:PRO:HD2	2.02	0.59
1:J:107:SER:HB3	1:K:171:VAL:HG23	1.85	0.59
1:B:318:ILE:CG2	1:B:319:VAL:H	2.15	0.59
1:B:437:ALA:HA	1:C:546:ASP:OD1	2.01	0.59
1:C:318:ILE:CG2	1:C:319:VAL:H	2.15	0.59
1:C:596:TYR:OH	1:D:539:VAL:HG13	2.01	0.59
1:D:501:GLU:HG3	1:D:527:VAL:O	2.03	0.59
1:D:562:ILE:O	1:D:566:GLY:N	2.36	0.59
1:G:44:LYS:HD3	3:k:117:ILE:HD12	1.82	0.59
1:G:391:TYR:O	1:G:395:GLY:N	2.36	0.59
1:G:629:LEU:HD23	1:H:538:THR:CG2	2.33	0.59
1:L:161:ASN:ND2	1:M:223:MET:SD	2.75	0.59
1:N:44:LYS:HD3	3:r:117:ILE:HD12	1.82	0.59
1:N:318:ILE:CG2	1:N:319:VAL:H	2.15	0.59
1:N:591:ARG:N	1:N:595:GLU:OE1	2.27	0.59
1:O:44:LYS:HD3	3:s:117:ILE:HD12	1.82	0.59
1:A:137:ASP:O	1:A:140:PRO:HD2	2.02	0.59
1:B:137:ASP:O	1:B:140:PRO:HD2	2.02	0.59
1:C:501:GLU:HG3	1:C:527:VAL:O	2.02	0.59
1:C:562:ILE:O	1:C:566:GLY:N	2.36	0.59
1:C:621:GLU:HG2	1:D:436:LEU:CD1	2.33	0.59
1:D:143:ARG:O	1:D:147:ASP:HB2	2.03	0.59
1:E:325:VAL:HG22	1:E:328:ASP:CG	2.28	0.59
1:E:501:GLU:HG3	1:E:527:VAL:O	2.03	0.59
1:E:639:ALA:CB	2:T:104:GLN:HB3	2.27	0.59
1:K:501:GLU:HG3	1:K:527:VAL:O	2.02	0.59
1:L:45:ASN:CB	3:p:108:LEU:CD2	2.46	0.59
1:M:137:ASP:O	1:M:140:PRO:HD2	2.02	0.59
1:M:390:GLN:NE2	1:M:394:ASP:OD2	2.28	0.59
1:O:391:TYR:O	1:O:395:GLY:N	2.36	0.59
1:A:44:LYS:HD3	3:f:117:ILE:HD12	1.82	0.59
1:A:551:ASP:OD1	1:A:552:THR:N	2.35	0.59
1:A:620:SER:O	1:A:624:LEU:HG	2.03	0.59
1:E:551:ASP:OD1	1:E:552:THR:N	2.35	0.59
1:G:143:ARG:O	1:G:147:ASP:HB2	2.03	0.59
1:G:477:ARG:NH1	1:H:459:VAL:CG2	2.66	0.59
1:I:391:TYR:O	1:I:395:GLY:N	2.36	0.59
1:I:437:ALA:HA	1:J:546:ASP:OD1	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:143:ARG:O	1:L:147:ASP:HB2	2.03	0.59
1:L:325:VAL:HG22	1:L:328:ASP:CG	2.28	0.59
1:N:107:SER:HA	1:O:171:VAL:HG22	1.85	0.59
1:N:143:ARG:O	1:N:147:ASP:HB2	2.03	0.59
1:N:391:TYR:O	1:N:395:GLY:N	2.36	0.59
2:R:76:ALA:HB3	2:R:130:LEU:CD1	2.31	0.59
2:b:76:ALA:HB3	2:b:130:LEU:CD1	2.31	0.59
2:c:76:ALA:HB3	2:c:130:LEU:CD1	2.31	0.59
1:E:562:ILE:O	1:E:566:GLY:N	2.36	0.59
1:G:620:SER:O	1:G:624:LEU:HG	2.03	0.59
1:I:318:ILE:CG2	1:I:319:VAL:H	2.15	0.59
1:K:103:ASP:OD2	1:K:105:LYS:N	2.33	0.59
1:K:161:ASN:ND2	1:L:223:MET:SD	2.76	0.59
1:L:551:ASP:OD1	1:L:552:THR:N	2.35	0.59
1:M:200:ALA:N	1:N:324:ASP:OD2	2.36	0.59
1:N:107:SER:HB3	1:O:171:VAL:HG23	1.84	0.59
1:N:325:VAL:HG22	1:N:328:ASP:CG	2.28	0.59
1:B:325:VAL:HG22	1:B:328:ASP:CG	2.28	0.59
1:B:620:SER:O	1:B:624:LEU:HG	2.03	0.59
1:C:107:SER:HB3	1:D:171:VAL:HG23	1.84	0.59
1:C:325:VAL:HG22	1:C:328:ASP:CG	2.28	0.59
1:C:620:SER:O	1:C:624:LEU:HG	2.03	0.59
1:D:318:ILE:CG2	1:D:319:VAL:H	2.15	0.59
1:F:318:ILE:CG2	1:F:319:VAL:H	2.15	0.59
1:G:325:VAL:HG22	1:G:328:ASP:CG	2.28	0.59
1:H:391:TYR:O	1:H:395:GLY:N	2.36	0.59
1:J:107:SER:HA	1:K:171:VAL:HG22	1.84	0.59
1:K:620:SER:O	1:K:624:LEU:HG	2.03	0.59
1:N:501:GLU:HG3	1:N:527:VAL:O	2.03	0.59
1:N:620:SER:O	1:N:624:LEU:HG	2.03	0.59
1:O:620:SER:O	1:O:624:LEU:HG	2.03	0.59
2:P:76:ALA:HB3	2:P:130:LEU:CD1	2.31	0.59
1:A:639:ALA:CB	2:Q:104:GLN:HB3	2.27	0.59
1:B:562:ILE:O	1:B:566:GLY:N	2.36	0.59
1:D:620:SER:O	1:D:624:LEU:HG	2.03	0.59
1:E:137:ASP:O	1:E:140:PRO:HD2	2.02	0.59
1:F:137:ASP:O	1:F:140:PRO:HD2	2.02	0.59
1:F:501:GLU:HG3	1:F:527:VAL:O	2.02	0.59
1:F:562:ILE:O	1:F:566:GLY:N	2.36	0.59
1:J:325:VAL:HG22	1:J:328:ASP:CG	2.28	0.59
1:J:562:ILE:O	1:J:566:GLY:N	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:620:SER:O	1:J:624:LEU:HG	2.03	0.59
1:K:325:VAL:HG22	1:K:328:ASP:CG	2.28	0.59
1:K:391:TYR:O	1:K:395:GLY:N	2.36	0.59
1:L:137:ASP:O	1:L:140:PRO:HD2	2.02	0.59
1:O:325:VAL:HG22	1:O:328:ASP:CG	2.28	0.59
2:P:110:THR:O	2:P:115:GLN:NE2	2.30	0.59
3:g:110:SER:OG	3:g:115:ARG:O	2.14	0.59
1:A:391:TYR:O	1:A:395:GLY:N	2.36	0.58
1:B:501:GLU:HG3	1:B:527:VAL:O	2.02	0.58
1:C:137:ASP:O	1:C:140:PRO:HD2	2.02	0.58
1:E:107:SER:HB3	1:F:171:VAL:HG23	1.84	0.58
1:F:501:GLU:HG3	1:F:528:ASN:HB3	1.85	0.58
1:G:221:GLY:H	1:H:215:SER:HB3	1.67	0.58
1:I:325:VAL:HG22	1:I:328:ASP:CG	2.28	0.58
1:I:562:ILE:O	1:I:566:GLY:N	2.36	0.58
1:J:137:ASP:O	1:J:140:PRO:HD2	2.02	0.58
1:M:620:SER:O	1:M:624:LEU:HG	2.03	0.58
2:Q:76:ALA:HB3	2:Q:130:LEU:CD1	2.31	0.58
1:B:45:ASN:CB	3:g:108:LEU:CD2	2.46	0.58
1:C:143:ARG:O	1:C:147:ASP:HB2	2.03	0.58
1:D:107:SER:HB3	1:E:171:VAL:HG23	1.85	0.58
1:E:254:GLN:O	1:E:257:ARG:HG3	2.03	0.58
1:F:325:VAL:HG22	1:F:328:ASP:CG	2.28	0.58
1:F:391:TYR:O	1:F:395:GLY:N	2.36	0.58
1:G:137:ASP:O	1:G:140:PRO:HD2	2.02	0.58
1:H:143:ARG:O	1:H:147:ASP:HB2	2.03	0.58
1:H:325:VAL:HG22	1:H:328:ASP:CG	2.28	0.58
1:H:591:ARG:N	1:H:595:GLU:OE1	2.27	0.58
1:I:501:GLU:HG3	1:I:528:ASN:HB3	1.85	0.58
1:J:391:TYR:O	1:J:395:GLY:N	2.36	0.58
1:L:391:TYR:O	1:L:395:GLY:N	2.36	0.58
1:O:348:ILE:HG22	1:O:438:THR:HG22	1.85	0.58
1:A:254:GLN:O	1:A:257:ARG:HG3	2.03	0.58
1:B:44:LYS:HD3	3:g:117:ILE:HD12	1.82	0.58
1:E:107:SER:HA	1:F:171:VAL:HG22	1.85	0.58
1:J:103:ASP:OD2	1:J:105:LYS:N	2.33	0.58
1:K:254:GLN:O	1:K:257:ARG:HG3	2.03	0.58
1:K:562:ILE:O	1:K:566:GLY:N	2.36	0.58
1:N:562:ILE:O	1:N:566:GLY:N	2.36	0.58
1:N:596:TYR:OH	1:O:540:VAL:N	2.37	0.58
1:O:137:ASP:O	1:O:140:PRO:HD2	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:143:ARG:O	1:A:147:ASP:HB2	2.03	0.58
1:C:591:ARG:N	1:C:595:GLU:OE1	2.27	0.58
1:E:143:ARG:O	1:E:147:ASP:HB2	2.03	0.58
1:E:477:ARG:NH1	1:F:459:VAL:CG2	2.66	0.58
1:H:620:SER:O	1:H:624:LEU:HG	2.03	0.58
1:I:103:ASP:OD2	1:I:105:LYS:N	2.33	0.58
1:J:254:GLN:O	1:J:257:ARG:HG3	2.03	0.58
1:J:501:GLU:HG3	1:J:527:VAL:O	2.02	0.58
1:L:254:GLN:O	1:L:257:ARG:HG3	2.03	0.58
1:M:348:ILE:HG22	1:M:438:THR:HG22	1.85	0.58
2:X:54:GLY:C	2:X:123:LEU:CD1	2.77	0.58
2:a:76:ALA:HB3	2:a:130:LEU:CD1	2.31	0.58
1:C:221:GLY:H	1:D:215:SER:HB3	1.68	0.58
1:C:477:ARG:NH1	1:D:459:VAL:CG2	2.67	0.58
1:D:391:TYR:O	1:D:395:GLY:N	2.36	0.58
1:E:620:SER:O	1:E:624:LEU:HG	2.03	0.58
1:F:143:ARG:O	1:F:147:ASP:HB2	2.03	0.58
1:G:501:GLU:HG3	1:G:528:ASN:HB3	1.85	0.58
1:G:562:ILE:O	1:G:566:GLY:N	2.36	0.58
1:H:44:LYS:HD3	3:l:117:ILE:HD12	1.82	0.58
1:J:143:ARG:O	1:J:147:ASP:HB2	2.03	0.58
1:J:199:SER:HA	1:K:324:ASP:CB	2.34	0.58
1:M:254:GLN:O	1:M:257:ARG:HG3	2.03	0.58
1:N:501:GLU:HG3	1:N:528:ASN:HB3	1.85	0.58
1:O:45:ASN:CB	3:s:108:LEU:CD2	2.46	0.58
1:F:620:SER:O	1:F:624:LEU:HG	2.03	0.58
1:G:200:ALA:N	1:H:324:ASP:OD2	2.35	0.58
1:I:254:GLN:O	1:I:257:ARG:HG3	2.03	0.58
1:M:391:TYR:O	1:M:395:GLY:N	2.36	0.58
1:O:562:ILE:O	1:O:566:GLY:N	2.36	0.58
2:R:54:GLY:C	2:R:123:LEU:CD1	2.77	0.58
2:S:76:ALA:HB3	2:S:130:LEU:CD1	2.31	0.58
2:Y:54:GLY:C	2:Y:123:LEU:CD1	2.77	0.58
2:d:54:GLY:C	2:d:123:LEU:CD1	2.77	0.58
1:A:325:VAL:HG22	1:A:328:ASP:CG	2.28	0.58
1:B:254:GLN:O	1:B:257:ARG:HG3	2.03	0.58
1:B:591:ARG:N	1:B:595:GLU:OE1	2.27	0.58
1:D:501:GLU:HG3	1:D:528:ASN:HB3	1.85	0.58
1:F:254:GLN:O	1:F:257:ARG:HG3	2.03	0.58
1:G:501:GLU:HG3	1:G:527:VAL:O	2.03	0.58
1:H:501:GLU:HG3	1:H:528:ASN:HB3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:620:SER:O	1:L:624:LEU:HG	2.03	0.58
1:O:254:GLN:O	1:O:257:ARG:HG3	2.03	0.58
1:O:501:GLU:HG3	1:O:527:VAL:O	2.02	0.58
2:U:54:GLY:C	2:U:123:LEU:CD1	2.77	0.58
1:A:501:GLU:HG3	1:A:527:VAL:O	2.02	0.58
1:A:640:PHE:CB	2:Q:108:ASP:OD2	2.52	0.58
1:C:103:ASP:OD2	1:C:105:LYS:N	2.33	0.58
1:C:629:LEU:HD23	1:D:538:THR:CG2	2.33	0.58
1:D:103:ASP:OD2	1:D:105:LYS:N	2.33	0.58
1:D:161:ASN:ND2	1:E:223:MET:SD	2.76	0.58
1:D:254:GLN:O	1:D:257:ARG:HG3	2.03	0.58
1:F:348:ILE:HG22	1:F:438:THR:HG22	1.85	0.58
1:F:596:TYR:OH	1:G:539:VAL:HG13	2.04	0.58
1:M:562:ILE:O	1:M:566:GLY:N	2.36	0.58
1:O:501:GLU:HG3	1:O:528:ASN:HB3	1.85	0.58
1:O:640:PHE:CB	2:d:108:ASP:OD2	2.52	0.58
2:P:54:GLY:C	2:P:123:LEU:CD1	2.77	0.58
1:A:501:GLU:HG3	1:A:528:ASN:HB3	1.85	0.58
1:A:562:ILE:O	1:A:566:GLY:N	2.36	0.58
1:B:640:PHE:CB	2:R:108:ASP:OD2	2.52	0.58
1:D:325:VAL:HG22	1:D:328:ASP:CG	2.28	0.58
1:E:276:ALA:O	1:E:279:VAL:HG12	2.04	0.58
1:E:348:ILE:HG22	1:E:438:THR:HG22	1.85	0.58
1:G:161:ASN:ND2	1:H:223:MET:SD	2.77	0.58
1:H:639:ALA:CB	2:W:104:GLN:HB3	2.27	0.58
1:K:276:ALA:O	1:K:279:VAL:HG12	2.04	0.58
1:L:276:ALA:O	1:L:279:VAL:HG12	2.04	0.58
1:N:254:GLN:O	1:N:257:ARG:HG3	2.03	0.58
1:N:390:GLN:NE2	1:N:394:ASP:OD2	2.28	0.58
2:T:54:GLY:C	2:T:123:LEU:CD1	2.77	0.58
1:A:546:ASP:OD1	1:O:437:ALA:HA	2.04	0.58
1:B:391:TYR:O	1:B:395:GLY:N	2.36	0.58
1:B:501:GLU:HG3	1:B:528:ASN:HB3	1.85	0.58
1:D:640:PHE:HE1	2:S:119:PHE:CE1	2.22	0.58
1:H:107:SER:HA	1:I:171:VAL:HG22	1.86	0.58
1:H:107:SER:HB3	1:I:171:VAL:HG23	1.86	0.58
1:M:276:ALA:O	1:M:279:VAL:HG12	2.04	0.58
1:N:276:ALA:O	1:N:279:VAL:HG12	2.04	0.58
1:N:640:PHE:CB	2:c:108:ASP:OD2	2.52	0.58
1:O:276:ALA:O	1:O:279:VAL:HG12	2.04	0.58
1:O:640:PHE:HE1	2:d:119:PHE:CE1	2.22	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:276:ALA:O	1:A:279:VAL:HG12	2.04	0.57
1:B:143:ARG:O	1:B:147:ASP:HB2	2.03	0.57
1:B:200:ALA:N	1:C:324:ASP:OD2	2.37	0.57
1:B:348:ILE:HG22	1:B:438:THR:HG22	1.85	0.57
1:B:640:PHE:HE1	2:R:119:PHE:CE1	2.22	0.57
1:D:137:ASP:O	1:D:140:PRO:HD2	2.02	0.57
1:D:240:GLY:O	1:D:245:ARG:NH1	2.37	0.57
1:E:103:ASP:OD2	1:E:105:LYS:N	2.33	0.57
1:F:276:ALA:O	1:F:279:VAL:HG12	2.04	0.57
1:H:254:GLN:O	1:H:257:ARG:HG3	2.04	0.57
1:H:501:GLU:HG3	1:H:527:VAL:O	2.03	0.57
1:I:262:GLN:HB3	1:J:331:ARG:NH2	2.19	0.57
1:J:265:THR:HG23	1:J:320:THR:HG22	1.86	0.57
1:K:501:GLU:HG3	1:K:528:ASN:HB3	1.85	0.57
1:L:477:ARG:NH1	1:M:459:VAL:CG2	2.66	0.57
2:V:54:GLY:C	2:V:123:LEU:CD1	2.77	0.57
2:W:54:GLY:C	2:W:123:LEU:CD1	2.77	0.57
2:a:54:GLY:C	2:a:123:LEU:CD1	2.77	0.57
1:A:240:GLY:O	1:A:245:ARG:NH1	2.37	0.57
1:C:254:GLN:O	1:C:257:ARG:HG3	2.03	0.57
1:F:640:PHE:HE1	2:U:119:PHE:CE1	2.22	0.57
1:G:591:ARG:N	1:G:595:GLU:OE1	2.27	0.57
1:H:562:ILE:O	1:H:566:GLY:N	2.36	0.57
1:I:143:ARG:O	1:I:147:ASP:HB2	2.03	0.57
1:I:265:THR:HG23	1:I:320:THR:HG22	1.86	0.57
1:M:325:VAL:HG22	1:M:328:ASP:CG	2.28	0.57
2:d:76:ALA:HB3	2:d:130:LEU:CD1	2.31	0.57
1:D:138:LEU:HD23	1:D:138:LEU:H	1.70	0.57
1:D:219:LEU:HD11	1:D:222:SER:O	2.05	0.57
1:G:138:LEU:HD23	1:G:138:LEU:H	1.70	0.57
1:G:276:ALA:O	1:G:279:VAL:HG12	2.04	0.57
1:G:621:GLU:HG2	1:H:436:LEU:CD1	2.34	0.57
1:H:276:ALA:O	1:H:279:VAL:HG12	2.04	0.57
1:H:348:ILE:HG22	1:H:438:THR:HG22	1.85	0.57
1:I:276:ALA:O	1:I:279:VAL:HG12	2.04	0.57
1:I:348:ILE:HG22	1:I:438:THR:HG22	1.85	0.57
1:K:265:THR:HG23	1:K:320:THR:HG22	1.87	0.57
1:L:107:SER:HB3	1:M:171:VAL:HG23	1.87	0.57
1:M:240:GLY:O	1:M:245:ARG:NH1	2.37	0.57
1:M:501:GLU:HG3	1:M:528:ASN:HB3	1.85	0.57
1:M:629:LEU:HD23	1:N:538:THR:CG2	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:143:ARG:O	1:O:147:ASP:HB2	2.03	0.57
2:Z:76:ALA:HB3	2:Z:130:LEU:CD1	2.31	0.57
1:B:276:ALA:O	1:B:279:VAL:HG12	2.04	0.57
1:C:640:PHE:CB	2:P:108:ASP:OD2	2.52	0.57
1:D:200:ALA:N	1:E:324:ASP:OD2	2.36	0.57
1:D:596:TYR:OH	1:E:539:VAL:HG13	2.04	0.57
1:H:103:ASP:OD2	1:H:105:LYS:N	2.33	0.57
1:I:501:GLU:HG3	1:I:527:VAL:O	2.03	0.57
1:I:620:SER:O	1:I:624:LEU:HG	2.03	0.57
1:J:276:ALA:O	1:J:279:VAL:HG12	2.04	0.57
1:J:596:TYR:OH	1:K:540:VAL:N	2.37	0.57
1:K:143:ARG:O	1:K:147:ASP:HB2	2.03	0.57
1:K:270:LEU:HD23	1:K:270:LEU:H	1.70	0.57
1:K:348:ILE:HG22	1:K:438:THR:HG22	1.85	0.57
1:L:348:ILE:HG22	1:L:438:THR:HG22	1.85	0.57
1:L:501:GLU:HG3	1:L:528:ASN:HB3	1.85	0.57
1:L:562:ILE:O	1:L:566:GLY:N	2.36	0.57
1:N:49:THR:O	1:N:95:VAL:HB	2.05	0.57
2:W:39:ILE:HG22	2:W:39:ILE:O	2.05	0.57
2:Z:54:GLY:C	2:Z:123:LEU:CD1	2.77	0.57
2:b:39:ILE:HG22	2:b:39:ILE:O	2.05	0.57
1:B:221:GLY:H	1:C:215:SER:HB3	1.68	0.57
1:E:240:GLY:O	1:E:245:ARG:NH1	2.38	0.57
1:E:628:LEU:HB3	1:F:538:THR:HG1	1.66	0.57
1:G:219:LEU:HD11	1:G:222:SER:O	2.05	0.57
1:H:219:LEU:HD11	1:H:222:SER:O	2.05	0.57
1:H:265:THR:HG23	1:H:320:THR:HG22	1.87	0.57
1:I:270:LEU:HD23	1:I:270:LEU:H	1.70	0.57
1:L:66:ASP:OD1	1:L:67:MET:N	2.38	0.57
1:L:240:GLY:O	1:L:245:ARG:NH1	2.37	0.57
1:M:49:THR:O	1:M:95:VAL:HB	2.05	0.57
1:M:270:LEU:HD23	1:M:270:LEU:H	1.70	0.57
1:M:640:PHE:CB	2:b:108:ASP:OD2	2.52	0.57
1:O:49:THR:O	1:O:95:VAL:HB	2.05	0.57
1:A:331:ARG:NH2	1:O:262:GLN:HB3	2.19	0.57
1:C:596:TYR:OH	1:D:540:VAL:N	2.37	0.57
1:D:49:THR:O	1:D:95:VAL:HB	2.05	0.57
1:D:270:LEU:HD23	1:D:270:LEU:H	1.70	0.57
1:G:640:PHE:CB	2:V:108:ASP:OD2	2.52	0.57
1:J:348:ILE:HG22	1:J:438:THR:HG22	1.85	0.57
1:L:265:THR:HG23	1:L:320:THR:HG22	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:143:ARG:O	1:M:147:ASP:HB2	2.03	0.57
1:M:265:THR:HG23	1:M:320:THR:HG22	1.86	0.57
1:N:199:SER:HA	1:O:324:ASP:CB	2.35	0.57
1:N:348:ILE:HG22	1:N:438:THR:HG22	1.85	0.57
2:T:76:ALA:HB3	2:T:130:LEU:CD1	2.31	0.57
2:a:39:ILE:O	2:a:39:ILE:HG22	2.05	0.57
1:A:437:ALA:HA	1:B:546:ASP:CG	2.29	0.57
1:A:596:TYR:OH	1:B:540:VAL:N	2.38	0.57
1:C:219:LEU:HD11	1:C:222:SER:O	2.05	0.57
1:C:240:GLY:O	1:C:245:ARG:NH1	2.38	0.57
1:D:276:ALA:O	1:D:279:VAL:HG12	2.04	0.57
1:E:49:THR:O	1:E:95:VAL:HB	2.05	0.57
1:E:501:GLU:HG3	1:E:528:ASN:HB3	1.85	0.57
1:G:477:ARG:HH11	1:H:459:VAL:HB	1.65	0.57
1:H:49:THR:O	1:H:95:VAL:HB	2.05	0.57
1:H:66:ASP:OD1	1:H:67:MET:N	2.38	0.57
1:H:240:GLY:O	1:H:245:ARG:NH1	2.38	0.57
1:I:44:LYS:HD3	3:m:117:ILE:HD12	1.82	0.57
1:I:66:ASP:OD1	1:I:67:MET:N	2.38	0.57
1:J:138:LEU:HD23	1:J:138:LEU:H	1.70	0.57
1:J:640:PHE:CB	2:Y:108:ASP:OD2	2.52	0.57
1:L:49:THR:O	1:L:95:VAL:HB	2.05	0.57
1:M:477:ARG:NH1	1:N:459:VAL:CG2	2.68	0.57
1:O:240:GLY:O	1:O:245:ARG:NH1	2.37	0.57
2:S:54:GLY:C	2:S:123:LEU:CD1	2.77	0.57
2:b:54:GLY:C	2:b:123:LEU:CD1	2.77	0.57
2:c:54:GLY:C	2:c:123:LEU:CD1	2.77	0.57
1:A:270:LEU:HD23	1:A:270:LEU:H	1.70	0.57
1:B:240:GLY:O	1:B:245:ARG:NH1	2.37	0.57
1:C:501:GLU:HG3	1:C:528:ASN:HB3	1.85	0.57
1:D:348:ILE:HG22	1:D:438:THR:HG22	1.85	0.57
1:F:640:PHE:CB	2:U:108:ASP:OD2	2.52	0.57
1:G:240:GLY:O	1:G:245:ARG:NH1	2.37	0.57
1:G:254:GLN:O	1:G:257:ARG:HG3	2.03	0.57
1:H:477:ARG:NH1	1:I:459:VAL:CG2	2.67	0.57
1:I:49:THR:O	1:I:95:VAL:HB	2.05	0.57
1:I:138:LEU:HD23	1:I:138:LEU:H	1.70	0.57
1:K:640:PHE:CB	2:Z:108:ASP:OD2	2.52	0.57
1:M:66:ASP:OD1	1:M:67:MET:N	2.38	0.57
1:M:640:PHE:HE1	2:b:119:PHE:CE1	2.22	0.57
1:C:161:ASN:ND2	1:D:223:MET:SD	2.77	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:199:SER:HA	1:F:324:ASP:CB	2.34	0.57
1:F:138:LEU:HD23	1:F:138:LEU:H	1.70	0.57
1:F:240:GLY:O	1:F:245:ARG:NH1	2.38	0.57
1:G:265:THR:HG23	1:G:320:THR:HG22	1.87	0.57
1:G:270:LEU:HD23	1:G:270:LEU:H	1.70	0.57
1:I:640:PHE:HE1	2:X:119:PHE:CE1	2.22	0.57
1:N:621:GLU:HG2	1:O:436:LEU:CD1	2.35	0.57
2:Q:54:GLY:C	2:Q:123:LEU:CD1	2.77	0.57
2:X:39:ILE:O	2:X:39:ILE:HG22	2.05	0.57
1:A:49:THR:O	1:A:95:VAL:HB	2.05	0.57
1:C:138:LEU:HD23	1:C:138:LEU:H	1.70	0.57
1:E:138:LEU:HD23	1:E:138:LEU:H	1.70	0.57
1:E:596:TYR:OH	1:F:540:VAL:N	2.37	0.57
1:F:103:ASP:OD2	1:F:105:LYS:N	2.33	0.57
1:H:640:PHE:CB	2:W:108:ASP:OD2	2.52	0.57
1:H:640:PHE:HE1	2:W:119:PHE:CE1	2.22	0.57
1:K:640:PHE:HE1	2:Z:119:PHE:CE1	2.22	0.57
1:L:107:SER:HA	1:M:171:VAL:HG22	1.86	0.57
1:O:270:LEU:HD23	1:O:270:LEU:H	1.70	0.57
2:V:39:ILE:O	2:V:39:ILE:HG22	2.05	0.57
3:e:110:SER:OG	3:e:115:ARG:O	2.14	0.57
1:A:138:LEU:HD23	1:A:138:LEU:H	1.70	0.56
1:A:265:THR:HG23	1:A:320:THR:HG22	1.86	0.56
1:A:324:ASP:OD2	1:O:200:ALA:N	2.38	0.56
1:B:270:LEU:HD23	1:B:270:LEU:H	1.70	0.56
1:C:49:THR:O	1:C:95:VAL:HB	2.05	0.56
1:C:276:ALA:O	1:C:279:VAL:HG12	2.04	0.56
1:E:219:LEU:HD11	1:E:222:SER:O	2.05	0.56
1:I:240:GLY:O	1:I:245:ARG:NH1	2.38	0.56
1:J:629:LEU:HD23	1:K:538:THR:CG2	2.35	0.56
1:L:179:VAL:HA	1:L:182:VAL:HG12	1.87	0.56
1:L:640:PHE:CB	2:a:108:ASP:OD2	2.52	0.56
1:M:179:VAL:HA	1:M:182:VAL:HG12	1.87	0.56
1:N:240:GLY:O	1:N:245:ARG:NH1	2.37	0.56
1:N:477:ARG:NH1	1:O:459:VAL:CG2	2.67	0.56
2:c:39:ILE:O	2:c:39:ILE:HG22	2.05	0.56
1:B:477:ARG:NH1	1:C:459:VAL:CG2	2.67	0.56
1:G:348:ILE:HG22	1:G:438:THR:HG22	1.85	0.56
1:I:640:PHE:CB	2:X:108:ASP:OD2	2.52	0.56
1:J:501:GLU:HG3	1:J:528:ASN:HB3	1.85	0.56
1:N:179:VAL:HA	1:N:182:VAL:HG12	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:265:THR:HG23	1:N:320:THR:HG22	1.86	0.56
2:R:39:ILE:HG22	2:R:39:ILE:O	2.05	0.56
1:A:199:SER:HA	1:B:324:ASP:CB	2.36	0.56
1:A:539:VAL:HG13	1:O:596:TYR:OH	2.05	0.56
1:B:138:LEU:HD23	1:B:138:LEU:H	1.70	0.56
1:B:161:ASN:ND2	1:C:223:MET:SD	2.77	0.56
1:D:640:PHE:CB	2:S:108:ASP:OD2	2.52	0.56
1:E:640:PHE:CB	2:T:108:ASP:OD2	2.52	0.56
1:F:265:THR:HG23	1:F:320:THR:HG22	1.86	0.56
1:G:66:ASP:OD1	1:G:67:MET:N	2.38	0.56
1:G:596:TYR:OH	1:H:540:VAL:N	2.38	0.56
1:J:90:ASN:HA	1:J:96:LEU:HA	1.88	0.56
1:J:596:TYR:OH	1:K:539:VAL:HG13	2.04	0.56
1:K:49:THR:O	1:K:95:VAL:HB	2.05	0.56
1:K:90:ASN:HA	1:K:96:LEU:HA	1.88	0.56
1:K:192:THR:HG22	1:K:237:LEU:HD13	1.88	0.56
1:K:240:GLY:O	1:K:245:ARG:NH1	2.37	0.56
1:K:596:TYR:OH	1:L:539:VAL:HG13	2.05	0.56
1:L:192:THR:HG22	1:L:237:LEU:HD13	1.88	0.56
1:L:640:PHE:HE1	2:a:119:PHE:CE1	2.22	0.56
1:N:270:LEU:HD23	1:N:270:LEU:H	1.70	0.56
1:N:596:TYR:OH	1:O:539:VAL:HG13	2.05	0.56
2:P:39:ILE:O	2:P:39:ILE:HG22	2.05	0.56
2:Q:39:ILE:O	2:Q:39:ILE:HG22	2.05	0.56
2:U:124:ALA:HB3	2:U:125:PRO:HD3	1.87	0.56
2:Y:76:ALA:HB3	2:Y:130:LEU:CD1	2.31	0.56
2:Z:39:ILE:HG22	2:Z:39:ILE:O	2.05	0.56
1:A:139:ALA:HB1	1:A:143:ARG:NH2	2.21	0.56
1:D:137:ASP:OD1	1:D:138:LEU:N	2.39	0.56
1:E:270:LEU:HD23	1:E:270:LEU:H	1.70	0.56
1:F:137:ASP:OD1	1:F:138:LEU:N	2.39	0.56
1:G:49:THR:O	1:G:95:VAL:HB	2.05	0.56
1:G:192:THR:HG22	1:G:237:LEU:HD13	1.87	0.56
1:H:192:THR:HG22	1:H:237:LEU:HD13	1.88	0.56
1:I:90:ASN:HA	1:I:96:LEU:HA	1.88	0.56
1:J:49:THR:O	1:J:95:VAL:HB	2.05	0.56
1:J:66:ASP:OD1	1:J:67:MET:N	2.38	0.56
1:J:192:THR:HG22	1:J:237:LEU:HD13	1.87	0.56
1:L:90:ASN:HA	1:L:96:LEU:HA	1.88	0.56
1:L:138:LEU:HD23	1:L:138:LEU:H	1.70	0.56
1:M:90:ASN:HA	1:M:96:LEU:HA	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:138:LEU:HD23	1:M:138:LEU:H	1.70	0.56
1:M:192:THR:HG22	1:M:237:LEU:HD13	1.88	0.56
3:n:110:SER:OG	3:n:115:ARG:O	2.14	0.56
1:B:139:ALA:HB1	1:B:143:ARG:NH2	2.21	0.56
1:C:139:ALA:HB1	1:C:143:ARG:NH2	2.21	0.56
1:C:348:ILE:HG22	1:C:438:THR:HG22	1.85	0.56
1:F:219:LEU:HD11	1:F:222:SER:O	2.05	0.56
1:F:477:ARG:NH1	1:G:459:VAL:CG2	2.69	0.56
1:G:640:PHE:HE1	2:V:119:PHE:CE1	2.22	0.56
1:I:192:THR:HG22	1:I:237:LEU:HD13	1.87	0.56
1:K:179:VAL:HA	1:K:182:VAL:HG12	1.87	0.56
1:N:90:ASN:HA	1:N:96:LEU:HA	1.88	0.56
1:N:139:ALA:HB1	1:N:143:ARG:NH2	2.21	0.56
1:O:90:ASN:HA	1:O:96:LEU:HA	1.88	0.56
2:T:124:ALA:HB3	2:T:125:PRO:HD3	1.87	0.56
2:V:124:ALA:HB3	2:V:125:PRO:HD3	1.87	0.56
1:A:66:ASP:OD1	1:A:67:MET:N	2.38	0.56
1:A:640:PHE:HE1	2:Q:119:PHE:CE1	2.22	0.56
1:B:49:THR:O	1:B:95:VAL:HB	2.05	0.56
1:B:265:THR:HG23	1:B:320:THR:HG22	1.87	0.56
1:F:90:ASN:HA	1:F:96:LEU:HA	1.88	0.56
1:F:270:LEU:HD23	1:F:270:LEU:H	1.70	0.56
1:G:103:ASP:OD2	1:G:105:LYS:N	2.33	0.56
1:G:306:ILE:HG23	1:G:321:ALA:CB	2.36	0.56
1:H:95:VAL:HG12	1:H:96:LEU:N	2.21	0.56
1:H:306:ILE:HG23	1:H:321:ALA:CB	2.36	0.56
1:I:219:LEU:HD11	1:I:222:SER:O	2.05	0.56
1:I:596:TYR:OH	1:J:540:VAL:N	2.39	0.56
1:J:95:VAL:HG12	1:J:96:LEU:N	2.21	0.56
1:L:200:ALA:N	1:M:324:ASP:OD2	2.37	0.56
1:M:137:ASP:OD1	1:M:138:LEU:N	2.39	0.56
1:A:459:VAL:CG2	1:O:477:ARG:NH1	2.69	0.56
1:C:66:ASP:OD1	1:C:67:MET:N	2.38	0.56
1:C:270:LEU:HD23	1:C:270:LEU:H	1.70	0.56
1:C:484:LEU:HD13	1:C:484:LEU:C	2.31	0.56
1:E:139:ALA:HB1	1:E:143:ARG:NH2	2.21	0.56
1:F:49:THR:O	1:F:95:VAL:HB	2.05	0.56
1:F:107:SER:HA	1:G:171:VAL:HG22	1.88	0.56
1:F:192:THR:HG22	1:F:237:LEU:HD13	1.87	0.56
1:H:90:ASN:HA	1:H:96:LEU:HA	1.88	0.56
1:I:629:LEU:HD23	1:J:538:THR:CG2	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:95:VAL:HG12	1:L:96:LEU:N	2.21	0.56
1:L:596:TYR:OH	1:M:539:VAL:HG13	2.05	0.56
1:N:66:ASP:OD1	1:N:67:MET:N	2.38	0.56
1:N:137:ASP:OD1	1:N:138:LEU:N	2.39	0.56
1:N:192:THR:HG22	1:N:237:LEU:HD13	1.87	0.56
1:O:139:ALA:HB1	1:O:143:ARG:NH2	2.21	0.56
1:O:179:VAL:HA	1:O:182:VAL:HG12	1.87	0.56
1:O:219:LEU:HD11	1:O:222:SER:O	2.05	0.56
2:S:124:ALA:HB3	2:S:125:PRO:HD3	1.87	0.56
2:W:124:ALA:HB3	2:W:125:PRO:HD3	1.87	0.56
1:A:90:ASN:HA	1:A:96:LEU:HA	1.88	0.56
1:B:66:ASP:OD1	1:B:67:MET:N	2.38	0.56
1:B:137:ASP:OD1	1:B:138:LEU:N	2.39	0.56
1:C:265:THR:HG23	1:C:320:THR:HG22	1.86	0.56
1:C:545:LEU:HA	1:C:580:ASN:HA	1.88	0.56
1:C:628:LEU:HB3	1:D:538:THR:HG1	1.66	0.56
1:E:640:PHE:HE1	2:T:119:PHE:CE1	2.22	0.56
1:G:90:ASN:HA	1:G:96:LEU:HA	1.88	0.56
1:J:240:GLY:O	1:J:245:ARG:NH1	2.37	0.56
1:K:107:SER:HB3	1:L:171:VAL:HG23	1.88	0.56
1:K:219:LEU:HD11	1:K:222:SER:O	2.05	0.56
1:N:219:LEU:HD11	1:N:222:SER:O	2.05	0.56
1:N:628:LEU:HB3	1:O:538:THR:HG1	1.68	0.56
1:N:640:PHE:HE1	2:c:119:PHE:CE1	2.22	0.56
1:O:66:ASP:OD1	1:O:67:MET:N	2.38	0.56
2:U:76:ALA:HB3	2:U:130:LEU:CD1	2.31	0.56
2:d:124:ALA:HB3	2:d:125:PRO:HD3	1.87	0.56
1:A:219:LEU:HD11	1:A:222:SER:O	2.05	0.56
1:A:348:ILE:HG22	1:A:438:THR:HG22	1.85	0.56
1:C:179:VAL:HA	1:C:182:VAL:HG12	1.87	0.56
1:D:265:THR:HG23	1:D:320:THR:HG22	1.86	0.56
1:E:265:THR:HG23	1:E:320:THR:HG22	1.86	0.56
1:F:179:VAL:HA	1:F:182:VAL:HG12	1.87	0.56
1:F:306:ILE:HG23	1:F:321:ALA:CB	2.36	0.56
1:G:179:VAL:HA	1:G:182:VAL:HG12	1.87	0.56
1:G:199:SER:HA	1:H:324:ASP:CB	2.36	0.56
1:H:138:LEU:H	1:H:138:LEU:HD23	1.70	0.56
1:H:200:ALA:N	1:I:324:ASP:OD2	2.36	0.56
1:H:221:GLY:H	1:I:215:SER:HB3	1.71	0.56
1:J:437:ALA:HA	1:K:546:ASP:CG	2.31	0.56
1:K:137:ASP:OD1	1:K:138:LEU:N	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:554:ASP:OD1	1:K:571:SER:HB2	2.06	0.56
1:M:554:ASP:OD1	1:M:571:SER:HB2	2.06	0.56
1:O:265:THR:HG23	1:O:320:THR:HG22	1.87	0.56
2:S:39:ILE:O	2:S:39:ILE:HG22	2.05	0.56
2:Y:39:ILE:O	2:Y:39:ILE:HG22	2.05	0.56
1:B:484:LEU:C	1:B:484:LEU:HD13	2.31	0.56
1:B:545:LEU:HA	1:B:580:ASN:HA	1.88	0.56
1:B:621:GLU:HG2	1:C:436:LEU:CD1	2.36	0.56
1:D:179:VAL:HA	1:D:182:VAL:HG12	1.88	0.56
1:D:484:LEU:C	1:D:484:LEU:HD13	2.31	0.56
1:D:639:ALA:CB	2:S:104:GLN:HB3	2.27	0.56
1:E:90:ASN:HA	1:E:96:LEU:HA	1.88	0.56
1:E:179:VAL:HA	1:E:182:VAL:HG12	1.88	0.56
1:F:554:ASP:OD1	1:F:571:SER:HB2	2.06	0.56
1:G:139:ALA:HB1	1:G:143:ARG:NH2	2.21	0.56
1:H:137:ASP:OD1	1:H:138:LEU:N	2.39	0.56
1:H:179:VAL:HA	1:H:182:VAL:HG12	1.87	0.56
1:I:621:GLU:HG2	1:J:436:LEU:CD1	2.35	0.56
1:J:137:ASP:OD1	1:J:138:LEU:N	2.39	0.56
1:M:219:LEU:HD11	1:M:222:SER:O	2.05	0.56
1:O:138:LEU:HD23	1:O:138:LEU:H	1.70	0.56
2:Q:124:ALA:HB3	2:Q:125:PRO:HD3	1.87	0.56
2:U:39:ILE:HG22	2:U:39:ILE:O	2.05	0.56
2:c:124:ALA:HB3	2:c:125:PRO:HD3	1.87	0.56
2:d:39:ILE:O	2:d:39:ILE:HG22	2.05	0.56
1:B:554:ASP:OD1	1:B:571:SER:HB2	2.06	0.55
1:C:90:ASN:HA	1:C:96:LEU:HA	1.88	0.55
1:C:640:PHE:HE1	2:P:119:PHE:CE1	2.22	0.55
1:D:545:LEU:HA	1:D:580:ASN:HA	1.88	0.55
1:G:137:ASP:OD1	1:G:138:LEU:N	2.39	0.55
1:I:137:ASP:OD1	1:I:138:LEU:N	2.39	0.55
1:I:306:ILE:HG23	1:I:321:ALA:CB	2.36	0.55
1:I:554:ASP:OD1	1:I:571:SER:HB2	2.06	0.55
1:J:44:LYS:HD3	3:n:117:ILE:HD12	1.82	0.55
1:J:640:PHE:HE1	2:Y:119:PHE:CE1	2.22	0.55
1:L:270:LEU:HD23	1:L:270:LEU:H	1.70	0.55
1:L:306:ILE:HG23	1:L:321:ALA:CB	2.36	0.55
1:B:219:LEU:HD11	1:B:222:SER:O	2.05	0.55
1:C:200:ALA:N	1:D:324:ASP:OD2	2.35	0.55
1:D:66:ASP:OD1	1:D:67:MET:N	2.38	0.55
1:D:90:ASN:HA	1:D:96:LEU:HA	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:139:ALA:HB1	1:D:143:ARG:NH2	2.21	0.55
1:D:477:ARG:NH1	1:E:459:VAL:CG2	2.69	0.55
1:E:137:ASP:OD1	1:E:138:LEU:N	2.39	0.55
1:E:192:THR:HG22	1:E:237:LEU:HD13	1.88	0.55
1:E:484:LEU:C	1:E:484:LEU:HD13	2.31	0.55
1:H:554:ASP:OD1	1:H:571:SER:HB2	2.06	0.55
1:H:596:TYR:OH	1:I:539:VAL:HG13	2.06	0.55
1:J:262:GLN:N	1:K:331:ARG:HH22	2.01	0.55
1:K:138:LEU:HD23	1:K:138:LEU:H	1.70	0.55
1:L:139:ALA:HB1	1:L:143:ARG:NH2	2.21	0.55
1:L:545:LEU:HA	1:L:580:ASN:HA	1.88	0.55
1:M:306:ILE:HG23	1:M:321:ALA:CB	2.36	0.55
1:N:306:ILE:HG23	1:N:321:ALA:CB	2.36	0.55
1:A:545:LEU:HA	1:A:580:ASN:HA	1.88	0.55
1:B:179:VAL:HA	1:B:182:VAL:HG12	1.88	0.55
1:D:554:ASP:OD1	1:D:571:SER:HB2	2.06	0.55
1:E:66:ASP:OD1	1:E:67:MET:N	2.38	0.55
1:E:259:GLN:HE21	1:F:331:ARG:NH1	2.05	0.55
1:J:219:LEU:HD11	1:J:222:SER:O	2.05	0.55
1:J:477:ARG:NH1	1:K:459:VAL:CG2	2.68	0.55
1:L:219:LEU:HD11	1:L:222:SER:O	2.05	0.55
1:L:221:GLY:H	1:M:215:SER:HB3	1.69	0.55
1:M:639:ALA:CB	2:b:104:GLN:HB3	2.27	0.55
1:N:629:LEU:HD23	1:O:538:THR:CG2	2.36	0.55
1:O:192:THR:HG22	1:O:237:LEU:HD13	1.87	0.55
1:O:554:ASP:OD1	1:O:571:SER:HB2	2.06	0.55
2:Q:76:ALA:HB1	2:Q:130:LEU:HD12	1.88	0.55
2:X:76:ALA:HB3	2:X:130:LEU:CD1	2.31	0.55
2:X:124:ALA:HB3	2:X:125:PRO:HD3	1.87	0.55
1:F:66:ASP:OD1	1:F:67:MET:N	2.38	0.55
1:G:554:ASP:OD1	1:G:571:SER:HB2	2.06	0.55
1:I:179:VAL:HA	1:I:182:VAL:HG12	1.87	0.55
1:J:179:VAL:HA	1:J:182:VAL:HG12	1.87	0.55
1:J:270:LEU:HD23	1:J:270:LEU:H	1.70	0.55
1:K:306:ILE:HG23	1:K:321:ALA:CB	2.36	0.55
1:K:545:LEU:HA	1:K:580:ASN:HA	1.88	0.55
1:L:142:LEU:HD22	1:L:155:VAL:HG21	1.89	0.55
1:M:142:LEU:HD22	1:M:155:VAL:HG21	1.89	0.55
1:N:142:LEU:HD22	1:N:155:VAL:HG21	1.89	0.55
1:N:554:ASP:OD1	1:N:571:SER:HB2	2.06	0.55
2:P:124:ALA:HB3	2:P:125:PRO:HD3	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:137:ASP:OD1	1:A:138:LEU:N	2.39	0.55
1:B:90:ASN:HA	1:B:96:LEU:HA	1.88	0.55
1:C:306:ILE:HG23	1:C:321:ALA:CB	2.36	0.55
1:F:484:LEU:HD13	1:F:484:LEU:C	2.31	0.55
1:H:484:LEU:HD13	1:H:484:LEU:C	2.31	0.55
1:O:306:ILE:HG23	1:O:321:ALA:CB	2.36	0.55
1:A:179:VAL:HA	1:A:182:VAL:HG12	1.87	0.55
1:A:306:ILE:HG23	1:A:321:ALA:CB	2.36	0.55
1:A:484:LEU:HD13	1:A:484:LEU:C	2.31	0.55
1:B:306:ILE:HG23	1:B:321:ALA:CB	2.36	0.55
1:E:306:ILE:HG23	1:E:321:ALA:CB	2.36	0.55
1:E:545:LEU:HA	1:E:580:ASN:HA	1.88	0.55
1:F:142:LEU:HD22	1:F:155:VAL:HG21	1.89	0.55
1:I:139:ALA:HB1	1:I:143:ARG:NH2	2.21	0.55
1:I:484:LEU:HD13	1:I:484:LEU:C	2.31	0.55
1:K:221:GLY:H	1:L:215:SER:HB3	1.71	0.55
1:L:484:LEU:C	1:L:484:LEU:HD13	2.31	0.55
1:M:545:LEU:HA	1:M:580:ASN:HA	1.88	0.55
2:V:76:ALA:HB3	2:V:130:LEU:CD1	2.31	0.55
1:A:107:SER:HA	1:B:171:VAL:HG22	1.89	0.55
1:A:554:ASP:OD1	1:A:571:SER:HB2	2.06	0.55
1:D:192:THR:HG22	1:D:237:LEU:HD13	1.88	0.55
1:G:484:LEU:C	1:G:484:LEU:HD13	2.31	0.55
1:H:270:LEU:H	1:H:270:LEU:HD23	1.70	0.55
1:J:545:LEU:HA	1:J:580:ASN:HA	1.88	0.55
1:L:137:ASP:OD1	1:L:138:LEU:N	2.39	0.55
1:M:139:ALA:HB1	1:M:143:ARG:NH2	2.21	0.55
1:N:138:LEU:HD23	1:N:138:LEU:H	1.70	0.55
2:T:39:ILE:O	2:T:39:ILE:HG22	2.05	0.55
2:Y:76:ALA:HB1	2:Y:130:LEU:HD12	1.88	0.55
2:Y:124:ALA:HB3	2:Y:125:PRO:HD3	1.87	0.55
2:b:124:ALA:HB3	2:b:125:PRO:HD3	1.87	0.55
1:A:192:THR:HG22	1:A:237:LEU:HD13	1.87	0.55
1:D:45:ASN:CB	3:h:108:LEU:CD2	2.46	0.55
1:E:554:ASP:OD1	1:E:571:SER:HB2	2.06	0.55
1:F:139:ALA:HB1	1:F:143:ARG:NH2	2.21	0.55
1:G:142:LEU:HD22	1:G:155:VAL:HG21	1.89	0.55
1:K:139:ALA:HB1	1:K:143:ARG:NH2	2.21	0.55
1:N:221:GLY:H	1:O:215:SER:HB3	1.70	0.55
2:R:124:ALA:HB3	2:R:125:PRO:HD3	1.87	0.55
1:C:192:THR:HG22	1:C:237:LEU:HD13	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:221:GLY:H	1:E:215:SER:HB3	1.71	0.55
1:E:142:LEU:HD22	1:E:155:VAL:HG21	1.89	0.55
1:G:158:GLU:OE2	1:H:133:VAL:HG11	2.07	0.55
1:J:484:LEU:C	1:J:484:LEU:HD13	2.31	0.55
1:K:107:SER:HA	1:L:171:VAL:HG22	1.88	0.55
1:K:142:LEU:HD22	1:K:155:VAL:HG21	1.89	0.55
1:L:554:ASP:OD1	1:L:571:SER:HB2	2.06	0.55
1:O:137:ASP:OD1	1:O:138:LEU:N	2.39	0.55
1:O:545:LEU:HA	1:O:580:ASN:HA	1.88	0.55
1:A:201:ALA:O	1:A:205:LYS:CB	2.55	0.55
1:B:192:THR:HG22	1:B:237:LEU:HD13	1.88	0.55
1:B:201:ALA:O	1:B:205:LYS:CB	2.55	0.55
1:C:137:ASP:OD1	1:C:138:LEU:N	2.39	0.55
1:C:201:ALA:O	1:C:205:LYS:CB	2.55	0.55
1:C:554:ASP:OD1	1:C:571:SER:HB2	2.06	0.55
1:D:306:ILE:HG23	1:D:321:ALA:CB	2.36	0.55
1:H:91:MET:HG3	1:H:92:ASN:H	1.72	0.55
1:O:142:LEU:HD22	1:O:155:VAL:HG21	1.89	0.55
2:Z:124:ALA:HB3	2:Z:125:PRO:HD3	1.87	0.55
1:J:91:MET:HG3	1:J:92:ASN:H	1.73	0.54
1:J:139:ALA:HB1	1:J:143:ARG:NH2	2.21	0.54
1:J:306:ILE:HG23	1:J:321:ALA:CB	2.36	0.54
1:K:477:ARG:NH1	1:L:459:VAL:CG2	2.70	0.54
1:K:484:LEU:HD13	1:K:484:LEU:C	2.31	0.54
1:M:437:ALA:HA	1:N:546:ASP:CG	2.32	0.54
1:N:545:LEU:HA	1:N:580:ASN:HA	1.88	0.54
2:W:76:ALA:HB3	2:W:130:LEU:CD1	2.31	0.54
2:W:76:ALA:HB1	2:W:130:LEU:HD12	1.88	0.54
1:A:259:GLN:HE21	1:B:331:ARG:NH1	2.05	0.54
1:F:107:SER:HB3	1:G:171:VAL:HG23	1.89	0.54
1:J:554:ASP:OD1	1:J:571:SER:HB2	2.06	0.54
1:K:66:ASP:OD1	1:K:67:MET:N	2.38	0.54
1:M:91:MET:HG3	1:M:92:ASN:H	1.72	0.54
1:A:223:MET:SD	1:O:161:ASN:ND2	2.79	0.54
1:A:596:TYR:OH	1:B:539:VAL:HG13	2.07	0.54
1:B:629:LEU:HD23	1:C:538:THR:CG2	2.36	0.54
1:D:201:ALA:O	1:D:205:LYS:CB	2.55	0.54
1:G:111:VAL:HG12	1:G:125:THR:HB	1.90	0.54
1:H:142:LEU:HD22	1:H:155:VAL:HG21	1.89	0.54
1:I:111:VAL:HG12	1:I:125:THR:HB	1.90	0.54
1:K:91:MET:HG3	1:K:92:ASN:H	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:91:MET:HG3	1:O:92:ASN:H	1.72	0.54
1:O:201:ALA:O	1:O:205:LYS:CB	2.55	0.54
1:O:484:LEU:C	1:O:484:LEU:HD13	2.31	0.54
1:H:111:VAL:HG12	1:H:125:THR:HB	1.90	0.54
1:H:139:ALA:HB1	1:H:143:ARG:NH2	2.21	0.54
1:I:545:LEU:HA	1:I:580:ASN:HA	1.88	0.54
1:L:91:MET:HG3	1:L:92:ASN:H	1.72	0.54
1:M:44:LYS:HZ1	3:q:128:SER:CB	2.20	0.54
1:M:496:VAL:HG21	1:M:587:PRO:HG3	1.90	0.54
1:O:325:VAL:O	1:O:328:ASP:CG	2.51	0.54
1:A:107:SER:HB3	1:B:171:VAL:HG23	1.88	0.54
1:B:325:VAL:O	1:B:328:ASP:CG	2.51	0.54
1:B:549:VAL:HG23	1:B:576:VAL:HG12	1.90	0.54
1:C:199:SER:HA	1:D:324:ASP:CB	2.37	0.54
1:C:325:VAL:O	1:C:328:ASP:CG	2.51	0.54
1:C:549:VAL:HG23	1:C:576:VAL:HG12	1.90	0.54
1:D:142:LEU:HD22	1:D:155:VAL:HG21	1.89	0.54
1:D:629:LEU:HD23	1:E:538:THR:CG2	2.37	0.54
1:E:91:MET:HG3	1:E:92:ASN:H	1.72	0.54
1:F:111:VAL:HG12	1:F:125:THR:HB	1.90	0.54
1:M:484:LEU:C	1:M:484:LEU:HD13	2.31	0.54
3:m:150:ILE:HB	3:m:161:ILE:HB	1.90	0.54
1:A:325:VAL:O	1:A:328:ASP:CG	2.51	0.54
1:C:353:GLN:HG2	1:C:579:ARG:HD3	1.90	0.54
1:D:325:VAL:O	1:D:328:ASP:CG	2.51	0.54
1:D:596:TYR:OH	1:E:540:VAL:N	2.41	0.54
1:E:201:ALA:O	1:E:205:LYS:CB	2.55	0.54
1:E:353:GLN:HG2	1:E:579:ARG:HD3	1.90	0.54
1:E:596:TYR:OH	1:F:539:VAL:HG13	2.08	0.54
1:F:91:MET:HG3	1:F:92:ASN:H	1.72	0.54
1:G:437:ALA:HA	1:H:546:ASP:CG	2.33	0.54
1:I:496:VAL:HG21	1:I:587:PRO:HG3	1.90	0.54
1:J:142:LEU:HD22	1:J:155:VAL:HG21	1.89	0.54
1:J:353:GLN:HG2	1:J:579:ARG:HD3	1.90	0.54
1:J:621:GLU:HG2	1:K:436:LEU:CD1	2.37	0.54
1:L:353:GLN:HG2	1:L:579:ARG:HD3	1.90	0.54
1:N:201:ALA:O	1:N:205:LYS:CB	2.55	0.54
1:N:484:LEU:HD13	1:N:484:LEU:C	2.31	0.54
3:e:150:ILE:HB	3:e:161:ILE:HB	1.90	0.54
3:h:150:ILE:HB	3:h:161:ILE:HB	1.90	0.54
3:n:150:ILE:HB	3:n:161:ILE:HB	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:549:VAL:HG23	1:A:576:VAL:HG12	1.90	0.54
1:D:549:VAL:HG23	1:D:576:VAL:HG12	1.90	0.54
1:F:545:LEU:HA	1:F:580:ASN:HA	1.88	0.54
1:G:629:LEU:CD2	1:H:538:THR:HG22	2.38	0.54
1:H:545:LEU:HA	1:H:580:ASN:HA	1.88	0.54
1:J:111:VAL:HG12	1:J:125:THR:HB	1.90	0.54
1:J:496:VAL:HG21	1:J:587:PRO:HG3	1.90	0.54
2:a:124:ALA:HB3	2:a:125:PRO:HD3	1.87	0.54
1:D:199:SER:HA	1:E:324:ASP:CB	2.38	0.54
1:E:325:VAL:O	1:E:328:ASP:CG	2.51	0.54
1:G:45:ASN:CB	3:k:108:LEU:CD2	2.46	0.54
1:G:91:MET:HG3	1:G:92:ASN:H	1.72	0.54
1:H:353:GLN:HG2	1:H:579:ARG:HD3	1.90	0.54
1:I:161:ASN:ND2	1:J:223:MET:SD	2.80	0.54
1:L:496:VAL:HG21	1:L:587:PRO:HG3	1.90	0.54
1:O:549:VAL:HG23	1:O:576:VAL:HG12	1.90	0.54
3:i:150:ILE:HB	3:i:161:ILE:HB	1.90	0.54
1:A:95:VAL:HG12	1:A:96:LEU:N	2.21	0.54
1:A:142:LEU:HD22	1:A:155:VAL:HG21	1.89	0.54
1:C:91:MET:HG3	1:C:92:ASN:H	1.73	0.54
1:C:621:GLU:HG2	1:D:436:LEU:HD11	1.89	0.54
1:D:621:GLU:HG2	1:E:436:LEU:CD1	2.38	0.54
1:I:91:MET:HG3	1:I:92:ASN:H	1.72	0.54
1:I:142:LEU:HD22	1:I:155:VAL:HG21	1.89	0.54
1:M:621:GLU:HG2	1:N:436:LEU:CD1	2.38	0.54
1:N:325:VAL:O	1:N:328:ASP:CG	2.51	0.54
3:g:150:ILE:HB	3:g:161:ILE:HB	1.90	0.54
1:A:353:GLN:HG2	1:A:579:ARG:HD3	1.90	0.54
1:E:111:VAL:HG12	1:E:125:THR:HB	1.90	0.54
1:E:549:VAL:HG23	1:E:576:VAL:HG12	1.90	0.54
1:G:44:LYS:HZ1	3:k:128:SER:CB	2.21	0.54
1:I:200:ALA:N	1:J:324:ASP:OD2	2.36	0.54
1:K:111:VAL:HG12	1:K:125:THR:HB	1.90	0.54
1:L:596:TYR:OH	1:M:540:VAL:N	2.41	0.54
1:M:325:VAL:O	1:M:328:ASP:CG	2.51	0.54
1:N:353:GLN:HG2	1:N:579:ARG:HD3	1.90	0.54
1:N:496:VAL:HG21	1:N:587:PRO:HG3	1.90	0.54
2:U:76:ALA:HB1	2:U:130:LEU:HD12	1.88	0.54
3:l:150:ILE:HB	3:l:161:ILE:HB	1.90	0.54
3:o:150:ILE:HB	3:o:161:ILE:HB	1.90	0.54
1:D:111:VAL:HG12	1:D:125:THR:HB	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:200:ALA:N	1:G:324:ASP:OD2	2.38	0.53
1:F:325:VAL:O	1:F:328:ASP:CG	2.51	0.53
1:G:95:VAL:HG12	1:G:96:LEU:N	2.21	0.53
1:G:545:LEU:HA	1:G:580:ASN:HA	1.88	0.53
1:G:629:LEU:CD2	1:H:538:THR:CG2	2.86	0.53
1:H:596:TYR:OH	1:I:540:VAL:N	2.41	0.53
1:I:158:GLU:OE2	1:J:133:VAL:HG11	2.08	0.53
1:L:549:VAL:HG23	1:L:576:VAL:HG12	1.90	0.53
1:M:201:ALA:O	1:M:205:LYS:CB	2.55	0.53
1:M:549:VAL:HG23	1:M:576:VAL:HG12	1.90	0.53
1:N:549:VAL:HG23	1:N:576:VAL:HG12	1.90	0.53
1:B:628:LEU:HB3	1:C:538:THR:HG1	1.69	0.53
1:C:95:VAL:HG12	1:C:96:LEU:N	2.21	0.53
1:C:142:LEU:HD22	1:C:155:VAL:HG21	1.89	0.53
1:G:329:LEU:HA	1:G:332:VAL:HG22	1.90	0.53
1:G:353:GLN:HG2	1:G:579:ARG:HD3	1.90	0.53
1:I:95:VAL:HG12	1:I:96:LEU:N	2.21	0.53
1:L:111:VAL:HG12	1:L:125:THR:HB	1.90	0.53
2:S:76:ALA:HB1	2:S:130:LEU:HD12	1.88	0.53
2:c:76:ALA:HB1	2:c:130:LEU:HD12	1.88	0.53
1:B:91:MET:HG3	1:B:92:ASN:H	1.72	0.53
1:B:496:VAL:HG21	1:B:587:PRO:HG3	1.90	0.53
1:C:111:VAL:HG12	1:C:125:THR:HB	1.90	0.53
1:D:95:VAL:HG12	1:D:96:LEU:N	2.21	0.53
1:E:329:LEU:HA	1:E:332:VAL:HG22	1.90	0.53
1:E:437:ALA:HA	1:F:546:ASP:CG	2.34	0.53
1:F:44:LYS:HZ1	3:j:128:SER:CB	2.20	0.53
1:F:353:GLN:HG2	1:F:579:ARG:HD3	1.90	0.53
1:H:496:VAL:HG21	1:H:587:PRO:HG3	1.90	0.53
1:K:549:VAL:HG23	1:K:576:VAL:HG12	1.90	0.53
1:N:91:MET:HG3	1:N:92:ASN:H	1.72	0.53
1:O:95:VAL:HG12	1:O:96:LEU:N	2.21	0.53
2:Z:76:ALA:HB1	2:Z:130:LEU:HD12	1.88	0.53
1:A:496:VAL:HG21	1:A:587:PRO:HG3	1.90	0.53
1:B:95:VAL:HG12	1:B:96:LEU:N	2.21	0.53
1:B:199:SER:HA	1:C:324:ASP:CB	2.39	0.53
1:F:437:ALA:HA	1:G:546:ASP:CG	2.33	0.53
1:I:329:LEU:HA	1:I:332:VAL:HG22	1.90	0.53
1:J:549:VAL:HG23	1:J:576:VAL:HG12	1.90	0.53
1:M:199:SER:HA	1:N:324:ASP:CB	2.38	0.53
1:A:262:GLN:CB	1:B:331:ARG:NH2	2.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:629:LEU:HD23	1:B:538:THR:CG2	2.38	0.53
1:E:621:GLU:HG2	1:F:436:LEU:CD1	2.39	0.53
1:F:549:VAL:HG23	1:F:576:VAL:HG12	1.90	0.53
1:G:325:VAL:O	1:G:328:ASP:CG	2.51	0.53
1:G:549:VAL:HG23	1:G:576:VAL:HG12	1.90	0.53
1:I:199:SER:HA	1:J:324:ASP:CB	2.38	0.53
1:I:373:GLN:NE2	1:I:380:PRO:HB3	2.24	0.53
1:I:549:VAL:HG23	1:I:576:VAL:HG12	1.90	0.53
1:J:650:PHE:HZ	2:Y:80:VAL:HG13	1.74	0.53
1:M:596:TYR:OH	1:N:540:VAL:N	2.41	0.53
1:A:91:MET:HG3	1:A:92:ASN:H	1.72	0.53
1:B:650:PHE:HZ	2:R:80:VAL:HG13	1.74	0.53
1:C:329:LEU:HA	1:C:332:VAL:HG22	1.90	0.53
1:D:609:ASN:O	1:D:613:LYS:HB2	2.09	0.53
1:H:201:ALA:O	1:H:205:LYS:CB	2.55	0.53
1:H:325:VAL:O	1:H:328:ASP:CG	2.51	0.53
1:H:549:VAL:HG23	1:H:576:VAL:HG12	1.90	0.53
1:I:201:ALA:O	1:I:205:LYS:CB	2.55	0.53
1:I:325:VAL:O	1:I:328:ASP:CG	2.51	0.53
1:K:95:VAL:HG12	1:K:96:LEU:N	2.21	0.53
1:L:325:VAL:O	1:L:328:ASP:CG	2.51	0.53
1:M:95:VAL:HG12	1:M:96:LEU:N	2.21	0.53
3:f:150:ILE:HB	3:f:161:ILE:HB	1.90	0.53
3:p:150:ILE:HB	3:p:161:ILE:HB	1.90	0.53
1:A:436:LEU:CD1	1:O:621:GLU:HG2	2.39	0.53
1:B:40:ASN:O	1:B:44:LYS:HG3	2.09	0.53
1:B:111:VAL:HG12	1:B:125:THR:HB	1.90	0.53
1:B:373:GLN:NE2	1:B:380:PRO:HB3	2.24	0.53
1:B:596:TYR:OH	1:C:540:VAL:N	2.41	0.53
1:C:40:ASN:O	1:C:44:LYS:HG3	2.09	0.53
1:C:496:VAL:HG21	1:C:587:PRO:HG3	1.90	0.53
1:C:609:ASN:O	1:C:613:LYS:HB2	2.09	0.53
1:D:40:ASN:O	1:D:44:LYS:HG3	2.09	0.53
1:E:221:GLY:H	1:F:215:SER:HB3	1.72	0.53
1:G:621:GLU:HG2	1:H:436:LEU:HD11	1.89	0.53
1:J:353:GLN:HB2	1:J:433:ASN:HB2	1.91	0.53
1:K:353:GLN:HB2	1:K:433:ASN:HB2	1.91	0.53
1:K:629:LEU:HD23	1:L:538:THR:CG2	2.39	0.53
1:L:199:SER:HA	1:M:324:ASP:CB	2.39	0.53
1:L:201:ALA:O	1:L:205:LYS:CB	2.55	0.53
1:L:609:ASN:O	1:L:613:LYS:HB2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:111:VAL:HG12	1:M:125:THR:HB	1.90	0.53
1:M:353:GLN:HB2	1:M:433:ASN:HB2	1.91	0.53
1:N:45:ASN:CB	3:r:108:LEU:CD2	2.46	0.53
2:R:68:PRO:CG	2:R:130:LEU:HD21	2.39	0.53
3:j:150:ILE:HB	3:j:161:ILE:HB	1.90	0.53
1:C:353:GLN:HB2	1:C:433:ASN:HB2	1.91	0.53
1:D:91:MET:HG3	1:D:92:ASN:H	1.72	0.53
1:D:329:LEU:HA	1:D:332:VAL:HG22	1.90	0.53
1:D:353:GLN:HB2	1:D:433:ASN:HB2	1.91	0.53
1:E:373:GLN:NE2	1:E:380:PRO:HB3	2.24	0.53
1:F:329:LEU:HA	1:F:332:VAL:HG22	1.90	0.53
1:F:353:GLN:HB2	1:F:433:ASN:HB2	1.91	0.53
1:G:353:GLN:HB2	1:G:433:ASN:HB2	1.91	0.53
1:H:353:GLN:HB2	1:H:433:ASN:HB2	1.91	0.53
1:H:373:GLN:NE2	1:H:380:PRO:HB3	2.24	0.53
1:J:44:LYS:HZ1	3:n:128:SER:CB	2.20	0.53
1:J:325:VAL:O	1:J:328:ASP:CG	2.51	0.53
1:K:609:ASN:O	1:K:613:LYS:HB2	2.09	0.53
1:L:40:ASN:O	1:L:44:LYS:HG3	2.09	0.53
1:N:111:VAL:HG12	1:N:125:THR:HB	1.90	0.53
1:N:373:GLN:NE2	1:N:380:PRO:HB3	2.24	0.53
1:O:40:ASN:O	1:O:44:LYS:HG3	2.09	0.53
2:Y:68:PRO:CG	2:Y:130:LEU:HD21	2.39	0.53
3:k:150:ILE:HB	3:k:161:ILE:HB	1.90	0.53
1:A:40:ASN:O	1:A:44:LYS:HG3	2.09	0.53
1:B:477:ARG:HH11	1:C:459:VAL:HB	1.68	0.53
1:B:609:ASN:O	1:B:613:LYS:HB2	2.09	0.53
1:D:496:VAL:HG21	1:D:587:PRO:HG3	1.90	0.53
1:E:629:LEU:HD23	1:F:538:THR:CG2	2.39	0.53
1:F:629:LEU:HD23	1:G:538:THR:CG2	2.39	0.53
1:G:201:ALA:O	1:G:205:LYS:CB	2.55	0.53
1:H:199:SER:HA	1:I:324:ASP:CB	2.39	0.53
1:I:353:GLN:HG2	1:I:579:ARG:HD3	1.90	0.53
1:J:259:GLN:HE21	1:K:331:ARG:NH1	2.07	0.53
1:K:496:VAL:HG21	1:K:587:PRO:HG3	1.90	0.53
1:L:322:ALA:O	1:L:326:MET:HG3	2.09	0.53
1:L:650:PHE:HZ	2:a:80:VAL:HG13	1.74	0.53
1:M:353:GLN:HG2	1:M:579:ARG:HD3	1.90	0.53
1:M:629:LEU:CD2	1:N:538:THR:CG2	2.86	0.53
1:N:353:GLN:HB2	1:N:433:ASN:HB2	1.91	0.53
1:O:111:VAL:HG12	1:O:125:THR:HB	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Z:68:PRO:CG	2:Z:130:LEU:HD21	2.39	0.53
1:A:111:VAL:HG12	1:A:125:THR:HB	1.90	0.53
1:B:142:LEU:HD22	1:B:155:VAL:HG21	1.89	0.53
1:D:353:GLN:HG2	1:D:579:ARG:HD3	1.90	0.53
1:E:95:VAL:HG12	1:E:96:LEU:N	2.21	0.53
1:G:650:PHE:HZ	2:V:80:VAL:HG13	1.74	0.53
1:I:437:ALA:HA	1:J:546:ASP:CG	2.33	0.53
1:J:373:GLN:NE2	1:J:380:PRO:HB3	2.24	0.53
1:K:44:LYS:HZ1	3:o:128:SER:CB	2.21	0.53
1:K:353:GLN:HG2	1:K:579:ARG:HD3	1.90	0.53
1:K:621:GLU:HG2	1:L:436:LEU:CD1	2.39	0.53
1:M:373:GLN:NE2	1:M:380:PRO:HB3	2.24	0.53
1:N:259:GLN:HE21	1:O:331:ARG:NH1	2.07	0.53
2:R:76:ALA:HB1	2:R:130:LEU:HD12	1.88	0.53
1:A:353:GLN:HB2	1:A:433:ASN:HB2	1.91	0.52
1:E:40:ASN:O	1:E:44:LYS:HG3	2.09	0.52
1:E:353:GLN:HB2	1:E:433:ASN:HB2	1.91	0.52
1:E:496:VAL:HG21	1:E:587:PRO:HG3	1.90	0.52
1:H:322:ALA:O	1:H:326:MET:HG3	2.09	0.52
1:H:329:LEU:HA	1:H:332:VAL:HG22	1.91	0.52
1:I:353:GLN:HB2	1:I:433:ASN:HB2	1.91	0.52
1:I:477:ARG:HH11	1:J:459:VAL:HB	1.65	0.52
1:L:353:GLN:HB2	1:L:433:ASN:HB2	1.91	0.52
1:L:629:LEU:HD23	1:M:538:THR:CG2	2.40	0.52
1:M:221:GLY:H	1:N:215:SER:HB3	1.73	0.52
1:N:95:VAL:HG12	1:N:96:LEU:N	2.21	0.52
1:O:44:LYS:HZ1	3:s:128:SER:CB	2.22	0.52
2:S:68:PRO:CG	2:S:130:LEU:HD21	2.39	0.52
1:B:322:ALA:O	1:B:326:MET:HG3	2.09	0.52
1:C:373:GLN:NE2	1:C:380:PRO:HB3	2.24	0.52
1:C:629:LEU:CD2	1:D:538:THR:CG2	2.88	0.52
1:D:322:ALA:O	1:D:326:MET:HG3	2.09	0.52
1:F:496:VAL:HG21	1:F:587:PRO:HG3	1.90	0.52
1:F:628:LEU:HB3	1:G:538:THR:HG1	1.68	0.52
1:K:40:ASN:O	1:K:44:LYS:HG3	2.09	0.52
1:K:322:ALA:O	1:K:326:MET:HG3	2.09	0.52
1:K:325:VAL:O	1:K:328:ASP:CG	2.51	0.52
1:L:373:GLN:NE2	1:L:380:PRO:HB3	2.24	0.52
1:O:496:VAL:HG21	1:O:587:PRO:HG3	1.90	0.52
2:X:68:PRO:CG	2:X:130:LEU:HD21	2.39	0.52
1:B:353:GLN:HB2	1:B:433:ASN:HB2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:437:ALA:HA	1:D:546:ASP:CG	2.33	0.52
1:E:609:ASN:O	1:E:613:LYS:HB2	2.09	0.52
1:G:609:ASN:O	1:G:613:LYS:HB2	2.09	0.52
1:H:609:ASN:O	1:H:613:LYS:HB2	2.09	0.52
1:J:517:ASP:CG	1:J:518:LEU:N	2.67	0.52
1:K:596:TYR:OH	1:L:540:VAL:N	2.42	0.52
1:M:609:ASN:O	1:M:613:LYS:HB2	2.09	0.52
1:N:40:ASN:O	1:N:44:LYS:HG3	2.09	0.52
1:O:353:GLN:HG2	1:O:579:ARG:HD3	1.90	0.52
3:q:150:ILE:HB	3:q:161:ILE:HB	1.90	0.52
3:s:150:ILE:HB	3:s:161:ILE:HB	1.90	0.52
1:A:133:VAL:HG11	1:O:158:GLU:OE2	2.10	0.52
1:A:329:LEU:HA	1:A:332:VAL:HG22	1.91	0.52
1:A:373:GLN:NE2	1:A:380:PRO:HB3	2.24	0.52
1:A:540:VAL:N	1:O:596:TYR:OH	2.43	0.52
1:B:353:GLN:HG2	1:B:579:ARG:HD3	1.90	0.52
1:B:358:LEU:HD13	1:B:359:ASN:N	2.25	0.52
1:C:358:LEU:HD13	1:C:359:ASN:N	2.25	0.52
1:D:358:LEU:HD13	1:D:359:ASN:N	2.25	0.52
1:D:373:GLN:NE2	1:D:380:PRO:HB3	2.24	0.52
1:E:322:ALA:O	1:E:326:MET:HG3	2.09	0.52
1:E:358:LEU:HD13	1:E:359:ASN:N	2.25	0.52
1:F:322:ALA:O	1:F:326:MET:HG3	2.09	0.52
1:F:358:LEU:HD13	1:F:359:ASN:N	2.25	0.52
1:G:517:ASP:CG	1:G:518:LEU:N	2.67	0.52
1:H:437:ALA:HA	1:I:546:ASP:CG	2.35	0.52
1:I:358:LEU:HD13	1:I:359:ASN:N	2.25	0.52
1:J:329:LEU:HA	1:J:332:VAL:HG22	1.90	0.52
1:K:201:ALA:O	1:K:205:LYS:CB	2.55	0.52
1:N:65:TYR:CZ	3:q:113:PRO:HG3	2.44	0.52
1:A:44:LYS:HZ1	3:f:128:SER:CB	2.23	0.52
1:A:609:ASN:O	1:A:613:LYS:HB2	2.09	0.52
1:B:356:ASP:OD1	1:B:357:GLY:N	2.43	0.52
1:C:322:ALA:O	1:C:326:MET:HG3	2.09	0.52
1:F:40:ASN:O	1:F:44:LYS:HG3	2.09	0.52
1:F:356:ASP:OD1	1:F:357:GLY:N	2.43	0.52
1:G:322:ALA:O	1:G:326:MET:HG3	2.09	0.52
1:G:358:LEU:HD13	1:G:359:ASN:N	2.25	0.52
1:H:40:ASN:O	1:H:44:LYS:HG3	2.09	0.52
1:K:329:LEU:HA	1:K:332:VAL:HG22	1.90	0.52
1:M:629:LEU:CD2	1:N:538:THR:HG22	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:650:PHE:HZ	2:c:80:VAL:HG13	1.74	0.52
1:O:322:ALA:O	1:O:326:MET:HG3	2.09	0.52
1:O:373:GLN:NE2	1:O:380:PRO:HB3	2.24	0.52
1:A:322:ALA:O	1:A:326:MET:HG3	2.09	0.52
1:C:340:ARG:NE	1:C:340:ARG:HA	2.25	0.52
1:C:356:ASP:OD1	1:C:357:GLY:N	2.43	0.52
1:D:437:ALA:HA	1:E:546:ASP:CG	2.34	0.52
1:F:228:VAL:HG22	1:G:210:LEU:HD13	1.90	0.52
1:F:373:GLN:NE2	1:F:380:PRO:HB3	2.24	0.52
1:G:496:VAL:HG21	1:G:587:PRO:HG3	1.90	0.52
1:H:358:LEU:HD13	1:H:359:ASN:N	2.25	0.52
1:I:322:ALA:O	1:I:326:MET:HG3	2.09	0.52
1:I:621:GLU:HG2	1:J:436:LEU:HD11	1.91	0.52
1:J:629:LEU:CD2	1:K:538:THR:CG2	2.88	0.52
1:K:358:LEU:HD13	1:K:359:ASN:N	2.25	0.52
1:M:40:ASN:O	1:M:44:LYS:HG3	2.09	0.52
1:M:322:ALA:O	1:M:326:MET:HG3	2.09	0.52
1:N:477:ARG:HH11	1:O:459:VAL:HB	1.66	0.52
1:O:353:GLN:HB2	1:O:433:ASN:HB2	1.91	0.52
1:O:358:LEU:HD13	1:O:359:ASN:N	2.25	0.52
2:a:68:PRO:CG	2:a:130:LEU:HD21	2.39	0.52
1:A:324:ASP:CB	1:O:199:SER:HA	2.40	0.52
1:B:329:LEU:HA	1:B:332:VAL:HG22	1.90	0.52
1:C:629:LEU:CD2	1:D:538:THR:HG22	2.39	0.52
1:D:340:ARG:NE	1:D:340:ARG:HA	2.25	0.52
1:F:95:VAL:HG12	1:F:96:LEU:N	2.21	0.52
1:G:373:GLN:NE2	1:G:380:PRO:HB3	2.24	0.52
1:J:609:ASN:O	1:J:613:LYS:HB2	2.09	0.52
1:M:262:GLN:N	1:N:331:ARG:HH22	2.04	0.52
1:N:329:LEU:HA	1:N:332:VAL:HG22	1.90	0.52
1:O:386:ALA:O	1:O:401:LEU:HD11	2.10	0.52
1:A:358:LEU:HD13	1:A:359:ASN:N	2.25	0.52
1:D:386:ALA:O	1:D:401:LEU:HD11	2.10	0.52
1:G:386:ALA:O	1:G:401:LEU:HD11	2.10	0.52
1:I:340:ARG:NE	1:I:340:ARG:HA	2.25	0.52
1:I:386:ALA:O	1:I:401:LEU:HD11	2.10	0.52
1:N:356:ASP:OD1	1:N:357:GLY:N	2.43	0.52
1:N:437:ALA:HA	1:O:546:ASP:CG	2.35	0.52
1:N:609:ASN:O	1:N:613:LYS:HB2	2.09	0.52
1:O:329:LEU:HA	1:O:332:VAL:HG22	1.90	0.52
2:Q:68:PRO:CG	2:Q:130:LEU:HD21	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:c:68:PRO:CG	2:c:130:LEU:HD21	2.39	0.52
3:r:150:ILE:HB	3:r:161:ILE:HB	1.90	0.52
1:B:340:ARG:NE	1:B:340:ARG:HA	2.25	0.52
1:E:340:ARG:NE	1:E:340:ARG:HA	2.25	0.52
1:E:356:ASP:OD1	1:E:357:GLY:N	2.43	0.52
1:G:40:ASN:O	1:G:44:LYS:HG3	2.09	0.52
1:G:356:ASP:OD1	1:G:357:GLY:N	2.43	0.52
1:J:201:ALA:O	1:J:205:LYS:CB	2.55	0.52
1:L:329:LEU:HA	1:L:332:VAL:HG22	1.90	0.52
1:M:157:TYR:O	1:M:157:TYR:CD1	2.63	0.52
1:M:358:LEU:HD13	1:M:359:ASN:N	2.25	0.52
1:O:157:TYR:O	1:O:157:TYR:CD1	2.63	0.52
1:E:386:ALA:O	1:E:401:LEU:HD11	2.10	0.52
1:F:201:ALA:O	1:F:205:LYS:CB	2.55	0.52
1:F:609:ASN:O	1:F:613:LYS:HB2	2.09	0.52
1:H:629:LEU:HD23	1:I:538:THR:CG2	2.40	0.52
1:J:322:ALA:O	1:J:326:MET:HG3	2.09	0.52
1:K:373:GLN:NE2	1:K:380:PRO:HB3	2.24	0.52
1:N:322:ALA:O	1:N:326:MET:HG3	2.09	0.52
1:A:538:THR:CG2	1:O:629:LEU:HD23	2.40	0.51
1:B:437:ALA:HA	1:C:546:ASP:CG	2.35	0.51
1:C:157:TYR:CD1	1:C:157:TYR:O	2.63	0.51
1:C:386:ALA:O	1:C:401:LEU:HD11	2.10	0.51
1:D:356:ASP:OD1	1:D:357:GLY:N	2.43	0.51
1:D:650:PHE:HZ	2:S:80:VAL:HG13	1.74	0.51
1:I:40:ASN:O	1:I:44:LYS:HG3	2.09	0.51
1:I:356:ASP:OD1	1:I:357:GLY:N	2.43	0.51
1:J:356:ASP:OD1	1:J:357:GLY:N	2.43	0.51
1:K:386:ALA:O	1:K:401:LEU:HD11	2.10	0.51
1:L:157:TYR:O	1:L:157:TYR:CD1	2.63	0.51
1:L:259:GLN:NE2	1:L:262:GLN:HB2	2.26	0.51
1:M:158:GLU:OE2	1:N:133:VAL:HG11	2.11	0.51
1:M:329:LEU:HA	1:M:332:VAL:HG22	1.90	0.51
1:M:356:ASP:OD1	1:M:357:GLY:N	2.43	0.51
1:M:391:TYR:CE1	1:M:396:THR:HA	2.45	0.51
1:M:621:GLU:HG2	1:N:436:LEU:HD11	1.92	0.51
1:N:386:ALA:O	1:N:401:LEU:HD11	2.10	0.51
1:O:609:ASN:O	1:O:613:LYS:HB2	2.09	0.51
1:A:157:TYR:CD1	1:A:157:TYR:O	2.63	0.51
1:A:356:ASP:OD1	1:A:357:GLY:N	2.43	0.51
1:B:44:LYS:HZ1	3:g:128:SER:CB	2.23	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:157:TYR:O	1:D:157:TYR:CD1	2.63	0.51
1:E:157:TYR:O	1:E:157:TYR:CD1	2.63	0.51
1:I:391:TYR:CE1	1:I:396:THR:HA	2.45	0.51
1:J:166:THR:HG23	1:J:167:GLY:H	1.75	0.51
1:J:476:GLU:CG	1:J:477:ARG:H	2.24	0.51
1:L:166:THR:HG23	1:L:167:GLY:H	1.75	0.51
1:L:621:GLU:HG2	1:M:436:LEU:CD1	2.39	0.51
1:O:356:ASP:OD1	1:O:357:GLY:N	2.43	0.51
2:U:68:PRO:CG	2:U:130:LEU:HD21	2.39	0.51
2:V:68:PRO:CG	2:V:130:LEU:HD21	2.39	0.51
2:W:68:PRO:CG	2:W:130:LEU:HD21	2.39	0.51
1:A:340:ARG:NE	1:A:340:ARG:HA	2.25	0.51
1:A:386:ALA:O	1:A:401:LEU:HD11	2.10	0.51
1:C:259:GLN:NE2	1:C:262:GLN:HB2	2.26	0.51
1:D:166:THR:HG23	1:D:167:GLY:H	1.75	0.51
1:E:259:GLN:NE2	1:E:262:GLN:HB2	2.26	0.51
1:F:157:TYR:CD1	1:F:157:TYR:O	2.63	0.51
1:F:259:GLN:NE2	1:F:262:GLN:HB2	2.26	0.51
1:G:476:GLU:CG	1:G:477:ARG:H	2.24	0.51
1:H:503:GLU:HA	1:H:525:ARG:O	2.11	0.51
1:I:609:ASN:O	1:I:613:LYS:HB2	2.09	0.51
1:I:650:PHE:HZ	2:X:80:VAL:HG13	1.74	0.51
1:J:157:TYR:O	1:J:157:TYR:CD1	2.63	0.51
1:J:358:LEU:HD13	1:J:359:ASN:N	2.25	0.51
1:J:391:TYR:CE1	1:J:396:THR:HA	2.45	0.51
1:K:206:LEU:HD23	1:K:206:LEU:O	2.11	0.51
1:M:476:GLU:CG	1:M:477:ARG:H	2.24	0.51
1:M:517:ASP:CG	1:M:518:LEU:N	2.67	0.51
1:B:158:GLU:OE2	1:C:133:VAL:HG11	2.10	0.51
1:B:391:TYR:CE1	1:B:396:THR:HA	2.46	0.51
1:D:608:ASN:OD1	1:D:612:THR:HG23	2.11	0.51
1:E:71:GLU:O	1:E:75:GLN:HG2	2.11	0.51
1:E:476:GLU:CG	1:E:477:ARG:H	2.24	0.51
1:G:503:GLU:HA	1:G:525:ARG:O	2.11	0.51
1:H:608:ASN:OD1	1:H:612:THR:HG23	2.11	0.51
1:I:259:GLN:NE2	1:I:262:GLN:HB2	2.26	0.51
1:I:503:GLU:HA	1:I:525:ARG:O	2.11	0.51
1:J:40:ASN:O	1:J:44:LYS:HG3	2.09	0.51
1:J:386:ALA:O	1:J:401:LEU:HD11	2.10	0.51
1:K:200:ALA:N	1:L:324:ASP:OD2	2.38	0.51
1:K:391:TYR:CE1	1:K:396:THR:HA	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:386:ALA:O	1:L:401:LEU:HD11	2.10	0.51
1:L:437:ALA:HA	1:M:546:ASP:CG	2.35	0.51
1:M:166:THR:HG23	1:M:167:GLY:H	1.75	0.51
1:O:391:TYR:CE1	1:O:396:THR:HA	2.45	0.51
1:A:262:GLN:N	1:B:331:ARG:HH22	2.03	0.51
1:B:259:GLN:NE2	1:B:262:GLN:HB2	2.26	0.51
1:C:158:GLU:OE2	1:D:133:VAL:HG11	2.11	0.51
1:D:517:ASP:CG	1:D:518:LEU:N	2.67	0.51
1:E:166:THR:HG23	1:E:167:GLY:H	1.75	0.51
1:E:608:ASN:OD1	1:E:612:THR:HG23	2.11	0.51
1:H:206:LEU:HD23	1:H:206:LEU:O	2.11	0.51
1:I:166:THR:HG23	1:I:167:GLY:H	1.75	0.51
1:J:71:GLU:O	1:J:75:GLN:HG2	2.11	0.51
1:K:199:SER:HA	1:L:324:ASP:CB	2.40	0.51
1:L:340:ARG:NE	1:L:340:ARG:HA	2.25	0.51
1:M:340:ARG:NE	1:M:340:ARG:HA	2.25	0.51
1:N:391:TYR:CE1	1:N:396:THR:HA	2.45	0.51
1:O:259:GLN:NE2	1:O:262:GLN:HB2	2.26	0.51
1:O:476:GLU:CG	1:O:477:ARG:H	2.24	0.51
1:O:503:GLU:HA	1:O:525:ARG:O	2.11	0.51
2:T:68:PRO:CG	2:T:130:LEU:HD21	2.39	0.51
1:A:206:LEU:O	1:A:206:LEU:HD23	2.11	0.51
1:A:391:TYR:CE1	1:A:396:THR:HA	2.46	0.51
1:C:71:GLU:O	1:C:75:GLN:HG2	2.11	0.51
1:C:517:ASP:CG	1:C:518:LEU:N	2.67	0.51
1:E:206:LEU:HD23	1:E:206:LEU:O	2.11	0.51
1:G:157:TYR:O	1:G:157:TYR:CD1	2.63	0.51
1:I:157:TYR:CD1	1:I:157:TYR:O	2.63	0.51
1:I:527:VAL:HG21	1:I:583:LEU:CD1	2.41	0.51
1:I:629:LEU:CD2	1:J:538:THR:HG22	2.40	0.51
1:L:391:TYR:CE1	1:L:396:THR:HA	2.45	0.51
1:M:206:LEU:HD23	1:M:206:LEU:O	2.11	0.51
1:M:386:ALA:O	1:M:401:LEU:HD11	2.10	0.51
1:N:44:LYS:HZ1	3:r:128:SER:CB	2.23	0.51
1:B:157:TYR:O	1:B:157:TYR:CD1	2.63	0.51
1:B:476:GLU:CG	1:B:477:ARG:H	2.24	0.51
1:B:629:LEU:CD2	1:C:538:THR:HG22	2.41	0.51
1:F:166:THR:HG23	1:F:167:GLY:H	1.75	0.51
1:F:199:SER:HA	1:G:324:ASP:CB	2.40	0.51
1:G:259:GLN:NE2	1:G:262:GLN:HB2	2.26	0.51
1:H:71:GLU:O	1:H:75:GLN:HG2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:476:GLU:CG	1:H:477:ARG:H	2.24	0.51
1:H:527:VAL:HG21	1:H:583:LEU:CD1	2.41	0.51
1:K:166:THR:HG23	1:K:167:GLY:H	1.75	0.51
1:K:356:ASP:OD1	1:K:357:GLY:N	2.43	0.51
1:K:437:ALA:HA	1:L:546:ASP:CG	2.36	0.51
1:N:206:LEU:O	1:N:206:LEU:HD23	2.11	0.51
1:N:358:LEU:HD13	1:N:359:ASN:N	2.25	0.51
1:N:503:GLU:HA	1:N:525:ARG:O	2.11	0.51
2:P:68:PRO:CG	2:P:130:LEU:HD21	2.39	0.51
2:R:119:PHE:O	2:R:122:GLN:N	2.43	0.51
2:b:68:PRO:CG	2:b:130:LEU:HD21	2.39	0.51
1:A:608:ASN:OD1	1:A:612:THR:HG23	2.11	0.51
1:A:621:GLU:HG2	1:B:436:LEU:CD1	2.41	0.51
1:D:206:LEU:O	1:D:206:LEU:HD23	2.11	0.51
1:D:259:GLN:NE2	1:D:262:GLN:HB2	2.26	0.51
1:E:391:TYR:CE1	1:E:396:THR:HA	2.45	0.51
1:F:95:VAL:CG1	1:F:96:LEU:H	2.23	0.51
1:F:503:GLU:HA	1:F:525:ARG:O	2.11	0.51
1:G:527:VAL:HG21	1:G:583:LEU:CD1	2.41	0.51
1:G:608:ASN:OD1	1:G:612:THR:HG23	2.11	0.51
1:H:386:ALA:O	1:H:401:LEU:HD11	2.10	0.51
1:I:608:ASN:OD1	1:I:612:THR:HG23	2.11	0.51
1:J:267:VAL:HB	1:K:335:GLN:OE1	2.11	0.51
1:K:103:ASP:OD2	1:K:105:LYS:CG	2.56	0.51
1:K:157:TYR:CD1	1:K:157:TYR:O	2.63	0.51
1:L:71:GLU:O	1:L:75:GLN:HG2	2.11	0.51
1:L:103:ASP:OD2	1:L:105:LYS:CG	2.56	0.51
1:O:166:THR:HG23	1:O:167:GLY:H	1.75	0.51
1:O:373:GLN:HE21	1:O:380:PRO:HB3	1.76	0.51
1:A:71:GLU:O	1:A:75:GLN:HG2	2.11	0.51
1:A:503:GLU:HA	1:A:525:ARG:O	2.11	0.51
1:A:650:PHE:HZ	2:Q:80:VAL:HG13	1.74	0.51
1:B:621:GLU:HG2	1:C:436:LEU:HD11	1.92	0.51
1:C:166:THR:HG23	1:C:167:GLY:H	1.75	0.51
1:C:391:TYR:CE1	1:C:396:THR:HA	2.45	0.51
1:D:476:GLU:CG	1:D:477:ARG:H	2.24	0.51
1:F:340:ARG:NE	1:F:340:ARG:HA	2.25	0.51
1:H:259:GLN:NE2	1:H:262:GLN:HB2	2.26	0.51
1:H:259:GLN:HE21	1:I:331:ARG:NH1	2.09	0.51
1:H:391:TYR:CE1	1:H:396:THR:HA	2.46	0.51
1:J:206:LEU:O	1:J:206:LEU:HD23	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:259:GLN:NE2	1:J:262:GLN:HB2	2.26	0.51
1:J:527:VAL:HG21	1:J:583:LEU:CD1	2.41	0.51
1:K:259:GLN:NE2	1:K:262:GLN:HB2	2.26	0.51
1:M:71:GLU:O	1:M:75:GLN:HG2	2.11	0.51
1:M:389:ASN:O	1:M:393:LYS:HB2	2.11	0.51
1:M:643:VAL:HG21	2:b:105:LEU:CD2	2.41	0.51
1:N:259:GLN:NE2	1:N:262:GLN:HB2	2.26	0.51
1:N:373:GLN:HE21	1:N:380:PRO:HB3	1.76	0.51
1:O:340:ARG:NE	1:O:340:ARG:HA	2.25	0.51
1:O:517:ASP:CG	1:O:518:LEU:N	2.67	0.51
1:O:561:ASP:OD1	1:O:562:ILE:HD12	2.11	0.51
1:B:629:LEU:CD2	1:C:538:THR:CG2	2.89	0.51
1:C:223:MET:HA	1:C:241:GLU:CD	2.36	0.51
1:C:476:GLU:CG	1:C:477:ARG:H	2.24	0.51
1:E:223:MET:HA	1:E:241:GLU:CD	2.36	0.51
1:E:232:ARG:NH2	1:F:259:GLN:HB3	2.26	0.51
1:E:389:ASN:O	1:E:393:LYS:HB2	2.11	0.51
1:F:527:VAL:HG21	1:F:583:LEU:CD1	2.41	0.51
1:H:157:TYR:O	1:H:157:TYR:CD1	2.63	0.51
1:H:223:MET:HA	1:H:241:GLU:CD	2.37	0.51
1:H:340:ARG:NE	1:H:340:ARG:HA	2.25	0.51
1:H:356:ASP:OD1	1:H:357:GLY:N	2.43	0.51
1:H:561:ASP:OD1	1:H:562:ILE:HD12	2.11	0.51
1:J:103:ASP:OD2	1:J:105:LYS:CG	2.56	0.51
1:J:340:ARG:NE	1:J:340:ARG:HA	2.25	0.51
1:J:503:GLU:HA	1:J:525:ARG:O	2.11	0.51
1:J:561:ASP:OD1	1:J:562:ILE:HD12	2.11	0.51
1:K:527:VAL:HG21	1:K:583:LEU:CD1	2.41	0.51
1:M:259:GLN:NE2	1:M:262:GLN:HB2	2.26	0.51
1:M:561:ASP:OD1	1:M:562:ILE:HD12	2.11	0.51
1:N:621:GLU:HG2	1:O:436:LEU:HD11	1.93	0.51
1:O:608:ASN:OD1	1:O:612:THR:HG23	2.11	0.51
2:d:68:PRO:CG	2:d:130:LEU:HD21	2.39	0.51
1:B:206:LEU:HD23	1:B:206:LEU:O	2.11	0.50
1:E:373:GLN:HE21	1:E:380:PRO:HB3	1.76	0.50
1:F:386:ALA:O	1:F:401:LEU:HD11	2.10	0.50
1:G:71:GLU:O	1:G:75:GLN:HG2	2.11	0.50
1:K:223:MET:HA	1:K:241:GLU:CD	2.37	0.50
1:K:476:GLU:CG	1:K:477:ARG:H	2.24	0.50
1:L:389:ASN:O	1:L:393:LYS:HB2	2.11	0.50
1:M:47:ASN:OD1	1:N:65:TYR:CD2	2.64	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:71:GLU:O	1:N:75:GLN:HG2	2.11	0.50
1:N:340:ARG:NE	1:N:340:ARG:HA	2.25	0.50
1:N:389:ASN:O	1:N:393:LYS:HB2	2.11	0.50
1:O:71:GLU:O	1:O:75:GLN:HG2	2.11	0.50
2:X:76:ALA:HB1	2:X:130:LEU:HD12	1.88	0.50
1:A:373:GLN:HE21	1:A:380:PRO:HB3	1.76	0.50
1:A:533:VAL:HG12	1:A:534:GLY:O	2.12	0.50
1:B:561:ASP:OD1	1:B:562:ILE:HD12	2.11	0.50
1:C:389:ASN:O	1:C:393:LYS:HB2	2.11	0.50
1:D:373:GLN:HE21	1:D:380:PRO:HB3	1.76	0.50
1:D:643:VAL:HG21	2:S:105:LEU:CD2	2.41	0.50
1:E:503:GLU:HA	1:E:525:ARG:O	2.11	0.50
1:E:527:VAL:HG21	1:E:583:LEU:CD1	2.41	0.50
1:F:206:LEU:O	1:F:206:LEU:HD23	2.11	0.50
1:F:596:TYR:OH	1:G:540:VAL:N	2.43	0.50
1:G:166:THR:HG23	1:G:167:GLY:H	1.75	0.50
1:G:389:ASN:O	1:G:393:LYS:HB2	2.11	0.50
1:I:206:LEU:O	1:I:206:LEU:HD23	2.11	0.50
1:I:373:GLN:HE21	1:I:380:PRO:HB3	1.76	0.50
1:I:492:GLU:HG3	1:I:493:GLY:N	2.27	0.50
1:I:600:SER:OG	1:J:540:VAL:HG12	2.11	0.50
1:I:629:LEU:CD2	1:J:538:THR:CG2	2.90	0.50
1:J:492:GLU:HG3	1:J:493:GLY:N	2.27	0.50
1:L:88:VAL:HG12	1:L:98:VAL:HA	1.94	0.50
1:L:643:VAL:HG21	2:a:105:LEU:CD2	2.41	0.50
1:M:503:GLU:HA	1:M:525:ARG:O	2.11	0.50
1:N:157:TYR:CD1	1:N:157:TYR:O	2.63	0.50
1:N:223:MET:HA	1:N:241:GLU:CD	2.36	0.50
1:O:533:VAL:HG12	1:O:534:GLY:O	2.12	0.50
1:A:492:GLU:HG3	1:A:493:GLY:N	2.27	0.50
1:B:386:ALA:O	1:B:401:LEU:HD11	2.10	0.50
1:B:608:ASN:OD1	1:B:612:THR:HG23	2.11	0.50
1:C:643:VAL:HG21	2:P:105:LEU:CD2	2.41	0.50
1:F:373:GLN:HE21	1:F:380:PRO:HB3	1.76	0.50
1:G:88:VAL:HG12	1:G:98:VAL:HA	1.94	0.50
1:H:65:TYR:CZ	3:k:113:PRO:HG3	2.46	0.50
1:H:88:VAL:HG12	1:H:98:VAL:HA	1.94	0.50
1:H:373:GLN:HE21	1:H:380:PRO:HB3	1.76	0.50
1:I:44:LYS:HZ1	3:m:128:SER:CB	2.24	0.50
1:I:190:VAL:HG22	1:I:239:SER:OG	2.12	0.50
1:K:492:GLU:HG3	1:K:493:GLY:N	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:611:GLN:HE22	1:K:612:THR:HG23	1.67	0.50
1:L:356:ASP:OD1	1:L:357:GLY:N	2.43	0.50
1:L:358:LEU:HD13	1:L:359:ASN:N	2.25	0.50
1:L:527:VAL:HG21	1:L:583:LEU:CD1	2.41	0.50
1:M:88:VAL:HG12	1:M:98:VAL:HA	1.94	0.50
1:M:103:ASP:OD2	1:M:105:LYS:CG	2.56	0.50
1:O:223:MET:HA	1:O:241:GLU:CD	2.37	0.50
1:A:166:THR:HG23	1:A:167:GLY:H	1.75	0.50
1:A:476:GLU:CG	1:A:477:ARG:H	2.24	0.50
1:B:223:MET:HA	1:B:241:GLU:CD	2.37	0.50
1:C:44:LYS:HZ1	3:e:128:SER:CB	2.24	0.50
1:C:206:LEU:HD23	1:C:206:LEU:O	2.11	0.50
1:C:492:GLU:HG3	1:C:493:GLY:N	2.27	0.50
1:C:545:LEU:HD12	1:C:545:LEU:O	2.12	0.50
1:C:608:ASN:OD1	1:C:612:THR:HG23	2.11	0.50
1:F:71:GLU:O	1:F:75:GLN:HG2	2.11	0.50
1:F:88:VAL:HG12	1:F:98:VAL:HA	1.94	0.50
1:F:561:ASP:OD1	1:F:562:ILE:HD12	2.11	0.50
1:G:206:LEU:O	1:G:206:LEU:HD23	2.11	0.50
1:G:391:TYR:CE1	1:G:396:THR:HA	2.46	0.50
1:H:190:VAL:HG22	1:H:239:SER:OG	2.12	0.50
1:H:389:ASN:O	1:H:393:LYS:HB2	2.11	0.50
1:I:88:VAL:HG12	1:I:98:VAL:HA	1.94	0.50
1:I:389:ASN:O	1:I:393:LYS:HB2	2.11	0.50
1:J:226:ASN:ND2	1:K:210:LEU:O	2.38	0.50
1:K:71:GLU:O	1:K:75:GLN:HG2	2.11	0.50
1:K:88:VAL:HG12	1:K:98:VAL:HA	1.94	0.50
1:K:373:GLN:HE21	1:K:380:PRO:HB3	1.76	0.50
1:K:503:GLU:HA	1:K:525:ARG:O	2.11	0.50
1:M:226:ASN:ND2	1:N:210:LEU:O	2.38	0.50
1:N:88:VAL:HG12	1:N:98:VAL:HA	1.94	0.50
1:N:492:GLU:HG3	1:N:493:GLY:N	2.27	0.50
1:N:608:ASN:OD1	1:N:612:THR:HG23	2.11	0.50
2:T:54:GLY:HA3	2:T:123:LEU:HD11	1.93	0.50
1:A:259:GLN:NE2	1:A:262:GLN:HB2	2.26	0.50
1:D:259:GLN:HE21	1:E:331:ARG:NH1	2.10	0.50
1:D:527:VAL:HG21	1:D:583:LEU:CD1	2.41	0.50
1:D:561:ASP:OD1	1:D:562:ILE:HD12	2.11	0.50
1:E:158:GLU:OE2	1:F:133:VAL:HG11	2.12	0.50
1:E:190:VAL:HG22	1:E:239:SER:OG	2.12	0.50
1:E:561:ASP:OD1	1:E:562:ILE:HD12	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:223:MET:HA	1:F:241:GLU:CD	2.37	0.50
1:G:484:LEU:HD23	1:G:502:GLN:HB3	1.94	0.50
1:G:545:LEU:HD12	1:G:545:LEU:O	2.12	0.50
1:H:95:VAL:CG1	1:H:96:LEU:H	2.23	0.50
1:H:492:GLU:HG3	1:H:493:GLY:N	2.27	0.50
1:I:103:ASP:OD2	1:I:105:LYS:CG	2.56	0.50
1:K:340:ARG:NE	1:K:340:ARG:HA	2.25	0.50
1:K:561:ASP:OD1	1:K:562:ILE:HD12	2.11	0.50
1:L:223:MET:HA	1:L:241:GLU:CD	2.37	0.50
1:L:363:GLN:O	1:L:422:MET:HA	2.12	0.50
1:L:492:GLU:HG3	1:L:493:GLY:N	2.27	0.50
1:L:611:GLN:HE22	1:L:612:THR:HG23	1.67	0.50
1:M:363:GLN:O	1:M:422:MET:HA	2.12	0.50
1:M:373:GLN:HE21	1:M:380:PRO:HB3	1.76	0.50
1:N:600:SER:OG	1:O:540:VAL:HG12	2.12	0.50
1:O:86:PHE:HA	1:O:102:LYS:HE3	1.94	0.50
1:O:88:VAL:HG12	1:O:98:VAL:HA	1.94	0.50
1:A:86:PHE:HA	1:A:102:LYS:HE3	1.94	0.50
1:A:363:GLN:O	1:A:422:MET:HA	2.12	0.50
1:A:517:ASP:CG	1:A:518:LEU:N	2.67	0.50
1:A:545:LEU:O	1:A:545:LEU:HD12	2.12	0.50
1:B:166:THR:HG23	1:B:167:GLY:H	1.75	0.50
1:B:527:VAL:HG21	1:B:583:LEU:CD1	2.41	0.50
1:B:533:VAL:HG12	1:B:534:GLY:O	2.12	0.50
1:B:545:LEU:HD12	1:B:545:LEU:O	2.12	0.50
1:C:477:ARG:HH11	1:D:459:VAL:HB	1.65	0.50
1:C:527:VAL:HG21	1:C:583:LEU:CD1	2.41	0.50
1:D:108:ALA:O	1:D:109:VAL:HG13	2.12	0.50
1:D:363:GLN:O	1:D:422:MET:HA	2.12	0.50
1:E:108:ALA:O	1:E:109:VAL:HG13	2.12	0.50
1:E:199:SER:HA	1:F:324:ASP:HB3	1.93	0.50
1:F:484:LEU:HD23	1:F:502:GLN:HB3	1.94	0.50
1:G:108:ALA:O	1:G:109:VAL:HG13	2.12	0.50
1:H:484:LEU:HD23	1:H:502:GLN:HB3	1.94	0.50
1:H:524:THR:C	1:H:525:ARG:HD3	2.37	0.50
1:H:621:GLU:HG2	1:I:436:LEU:CD1	2.41	0.50
1:I:223:MET:HA	1:I:241:GLU:CD	2.36	0.50
1:J:223:MET:HA	1:J:241:GLU:CD	2.36	0.50
1:J:363:GLN:O	1:J:422:MET:HA	2.12	0.50
1:J:621:GLU:HG2	1:K:436:LEU:HD11	1.93	0.50
1:J:629:LEU:CD2	1:K:538:THR:HG22	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:363:GLN:O	1:K:422:MET:HA	2.12	0.50
1:L:608:ASN:OD1	1:L:612:THR:HG23	2.11	0.50
1:M:527:VAL:HG21	1:M:583:LEU:CD1	2.41	0.50
1:N:158:GLU:OE2	1:O:133:VAL:HG11	2.11	0.50
1:N:533:VAL:HG12	1:N:534:GLY:O	2.12	0.50
1:O:206:LEU:O	1:O:206:LEU:HD23	2.11	0.50
2:S:54:GLY:HA3	2:S:123:LEU:HD11	1.94	0.50
1:A:389:ASN:O	1:A:393:LYS:HB2	2.11	0.50
1:A:484:LEU:HD23	1:A:502:GLN:HB3	1.94	0.50
1:B:503:GLU:HA	1:B:525:ARG:O	2.11	0.50
1:B:560:GLY:HA2	1:B:566:GLY:O	2.12	0.50
1:D:391:TYR:CE1	1:D:396:THR:HA	2.46	0.50
1:D:503:GLU:HA	1:D:525:ARG:O	2.11	0.50
1:E:88:VAL:HG12	1:E:98:VAL:HA	1.94	0.50
1:E:363:GLN:O	1:E:422:MET:HA	2.12	0.50
1:E:533:VAL:HG12	1:E:534:GLY:O	2.12	0.50
1:E:643:VAL:HG21	2:T:105:LEU:CD2	2.41	0.50
1:F:391:TYR:CE1	1:F:396:THR:HA	2.45	0.50
1:F:524:THR:C	1:F:525:ARG:HD3	2.37	0.50
1:F:533:VAL:HG12	1:F:534:GLY:O	2.12	0.50
1:G:190:VAL:HG22	1:G:239:SER:OG	2.12	0.50
1:G:373:GLN:HE21	1:G:380:PRO:HB3	1.76	0.50
1:G:561:ASP:OD1	1:G:562:ILE:HD12	2.11	0.50
1:I:560:GLY:HA2	1:I:566:GLY:O	2.12	0.50
1:J:88:VAL:HG12	1:J:98:VAL:HA	1.94	0.50
1:J:108:ALA:O	1:J:109:VAL:HG13	2.12	0.50
1:J:262:GLN:CB	1:K:331:ARG:NH2	2.73	0.50
1:J:560:GLY:HA2	1:J:566:GLY:O	2.12	0.50
1:L:259:GLN:HE21	1:M:331:ARG:NH1	2.10	0.50
1:L:561:ASP:OD1	1:L:562:ILE:HD12	2.11	0.50
1:M:492:GLU:HG3	1:M:493:GLY:N	2.27	0.50
1:N:484:LEU:HD23	1:N:502:GLN:HB3	1.94	0.50
1:N:560:GLY:HA2	1:N:566:GLY:O	2.12	0.50
1:O:484:LEU:HD23	1:O:502:GLN:HB3	1.94	0.50
2:U:54:GLY:HA3	2:U:123:LEU:HD11	1.94	0.50
2:d:76:ALA:HB1	2:d:130:LEU:HD12	1.88	0.50
1:A:232:ARG:NH2	1:B:259:GLN:HB3	2.27	0.50
1:A:267:VAL:HB	1:B:335:GLN:OE1	2.11	0.50
1:A:527:VAL:HG21	1:A:583:LEU:CD1	2.41	0.50
1:A:643:VAL:HG21	2:Q:105:LEU:CD2	2.41	0.50
1:D:190:VAL:HG22	1:D:239:SER:OG	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:524:THR:C	1:E:525:ARG:HD3	2.37	0.50
1:E:560:GLY:HA2	1:E:566:GLY:O	2.12	0.50
1:F:190:VAL:HG22	1:F:239:SER:OG	2.12	0.50
1:F:221:GLY:H	1:G:215:SER:HB3	1.76	0.50
1:F:267:VAL:HB	1:G:335:GLN:OE1	2.11	0.50
1:F:608:ASN:OD1	1:F:612:THR:HG23	2.11	0.50
1:F:621:GLU:HG2	1:G:436:LEU:CD1	2.42	0.50
1:G:223:MET:HA	1:G:241:GLU:CD	2.36	0.50
1:G:226:ASN:ND2	1:H:210:LEU:O	2.40	0.50
1:G:340:ARG:NE	1:G:340:ARG:HA	2.25	0.50
1:G:492:GLU:HG3	1:G:493:GLY:N	2.27	0.50
1:G:560:GLY:HA2	1:G:566:GLY:O	2.12	0.50
1:H:560:GLY:HA2	1:H:566:GLY:O	2.12	0.50
1:I:484:LEU:HD23	1:I:502:GLN:HB3	1.94	0.50
1:J:608:ASN:OD1	1:J:612:THR:HG23	2.11	0.50
1:K:108:ALA:O	1:K:109:VAL:HG13	2.12	0.50
1:K:228:VAL:HG22	1:L:210:LEU:HD13	1.93	0.50
1:K:560:GLY:HA2	1:K:566:GLY:O	2.12	0.50
1:K:650:PHE:HZ	2:Z:80:VAL:HG13	1.74	0.50
1:L:206:LEU:O	1:L:206:LEU:HD23	2.11	0.50
1:M:267:VAL:HB	1:N:335:GLN:OE1	2.11	0.50
1:M:608:ASN:OD1	1:M:612:THR:HG23	2.11	0.50
1:N:86:PHE:HA	1:N:102:LYS:HE3	1.94	0.50
1:N:527:VAL:HG21	1:N:583:LEU:CD1	2.41	0.50
1:O:389:ASN:O	1:O:393:LYS:HB2	2.11	0.50
1:O:545:LEU:HD12	1:O:545:LEU:O	2.12	0.50
1:A:524:THR:C	1:A:525:ARG:HD3	2.37	0.50
1:B:484:LEU:HD23	1:B:502:GLN:HB3	1.94	0.50
1:C:560:GLY:HA2	1:C:566:GLY:O	2.12	0.50
1:C:600:SER:OG	1:D:540:VAL:HG12	2.11	0.50
1:D:88:VAL:HG12	1:D:98:VAL:HA	1.94	0.50
1:D:524:THR:C	1:D:525:ARG:HD3	2.37	0.50
1:D:629:LEU:CD2	1:E:538:THR:CG2	2.90	0.50
1:E:484:LEU:HD23	1:E:502:GLN:HB3	1.94	0.50
1:E:492:GLU:HG3	1:E:493:GLY:N	2.27	0.50
1:F:86:PHE:HA	1:F:102:LYS:HE3	1.94	0.50
1:F:389:ASN:O	1:F:393:LYS:HB2	2.11	0.50
1:F:492:GLU:HG3	1:F:493:GLY:N	2.27	0.50
1:F:545:LEU:HD12	1:F:545:LEU:O	2.12	0.50
1:F:560:GLY:HA2	1:F:566:GLY:O	2.12	0.50
1:F:650:PHE:HZ	2:U:80:VAL:HG13	1.74	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:533:VAL:HG12	1:G:534:GLY:O	2.11	0.50
1:H:166:THR:HG23	1:H:167:GLY:H	1.75	0.50
1:H:459:VAL:CG1	1:H:518:LEU:HD23	2.42	0.50
1:I:71:GLU:O	1:I:75:GLN:HG2	2.11	0.50
1:I:363:GLN:O	1:I:422:MET:HA	2.12	0.50
1:K:259:GLN:HE21	1:L:331:ARG:NH1	2.10	0.50
1:K:389:ASN:O	1:K:393:LYS:HB2	2.11	0.50
1:L:560:GLY:HA2	1:L:566:GLY:O	2.12	0.50
1:N:103:ASP:OD2	1:N:105:LYS:CG	2.56	0.50
1:N:166:THR:HG23	1:N:167:GLY:H	1.75	0.50
1:N:363:GLN:O	1:N:422:MET:HA	2.12	0.50
2:P:119:PHE:O	2:P:122:GLN:N	2.43	0.50
1:B:86:PHE:HA	1:B:102:LYS:HE3	1.94	0.49
1:B:389:ASN:O	1:B:393:LYS:HB2	2.11	0.49
1:B:459:VAL:CG1	1:B:518:LEU:HD23	2.42	0.49
1:B:524:THR:C	1:B:525:ARG:HD3	2.37	0.49
1:C:108:ALA:O	1:C:109:VAL:HG13	2.12	0.49
1:C:373:GLN:HE21	1:C:380:PRO:HB3	1.76	0.49
1:C:484:LEU:HD23	1:C:502:GLN:HB3	1.94	0.49
1:D:389:ASN:O	1:D:393:LYS:HB2	2.11	0.49
1:D:545:LEU:O	1:D:545:LEU:HD12	2.12	0.49
1:E:86:PHE:HA	1:E:102:LYS:HE3	1.94	0.49
1:F:108:ALA:O	1:F:109:VAL:HG13	2.12	0.49
1:F:476:GLU:CG	1:F:477:ARG:H	2.24	0.49
1:I:459:VAL:CG1	1:I:518:LEU:HD23	2.42	0.49
1:I:561:ASP:OD1	1:I:562:ILE:HD12	2.11	0.49
1:J:459:VAL:CG1	1:J:518:LEU:HD23	2.42	0.49
1:K:311:HIS:CD2	1:K:313:GLN:OE1	2.66	0.49
1:M:484:LEU:HD23	1:M:502:GLN:HB3	1.94	0.49
1:N:476:GLU:CG	1:N:477:ARG:H	2.24	0.49
1:N:545:LEU:HD12	1:N:545:LEU:O	2.12	0.49
1:N:561:ASP:OD1	1:N:562:ILE:HD12	2.11	0.49
1:O:363:GLN:O	1:O:422:MET:HA	2.12	0.49
1:O:527:VAL:HG21	1:O:583:LEU:CD1	2.41	0.49
2:W:55:THR:N	2:W:123:LEU:CD1	2.75	0.49
2:Z:55:THR:N	2:Z:123:LEU:CD1	2.75	0.49
2:a:76:ALA:HB1	2:a:130:LEU:HD12	1.88	0.49
2:c:119:PHE:O	2:c:122:GLN:N	2.43	0.49
1:A:88:VAL:HG12	1:A:98:VAL:HA	1.94	0.49
1:A:130:LEU:HD11	1:A:133:VAL:HB	1.94	0.49
1:A:311:HIS:CD2	1:A:313:GLN:OE1	2.66	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:490:ILE:O	1:A:490:ILE:HG13	2.12	0.49
1:A:561:ASP:OD1	1:A:562:ILE:HD12	2.11	0.49
1:B:71:GLU:O	1:B:75:GLN:HG2	2.11	0.49
1:C:524:THR:C	1:C:525:ARG:HD3	2.37	0.49
1:D:223:MET:HA	1:D:241:GLU:CD	2.37	0.49
1:D:533:VAL:HG12	1:D:534:GLY:O	2.11	0.49
1:G:86:PHE:HA	1:G:102:LYS:HE3	1.94	0.49
1:H:108:ALA:O	1:H:109:VAL:HG13	2.12	0.49
1:H:158:GLU:HB3	1:H:162:VAL:HG12	1.94	0.49
1:H:363:GLN:O	1:H:422:MET:HA	2.12	0.49
1:I:643:VAL:HG21	2:X:105:LEU:CD2	2.41	0.49
1:J:158:GLU:HB3	1:J:162:VAL:HG12	1.94	0.49
1:J:190:VAL:HG22	1:J:239:SER:OG	2.12	0.49
1:J:311:HIS:CD2	1:J:313:GLN:OE1	2.66	0.49
1:J:373:GLN:HE21	1:J:380:PRO:HB3	1.76	0.49
1:J:484:LEU:HD23	1:J:502:GLN:HB3	1.94	0.49
1:K:459:VAL:CG1	1:K:518:LEU:HD23	2.42	0.49
1:L:108:ALA:O	1:L:109:VAL:HG13	2.12	0.49
1:L:130:LEU:HD11	1:L:133:VAL:HB	1.94	0.49
1:M:130:LEU:HD11	1:M:133:VAL:HB	1.94	0.49
1:M:223:MET:HA	1:M:241:GLU:CD	2.36	0.49
1:M:228:VAL:HG22	1:N:210:LEU:HD13	1.94	0.49
1:N:459:VAL:CG1	1:N:518:LEU:HD23	2.42	0.49
1:O:130:LEU:HD11	1:O:133:VAL:HB	1.94	0.49
2:Y:55:THR:N	2:Y:123:LEU:CD1	2.76	0.49
2:a:55:THR:N	2:a:123:LEU:CD1	2.75	0.49
1:A:221:GLY:H	1:B:215:SER:HB3	1.77	0.49
1:A:223:MET:HA	1:A:241:GLU:CD	2.36	0.49
1:B:130:LEU:HD11	1:B:133:VAL:HB	1.94	0.49
1:B:228:VAL:HG22	1:C:210:LEU:HD13	1.94	0.49
1:B:311:HIS:CD2	1:B:313:GLN:OE1	2.66	0.49
1:C:503:GLU:HA	1:C:525:ARG:O	2.11	0.49
1:D:71:GLU:O	1:D:75:GLN:HG2	2.11	0.49
1:D:158:GLU:OE2	1:E:133:VAL:HG11	2.12	0.49
1:D:228:VAL:HG22	1:E:210:LEU:HD13	1.94	0.49
1:D:484:LEU:HD23	1:D:502:GLN:HB3	1.94	0.49
1:D:486:VAL:HG12	1:D:500:ILE:HG22	1.94	0.49
1:E:459:VAL:CG1	1:E:518:LEU:HD23	2.42	0.49
1:E:486:VAL:HG12	1:E:500:ILE:HG22	1.94	0.49
1:F:486:VAL:HG12	1:F:500:ILE:HG22	1.94	0.49
1:H:490:ILE:HG13	1:H:490:ILE:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:533:VAL:HG12	1:H:534:GLY:O	2.12	0.49
1:I:108:ALA:O	1:I:109:VAL:HG13	2.12	0.49
1:J:389:ASN:O	1:J:393:LYS:HB2	2.11	0.49
1:L:311:HIS:CD2	1:L:313:GLN:OE1	2.66	0.49
1:L:503:GLU:HA	1:L:525:ARG:O	2.11	0.49
1:M:560:GLY:HA2	1:M:566:GLY:O	2.12	0.49
1:O:311:HIS:CD2	1:O:313:GLN:OE1	2.66	0.49
1:O:490:ILE:O	1:O:490:ILE:HG13	2.12	0.49
1:O:492:GLU:HG3	1:O:493:GLY:N	2.27	0.49
2:P:54:GLY:HA3	2:P:123:LEU:HD11	1.94	0.49
2:T:55:THR:N	2:T:123:LEU:CD1	2.76	0.49
2:V:55:THR:N	2:V:123:LEU:CD1	2.75	0.49
2:c:55:THR:N	2:c:123:LEU:CD1	2.76	0.49
1:B:108:ALA:O	1:B:109:VAL:HG13	2.12	0.49
1:B:363:GLN:O	1:B:422:MET:HA	2.12	0.49
1:B:373:GLN:HE21	1:B:380:PRO:HB3	1.76	0.49
1:C:88:VAL:HG12	1:C:98:VAL:HA	1.94	0.49
1:C:259:GLN:HE21	1:D:331:ARG:NH1	2.11	0.49
1:C:311:HIS:CD2	1:C:313:GLN:OE1	2.66	0.49
1:C:363:GLN:O	1:C:422:MET:HA	2.12	0.49
1:D:459:VAL:CG1	1:D:518:LEU:HD23	2.42	0.49
1:D:492:GLU:HG3	1:D:493:GLY:N	2.27	0.49
1:F:629:LEU:CD2	1:G:538:THR:CG2	2.91	0.49
1:G:459:VAL:CG1	1:G:518:LEU:HD23	2.42	0.49
1:H:86:PHE:HA	1:H:102:LYS:HE3	1.94	0.49
1:H:103:ASP:OD2	1:H:105:LYS:CG	2.56	0.49
1:H:545:LEU:HD12	1:H:545:LEU:O	2.12	0.49
1:H:643:VAL:HG21	2:W:105:LEU:CD2	2.41	0.49
1:J:95:VAL:CG1	1:J:96:LEU:H	2.23	0.49
1:K:130:LEU:HD11	1:K:133:VAL:HB	1.94	0.49
1:K:524:THR:C	1:K:525:ARG:HD3	2.37	0.49
1:K:608:ASN:OD1	1:K:612:THR:HG23	2.11	0.49
1:L:158:GLU:HB3	1:L:162:VAL:HG12	1.94	0.49
1:L:484:LEU:HD23	1:L:502:GLN:HB3	1.94	0.49
1:L:533:VAL:HG12	1:L:534:GLY:O	2.11	0.49
1:M:533:VAL:HG12	1:M:534:GLY:O	2.11	0.49
1:M:545:LEU:HD12	1:M:545:LEU:O	2.12	0.49
1:N:130:LEU:HD11	1:N:133:VAL:HB	1.94	0.49
1:N:490:ILE:HG13	1:N:490:ILE:O	2.12	0.49
1:N:524:THR:C	1:N:525:ARG:HD3	2.37	0.49
2:V:54:GLY:HA3	2:V:123:LEU:HD11	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Y:54:GLY:HA3	2:Y:123:LEU:HD11	1.94	0.49
1:B:88:VAL:HG12	1:B:98:VAL:HA	1.94	0.49
1:B:174:ARG:HG3	1:B:175:LEU:CD2	2.43	0.49
1:C:533:VAL:HG12	1:C:534:GLY:O	2.12	0.49
1:C:561:ASP:OD1	1:C:562:ILE:HD12	2.11	0.49
1:D:362:ILE:HA	1:D:423:LEU:O	2.13	0.49
1:D:621:GLU:HG2	1:E:436:LEU:HD11	1.94	0.49
1:E:545:LEU:HD12	1:E:545:LEU:O	2.12	0.49
1:F:362:ILE:HA	1:F:423:LEU:O	2.13	0.49
1:G:486:VAL:HG12	1:G:500:ILE:HG22	1.94	0.49
1:H:486:VAL:HG12	1:H:500:ILE:HG22	1.94	0.49
1:I:311:HIS:CD2	1:I:313:GLN:OE1	2.66	0.49
1:I:524:THR:C	1:I:525:ARG:HD3	2.37	0.49
1:I:533:VAL:HG12	1:I:534:GLY:O	2.11	0.49
1:I:545:LEU:O	1:I:545:LEU:HD12	2.12	0.49
1:J:545:LEU:HD12	1:J:545:LEU:O	2.12	0.49
1:K:158:GLU:HB3	1:K:162:VAL:HG12	1.94	0.49
1:K:484:LEU:HD23	1:K:502:GLN:HB3	1.94	0.49
1:K:545:LEU:HD12	1:K:545:LEU:O	2.12	0.49
1:K:643:VAL:HG21	2:Z:105:LEU:CD2	2.41	0.49
1:L:373:GLN:HE21	1:L:380:PRO:HB3	1.76	0.49
1:L:545:LEU:O	1:L:545:LEU:HD12	2.12	0.49
1:M:190:VAL:HG22	1:M:239:SER:OG	2.12	0.49
1:M:364:TRP:N	1:M:372:THR:OG1	2.42	0.49
1:N:517:ASP:CG	1:N:518:LEU:N	2.67	0.49
1:O:560:GLY:HA2	1:O:566:GLY:O	2.12	0.49
2:S:55:THR:N	2:S:123:LEU:CD1	2.75	0.49
2:Y:119:PHE:O	2:Y:122:GLN:N	2.43	0.49
2:Z:54:GLY:HA3	2:Z:123:LEU:HD11	1.94	0.49
2:c:54:GLY:HA3	2:c:123:LEU:HD11	1.94	0.49
1:A:459:VAL:CG1	1:A:518:LEU:HD23	2.42	0.49
1:A:629:LEU:CD2	1:B:538:THR:CG2	2.91	0.49
1:B:490:ILE:O	1:B:490:ILE:HG13	2.12	0.49
1:B:492:GLU:HG3	1:B:493:GLY:N	2.27	0.49
1:I:86:PHE:HA	1:I:102:LYS:HE3	1.94	0.49
1:I:362:ILE:HA	1:I:423:LEU:O	2.13	0.49
1:I:491:ASN:CG	1:I:492:GLU:N	2.69	0.49
1:K:344:LEU:HD12	1:K:441:ILE:O	2.13	0.49
1:K:533:VAL:HG12	1:K:534:GLY:O	2.11	0.49
1:K:621:GLU:HG2	1:L:436:LEU:HD11	1.94	0.49
1:L:190:VAL:HG22	1:L:239:SER:OG	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:86:PHE:HA	1:M:102:LYS:HE3	1.94	0.49
1:M:362:ILE:HA	1:M:423:LEU:O	2.13	0.49
1:N:190:VAL:HG22	1:N:239:SER:OG	2.12	0.49
1:N:349:ILE:HG22	1:N:583:LEU:HD23	1.95	0.49
2:P:76:ALA:HB1	2:P:130:LEU:HD12	1.88	0.49
2:b:55:THR:N	2:b:123:LEU:CD1	2.75	0.49
1:A:199:SER:HA	1:B:324:ASP:HB3	1.94	0.49
1:B:643:VAL:CB	2:R:105:LEU:HD21	2.43	0.49
1:C:174:ARG:HG3	1:C:175:LEU:CD2	2.43	0.49
1:C:190:VAL:HG22	1:C:239:SER:OG	2.12	0.49
1:D:311:HIS:CD2	1:D:313:GLN:OE1	2.66	0.49
1:D:629:LEU:CD2	1:E:538:THR:HG22	2.43	0.49
1:G:490:ILE:O	1:G:490:ILE:HG13	2.12	0.49
1:H:362:ILE:HA	1:H:423:LEU:O	2.13	0.49
1:I:158:GLU:HB3	1:I:162:VAL:HG12	1.94	0.49
1:I:486:VAL:HG12	1:I:500:ILE:HG22	1.94	0.49
1:I:490:ILE:HG13	1:I:490:ILE:O	2.12	0.49
1:J:344:LEU:HD12	1:J:441:ILE:O	2.13	0.49
1:K:362:ILE:HA	1:K:423:LEU:O	2.13	0.49
1:N:311:HIS:CD2	1:N:313:GLN:OE1	2.65	0.49
1:O:351:GLU:HG2	1:O:435:ILE:CG2	2.43	0.49
2:R:55:THR:N	2:R:123:LEU:CD1	2.75	0.49
2:b:54:GLY:HA3	2:b:123:LEU:HD11	1.94	0.49
2:d:54:GLY:HA3	2:d:123:LEU:HD11	1.94	0.49
1:A:174:ARG:HG3	1:A:175:LEU:CD2	2.43	0.49
1:A:210:LEU:HD13	1:O:228:VAL:HG22	1.95	0.49
1:A:226:ASN:ND2	1:B:210:LEU:O	2.41	0.49
1:A:351:GLU:HG2	1:A:435:ILE:CG2	2.43	0.49
1:A:477:ARG:NH1	1:B:459:VAL:HG21	2.27	0.49
1:B:351:GLU:HG2	1:B:435:ILE:CG2	2.43	0.49
1:C:130:LEU:HD11	1:C:133:VAL:HB	1.94	0.49
1:E:262:GLN:CB	1:F:331:ARG:NH2	2.75	0.49
1:E:344:LEU:HD12	1:E:441:ILE:O	2.13	0.49
1:F:130:LEU:HD11	1:F:133:VAL:HB	1.94	0.49
1:F:643:VAL:CB	2:U:105:LEU:HD21	2.43	0.49
1:G:363:GLN:O	1:G:422:MET:HA	2.12	0.49
1:H:491:ASN:CG	1:H:492:GLU:N	2.69	0.49
1:I:476:GLU:CG	1:I:477:ARG:H	2.24	0.49
1:J:130:LEU:HD11	1:J:133:VAL:HB	1.94	0.49
1:J:221:GLY:H	1:K:215:SER:HB3	1.77	0.49
1:J:491:ASN:CG	1:J:492:GLU:N	2.69	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:524:THR:C	1:J:525:ARG:HD3	2.37	0.49
1:J:643:VAL:HG21	2:Y:105:LEU:CD2	2.41	0.49
1:L:344:LEU:HD12	1:L:441:ILE:O	2.13	0.49
1:L:362:ILE:HA	1:L:423:LEU:O	2.13	0.49
1:L:459:VAL:CG1	1:L:518:LEU:HD23	2.42	0.49
1:L:643:VAL:CB	2:a:105:LEU:HD21	2.43	0.49
1:M:108:ALA:O	1:M:109:VAL:HG13	2.12	0.49
1:M:158:GLU:HB3	1:M:162:VAL:HG12	1.94	0.49
1:N:158:GLU:HB3	1:N:162:VAL:HG12	1.94	0.49
1:N:351:GLU:HG2	1:N:435:ILE:CG2	2.43	0.49
1:O:349:ILE:HG22	1:O:583:LEU:HD23	1.95	0.49
2:T:76:ALA:HB1	2:T:130:LEU:HD12	1.88	0.49
2:U:55:THR:N	2:U:123:LEU:CD1	2.75	0.49
2:X:54:GLY:HA3	2:X:123:LEU:HD11	1.94	0.49
2:X:55:THR:N	2:X:123:LEU:CD1	2.75	0.49
2:d:55:THR:N	2:d:123:LEU:CD1	2.75	0.49
1:A:108:ALA:O	1:A:109:VAL:HG13	2.12	0.49
1:A:560:GLY:HA2	1:A:566:GLY:O	2.12	0.49
1:B:362:ILE:HA	1:B:423:LEU:O	2.13	0.49
1:B:643:VAL:HG21	2:R:105:LEU:CD2	2.41	0.49
1:C:86:PHE:HA	1:C:102:LYS:HE3	1.94	0.49
1:C:351:GLU:HG2	1:C:435:ILE:CG2	2.43	0.49
1:C:643:VAL:CB	2:P:105:LEU:HD21	2.43	0.49
1:D:86:PHE:HA	1:D:102:LYS:HE3	1.94	0.49
1:D:344:LEU:HD12	1:D:441:ILE:O	2.13	0.49
1:E:311:HIS:CD2	1:E:313:GLN:OE1	2.66	0.49
1:G:362:ILE:HA	1:G:423:LEU:O	2.13	0.49
1:G:600:SER:OG	1:H:540:VAL:HG12	2.13	0.49
1:J:86:PHE:HA	1:J:102:LYS:HE3	1.94	0.49
1:J:232:ARG:HH21	1:J:233:THR:HG22	1.78	0.49
1:J:362:ILE:HA	1:J:423:LEU:O	2.13	0.49
1:K:190:VAL:HG22	1:K:239:SER:OG	2.12	0.49
1:K:232:ARG:HH21	1:K:233:THR:HG22	1.78	0.49
1:M:349:ILE:HG22	1:M:583:LEU:HD23	1.95	0.49
1:M:351:GLU:HG2	1:M:435:ILE:CG2	2.43	0.49
1:M:490:ILE:O	1:M:490:ILE:HG13	2.12	0.49
1:O:459:VAL:CG1	1:O:518:LEU:HD23	2.42	0.49
2:Q:55:THR:N	2:Q:123:LEU:CD1	2.75	0.49
1:A:349:ILE:HG22	1:A:583:LEU:HD23	1.95	0.49
1:B:190:VAL:HG22	1:B:239:SER:OG	2.11	0.49
1:C:362:ILE:HA	1:C:423:LEU:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:560:GLY:HA2	1:D:566:GLY:O	2.12	0.49
1:F:158:GLU:HB3	1:F:162:VAL:HG12	1.94	0.49
1:F:259:GLN:HE21	1:G:331:ARG:NH1	2.11	0.49
1:F:311:HIS:CD2	1:F:313:GLN:OE1	2.66	0.49
1:F:363:GLN:O	1:F:422:MET:HA	2.12	0.49
1:F:459:VAL:CG1	1:F:518:LEU:HD23	2.42	0.49
1:F:643:VAL:HG21	2:U:105:LEU:CD2	2.41	0.49
1:G:130:LEU:HD11	1:G:133:VAL:HB	1.94	0.49
1:G:158:GLU:HB3	1:G:162:VAL:HG12	1.94	0.49
1:G:311:HIS:CD2	1:G:313:GLN:OE1	2.66	0.49
1:G:524:THR:C	1:G:525:ARG:HD3	2.37	0.49
1:H:311:HIS:CD2	1:H:313:GLN:OE1	2.66	0.49
1:I:232:ARG:HH21	1:I:233:THR:HG22	1.78	0.49
1:K:643:VAL:CB	2:Z:105:LEU:HD21	2.43	0.49
1:L:232:ARG:HH21	1:L:233:THR:HG22	1.78	0.49
1:M:311:HIS:CD2	1:M:313:GLN:OE1	2.66	0.49
1:N:486:VAL:HG12	1:N:500:ILE:HG22	1.94	0.49
1:N:522:PHE:O	1:N:524:THR:HG23	2.13	0.49
1:O:103:ASP:OD2	1:O:105:LYS:CG	2.56	0.49
1:O:190:VAL:HG22	1:O:239:SER:OG	2.12	0.49
2:V:76:ALA:HB1	2:V:130:LEU:HD12	1.88	0.49
2:a:54:GLY:HA3	2:a:123:LEU:HD11	1.94	0.49
1:A:436:LEU:HD11	1:O:621:GLU:HG2	1.95	0.48
1:C:459:VAL:CG1	1:C:518:LEU:HD23	2.42	0.48
1:D:174:ARG:HG3	1:D:175:LEU:CD2	2.43	0.48
1:D:351:GLU:HG2	1:D:435:ILE:CG2	2.43	0.48
1:E:643:VAL:CB	2:T:105:LEU:HD21	2.43	0.48
1:G:643:VAL:HG21	2:V:105:LEU:CD2	2.41	0.48
1:J:199:SER:HA	1:K:324:ASP:HB3	1.94	0.48
1:M:524:THR:C	1:M:525:ARG:HD3	2.37	0.48
1:M:643:VAL:CB	2:b:105:LEU:HD21	2.43	0.48
1:N:362:ILE:HA	1:N:423:LEU:O	2.13	0.48
1:O:524:THR:C	1:O:525:ARG:HD3	2.37	0.48
2:P:55:THR:N	2:P:123:LEU:CD1	2.75	0.48
2:R:54:GLY:HA3	2:R:123:LEU:HD11	1.94	0.48
2:W:54:GLY:HA3	2:W:123:LEU:HD11	1.94	0.48
2:W:119:PHE:O	2:W:122:GLN:N	2.43	0.48
1:A:190:VAL:HG22	1:A:239:SER:OG	2.12	0.48
1:B:517:ASP:CG	1:B:518:LEU:N	2.67	0.48
1:C:344:LEU:HD12	1:C:441:ILE:O	2.13	0.48
1:E:362:ILE:HA	1:E:423:LEU:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:344:LEU:HD12	1:F:441:ILE:O	2.13	0.48
1:G:103:ASP:OD2	1:G:105:LYS:CG	2.56	0.48
1:G:522:PHE:O	1:G:524:THR:HG23	2.13	0.48
1:I:522:PHE:O	1:I:524:THR:HG23	2.13	0.48
1:J:533:VAL:HG12	1:J:534:GLY:O	2.12	0.48
1:K:86:PHE:HA	1:K:102:LYS:HE3	1.94	0.48
1:L:349:ILE:HG22	1:L:583:LEU:HD23	1.95	0.48
1:M:344:LEU:HD12	1:M:441:ILE:O	2.13	0.48
1:O:108:ALA:O	1:O:109:VAL:HG13	2.12	0.48
1:O:153:SER:OG	1:O:154:VAL:N	2.46	0.48
2:Q:54:GLY:HA3	2:Q:123:LEU:HD11	1.94	0.48
2:Y:108:ASP:OD1	2:Y:109:SER:N	2.47	0.48
2:Z:108:ASP:OD1	2:Z:109:SER:N	2.47	0.48
1:A:158:GLU:HB3	1:A:162:VAL:HG12	1.94	0.48
1:A:362:ILE:HA	1:A:423:LEU:O	2.13	0.48
1:A:522:PHE:O	1:A:524:THR:HG23	2.13	0.48
1:B:153:SER:OG	1:B:154:VAL:N	2.46	0.48
1:B:486:VAL:HG12	1:B:500:ILE:HG22	1.94	0.48
1:C:486:VAL:HG12	1:C:500:ILE:HG22	1.94	0.48
1:D:522:PHE:O	1:D:524:THR:HG23	2.13	0.48
1:E:130:LEU:HD11	1:E:133:VAL:HB	1.94	0.48
1:F:459:VAL:O	1:F:475:VAL:CB	2.61	0.48
1:H:130:LEU:HD11	1:H:133:VAL:HB	1.94	0.48
1:I:153:SER:OG	1:I:154:VAL:N	2.46	0.48
1:I:344:LEU:HD12	1:I:441:ILE:O	2.13	0.48
1:J:158:GLU:OE2	1:K:133:VAL:HG11	2.12	0.48
1:J:643:VAL:CB	2:Y:105:LEU:HD21	2.43	0.48
1:L:522:PHE:O	1:L:524:THR:HG23	2.13	0.48
1:L:621:GLU:HG2	1:M:436:LEU:HD11	1.95	0.48
1:N:108:ALA:O	1:N:109:VAL:HG13	2.12	0.48
1:N:232:ARG:HH21	1:N:233:THR:HG22	1.78	0.48
1:N:629:LEU:CD2	1:O:538:THR:CG2	2.91	0.48
1:O:174:ARG:HG3	1:O:175:LEU:CD2	2.43	0.48
1:O:232:ARG:HH21	1:O:233:THR:HG22	1.78	0.48
1:A:228:VAL:HG22	1:B:210:LEU:HD13	1.95	0.48
1:A:643:VAL:CB	2:Q:105:LEU:HD21	2.43	0.48
1:B:226:ASN:ND2	1:C:210:LEU:O	2.42	0.48
1:B:349:ILE:HG22	1:B:583:LEU:HD23	1.95	0.48
1:B:522:PHE:O	1:B:524:THR:HG23	2.13	0.48
1:C:490:ILE:HG13	1:C:490:ILE:O	2.12	0.48
1:C:650:PHE:HZ	2:P:80:VAL:HG13	1.74	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:130:LEU:HD11	1:D:133:VAL:HB	1.94	0.48
1:D:364:TRP:N	1:D:372:THR:OG1	2.42	0.48
1:E:522:PHE:O	1:E:524:THR:HG23	2.13	0.48
1:F:349:ILE:HG22	1:F:583:LEU:HD23	1.95	0.48
1:F:522:PHE:O	1:F:524:THR:HG23	2.13	0.48
1:G:47:ASN:OD1	1:H:65:TYR:CD2	2.67	0.48
1:G:643:VAL:CB	2:V:105:LEU:HD21	2.43	0.48
1:I:130:LEU:HD11	1:I:133:VAL:HB	1.94	0.48
1:K:522:PHE:O	1:K:524:THR:HG23	2.13	0.48
1:L:86:PHE:HA	1:L:102:LYS:HE3	1.94	0.48
1:L:228:VAL:HG22	1:M:210:LEU:HD13	1.94	0.48
1:L:486:VAL:HG12	1:L:500:ILE:HG22	1.94	0.48
1:L:524:THR:C	1:L:525:ARG:HD3	2.37	0.48
1:M:459:VAL:CG1	1:M:518:LEU:HD23	2.42	0.48
1:N:459:VAL:O	1:N:475:VAL:CB	2.61	0.48
1:N:629:LEU:CD2	1:O:538:THR:HG22	2.42	0.48
1:N:643:VAL:CB	2:c:105:LEU:HD21	2.43	0.48
2:X:108:ASP:OD1	2:X:109:SER:N	2.47	0.48
2:a:119:PHE:O	2:a:122:GLN:N	2.43	0.48
1:A:259:GLN:NE2	1:B:331:ARG:NH1	2.62	0.48
1:A:546:ASP:CG	1:O:437:ALA:HA	2.39	0.48
1:B:232:ARG:HH21	1:B:233:THR:HG22	1.78	0.48
1:C:153:SER:OG	1:C:154:VAL:N	2.46	0.48
1:C:228:VAL:HG22	1:D:210:LEU:HD13	1.96	0.48
1:C:232:ARG:HH21	1:C:233:THR:HG22	1.78	0.48
1:E:158:GLU:HB3	1:E:162:VAL:HG12	1.94	0.48
1:E:351:GLU:HG2	1:E:435:ILE:CG2	2.43	0.48
1:E:477:ARG:HH11	1:F:459:VAL:HB	1.71	0.48
1:F:490:ILE:HG13	1:F:490:ILE:O	2.12	0.48
1:G:349:ILE:HG22	1:G:583:LEU:HD23	1.95	0.48
1:G:491:ASN:CG	1:G:492:GLU:N	2.69	0.48
1:H:153:SER:OG	1:H:154:VAL:N	2.46	0.48
1:H:228:VAL:HG22	1:I:210:LEU:HD13	1.94	0.48
1:J:486:VAL:HG12	1:J:500:ILE:HG22	1.94	0.48
1:J:490:ILE:O	1:J:490:ILE:HG13	2.12	0.48
1:K:203:VAL:O	1:K:206:LEU:N	2.44	0.48
1:L:476:GLU:CG	1:L:477:ARG:H	2.24	0.48
1:N:349:ILE:CD1	1:N:504:VAL:HG11	2.44	0.48
1:A:158:GLU:OE1	1:B:182:VAL:HG21	2.14	0.48
1:C:522:PHE:O	1:C:524:THR:HG23	2.13	0.48
1:E:165:MET:N	1:E:165:MET:SD	2.87	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:349:ILE:CD1	1:E:504:VAL:HG11	2.44	0.48
1:E:349:ILE:HG22	1:E:583:LEU:HD23	1.95	0.48
1:F:349:ILE:CD1	1:F:504:VAL:HG11	2.43	0.48
1:G:344:LEU:HD12	1:G:441:ILE:O	2.13	0.48
1:K:349:ILE:CD1	1:K:504:VAL:HG11	2.43	0.48
1:K:629:LEU:CD2	1:L:538:THR:HG22	2.44	0.48
1:M:650:PHE:HZ	2:b:80:VAL:HG13	1.74	0.48
1:O:95:VAL:CG1	1:O:96:LEU:H	2.23	0.48
1:O:643:VAL:HG21	2:d:105:LEU:CD2	2.41	0.48
2:R:64:ARG:HH22	2:R:127:ILE:HD13	1.79	0.48
2:Z:64:ARG:HH22	2:Z:127:ILE:HD13	1.79	0.48
2:Z:119:PHE:O	2:Z:122:GLN:N	2.43	0.48
2:a:108:ASP:OD1	2:a:109:SER:N	2.46	0.48
2:d:64:ARG:HH22	2:d:127:ILE:HD13	1.79	0.48
3:i:108:LEU:HG	3:i:109:ALA:N	2.29	0.48
1:A:165:MET:N	1:A:165:MET:SD	2.87	0.48
1:A:486:VAL:HG12	1:A:500:ILE:HG22	1.94	0.48
1:B:95:VAL:CG1	1:B:96:LEU:H	2.23	0.48
1:B:624:LEU:O	1:B:627:ASP:HB2	2.14	0.48
1:C:158:GLU:HB3	1:C:162:VAL:HG12	1.94	0.48
1:C:165:MET:N	1:C:165:MET:SD	2.87	0.48
1:D:643:VAL:CB	2:S:105:LEU:HD21	2.43	0.48
1:G:165:MET:SD	1:G:165:MET:N	2.87	0.48
1:H:158:GLU:OE2	1:I:133:VAL:HG11	2.13	0.48
1:H:349:ILE:HG22	1:H:583:LEU:HD23	1.95	0.48
1:I:401:LEU:HA	1:I:401:LEU:HD13	1.69	0.48
1:K:65:TYR:CZ	3:n:113:PRO:HG3	2.48	0.48
1:M:486:VAL:HG12	1:M:500:ILE:HG22	1.94	0.48
1:O:643:VAL:CB	2:d:105:LEU:HD21	2.43	0.48
2:Q:108:ASP:OD1	2:Q:109:SER:N	2.47	0.48
2:T:64:ARG:HH22	2:T:127:ILE:HD13	1.79	0.48
2:W:64:ARG:HH22	2:W:127:ILE:HD13	1.79	0.48
2:b:64:ARG:HH22	2:b:127:ILE:HD13	1.79	0.48
2:c:108:ASP:OD1	2:c:109:SER:N	2.47	0.48
2:d:108:ASP:OD1	2:d:109:SER:N	2.47	0.48
3:f:108:LEU:HG	3:f:109:ALA:N	2.29	0.48
1:A:232:ARG:HH21	1:A:233:THR:HG22	1.78	0.48
1:B:158:GLU:HB3	1:B:162:VAL:HG12	1.94	0.48
1:C:262:GLN:N	1:D:331:ARG:HH22	2.06	0.48
1:C:349:ILE:CD1	1:C:504:VAL:HG11	2.43	0.48
1:C:624:LEU:O	1:C:627:ASP:HB2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:232:ARG:HH21	1:D:233:THR:HG22	1.78	0.48
1:D:349:ILE:CD1	1:D:504:VAL:HG11	2.44	0.48
1:E:74:TYR:OH	1:E:90:ASN:ND2	2.47	0.48
1:E:153:SER:OG	1:E:154:VAL:N	2.46	0.48
1:F:174:ARG:HG3	1:F:175:LEU:CD2	2.43	0.48
1:F:629:LEU:CD2	1:G:538:THR:HG22	2.44	0.48
1:G:174:ARG:HG3	1:G:175:LEU:CD2	2.43	0.48
1:G:349:ILE:CD1	1:G:504:VAL:HG11	2.44	0.48
1:M:232:ARG:HH21	1:M:233:THR:HG22	1.78	0.48
1:M:259:GLN:HE21	1:N:331:ARG:NH1	2.12	0.48
1:O:349:ILE:CD1	1:O:504:VAL:HG11	2.43	0.48
2:T:108:ASP:OD1	2:T:109:SER:N	2.47	0.48
2:W:108:ASP:OD1	2:W:109:SER:N	2.47	0.48
2:X:119:PHE:O	2:X:122:GLN:N	2.43	0.48
2:Y:64:ARG:HH22	2:Y:127:ILE:HD13	1.79	0.48
3:n:108:LEU:HG	3:n:109:ALA:N	2.29	0.48
3:s:108:LEU:HG	3:s:109:ALA:N	2.29	0.48
1:A:74:TYR:OH	1:A:90:ASN:ND2	2.47	0.48
1:A:153:SER:OG	1:A:154:VAL:N	2.46	0.48
1:B:344:LEU:HD12	1:B:441:ILE:O	2.13	0.48
1:D:624:LEU:O	1:D:627:ASP:HB2	2.14	0.48
1:E:95:VAL:CG1	1:E:96:LEU:H	2.23	0.48
1:E:477:ARG:NH1	1:F:459:VAL:HG21	2.29	0.48
1:H:232:ARG:HH21	1:H:233:THR:HG22	1.78	0.48
1:I:643:VAL:CB	2:X:105:LEU:HD21	2.43	0.48
1:J:153:SER:OG	1:J:154:VAL:N	2.46	0.48
1:K:486:VAL:HG12	1:K:500:ILE:HG22	1.94	0.48
1:L:74:TYR:OH	1:L:90:ASN:ND2	2.47	0.48
1:L:153:SER:OG	1:L:154:VAL:N	2.46	0.48
1:L:490:ILE:O	1:L:490:ILE:HG13	2.12	0.48
1:M:522:PHE:O	1:M:524:THR:HG23	2.13	0.48
1:M:628:LEU:HB3	1:N:538:THR:HG1	1.75	0.48
1:N:165:MET:N	1:N:165:MET:SD	2.87	0.48
1:O:158:GLU:HB3	1:O:162:VAL:HG12	1.94	0.48
1:O:362:ILE:HA	1:O:423:LEU:O	2.13	0.48
1:O:486:VAL:HG12	1:O:500:ILE:HG22	1.94	0.48
2:R:108:ASP:OD1	2:R:109:SER:N	2.47	0.48
2:S:108:ASP:OD1	2:S:109:SER:N	2.47	0.48
2:c:64:ARG:HH22	2:c:127:ILE:HD13	1.79	0.48
3:h:108:LEU:HG	3:h:109:ALA:N	2.29	0.48
1:A:266:LYS:HB3	1:A:326:MET:HE1	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:331:ARG:NH1	1:O:259:GLN:HE21	2.12	0.48
1:A:342:GLN:OE1	1:A:342:GLN:N	2.47	0.48
1:A:344:LEU:HD12	1:A:441:ILE:O	2.13	0.48
1:A:501:GLU:CG	1:A:528:ASN:HB3	2.44	0.48
1:A:624:LEU:O	1:A:627:ASP:HB2	2.14	0.48
1:B:266:LYS:HB3	1:B:326:MET:HE1	1.96	0.48
1:B:546:ASP:O	1:B:579:ARG:N	2.47	0.48
1:C:78:LEU:HG	1:C:121:ASP:HB3	1.96	0.48
1:D:349:ILE:HG22	1:D:583:LEU:HD23	1.95	0.48
1:E:78:LEU:HG	1:E:121:ASP:HB3	1.96	0.48
1:E:174:ARG:HG3	1:E:175:LEU:CD2	2.43	0.48
1:E:624:LEU:O	1:E:627:ASP:HB2	2.14	0.48
1:F:351:GLU:HG2	1:F:435:ILE:CG2	2.43	0.48
1:G:342:GLN:N	1:G:342:GLN:OE1	2.47	0.48
1:H:174:ARG:HG3	1:H:175:LEU:CD2	2.43	0.48
1:I:74:TYR:OH	1:I:90:ASN:ND2	2.47	0.48
1:I:259:GLN:HE21	1:J:331:ARG:NH1	2.12	0.48
1:J:349:ILE:CD1	1:J:504:VAL:HG11	2.43	0.48
1:K:349:ILE:HG22	1:K:583:LEU:HD23	1.95	0.48
1:K:629:LEU:CD2	1:L:538:THR:CG2	2.92	0.48
1:L:95:VAL:CG1	1:L:96:LEU:H	2.23	0.48
1:M:153:SER:OG	1:M:154:VAL:N	2.46	0.48
1:O:74:TYR:OH	1:O:90:ASN:ND2	2.47	0.48
1:A:78:LEU:HG	1:A:121:ASP:HB3	1.96	0.47
1:A:401:LEU:HA	1:A:401:LEU:HD13	1.68	0.47
1:B:74:TYR:OH	1:B:90:ASN:ND2	2.47	0.47
1:B:165:MET:N	1:B:165:MET:SD	2.87	0.47
1:C:546:ASP:O	1:C:579:ARG:N	2.47	0.47
1:D:153:SER:OG	1:D:154:VAL:N	2.46	0.47
1:D:158:GLU:HB3	1:D:162:VAL:HG12	1.94	0.47
1:D:490:ILE:O	1:D:490:ILE:HG13	2.12	0.47
1:F:74:TYR:OH	1:F:90:ASN:ND2	2.47	0.47
1:H:364:TRP:N	1:H:372:THR:OG1	2.42	0.47
1:H:522:PHE:O	1:H:524:THR:HG23	2.13	0.47
1:I:174:ARG:HG3	1:I:175:LEU:CD2	2.43	0.47
1:J:74:TYR:OH	1:J:90:ASN:ND2	2.47	0.47
1:K:546:ASP:O	1:K:579:ARG:N	2.47	0.47
1:L:501:GLU:CG	1:L:528:ASN:HB3	2.44	0.47
1:M:74:TYR:OH	1:M:90:ASN:ND2	2.47	0.47
1:N:266:LYS:HB3	1:N:326:MET:HE1	1.96	0.47
1:O:266:LYS:HB3	1:O:326:MET:HE1	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:344:LEU:HD12	1:O:441:ILE:O	2.13	0.47
1:O:489:GLN:HB3	1:O:497:LEU:HB2	1.96	0.47
1:O:522:PHE:O	1:O:524:THR:HG23	2.13	0.47
2:P:64:ARG:HH22	2:P:127:ILE:HD13	1.79	0.47
2:S:119:PHE:O	2:S:122:GLN:N	2.43	0.47
2:d:119:PHE:O	2:d:122:GLN:N	2.43	0.47
1:A:103:ASP:OD2	1:A:105:LYS:CG	2.56	0.47
1:A:540:VAL:HG12	1:O:600:SER:OG	2.14	0.47
1:A:546:ASP:O	1:A:579:ARG:N	2.47	0.47
1:B:259:GLN:HE21	1:C:331:ARG:NH1	2.12	0.47
1:C:266:LYS:HB3	1:C:326:MET:HE1	1.96	0.47
1:C:349:ILE:HG22	1:C:583:LEU:HD23	1.95	0.47
1:C:401:LEU:HD13	1:C:401:LEU:HA	1.68	0.47
1:D:546:ASP:O	1:D:579:ARG:N	2.47	0.47
1:E:650:PHE:HZ	2:T:80:VAL:HG13	1.74	0.47
1:F:103:ASP:OD2	1:F:105:LYS:CG	2.56	0.47
1:F:226:ASN:ND2	1:G:210:LEU:O	2.41	0.47
1:G:232:ARG:HH21	1:G:233:THR:HG22	1.78	0.47
1:H:74:TYR:OH	1:H:90:ASN:ND2	2.47	0.47
1:H:643:VAL:CB	2:W:105:LEU:HD21	2.43	0.47
1:I:349:ILE:HG22	1:I:583:LEU:HD23	1.95	0.47
1:J:522:PHE:O	1:J:524:THR:HG23	2.13	0.47
1:K:153:SER:OG	1:K:154:VAL:N	2.46	0.47
1:L:349:ILE:CD1	1:L:504:VAL:HG11	2.44	0.47
1:L:364:TRP:N	1:L:372:THR:OG1	2.42	0.47
1:M:165:MET:N	1:M:165:MET:SD	2.87	0.47
1:M:349:ILE:CD1	1:M:504:VAL:HG11	2.44	0.47
1:M:501:GLU:CG	1:M:528:ASN:HB3	2.44	0.47
1:N:546:ASP:O	1:N:579:ARG:N	2.47	0.47
1:O:165:MET:SD	1:O:165:MET:N	2.87	0.47
2:U:108:ASP:OD1	2:U:109:SER:N	2.47	0.47
2:V:119:PHE:O	2:V:122:GLN:N	2.43	0.47
2:b:108:ASP:OD1	2:b:109:SER:N	2.47	0.47
3:j:108:LEU:HG	3:j:109:ALA:N	2.29	0.47
1:B:348:ILE:HD11	1:B:584:PHE:HB2	1.96	0.47
1:B:459:VAL:O	1:B:475:VAL:CB	2.61	0.47
1:D:74:TYR:OH	1:D:90:ASN:ND2	2.47	0.47
1:D:165:MET:N	1:D:165:MET:SD	2.87	0.47
1:D:348:ILE:HD11	1:D:584:PHE:HB2	1.96	0.47
1:G:489:GLN:HB3	1:G:497:LEU:HB2	1.96	0.47
1:H:266:LYS:HB3	1:H:326:MET:HE1	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:344:LEU:HD12	1:H:441:ILE:O	2.13	0.47
1:H:349:ILE:CD1	1:H:504:VAL:HG11	2.44	0.47
1:I:165:MET:N	1:I:165:MET:SD	2.87	0.47
1:J:158:GLU:OE1	1:K:182:VAL:HG21	2.14	0.47
1:J:174:ARG:HG3	1:J:175:LEU:CD2	2.43	0.47
1:J:232:ARG:NH2	1:K:259:GLN:HB3	2.29	0.47
1:K:174:ARG:HG3	1:K:175:LEU:CD2	2.43	0.47
1:L:174:ARG:HG3	1:L:175:LEU:CD2	2.43	0.47
1:L:401:LEU:HD13	1:L:401:LEU:HA	1.68	0.47
1:M:174:ARG:HG3	1:M:175:LEU:CD2	2.43	0.47
1:M:459:VAL:O	1:M:475:VAL:CB	2.61	0.47
1:N:174:ARG:HG3	1:N:175:LEU:CD2	2.43	0.47
1:N:342:GLN:OE1	1:N:342:GLN:N	2.47	0.47
1:N:344:LEU:HD12	1:N:441:ILE:O	2.13	0.47
1:N:489:GLN:HB3	1:N:497:LEU:HB2	1.96	0.47
1:O:501:GLU:CG	1:O:528:ASN:HB3	2.44	0.47
1:A:489:GLN:HB3	1:A:497:LEU:HB2	1.96	0.47
1:F:153:SER:OG	1:F:154:VAL:N	2.46	0.47
1:F:262:GLN:CB	1:G:331:ARG:NH2	2.77	0.47
1:G:203:VAL:O	1:G:206:LEU:N	2.44	0.47
1:G:259:GLN:HE21	1:H:331:ARG:NH1	2.12	0.47
1:G:351:GLU:HG2	1:G:435:ILE:CG2	2.43	0.47
1:H:342:GLN:OE1	1:H:342:GLN:N	2.47	0.47
1:I:266:LYS:HB3	1:I:326:MET:HE1	1.96	0.47
1:I:342:GLN:OE1	1:I:342:GLN:N	2.47	0.47
1:I:349:ILE:CD1	1:I:504:VAL:HG11	2.43	0.47
1:M:266:LYS:HB3	1:M:326:MET:HE1	1.96	0.47
1:M:342:GLN:OE1	1:M:342:GLN:N	2.47	0.47
1:N:78:LEU:HG	1:N:121:ASP:HB3	1.96	0.47
1:N:199:SER:HA	1:O:324:ASP:HB3	1.95	0.47
1:O:624:LEU:O	1:O:627:ASP:HB2	2.14	0.47
2:Q:64:ARG:HH22	2:Q:127:ILE:HD13	1.79	0.47
2:b:119:PHE:O	2:b:122:GLN:N	2.43	0.47
3:g:108:LEU:HG	3:g:109:ALA:N	2.29	0.47
3:i:100:LEU:HB3	3:i:102:LEU:HD13	1.97	0.47
3:l:108:LEU:HG	3:l:109:ALA:N	2.29	0.47
3:o:108:LEU:HG	3:o:109:ALA:N	2.29	0.47
1:A:109:VAL:HG23	1:A:109:VAL:O	2.15	0.47
1:B:109:VAL:HG23	1:B:109:VAL:O	2.15	0.47
1:C:342:GLN:OE1	1:C:342:GLN:N	2.47	0.47
1:D:501:GLU:CG	1:D:528:ASN:HB3	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:65:TYR:CZ	3:h:113:PRO:HG3	2.50	0.47
1:E:232:ARG:HH21	1:E:233:THR:HG22	1.78	0.47
1:E:259:GLN:NE2	1:F:331:ARG:NH1	2.63	0.47
1:E:546:ASP:O	1:E:579:ARG:N	2.47	0.47
1:F:45:ASN:CB	3:j:108:LEU:CD2	2.46	0.47
1:F:342:GLN:OE1	1:F:342:GLN:N	2.47	0.47
1:F:624:LEU:O	1:F:627:ASP:HB2	2.14	0.47
1:G:153:SER:OG	1:G:154:VAL:N	2.46	0.47
1:G:266:LYS:HB3	1:G:326:MET:HE1	1.96	0.47
1:G:546:ASP:O	1:G:579:ARG:N	2.47	0.47
1:H:453:VAL:O	1:H:481:GLY:HA3	2.15	0.47
1:I:159:PRO:HD3	1:J:137:ASP:OD2	2.15	0.47
1:I:489:GLN:HB3	1:I:497:LEU:HB2	1.96	0.47
1:J:459:VAL:O	1:J:475:VAL:CB	2.61	0.47
1:K:158:GLU:OE2	1:L:133:VAL:HG11	2.15	0.47
1:L:158:GLU:OE2	1:M:133:VAL:HG11	2.14	0.47
1:L:165:MET:N	1:L:165:MET:SD	2.87	0.47
1:L:489:GLN:HB3	1:L:497:LEU:HB2	1.96	0.47
1:L:629:LEU:CD2	1:M:538:THR:HG22	2.44	0.47
1:N:95:VAL:CG1	1:N:96:LEU:H	2.23	0.47
1:O:546:ASP:O	1:O:579:ARG:N	2.47	0.47
2:P:108:ASP:OD1	2:P:109:SER:N	2.47	0.47
2:V:64:ARG:HH22	2:V:127:ILE:HD13	1.79	0.47
2:V:108:ASP:OD1	2:V:109:SER:N	2.47	0.47
3:e:100:LEU:HB3	3:e:102:LEU:HD13	1.97	0.47
1:C:109:VAL:O	1:C:109:VAL:HG23	2.15	0.47
1:D:476:GLU:CG	1:D:477:ARG:N	2.78	0.47
1:E:489:GLN:HB3	1:E:497:LEU:HB2	1.96	0.47
1:F:491:ASN:CG	1:F:492:GLU:N	2.68	0.47
1:G:78:LEU:HG	1:G:121:ASP:HB3	1.96	0.47
1:G:453:VAL:O	1:G:481:GLY:HA3	2.15	0.47
1:H:165:MET:N	1:H:165:MET:SD	2.87	0.47
1:H:650:PHE:HZ	2:W:80:VAL:HG13	1.74	0.47
1:I:459:VAL:O	1:I:475:VAL:CB	2.61	0.47
1:I:477:ARG:NH1	1:J:459:VAL:HG21	2.30	0.47
1:I:624:LEU:O	1:I:627:ASP:HB2	2.14	0.47
1:J:47:ASN:OD1	1:K:65:TYR:CD2	2.68	0.47
1:J:266:LYS:HB3	1:J:326:MET:HE1	1.96	0.47
1:J:342:GLN:OE1	1:J:342:GLN:N	2.47	0.47
1:K:165:MET:N	1:K:165:MET:SD	2.87	0.47
1:K:342:GLN:OE1	1:K:342:GLN:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:503:GLU:HB3	1:K:526:THR:HG22	1.97	0.47
1:L:453:VAL:O	1:L:481:GLY:HA3	2.15	0.47
1:M:95:VAL:CG1	1:M:96:LEU:H	2.23	0.47
1:M:489:GLN:HB3	1:M:497:LEU:HB2	1.96	0.47
1:N:82:ASP:CG	1:N:168:ARG:HH12	2.23	0.47
1:N:153:SER:OG	1:N:154:VAL:N	2.46	0.47
2:V:45:LEU:HD21	2:V:97:ASN:HD21	1.80	0.47
3:e:108:LEU:HG	3:e:109:ALA:N	2.29	0.47
3:m:108:LEU:HG	3:m:109:ALA:N	2.29	0.47
1:A:95:VAL:CG1	1:A:96:LEU:H	2.23	0.47
1:A:476:GLU:CG	1:A:477:ARG:N	2.78	0.47
1:B:45:ASN:ND2	3:g:108:LEU:HD21	2.30	0.47
1:B:78:LEU:HG	1:B:121:ASP:HB3	1.96	0.47
1:B:342:GLN:OE1	1:B:342:GLN:N	2.47	0.47
1:B:349:ILE:CD1	1:B:504:VAL:HG11	2.44	0.47
1:B:501:GLU:CG	1:B:528:ASN:HB3	2.44	0.47
1:C:501:GLU:CG	1:C:528:ASN:HB3	2.44	0.47
1:D:266:LYS:HB3	1:D:326:MET:HE1	1.96	0.47
1:D:460:LEU:O	1:D:518:LEU:HD21	2.15	0.47
1:E:459:VAL:O	1:E:475:VAL:CB	2.61	0.47
1:E:460:LEU:O	1:E:518:LEU:HD21	2.15	0.47
1:E:490:ILE:HG13	1:E:490:ILE:O	2.12	0.47
1:E:621:GLU:HG2	1:F:436:LEU:HD11	1.96	0.47
1:F:165:MET:N	1:F:165:MET:SD	2.87	0.47
1:F:453:VAL:O	1:F:481:GLY:HA3	2.15	0.47
1:F:503:GLU:HB3	1:F:526:THR:HG22	1.97	0.47
1:G:503:GLU:HB3	1:G:526:THR:HG22	1.97	0.47
1:H:351:GLU:HG2	1:H:435:ILE:CG2	2.43	0.47
1:H:503:GLU:HB3	1:H:526:THR:HG22	1.97	0.47
1:I:453:VAL:O	1:I:481:GLY:HA3	2.15	0.47
1:I:501:GLU:CG	1:I:528:ASN:HB3	2.44	0.47
1:J:82:ASP:CG	1:J:168:ARG:HH12	2.23	0.47
1:J:165:MET:SD	1:J:165:MET:N	2.87	0.47
1:J:228:VAL:HG22	1:K:210:LEU:HD13	1.96	0.47
1:J:501:GLU:CG	1:J:528:ASN:HB3	2.44	0.47
1:J:503:GLU:HB3	1:J:526:THR:HG22	1.97	0.47
1:J:624:LEU:O	1:J:627:ASP:HB2	2.14	0.47
1:K:74:TYR:OH	1:K:90:ASN:ND2	2.47	0.47
1:K:82:ASP:CG	1:K:168:ARG:HH12	2.23	0.47
1:K:490:ILE:HG13	1:K:490:ILE:O	2.12	0.47
1:L:78:LEU:HG	1:L:121:ASP:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:477:ARG:NH1	1:M:459:VAL:HG21	2.30	0.47
1:L:503:GLU:HB3	1:L:526:THR:HG22	1.97	0.47
1:M:82:ASP:CG	1:M:168:ARG:HH12	2.23	0.47
1:M:453:VAL:O	1:M:481:GLY:HA3	2.15	0.47
1:N:74:TYR:OH	1:N:90:ASN:ND2	2.47	0.47
1:N:476:GLU:CG	1:N:477:ARG:N	2.78	0.47
1:N:624:LEU:O	1:N:627:ASP:HB2	2.14	0.47
1:O:45:ASN:ND2	3:s:108:LEU:HD21	2.30	0.47
1:O:78:LEU:HG	1:O:121:ASP:HB3	1.96	0.47
1:O:109:VAL:HG23	1:O:109:VAL:O	2.15	0.47
1:O:342:GLN:N	1:O:342:GLN:OE1	2.47	0.47
2:S:64:ARG:HH22	2:S:127:ILE:HD13	1.79	0.47
3:p:108:LEU:HG	3:p:109:ALA:N	2.29	0.47
3:r:108:LEU:HG	3:r:109:ALA:N	2.29	0.47
3:s:100:LEU:HB3	3:s:102:LEU:HD13	1.97	0.47
1:A:349:ILE:CD1	1:A:504:VAL:HG11	2.44	0.47
1:A:484:LEU:CD2	1:A:502:GLN:HB3	2.45	0.47
1:B:476:GLU:CG	1:B:477:ARG:N	2.78	0.47
1:C:453:VAL:O	1:C:481:GLY:HA3	2.15	0.47
1:C:484:LEU:CD2	1:C:502:GLN:HB3	2.45	0.47
1:D:45:ASN:ND2	3:h:108:LEU:HD21	2.30	0.47
1:F:266:LYS:HB3	1:F:326:MET:HE1	1.96	0.47
1:F:460:LEU:O	1:F:518:LEU:HD21	2.15	0.47
1:F:476:GLU:CG	1:F:477:ARG:N	2.78	0.47
1:G:228:VAL:HG22	1:H:210:LEU:HD13	1.96	0.47
1:I:503:GLU:HB3	1:I:526:THR:HG22	1.97	0.47
1:J:349:ILE:HG22	1:J:583:LEU:HD23	1.95	0.47
1:J:453:VAL:O	1:J:481:GLY:HA3	2.15	0.47
1:J:477:ARG:NH1	1:K:459:VAL:HG21	2.30	0.47
1:L:82:ASP:CG	1:L:168:ARG:HH12	2.23	0.47
1:L:348:ILE:HD11	1:L:584:PHE:HB2	1.96	0.47
1:L:546:ASP:O	1:L:579:ARG:N	2.47	0.47
1:N:109:VAL:O	1:N:109:VAL:HG23	2.15	0.47
1:N:460:LEU:O	1:N:518:LEU:HD21	2.15	0.47
1:N:643:VAL:HG21	2:c:105:LEU:CD2	2.41	0.47
1:O:82:ASP:CG	1:O:168:ARG:HH12	2.23	0.47
2:S:120:ASN:O	2:S:120:ASN:OD1	2.33	0.47
2:T:120:ASN:OD1	2:T:120:ASN:O	2.33	0.47
2:U:64:ARG:HH22	2:U:127:ILE:HD13	1.79	0.47
2:U:119:PHE:O	2:U:122:GLN:N	2.43	0.47
2:a:64:ARG:HH22	2:a:127:ILE:HD13	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:538:THR:HG22	1:O:629:LEU:CD2	2.44	0.47
1:B:159:PRO:HD3	1:C:137:ASP:OD2	2.15	0.47
1:B:489:GLN:HB3	1:B:497:LEU:HB2	1.96	0.47
1:B:600:SER:OG	1:C:540:VAL:HG12	2.15	0.47
1:C:74:TYR:OH	1:C:90:ASN:ND2	2.47	0.47
1:C:95:VAL:CG1	1:C:96:LEU:H	2.23	0.47
1:C:459:VAL:O	1:C:475:VAL:CB	2.61	0.47
1:D:109:VAL:HG23	1:D:109:VAL:O	2.15	0.47
1:D:453:VAL:O	1:D:481:GLY:HA3	2.15	0.47
1:E:103:ASP:OD2	1:E:105:LYS:CG	2.56	0.47
1:E:503:GLU:HB3	1:E:526:THR:HG22	1.97	0.47
1:F:158:GLU:OE1	1:G:182:VAL:HG21	2.14	0.47
1:F:489:GLN:HB3	1:F:497:LEU:HB2	1.96	0.47
1:F:546:ASP:O	1:F:579:ARG:N	2.47	0.47
1:G:159:PRO:HD3	1:H:137:ASP:OD2	2.15	0.47
1:H:629:LEU:CD2	1:I:538:THR:CG2	2.93	0.47
1:K:489:GLN:HB3	1:K:497:LEU:HB2	1.96	0.47
1:M:159:PRO:HD3	1:N:137:ASP:OD2	2.15	0.47
1:M:503:GLU:HB3	1:M:526:THR:HG22	1.97	0.47
1:O:460:LEU:O	1:O:518:LEU:HD21	2.15	0.47
2:P:120:ASN:OD1	2:P:120:ASN:O	2.33	0.47
2:U:120:ASN:OD1	2:U:120:ASN:O	2.33	0.47
3:g:100:LEU:HB3	3:g:102:LEU:HD13	1.97	0.47
1:A:460:LEU:HG	1:A:475:VAL:CG1	2.45	0.47
1:C:45:ASN:CB	3:e:108:LEU:CD2	2.46	0.47
1:C:65:TYR:CZ	3:g:113:PRO:HG3	2.50	0.47
1:C:460:LEU:O	1:C:518:LEU:HD21	2.15	0.47
1:D:44:LYS:HZ1	3:h:128:SER:CB	2.28	0.47
1:D:78:LEU:HG	1:D:121:ASP:HB3	1.96	0.47
1:D:95:VAL:CG1	1:D:96:LEU:H	2.23	0.47
1:E:262:GLN:N	1:F:331:ARG:HH22	2.04	0.47
1:F:348:ILE:HD11	1:F:584:PHE:HB2	1.96	0.47
1:G:624:LEU:O	1:G:627:ASP:HB2	2.14	0.47
1:I:33:THR:HG22	3:m:105:ALA:O	2.15	0.47
1:I:348:ILE:HD11	1:I:584:PHE:HB2	1.96	0.47
1:I:351:GLU:HG2	1:I:435:ILE:CG2	2.43	0.47
1:K:453:VAL:O	1:K:481:GLY:HA3	2.15	0.47
1:L:266:LYS:HB3	1:L:326:MET:HE1	1.96	0.47
1:O:348:ILE:HD11	1:O:584:PHE:HB2	1.96	0.47
2:R:120:ASN:OD1	2:R:120:ASN:O	2.33	0.47
2:V:120:ASN:O	2:V:120:ASN:OD1	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:f:100:LEU:HB3	3:f:102:LEU:HD13	1.97	0.47
3:k:100:LEU:HB3	3:k:102:LEU:HD13	1.97	0.47
3:q:108:LEU:HG	3:q:109:ALA:N	2.29	0.47
1:B:460:LEU:HG	1:B:475:VAL:CG1	2.46	0.46
1:C:364:TRP:N	1:C:372:THR:OG1	2.42	0.46
1:D:342:GLN:N	1:D:342:GLN:OE1	2.47	0.46
1:E:342:GLN:OE1	1:E:342:GLN:N	2.47	0.46
1:F:78:LEU:HG	1:F:121:ASP:HB3	1.96	0.46
1:F:621:GLU:HG2	1:G:436:LEU:HD11	1.96	0.46
1:G:74:TYR:OH	1:G:90:ASN:ND2	2.47	0.46
1:H:232:ARG:NH2	1:I:259:GLN:HB3	2.30	0.46
1:I:228:VAL:HG22	1:J:210:LEU:HD13	1.96	0.46
1:I:379:LEU:HD12	1:I:379:LEU:O	2.16	0.46
1:J:33:THR:HG22	3:n:105:ALA:O	2.16	0.46
1:J:78:LEU:HG	1:J:121:ASP:HB3	1.96	0.46
1:J:460:LEU:HG	1:J:475:VAL:CG1	2.45	0.46
1:N:228:VAL:HG22	1:O:210:LEU:HD13	1.97	0.46
1:N:232:ARG:NH2	1:O:259:GLN:HB3	2.29	0.46
1:N:501:GLU:CG	1:N:528:ASN:HB3	2.44	0.46
1:O:364:TRP:N	1:O:372:THR:OG1	2.42	0.46
2:T:105:LEU:HD22	2:T:119:PHE:HZ	1.81	0.46
2:V:105:LEU:HD22	2:V:119:PHE:HZ	1.80	0.46
2:W:120:ASN:OD1	2:W:120:ASN:O	2.33	0.46
1:B:33:THR:HG22	3:g:105:ALA:O	2.16	0.46
1:B:103:ASP:OD2	1:B:105:LYS:CG	2.56	0.46
1:B:262:GLN:N	1:C:331:ARG:HH22	2.08	0.46
1:B:379:LEU:HD12	1:B:379:LEU:O	2.16	0.46
1:B:453:VAL:O	1:B:481:GLY:HA3	2.15	0.46
1:C:476:GLU:CG	1:C:477:ARG:N	2.78	0.46
1:D:379:LEU:O	1:D:379:LEU:HD12	2.16	0.46
1:E:82:ASP:CG	1:E:168:ARG:HH12	2.23	0.46
1:E:484:LEU:CD2	1:E:502:GLN:HB3	2.45	0.46
1:F:484:LEU:CD2	1:F:502:GLN:HB3	2.45	0.46
1:H:78:LEU:HG	1:H:121:ASP:HB3	1.96	0.46
1:H:621:GLU:HG2	1:I:436:LEU:HD11	1.97	0.46
1:H:629:LEU:CD2	1:I:538:THR:HG22	2.45	0.46
1:I:82:ASP:CG	1:I:168:ARG:HH12	2.23	0.46
1:I:109:VAL:HG23	1:I:109:VAL:O	2.15	0.46
1:I:411:ILE:CG2	1:J:372:THR:HG22	2.44	0.46
1:J:212:LYS:HG3	1:J:213:ASP:OD1	2.15	0.46
1:K:266:LYS:HB3	1:K:326:MET:HE1	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:348:ILE:HD11	1:K:584:PHE:HB2	1.96	0.46
1:K:379:LEU:HD12	1:K:379:LEU:O	2.16	0.46
1:L:629:LEU:CD2	1:M:538:THR:CG2	2.93	0.46
1:M:45:ASN:ND2	3:q:108:LEU:HD21	2.30	0.46
1:M:477:ARG:HH11	1:N:459:VAL:HB	1.72	0.46
1:N:484:LEU:CD2	1:N:502:GLN:HB3	2.45	0.46
2:X:120:ASN:OD1	2:X:120:ASN:O	2.33	0.46
2:Y:105:LEU:HD22	2:Y:119:PHE:HZ	1.80	0.46
2:a:105:LEU:HD22	2:a:119:PHE:HZ	1.81	0.46
1:A:460:LEU:O	1:A:518:LEU:HD21	2.15	0.46
1:D:33:THR:HG22	3:h:105:ALA:O	2.15	0.46
1:D:82:ASP:CG	1:D:168:ARG:HH12	2.23	0.46
1:E:109:VAL:HG23	1:E:109:VAL:O	2.15	0.46
1:E:212:LYS:HG3	1:E:213:ASP:OD1	2.15	0.46
1:E:629:LEU:CD2	1:F:538:THR:HG22	2.46	0.46
1:F:203:VAL:O	1:F:207:VAL:HG23	2.16	0.46
1:F:232:ARG:HH21	1:F:233:THR:HG22	1.78	0.46
1:G:212:LYS:HG3	1:G:213:ASP:OD1	2.16	0.46
1:G:379:LEU:HD12	1:G:379:LEU:O	2.16	0.46
1:G:460:LEU:O	1:G:518:LEU:HD21	2.15	0.46
1:H:489:GLN:HB3	1:H:497:LEU:HB2	1.96	0.46
1:H:517:ASP:CG	1:H:518:LEU:N	2.67	0.46
1:H:624:LEU:O	1:H:627:ASP:HB2	2.14	0.46
1:I:78:LEU:HG	1:I:121:ASP:HB3	1.96	0.46
1:I:158:GLU:CG	1:I:159:PRO:HD2	2.46	0.46
1:J:109:VAL:HG23	1:J:109:VAL:O	2.15	0.46
1:J:351:GLU:HG2	1:J:435:ILE:CG2	2.43	0.46
1:J:460:LEU:O	1:J:518:LEU:HD21	2.15	0.46
1:K:262:GLN:N	1:L:331:ARG:HH22	2.09	0.46
1:K:624:LEU:O	1:K:627:ASP:HB2	2.14	0.46
1:L:342:GLN:N	1:L:342:GLN:OE1	2.47	0.46
1:M:460:LEU:O	1:M:518:LEU:HD21	2.15	0.46
1:M:546:ASP:O	1:M:579:ARG:N	2.47	0.46
1:M:624:LEU:O	1:M:627:ASP:HB2	2.14	0.46
1:M:629:LEU:HD21	1:N:538:THR:HG22	1.97	0.46
1:N:212:LYS:HG3	1:N:213:ASP:OD1	2.16	0.46
1:N:379:LEU:HD12	1:N:379:LEU:O	2.15	0.46
1:O:33:THR:HG22	3:s:105:ALA:O	2.15	0.46
1:O:212:LYS:HG3	1:O:213:ASP:OD1	2.16	0.46
2:Q:120:ASN:O	2:Q:120:ASN:OD1	2.33	0.46
2:X:64:ARG:HH22	2:X:127:ILE:HD13	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:k:108:LEU:HG	3:k:109:ALA:N	2.29	0.46
3:q:100:LEU:HB3	3:q:102:LEU:HD13	1.97	0.46
1:A:137:ASP:OD2	1:O:159:PRO:HD3	2.15	0.46
1:B:82:ASP:CG	1:B:168:ARG:HH12	2.23	0.46
1:B:203:VAL:O	1:B:206:LEU:N	2.44	0.46
1:B:484:LEU:CD2	1:B:502:GLN:HB3	2.45	0.46
1:C:82:ASP:CG	1:C:168:ARG:HH12	2.23	0.46
1:C:226:ASN:ND2	1:D:210:LEU:O	2.42	0.46
1:C:489:GLN:HB3	1:C:497:LEU:HB2	1.96	0.46
1:D:484:LEU:CD2	1:D:502:GLN:HB3	2.45	0.46
1:E:453:VAL:O	1:E:481:GLY:HA3	2.15	0.46
1:F:332:VAL:O	1:F:336:LEU:HD23	2.16	0.46
1:F:562:ILE:HG22	1:F:565:ILE:H	1.81	0.46
1:G:95:VAL:CG1	1:G:96:LEU:H	2.23	0.46
1:G:332:VAL:O	1:G:336:LEU:HD23	2.16	0.46
1:H:348:ILE:HD11	1:H:584:PHE:HB2	1.96	0.46
1:H:477:ARG:NH1	1:I:459:VAL:HG21	2.30	0.46
1:H:546:ASP:O	1:H:579:ARG:N	2.47	0.46
1:I:460:LEU:HG	1:I:475:VAL:CG1	2.45	0.46
1:I:460:LEU:O	1:I:518:LEU:HD21	2.15	0.46
1:I:486:VAL:CG1	1:I:500:ILE:HG22	2.46	0.46
1:J:259:GLN:NE2	1:K:331:ARG:NH1	2.63	0.46
1:K:460:LEU:HG	1:K:475:VAL:CG1	2.45	0.46
1:L:203:VAL:O	1:L:207:VAL:HG23	2.16	0.46
1:L:379:LEU:O	1:L:379:LEU:HD12	2.16	0.46
1:M:109:VAL:HG23	1:M:109:VAL:O	2.15	0.46
1:N:453:VAL:O	1:N:481:GLY:HA3	2.15	0.46
1:N:503:GLU:HB3	1:N:526:THR:HG22	1.97	0.46
1:O:650:PHE:HZ	2:d:80:VAL:HG13	1.74	0.46
2:R:105:LEU:HD22	2:R:119:PHE:HZ	1.81	0.46
2:U:105:LEU:HD22	2:U:119:PHE:HZ	1.81	0.46
2:Y:120:ASN:O	2:Y:120:ASN:OD1	2.33	0.46
3:j:100:LEU:HB3	3:j:102:LEU:HD13	1.97	0.46
1:A:45:ASN:ND2	3:f:108:LEU:HD21	2.30	0.46
1:D:103:ASP:OD2	1:D:105:LYS:CG	2.56	0.46
1:D:353:GLN:HE21	1:D:579:ARG:CZ	2.29	0.46
1:D:503:GLU:HB3	1:D:526:THR:HG22	1.97	0.46
1:D:628:LEU:HB3	1:E:538:THR:HG1	1.74	0.46
1:E:203:VAL:O	1:E:207:VAL:HG23	2.16	0.46
1:E:266:LYS:HB3	1:E:326:MET:HE1	1.96	0.46
1:E:332:VAL:O	1:E:336:LEU:HD23	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:353:GLN:HE21	1:E:579:ARG:CZ	2.29	0.46
1:E:364:TRP:N	1:E:372:THR:OG1	2.42	0.46
1:E:501:GLU:CG	1:E:528:ASN:HB3	2.44	0.46
1:E:629:LEU:CD2	1:F:538:THR:CG2	2.93	0.46
1:F:45:ASN:ND2	3:j:108:LEU:HD21	2.30	0.46
1:F:353:GLN:HE21	1:F:579:ARG:CZ	2.29	0.46
1:G:486:VAL:CG1	1:G:500:ILE:HG22	2.46	0.46
1:G:562:ILE:HG22	1:G:565:ILE:H	1.81	0.46
1:H:158:GLU:CG	1:H:159:PRO:HD2	2.46	0.46
1:H:212:LYS:HG3	1:H:213:ASP:OD1	2.16	0.46
1:I:546:ASP:O	1:I:579:ARG:N	2.47	0.46
1:K:501:GLU:CG	1:K:528:ASN:HB3	2.44	0.46
1:L:212:LYS:HG3	1:L:213:ASP:OD1	2.15	0.46
1:L:460:LEU:O	1:L:518:LEU:HD21	2.15	0.46
1:L:562:ILE:HG22	1:L:565:ILE:H	1.81	0.46
1:O:460:LEU:HG	1:O:475:VAL:CG1	2.45	0.46
1:O:484:LEU:CD2	1:O:502:GLN:HB3	2.45	0.46
2:U:45:LEU:HD21	2:U:97:ASN:HD21	1.80	0.46
2:X:105:LEU:HD22	2:X:119:PHE:HZ	1.81	0.46
2:b:76:ALA:HB1	2:b:130:LEU:HD12	1.88	0.46
1:A:158:GLU:CG	1:A:159:PRO:HD2	2.46	0.46
1:B:460:LEU:O	1:B:518:LEU:HD21	2.15	0.46
1:C:159:PRO:HD3	1:D:137:ASP:OD2	2.16	0.46
1:D:486:VAL:CG1	1:D:500:ILE:HG22	2.46	0.46
1:D:489:GLN:HB3	1:D:497:LEU:HB2	1.96	0.46
1:E:460:LEU:HG	1:E:475:VAL:CG1	2.45	0.46
1:E:562:ILE:HG22	1:E:565:ILE:H	1.81	0.46
1:E:600:SER:OG	1:F:540:VAL:HG12	2.16	0.46
1:F:82:ASP:CG	1:F:168:ARG:HH12	2.23	0.46
1:G:348:ILE:HD11	1:G:584:PHE:HB2	1.96	0.46
1:H:33:THR:HG22	3:l:105:ALA:O	2.16	0.46
1:H:501:GLU:CG	1:H:528:ASN:HB3	2.44	0.46
1:I:212:LYS:HG3	1:I:213:ASP:OD1	2.16	0.46
1:I:484:LEU:CD2	1:I:502:GLN:HB3	2.45	0.46
1:J:348:ILE:HD11	1:J:584:PHE:HB2	1.96	0.46
1:J:546:ASP:O	1:J:579:ARG:N	2.47	0.46
1:K:203:VAL:O	1:K:207:VAL:HG23	2.16	0.46
1:K:351:GLU:HG2	1:K:435:ILE:CG2	2.43	0.46
1:K:484:LEU:CD2	1:K:502:GLN:HB3	2.45	0.46
1:M:348:ILE:HD11	1:M:584:PHE:HB2	1.96	0.46
1:M:353:GLN:HE21	1:M:579:ARG:CZ	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:353:GLN:HE21	1:N:579:ARG:CZ	2.29	0.46
1:O:453:VAL:O	1:O:481:GLY:HA3	2.15	0.46
2:W:105:LEU:HD22	2:W:119:PHE:HZ	1.81	0.46
2:d:105:LEU:HD22	2:d:119:PHE:HZ	1.81	0.46
3:l:100:LEU:HB3	3:l:102:LEU:HD13	1.97	0.46
1:A:82:ASP:CG	1:A:168:ARG:HH12	2.23	0.46
1:A:195:LEU:HD12	1:A:195:LEU:HA	1.71	0.46
1:A:379:LEU:O	1:A:379:LEU:HD12	2.16	0.46
1:A:453:VAL:O	1:A:481:GLY:HA3	2.15	0.46
1:A:629:LEU:CD2	1:B:538:THR:HG22	2.45	0.46
1:B:562:ILE:HG22	1:B:565:ILE:H	1.81	0.46
1:C:460:LEU:HG	1:C:475:VAL:CG1	2.45	0.46
1:E:348:ILE:HD11	1:E:584:PHE:HB2	1.96	0.46
1:G:203:VAL:O	1:G:207:VAL:HG23	2.16	0.46
1:G:501:GLU:CG	1:G:528:ASN:HB3	2.44	0.46
1:H:109:VAL:HG23	1:H:109:VAL:O	2.15	0.46
1:H:332:VAL:O	1:H:336:LEU:HD23	2.16	0.46
1:H:484:LEU:CD2	1:H:502:GLN:HB3	2.45	0.46
1:J:332:VAL:O	1:J:336:LEU:HD23	2.16	0.46
1:J:476:GLU:CG	1:J:477:ARG:N	2.78	0.46
1:K:33:THR:HG22	3:o:105:ALA:O	2.16	0.46
1:K:45:ASN:ND2	3:o:108:LEU:HD21	2.30	0.46
1:K:353:GLN:HE21	1:K:579:ARG:CZ	2.29	0.46
1:K:460:LEU:O	1:K:518:LEU:HD21	2.15	0.46
1:K:517:ASP:CG	1:K:518:LEU:N	2.67	0.46
1:L:484:LEU:CD2	1:L:502:GLN:HB3	2.45	0.46
1:L:624:LEU:O	1:L:627:ASP:HB2	2.14	0.46
1:M:78:LEU:HG	1:M:121:ASP:HB3	1.96	0.46
1:M:212:LYS:HG3	1:M:213:ASP:OD1	2.16	0.46
1:N:45:ASN:ND2	3:r:108:LEU:HD21	2.30	0.46
1:O:562:ILE:HG22	1:O:565:ILE:H	1.81	0.46
2:P:105:LEU:HD22	2:P:119:PHE:HZ	1.81	0.46
2:Z:45:LEU:HD21	2:Z:97:ASN:HD21	1.80	0.46
3:h:100:LEU:HB3	3:h:102:LEU:HD13	1.97	0.46
3:m:100:LEU:HB3	3:m:102:LEU:HD13	1.97	0.46
1:C:45:ASN:ND2	3:e:108:LEU:HD21	2.30	0.46
1:C:353:GLN:HE21	1:C:579:ARG:CZ	2.29	0.46
1:C:562:ILE:HG22	1:C:565:ILE:H	1.81	0.46
1:D:212:LYS:HG3	1:D:213:ASP:OD1	2.15	0.46
1:D:332:VAL:O	1:D:336:LEU:HD23	2.16	0.46
1:E:379:LEU:HD12	1:E:379:LEU:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:109:VAL:O	1:F:109:VAL:HG23	2.15	0.46
1:F:212:LYS:HG3	1:F:213:ASP:OD1	2.16	0.46
1:F:460:LEU:HG	1:F:475:VAL:CG1	2.45	0.46
1:F:486:VAL:CG1	1:F:500:ILE:HG22	2.46	0.46
1:G:353:GLN:HE21	1:G:579:ARG:CZ	2.29	0.46
1:G:459:VAL:O	1:G:475:VAL:CB	2.61	0.46
1:J:353:GLN:HE21	1:J:579:ARG:CZ	2.29	0.46
1:J:562:ILE:HG22	1:J:565:ILE:H	1.81	0.46
1:M:379:LEU:HD12	1:M:379:LEU:O	2.16	0.46
1:M:460:LEU:HG	1:M:475:VAL:CG1	2.45	0.46
1:M:477:ARG:NH1	1:N:459:VAL:HG21	2.31	0.46
1:O:353:GLN:HE21	1:O:579:ARG:CZ	2.29	0.46
2:Z:120:ASN:OD1	2:Z:120:ASN:O	2.33	0.46
2:c:105:LEU:HD22	2:c:119:PHE:HZ	1.80	0.46
2:d:120:ASN:OD1	2:d:120:ASN:O	2.33	0.46
3:r:100:LEU:HB3	3:r:102:LEU:HD13	1.97	0.46
1:C:103:ASP:OD2	1:C:105:LYS:CG	2.56	0.46
1:C:203:VAL:O	1:C:206:LEU:N	2.44	0.46
1:C:503:GLU:HB3	1:C:526:THR:HG22	1.97	0.46
1:C:603:GLN:OE1	1:D:582:MET:HE1	2.16	0.46
1:D:199:SER:HA	1:E:324:ASP:HB3	1.98	0.46
1:F:379:LEU:HD12	1:F:379:LEU:O	2.16	0.46
1:H:353:GLN:HE21	1:H:579:ARG:CZ	2.29	0.46
1:H:460:LEU:O	1:H:518:LEU:HD21	2.15	0.46
1:H:486:VAL:CG1	1:H:500:ILE:HG22	2.46	0.46
1:J:119:GLU:O	1:J:169:ALA:HB3	2.16	0.46
1:J:158:GLU:CG	1:J:159:PRO:HD2	2.46	0.46
1:J:203:VAL:O	1:J:206:LEU:N	2.44	0.46
1:J:489:GLN:HB3	1:J:497:LEU:HB2	1.96	0.46
1:K:212:LYS:HG3	1:K:213:ASP:OD1	2.16	0.46
1:K:476:GLU:CG	1:K:477:ARG:N	2.78	0.46
1:M:484:LEU:CD2	1:M:502:GLN:HB3	2.45	0.46
1:N:33:THR:HG22	3:r:105:ALA:O	2.16	0.46
1:N:262:GLN:CB	1:O:331:ARG:NH2	2.78	0.46
1:N:621:GLU:CD	1:O:436:LEU:HD11	2.41	0.46
1:O:119:GLU:O	1:O:169:ALA:HB3	2.16	0.46
1:O:503:GLU:HB3	1:O:526:THR:HG22	1.97	0.46
2:S:64:ARG:NH2	2:S:127:ILE:HD13	2.31	0.46
2:S:105:LEU:HD22	2:S:119:PHE:HZ	1.80	0.46
3:o:100:LEU:HB3	3:o:102:LEU:HD13	1.97	0.46
1:A:33:THR:HG22	3:f:105:ALA:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:203:VAL:O	1:A:206:LEU:N	2.44	0.46
1:A:459:VAL:O	1:A:475:VAL:CB	2.61	0.46
1:C:119:GLU:O	1:C:169:ALA:HB3	2.16	0.46
1:C:212:LYS:HG3	1:C:213:ASP:OD1	2.16	0.46
1:C:348:ILE:HD11	1:C:584:PHE:HB2	1.96	0.46
1:E:45:ASN:ND2	3:i:108:LEU:HD21	2.30	0.46
1:E:119:GLU:O	1:E:169:ALA:HB3	2.16	0.46
1:E:486:VAL:CG1	1:E:500:ILE:HG22	2.46	0.46
1:G:82:ASP:CG	1:G:168:ARG:HH12	2.23	0.46
1:G:158:GLU:CG	1:G:159:PRO:HD2	2.46	0.46
1:H:203:VAL:O	1:H:207:VAL:HG23	2.16	0.46
1:H:562:ILE:HG22	1:H:565:ILE:H	1.81	0.46
1:H:604:TYR:O	1:H:607:PHE:HB3	2.16	0.46
1:K:48:LYS:HB3	1:K:95:VAL:CG1	2.41	0.46
1:K:486:VAL:CG1	1:K:500:ILE:HG22	2.46	0.46
1:L:109:VAL:HG23	1:L:109:VAL:O	2.15	0.46
1:L:353:GLN:HE21	1:L:579:ARG:CZ	2.29	0.46
1:L:460:LEU:HG	1:L:475:VAL:CG1	2.45	0.46
1:M:119:GLU:O	1:M:169:ALA:HB3	2.16	0.46
1:M:158:GLU:CG	1:M:159:PRO:HD2	2.46	0.46
1:M:203:VAL:O	1:M:207:VAL:HG23	2.16	0.46
1:N:348:ILE:HD11	1:N:584:PHE:HB2	1.96	0.46
1:O:379:LEU:HD12	1:O:379:LEU:O	2.16	0.46
2:T:64:ARG:NH2	2:T:127:ILE:HD13	2.31	0.46
2:T:119:PHE:O	2:T:122:GLN:N	2.43	0.46
2:V:64:ARG:NH2	2:V:127:ILE:HD13	2.31	0.46
2:W:64:ARG:NH2	2:W:127:ILE:HD13	2.31	0.46
1:A:212:LYS:HG3	1:A:213:ASP:OD1	2.16	0.45
1:A:459:VAL:HB	1:O:477:ARG:HH11	1.70	0.45
1:A:503:GLU:HB3	1:A:526:THR:HG22	1.97	0.45
1:C:33:THR:HG22	3:e:105:ALA:O	2.16	0.45
1:C:158:GLU:CG	1:C:159:PRO:HD2	2.46	0.45
1:C:203:VAL:O	1:C:207:VAL:HG23	2.16	0.45
1:E:33:THR:HG22	3:i:105:ALA:O	2.16	0.45
1:E:108:ALA:C	1:E:109:VAL:HG13	2.42	0.45
1:E:491:ASN:CG	1:E:492:GLU:N	2.69	0.45
1:F:33:THR:HG22	3:j:105:ALA:O	2.15	0.45
1:G:119:GLU:O	1:G:169:ALA:HB3	2.16	0.45
1:G:262:GLN:N	1:H:331:ARG:HH22	2.05	0.45
1:G:460:LEU:HG	1:G:475:VAL:CG1	2.45	0.45
1:G:604:TYR:O	1:G:607:PHE:HB3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:65:TYR:CZ	3:k:113:PRO:CB	2.99	0.45
1:H:119:GLU:O	1:H:169:ALA:HB3	2.16	0.45
1:I:332:VAL:O	1:I:336:LEU:HD23	2.16	0.45
1:I:475:VAL:CG2	1:J:518:LEU:CD2	2.91	0.45
1:I:604:TYR:O	1:I:607:PHE:HB3	2.16	0.45
1:J:45:ASN:ND2	3:n:108:LEU:HD21	2.30	0.45
1:J:203:VAL:O	1:J:207:VAL:HG23	2.16	0.45
1:K:460:LEU:HB2	1:K:518:LEU:HG	1.98	0.45
1:L:351:GLU:HG2	1:L:435:ILE:CG2	2.43	0.45
1:L:459:VAL:O	1:L:475:VAL:CB	2.61	0.45
1:M:262:GLN:CB	1:N:331:ARG:NH2	2.78	0.45
1:M:332:VAL:O	1:M:336:LEU:HD23	2.16	0.45
1:N:158:GLU:CG	1:N:159:PRO:HD2	2.46	0.45
1:N:491:ASN:CG	1:N:492:GLU:N	2.69	0.45
1:N:562:ILE:HG22	1:N:565:ILE:H	1.81	0.45
1:O:486:VAL:CG1	1:O:500:ILE:HG22	2.46	0.45
2:U:64:ARG:NH2	2:U:127:ILE:HD13	2.31	0.45
2:a:120:ASN:O	2:a:120:ASN:OD1	2.33	0.45
2:c:120:ASN:OD1	2:c:120:ASN:O	2.33	0.45
1:A:108:ALA:C	1:A:109:VAL:HG13	2.42	0.45
1:A:348:ILE:HD11	1:A:584:PHE:HB2	1.96	0.45
1:A:486:VAL:CG1	1:A:500:ILE:HG22	2.46	0.45
1:A:621:GLU:HG2	1:B:436:LEU:HD11	1.97	0.45
1:B:503:GLU:HB3	1:B:526:THR:HG22	1.97	0.45
1:C:332:VAL:O	1:C:336:LEU:HD23	2.16	0.45
1:C:360:LEU:HD12	1:C:425:THR:O	2.17	0.45
1:C:379:LEU:HD12	1:C:379:LEU:O	2.16	0.45
1:D:262:GLN:N	1:E:331:ARG:HH22	2.07	0.45
1:D:460:LEU:HG	1:D:475:VAL:CG1	2.45	0.45
1:F:477:ARG:NH1	1:G:459:VAL:HG21	2.31	0.45
1:F:501:GLU:CG	1:F:528:ASN:HB3	2.44	0.45
1:G:45:ASN:ND2	3:k:108:LEU:HD21	2.30	0.45
1:G:484:LEU:CD2	1:G:502:GLN:HB3	2.45	0.45
1:H:82:ASP:CG	1:H:168:ARG:HH12	2.23	0.45
1:H:459:VAL:O	1:H:475:VAL:CB	2.61	0.45
1:I:45:ASN:ND2	3:m:108:LEU:HD21	2.30	0.45
1:I:353:GLN:HE21	1:I:579:ARG:CZ	2.29	0.45
1:I:548:THR:N	1:I:577:SER:O	2.49	0.45
1:I:562:ILE:HG22	1:I:565:ILE:H	1.81	0.45
1:J:379:LEU:HD12	1:J:379:LEU:O	2.16	0.45
1:J:548:THR:N	1:J:577:SER:O	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:332:VAL:O	1:L:336:LEU:HD23	2.16	0.45
1:M:33:THR:HG22	3:q:105:ALA:O	2.16	0.45
1:N:332:VAL:O	1:N:336:LEU:HD23	2.16	0.45
1:N:477:ARG:NH1	1:O:459:VAL:HG21	2.31	0.45
2:X:64:ARG:NH2	2:X:127:ILE:HD13	2.31	0.45
2:b:54:GLY:CA	2:b:123:LEU:HD11	2.46	0.45
1:A:538:THR:CG2	1:O:629:LEU:CD2	2.94	0.45
1:B:119:GLU:O	1:B:169:ALA:HB3	2.16	0.45
1:B:203:VAL:O	1:B:207:VAL:HG23	2.16	0.45
1:B:360:LEU:HD12	1:B:425:THR:O	2.17	0.45
1:D:159:PRO:HD3	1:E:137:ASP:OD2	2.17	0.45
1:D:203:VAL:O	1:D:207:VAL:HG23	2.16	0.45
1:E:360:LEU:HD12	1:E:425:THR:O	2.17	0.45
1:E:483:LYS:O	1:E:502:GLN:HA	2.17	0.45
1:F:401:LEU:HD13	1:F:401:LEU:HA	1.68	0.45
1:G:109:VAL:HG23	1:G:109:VAL:O	2.15	0.45
1:G:360:LEU:HD12	1:G:425:THR:O	2.17	0.45
1:G:603:GLN:OE1	1:H:582:MET:HE1	2.17	0.45
1:H:108:ALA:C	1:H:109:VAL:HG13	2.42	0.45
1:H:379:LEU:HD12	1:H:379:LEU:O	2.16	0.45
1:H:460:LEU:HG	1:H:475:VAL:CG1	2.45	0.45
1:K:108:ALA:C	1:K:109:VAL:HG13	2.42	0.45
1:K:109:VAL:O	1:K:109:VAL:HG23	2.15	0.45
1:K:332:VAL:O	1:K:336:LEU:HD23	2.16	0.45
1:L:460:LEU:HB2	1:L:518:LEU:HG	1.99	0.45
1:L:486:VAL:CG1	1:L:500:ILE:HG22	2.46	0.45
1:L:604:TYR:O	1:L:607:PHE:HB3	2.16	0.45
1:M:108:ALA:C	1:M:109:VAL:HG13	2.42	0.45
1:M:486:VAL:CG1	1:M:500:ILE:HG22	2.46	0.45
1:N:262:GLN:N	1:O:331:ARG:HH22	2.05	0.45
1:O:158:GLU:CG	1:O:159:PRO:HD2	2.46	0.45
1:O:203:VAL:O	1:O:206:LEU:N	2.44	0.45
1:O:332:VAL:O	1:O:336:LEU:HD23	2.16	0.45
1:O:460:LEU:HB2	1:O:518:LEU:HG	1.99	0.45
2:d:45:LEU:HD21	2:d:97:ASN:HD21	1.80	0.45
3:n:100:LEU:HB3	3:n:102:LEU:HD13	1.97	0.45
1:A:203:VAL:O	1:A:207:VAL:HG23	2.16	0.45
1:A:360:LEU:HD12	1:A:425:THR:O	2.17	0.45
1:B:108:ALA:C	1:B:109:VAL:HG13	2.42	0.45
1:B:212:LYS:HG3	1:B:213:ASP:OD1	2.16	0.45
1:B:353:GLN:HE21	1:B:579:ARG:CZ	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:486:VAL:CG1	1:B:500:ILE:HG22	2.46	0.45
1:B:548:THR:N	1:B:577:SER:O	2.49	0.45
1:C:548:THR:N	1:C:577:SER:O	2.49	0.45
1:C:621:GLU:CD	1:D:436:LEU:HD11	2.41	0.45
1:D:158:GLU:CG	1:D:159:PRO:HD2	2.46	0.45
1:D:360:LEU:HD12	1:D:425:THR:O	2.17	0.45
1:D:562:ILE:HG22	1:D:565:ILE:H	1.81	0.45
1:E:158:GLU:CG	1:E:159:PRO:HD2	2.46	0.45
1:F:483:LYS:O	1:F:502:GLN:HA	2.17	0.45
1:F:604:TYR:O	1:F:607:PHE:HB3	2.16	0.45
1:G:48:LYS:HB3	1:G:95:VAL:CG1	2.41	0.45
1:H:45:ASN:ND2	3:l:108:LEU:HD21	2.30	0.45
1:H:476:GLU:CG	1:H:477:ARG:N	2.78	0.45
1:I:108:ALA:C	1:I:109:VAL:HG13	2.42	0.45
1:I:476:GLU:CG	1:I:477:ARG:N	2.78	0.45
1:J:460:LEU:HB2	1:J:518:LEU:HG	1.99	0.45
1:K:78:LEU:HG	1:K:121:ASP:HB3	1.96	0.45
1:L:119:GLU:O	1:L:169:ALA:HB3	2.16	0.45
1:M:562:ILE:HG22	1:M:565:ILE:H	1.81	0.45
1:N:460:LEU:HB2	1:N:518:LEU:HG	1.99	0.45
1:N:460:LEU:HG	1:N:475:VAL:CG1	2.45	0.45
2:Z:105:LEU:HD22	2:Z:119:PHE:HZ	1.81	0.45
2:b:105:LEU:HD22	2:b:119:PHE:HZ	1.81	0.45
2:b:120:ASN:OD1	2:b:120:ASN:O	2.33	0.45
2:c:64:ARG:NH2	2:c:127:ILE:HD13	2.31	0.45
2:d:54:GLY:CA	2:d:123:LEU:HD11	2.47	0.45
1:A:119:GLU:O	1:A:169:ALA:HB3	2.16	0.45
1:A:158:GLU:OE2	1:B:133:VAL:HG11	2.16	0.45
1:A:460:LEU:HB2	1:A:518:LEU:HG	1.99	0.45
1:A:475:VAL:CG2	1:B:518:LEU:CD2	2.93	0.45
1:B:332:VAL:O	1:B:336:LEU:HD23	2.16	0.45
1:D:262:GLN:CB	1:E:331:ARG:NH2	2.79	0.45
1:D:267:VAL:HB	1:E:335:GLN:OE1	2.15	0.45
1:D:354:ASP:OD1	1:D:578:LYS:HB2	2.17	0.45
1:D:483:LYS:O	1:D:502:GLN:HA	2.17	0.45
1:E:568:LEU:HG	1:E:569:PHE:CD1	2.52	0.45
1:F:48:LYS:HB3	1:F:95:VAL:CG1	2.41	0.45
1:G:33:THR:HG22	3:k:105:ALA:O	2.16	0.45
1:G:483:LYS:O	1:G:502:GLN:HA	2.17	0.45
1:H:262:GLN:CB	1:I:331:ARG:NH2	2.78	0.45
1:I:483:LYS:O	1:I:502:GLN:HA	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:517:ASP:CG	1:I:518:LEU:N	2.67	0.45
1:J:360:LEU:HD12	1:J:425:THR:O	2.17	0.45
1:J:604:TYR:O	1:J:607:PHE:HB3	2.16	0.45
1:K:119:GLU:O	1:K:169:ALA:HB3	2.16	0.45
1:K:158:GLU:CG	1:K:159:PRO:HD2	2.46	0.45
1:K:562:ILE:HG22	1:K:565:ILE:H	1.81	0.45
1:K:568:LEU:HG	1:K:569:PHE:CD1	2.52	0.45
1:L:232:ARG:NH2	1:M:259:GLN:HB3	2.31	0.45
1:M:460:LEU:HB2	1:M:518:LEU:HG	1.99	0.45
1:N:203:VAL:O	1:N:207:VAL:HG23	2.16	0.45
2:Q:119:PHE:O	2:Q:122:GLN:N	2.43	0.45
2:R:45:LEU:HD21	2:R:97:ASN:HD21	1.80	0.45
2:R:64:ARG:NH2	2:R:127:ILE:HD13	2.31	0.45
2:V:54:GLY:CA	2:V:123:LEU:HD11	2.47	0.45
1:A:353:GLN:HE21	1:A:579:ARG:CZ	2.29	0.45
1:A:548:THR:N	1:A:577:SER:O	2.49	0.45
1:B:460:LEU:HB2	1:B:518:LEU:HG	1.99	0.45
1:D:108:ALA:C	1:D:109:VAL:HG13	2.42	0.45
1:D:568:LEU:HG	1:D:569:PHE:CD1	2.52	0.45
1:F:203:VAL:O	1:F:206:LEU:N	2.44	0.45
1:F:360:LEU:HD12	1:F:425:THR:O	2.17	0.45
1:G:477:ARG:NH1	1:H:459:VAL:HG21	2.31	0.45
1:G:629:LEU:HD21	1:H:538:THR:HG22	1.98	0.45
1:K:360:LEU:HD12	1:K:425:THR:O	2.17	0.45
1:L:45:ASN:ND2	3:p:108:LEU:HD21	2.30	0.45
1:L:600:SER:OG	1:M:540:VAL:HG12	2.16	0.45
1:M:411:ILE:HG12	1:N:556:VAL:CG2	2.47	0.45
1:N:108:ALA:C	1:N:109:VAL:HG13	2.42	0.45
1:N:203:VAL:O	1:N:206:LEU:N	2.44	0.45
1:N:486:VAL:CG1	1:N:500:ILE:HG22	2.46	0.45
1:O:491:ASN:CG	1:O:492:GLU:N	2.69	0.45
1:O:604:TYR:O	1:O:607:PHE:HB3	2.16	0.45
2:Q:54:GLY:CA	2:Q:123:LEU:HD11	2.46	0.45
2:c:54:GLY:CA	2:c:123:LEU:HD11	2.47	0.45
3:p:100:LEU:HB3	3:p:102:LEU:HD13	1.97	0.45
1:A:332:VAL:O	1:A:336:LEU:HD23	2.16	0.45
1:A:604:TYR:O	1:A:607:PHE:HB3	2.16	0.45
1:B:158:GLU:CG	1:B:159:PRO:HD2	2.46	0.45
1:B:364:TRP:N	1:B:372:THR:OG1	2.42	0.45
1:B:604:TYR:O	1:B:607:PHE:HB3	2.16	0.45
1:C:199:SER:HA	1:D:324:ASP:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:621:GLU:HG2	1:D:436:LEU:HD13	1.98	0.45
1:D:47:ASN:OD1	1:E:65:TYR:CD2	2.70	0.45
1:D:548:THR:N	1:D:577:SER:O	2.49	0.45
1:F:158:GLU:CG	1:F:159:PRO:HD2	2.46	0.45
1:F:354:ASP:OD1	1:F:578:LYS:HB2	2.17	0.45
1:F:611:GLN:HE22	1:F:612:THR:HG22	1.82	0.45
1:H:477:ARG:HH11	1:I:459:VAL:HB	1.73	0.45
1:I:95:VAL:CG1	1:I:96:LEU:H	2.23	0.45
1:I:274:LYS:HG2	1:I:275:ALA:N	2.32	0.45
1:I:364:TRP:N	1:I:372:THR:OG1	2.42	0.45
1:I:460:LEU:HB2	1:I:518:LEU:HG	1.99	0.45
1:I:628:LEU:HB3	1:J:538:THR:HG1	1.73	0.45
1:K:95:VAL:CG1	1:K:96:LEU:H	2.23	0.45
1:K:364:TRP:N	1:K:372:THR:OG1	2.42	0.45
1:K:548:THR:N	1:K:577:SER:O	2.49	0.45
1:L:33:THR:HG22	3:p:105:ALA:O	2.16	0.45
1:L:108:ALA:C	1:L:109:VAL:HG13	2.42	0.45
1:L:262:GLN:N	1:M:331:ARG:HH22	2.09	0.45
1:M:604:TYR:O	1:M:607:PHE:HB3	2.16	0.45
1:N:360:LEU:HD12	1:N:425:THR:O	2.17	0.45
1:N:568:LEU:HG	1:N:569:PHE:CD1	2.52	0.45
1:N:604:TYR:O	1:N:607:PHE:HB3	2.16	0.45
1:O:352:VAL:HG12	1:O:580:ASN:OD1	2.17	0.45
2:T:45:LEU:HD21	2:T:97:ASN:HD21	1.80	0.45
1:A:354:ASP:OD1	1:A:578:LYS:HB2	2.17	0.45
1:B:195:LEU:HA	1:B:195:LEU:HD12	1.71	0.45
1:B:349:ILE:O	1:B:436:LEU:HD12	2.17	0.45
1:C:568:LEU:HG	1:C:569:PHE:CD1	2.52	0.45
1:D:459:VAL:O	1:D:475:VAL:CB	2.61	0.45
1:E:267:VAL:HB	1:F:335:GLN:OE1	2.17	0.45
1:F:232:ARG:NH2	1:G:259:GLN:HB3	2.31	0.45
1:F:475:VAL:CG2	1:G:518:LEU:CD2	2.95	0.45
1:F:548:THR:N	1:F:577:SER:O	2.49	0.45
1:F:568:LEU:HG	1:F:569:PHE:CD1	2.52	0.45
1:G:274:LYS:HG2	1:G:275:ALA:N	2.32	0.45
1:G:354:ASP:OD1	1:G:578:LYS:HB2	2.17	0.45
1:G:364:TRP:N	1:G:372:THR:OG1	2.42	0.45
1:H:267:VAL:HB	1:I:335:GLN:OE1	2.16	0.45
1:H:352:VAL:HG12	1:H:580:ASN:OD1	2.17	0.45
1:H:354:ASP:OD1	1:H:578:LYS:HB2	2.17	0.45
1:H:360:LEU:HD12	1:H:425:THR:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:483:LYS:O	1:H:502:GLN:HA	2.17	0.45
1:I:119:GLU:O	1:I:169:ALA:HB3	2.16	0.45
1:I:203:VAL:O	1:I:207:VAL:HG23	2.16	0.45
1:J:483:LYS:O	1:J:502:GLN:HA	2.17	0.45
1:J:484:LEU:CD2	1:J:502:GLN:HB3	2.45	0.45
1:L:354:ASP:OD1	1:L:578:LYS:HB2	2.17	0.45
1:N:274:LYS:HG2	1:N:275:ALA:N	2.32	0.45
1:O:48:LYS:HB3	1:O:95:VAL:CG1	2.41	0.45
1:O:360:LEU:HD12	1:O:425:THR:O	2.17	0.45
2:Y:54:GLY:CA	2:Y:123:LEU:HD11	2.46	0.45
1:A:274:LYS:HG2	1:A:275:ALA:N	2.32	0.45
1:C:483:LYS:O	1:C:502:GLN:HA	2.17	0.45
1:D:65:TYR:CZ	3:e:113:PRO:HG3	2.52	0.45
1:D:119:GLU:O	1:D:169:ALA:HB3	2.16	0.45
1:D:346:GLU:OE2	1:D:586:ARG:NH2	2.50	0.45
1:D:611:GLN:HE22	1:D:612:THR:HG22	1.82	0.45
1:E:354:ASP:OD1	1:E:578:LYS:HB2	2.17	0.45
1:E:548:THR:N	1:E:577:SER:O	2.49	0.45
1:E:604:TYR:O	1:E:607:PHE:HB3	2.16	0.45
1:G:108:ALA:C	1:G:109:VAL:HG13	2.42	0.45
1:G:267:VAL:HB	1:H:335:GLN:OE1	2.17	0.45
1:H:274:LYS:HG2	1:H:275:ALA:N	2.32	0.45
1:H:568:LEU:HG	1:H:569:PHE:CD1	2.52	0.45
1:I:45:ASN:ND2	3:m:108:LEU:HD11	2.32	0.45
1:I:352:VAL:HG12	1:I:580:ASN:OD1	2.17	0.45
1:I:354:ASP:OD1	1:I:578:LYS:HB2	2.17	0.45
1:J:346:GLU:OE1	1:J:346:GLU:N	2.50	0.45
1:J:354:ASP:OD1	1:J:578:LYS:HB2	2.17	0.45
1:J:568:LEU:HG	1:J:569:PHE:CD1	2.52	0.45
1:K:352:VAL:HG12	1:K:580:ASN:OD1	2.17	0.45
1:K:477:ARG:HH11	1:L:459:VAL:HB	1.72	0.45
1:K:604:TYR:O	1:K:607:PHE:HB3	2.16	0.45
1:L:346:GLU:OE1	1:L:346:GLU:N	2.50	0.45
1:L:476:GLU:CG	1:L:477:ARG:N	2.78	0.45
1:M:354:ASP:OD1	1:M:578:LYS:HB2	2.17	0.45
1:O:274:LYS:HG2	1:O:275:ALA:N	2.32	0.45
2:P:45:LEU:HD21	2:P:97:ASN:HD21	1.80	0.45
2:U:54:GLY:CA	2:U:123:LEU:HD11	2.46	0.45
2:Z:64:ARG:NH2	2:Z:127:ILE:HD13	2.31	0.45
2:b:64:ARG:NH2	2:b:127:ILE:HD13	2.31	0.45
1:A:611:GLN:HE22	1:A:612:THR:HG22	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:47:ASN:OD1	1:C:65:TYR:CD2	2.70	0.45
1:B:568:LEU:HG	1:B:569:PHE:CD1	2.52	0.45
1:C:108:ALA:C	1:C:109:VAL:HG13	2.42	0.45
1:C:460:LEU:HB2	1:C:518:LEU:HG	1.99	0.45
1:C:486:VAL:CG1	1:C:500:ILE:HG22	2.46	0.45
1:D:45:ASN:ND2	3:h:108:LEU:HD11	2.32	0.45
1:D:108:ALA:O	1:D:109:VAL:CG1	2.65	0.45
1:D:387:GLY:O	1:D:391:TYR:HB2	2.18	0.45
1:F:108:ALA:C	1:F:109:VAL:HG13	2.42	0.45
1:F:274:LYS:HG2	1:F:275:ALA:N	2.32	0.45
1:F:346:GLU:OE2	1:F:586:ARG:NH2	2.50	0.45
1:F:411:ILE:HG12	1:G:556:VAL:CG2	2.47	0.45
1:G:346:GLU:OE1	1:G:346:GLU:N	2.50	0.45
1:G:351:GLU:OE1	1:G:579:ARG:NH1	2.39	0.45
1:G:568:LEU:HG	1:G:569:PHE:CD1	2.52	0.45
1:H:108:ALA:O	1:H:109:VAL:CG1	2.65	0.45
1:H:346:GLU:OE1	1:H:346:GLU:N	2.50	0.45
1:H:457:VAL:O	1:H:478:LYS:HB3	2.17	0.45
1:I:360:LEU:HD12	1:I:425:THR:O	2.17	0.45
1:J:274:LYS:HG2	1:J:275:ALA:N	2.32	0.45
1:J:352:VAL:HG12	1:J:580:ASN:OD1	2.17	0.45
1:J:364:TRP:N	1:J:372:THR:OG1	2.42	0.45
1:J:401:LEU:HA	1:J:401:LEU:HD13	1.68	0.45
1:J:457:VAL:O	1:J:478:LYS:HB3	2.17	0.45
1:J:486:VAL:CG1	1:J:500:ILE:HG22	2.46	0.45
1:J:498:LEU:HB3	1:J:500:ILE:HG23	1.99	0.45
1:K:108:ALA:O	1:K:109:VAL:CG1	2.65	0.45
1:K:159:PRO:HD3	1:L:137:ASP:OD2	2.17	0.45
1:K:346:GLU:N	1:K:346:GLU:OE1	2.50	0.45
1:L:199:SER:HA	1:M:324:ASP:HB3	1.98	0.45
1:O:203:VAL:O	1:O:207:VAL:HG23	2.16	0.45
2:a:64:ARG:NH2	2:a:127:ILE:HD13	2.31	0.45
1:C:457:VAL:O	1:C:478:LYS:HB3	2.17	0.44
1:C:475:VAL:CG2	1:D:518:LEU:CD2	2.95	0.44
1:C:604:TYR:O	1:C:607:PHE:HB3	2.16	0.44
1:D:352:VAL:HG12	1:D:580:ASN:OD1	2.17	0.44
1:E:48:LYS:HB3	1:E:95:VAL:CG1	2.41	0.44
1:E:349:ILE:O	1:E:436:LEU:HD12	2.17	0.44
1:F:47:ASN:OD1	1:G:65:TYR:CD2	2.70	0.44
1:F:119:GLU:O	1:F:169:ALA:HB3	2.16	0.44
1:F:457:VAL:O	1:F:478:LYS:HB3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:517:ASP:CG	1:F:518:LEU:N	2.67	0.44
1:G:108:ALA:O	1:G:109:VAL:CG1	2.65	0.44
1:G:199:SER:HA	1:H:324:ASP:HB3	1.99	0.44
1:G:352:VAL:HG12	1:G:580:ASN:OD1	2.17	0.44
1:G:548:THR:N	1:G:577:SER:O	2.49	0.44
1:H:611:GLN:HE22	1:H:612:THR:HG22	1.82	0.44
1:I:108:ALA:O	1:I:109:VAL:CG1	2.65	0.44
1:J:108:ALA:C	1:J:109:VAL:HG13	2.42	0.44
1:K:401:LEU:HD13	1:K:401:LEU:HA	1.68	0.44
1:K:600:SER:OG	1:L:540:VAL:HG12	2.17	0.44
1:L:352:VAL:HG12	1:L:580:ASN:OD1	2.17	0.44
1:L:498:LEU:HB3	1:L:500:ILE:HG23	1.99	0.44
1:M:387:GLY:O	1:M:391:TYR:HB2	2.18	0.44
1:N:45:ASN:ND2	3:r:108:LEU:HD11	2.32	0.44
1:N:346:GLU:N	1:N:346:GLU:OE1	2.50	0.44
1:N:352:VAL:HG12	1:N:580:ASN:OD1	2.17	0.44
1:O:548:THR:N	1:O:577:SER:O	2.49	0.44
2:P:64:ARG:NH2	2:P:127:ILE:HD13	2.31	0.44
2:Q:45:LEU:HD21	2:Q:97:ASN:HD21	1.80	0.44
2:Q:64:ARG:NH2	2:Q:127:ILE:HD13	2.31	0.44
2:Y:45:LEU:HD21	2:Y:97:ASN:HD21	1.80	0.44
1:A:491:ASN:CG	1:A:492:GLU:N	2.69	0.44
1:B:274:LYS:HG2	1:B:275:ALA:N	2.32	0.44
1:B:387:GLY:O	1:B:391:TYR:HB2	2.18	0.44
1:D:349:ILE:O	1:D:436:LEU:HD12	2.17	0.44
1:D:604:TYR:O	1:D:607:PHE:HB3	2.16	0.44
1:E:45:ASN:ND2	3:i:108:LEU:HD11	2.33	0.44
1:F:346:GLU:N	1:F:346:GLU:OE1	2.50	0.44
1:F:349:ILE:O	1:F:436:LEU:HD12	2.17	0.44
1:G:65:TYR:CZ	3:j:113:PRO:HG3	2.52	0.44
1:H:45:ASN:ND2	3:l:108:LEU:HD11	2.32	0.44
1:H:460:LEU:HB2	1:H:518:LEU:HG	1.99	0.44
1:H:498:LEU:HB3	1:H:500:ILE:HG23	1.99	0.44
1:K:387:GLY:O	1:K:391:TYR:HB2	2.18	0.44
1:L:48:LYS:HB3	1:L:95:VAL:CG1	2.41	0.44
1:L:226:ASN:ND2	1:M:210:LEU:O	2.45	0.44
1:L:568:LEU:HG	1:L:569:PHE:CD1	2.52	0.44
1:M:203:VAL:O	1:M:206:LEU:N	2.44	0.44
1:M:274:LYS:HG2	1:M:275:ALA:N	2.32	0.44
1:O:108:ALA:C	1:O:109:VAL:HG13	2.42	0.44
1:O:401:LEU:HA	1:O:401:LEU:HD13	1.68	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:457:VAL:O	1:O:478:LYS:HB3	2.17	0.44
1:O:568:LEU:HG	1:O:569:PHE:CD1	2.52	0.44
2:R:54:GLY:CA	2:R:123:LEU:HD11	2.46	0.44
2:T:54:GLY:CA	2:T:123:LEU:HD11	2.46	0.44
2:X:54:GLY:CA	2:X:123:LEU:HD11	2.46	0.44
2:d:64:ARG:NH2	2:d:127:ILE:HD13	2.31	0.44
1:A:352:VAL:HG12	1:A:580:ASN:OD1	2.17	0.44
1:A:457:VAL:O	1:A:478:LYS:HB3	2.17	0.44
1:A:562:ILE:HG22	1:A:565:ILE:H	1.81	0.44
1:A:580:ASN:HB2	1:O:607:PHE:HE1	1.82	0.44
1:B:108:ALA:O	1:B:109:VAL:CG1	2.65	0.44
1:B:346:GLU:OE2	1:B:586:ARG:NH2	2.50	0.44
1:C:346:GLU:OE2	1:C:586:ARG:NH2	2.50	0.44
1:C:349:ILE:O	1:C:436:LEU:HD12	2.17	0.44
1:C:354:ASP:OD1	1:C:578:LYS:HB2	2.17	0.44
1:C:611:GLN:HE22	1:C:612:THR:HG22	1.82	0.44
1:E:228:VAL:HG22	1:F:210:LEU:HD13	1.98	0.44
1:F:195:LEU:HD12	1:F:195:LEU:HA	1.71	0.44
1:G:349:ILE:O	1:G:436:LEU:HD12	2.17	0.44
1:H:48:LYS:HB3	1:H:95:VAL:CG1	2.41	0.44
1:H:199:SER:HA	1:I:324:ASP:HB3	1.98	0.44
1:I:387:GLY:O	1:I:391:TYR:HB2	2.18	0.44
1:K:498:LEU:HB3	1:K:500:ILE:HG23	1.99	0.44
1:L:158:GLU:CG	1:L:159:PRO:HD2	2.46	0.44
1:M:108:ALA:O	1:M:109:VAL:CG1	2.65	0.44
1:M:352:VAL:HG12	1:M:580:ASN:OD1	2.17	0.44
1:M:498:LEU:HB3	1:M:500:ILE:HG23	1.99	0.44
1:M:568:LEU:HG	1:M:569:PHE:CD1	2.52	0.44
1:N:119:GLU:O	1:N:169:ALA:HB3	2.16	0.44
1:N:349:ILE:O	1:N:436:LEU:HD12	2.17	0.44
1:N:603:GLN:OE1	1:O:582:MET:HE1	2.18	0.44
1:O:354:ASP:OD1	1:O:578:LYS:HB2	2.17	0.44
1:O:387:GLY:O	1:O:391:TYR:HB2	2.18	0.44
2:Q:105:LEU:HD22	2:Q:119:PHE:HZ	1.81	0.44
2:W:54:GLY:CA	2:W:123:LEU:HD11	2.46	0.44
1:A:483:LYS:O	1:A:502:GLN:HA	2.17	0.44
1:B:267:VAL:HB	1:C:335:GLN:OE1	2.17	0.44
1:B:483:LYS:O	1:B:502:GLN:HA	2.17	0.44
1:C:108:ALA:O	1:C:109:VAL:CG1	2.65	0.44
1:C:441:ILE:HG13	1:C:442:VAL:N	2.33	0.44
1:D:203:VAL:O	1:D:206:LEU:N	2.44	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:457:VAL:O	1:D:478:LYS:HB3	2.17	0.44
1:E:108:ALA:O	1:E:109:VAL:CG1	2.65	0.44
1:E:274:LYS:HG2	1:E:275:ALA:N	2.32	0.44
1:E:457:VAL:O	1:E:478:LYS:HB3	2.17	0.44
1:F:108:ALA:O	1:F:109:VAL:CG1	2.65	0.44
1:F:387:GLY:O	1:F:391:TYR:HB2	2.18	0.44
1:G:460:LEU:HB2	1:G:518:LEU:HG	1.98	0.44
1:I:498:LEU:HB3	1:I:500:ILE:HG23	1.99	0.44
1:L:457:VAL:O	1:L:478:LYS:HB3	2.17	0.44
1:M:162:VAL:HB	1:N:182:VAL:HG23	2.00	0.44
1:M:346:GLU:OE2	1:M:586:ARG:NH2	2.50	0.44
1:M:360:LEU:HD12	1:M:425:THR:O	2.17	0.44
1:M:457:VAL:O	1:M:478:LYS:HB3	2.17	0.44
1:M:548:THR:N	1:M:577:SER:O	2.49	0.44
1:N:498:LEU:HB3	1:N:500:ILE:HG23	1.99	0.44
1:N:548:THR:N	1:N:577:SER:O	2.49	0.44
2:S:54:GLY:CA	2:S:123:LEU:HD11	2.47	0.44
2:b:45:LEU:HD21	2:b:97:ASN:HD21	1.80	0.44
1:A:45:ASN:ND2	3:f:108:LEU:HD11	2.32	0.44
1:A:349:ILE:O	1:A:436:LEU:HD12	2.17	0.44
1:A:568:LEU:HG	1:A:569:PHE:CD1	2.52	0.44
1:B:354:ASP:OD1	1:B:578:LYS:HB2	2.17	0.44
1:B:611:GLN:HE22	1:B:612:THR:HG22	1.82	0.44
1:C:232:ARG:NH2	1:D:259:GLN:HB3	2.33	0.44
1:C:352:VAL:HG12	1:C:580:ASN:OD1	2.17	0.44
1:D:232:ARG:NH2	1:E:259:GLN:HB3	2.32	0.44
1:D:274:LYS:HG2	1:D:275:ALA:N	2.32	0.44
1:D:441:ILE:HG13	1:D:442:VAL:N	2.33	0.44
1:E:611:GLN:HE22	1:E:612:THR:HG22	1.82	0.44
1:G:346:GLU:OE2	1:G:586:ARG:NH2	2.50	0.44
1:K:274:LYS:HG2	1:K:275:ALA:N	2.32	0.44
1:K:349:ILE:HD11	1:K:504:VAL:HG11	2.00	0.44
1:K:354:ASP:OD1	1:K:578:LYS:HB2	2.17	0.44
1:K:457:VAL:O	1:K:478:LYS:HB3	2.17	0.44
1:L:360:LEU:HD13	1:L:426:ALA:HB2	2.00	0.44
1:L:548:THR:N	1:L:577:SER:O	2.49	0.44
1:M:360:LEU:HD13	1:M:426:ALA:HB2	2.00	0.44
1:N:158:GLU:OE1	1:O:182:VAL:HG21	2.18	0.44
1:N:360:LEU:HD13	1:N:426:ALA:HB2	2.00	0.44
1:N:457:VAL:O	1:N:478:LYS:HB3	2.17	0.44
1:O:108:ALA:O	1:O:109:VAL:CG1	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:346:GLU:OE1	1:O:346:GLU:N	2.50	0.44
1:O:360:LEU:HD13	1:O:426:ALA:HB2	2.00	0.44
1:O:483:LYS:O	1:O:502:GLN:HA	2.17	0.44
1:O:640:PHE:HZ	2:d:118:GLN:HB3	1.83	0.44
1:A:346:GLU:OE2	1:A:586:ARG:NH2	2.50	0.44
1:B:199:SER:HA	1:C:324:ASP:HB3	2.00	0.44
1:B:410:GLY:HA2	1:B:427:LEU:HD13	2.00	0.44
1:B:441:ILE:HG13	1:B:442:VAL:N	2.33	0.44
1:C:45:ASN:ND2	3:e:108:LEU:HD11	2.32	0.44
1:D:460:LEU:HB2	1:D:518:LEU:HG	1.99	0.44
1:E:352:VAL:HG12	1:E:580:ASN:OD1	2.17	0.44
1:E:410:GLY:HA2	1:E:427:LEU:HD13	2.00	0.44
1:G:459:VAL:HG12	1:G:518:LEU:HD23	2.00	0.44
1:G:621:GLU:CD	1:H:436:LEU:HD11	2.43	0.44
1:H:349:ILE:O	1:H:436:LEU:HD12	2.17	0.44
1:H:459:VAL:HG12	1:H:518:LEU:HD23	2.00	0.44
1:I:39:ILE:O	1:I:43:SER:OG	2.35	0.44
1:I:459:VAL:HG12	1:I:518:LEU:HD23	2.00	0.44
1:J:349:ILE:HD11	1:J:504:VAL:HG11	2.00	0.44
1:J:387:GLY:O	1:J:391:TYR:HB2	2.17	0.44
1:K:262:GLN:CB	1:L:331:ARG:NH2	2.80	0.44
1:K:267:VAL:HB	1:L:335:GLN:OE1	2.17	0.44
1:L:349:ILE:HD11	1:L:504:VAL:HG11	2.00	0.44
1:L:640:PHE:HZ	2:a:118:GLN:HB3	1.83	0.44
1:M:45:ASN:ND2	3:q:108:LEU:HD11	2.32	0.44
1:M:158:GLU:OE1	1:N:182:VAL:HG21	2.18	0.44
1:M:346:GLU:OE1	1:M:346:GLU:N	2.50	0.44
1:N:39:ILE:O	1:N:43:SER:OG	2.36	0.44
1:N:259:GLN:NE2	1:O:331:ARG:NH1	2.66	0.44
1:A:42:VAL:HG11	1:A:77:PHE:CD1	2.53	0.44
1:A:108:ALA:O	1:A:109:VAL:CG1	2.65	0.44
1:A:346:GLU:OE1	1:A:346:GLU:N	2.50	0.44
1:A:360:LEU:HD13	1:A:426:ALA:HB2	2.00	0.44
1:B:45:ASN:ND2	3:g:108:LEU:HD11	2.32	0.44
1:B:491:ASN:CG	1:B:492:GLU:N	2.69	0.44
1:C:349:ILE:HD11	1:C:504:VAL:HG11	2.00	0.44
1:E:325:VAL:HG22	1:E:328:ASP:OD2	2.18	0.44
1:E:460:LEU:HB2	1:E:518:LEU:HG	1.99	0.44
1:F:199:SER:HA	1:G:324:ASP:HB3	2.00	0.44
1:F:272:TYR:CZ	1:F:339:ARG:HG2	2.53	0.44
1:I:441:ILE:HG13	1:I:442:VAL:N	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:45:ASN:ND2	3:n:108:LEU:HD11	2.32	0.44
1:J:441:ILE:HG13	1:J:442:VAL:N	2.33	0.44
1:J:459:VAL:HG12	1:J:518:LEU:HD23	2.00	0.44
1:K:45:ASN:ND2	3:o:108:LEU:HD11	2.33	0.44
1:K:232:ARG:NH2	1:L:259:GLN:HB3	2.32	0.44
1:L:346:GLU:OE2	1:L:586:ARG:NH2	2.50	0.44
1:L:360:LEU:HD12	1:L:425:THR:O	2.17	0.44
1:N:325:VAL:HG22	1:N:328:ASP:OD2	2.18	0.44
1:N:607:PHE:HE1	1:O:580:ASN:HB2	1.82	0.44
1:N:611:GLN:HE22	1:N:612:THR:HG22	1.82	0.44
2:Y:64:ARG:NH2	2:Y:127:ILE:HD13	2.31	0.44
1:A:459:VAL:HG21	1:O:477:ARG:NH1	2.32	0.44
1:B:349:ILE:HD11	1:B:504:VAL:HG11	2.00	0.44
1:C:42:VAL:HG11	1:C:77:PHE:CD1	2.53	0.44
1:C:274:LYS:HG2	1:C:275:ALA:N	2.32	0.44
1:D:349:ILE:HD11	1:D:504:VAL:HG11	2.00	0.44
1:D:401:LEU:HA	1:D:401:LEU:HD13	1.68	0.44
1:D:477:ARG:NH1	1:E:459:VAL:HG21	2.32	0.44
1:F:45:ASN:ND2	3:j:108:LEU:HD11	2.32	0.44
1:F:158:GLU:OE2	1:G:133:VAL:HG11	2.17	0.44
1:F:364:TRP:N	1:F:372:THR:OG1	2.42	0.44
1:G:457:VAL:O	1:G:478:LYS:HB3	2.17	0.44
1:G:498:LEU:HB3	1:G:500:ILE:HG23	1.99	0.44
1:H:387:GLY:O	1:H:391:TYR:HB2	2.18	0.44
1:I:346:GLU:OE2	1:I:586:ARG:NH2	2.50	0.44
1:I:568:LEU:HG	1:I:569:PHE:CD1	2.52	0.44
1:J:65:TYR:CZ	3:m:113:PRO:HG3	2.52	0.44
1:J:529:ASN:HD21	1:J:541:VAL:HG13	1.83	0.44
1:K:346:GLU:OE2	1:K:586:ARG:NH2	2.50	0.44
1:K:360:LEU:HD13	1:K:426:ALA:HB2	2.00	0.44
1:L:45:ASN:ND2	3:p:108:LEU:HD11	2.32	0.44
1:L:108:ALA:O	1:L:109:VAL:CG1	2.66	0.44
1:L:274:LYS:HG2	1:L:275:ALA:N	2.32	0.44
1:L:477:ARG:HH11	1:M:459:VAL:HB	1.70	0.44
1:M:441:ILE:HG13	1:M:442:VAL:N	2.33	0.44
1:M:640:PHE:HZ	2:b:118:GLN:HB3	1.83	0.44
1:N:401:LEU:HD13	1:N:401:LEU:HA	1.69	0.44
1:N:621:GLU:HG2	1:O:436:LEU:HD13	1.99	0.44
1:N:640:PHE:HZ	2:c:118:GLN:HB3	1.83	0.44
2:Z:54:GLY:CA	2:Z:123:LEU:HD11	2.46	0.44
1:A:410:GLY:HA2	1:A:427:LEU:HD13	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:441:ILE:HG13	1:A:442:VAL:N	2.33	0.44
1:A:498:LEU:HB3	1:A:500:ILE:HG23	1.99	0.44
1:B:366:ASN:OD1	1:B:419:ASN:HB3	2.18	0.44
1:B:457:VAL:O	1:B:478:LYS:HB3	2.17	0.44
1:C:48:LYS:HB3	1:C:95:VAL:HG21	2.00	0.44
1:C:325:VAL:HG22	1:C:328:ASP:OD2	2.18	0.44
1:C:346:GLU:N	1:C:346:GLU:OE1	2.50	0.44
1:D:491:ASN:CG	1:D:492:GLU:N	2.69	0.44
1:E:441:ILE:HG13	1:E:442:VAL:N	2.33	0.44
1:H:441:ILE:HG13	1:H:442:VAL:N	2.33	0.44
1:H:529:ASN:HD21	1:H:541:VAL:HG13	1.83	0.44
1:I:48:LYS:HB3	1:I:95:VAL:HG21	2.00	0.44
1:I:349:ILE:O	1:I:436:LEU:HD12	2.17	0.44
1:I:457:VAL:O	1:I:478:LYS:HB3	2.17	0.44
1:I:547:LYS:HA	1:I:578:LYS:HA	2.00	0.44
1:I:603:GLN:OE1	1:J:582:MET:HE1	2.17	0.44
1:J:346:GLU:OE2	1:J:586:ARG:NH2	2.50	0.44
1:K:459:VAL:HG12	1:K:518:LEU:HD23	2.00	0.44
1:L:272:TYR:CZ	1:L:339:ARG:HG2	2.53	0.44
1:L:441:ILE:HG13	1:L:442:VAL:N	2.33	0.44
1:M:48:LYS:HB3	1:M:95:VAL:CG1	2.41	0.44
1:M:349:ILE:HD11	1:M:504:VAL:HG11	2.00	0.44
1:O:457:VAL:N	1:O:478:LYS:O	2.44	0.44
1:O:459:VAL:O	1:O:475:VAL:CB	2.61	0.44
1:O:498:LEU:HB3	1:O:500:ILE:HG23	1.99	0.44
1:A:65:TYR:CZ	3:s:113:PRO:HG3	2.52	0.43
1:A:259:GLN:HB3	1:O:232:ARG:NH2	2.33	0.43
1:A:324:ASP:HB3	1:O:199:SER:HA	2.00	0.43
1:A:325:VAL:HG22	1:A:328:ASP:OD2	2.18	0.43
1:A:349:ILE:HD11	1:A:504:VAL:HG11	2.00	0.43
1:B:360:LEU:HD13	1:B:426:ALA:HB2	2.00	0.43
1:B:625:SER:O	1:B:628:LEU:HB2	2.18	0.43
1:C:477:ARG:NH1	1:D:459:VAL:HG21	2.32	0.43
1:C:640:PHE:HZ	2:P:118:GLN:HB3	1.83	0.43
1:D:39:ILE:O	1:D:43:SER:OG	2.36	0.43
1:D:346:GLU:OE1	1:D:346:GLU:N	2.50	0.43
1:D:410:GLY:HA2	1:D:427:LEU:HD13	2.00	0.43
1:D:600:SER:OG	1:E:540:VAL:HG12	2.18	0.43
1:E:91:MET:HG3	1:E:92:ASN:N	2.33	0.43
1:E:346:GLU:OE2	1:E:586:ARG:NH2	2.50	0.43
1:E:349:ILE:HD11	1:E:504:VAL:HG11	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:387:GLY:O	1:E:391:TYR:HB2	2.18	0.43
1:F:91:MET:HG3	1:F:92:ASN:N	2.33	0.43
1:F:349:ILE:HD11	1:F:504:VAL:HG11	2.00	0.43
1:F:352:VAL:HG12	1:F:580:ASN:OD1	2.17	0.43
1:F:460:LEU:HB2	1:F:518:LEU:HG	1.99	0.43
1:F:498:LEU:HB3	1:F:500:ILE:HG23	1.99	0.43
1:G:91:MET:HG3	1:G:92:ASN:N	2.33	0.43
1:G:387:GLY:O	1:G:391:TYR:HB2	2.18	0.43
1:H:39:ILE:O	1:H:43:SER:OG	2.36	0.43
1:H:547:LYS:HA	1:H:578:LYS:HA	2.00	0.43
1:I:346:GLU:OE1	1:I:346:GLU:N	2.50	0.43
1:I:409:ASN:OD1	1:J:375:THR:HG23	2.18	0.43
1:I:611:GLN:HE22	1:I:612:THR:HG22	1.82	0.43
1:I:621:GLU:HG2	1:J:436:LEU:HD13	2.01	0.43
1:I:625:SER:O	1:I:628:LEU:HB2	2.18	0.43
1:J:48:LYS:HB3	1:J:95:VAL:HG21	2.00	0.43
1:J:108:ALA:O	1:J:109:VAL:CG1	2.65	0.43
1:K:441:ILE:HG13	1:K:442:VAL:N	2.33	0.43
1:K:611:GLN:HE22	1:K:612:THR:HG22	1.82	0.43
1:L:349:ILE:O	1:L:436:LEU:HD12	2.17	0.43
1:L:483:LYS:O	1:L:502:GLN:HA	2.17	0.43
1:M:39:ILE:O	1:M:43:SER:OG	2.36	0.43
1:M:42:VAL:HG11	1:M:77:PHE:CD1	2.53	0.43
1:M:199:SER:HA	1:N:324:ASP:HB3	1.99	0.43
1:M:366:ASN:OD1	1:M:419:ASN:HB3	2.18	0.43
1:M:457:VAL:N	1:M:478:LYS:O	2.44	0.43
1:M:483:LYS:O	1:M:502:GLN:HA	2.17	0.43
1:N:226:ASN:ND2	1:O:210:LEU:O	2.42	0.43
1:N:272:TYR:CZ	1:N:339:ARG:HG2	2.53	0.43
1:N:346:GLU:OE2	1:N:586:ARG:NH2	2.50	0.43
1:N:387:GLY:O	1:N:391:TYR:HB2	2.18	0.43
1:O:45:ASN:ND2	3:s:108:LEU:HD11	2.32	0.43
1:O:272:TYR:CZ	1:O:339:ARG:HG2	2.53	0.43
2:P:54:GLY:CA	2:P:123:LEU:HD11	2.46	0.43
2:c:45:LEU:HD21	2:c:97:ASN:HD21	1.80	0.43
1:A:457:VAL:N	1:A:478:LYS:O	2.43	0.43
1:A:491:ASN:HD21	1:A:532:LEU:HD11	1.83	0.43
1:C:153:SER:OG	1:C:165:MET:HB2	2.19	0.43
1:C:195:LEU:HA	1:C:195:LEU:HD12	1.71	0.43
1:D:48:LYS:HB3	1:D:95:VAL:CG1	2.41	0.43
1:D:48:LYS:HB3	1:D:95:VAL:HG21	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:91:MET:HG3	1:D:92:ASN:N	2.33	0.43
1:D:153:SER:OG	1:D:165:MET:HB2	2.18	0.43
1:D:366:ASN:OD1	1:D:419:ASN:HB3	2.18	0.43
1:E:346:GLU:OE1	1:E:346:GLU:N	2.50	0.43
1:E:498:LEU:HB3	1:E:500:ILE:HG23	1.99	0.43
1:G:114:ALA:HA	1:G:126:ARG:NH1	2.34	0.43
1:G:621:GLU:HG2	1:H:436:LEU:HD13	2.00	0.43
1:H:153:SER:OG	1:H:165:MET:HB2	2.19	0.43
1:H:346:GLU:OE2	1:H:586:ARG:NH2	2.50	0.43
1:I:272:TYR:CZ	1:I:339:ARG:HG2	2.53	0.43
1:J:114:ALA:HA	1:J:126:ARG:NH1	2.34	0.43
1:J:349:ILE:O	1:J:436:LEU:HD12	2.17	0.43
1:K:349:ILE:O	1:K:436:LEU:HD12	2.17	0.43
1:K:366:ASN:OD1	1:K:419:ASN:HB3	2.18	0.43
1:K:410:GLY:HA2	1:K:427:LEU:HD13	2.00	0.43
1:K:483:LYS:O	1:K:502:GLN:HA	2.17	0.43
1:K:625:SER:O	1:K:628:LEU:HB2	2.18	0.43
1:L:262:GLN:CB	1:M:331:ARG:NH2	2.80	0.43
1:L:459:VAL:HG12	1:L:518:LEU:HD23	2.00	0.43
1:M:349:ILE:O	1:M:436:LEU:HD12	2.17	0.43
1:M:491:ASN:HD21	1:M:532:LEU:HD11	1.83	0.43
1:N:42:VAL:HG11	1:N:77:PHE:CD1	2.53	0.43
1:N:491:ASN:HD21	1:N:532:LEU:HD11	1.83	0.43
1:O:349:ILE:O	1:O:436:LEU:HD12	2.17	0.43
2:S:45:LEU:HD21	2:S:97:ASN:HD21	1.80	0.43
1:A:387:GLY:O	1:A:391:TYR:HB2	2.18	0.43
1:A:515:SER:O	1:A:516:SER:OG	2.30	0.43
1:B:48:LYS:HB3	1:B:95:VAL:HG21	2.00	0.43
1:B:491:ASN:HD21	1:B:532:LEU:HD11	1.83	0.43
1:C:91:MET:HG3	1:C:92:ASN:N	2.33	0.43
1:C:360:LEU:HD13	1:C:426:ALA:HB2	2.00	0.43
1:C:498:LEU:HB3	1:C:500:ILE:HG23	1.99	0.43
1:D:625:SER:O	1:D:628:LEU:HB2	2.18	0.43
1:E:459:VAL:HG12	1:E:518:LEU:HD23	2.00	0.43
1:E:607:PHE:HE1	1:F:580:ASN:HB2	1.83	0.43
1:F:311:HIS:ND1	1:F:314:THR:HG22	2.34	0.43
1:G:45:ASN:ND2	3:k:108:LEU:HD11	2.32	0.43
1:G:272:TYR:CZ	1:G:339:ARG:HG2	2.53	0.43
1:G:366:ASN:OD1	1:G:419:ASN:HB3	2.18	0.43
1:G:441:ILE:HG13	1:G:442:VAL:N	2.33	0.43
1:G:491:ASN:HD21	1:G:532:LEU:HD11	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:625:SER:O	1:G:628:LEU:HB2	2.18	0.43
1:H:259:GLN:NE2	1:I:331:ARG:NH1	2.66	0.43
1:H:548:THR:N	1:H:577:SER:O	2.49	0.43
1:I:349:ILE:HD11	1:I:504:VAL:HG11	2.00	0.43
1:I:640:PHE:HZ	2:X:118:GLN:HB3	1.83	0.43
1:J:410:GLY:HA2	1:J:427:LEU:HD13	2.00	0.43
1:J:547:LYS:HA	1:J:578:LYS:HA	2.00	0.43
1:J:629:LEU:HD21	1:K:538:THR:HG22	2.00	0.43
1:L:114:ALA:HA	1:L:126:ARG:NH1	2.33	0.43
1:M:529:ASN:HD21	1:M:541:VAL:HG13	1.83	0.43
1:N:351:GLU:OE1	1:N:579:ARG:NH1	2.39	0.43
1:N:483:LYS:O	1:N:502:GLN:HA	2.17	0.43
1:O:39:ILE:O	1:O:43:SER:OG	2.36	0.43
1:O:491:ASN:HD21	1:O:532:LEU:HD11	1.83	0.43
2:a:54:GLY:CA	2:a:123:LEU:HD11	2.47	0.43
1:A:311:HIS:ND1	1:A:314:THR:HG22	2.34	0.43
1:B:91:MET:HG3	1:B:92:ASN:N	2.33	0.43
1:B:232:ARG:NH2	1:C:259:GLN:HB3	2.34	0.43
1:B:346:GLU:OE1	1:B:346:GLU:N	2.50	0.43
1:C:387:GLY:O	1:C:391:TYR:HB2	2.18	0.43
1:D:114:ALA:HA	1:D:126:ARG:NH1	2.34	0.43
1:E:48:LYS:HB3	1:E:95:VAL:HG21	2.00	0.43
1:E:203:VAL:O	1:E:206:LEU:N	2.44	0.43
1:E:311:HIS:ND1	1:E:314:THR:HG22	2.34	0.43
1:E:366:ASN:OD1	1:E:419:ASN:HB3	2.18	0.43
1:F:159:PRO:HD3	1:G:137:ASP:OD2	2.17	0.43
1:G:311:HIS:ND1	1:G:314:THR:HG22	2.34	0.43
1:H:48:LYS:HB3	1:H:95:VAL:HG21	2.00	0.43
1:H:311:HIS:ND1	1:H:314:THR:HG22	2.34	0.43
1:H:491:ASN:HD21	1:H:532:LEU:HD11	1.83	0.43
1:I:640:PHE:HZ	2:X:118:GLN:CB	2.32	0.43
1:J:153:SER:OG	1:J:165:MET:HB2	2.19	0.43
1:J:360:LEU:HD13	1:J:426:ALA:HB2	2.00	0.43
1:J:542:GLY:HA3	1:J:583:LEU:HD12	2.01	0.43
1:K:48:LYS:HB3	1:K:95:VAL:HG21	2.00	0.43
1:K:640:PHE:HZ	2:Z:118:GLN:HB3	1.83	0.43
1:L:387:GLY:O	1:L:391:TYR:HB2	2.18	0.43
1:L:517:ASP:CG	1:L:518:LEU:N	2.67	0.43
1:L:529:ASN:HD21	1:L:541:VAL:HG13	1.83	0.43
1:M:475:VAL:CG2	1:N:518:LEU:CD2	2.96	0.43
1:M:611:GLN:HE22	1:M:612:THR:HG22	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:354:ASP:OD1	1:N:578:LYS:HB2	2.17	0.43
1:O:42:VAL:HG11	1:O:77:PHE:CD1	2.53	0.43
1:O:625:SER:O	1:O:628:LEU:HB2	2.19	0.43
1:A:91:MET:HG3	1:A:92:ASN:N	2.33	0.43
1:A:364:TRP:N	1:A:372:THR:OG1	2.42	0.43
1:A:640:PHE:HZ	2:Q:118:GLN:HB3	1.83	0.43
1:B:272:TYR:CZ	1:B:339:ARG:HG2	2.53	0.43
1:B:457:VAL:N	1:B:478:LYS:O	2.44	0.43
1:B:499:GLU:N	1:B:499:GLU:OE1	2.52	0.43
1:B:529:ASN:HD21	1:B:541:VAL:HG13	1.83	0.43
1:B:640:PHE:HZ	2:R:118:GLN:HB3	1.83	0.43
1:C:114:ALA:HA	1:C:126:ARG:NH1	2.34	0.43
1:C:272:TYR:CZ	1:C:339:ARG:HG2	2.53	0.43
1:C:311:HIS:ND1	1:C:314:THR:HG22	2.34	0.43
1:C:542:GLY:HA3	1:C:583:LEU:HD12	2.01	0.43
1:E:158:GLU:OE1	1:F:182:VAL:HG21	2.17	0.43
1:F:410:GLY:HA2	1:F:427:LEU:HD13	2.00	0.43
1:F:491:ASN:HD21	1:F:532:LEU:HD11	1.83	0.43
1:H:91:MET:HG3	1:H:92:ASN:N	2.33	0.43
1:H:366:ASN:OD1	1:H:419:ASN:HB3	2.18	0.43
1:I:477:ARG:NH2	1:J:459:VAL:CG1	2.79	0.43
1:I:499:GLU:OE1	1:I:499:GLU:N	2.52	0.43
1:I:542:GLY:HA3	1:I:583:LEU:HD12	2.01	0.43
1:J:640:PHE:HZ	2:Y:118:GLN:HB3	1.83	0.43
1:L:48:LYS:HB3	1:L:95:VAL:HG21	2.00	0.43
1:L:153:SER:OG	1:L:165:MET:HB2	2.19	0.43
1:L:267:VAL:HB	1:M:335:GLN:OE1	2.18	0.43
1:L:410:GLY:HA2	1:L:427:LEU:HD13	2.00	0.43
1:L:491:ASN:HD21	1:L:532:LEU:HD11	1.83	0.43
1:L:542:GLY:HA3	1:L:583:LEU:HD12	2.01	0.43
1:M:625:SER:O	1:M:628:LEU:HB2	2.19	0.43
1:N:108:ALA:O	1:N:109:VAL:CG1	2.66	0.43
1:N:441:ILE:HG13	1:N:442:VAL:N	2.33	0.43
1:O:529:ASN:HD21	1:O:541:VAL:HG13	1.83	0.43
1:B:39:ILE:O	1:B:43:SER:OG	2.36	0.43
1:B:114:ALA:HA	1:B:126:ARG:NH1	2.33	0.43
1:B:223:MET:O	1:B:223:MET:HG2	2.19	0.43
1:B:352:VAL:HG12	1:B:580:ASN:OD1	2.17	0.43
1:B:477:ARG:NH1	1:C:459:VAL:HG21	2.32	0.43
1:B:542:GLY:HA3	1:B:583:LEU:HD12	2.01	0.43
1:C:262:GLN:CB	1:D:331:ARG:NH2	2.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:410:GLY:HA2	1:C:427:LEU:HD13	2.00	0.43
1:D:223:MET:O	1:D:223:MET:HG2	2.19	0.43
1:D:311:HIS:ND1	1:D:314:THR:HG22	2.34	0.43
1:D:325:VAL:HG22	1:D:328:ASP:OD2	2.18	0.43
1:D:360:LEU:HD13	1:D:426:ALA:HB2	2.00	0.43
1:D:459:VAL:HG12	1:D:518:LEU:HD23	2.00	0.43
1:D:640:PHE:HZ	2:S:118:GLN:CB	2.32	0.43
1:E:42:VAL:HG11	1:E:77:PHE:CD1	2.53	0.43
1:E:114:ALA:HA	1:E:126:ARG:NH1	2.34	0.43
1:E:529:ASN:HD21	1:E:541:VAL:HG13	1.83	0.43
1:F:45:ASN:HB3	1:F:73:TYR:OH	2.19	0.43
1:F:441:ILE:HG13	1:F:442:VAL:N	2.33	0.43
1:G:39:ILE:O	1:G:43:SER:OG	2.36	0.43
1:G:123:VAL:HG22	1:G:168:ARG:HD2	2.01	0.43
1:G:349:ILE:HD11	1:G:504:VAL:HG11	2.00	0.43
1:H:127:VAL:HA	1:H:164:LEU:HA	2.01	0.43
1:H:272:TYR:CZ	1:H:339:ARG:HG2	2.53	0.43
1:H:600:SER:OG	1:I:540:VAL:HG12	2.18	0.43
1:I:199:SER:HA	1:J:324:ASP:HB3	1.99	0.43
1:J:366:ASN:OD1	1:J:419:ASN:HB3	2.18	0.43
1:J:640:PHE:HZ	2:Y:118:GLN:CB	2.32	0.43
1:K:42:VAL:HG11	1:K:77:PHE:CD1	2.53	0.43
1:K:325:VAL:HG22	1:K:328:ASP:OD2	2.18	0.43
1:L:351:GLU:OE1	1:L:579:ARG:NH1	2.39	0.43
1:N:153:SER:OG	1:N:165:MET:HB2	2.19	0.43
1:N:349:ILE:HD11	1:N:504:VAL:HG11	2.00	0.43
1:N:410:GLY:HA2	1:N:427:LEU:HD13	2.00	0.43
1:O:91:MET:HG3	1:O:92:ASN:N	2.33	0.43
1:O:366:ASN:OD1	1:O:419:ASN:HB3	2.18	0.43
1:O:441:ILE:HG13	1:O:442:VAL:N	2.33	0.43
2:T:73:ILE:HA	2:T:130:LEU:HD11	2.01	0.43
1:A:640:PHE:HZ	2:Q:118:GLN:CB	2.32	0.43
1:C:223:MET:HG2	1:C:223:MET:O	2.19	0.43
1:C:491:ASN:HD21	1:C:532:LEU:HD11	1.83	0.43
1:C:640:PHE:HZ	2:P:118:GLN:CB	2.32	0.43
1:E:44:LYS:HZ1	3:i:128:SER:CB	2.29	0.43
1:E:45:ASN:HB3	1:E:73:TYR:OH	2.19	0.43
1:E:153:SER:OG	1:E:165:MET:HB2	2.18	0.43
1:E:272:TYR:CZ	1:E:339:ARG:HG2	2.53	0.43
1:E:542:GLY:HA3	1:E:583:LEU:HD12	2.01	0.43
1:F:153:SER:OG	1:F:165:MET:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:459:VAL:HG12	1:F:518:LEU:HD23	2.00	0.43
1:G:127:VAL:HA	1:G:164:LEU:HA	2.01	0.43
1:G:547:LYS:HA	1:G:578:LYS:HA	2.00	0.43
1:H:123:VAL:HG22	1:H:168:ARG:HD2	2.01	0.43
1:H:195:LEU:HA	1:H:195:LEU:HD12	1.71	0.43
1:H:499:GLU:OE1	1:H:499:GLU:N	2.52	0.43
1:H:640:PHE:HZ	2:W:118:GLN:CB	2.32	0.43
1:I:114:ALA:HA	1:I:126:ARG:NH1	2.34	0.43
1:I:223:MET:HG2	1:I:223:MET:O	2.19	0.43
1:I:366:ASN:OD1	1:I:419:ASN:HB3	2.19	0.43
1:J:42:VAL:HG11	1:J:77:PHE:CD1	2.53	0.43
1:J:45:ASN:HB3	1:J:73:TYR:OH	2.19	0.43
1:K:114:ALA:HA	1:K:126:ARG:NH1	2.34	0.43
1:M:114:ALA:HA	1:M:126:ARG:NH1	2.34	0.43
1:M:459:VAL:HG12	1:M:518:LEU:HD23	2.00	0.43
1:M:542:GLY:HA3	1:M:583:LEU:HD12	2.01	0.43
1:N:91:MET:HG3	1:N:92:ASN:N	2.33	0.43
1:O:346:GLU:OE2	1:O:586:ARG:NH2	2.50	0.43
1:O:349:ILE:HD11	1:O:504:VAL:HG11	2.00	0.43
1:O:542:GLY:HA3	1:O:583:LEU:HD12	2.01	0.43
2:U:73:ILE:HA	2:U:130:LEU:HD11	2.01	0.43
1:A:48:LYS:HB3	1:A:95:VAL:HG21	2.00	0.43
1:A:223:MET:HG2	1:A:223:MET:O	2.19	0.43
1:A:499:GLU:OE1	1:A:499:GLU:N	2.52	0.43
1:A:542:GLY:HA3	1:A:583:LEU:HD12	2.01	0.43
1:B:42:VAL:HG11	1:B:77:PHE:CD1	2.53	0.43
1:B:153:SER:OG	1:B:165:MET:HB2	2.19	0.43
1:C:136:ARG:O	1:C:140:PRO:HD3	2.19	0.43
1:C:499:GLU:OE1	1:C:499:GLU:N	2.52	0.43
1:D:42:VAL:HG11	1:D:77:PHE:CD1	2.53	0.43
1:D:542:GLY:HA3	1:D:583:LEU:HD12	2.01	0.43
1:E:135:ALA:HA	1:E:138:LEU:CD2	2.48	0.43
1:E:223:MET:O	1:E:223:MET:HG2	2.19	0.43
1:E:360:LEU:HD13	1:E:426:ALA:HB2	2.00	0.43
1:E:625:SER:O	1:E:628:LEU:HB2	2.18	0.43
1:E:640:PHE:HZ	2:T:118:GLN:CB	2.32	0.43
1:F:366:ASN:OD1	1:F:419:ASN:HB3	2.18	0.43
1:F:542:GLY:HA3	1:F:583:LEU:HD12	2.01	0.43
1:F:640:PHE:HZ	2:U:118:GLN:HB3	1.83	0.43
1:G:410:GLY:HA2	1:G:427:LEU:HD13	2.00	0.43
1:H:223:MET:O	1:H:223:MET:HG2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:48:LYS:HB3	1:I:95:VAL:CG1	2.41	0.43
1:I:91:MET:HG3	1:I:92:ASN:N	2.33	0.43
1:I:311:HIS:ND1	1:I:314:THR:HG22	2.34	0.43
1:I:410:GLY:HA2	1:I:427:LEU:HD13	2.00	0.43
1:I:491:ASN:HD21	1:I:532:LEU:HD11	1.83	0.43
1:I:529:ASN:HD21	1:I:541:VAL:HG13	1.83	0.43
1:J:272:TYR:CZ	1:J:339:ARG:HG2	2.53	0.43
1:J:491:ASN:HD21	1:J:532:LEU:HD11	1.83	0.43
1:J:611:GLN:HE22	1:J:612:THR:HG22	1.82	0.43
1:K:45:ASN:HB3	1:K:73:TYR:OH	2.19	0.43
1:K:136:ARG:O	1:K:140:PRO:HD3	2.19	0.43
1:K:459:VAL:O	1:K:475:VAL:CB	2.61	0.43
1:K:529:ASN:HD21	1:K:541:VAL:HG13	1.83	0.43
1:L:223:MET:O	1:L:223:MET:HG2	2.19	0.43
1:L:325:VAL:HG22	1:L:328:ASP:OD2	2.18	0.43
1:M:48:LYS:HB3	1:M:95:VAL:HG21	2.00	0.43
1:M:153:SER:OG	1:M:165:MET:HB2	2.19	0.43
1:A:625:SER:O	1:A:628:LEU:HB2	2.18	0.43
1:B:325:VAL:HG22	1:B:328:ASP:OD2	2.18	0.43
1:C:135:ALA:HA	1:C:138:LEU:CD2	2.48	0.43
1:C:457:VAL:N	1:C:478:LYS:O	2.44	0.43
1:D:272:TYR:CZ	1:D:339:ARG:HG2	2.53	0.43
1:E:491:ASN:HD21	1:E:532:LEU:HD11	1.83	0.43
1:F:127:VAL:HA	1:F:164:LEU:HA	2.01	0.43
1:F:360:LEU:HD13	1:F:426:ALA:HB2	2.00	0.43
1:G:640:PHE:HZ	2:V:118:GLN:CB	2.32	0.43
1:H:410:GLY:HA2	1:H:427:LEU:HD13	2.00	0.43
1:I:42:VAL:HG11	1:I:77:PHE:CD1	2.53	0.43
1:I:127:VAL:HA	1:I:164:LEU:HA	2.01	0.43
1:I:621:GLU:CD	1:J:436:LEU:HD11	2.43	0.43
1:J:499:GLU:N	1:J:499:GLU:OE1	2.52	0.43
1:K:272:TYR:CZ	1:K:339:ARG:HG2	2.53	0.43
1:K:542:GLY:HA3	1:K:583:LEU:HD12	2.01	0.43
1:L:136:ARG:O	1:L:140:PRO:HD3	2.19	0.43
1:L:159:PRO:HD3	1:M:137:ASP:OD2	2.18	0.43
1:L:596:TYR:CZ	1:L:600:SER:OG	2.72	0.43
1:L:640:PHE:HZ	2:a:118:GLN:CB	2.32	0.43
1:M:272:TYR:CZ	1:M:339:ARG:HG2	2.53	0.43
1:M:410:GLY:HA2	1:M:427:LEU:HD13	2.00	0.43
1:M:499:GLU:N	1:M:499:GLU:OE1	2.52	0.43
1:N:45:ASN:HB3	1:N:73:TYR:OH	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:366:ASN:OD1	1:N:419:ASN:HB3	2.18	0.43
1:O:153:SER:OG	1:O:165:MET:HB2	2.19	0.43
1:O:223:MET:O	1:O:223:MET:HG2	2.19	0.43
1:O:325:VAL:HG22	1:O:328:ASP:OD2	2.18	0.43
2:S:73:ILE:HA	2:S:130:LEU:HD11	2.01	0.43
2:V:73:ILE:HA	2:V:130:LEU:HD11	2.01	0.43
2:a:45:LEU:HD21	2:a:97:ASN:HD21	1.80	0.43
1:A:45:ASN:HB3	1:A:73:TYR:OH	2.19	0.43
1:A:272:TYR:CZ	1:A:339:ARG:HG2	2.53	0.43
1:A:366:ASN:OD1	1:A:419:ASN:HB3	2.18	0.43
1:A:459:VAL:HG12	1:A:518:LEU:HD23	2.00	0.43
1:B:262:GLN:CB	1:C:331:ARG:NH2	2.82	0.43
1:B:311:HIS:ND1	1:B:314:THR:HG22	2.34	0.43
1:C:39:ILE:O	1:C:43:SER:OG	2.36	0.43
1:C:47:ASN:OD1	1:D:65:TYR:CD2	2.72	0.43
1:C:629:LEU:HD21	1:D:538:THR:HG22	2.00	0.43
1:F:42:VAL:HG11	1:F:77:PHE:CD1	2.53	0.43
1:F:48:LYS:HB3	1:F:95:VAL:HG21	2.00	0.43
1:F:123:VAL:HG22	1:F:168:ARG:HD2	2.01	0.43
1:F:625:SER:O	1:F:628:LEU:HB2	2.18	0.43
1:F:640:PHE:HZ	2:U:118:GLN:CB	2.32	0.43
1:G:42:VAL:HG11	1:G:77:PHE:CD1	2.53	0.43
1:G:45:ASN:HB3	1:G:73:TYR:OH	2.19	0.43
1:G:162:VAL:HB	1:H:182:VAL:HG23	2.00	0.43
1:G:325:VAL:HG22	1:G:328:ASP:OD2	2.18	0.43
1:G:360:LEU:HD13	1:G:426:ALA:HB2	2.00	0.43
1:G:529:ASN:HD21	1:G:541:VAL:HG13	1.83	0.43
1:G:542:GLY:HA3	1:G:583:LEU:HD12	2.01	0.43
1:H:42:VAL:HG11	1:H:77:PHE:CD1	2.53	0.43
1:I:123:VAL:HG22	1:I:168:ARG:HD2	2.01	0.43
1:I:221:GLY:HA3	1:J:215:SER:H	1.84	0.43
1:I:360:LEU:HD13	1:I:426:ALA:HB2	2.00	0.43
1:J:625:SER:O	1:J:628:LEU:HB2	2.18	0.43
1:K:199:SER:HA	1:L:324:ASP:HB3	1.99	0.43
1:K:491:ASN:HD21	1:K:532:LEU:HD11	1.83	0.43
1:K:547:LYS:HA	1:K:578:LYS:HA	2.00	0.43
1:L:42:VAL:HG11	1:L:77:PHE:CD1	2.53	0.43
1:L:45:ASN:HB3	1:L:73:TYR:OH	2.19	0.43
1:L:124:VAL:O	1:L:166:THR:OG1	2.29	0.43
1:M:325:VAL:HG22	1:M:328:ASP:OD2	2.18	0.43
1:N:48:LYS:HB3	1:N:95:VAL:HG21	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:542:GLY:HA3	1:N:583:LEU:HD12	2.01	0.43
1:N:625:SER:O	1:N:628:LEU:HB2	2.18	0.43
1:O:459:VAL:HG12	1:O:518:LEU:HD23	2.00	0.43
2:Z:73:ILE:HA	2:Z:130:LEU:HD11	2.01	0.43
1:A:114:ALA:HA	1:A:126:ARG:NH1	2.34	0.42
1:B:136:ARG:O	1:B:140:PRO:HD3	2.19	0.42
1:B:498:LEU:HB3	1:B:500:ILE:HG23	1.99	0.42
1:D:498:LEU:HB3	1:D:500:ILE:HG23	1.99	0.42
1:F:114:ALA:HA	1:F:126:ARG:NH1	2.33	0.42
1:F:351:GLU:OE1	1:F:579:ARG:NH1	2.39	0.42
1:F:529:ASN:HD21	1:F:541:VAL:HG13	1.83	0.42
1:F:542:GLY:H	1:F:583:LEU:HB2	1.84	0.42
1:G:611:GLN:HE22	1:G:612:THR:HG22	1.82	0.42
1:H:114:ALA:HA	1:H:126:ARG:NH1	2.33	0.42
1:H:349:ILE:HD11	1:H:504:VAL:HG11	2.00	0.42
1:H:360:LEU:HD13	1:H:426:ALA:HB2	2.00	0.42
1:J:325:VAL:HG22	1:J:328:ASP:OD2	2.18	0.42
1:K:39:ILE:O	1:K:43:SER:OG	2.36	0.42
1:K:153:SER:OG	1:K:165:MET:HB2	2.19	0.42
1:K:596:TYR:CZ	1:K:600:SER:OG	2.72	0.42
1:L:158:GLU:OE1	1:M:182:VAL:HG21	2.19	0.42
1:L:611:GLN:HE22	1:L:612:THR:HG22	1.82	0.42
1:M:91:MET:HG3	1:M:92:ASN:N	2.33	0.42
1:M:223:MET:O	1:M:223:MET:HG2	2.19	0.42
1:M:596:TYR:CZ	1:M:600:SER:OG	2.72	0.42
1:N:127:VAL:HA	1:N:164:LEU:HA	2.01	0.42
1:N:311:HIS:ND1	1:N:314:THR:HG22	2.34	0.42
1:N:520:ALA:HB1	1:N:522:PHE:CD2	2.54	0.42
1:N:529:ASN:HD21	1:N:541:VAL:HG13	1.83	0.42
1:O:114:ALA:HA	1:O:126:ARG:NH1	2.34	0.42
1:O:542:GLY:H	1:O:583:LEU:HB2	1.84	0.42
2:X:45:LEU:HD21	2:X:97:ASN:HD21	1.80	0.42
2:a:73:ILE:HA	2:a:130:LEU:HD11	2.01	0.42
1:A:39:ILE:O	1:A:43:SER:OG	2.36	0.42
1:A:123:VAL:HG22	1:A:168:ARG:HD2	2.01	0.42
1:B:629:LEU:HD21	1:C:538:THR:HG22	2.00	0.42
1:D:45:ASN:HB3	1:D:73:TYR:OH	2.19	0.42
1:D:390:GLN:HG2	1:D:401:LEU:HD21	2.01	0.42
1:G:499:GLU:OE1	1:G:499:GLU:N	2.52	0.42
1:H:44:LYS:HZ1	3:l:128:SER:CB	2.31	0.42
1:H:542:GLY:HA3	1:H:583:LEU:HD12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:39:ILE:O	1:J:43:SER:OG	2.35	0.42
1:J:311:HIS:ND1	1:J:314:THR:HG22	2.34	0.42
1:K:477:ARG:NH1	1:L:459:VAL:HG21	2.33	0.42
1:K:515:SER:O	1:K:516:SER:OG	2.31	0.42
1:L:274:LYS:HG2	1:L:275:ALA:H	1.84	0.42
1:M:127:VAL:HA	1:M:164:LEU:HA	2.01	0.42
1:M:136:ARG:O	1:M:140:PRO:HD3	2.19	0.42
1:M:520:ALA:HB1	1:M:522:PHE:CD2	2.54	0.42
1:M:542:GLY:H	1:M:583:LEU:HB2	1.84	0.42
1:N:114:ALA:HA	1:N:126:ARG:NH1	2.34	0.42
1:N:267:VAL:HB	1:O:335:GLN:OE1	2.19	0.42
1:O:611:GLN:HE22	1:O:612:THR:HG22	1.82	0.42
1:O:640:PHE:HZ	2:d:118:GLN:CB	2.32	0.42
1:A:271:LYS:O	1:B:491:ASN:HB2	2.20	0.42
1:A:529:ASN:HD21	1:A:541:VAL:HG13	1.83	0.42
1:B:547:LYS:HA	1:B:578:LYS:HA	2.00	0.42
1:C:48:LYS:HB3	1:C:95:VAL:CG1	2.41	0.42
1:C:529:ASN:HD21	1:C:541:VAL:HG13	1.83	0.42
1:D:136:ARG:O	1:D:140:PRO:HD3	2.19	0.42
1:D:259:GLN:NE2	1:E:331:ARG:NH1	2.67	0.42
1:D:491:ASN:HD21	1:D:532:LEU:HD11	1.83	0.42
1:D:499:GLU:OE1	1:D:499:GLU:N	2.52	0.42
1:E:123:VAL:HG22	1:E:168:ARG:HD2	2.01	0.42
1:E:517:ASP:CG	1:E:518:LEU:N	2.67	0.42
1:F:135:ALA:HA	1:F:138:LEU:CD2	2.48	0.42
1:F:259:GLN:NE2	1:G:331:ARG:NH1	2.67	0.42
1:F:325:VAL:HG22	1:F:328:ASP:OD2	2.18	0.42
1:G:232:ARG:NH2	1:H:259:GLN:HB3	2.34	0.42
1:G:629:LEU:HD23	1:H:538:THR:HG22	1.99	0.42
1:H:325:VAL:HG22	1:H:328:ASP:OD2	2.18	0.42
1:I:203:VAL:O	1:I:206:LEU:N	2.44	0.42
1:I:542:GLY:H	1:I:583:LEU:HB2	1.84	0.42
1:I:607:PHE:HE1	1:J:580:ASN:HB2	1.85	0.42
1:J:411:ILE:HG12	1:K:556:VAL:CG2	2.49	0.42
1:J:596:TYR:CZ	1:J:600:SER:OG	2.72	0.42
1:K:226:ASN:ND2	1:L:210:LEU:O	2.46	0.42
1:K:274:LYS:HG2	1:K:275:ALA:H	1.85	0.42
1:L:127:VAL:HA	1:L:164:LEU:HA	2.01	0.42
1:L:499:GLU:OE1	1:L:499:GLU:N	2.52	0.42
1:L:520:ALA:HB1	1:L:522:PHE:CD2	2.54	0.42
1:L:625:SER:O	1:L:628:LEU:HB2	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:223:MET:HG2	1:N:223:MET:O	2.19	0.42
1:N:459:VAL:HG12	1:N:518:LEU:HD23	2.00	0.42
1:O:34:ASP:HB2	1:O:37:GLU:HG2	2.01	0.42
1:O:123:VAL:HG22	1:O:168:ARG:HD2	2.01	0.42
1:O:410:GLY:HA2	1:O:427:LEU:HD13	2.00	0.42
1:A:34:ASP:HB2	1:A:37:GLU:HG2	2.01	0.42
1:A:411:ILE:CG2	1:B:372:THR:HG22	2.45	0.42
1:A:434:ASP:HB3	1:B:549:VAL:HG12	2.01	0.42
1:A:436:LEU:HD11	1:O:621:GLU:CD	2.45	0.42
1:A:547:LYS:HA	1:A:578:LYS:HA	2.00	0.42
1:B:271:LYS:N	1:B:337:ASP:OD2	2.33	0.42
1:B:274:LYS:HG2	1:B:275:ALA:H	1.84	0.42
1:C:366:ASN:OD1	1:C:419:ASN:HB3	2.18	0.42
1:C:625:SER:O	1:C:628:LEU:HB2	2.19	0.42
1:D:640:PHE:HZ	2:S:118:GLN:HB3	1.83	0.42
1:E:390:GLN:HG2	1:E:401:LEU:HD21	2.01	0.42
1:E:621:GLU:CD	1:F:436:LEU:HD11	2.44	0.42
1:F:223:MET:HG2	1:F:223:MET:O	2.19	0.42
1:F:629:LEU:HD21	1:G:538:THR:HG22	2.01	0.42
1:G:640:PHE:HZ	2:V:118:GLN:HB3	1.83	0.42
1:H:34:ASP:HB2	1:H:37:GLU:HG2	2.01	0.42
1:H:520:ALA:HB1	1:H:522:PHE:CD2	2.54	0.42
1:H:542:GLY:H	1:H:583:LEU:HB2	1.84	0.42
1:H:640:PHE:HZ	2:W:118:GLN:HB3	1.83	0.42
1:I:45:ASN:HB3	1:I:73:TYR:OH	2.19	0.42
1:I:221:GLY:N	1:J:215:SER:HB3	2.32	0.42
1:I:232:ARG:NH2	1:J:259:GLN:HB3	2.34	0.42
1:J:135:ALA:HA	1:J:138:LEU:CD2	2.48	0.42
1:J:223:MET:O	1:J:223:MET:HG2	2.19	0.42
1:J:415:PHE:HB3	1:J:422:MET:SD	2.60	0.42
1:K:311:HIS:ND1	1:K:314:THR:HG22	2.34	0.42
1:L:39:ILE:O	1:L:43:SER:OG	2.36	0.42
1:M:45:ASN:HB3	1:M:73:TYR:OH	2.19	0.42
1:M:640:PHE:HZ	2:b:118:GLN:CB	2.32	0.42
1:N:499:GLU:OE1	1:N:499:GLU:N	2.52	0.42
1:N:607:PHE:CE1	1:O:580:ASN:HB2	2.54	0.42
1:O:127:VAL:HA	1:O:164:LEU:HA	2.01	0.42
1:O:547:LYS:HA	1:O:578:LYS:HA	2.00	0.42
2:b:73:ILE:HA	2:b:130:LEU:HD11	2.01	0.42
1:A:390:GLN:HG2	1:A:401:LEU:HD21	2.01	0.42
1:B:123:VAL:HG22	1:B:168:ARG:HD2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:390:GLN:HG2	1:B:401:LEU:HD21	2.01	0.42
1:B:542:GLY:H	1:B:583:LEU:HB2	1.84	0.42
1:B:621:GLU:CD	1:C:436:LEU:HD11	2.45	0.42
1:C:267:VAL:HB	1:D:335:GLN:OE1	2.18	0.42
1:C:390:GLN:HG2	1:C:401:LEU:HD21	2.01	0.42
1:C:542:GLY:H	1:C:583:LEU:HB2	1.85	0.42
1:D:457:VAL:N	1:D:478:LYS:O	2.43	0.42
1:D:529:ASN:HD21	1:D:541:VAL:HG13	1.83	0.42
1:D:547:LYS:HA	1:D:578:LYS:HA	2.00	0.42
1:E:415:PHE:HB3	1:E:422:MET:SD	2.60	0.42
1:E:640:PHE:HZ	2:T:118:GLN:HB3	1.83	0.42
1:G:48:LYS:HB3	1:G:95:VAL:HG21	2.00	0.42
1:G:265:THR:HG21	1:G:320:THR:HG22	2.02	0.42
1:G:415:PHE:HB3	1:G:422:MET:SD	2.60	0.42
1:G:475:VAL:CG2	1:H:518:LEU:CD2	2.94	0.42
1:I:65:TYR:CZ	3:I:113:PRO:HG3	2.54	0.42
1:I:153:SER:OG	1:I:165:MET:HB2	2.19	0.42
1:K:223:MET:HG2	1:K:223:MET:O	2.19	0.42
1:L:135:ALA:HA	1:L:138:LEU:CD2	2.48	0.42
1:L:366:ASN:OD1	1:L:419:ASN:HB3	2.18	0.42
1:M:232:ARG:NH2	1:N:259:GLN:HB3	2.34	0.42
1:N:376:ASN:OD1	1:N:377:SER:N	2.53	0.42
1:O:195:LEU:HD12	1:O:195:LEU:HA	1.71	0.42
1:O:376:ASN:OD1	1:O:377:SER:N	2.53	0.42
1:O:520:ALA:HB1	1:O:522:PHE:CD2	2.54	0.42
2:P:73:ILE:HA	2:P:130:LEU:HD11	2.01	0.42
2:Y:73:ILE:HA	2:Y:130:LEU:HD11	2.01	0.42
1:A:127:VAL:HA	1:A:164:LEU:HA	2.01	0.42
1:A:136:ARG:O	1:A:140:PRO:HD3	2.19	0.42
1:B:158:GLU:OE1	1:C:182:VAL:HG21	2.20	0.42
1:B:459:VAL:HG12	1:B:518:LEU:HD23	2.00	0.42
1:C:607:PHE:HE1	1:D:580:ASN:HB2	1.85	0.42
1:E:547:LYS:HA	1:E:578:LYS:HA	2.00	0.42
1:F:547:LYS:HA	1:F:578:LYS:HA	2.00	0.42
1:G:136:ARG:O	1:G:140:PRO:HD3	2.19	0.42
1:I:34:ASP:HB2	1:I:37:GLU:HG2	2.01	0.42
1:I:596:TYR:CZ	1:I:600:SER:OG	2.72	0.42
1:I:629:LEU:HD23	1:J:538:THR:HG22	2.01	0.42
1:J:127:VAL:HA	1:J:164:LEU:HA	2.01	0.42
1:J:162:VAL:HB	1:K:182:VAL:HG23	2.00	0.42
1:K:271:LYS:N	1:K:337:ASP:OD2	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:376:ASN:OD1	1:K:377:SER:N	2.53	0.42
1:K:542:GLY:H	1:K:583:LEU:HB2	1.84	0.42
1:K:607:PHE:HE1	1:L:580:ASN:HB2	1.85	0.42
1:L:376:ASN:OD1	1:L:377:SER:N	2.53	0.42
1:L:415:PHE:HB3	1:L:422:MET:SD	2.60	0.42
1:L:475:VAL:CG2	1:M:518:LEU:CD2	2.94	0.42
1:M:274:LYS:HG2	1:M:275:ALA:H	1.84	0.42
1:M:311:HIS:ND1	1:M:314:THR:HG22	2.34	0.42
1:N:34:ASP:HB2	1:N:37:GLU:HG2	2.01	0.42
1:N:123:VAL:HG22	1:N:168:ARG:HD2	2.01	0.42
1:N:547:LYS:HA	1:N:578:LYS:HA	2.00	0.42
1:O:48:LYS:HB3	1:O:95:VAL:HG21	2.00	0.42
1:O:311:HIS:ND1	1:O:314:THR:HG22	2.34	0.42
2:W:73:ILE:HA	2:W:130:LEU:HD11	2.01	0.42
1:A:65:TYR:CD2	1:O:47:ASN:OD1	2.73	0.42
1:A:153:SER:OG	1:A:165:MET:HB2	2.19	0.42
1:A:274:LYS:HG2	1:A:275:ALA:H	1.85	0.42
1:A:580:ASN:HB2	1:O:607:PHE:CE1	2.55	0.42
1:B:135:ALA:HA	1:B:138:LEU:CD2	2.48	0.42
1:B:640:PHE:HZ	2:R:118:GLN:CB	2.32	0.42
1:C:45:ASN:HB3	1:C:73:TYR:OH	2.19	0.42
1:C:158:GLU:OE1	1:D:182:VAL:HG21	2.20	0.42
1:C:274:LYS:HG2	1:C:275:ALA:H	1.85	0.42
1:C:376:ASN:OD1	1:C:377:SER:N	2.53	0.42
1:C:415:PHE:HB3	1:C:422:MET:SD	2.60	0.42
1:C:547:LYS:HA	1:C:578:LYS:HA	2.00	0.42
1:D:195:LEU:HA	1:D:195:LEU:HD12	1.71	0.42
1:E:127:VAL:HA	1:E:164:LEU:HA	2.01	0.42
1:E:542:GLY:H	1:E:583:LEU:HB2	1.84	0.42
1:F:274:LYS:HG2	1:F:275:ALA:H	1.85	0.42
1:F:499:GLU:OE1	1:F:499:GLU:N	2.52	0.42
1:H:45:ASN:HB3	1:H:73:TYR:OH	2.19	0.42
1:H:104:ALA:HB1	1:H:109:VAL:HG11	2.02	0.42
1:H:135:ALA:HA	1:H:138:LEU:CD2	2.48	0.42
1:H:136:ARG:O	1:H:140:PRO:HD3	2.19	0.42
1:H:159:PRO:HD3	1:I:137:ASP:OD2	2.19	0.42
1:H:265:THR:HG21	1:H:320:THR:HG22	2.02	0.42
1:H:607:PHE:HE1	1:I:580:ASN:HB2	1.85	0.42
1:H:625:SER:O	1:H:628:LEU:HB2	2.19	0.42
1:I:415:PHE:HB3	1:I:422:MET:SD	2.60	0.42
1:J:65:TYR:CZ	3:m:113:PRO:CB	3.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:123:VAL:HG22	1:J:168:ARG:HD2	2.01	0.42
1:J:136:ARG:O	1:J:140:PRO:HD3	2.19	0.42
1:K:640:PHE:HZ	2:Z:118:GLN:CB	2.32	0.42
1:L:91:MET:HG3	1:L:92:ASN:N	2.33	0.42
1:L:311:HIS:ND1	1:L:314:THR:HG22	2.34	0.42
1:M:376:ASN:OD1	1:M:377:SER:N	2.53	0.42
1:M:387:GLY:HA2	1:M:401:LEU:HD11	2.02	0.42
1:N:135:ALA:HA	1:N:138:LEU:CD2	2.48	0.42
1:N:136:ARG:O	1:N:140:PRO:HD3	2.19	0.42
1:C:491:ASN:CG	1:C:492:GLU:N	2.69	0.42
1:D:104:ALA:HB1	1:D:109:VAL:HG11	2.02	0.42
1:D:376:ASN:OD1	1:D:377:SER:N	2.53	0.42
1:E:104:ALA:HB1	1:E:109:VAL:HG11	2.02	0.42
1:E:422:MET:C	1:E:423:LEU:HD22	2.45	0.42
1:E:499:GLU:N	1:E:499:GLU:OE1	2.52	0.42
1:F:390:GLN:HG2	1:F:401:LEU:HD21	2.01	0.42
1:G:104:ALA:HB1	1:G:109:VAL:HG11	2.02	0.42
1:G:153:SER:OG	1:G:165:MET:HB2	2.18	0.42
1:G:520:ALA:HB1	1:G:522:PHE:CD2	2.54	0.42
1:H:415:PHE:HB3	1:H:422:MET:SD	2.60	0.42
1:I:104:ALA:HB1	1:I:109:VAL:HG11	2.02	0.42
1:I:520:ALA:HB1	1:I:522:PHE:CD2	2.54	0.42
1:I:629:LEU:HD21	1:J:538:THR:HG22	2.01	0.42
1:J:34:ASP:HB2	1:J:37:GLU:HG2	2.01	0.42
1:J:274:LYS:HG2	1:J:275:ALA:H	1.85	0.42
1:J:600:SER:OG	1:K:540:VAL:HG12	2.19	0.42
1:K:520:ALA:HB1	1:K:522:PHE:CD2	2.54	0.42
1:L:203:VAL:O	1:L:206:LEU:N	2.44	0.42
1:L:387:GLY:HA2	1:L:401:LEU:HD11	2.02	0.42
1:L:607:PHE:HE1	1:M:580:ASN:HB2	1.85	0.42
1:N:640:PHE:HZ	2:c:118:GLN:CB	2.32	0.42
2:X:73:ILE:HA	2:X:130:LEU:HD11	2.01	0.42
1:A:518:LEU:CD2	1:O:475:VAL:CG2	2.97	0.42
1:B:127:VAL:HA	1:B:164:LEU:HA	2.01	0.42
1:C:123:VAL:HG22	1:C:168:ARG:HD2	2.01	0.42
1:C:459:VAL:HG12	1:C:518:LEU:HD23	2.00	0.42
1:D:123:VAL:HG22	1:D:168:ARG:HD2	2.01	0.42
1:D:415:PHE:HB3	1:D:422:MET:SD	2.60	0.42
1:G:34:ASP:HB2	1:G:37:GLU:HG2	2.01	0.42
1:G:135:ALA:HA	1:G:138:LEU:CD2	2.48	0.42
1:G:223:MET:O	1:G:223:MET:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:262:GLN:CB	1:H:331:ARG:NH2	2.82	0.42
1:G:274:LYS:HG2	1:G:275:ALA:H	1.85	0.42
1:G:422:MET:C	1:G:423:LEU:HD22	2.45	0.42
1:G:476:GLU:CG	1:G:477:ARG:N	2.78	0.42
1:H:78:LEU:CG	1:H:121:ASP:HB3	2.50	0.42
1:H:278:LEU:HD23	1:H:278:LEU:HA	1.86	0.42
1:I:159:PRO:CD	1:J:137:ASP:OD2	2.68	0.42
1:I:265:THR:HG21	1:I:320:THR:HG22	2.02	0.42
1:I:564:VAL:HG23	1:I:565:ILE:HG12	2.02	0.42
1:K:564:VAL:HG23	1:K:565:ILE:HG12	2.02	0.42
1:L:166:THR:HG23	1:L:167:GLY:N	2.35	0.42
1:M:34:ASP:HB2	1:M:37:GLU:HG2	2.01	0.42
1:M:166:THR:HG23	1:M:167:GLY:N	2.35	0.42
1:M:547:LYS:HA	1:M:578:LYS:HA	2.00	0.42
1:N:348:ILE:HD11	1:N:584:PHE:CD2	2.55	0.42
1:N:457:VAL:N	1:N:478:LYS:O	2.44	0.42
1:O:45:ASN:HB3	1:O:73:TYR:OH	2.19	0.42
1:O:390:GLN:HG2	1:O:401:LEU:HD21	2.01	0.42
2:c:73:ILE:HA	2:c:130:LEU:HD11	2.01	0.42
1:A:135:ALA:HA	1:A:138:LEU:CD2	2.48	0.42
1:A:376:ASN:OD1	1:A:377:SER:N	2.53	0.42
1:A:596:TYR:CZ	1:A:600:SER:OG	2.72	0.42
1:B:227:VAL:HG22	1:B:238:VAL:HG12	2.02	0.42
1:B:596:TYR:CZ	1:B:600:SER:OG	2.72	0.42
1:C:78:LEU:CG	1:C:121:ASP:HB3	2.50	0.42
1:C:227:VAL:HG22	1:C:238:VAL:HG12	2.02	0.42
1:C:344:LEU:O	1:C:587:PRO:HA	2.20	0.42
1:D:274:LYS:HG2	1:D:275:ALA:H	1.85	0.42
1:D:542:GLY:H	1:D:583:LEU:HB2	1.84	0.42
1:E:78:LEU:CG	1:E:121:ASP:HB3	2.50	0.42
1:E:274:LYS:HG2	1:E:275:ALA:H	1.85	0.42
1:F:34:ASP:HB2	1:F:37:GLU:HG2	2.01	0.42
1:F:415:PHE:HB3	1:F:422:MET:SD	2.60	0.42
1:H:422:MET:C	1:H:423:LEU:HD22	2.45	0.42
1:I:47:ASN:OD1	1:J:65:TYR:CD2	2.73	0.42
1:I:78:LEU:CG	1:I:121:ASP:HB3	2.50	0.42
1:K:259:GLN:NE2	1:L:331:ARG:NH1	2.68	0.42
1:K:344:LEU:O	1:K:587:PRO:HA	2.20	0.42
1:K:459:VAL:HG12	1:K:460:LEU:N	2.35	0.42
1:K:499:GLU:OE1	1:K:499:GLU:N	2.52	0.42
1:L:344:LEU:O	1:L:587:PRO:HA	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:547:LYS:HA	1:L:578:LYS:HA	2.00	0.42
1:M:344:LEU:O	1:M:587:PRO:HA	2.20	0.42
1:O:499:GLU:OE1	1:O:499:GLU:N	2.52	0.42
1:A:78:LEU:CG	1:A:121:ASP:HB3	2.50	0.41
1:A:227:VAL:HG22	1:A:238:VAL:HG12	2.02	0.41
1:B:34:ASP:HB2	1:B:37:GLU:HG2	2.01	0.41
1:B:48:LYS:HB3	1:B:95:VAL:CG1	2.41	0.41
1:C:46:LEU:HB2	1:C:73:TYR:HE2	1.85	0.41
1:C:127:VAL:HA	1:C:164:LEU:HA	2.01	0.41
1:C:459:VAL:HG12	1:C:460:LEU:N	2.35	0.41
1:C:520:ALA:HB1	1:C:522:PHE:CD2	2.54	0.41
1:D:422:MET:C	1:D:423:LEU:HD22	2.45	0.41
1:F:39:ILE:O	1:F:43:SER:OG	2.36	0.41
1:F:104:ALA:HB1	1:F:109:VAL:HG11	2.02	0.41
1:F:136:ARG:O	1:F:140:PRO:HD3	2.19	0.41
1:F:348:ILE:HD11	1:F:584:PHE:CD2	2.55	0.41
1:G:78:LEU:CG	1:G:121:ASP:HB3	2.50	0.41
1:G:348:ILE:HD11	1:G:584:PHE:CD2	2.55	0.41
1:I:136:ARG:O	1:I:140:PRO:HD3	2.19	0.41
1:I:325:VAL:HG22	1:I:328:ASP:OD2	2.18	0.41
1:J:104:ALA:HB1	1:J:109:VAL:HG11	2.02	0.41
1:J:172:ILE:HD13	1:J:172:ILE:HA	1.90	0.41
1:J:344:LEU:O	1:J:587:PRO:HA	2.20	0.41
1:J:564:VAL:HG23	1:J:565:ILE:HG12	2.02	0.41
1:K:127:VAL:HA	1:K:164:LEU:HA	2.01	0.41
1:K:166:THR:HG23	1:K:167:GLY:N	2.35	0.41
1:L:259:GLN:NE2	1:M:331:ARG:NH1	2.68	0.41
1:L:564:VAL:HG23	1:L:565:ILE:HG12	2.02	0.41
1:M:123:VAL:HG22	1:M:168:ARG:HD2	2.01	0.41
1:N:166:THR:HG23	1:N:167:GLY:N	2.35	0.41
1:N:344:LEU:O	1:N:587:PRO:HA	2.20	0.41
1:N:459:VAL:HG12	1:N:460:LEU:N	2.35	0.41
1:A:137:ASP:OD2	1:O:159:PRO:CD	2.68	0.41
1:A:542:GLY:H	1:A:583:LEU:HB2	1.84	0.41
1:B:46:LEU:HB2	1:B:73:TYR:HE2	1.85	0.41
1:B:78:LEU:CG	1:B:121:ASP:HB3	2.50	0.41
1:B:348:ILE:HD11	1:B:584:PHE:CD2	2.55	0.41
1:B:411:ILE:CG2	1:C:372:THR:HG22	2.48	0.41
1:B:459:VAL:HG12	1:B:460:LEU:N	2.35	0.41
1:C:104:ALA:HB1	1:C:109:VAL:HG11	2.02	0.41
1:C:348:ILE:HD11	1:C:584:PHE:CD2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:409:ASN:OD1	1:D:375:THR:HG23	2.20	0.41
1:D:135:ALA:HA	1:D:138:LEU:CD2	2.48	0.41
1:E:34:ASP:HB2	1:E:37:GLU:HG2	2.01	0.41
1:F:65:TYR:CZ	3:i:113:PRO:HG3	2.55	0.41
1:F:262:GLN:N	1:G:331:ARG:HH22	2.08	0.41
1:F:344:LEU:O	1:F:587:PRO:HA	2.20	0.41
1:G:344:LEU:O	1:G:587:PRO:HA	2.20	0.41
1:H:348:ILE:HD11	1:H:584:PHE:CD2	2.55	0.41
1:H:376:ASN:OD1	1:H:377:SER:N	2.53	0.41
1:H:596:TYR:CZ	1:H:600:SER:OG	2.72	0.41
1:I:119:GLU:O	1:I:121:ASP:N	2.54	0.41
1:J:78:LEU:CG	1:J:121:ASP:HB3	2.50	0.41
1:J:265:THR:HG21	1:J:320:THR:HG22	2.02	0.41
1:J:621:GLU:HG2	1:K:436:LEU:HD13	2.02	0.41
1:K:34:ASP:HB2	1:K:37:GLU:HG2	2.01	0.41
1:K:46:LEU:HB2	1:K:73:TYR:HE2	1.85	0.41
1:L:46:LEU:HB2	1:L:73:TYR:HE2	1.85	0.41
1:L:348:ILE:HD11	1:L:584:PHE:CD2	2.55	0.41
1:M:348:ILE:HD11	1:M:584:PHE:CD2	2.55	0.41
1:N:387:GLY:HA2	1:N:401:LEU:HD11	2.02	0.41
1:O:135:ALA:HA	1:O:138:LEU:CD2	2.48	0.41
1:O:166:THR:HG23	1:O:167:GLY:N	2.35	0.41
1:O:274:LYS:HG2	1:O:275:ALA:H	1.85	0.41
3:l:107:LEU:HD23	3:l:107:LEU:C	2.45	0.41
1:A:411:ILE:HG12	1:B:556:VAL:CG2	2.50	0.41
1:A:415:PHE:HB3	1:A:422:MET:SD	2.60	0.41
1:A:629:LEU:HD21	1:B:538:THR:HG22	2.02	0.41
1:B:45:ASN:HB3	1:B:73:TYR:OH	2.19	0.41
1:B:119:GLU:O	1:B:121:ASP:N	2.54	0.41
1:B:376:ASN:OD1	1:B:377:SER:N	2.53	0.41
1:B:475:VAL:CG2	1:C:518:LEU:CD2	2.95	0.41
1:C:119:GLU:O	1:C:121:ASP:N	2.54	0.41
1:C:596:TYR:CZ	1:C:600:SER:OG	2.72	0.41
1:D:46:LEU:HB2	1:D:73:TYR:HE2	1.85	0.41
1:D:227:VAL:HG22	1:D:238:VAL:HG12	2.02	0.41
1:D:520:ALA:HB1	1:D:522:PHE:CD2	2.54	0.41
1:E:166:THR:HG23	1:E:167:GLY:N	2.35	0.41
1:E:348:ILE:HD11	1:E:584:PHE:CD2	2.55	0.41
1:G:376:ASN:OD1	1:G:377:SER:N	2.53	0.41
1:G:390:GLN:HG2	1:G:401:LEU:HD21	2.01	0.41
1:G:459:VAL:HG12	1:G:460:LEU:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:542:GLY:H	1:G:583:LEU:HB2	1.84	0.41
1:H:564:VAL:HG23	1:H:565:ILE:HG12	2.02	0.41
1:I:267:VAL:HB	1:J:335:GLN:OE1	2.20	0.41
1:J:119:GLU:O	1:J:121:ASP:N	2.54	0.41
1:J:459:VAL:HG12	1:J:460:LEU:N	2.35	0.41
1:J:520:ALA:HB1	1:J:522:PHE:CD2	2.54	0.41
1:J:603:GLN:OE1	1:K:582:MET:HE1	2.20	0.41
1:K:91:MET:HG3	1:K:92:ASN:N	2.33	0.41
1:K:387:GLY:HA2	1:K:401:LEU:HD11	2.02	0.41
1:K:581:LEU:HA	1:K:581:LEU:HD12	1.86	0.41
1:L:278:LEU:HD23	1:L:278:LEU:HA	1.86	0.41
1:M:259:GLN:NE2	1:N:331:ARG:NH1	2.68	0.41
1:N:119:GLU:O	1:N:121:ASP:N	2.54	0.41
1:N:415:PHE:HB3	1:N:422:MET:SD	2.60	0.41
1:O:136:ARG:O	1:O:140:PRO:HD3	2.19	0.41
1:O:227:VAL:HG22	1:O:238:VAL:HG12	2.02	0.41
1:O:348:ILE:HD11	1:O:584:PHE:CD2	2.55	0.41
1:O:351:GLU:OE1	1:O:579:ARG:NH1	2.39	0.41
2:d:73:ILE:HA	2:d:130:LEU:HD11	2.01	0.41
1:A:344:LEU:O	1:A:587:PRO:HA	2.20	0.41
1:A:568:LEU:HG	1:A:569:PHE:CE1	2.56	0.41
1:B:363:GLN:HB2	1:B:372:THR:O	2.21	0.41
1:B:422:MET:C	1:B:423:LEU:HD22	2.45	0.41
1:B:603:GLN:OE1	1:C:582:MET:HE1	2.20	0.41
1:C:363:GLN:HB2	1:C:372:THR:O	2.21	0.41
1:D:127:VAL:HA	1:D:164:LEU:HA	2.01	0.41
1:D:411:ILE:HG12	1:E:556:VAL:CG2	2.50	0.41
1:E:136:ARG:O	1:E:140:PRO:HD3	2.19	0.41
1:E:363:GLN:HB2	1:E:372:THR:O	2.21	0.41
1:E:520:ALA:HB1	1:E:522:PHE:CD2	2.54	0.41
1:E:568:LEU:HG	1:E:569:PHE:CE1	2.56	0.41
1:F:78:LEU:CG	1:F:121:ASP:HB3	2.50	0.41
1:F:376:ASN:OD1	1:F:377:SER:N	2.53	0.41
1:G:232:ARG:HH21	1:G:233:THR:CG2	2.34	0.41
1:H:47:ASN:OD1	1:I:65:TYR:CD2	2.74	0.41
1:H:119:GLU:O	1:H:121:ASP:N	2.54	0.41
1:H:231:GLU:OE1	1:H:231:GLU:N	2.53	0.41
1:H:262:GLN:N	1:I:331:ARG:HH22	2.08	0.41
1:H:459:VAL:HG12	1:H:460:LEU:N	2.35	0.41
1:I:274:LYS:HG2	1:I:275:ALA:H	1.85	0.41
1:I:344:LEU:O	1:I:587:PRO:HA	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:348:ILE:HD11	1:K:584:PHE:CD2	2.55	0.41
1:K:390:GLN:HG2	1:K:401:LEU:HD21	2.01	0.41
1:K:568:LEU:HG	1:K:569:PHE:CE1	2.56	0.41
1:L:568:LEU:HG	1:L:569:PHE:CE1	2.56	0.41
1:M:415:PHE:HB3	1:M:422:MET:SD	2.60	0.41
1:N:46:LEU:HB2	1:N:73:TYR:HE2	1.85	0.41
1:N:48:LYS:HB3	1:N:95:VAL:CG1	2.41	0.41
1:N:65:TYR:CZ	3:q:113:PRO:CG	3.03	0.41
1:N:65:TYR:CZ	3:q:113:PRO:CB	3.00	0.41
1:O:278:LEU:HD23	1:O:278:LEU:HA	1.86	0.41
1:O:344:LEU:O	1:O:587:PRO:HA	2.20	0.41
1:O:459:VAL:HG12	1:O:460:LEU:N	2.35	0.41
2:R:73:ILE:HA	2:R:130:LEU:HD11	2.01	0.41
3:m:107:LEU:HD23	3:m:107:LEU:C	2.45	0.41
1:A:166:THR:HG23	1:A:167:GLY:N	2.35	0.41
1:A:363:GLN:HB2	1:A:372:THR:O	2.21	0.41
1:B:104:ALA:HB1	1:B:109:VAL:HG11	2.02	0.41
1:B:344:LEU:O	1:B:587:PRO:HA	2.20	0.41
1:D:78:LEU:CG	1:D:121:ASP:HB3	2.50	0.41
1:D:232:ARG:HH21	1:D:233:THR:CG2	2.34	0.41
1:D:344:LEU:O	1:D:587:PRO:HA	2.20	0.41
1:E:65:TYR:CZ	3:h:113:PRO:CB	3.04	0.41
1:E:195:LEU:HD12	1:E:195:LEU:HA	1.71	0.41
1:E:596:TYR:CZ	1:E:600:SER:OG	2.72	0.41
1:F:360:LEU:HA	1:F:425:THR:O	2.21	0.41
1:G:360:LEU:HA	1:G:425:THR:O	2.21	0.41
1:I:46:LEU:HB2	1:I:73:TYR:HE2	1.85	0.41
1:I:376:ASN:OD1	1:I:377:SER:N	2.53	0.41
1:K:78:LEU:CG	1:K:121:ASP:HB3	2.50	0.41
1:K:104:ALA:HB1	1:K:109:VAL:HG11	2.02	0.41
1:K:415:PHE:HB3	1:K:422:MET:SD	2.60	0.41
1:L:44:LYS:HZ1	3:p:128:SER:CB	2.33	0.41
1:M:119:GLU:O	1:M:121:ASP:N	2.54	0.41
1:N:159:PRO:HD3	1:O:137:ASP:OD2	2.20	0.41
1:N:227:VAL:HG22	1:N:238:VAL:HG12	2.02	0.41
1:N:360:LEU:HA	1:N:425:THR:O	2.21	0.41
1:N:564:VAL:HG23	1:N:565:ILE:HG12	2.02	0.41
1:O:422:MET:C	1:O:423:LEU:HD22	2.45	0.41
1:O:596:TYR:CZ	1:O:600:SER:OG	2.72	0.41
2:Q:73:ILE:HA	2:Q:130:LEU:HD11	2.01	0.41
3:k:107:LEU:HD23	3:k:107:LEU:C	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:210:LEU:O	1:O:226:ASN:ND2	2.46	0.41
1:A:348:ILE:HD11	1:A:584:PHE:CD2	2.55	0.41
1:A:422:MET:C	1:A:423:LEU:HD22	2.45	0.41
1:B:41:THR:O	1:B:44:LYS:HB2	2.21	0.41
1:B:65:TYR:CZ	3:f:113:PRO:HG3	2.56	0.41
1:B:166:THR:HG23	1:B:167:GLY:N	2.35	0.41
1:C:65:TYR:CZ	3:g:113:PRO:CB	3.03	0.41
1:C:422:MET:C	1:C:423:LEU:HD22	2.45	0.41
1:D:363:GLN:HB2	1:D:372:THR:O	2.21	0.41
1:E:227:VAL:HG22	1:E:238:VAL:HG12	2.02	0.41
1:E:318:ILE:HG22	1:E:319:VAL:H	1.80	0.41
1:F:459:VAL:HG12	1:F:460:LEU:N	2.35	0.41
1:F:564:VAL:HG23	1:F:565:ILE:HG12	2.02	0.41
1:G:53:ASP:HB2	1:G:54:PRO:HD2	2.03	0.41
1:G:564:VAL:HG23	1:G:565:ILE:HG12	2.02	0.41
1:G:596:TYR:CZ	1:G:600:SER:OG	2.72	0.41
1:H:158:GLU:OE1	1:I:182:VAL:HG21	2.19	0.41
1:H:390:GLN:HG2	1:H:401:LEU:HD21	2.02	0.41
1:H:568:LEU:HG	1:H:569:PHE:CE1	2.56	0.41
1:J:363:GLN:HB2	1:J:372:THR:O	2.21	0.41
1:L:53:ASP:HB2	1:L:54:PRO:HD2	2.03	0.41
1:N:274:LYS:HG2	1:N:275:ALA:H	1.85	0.41
1:O:360:LEU:HA	1:O:425:THR:O	2.21	0.41
2:W:45:LEU:HD21	2:W:97:ASN:HD21	1.80	0.41
3:n:107:LEU:HD23	3:n:107:LEU:C	2.45	0.41
1:A:46:LEU:HB2	1:A:73:TYR:HE2	1.85	0.41
1:A:48:LYS:HB3	1:A:95:VAL:CG1	2.41	0.41
1:A:331:ARG:NH2	1:O:262:GLN:CB	2.84	0.41
1:A:581:LEU:HD12	1:A:581:LEU:HA	1.86	0.41
1:B:232:ARG:HH21	1:B:233:THR:CG2	2.34	0.41
1:B:520:ALA:HB1	1:B:522:PHE:CD2	2.54	0.41
1:D:348:ILE:HD11	1:D:584:PHE:CD2	2.55	0.41
1:D:568:LEU:HG	1:D:569:PHE:CE1	2.56	0.41
1:D:596:TYR:CZ	1:D:600:SER:OG	2.72	0.41
1:E:360:LEU:HA	1:E:425:THR:O	2.21	0.41
1:F:422:MET:C	1:F:423:LEU:HD22	2.45	0.41
1:F:520:ALA:HB1	1:F:522:PHE:CD2	2.54	0.41
1:G:159:PRO:CD	1:H:137:ASP:OD2	2.69	0.41
1:H:387:GLY:HA2	1:H:401:LEU:HD11	2.02	0.41
1:I:53:ASP:HB2	1:I:54:PRO:HD2	2.03	0.41
1:I:232:ARG:HH21	1:I:233:THR:CG2	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:390:GLN:HG2	1:I:401:LEU:HD21	2.01	0.41
1:I:433:ASN:OD1	1:J:550:THR:OG1	2.19	0.41
1:J:232:ARG:HH21	1:J:233:THR:CG2	2.34	0.41
1:J:376:ASN:OD1	1:J:377:SER:N	2.53	0.41
1:J:422:MET:C	1:J:423:LEU:HD22	2.45	0.41
1:J:568:LEU:HG	1:J:569:PHE:CE1	2.56	0.41
1:K:158:GLU:OE1	1:L:182:VAL:HG21	2.20	0.41
1:L:34:ASP:HB2	1:L:37:GLU:HG2	2.01	0.41
1:L:123:VAL:HG22	1:L:168:ARG:HD2	2.01	0.41
1:L:232:ARG:HH21	1:L:233:THR:CG2	2.34	0.41
1:L:459:VAL:HG12	1:L:460:LEU:N	2.35	0.41
1:M:360:LEU:HA	1:M:425:THR:O	2.21	0.41
1:M:390:GLN:HG2	1:M:401:LEU:HD21	2.01	0.41
1:M:564:VAL:HG23	1:M:565:ILE:HG12	2.02	0.41
1:M:568:LEU:HG	1:M:569:PHE:CE1	2.56	0.41
1:N:364:TRP:N	1:N:372:THR:OG1	2.42	0.41
1:N:390:GLN:HG2	1:N:401:LEU:HD21	2.02	0.41
1:O:65:TYR:CZ	3:r:113:PRO:HG3	2.55	0.41
1:O:363:GLN:HB2	1:O:372:THR:O	2.21	0.41
1:O:387:GLY:HA2	1:O:401:LEU:HD11	2.02	0.41
1:A:232:ARG:HH21	1:A:233:THR:CG2	2.34	0.41
1:A:265:THR:HG21	1:A:320:THR:HG22	2.02	0.41
1:B:159:PRO:CD	1:C:137:ASP:OD2	2.69	0.41
1:B:607:PHE:HE1	1:C:580:ASN:HB2	1.86	0.41
1:C:41:THR:O	1:C:44:LYS:HB2	2.21	0.41
1:C:259:GLN:NE2	1:D:331:ARG:NH1	2.69	0.41
1:D:34:ASP:HB2	1:D:37:GLU:HG2	2.01	0.41
1:D:41:THR:O	1:D:44:LYS:HB2	2.21	0.41
1:D:158:GLU:OE1	1:E:182:VAL:HG21	2.20	0.41
1:D:621:GLU:CD	1:E:436:LEU:HD11	2.46	0.41
1:D:629:LEU:HD21	1:E:538:THR:HG22	2.01	0.41
1:F:596:TYR:CZ	1:F:600:SER:OG	2.72	0.41
1:G:41:THR:O	1:G:44:LYS:HB2	2.21	0.41
1:G:158:GLU:OE1	1:H:182:VAL:HG21	2.20	0.41
1:G:387:GLY:HA2	1:G:401:LEU:HD11	2.02	0.41
1:H:100:ARG:HA	1:H:102:LYS:HZ1	1.85	0.41
1:H:274:LYS:HG2	1:H:275:ALA:H	1.85	0.41
1:H:344:LEU:O	1:H:587:PRO:HA	2.20	0.41
1:H:647:ILE:HG21	2:W:122:GLN:HB3	2.03	0.41
1:I:135:ALA:HA	1:I:138:LEU:CD2	2.48	0.41
1:I:348:ILE:HD11	1:I:584:PHE:CD2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:119:GLU:O	1:K:121:ASP:N	2.54	0.41
1:K:123:VAL:HG22	1:K:168:ARG:HD2	2.01	0.41
1:K:265:THR:HG21	1:K:320:THR:HG22	2.02	0.41
1:K:363:GLN:HB2	1:K:372:THR:O	2.21	0.41
1:L:542:GLY:H	1:L:583:LEU:HB2	1.84	0.41
1:N:53:ASP:HB2	1:N:54:PRO:HD2	2.03	0.41
1:N:78:LEU:CG	1:N:121:ASP:HB3	2.50	0.41
1:N:232:ARG:HH21	1:N:233:THR:CG2	2.34	0.41
1:N:422:MET:C	1:N:423:LEU:HD22	2.45	0.41
1:N:542:GLY:H	1:N:583:LEU:HB2	1.84	0.41
1:O:78:LEU:CG	1:O:121:ASP:HB3	2.50	0.41
1:O:415:PHE:HB3	1:O:422:MET:SD	2.60	0.41
1:O:568:LEU:HG	1:O:569:PHE:CE1	2.56	0.41
2:W:55:THR:N	2:W:123:LEU:HD13	2.36	0.41
2:c:55:THR:N	2:c:123:LEU:HD13	2.36	0.41
3:j:107:LEU:HD23	3:j:107:LEU:C	2.45	0.41
1:A:41:THR:O	1:A:44:LYS:HB2	2.21	0.41
1:A:47:ASN:OD1	1:B:65:TYR:CD2	2.74	0.41
1:A:72:GLN:HA	1:A:75:GLN:HB2	2.03	0.41
1:A:104:ALA:HB1	1:A:109:VAL:HG11	2.02	0.41
1:A:119:GLU:O	1:A:121:ASP:N	2.54	0.41
1:A:335:GLN:OE1	1:O:267:VAL:HB	2.21	0.41
1:A:360:LEU:HA	1:A:425:THR:O	2.21	0.41
1:B:72:GLN:HA	1:B:75:GLN:HB2	2.03	0.41
1:B:90:ASN:HA	1:B:96:LEU:CA	2.51	0.41
1:B:265:THR:HG21	1:B:320:THR:HG22	2.02	0.41
1:B:415:PHE:HB3	1:B:422:MET:SD	2.60	0.41
1:B:568:LEU:HG	1:B:569:PHE:CE1	2.56	0.41
1:C:34:ASP:HB2	1:C:37:GLU:HG2	2.01	0.41
1:C:72:GLN:HA	1:C:75:GLN:HB2	2.03	0.41
1:C:166:THR:HG23	1:C:167:GLY:N	2.35	0.41
1:C:339:ARG:C	1:C:340:ARG:HE	2.26	0.41
1:C:621:GLU:CG	1:D:436:LEU:HD11	2.51	0.41
1:C:629:LEU:HD23	1:D:538:THR:HG22	2.00	0.41
1:D:90:ASN:HA	1:D:96:LEU:CA	2.51	0.41
1:D:119:GLU:O	1:D:121:ASP:N	2.54	0.41
1:D:475:VAL:CG2	1:E:518:LEU:CD2	2.98	0.41
1:E:46:LEU:HB2	1:E:73:TYR:HE2	1.85	0.41
1:E:232:ARG:HH21	1:E:233:THR:CG2	2.34	0.41
1:E:271:LYS:O	1:F:491:ASN:HB2	2.21	0.41
1:E:351:GLU:OE1	1:E:579:ARG:NH1	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:376:ASN:OD1	1:E:377:SER:N	2.53	0.41
1:E:564:VAL:HG23	1:E:565:ILE:HG12	2.02	0.41
1:F:41:THR:O	1:F:44:LYS:HB2	2.21	0.41
1:F:46:LEU:HB2	1:F:73:TYR:HE2	1.85	0.41
1:F:387:GLY:HA2	1:F:401:LEU:HD11	2.02	0.41
1:G:119:GLU:O	1:G:121:ASP:N	2.54	0.41
1:G:401:LEU:HA	1:G:401:LEU:HD13	1.68	0.41
1:G:568:LEU:HG	1:G:569:PHE:CE1	2.56	0.41
1:G:647:ILE:HG21	2:V:122:GLN:HB3	2.03	0.41
1:H:166:THR:HG23	1:H:167:GLY:N	2.35	0.41
1:H:360:LEU:HA	1:H:425:THR:O	2.21	0.41
1:H:411:ILE:HG12	1:I:556:VAL:CG2	2.51	0.41
1:I:172:ILE:HD13	1:I:172:ILE:HA	1.90	0.41
1:I:262:GLN:N	1:J:331:ARG:HH22	2.09	0.41
1:I:267:VAL:HG22	1:I:318:ILE:HG12	2.03	0.41
1:I:363:GLN:HB2	1:I:372:THR:O	2.21	0.41
1:I:387:GLY:HA2	1:I:401:LEU:HD11	2.02	0.41
1:I:411:ILE:HA	1:J:371:MET:O	2.21	0.41
1:I:459:VAL:HG12	1:I:460:LEU:N	2.35	0.41
1:I:568:LEU:HG	1:I:569:PHE:CE1	2.56	0.41
1:I:647:ILE:HG21	2:X:122:GLN:HB3	2.03	0.41
1:J:45:ASN:CB	3:n:108:LEU:CD2	2.46	0.41
1:J:91:MET:HG3	1:J:92:ASN:N	2.34	0.41
1:J:159:PRO:HD3	1:K:137:ASP:OD2	2.20	0.41
1:J:348:ILE:HD11	1:J:584:PHE:CD2	2.55	0.41
1:J:390:GLN:HG2	1:J:401:LEU:HD21	2.01	0.41
1:J:542:GLY:H	1:J:583:LEU:HB2	1.84	0.41
1:K:500:ILE:O	1:K:528:ASN:HA	2.21	0.41
1:L:100:ARG:HA	1:L:102:LYS:NZ	2.36	0.41
1:L:104:ALA:HB1	1:L:109:VAL:HG11	2.02	0.41
1:L:422:MET:C	1:L:423:LEU:HD22	2.45	0.41
1:L:457:VAL:N	1:L:478:LYS:O	2.43	0.41
1:L:500:ILE:O	1:L:528:ASN:HA	2.21	0.41
1:M:78:LEU:CG	1:M:121:ASP:HB3	2.50	0.41
1:M:100:ARG:HA	1:M:102:LYS:NZ	2.36	0.41
1:M:227:VAL:HG22	1:M:238:VAL:HG12	2.02	0.41
1:M:231:GLU:OE1	1:M:231:GLU:N	2.53	0.41
1:M:422:MET:C	1:M:423:LEU:HD22	2.45	0.41
1:M:459:VAL:HG12	1:M:460:LEU:N	2.35	0.41
1:M:600:SER:OG	1:N:540:VAL:HG12	2.20	0.41
1:N:195:LEU:HA	1:N:195:LEU:HD12	1.71	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:363:GLN:HB2	1:N:372:THR:O	2.21	0.41
1:O:46:LEU:HB2	1:O:73:TYR:HE2	1.85	0.41
1:O:564:VAL:HG23	1:O:565:ILE:HG12	2.02	0.41
2:P:55:THR:N	2:P:123:LEU:HD13	2.36	0.41
2:Z:55:THR:N	2:Z:123:LEU:HD13	2.36	0.41
1:C:278:LEU:HA	1:C:278:LEU:HD23	1.86	0.41
1:D:360:LEU:HA	1:D:425:THR:O	2.21	0.41
1:D:459:VAL:HG12	1:D:460:LEU:N	2.35	0.41
1:E:39:ILE:O	1:E:43:SER:OG	2.36	0.41
1:E:41:THR:O	1:E:44:LYS:HB2	2.21	0.41
1:F:363:GLN:HB2	1:F:372:THR:O	2.21	0.41
1:G:166:THR:HG23	1:G:167:GLY:N	2.35	0.41
1:G:199:SER:CA	1:H:324:ASP:OD2	2.60	0.41
1:G:267:VAL:HG22	1:G:318:ILE:HG12	2.03	0.41
1:G:341:PRO:HG3	1:G:591:ARG:NH2	2.36	0.41
1:G:409:ASN:OD1	1:H:375:THR:HG23	2.21	0.41
1:H:46:LEU:HB2	1:H:73:TYR:HE2	1.85	0.41
1:H:341:PRO:HG3	1:H:591:ARG:NH2	2.36	0.41
1:H:500:ILE:O	1:H:528:ASN:HA	2.21	0.41
1:J:53:ASP:HB2	1:J:54:PRO:HD2	2.03	0.41
1:J:199:SER:CA	1:K:324:ASP:OD2	2.62	0.41
1:J:267:VAL:HG22	1:J:318:ILE:HG12	2.03	0.41
1:J:621:GLU:CD	1:K:436:LEU:HD11	2.45	0.41
1:K:422:MET:C	1:K:423:LEU:HD22	2.45	0.41
1:L:227:VAL:HG22	1:L:238:VAL:HG12	2.02	0.41
1:L:267:VAL:HG22	1:L:318:ILE:HG12	2.03	0.41
1:L:390:GLN:HG2	1:L:401:LEU:HD21	2.01	0.41
1:M:104:ALA:HB1	1:M:109:VAL:HG11	2.02	0.41
1:M:500:ILE:O	1:M:528:ASN:HA	2.21	0.41
1:N:100:ARG:HA	1:N:102:LYS:NZ	2.36	0.41
1:N:104:ALA:HB1	1:N:109:VAL:HG11	2.02	0.41
1:N:596:TYR:CZ	1:N:600:SER:OG	2.72	0.41
1:N:629:LEU:HD21	1:O:538:THR:HG22	2.03	0.41
1:O:119:GLU:O	1:O:121:ASP:N	2.54	0.41
2:S:55:THR:N	2:S:123:LEU:HD13	2.36	0.41
3:h:146:LEU:HD12	3:h:149:ARG:HE	1.86	0.41
1:A:215:SER:HB3	1:O:221:GLY:N	2.33	0.40
1:A:459:VAL:HG12	1:A:460:LEU:N	2.35	0.40
1:A:520:ALA:HB1	1:A:522:PHE:CD2	2.54	0.40
1:A:564:VAL:HG23	1:A:565:ILE:HG12	2.02	0.40
1:A:600:SER:OG	1:B:540:VAL:HG12	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:265:THR:HG21	1:C:320:THR:HG22	2.01	0.40
1:E:53:ASP:HB2	1:E:54:PRO:HD2	2.03	0.40
1:E:344:LEU:O	1:E:587:PRO:HA	2.20	0.40
1:E:387:GLY:HA2	1:E:401:LEU:HD11	2.02	0.40
1:F:341:PRO:HG3	1:F:591:ARG:NH2	2.36	0.40
1:F:647:ILE:HG21	2:U:122:GLN:HB3	2.03	0.40
1:G:186:GLY:O	1:G:241:GLU:HG3	2.21	0.40
1:G:221:GLY:HA3	1:H:215:SER:H	1.87	0.40
1:I:166:THR:HG23	1:I:167:GLY:N	2.35	0.40
1:J:48:LYS:HB3	1:J:95:VAL:CG1	2.41	0.40
1:J:325:VAL:O	1:J:325:VAL:CG2	2.69	0.40
1:K:267:VAL:HG22	1:K:318:ILE:HG12	2.03	0.40
1:K:475:VAL:CG2	1:L:518:LEU:CD2	2.98	0.40
1:K:621:GLU:CD	1:L:436:LEU:HD11	2.46	0.40
1:O:41:THR:O	1:O:44:LYS:HB2	2.21	0.40
1:O:90:ASN:HA	1:O:96:LEU:CA	2.51	0.40
1:O:100:ARG:HA	1:O:102:LYS:NZ	2.36	0.40
1:O:104:ALA:HB1	1:O:109:VAL:HG11	2.02	0.40
1:O:232:ARG:HH21	1:O:233:THR:CG2	2.34	0.40
2:V:55:THR:N	2:V:123:LEU:HD13	2.36	0.40
2:V:105:LEU:HD22	2:V:119:PHE:CZ	2.56	0.40
2:b:55:THR:N	2:b:123:LEU:HD13	2.36	0.40
2:d:55:THR:N	2:d:123:LEU:HD13	2.36	0.40
3:q:107:LEU:HD23	3:q:107:LEU:C	2.45	0.40
1:A:215:SER:H	1:O:221:GLY:HA3	1.86	0.40
1:C:568:LEU:HG	1:C:569:PHE:CE1	2.56	0.40
1:D:166:THR:HG23	1:D:167:GLY:N	2.35	0.40
1:D:351:GLU:OE1	1:D:579:ARG:NH1	2.39	0.40
1:E:341:PRO:HG3	1:E:591:ARG:NH2	2.36	0.40
1:F:119:GLU:O	1:F:121:ASP:N	2.54	0.40
1:F:166:THR:HG23	1:F:167:GLY:N	2.35	0.40
1:F:186:GLY:O	1:F:241:GLU:HG3	2.21	0.40
1:F:227:VAL:HG22	1:F:238:VAL:HG12	2.02	0.40
1:F:232:ARG:HH21	1:F:233:THR:CG2	2.34	0.40
1:F:267:VAL:HG22	1:F:318:ILE:HG12	2.03	0.40
1:G:90:ASN:HA	1:G:96:LEU:CA	2.51	0.40
1:G:271:LYS:N	1:G:337:ASP:OD2	2.33	0.40
1:H:186:GLY:O	1:H:241:GLU:HG3	2.22	0.40
1:H:232:ARG:HH21	1:H:233:THR:CG2	2.34	0.40
1:H:325:VAL:O	1:H:325:VAL:CG2	2.69	0.40
1:H:363:GLN:HB2	1:H:372:THR:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:186:GLY:O	1:I:241:GLU:HG3	2.21	0.40
1:I:227:VAL:HG22	1:I:238:VAL:HG12	2.02	0.40
1:I:341:PRO:HG3	1:I:591:ARG:NH2	2.36	0.40
1:I:422:MET:C	1:I:423:LEU:HD22	2.45	0.40
1:I:515:SER:O	1:I:516:SER:OG	2.30	0.40
1:J:387:GLY:HA2	1:J:401:LEU:HD11	2.02	0.40
1:J:500:ILE:O	1:J:528:ASN:HA	2.21	0.40
1:J:647:ILE:HG21	2:Y:122:GLN:HB3	2.03	0.40
1:K:53:ASP:HB2	1:K:54:PRO:HD2	2.03	0.40
1:K:227:VAL:HG22	1:K:238:VAL:HG12	2.02	0.40
1:K:325:VAL:C	1:K:327:ASN:N	2.79	0.40
1:L:119:GLU:O	1:L:121:ASP:N	2.54	0.40
1:L:360:LEU:HA	1:L:425:THR:O	2.21	0.40
1:L:363:GLN:HB2	1:L:372:THR:O	2.21	0.40
1:L:647:ILE:HG21	2:a:122:GLN:HB3	2.03	0.40
1:O:248:ILE:HA	1:O:251:MET:HE2	2.03	0.40
2:U:105:LEU:HD22	2:U:119:PHE:CZ	2.56	0.40
2:W:105:LEU:HD22	2:W:119:PHE:CZ	2.56	0.40
3:f:146:LEU:HD12	3:f:149:ARG:HE	1.87	0.40
3:j:146:LEU:HD12	3:j:149:ARG:HE	1.86	0.40
3:r:107:LEU:HD23	3:r:107:LEU:C	2.45	0.40
3:s:107:LEU:HD23	3:s:107:LEU:C	2.45	0.40
1:A:100:ARG:HA	1:A:102:LYS:NZ	2.36	0.40
1:A:248:ILE:HA	1:A:251:MET:HE2	2.03	0.40
1:E:90:ASN:HA	1:E:96:LEU:CA	2.51	0.40
1:F:568:LEU:HG	1:F:569:PHE:CE1	2.56	0.40
1:G:500:ILE:O	1:G:528:ASN:HA	2.21	0.40
1:H:267:VAL:HG22	1:H:318:ILE:HG12	2.03	0.40
1:H:411:ILE:CG2	1:I:372:THR:HG22	2.49	0.40
1:I:607:PHE:CE1	1:J:580:ASN:HB2	2.56	0.40
1:J:41:THR:O	1:J:44:LYS:HB2	2.21	0.40
1:K:100:ARG:HA	1:K:102:LYS:NZ	2.36	0.40
1:K:135:ALA:HA	1:K:138:LEU:CD2	2.48	0.40
1:K:339:ARG:C	1:K:340:ARG:HE	2.26	0.40
1:K:647:ILE:HG21	2:Z:122:GLN:HB3	2.03	0.40
1:M:267:VAL:HG22	1:M:318:ILE:HG12	2.03	0.40
1:M:603:GLN:OE1	1:N:582:MET:HE1	2.21	0.40
1:M:647:ILE:HG21	2:b:122:GLN:HB3	2.03	0.40
1:N:72:GLN:HA	1:N:75:GLN:HB2	2.03	0.40
1:N:475:VAL:CG2	1:O:518:LEU:CD2	2.97	0.40
1:N:500:ILE:O	1:N:528:ASN:HA	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:568:LEU:HG	1:N:569:PHE:CE1	2.56	0.40
1:O:72:GLN:HA	1:O:75:GLN:HB2	2.03	0.40
1:O:172:ILE:HD13	1:O:172:ILE:HA	1.90	0.40
1:O:265:THR:HG21	1:O:320:THR:HG22	2.02	0.40
2:R:55:THR:N	2:R:123:LEU:HD13	2.36	0.40
2:X:105:LEU:HD22	2:X:119:PHE:CZ	2.56	0.40
3:k:146:LEU:HD12	3:k:149:ARG:HE	1.87	0.40
3:m:146:LEU:HD12	3:m:149:ARG:HE	1.87	0.40
1:A:53:ASP:HB2	1:A:54:PRO:HD2	2.03	0.40
1:A:271:LYS:N	1:A:337:ASP:OD2	2.33	0.40
1:A:436:LEU:HD13	1:O:621:GLU:HG2	2.04	0.40
1:A:443:THR:HG23	1:A:444:LEU:O	2.22	0.40
1:A:561:ASP:OD1	1:A:562:ILE:N	2.55	0.40
1:C:90:ASN:HA	1:C:96:LEU:CA	2.51	0.40
1:C:231:GLU:OE1	1:C:231:GLU:N	2.53	0.40
1:D:72:GLN:HA	1:D:75:GLN:HB2	2.03	0.40
1:D:387:GLY:HA2	1:D:401:LEU:HD11	2.02	0.40
1:D:564:VAL:HG23	1:D:565:ILE:HG12	2.02	0.40
1:E:100:ARG:HA	1:E:102:LYS:NZ	2.36	0.40
1:E:119:GLU:O	1:E:121:ASP:N	2.54	0.40
1:E:607:PHE:CE1	1:F:580:ASN:HB2	2.56	0.40
1:F:90:ASN:HA	1:F:96:LEU:CA	2.51	0.40
1:G:441:ILE:HG13	1:G:442:VAL:H	1.86	0.40
1:G:443:THR:HG23	1:G:444:LEU:O	2.22	0.40
1:H:41:THR:O	1:H:44:LYS:HB2	2.21	0.40
1:H:325:VAL:C	1:H:327:ASN:N	2.79	0.40
1:I:248:ILE:HA	1:I:251:MET:HE2	2.03	0.40
1:I:360:LEU:HA	1:I:425:THR:O	2.21	0.40
1:I:500:ILE:O	1:I:528:ASN:HA	2.21	0.40
1:J:186:GLY:O	1:J:241:GLU:HG3	2.22	0.40
1:J:227:VAL:HG22	1:J:238:VAL:HG12	2.02	0.40
1:J:434:ASP:HB3	1:K:549:VAL:HG12	2.04	0.40
1:J:443:THR:HG23	1:J:444:LEU:O	2.22	0.40
1:K:41:THR:O	1:K:44:LYS:HB2	2.21	0.40
1:L:41:THR:O	1:L:44:LYS:HB2	2.21	0.40
1:L:265:THR:HG21	1:L:320:THR:HG22	2.02	0.40
1:M:41:THR:O	1:M:44:LYS:HB2	2.21	0.40
1:M:248:ILE:HA	1:M:251:MET:HE2	2.03	0.40
1:M:278:LEU:HD23	1:M:278:LEU:HA	1.86	0.40
1:M:325:VAL:C	1:M:327:ASN:N	2.79	0.40
1:M:341:PRO:HG3	1:M:591:ARG:NH2	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:363:GLN:HB2	1:M:372:THR:O	2.21	0.40
1:M:443:THR:HG23	1:M:444:LEU:O	2.22	0.40
1:M:561:ASP:OD1	1:M:562:ILE:N	2.55	0.40
1:N:41:THR:O	1:N:44:LYS:HB2	2.21	0.40
1:O:500:ILE:O	1:O:528:ASN:HA	2.21	0.40
2:T:105:LEU:HD22	2:T:119:PHE:CZ	2.56	0.40
2:Z:105:LEU:HD22	2:Z:119:PHE:CZ	2.56	0.40
3:h:107:LEU:HD23	3:h:107:LEU:C	2.45	0.40
3:p:107:LEU:HD23	3:p:107:LEU:C	2.45	0.40
1:A:278:LEU:HD23	1:A:278:LEU:HA	1.86	0.40
1:B:248:ILE:HA	1:B:251:MET:HE2	2.03	0.40
1:C:79:SER:O	1:C:82:ASP:HB2	2.22	0.40
1:C:232:ARG:HH21	1:C:233:THR:CG2	2.34	0.40
1:C:387:GLY:HA2	1:C:401:LEU:HD11	2.02	0.40
1:C:607:PHE:CE1	1:D:580:ASN:HB2	2.57	0.40
1:D:248:ILE:HA	1:D:251:MET:HE2	2.03	0.40
1:D:341:PRO:HG3	1:D:591:ARG:NH2	2.36	0.40
1:D:561:ASP:OD1	1:D:562:ILE:N	2.55	0.40
1:E:186:GLY:O	1:E:241:GLU:HG3	2.22	0.40
1:E:500:ILE:O	1:E:528:ASN:HA	2.21	0.40
1:E:603:GLN:OE1	1:F:582:MET:HE1	2.21	0.40
1:E:621:GLU:HG2	1:F:436:LEU:HD13	2.02	0.40
1:F:477:ARG:HH11	1:G:459:VAL:HB	1.75	0.40
1:F:561:ASP:OD1	1:F:562:ILE:N	2.55	0.40
1:G:51:ILE:HD12	1:H:80:VAL:HG22	2.04	0.40
1:G:325:VAL:C	1:G:327:ASN:N	2.79	0.40
1:H:227:VAL:HG22	1:H:238:VAL:HG12	2.02	0.40
1:H:441:ILE:HG13	1:H:442:VAL:H	1.87	0.40
1:I:41:THR:O	1:I:44:LYS:HB2	2.21	0.40
1:I:441:ILE:HG13	1:I:442:VAL:H	1.86	0.40
1:J:100:ARG:HA	1:J:102:LYS:NZ	2.36	0.40
1:J:166:THR:HG23	1:J:167:GLY:N	2.35	0.40
1:J:248:ILE:HA	1:J:251:MET:HE2	2.03	0.40
1:J:271:LYS:O	1:K:491:ASN:HB2	2.22	0.40
1:J:581:LEU:HD12	1:J:581:LEU:HA	1.86	0.40
1:K:105:LYS:HG2	1:K:105:LYS:H	1.73	0.40
1:K:171:VAL:HG13	1:K:174:ARG:NE	2.28	0.40
1:K:232:ARG:HH21	1:K:233:THR:CG2	2.34	0.40
1:L:248:ILE:HA	1:L:251:MET:HE2	2.03	0.40
1:L:603:GLN:OE1	1:M:582:MET:HE1	2.22	0.40
1:M:46:LEU:HB2	1:M:73:TYR:HE2	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:351:GLU:OE1	1:M:579:ARG:NH1	2.39	0.40
1:N:248:ILE:HA	1:N:251:MET:HE2	2.03	0.40
2:S:105:LEU:HD22	2:S:119:PHE:CZ	2.56	0.40
2:Y:55:THR:N	2:Y:123:LEU:HD13	2.36	0.40
2:a:121:ARG:O	2:a:121:ARG:HG2	2.22	0.40
2:b:121:ARG:O	2:b:121:ARG:HG2	2.22	0.40
2:d:121:ARG:HG2	2:d:121:ARG:O	2.22	0.40
3:e:107:LEU:HD23	3:e:107:LEU:C	2.45	0.40
3:e:146:LEU:HD12	3:e:149:ARG:HE	1.87	0.40
3:i:107:LEU:HD23	3:i:107:LEU:C	2.45	0.40
3:o:146:LEU:HD12	3:o:149:ARG:HE	1.87	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	584/657 (89%)	516 (88%)	68 (12%)	0	100	100
1	B	584/657 (89%)	515 (88%)	69 (12%)	0	100	100
1	C	584/657 (89%)	516 (88%)	68 (12%)	0	100	100
1	D	584/657 (89%)	516 (88%)	68 (12%)	0	100	100
1	E	584/657 (89%)	516 (88%)	68 (12%)	0	100	100
1	F	584/657 (89%)	515 (88%)	69 (12%)	0	100	100
1	G	584/657 (89%)	516 (88%)	68 (12%)	0	100	100
1	H	584/657 (89%)	516 (88%)	68 (12%)	0	100	100
1	I	584/657 (89%)	516 (88%)	68 (12%)	0	100	100
1	J	584/657 (89%)	516 (88%)	68 (12%)	0	100	100
1	K	584/657 (89%)	516 (88%)	68 (12%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	L	584/657 (89%)	516 (88%)	68 (12%)	0	100	100
1	M	584/657 (89%)	516 (88%)	68 (12%)	0	100	100
1	N	584/657 (89%)	516 (88%)	68 (12%)	0	100	100
1	O	584/657 (89%)	516 (88%)	68 (12%)	0	100	100
2	P	91/143 (64%)	89 (98%)	2 (2%)	0	100	100
2	Q	91/143 (64%)	89 (98%)	2 (2%)	0	100	100
2	R	91/143 (64%)	89 (98%)	2 (2%)	0	100	100
2	S	91/143 (64%)	89 (98%)	2 (2%)	0	100	100
2	T	91/143 (64%)	89 (98%)	2 (2%)	0	100	100
2	U	91/143 (64%)	89 (98%)	2 (2%)	0	100	100
2	V	91/143 (64%)	89 (98%)	2 (2%)	0	100	100
2	W	91/143 (64%)	89 (98%)	2 (2%)	0	100	100
2	X	91/143 (64%)	89 (98%)	2 (2%)	0	100	100
2	Y	91/143 (64%)	89 (98%)	2 (2%)	0	100	100
2	Z	91/143 (64%)	89 (98%)	2 (2%)	0	100	100
2	a	91/143 (64%)	89 (98%)	2 (2%)	0	100	100
2	b	91/143 (64%)	89 (98%)	2 (2%)	0	100	100
2	c	91/143 (64%)	89 (98%)	2 (2%)	0	100	100
2	d	91/143 (64%)	89 (98%)	2 (2%)	0	100	100
3	e	66/280 (24%)	63 (96%)	3 (4%)	0	100	100
3	f	66/280 (24%)	63 (96%)	3 (4%)	0	100	100
3	g	66/280 (24%)	63 (96%)	3 (4%)	0	100	100
3	h	66/280 (24%)	63 (96%)	3 (4%)	0	100	100
3	i	66/280 (24%)	63 (96%)	3 (4%)	0	100	100
3	j	66/280 (24%)	63 (96%)	3 (4%)	0	100	100
3	k	66/280 (24%)	63 (96%)	3 (4%)	0	100	100
3	l	66/280 (24%)	63 (96%)	3 (4%)	0	100	100
3	m	66/280 (24%)	63 (96%)	3 (4%)	0	100	100
3	n	66/280 (24%)	63 (96%)	3 (4%)	0	100	100
3	o	66/280 (24%)	63 (96%)	3 (4%)	0	100	100
3	p	66/280 (24%)	63 (96%)	3 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	q	66/280 (24%)	63 (96%)	3 (4%)	0	100	100
3	r	66/280 (24%)	63 (96%)	3 (4%)	0	100	100
3	s	66/280 (24%)	63 (96%)	3 (4%)	0	100	100
All	All	11115/16200 (69%)	10018 (90%)	1097 (10%)	0	100	100

There are no Ramachandran outliers to report.

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	490/544 (90%)	490 (100%)	0	100	100
1	B	490/544 (90%)	490 (100%)	0	100	100
1	C	490/544 (90%)	490 (100%)	0	100	100
1	D	490/544 (90%)	490 (100%)	0	100	100
1	E	490/544 (90%)	490 (100%)	0	100	100
1	F	490/544 (90%)	490 (100%)	0	100	100
1	G	490/544 (90%)	490 (100%)	0	100	100
1	H	490/544 (90%)	490 (100%)	0	100	100
1	I	490/544 (90%)	490 (100%)	0	100	100
1	J	490/544 (90%)	490 (100%)	0	100	100
1	K	490/544 (90%)	490 (100%)	0	100	100
1	L	490/544 (90%)	490 (100%)	0	100	100
1	M	490/544 (90%)	490 (100%)	0	100	100
1	N	490/544 (90%)	490 (100%)	0	100	100
1	O	490/544 (90%)	490 (100%)	0	100	100
2	P	78/123 (63%)	78 (100%)	0	100	100
2	Q	78/123 (63%)	78 (100%)	0	100	100
2	R	78/123 (63%)	78 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	S	78/123 (63%)	78 (100%)	0	100	100
2	T	78/123 (63%)	78 (100%)	0	100	100
2	U	78/123 (63%)	78 (100%)	0	100	100
2	V	78/123 (63%)	78 (100%)	0	100	100
2	W	78/123 (63%)	78 (100%)	0	100	100
2	X	78/123 (63%)	78 (100%)	0	100	100
2	Y	78/123 (63%)	78 (100%)	0	100	100
2	Z	78/123 (63%)	78 (100%)	0	100	100
2	a	78/123 (63%)	78 (100%)	0	100	100
2	b	78/123 (63%)	78 (100%)	0	100	100
2	c	78/123 (63%)	78 (100%)	0	100	100
2	d	78/123 (63%)	78 (100%)	0	100	100
3	e	55/236 (23%)	55 (100%)	0	100	100
3	f	55/236 (23%)	55 (100%)	0	100	100
3	g	55/236 (23%)	55 (100%)	0	100	100
3	h	55/236 (23%)	55 (100%)	0	100	100
3	i	55/236 (23%)	55 (100%)	0	100	100
3	j	55/236 (23%)	55 (100%)	0	100	100
3	k	55/236 (23%)	55 (100%)	0	100	100
3	l	55/236 (23%)	55 (100%)	0	100	100
3	m	55/236 (23%)	55 (100%)	0	100	100
3	n	55/236 (23%)	55 (100%)	0	100	100
3	o	55/236 (23%)	55 (100%)	0	100	100
3	p	55/236 (23%)	55 (100%)	0	100	100
3	q	55/236 (23%)	55 (100%)	0	100	100
3	r	55/236 (23%)	55 (100%)	0	100	100
3	s	55/236 (23%)	55 (100%)	0	100	100
All	All	9345/13545 (69%)	9345 (100%)	0	100	100

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

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (260) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	47	ASN
1	A	90	ASN
1	A	92	ASN
1	A	148	ASN
1	A	156	HIS
1	A	254	GLN
1	A	259	GLN
1	A	262	GLN
1	A	353	GLN
1	A	373	GLN
1	A	448	GLN
1	A	489	GLN
1	A	611	GLN
1	B	47	ASN
1	B	90	ASN
1	B	92	ASN
1	B	148	ASN
1	B	156	HIS
1	B	254	GLN
1	B	259	GLN
1	B	262	GLN
1	B	353	GLN
1	B	373	GLN
1	B	448	GLN
1	B	489	GLN
1	B	611	GLN
1	C	47	ASN
1	C	90	ASN
1	C	92	ASN
1	C	144	GLN
1	C	148	ASN
1	C	156	HIS
1	C	254	GLN
1	C	259	GLN
1	C	262	GLN
1	C	353	GLN
1	C	373	GLN
1	C	448	GLN
1	C	489	GLN
1	C	611	GLN
1	D	47	ASN
1	D	90	ASN
1	D	92	ASN

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Mol	Chain	Res	Type
1	D	144	GLN
1	D	148	ASN
1	D	156	HIS
1	D	254	GLN
1	D	259	GLN
1	D	262	GLN
1	D	353	GLN
1	D	373	GLN
1	D	448	GLN
1	D	489	GLN
1	D	529	ASN
1	D	611	GLN
1	E	47	ASN
1	E	90	ASN
1	E	144	GLN
1	E	148	ASN
1	E	156	HIS
1	E	254	GLN
1	E	259	GLN
1	E	262	GLN
1	E	353	GLN
1	E	373	GLN
1	E	448	GLN
1	E	489	GLN
1	E	611	GLN
1	F	47	ASN
1	F	90	ASN
1	F	146	ASN
1	F	148	ASN
1	F	156	HIS
1	F	254	GLN
1	F	259	GLN
1	F	262	GLN
1	F	353	GLN
1	F	373	GLN
1	F	448	GLN
1	F	489	GLN
1	F	611	GLN
1	G	47	ASN
1	G	90	ASN
1	G	92	ASN
1	G	148	ASN

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Mol	Chain	Res	Type
1	G	156	HIS
1	G	254	GLN
1	G	259	GLN
1	G	262	GLN
1	G	353	GLN
1	G	373	GLN
1	G	448	GLN
1	G	489	GLN
1	G	611	GLN
1	H	47	ASN
1	H	90	ASN
1	H	92	ASN
1	H	144	GLN
1	H	148	ASN
1	H	156	HIS
1	H	254	GLN
1	H	259	GLN
1	H	262	GLN
1	H	353	GLN
1	H	373	GLN
1	H	448	GLN
1	H	489	GLN
1	H	611	GLN
1	I	47	ASN
1	I	90	ASN
1	I	92	ASN
1	I	148	ASN
1	I	156	HIS
1	I	254	GLN
1	I	259	GLN
1	I	262	GLN
1	I	353	GLN
1	I	373	GLN
1	I	448	GLN
1	I	489	GLN
1	I	529	ASN
1	I	611	GLN
1	J	47	ASN
1	J	90	ASN
1	J	144	GLN
1	J	148	ASN
1	J	156	HIS

Continued on next page...

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Mol	Chain	Res	Type
1	J	254	GLN
1	J	259	GLN
1	J	262	GLN
1	J	353	GLN
1	J	373	GLN
1	J	448	GLN
1	J	489	GLN
1	J	529	ASN
1	J	611	GLN
1	K	47	ASN
1	K	90	ASN
1	K	148	ASN
1	K	156	HIS
1	K	254	GLN
1	K	259	GLN
1	K	262	GLN
1	K	353	GLN
1	K	373	GLN
1	K	448	GLN
1	K	489	GLN
1	K	611	GLN
1	L	47	ASN
1	L	90	ASN
1	L	92	ASN
1	L	144	GLN
1	L	148	ASN
1	L	156	HIS
1	L	254	GLN
1	L	259	GLN
1	L	262	GLN
1	L	353	GLN
1	L	373	GLN
1	L	448	GLN
1	L	489	GLN
1	L	611	GLN
1	M	47	ASN
1	M	90	ASN
1	M	92	ASN
1	M	148	ASN
1	M	156	HIS
1	M	254	GLN
1	M	259	GLN

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Mol	Chain	Res	Type
1	M	262	GLN
1	M	353	GLN
1	M	373	GLN
1	M	448	GLN
1	M	489	GLN
1	M	611	GLN
1	N	47	ASN
1	N	90	ASN
1	N	92	ASN
1	N	148	ASN
1	N	156	HIS
1	N	254	GLN
1	N	259	GLN
1	N	262	GLN
1	N	353	GLN
1	N	373	GLN
1	N	448	GLN
1	N	489	GLN
1	N	611	GLN
1	O	47	ASN
1	O	90	ASN
1	O	92	ASN
1	O	148	ASN
1	O	156	HIS
1	O	254	GLN
1	O	259	GLN
1	O	262	GLN
1	O	353	GLN
1	O	373	GLN
1	O	448	GLN
1	O	489	GLN
1	O	611	GLN
2	P	97	ASN
2	P	104	GLN
2	P	120	ASN
2	Q	97	ASN
2	Q	103	GLN
2	Q	104	GLN
2	Q	120	ASN
2	R	44	GLN
2	R	97	ASN
2	R	103	GLN

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Mol	Chain	Res	Type
2	R	120	ASN
2	S	97	ASN
2	S	104	GLN
2	S	107	GLN
2	S	120	ASN
2	T	44	GLN
2	T	97	ASN
2	T	103	GLN
2	T	104	GLN
2	T	120	ASN
2	U	97	ASN
2	U	104	GLN
2	U	107	GLN
2	U	120	ASN
2	V	44	GLN
2	V	97	ASN
2	V	103	GLN
2	V	104	GLN
2	V	120	ASN
2	W	97	ASN
2	W	104	GLN
2	W	107	GLN
2	W	120	ASN
2	X	97	ASN
2	X	104	GLN
2	X	107	GLN
2	X	120	ASN
2	Y	97	ASN
2	Y	103	GLN
2	Y	104	GLN
2	Y	120	ASN
2	Z	44	GLN
2	Z	97	ASN
2	Z	104	GLN
2	Z	120	ASN
2	a	44	GLN
2	a	97	ASN
2	a	104	GLN
2	a	107	GLN
2	b	44	GLN
2	b	97	ASN
2	b	104	GLN

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Mol	Chain	Res	Type
2	b	107	GLN
2	c	44	GLN
2	c	97	ASN
2	c	104	GLN
2	d	97	ASN
2	d	104	GLN
2	d	107	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

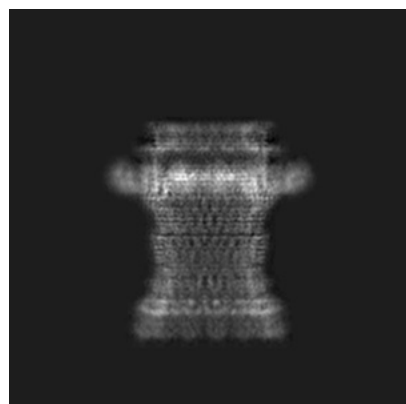
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-0193. These allow visual inspection of the internal detail of the map and identification of artifacts.

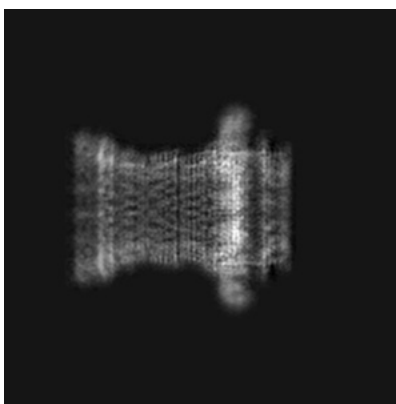
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

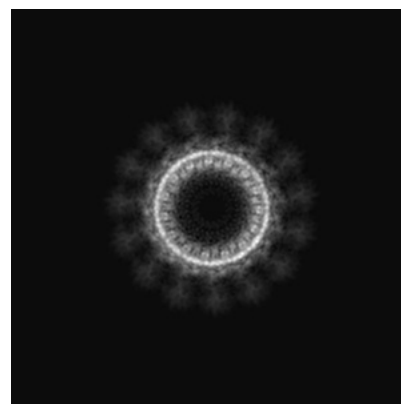
6.1.1 Primary map



X

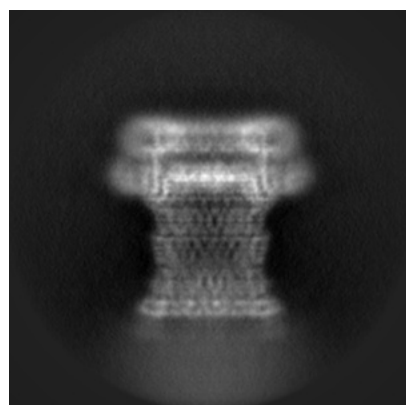


Y

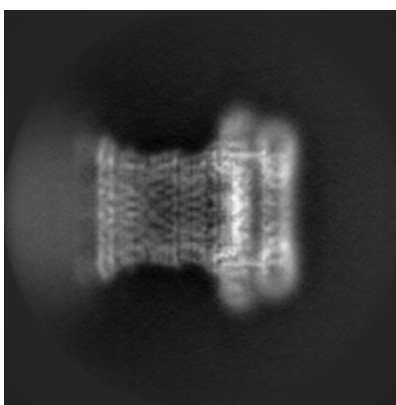


Z

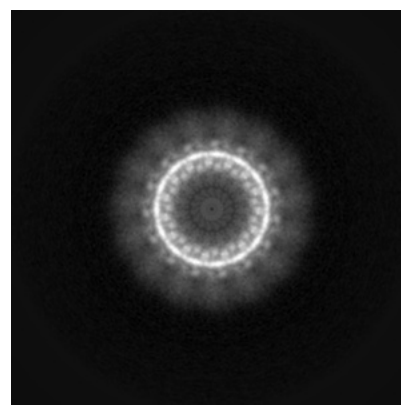
6.1.2 Raw map



X



Y



Z

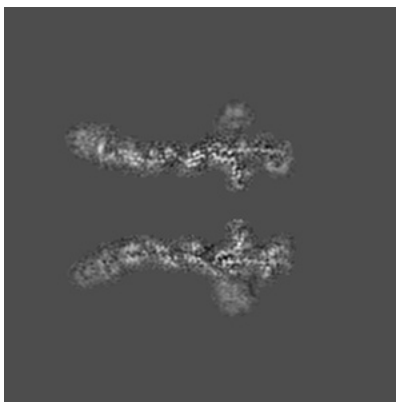
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

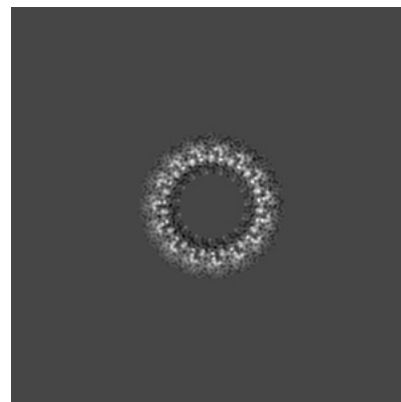
6.2.1 Primary map



X Index: 115

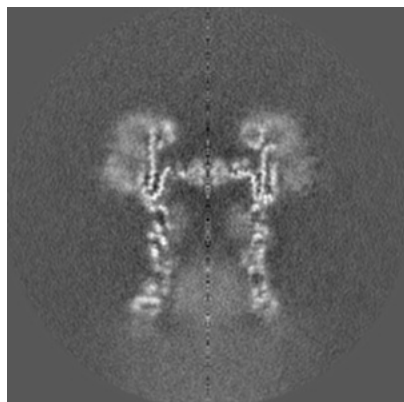


Y Index: 115

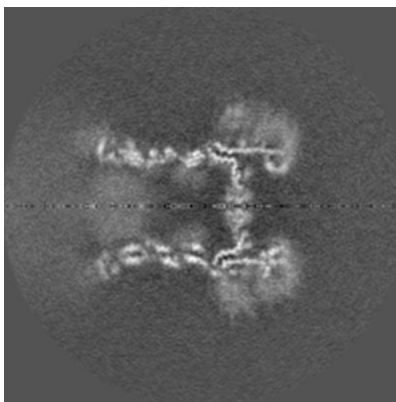


Z Index: 115

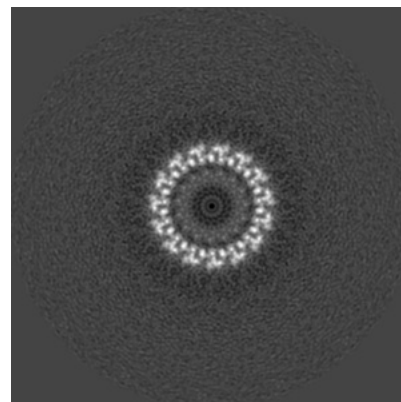
6.2.2 Raw map



X Index: 115



Y Index: 115

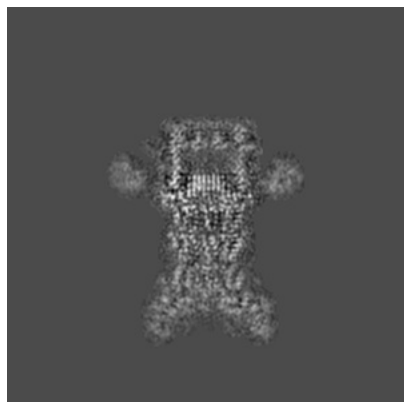


Z Index: 115

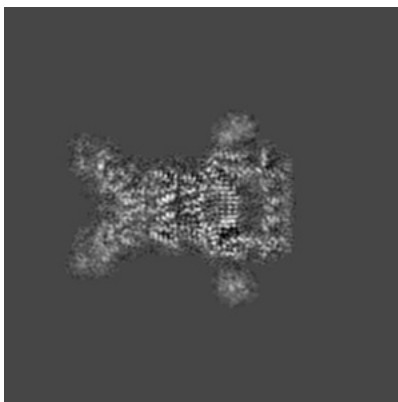
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

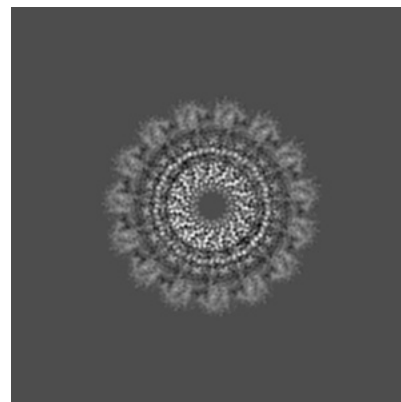
6.3.1 Primary map



X Index: 141

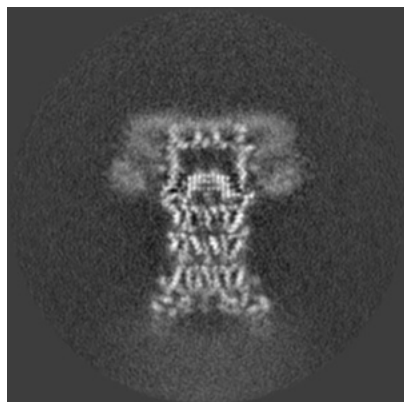


Y Index: 140

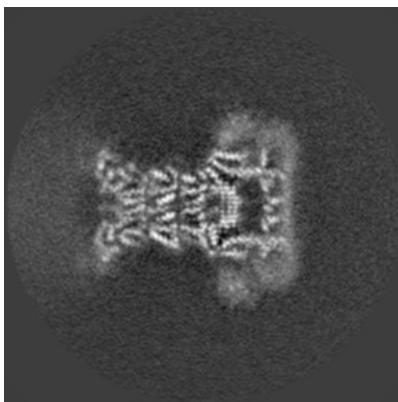


Z Index: 134

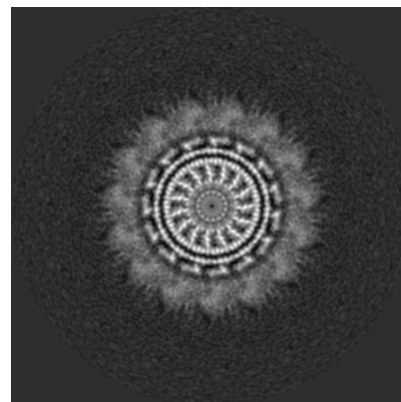
6.3.2 Raw map



X Index: 140



Y Index: 140

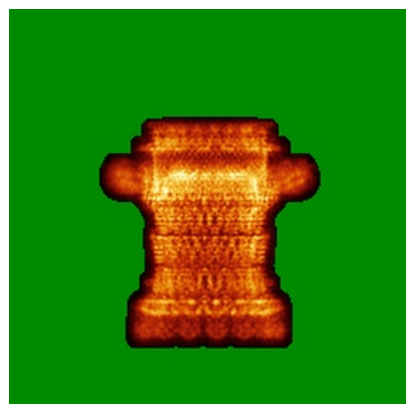


Z Index: 132

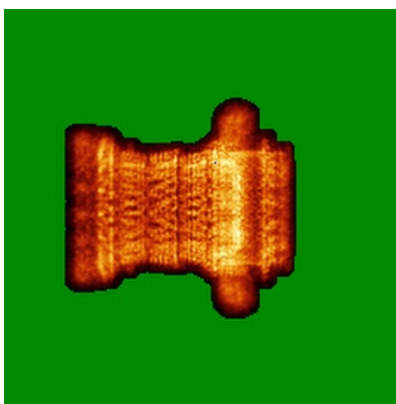
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

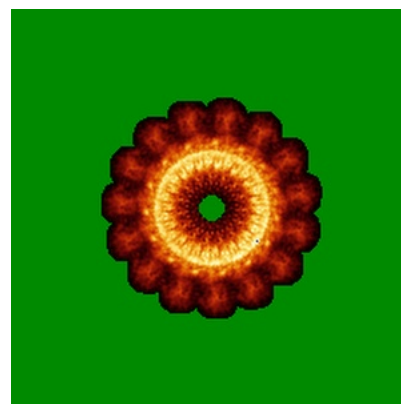
6.4.1 Primary map



X



Y

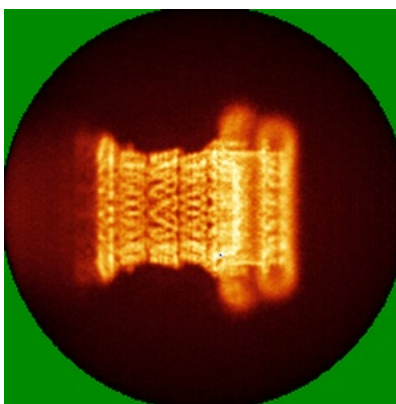


Z

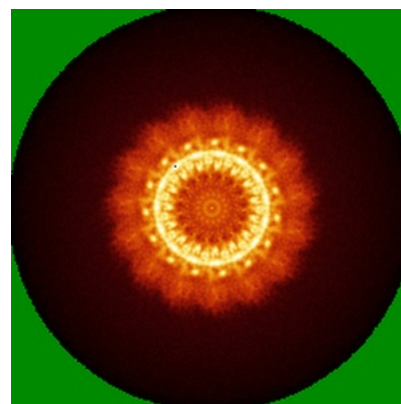
6.4.2 Raw map



X



Y

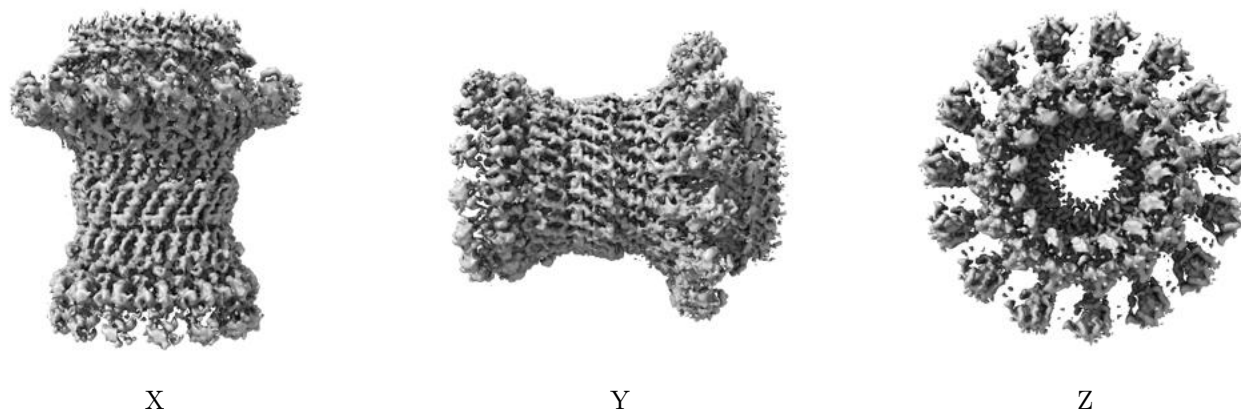


Z

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

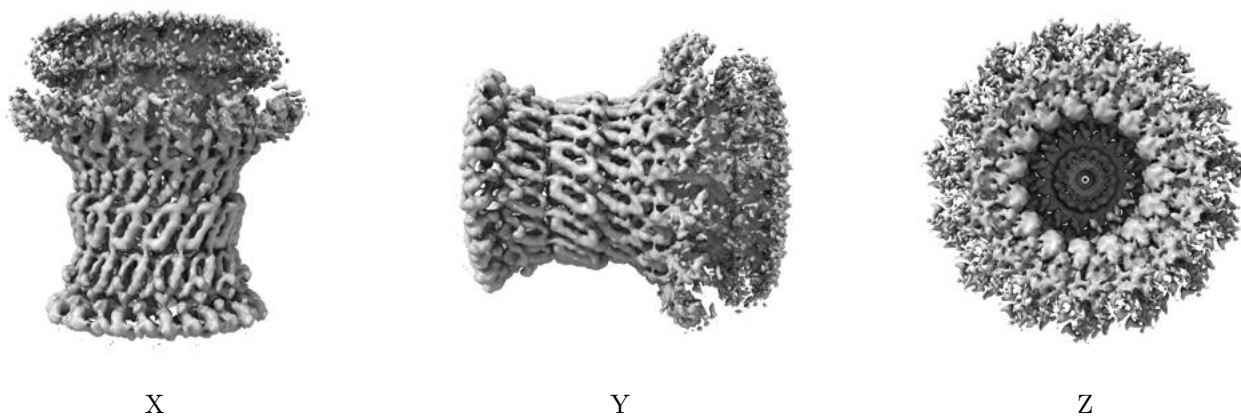
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 4.3. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



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

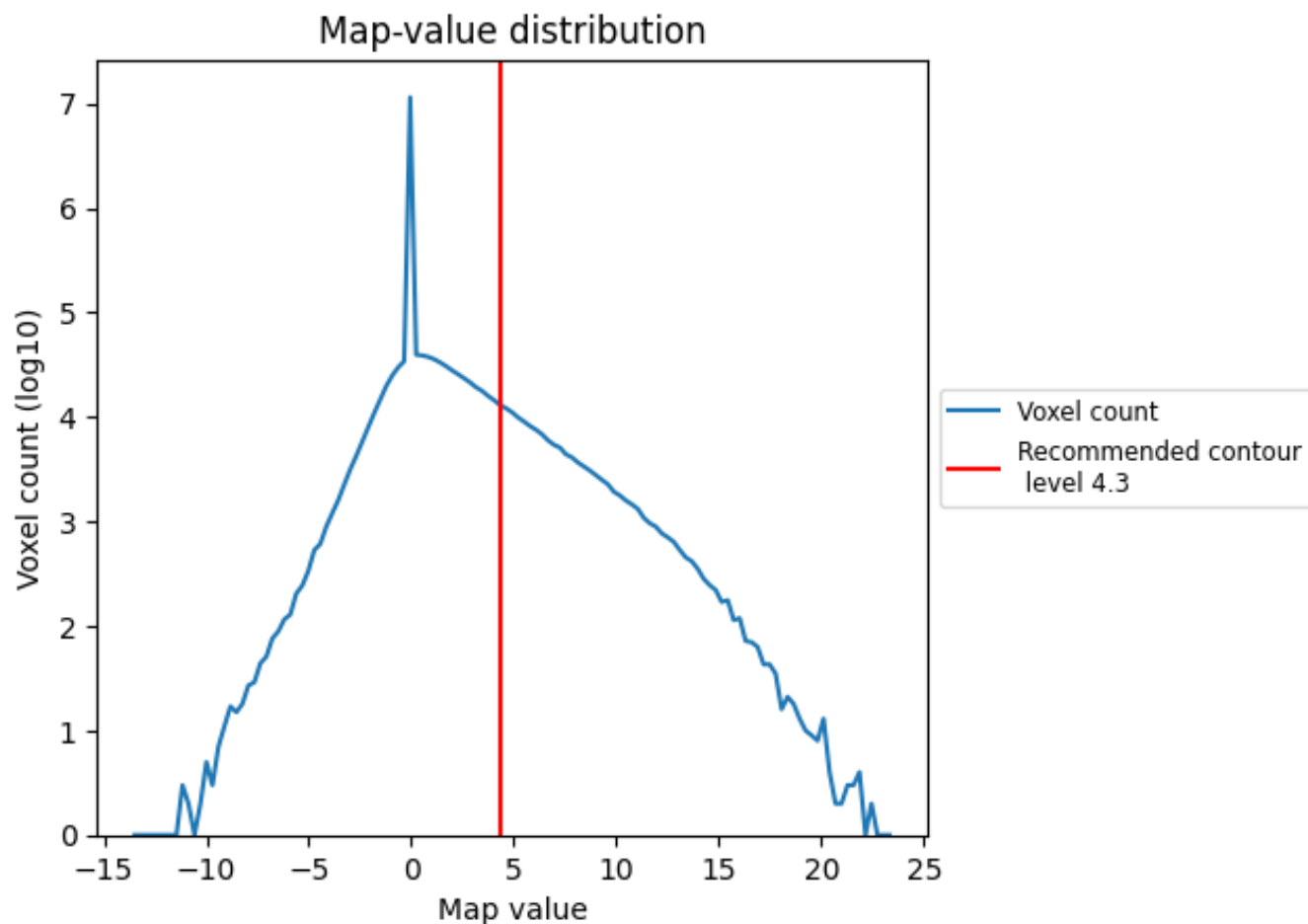
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

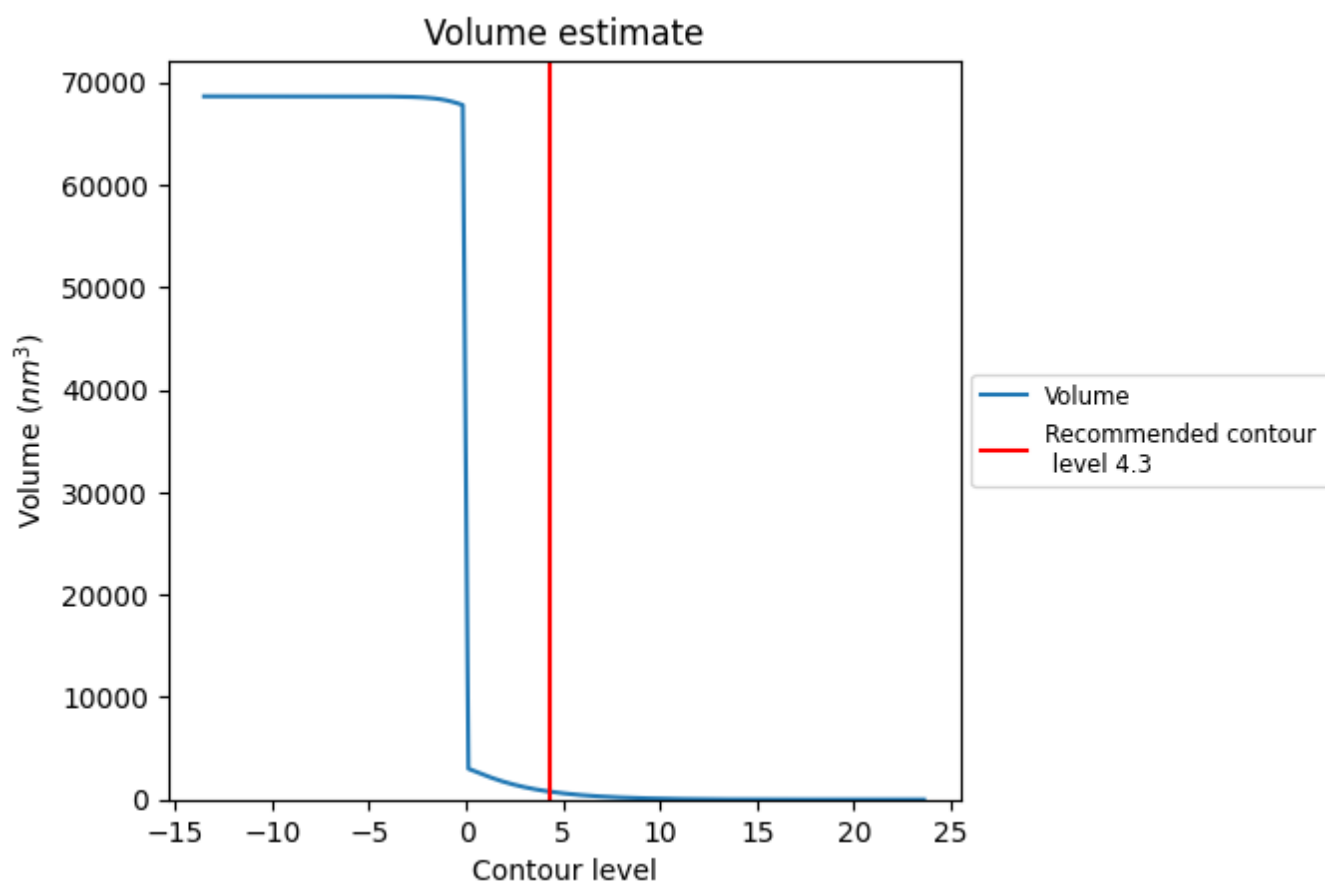
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

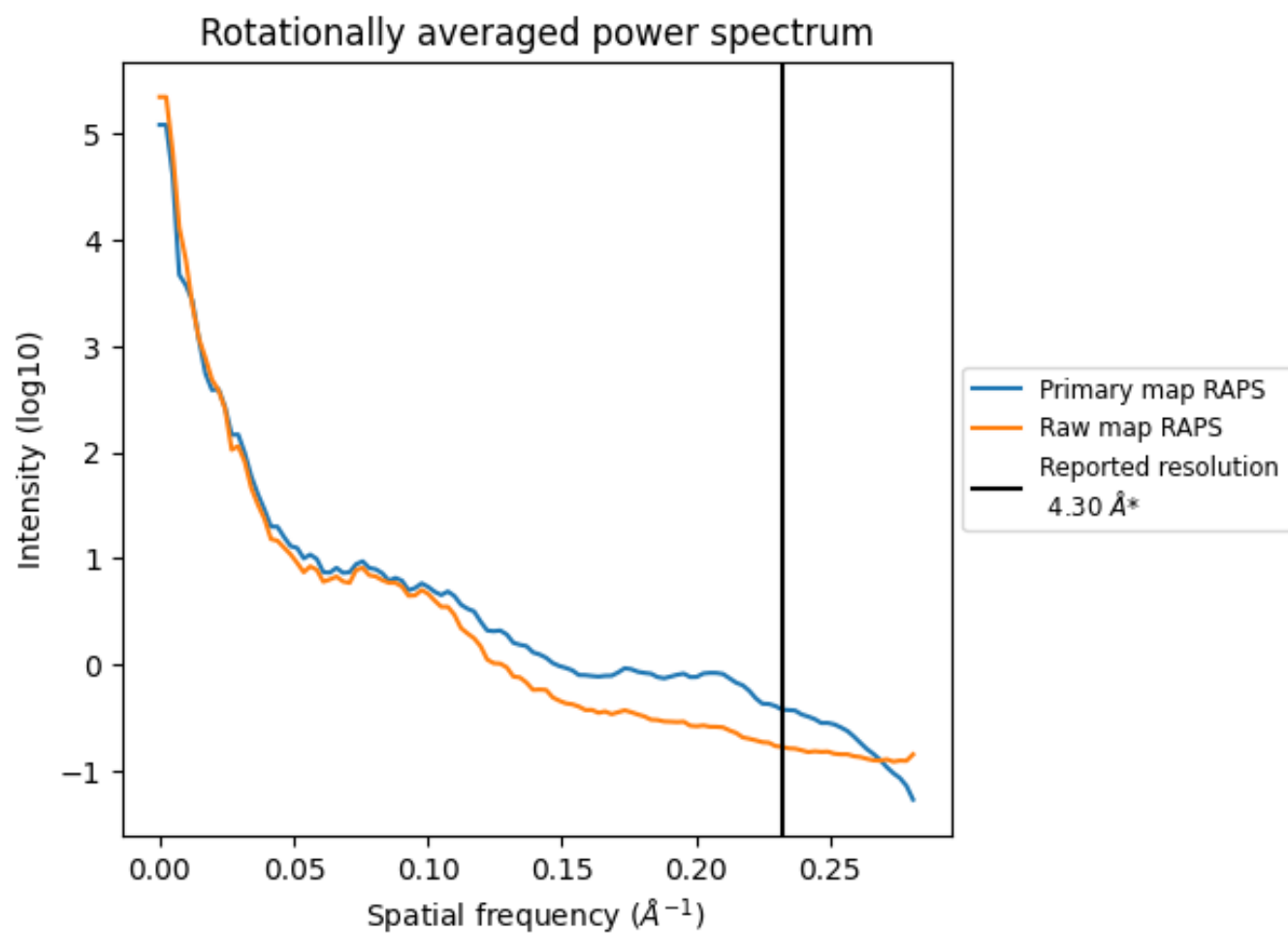
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 783 nm³; this corresponds to an approximate mass of 707 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ

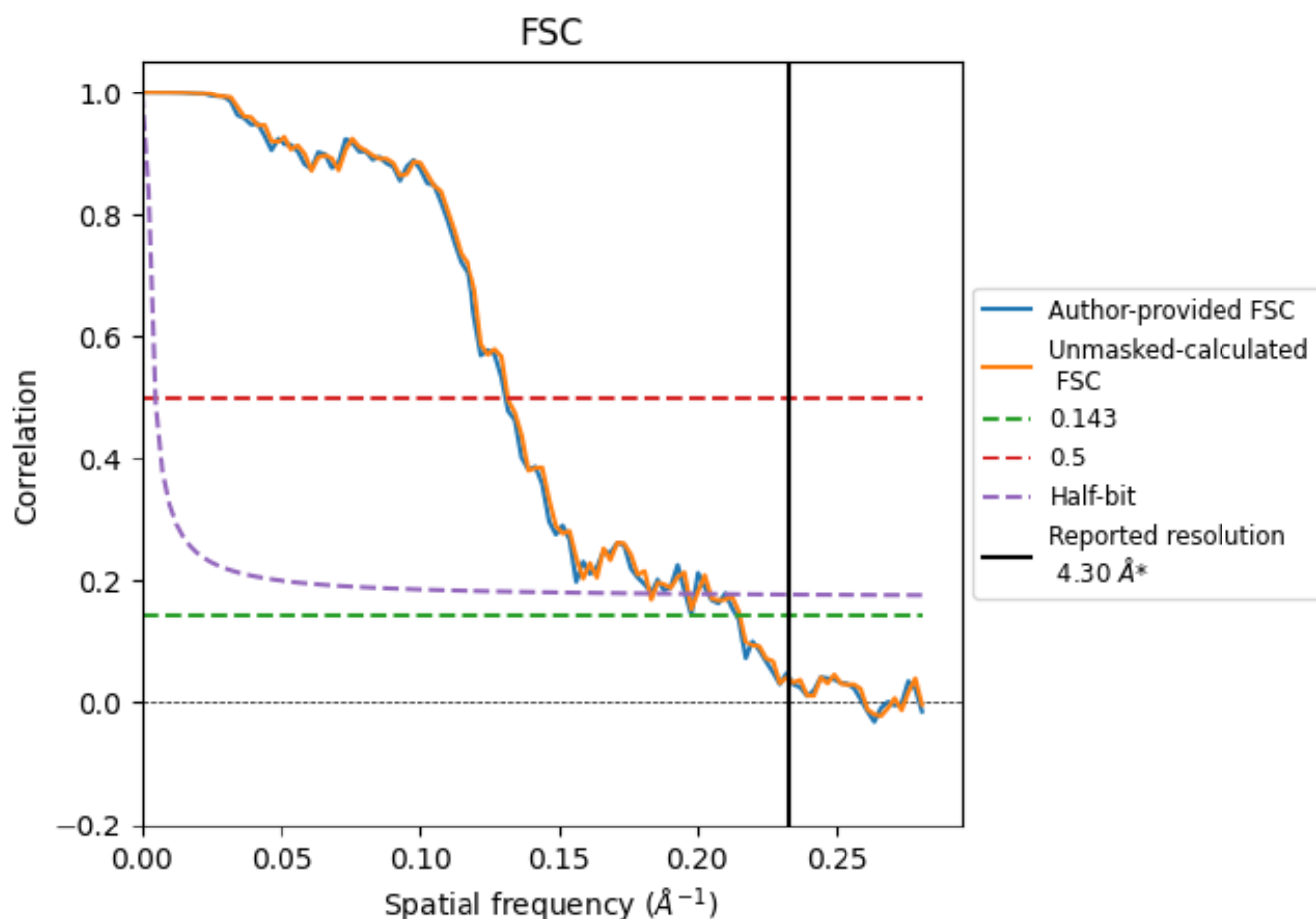


*Reported resolution corresponds to spatial frequency of 0.233 Å⁻¹

8 Fourier-Shell correlation [i](#)

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

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.233 $\text{\AA}^{-1}$

8.2 Resolution estimates [i](#)

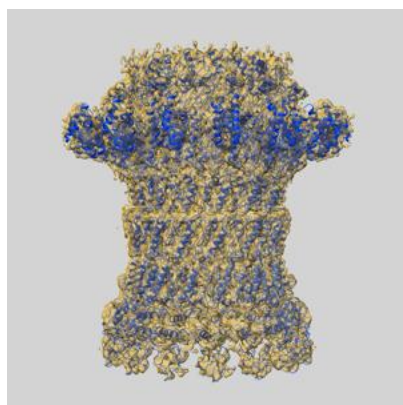
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	4.30	-	-
Author-provided FSC curve	4.67	7.64	5.11
Unmasked-calculated*	4.64	7.59	5.47

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

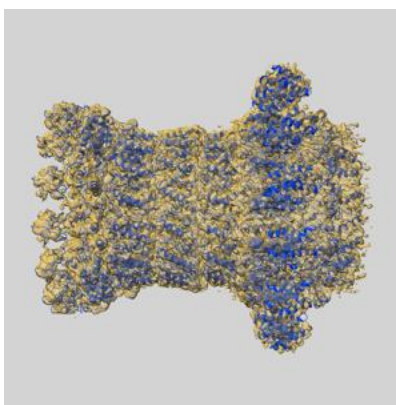
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-0193 and PDB model 6HCG. Per-residue inclusion information can be found in [section 3](#) on [page 8](#).

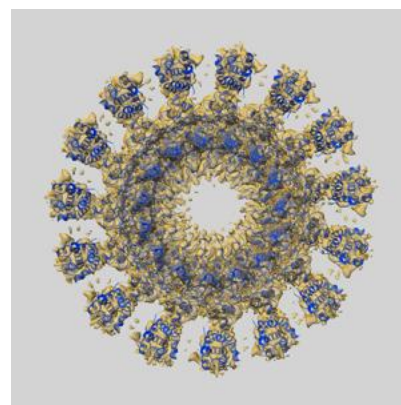
9.1 Map-model overlay [i](#)



X



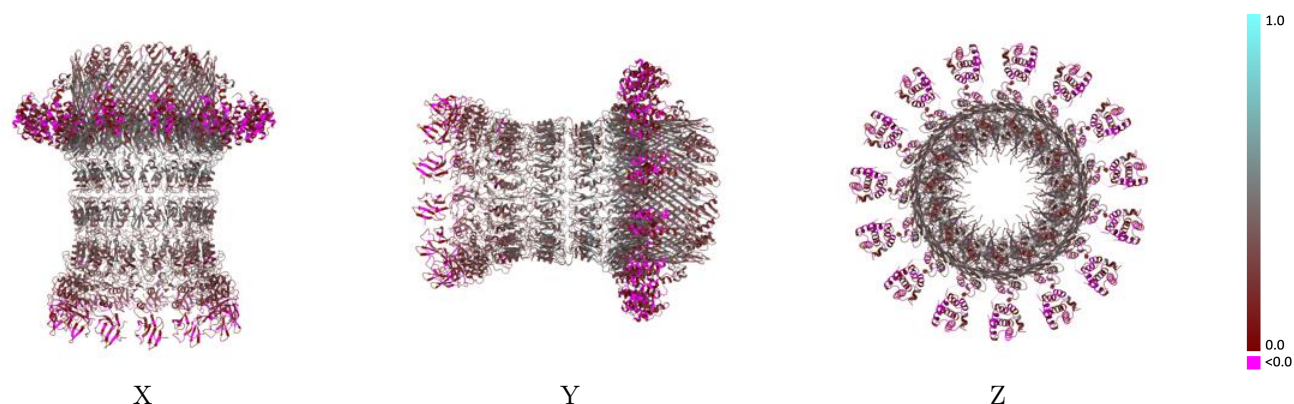
Y



Z

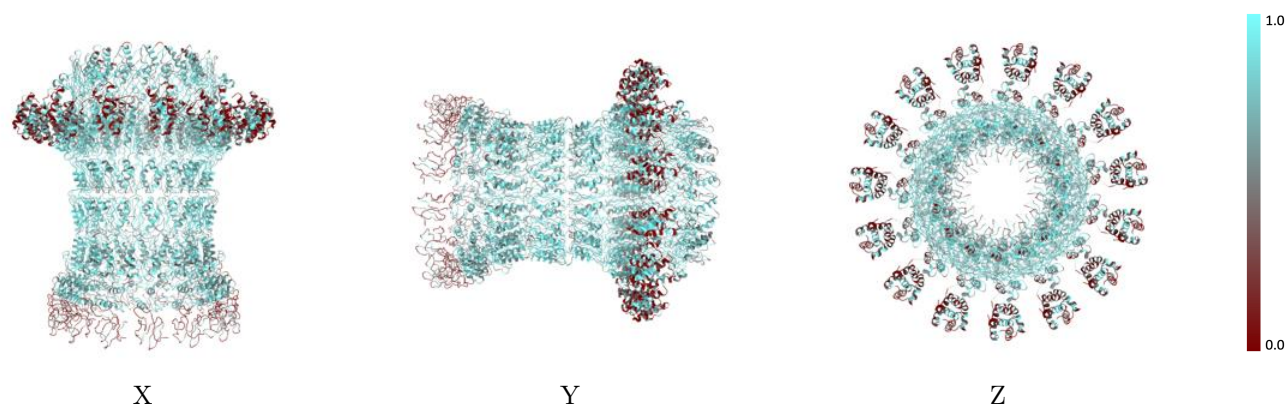
The images above show the 3D surface view of the map at the recommended contour level 4.3 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



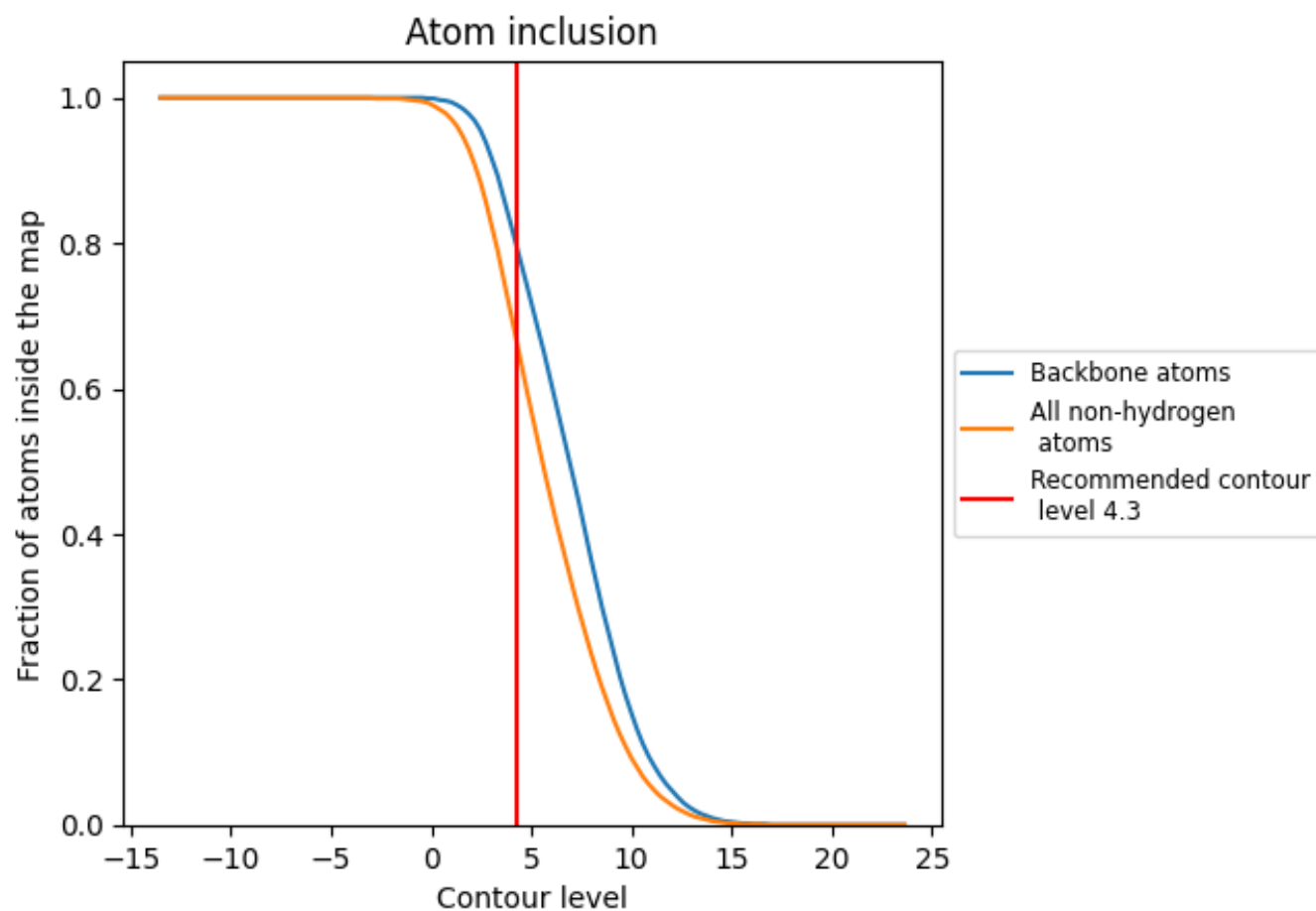
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (4.3).

9.4 Atom inclusion [i](#)



At the recommended contour level, 79% of all backbone atoms, 66% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (4.3) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.6600	 0.2730
A	 0.7570	 0.3210
B	 0.7560	 0.3230
C	 0.7600	 0.3280
D	 0.7520	 0.3310
E	 0.7490	 0.3250
F	 0.7500	 0.3240
G	 0.7440	 0.3250
H	 0.7450	 0.3230
I	 0.7480	 0.3240
J	 0.7410	 0.3220
K	 0.7480	 0.3230
L	 0.7440	 0.3240
M	 0.7450	 0.3250
N	 0.7450	 0.3230
O	 0.7430	 0.3260
P	 0.3850	 0.0770
Q	 0.4100	 0.0790
R	 0.3960	 0.0830
S	 0.3800	 0.0760
T	 0.3900	 0.0790
U	 0.3880	 0.0810
V	 0.4090	 0.0730
W	 0.4260	 0.0850
X	 0.4300	 0.0780
Y	 0.4060	 0.0810
Z	 0.3690	 0.0660
a	 0.3790	 0.0730
b	 0.3730	 0.0710
c	 0.3620	 0.0770
d	 0.3800	 0.0740
e	 0.2640	 0.1000
f	 0.2440	 0.0950
g	 0.2480	 0.1100
h	 0.2580	 0.1020



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Chain	Atom inclusion	Q-score
i	 0.2600	 0.0910
j	 0.2800	 0.1030
k	 0.3100	 0.0970
l	 0.2920	 0.1010
m	 0.2820	 0.0970
n	 0.2840	 0.1100
o	 0.2200	 0.0980
p	 0.2540	 0.0910
q	 0.2460	 0.1040
r	 0.2300	 0.0920
s	 0.2360	 0.1040