



# Full wwPDB EM Validation Report ⓘ

Jun 20, 2024 – 05:03 AM JST

PDB ID : 7WUB  
EMDB ID : EMD-32827  
Title : Cryo-EM structure of dodecamer P97  
Authors : Liu, S.; Wang, T.  
Deposited on : 2022-02-08  
Resolution : 3.00 Å(reported)

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

We welcome your comments at [validation@mail.wwpdb.org](mailto: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>.

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

EMDB validation analysis : 0.0.1.dev92  
Mogul : 1.8.5 (274361), CSD as541be (2020)  
MolProbity : 4.02b-467  
buster-report : 1.1.7 (2018)  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
MapQ : 1.9.13  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.37.1

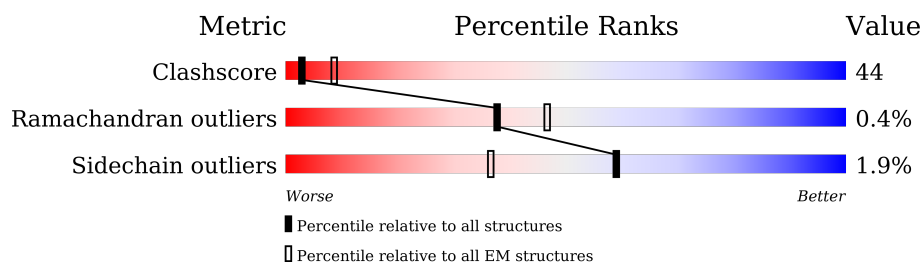
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*ELECTRON MICROSCOPY*

The reported resolution of this entry is 3.00 Å.

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



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

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 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	755	
1	B	755	
1	E	755	
1	F	755	
1	G	755	
1	H	755	
1	I	755	
1	J	755	

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Mol	Chain	Length	Quality of chain
1	K	755	<div><div></div><div>8%</div><div>40%</div><div>58%</div><div></div></div>
1	L	755	<div><div></div><div>8%</div><div>40%</div><div>59%</div><div></div></div>
2	C	576	<div><div></div><div>6%</div><div>44%</div><div>54%</div><div></div></div>
3	D	576	<div><div></div><div>7%</div><div>44%</div><div>53%</div><div></div></div>



## 2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 63739 atoms, of which 480 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 Transitional endoplasmic reticulum ATPase.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	576	Total	C	N	O	S	0	0
			4494	2822	795	854	23		
1	B	576	Total	C	N	O	S	0	0
			4494	2822	795	854	23		
1	E	576	Total	C	N	O	S	0	0
			4494	2822	795	854	23		
1	F	576	Total	C	N	O	S	0	0
			4494	2822	795	854	23		
1	G	755	Total	C	N	O	S	0	0
			5925	3719	1049	1126	31		
1	H	755	Total	C	N	O	S	0	0
			5925	3719	1049	1126	31		
1	I	755	Total	C	N	O	S	0	0
			5925	3719	1049	1126	31		
1	J	755	Total	C	N	O	S	0	0
			5925	3719	1049	1126	31		
1	K	755	Total	C	N	O	S	0	0
			5925	3719	1049	1126	31		
1	L	755	Total	C	N	O	S	0	0
			5925	3719	1049	1126	31		

- Molecule 2 is a protein called Transitional endoplasmic reticulum ATPase.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	C	576	Total	C	N	O	S	0	0
			4490	2820	793	854	23		

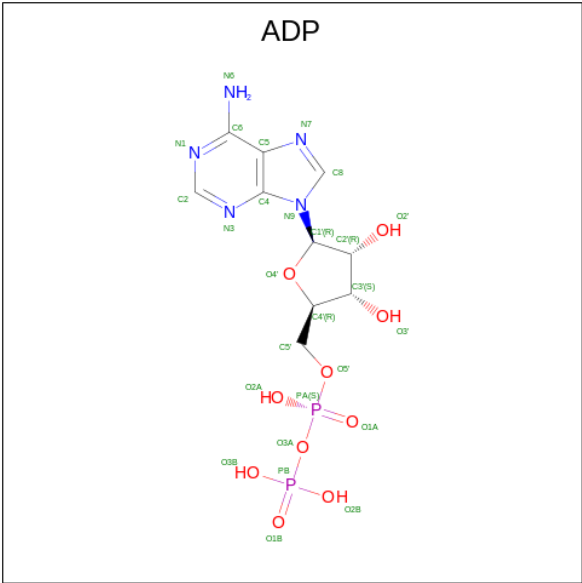
There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	712	GLN	GLU	conflict	UNP P55072
C	713	THR	ARG	conflict	UNP P55072

- Molecule 3 is a protein called Transitional endoplasmic reticulum ATPase.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	D	575	Total	C	N	O	S	0	0
			4487	2817	794	853	23		

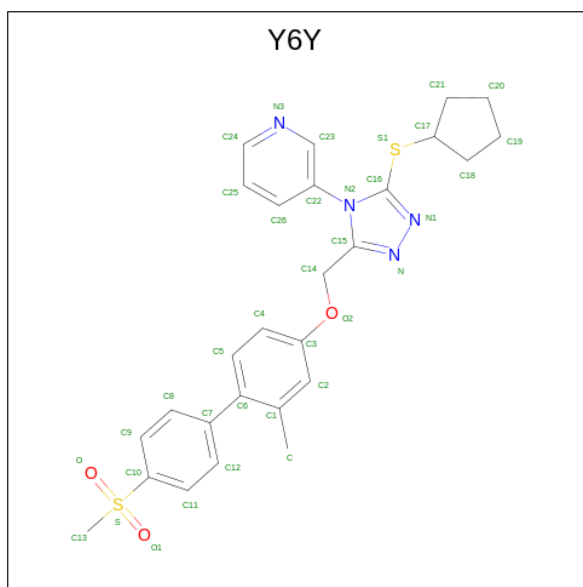
- Molecule 4 is ADENOSINE-5'-DIPHOSPHATE (three-letter code: ADP) (formula: C<sub>10</sub>H<sub>15</sub>N<sub>5</sub>O<sub>10</sub>P<sub>2</sub>).



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Mol	Chain	Residues	Atoms					AltConf
4	K	1	Total	C	H	N	O	P
			39	10	12	5	10	2
4	L	1	Total	C	H	N	O	P
			39	10	12	5	10	2

- Molecule 5 is 3-[3-cyclopentylsulfanyl-5-[[3-methyl-4-(4-methylsulfonylphenyl)phenoxy]methyl]-1,2,4-triazol-4-yl]pyridine (three-letter code: Y6Y) (formula: C<sub>27</sub>H<sub>28</sub>N<sub>4</sub>O<sub>3</sub>S<sub>2</sub>) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					AltConf
5	A	1	Total	C	H	N	O	S
			64	27	28	4	3	2
5	B	1	Total	C	H	N	O	S
			64	27	28	4	3	2
5	C	1	Total	C	H	N	O	S
			64	27	28	4	3	2
5	D	1	Total	C	H	N	O	S
			64	27	28	4	3	2
5	E	1	Total	C	H	N	O	S
			64	27	28	4	3	2
5	F	1	Total	C	H	N	O	S
			64	27	28	4	3	2
5	G	1	Total	C	H	N	O	S
			64	27	28	4	3	2
5	H	1	Total	C	H	N	O	S
			64	27	28	4	3	2

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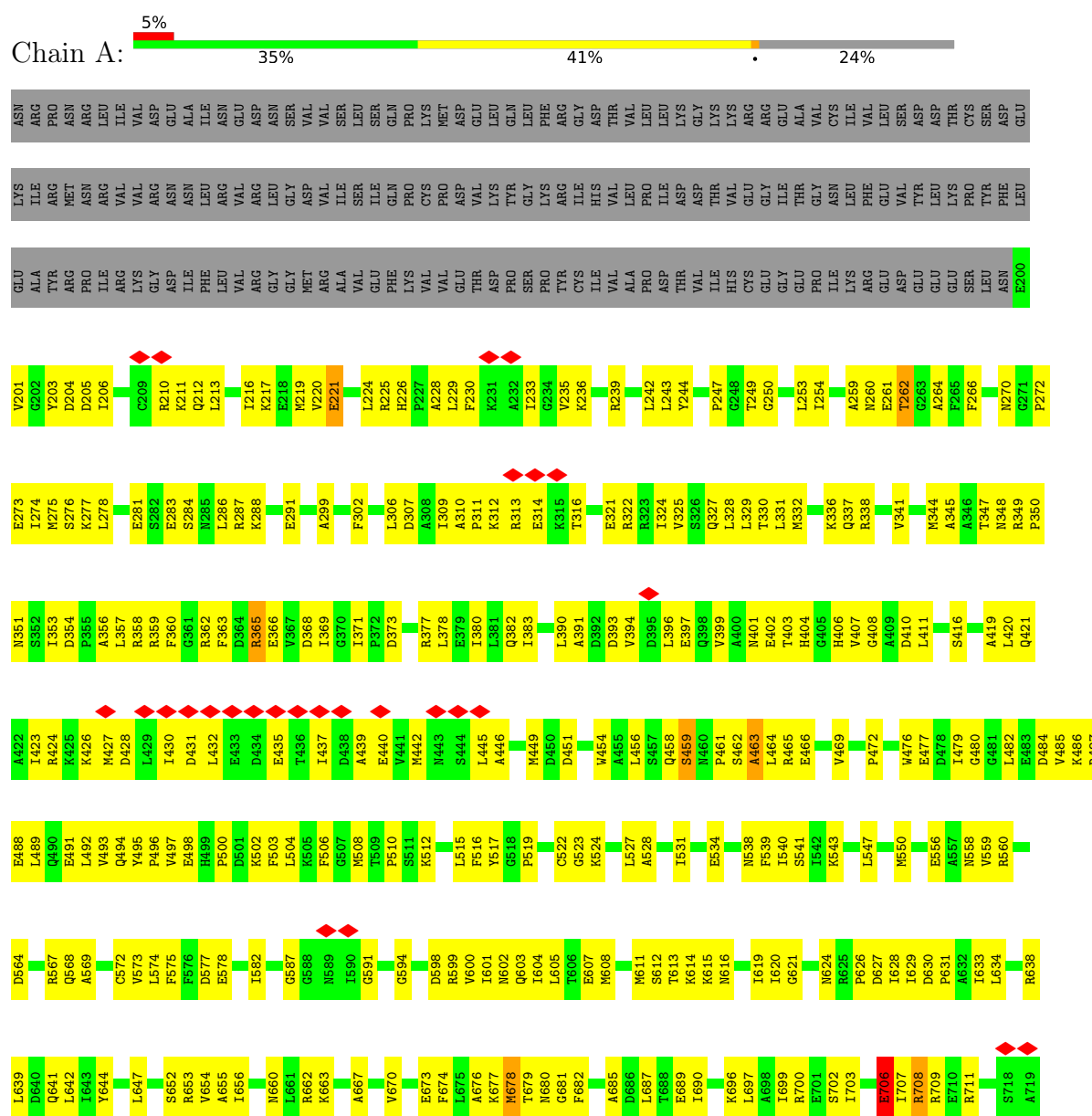
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Mol	Chain	Residues	Atoms						AltConf
5	I	1	Total	C	H	N	O	S	0
			64	27	28	4	3	2	
5	J	1	Total	C	H	N	O	S	0
			64	27	28	4	3	2	
5	K	1	Total	C	H	N	O	S	0
			64	27	28	4	3	2	
5	L	1	Total	C	H	N	O	S	0
			64	27	28	4	3	2	

### 3 Residue-property plots

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

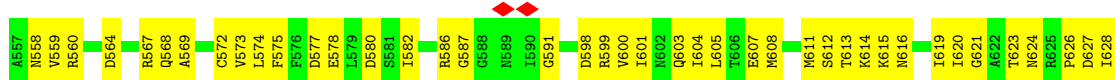
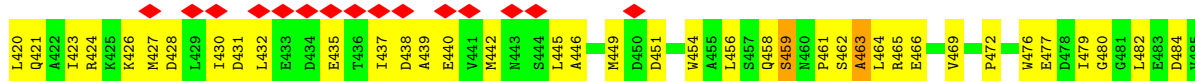
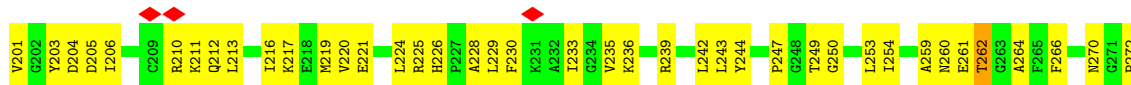
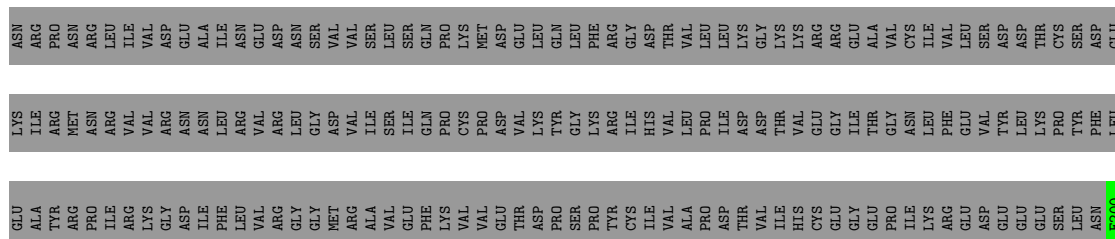
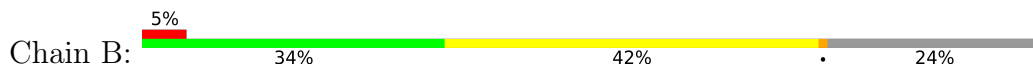
#### • Molecule 1: Transitional endoplasmic reticulum ATPase







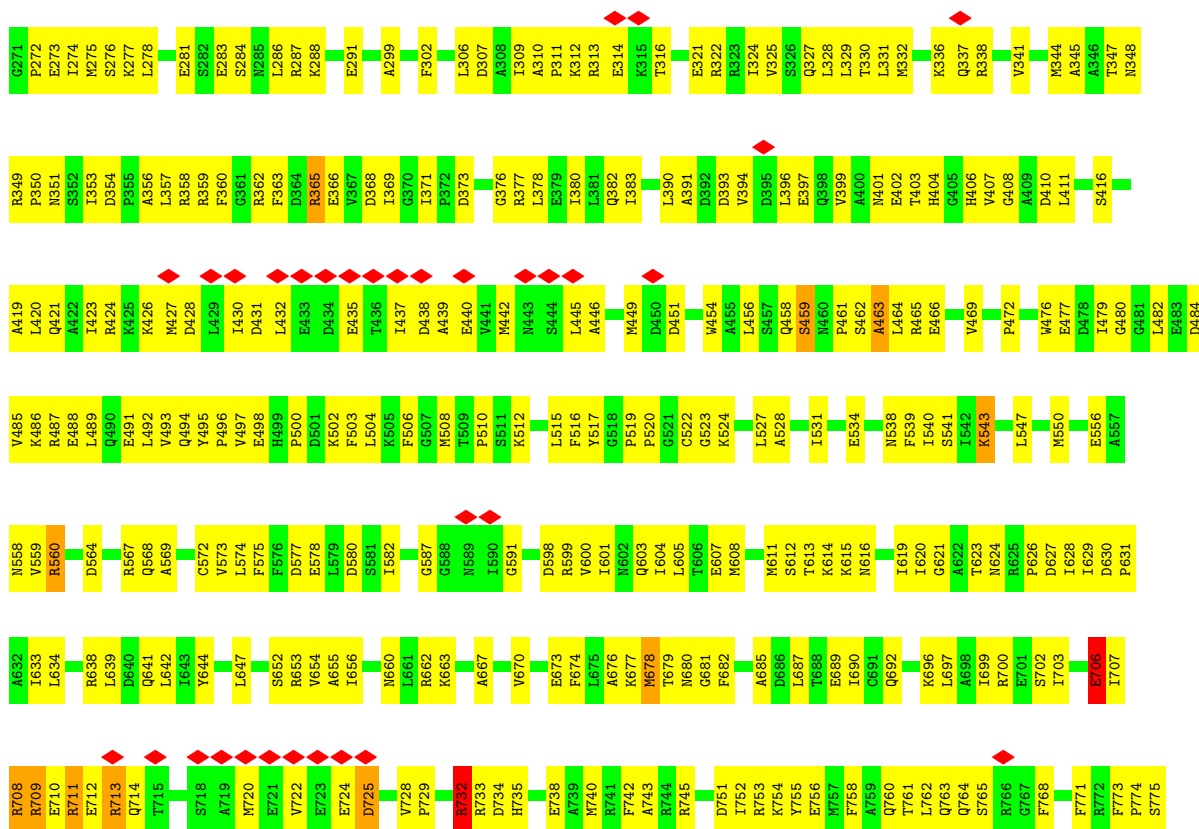
• Molecule 1: Transitional endoplasmic reticulum ATPase



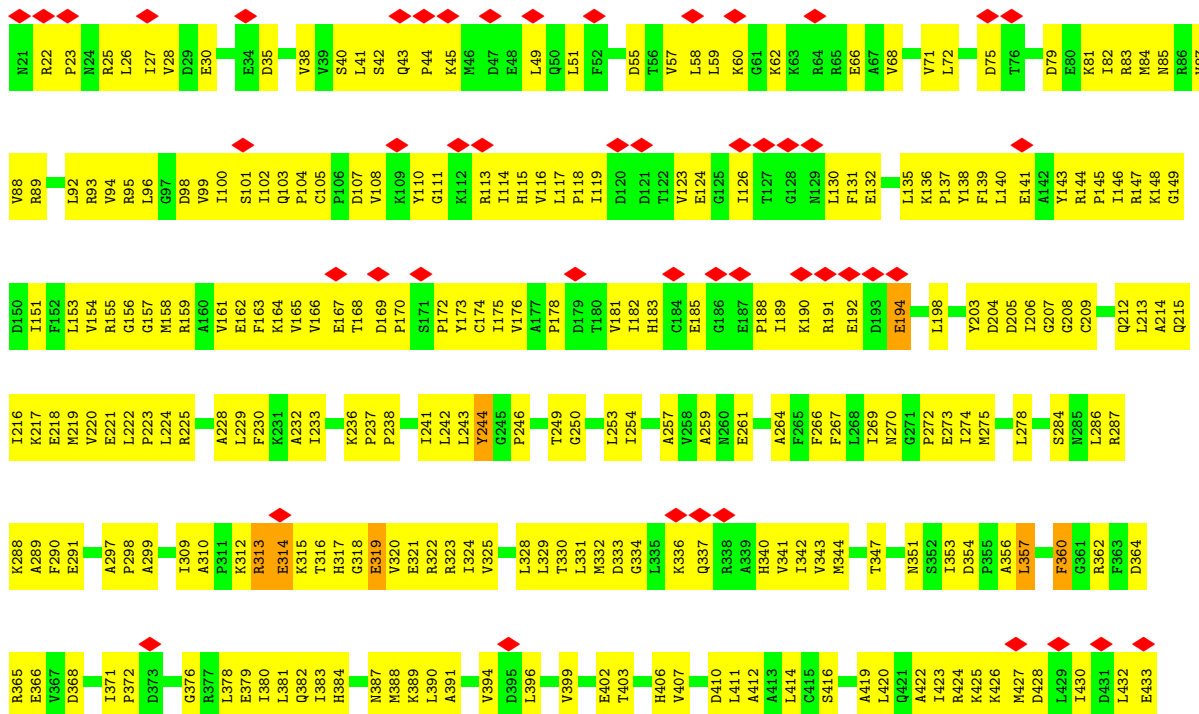
• Molecule 1: Transitional endoplasmic reticulum ATPase

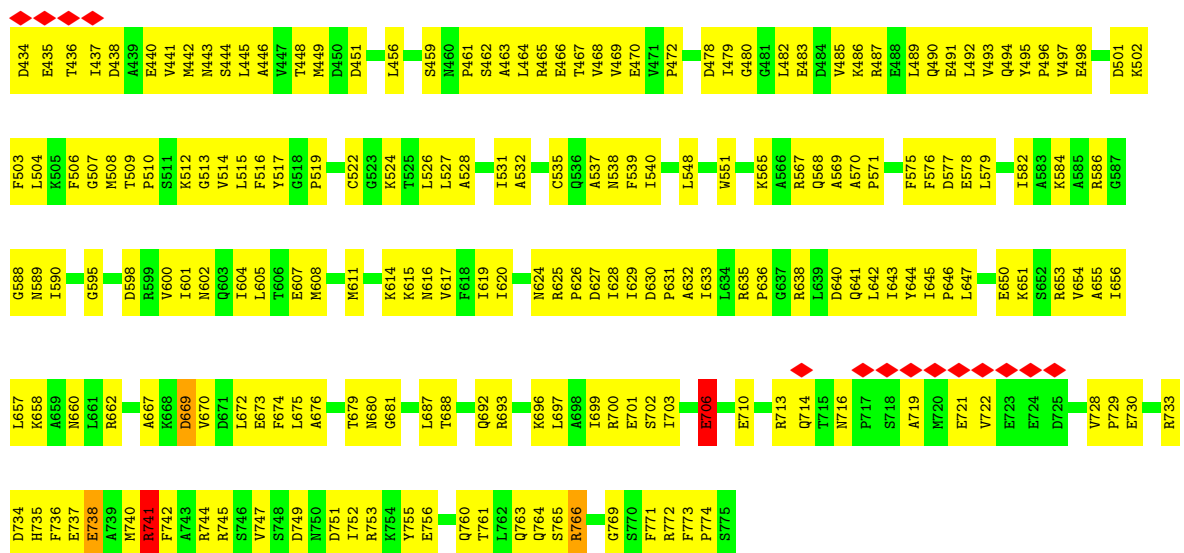




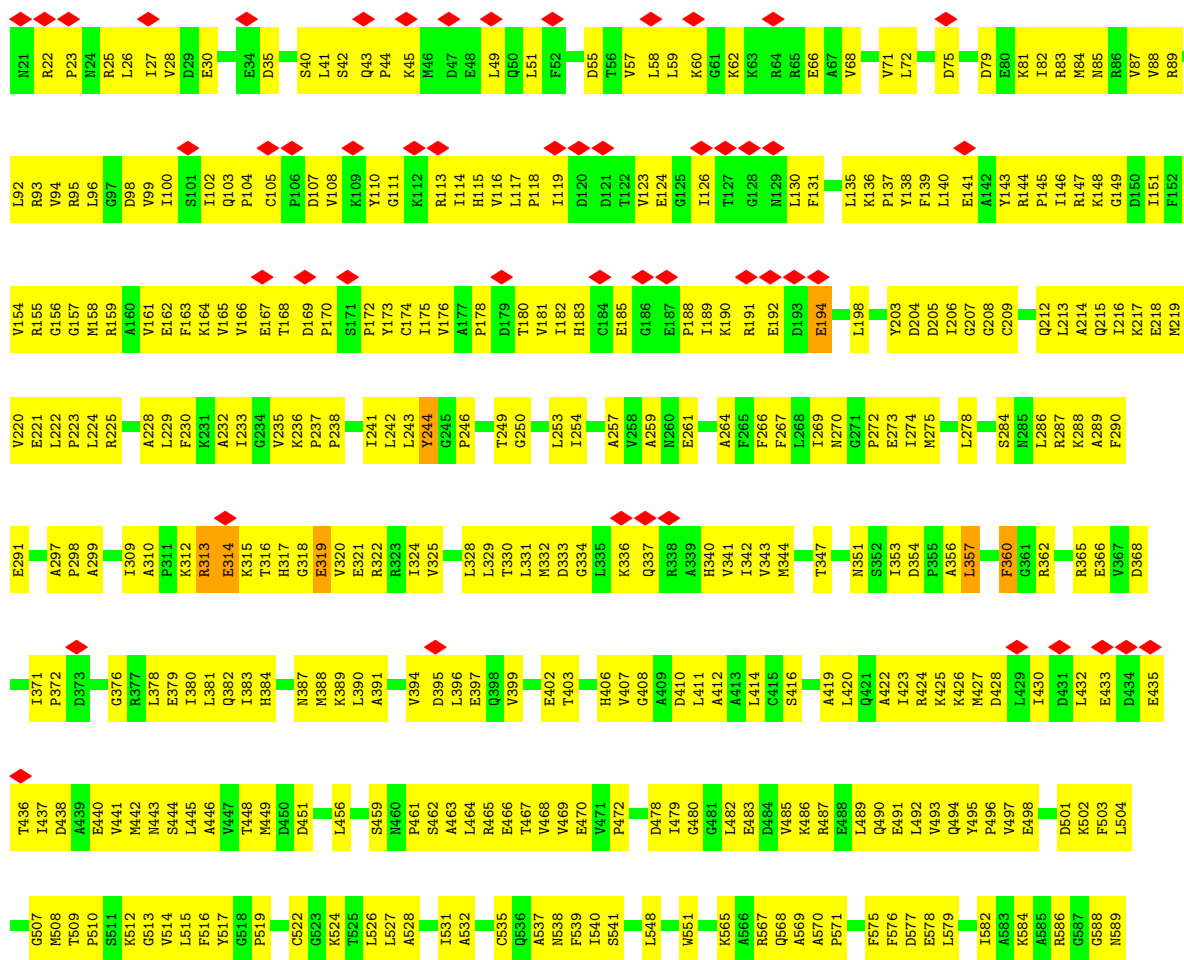


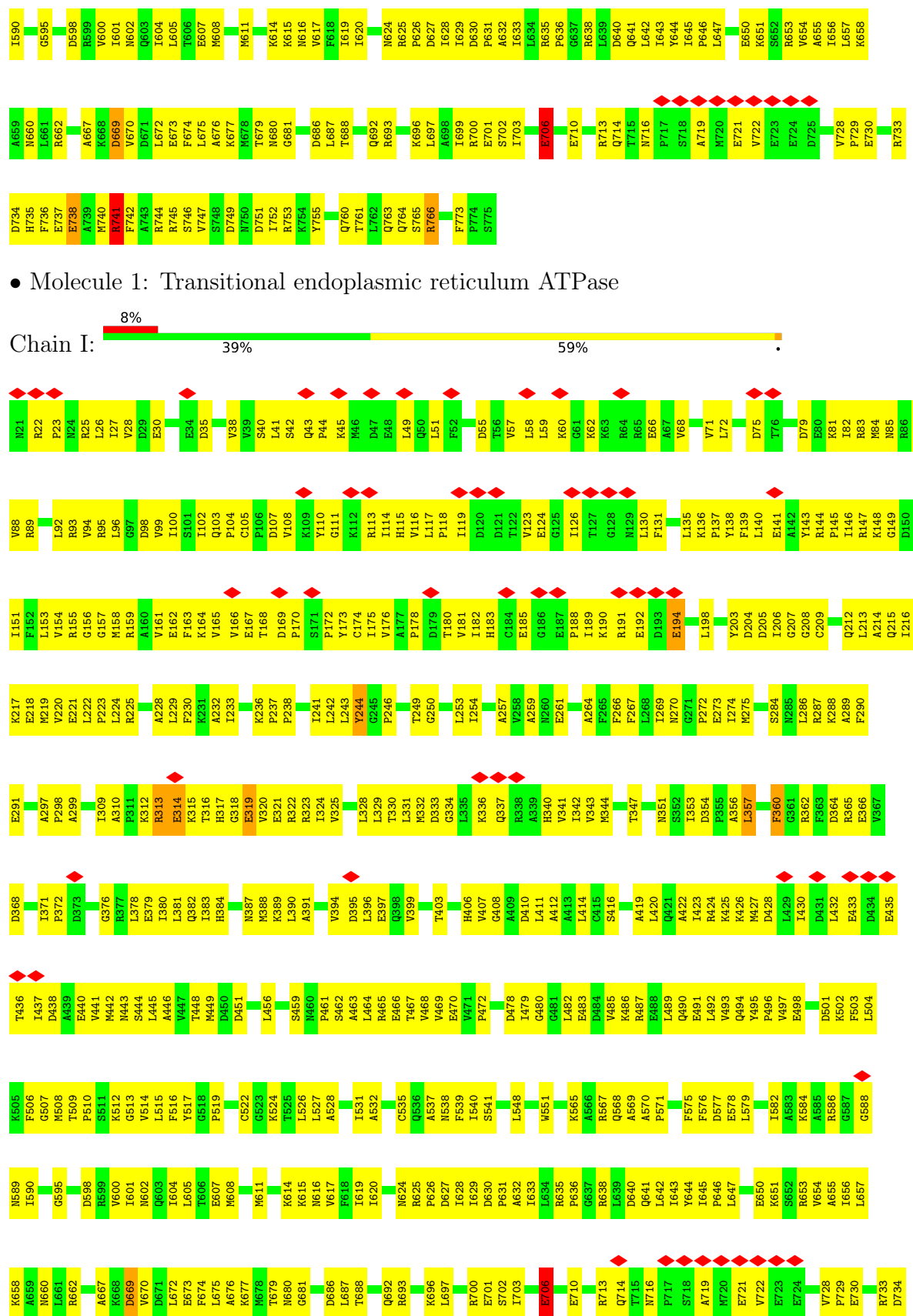
• Molecule 1: Transitional endoplasmic reticulum ATPase



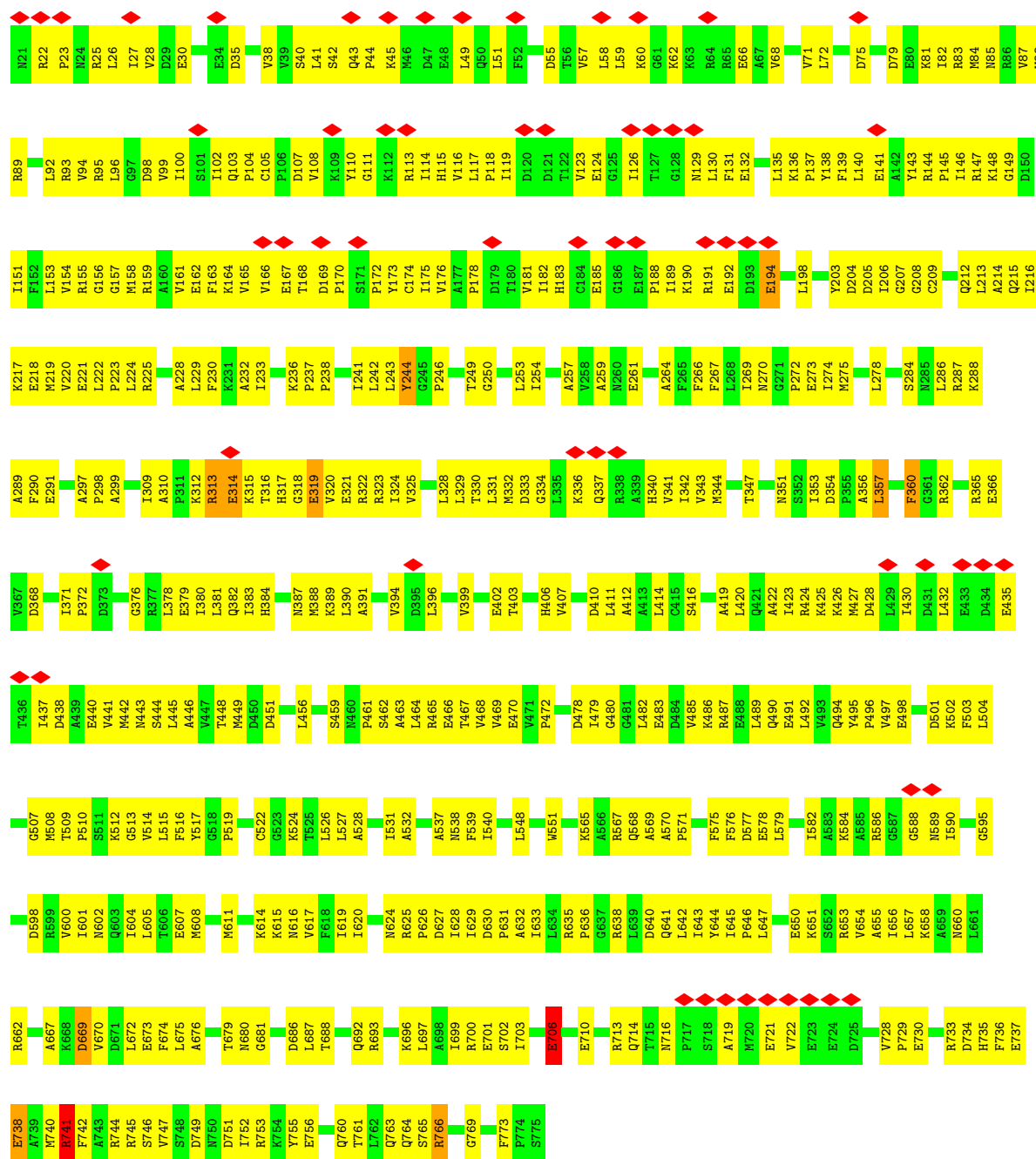


• Molecule 1: Transitional endoplasmic reticulum ATPase

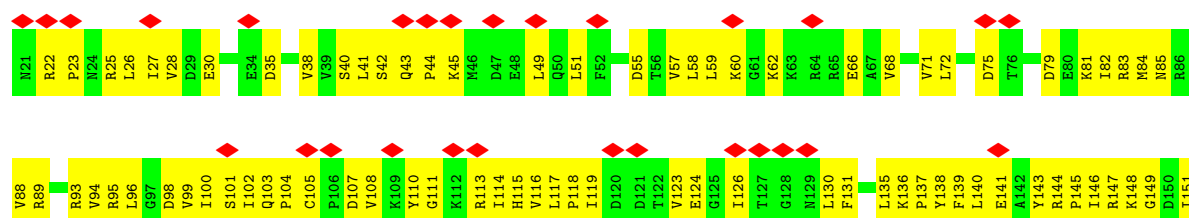






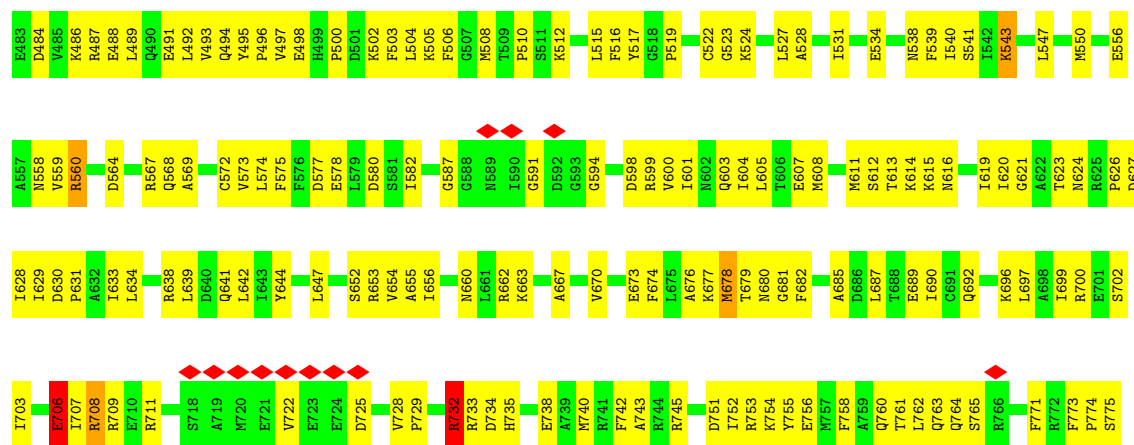


• Molecule 1: Transitional endoplasmic reticulum ATPase

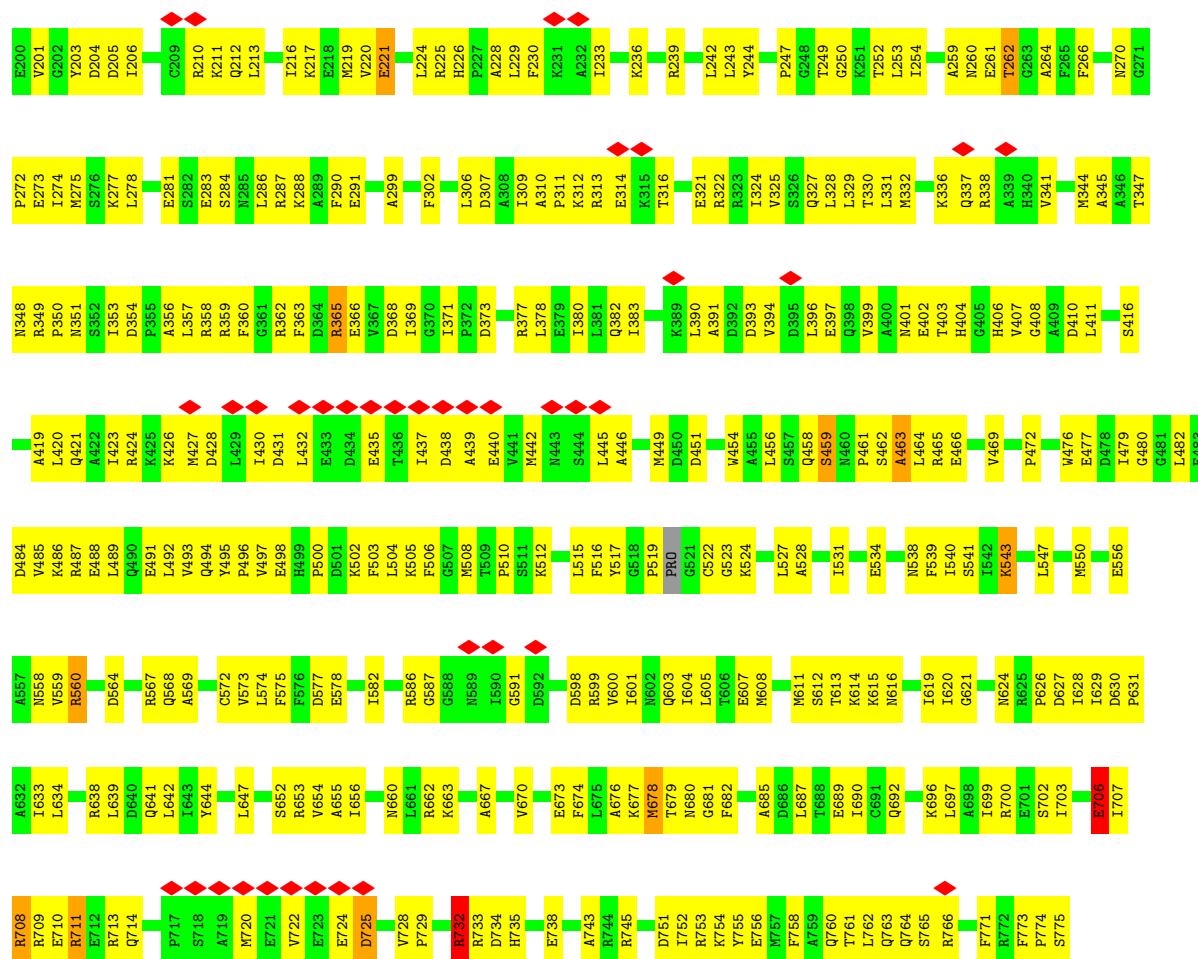
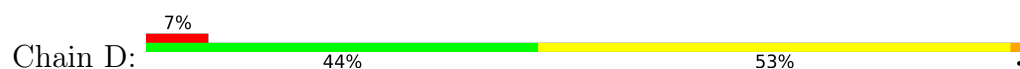








• Molecule 3: Transitional endoplasmic reticulum ATPase



## 4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	157000	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 ( $e^-/\text{\AA}^2$ )	50	Depositor
Minimum defocus (nm)	1200	Depositor
Maximum defocus (nm)	3000	Depositor
Magnification	Not provided	
Image detector	GATAN K2 QUANTUM (4k x 4k)	Depositor
Maximum map value	3.875	Depositor
Minimum map value	-2.388	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.083	Depositor
Recommended contour level	0.331	Depositor
Map size (Å)	531.2, 531.2, 531.2	wwPDB
Map dimensions	640, 640, 640	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.83000004, 0.83000004, 0.83000004	Depositor

## 5 Model quality [i](#)

### 5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: Y6Y, ADP

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	0.28	0/4570	0.58	4/6167 (0.1%)
1	B	0.28	0/4570	0.58	4/6167 (0.1%)
1	E	0.29	0/4570	0.57	4/6167 (0.1%)
1	F	0.29	0/4570	0.58	5/6167 (0.1%)
1	G	0.27	0/6024	0.57	1/8134 (0.0%)
1	H	0.27	0/6024	0.57	1/8134 (0.0%)
1	I	0.27	0/6024	0.57	1/8134 (0.0%)
1	J	0.27	0/6024	0.57	1/8134 (0.0%)
1	K	0.27	0/6024	0.57	1/8134 (0.0%)
1	L	0.27	0/6024	0.57	1/8134 (0.0%)
2	C	0.28	0/4566	0.57	4/6163 (0.1%)
3	D	0.28	0/4561	0.58	4/6152 (0.1%)
All	All	0.28	0/63551	0.57	31/85787 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
1	B	0	1
1	E	0	1
1	F	0	1
1	G	0	2
1	H	0	2
1	I	0	2
1	J	0	2
1	K	0	2
1	L	0	2
2	C	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
3	D	0	1
All	All	0	18

There are no bond length outliers.

All (31) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	706	GLU	CA-CB-CG	8.19	131.41	113.40
2	C	706	GLU	CA-CB-CG	8.18	131.39	113.40
1	E	706	GLU	CA-CB-CG	8.17	131.37	113.40
1	A	706	GLU	CA-CB-CG	8.16	131.35	113.40
1	B	706	GLU	CA-CB-CG	8.16	131.35	113.40
3	D	706	GLU	CA-CB-CG	8.16	131.34	113.40
1	G	706	GLU	CA-CB-CG	7.60	130.12	113.40
1	I	706	GLU	CA-CB-CG	7.59	130.11	113.40
1	H	706	GLU	CA-CB-CG	7.59	130.10	113.40
1	J	706	GLU	CA-CB-CG	7.58	130.07	113.40
1	L	706	GLU	CA-CB-CG	7.58	130.06	113.40
1	K	706	GLU	CA-CB-CG	7.56	130.04	113.40
1	F	711	ARG	CB-CA-C	-7.44	95.52	110.40
2	C	711	ARG	CB-CA-C	-7.44	95.53	110.40
1	E	711	ARG	CB-CA-C	-7.43	95.53	110.40
1	A	711	ARG	CB-CA-C	-7.43	95.53	110.40
3	D	711	ARG	CB-CA-C	-7.43	95.53	110.40
1	B	711	ARG	CB-CA-C	-7.42	95.56	110.40
1	F	732	ARG	CB-CG-CD	5.73	126.50	111.60
1	E	732	ARG	CB-CG-CD	5.73	126.49	111.60
1	B	732	ARG	CB-CG-CD	5.73	126.49	111.60
2	C	732	ARG	CB-CG-CD	5.72	126.48	111.60
3	D	732	ARG	CB-CG-CD	5.71	126.46	111.60
1	A	732	ARG	CB-CG-CD	5.71	126.44	111.60
1	B	732	ARG	NE-CZ-NH2	-5.31	117.64	120.30
1	F	732	ARG	NE-CZ-NH2	-5.28	117.66	120.30
1	E	732	ARG	NE-CZ-NH2	-5.28	117.66	120.30
3	D	732	ARG	NE-CZ-NH2	-5.25	117.67	120.30
1	F	713	ARG	C-N-CA	-5.23	108.62	121.70
1	A	732	ARG	NE-CZ-NH2	-5.20	117.70	120.30
2	C	732	ARG	NE-CZ-NH2	-5.20	117.70	120.30

There are no chirality outliers.

All (18) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	560	ARG	Sidechain
1	B	560	ARG	Sidechain
2	C	560	ARG	Sidechain
3	D	560	ARG	Sidechain
1	E	560	ARG	Sidechain
1	F	560	ARG	Sidechain
1	G	297	ALA	Peptide
1	G	741	ARG	Sidechain
1	H	297	ALA	Peptide
1	H	741	ARG	Sidechain
1	I	297	ALA	Peptide
1	I	741	ARG	Sidechain
1	J	297	ALA	Peptide
1	J	741	ARG	Sidechain
1	K	297	ALA	Peptide
1	K	741	ARG	Sidechain
1	L	297	ALA	Peptide
1	L	741	ARG	Sidechain

## 5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	4494	0	4520	416	0
1	B	4494	0	4520	421	0
1	E	4494	0	4520	424	0
1	F	4494	0	4520	428	0
1	G	5925	0	5974	596	0
1	H	5925	0	5974	600	0
1	I	5925	0	5974	612	0
1	J	5925	0	5974	601	0
1	K	5925	0	5974	599	0
1	L	5925	0	5974	599	0
2	C	4490	0	4516	412	0
3	D	4487	0	4512	425	0
4	A	27	12	11	3	0
4	B	27	12	11	3	0
4	C	27	12	11	3	0
4	D	27	12	11	3	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	E	27	12	11	3	0
4	F	27	12	11	3	0
4	G	27	12	11	3	0
4	H	27	12	11	3	0
4	I	27	12	11	3	0
4	J	27	12	11	3	0
4	K	27	12	11	3	0
4	L	27	12	11	3	0
5	A	36	28	0	7	0
5	B	36	28	0	7	0
5	C	36	28	0	7	0
5	D	36	28	0	6	0
5	E	36	28	0	6	0
5	F	36	28	0	7	0
5	G	36	28	0	7	0
5	H	36	28	0	7	0
5	I	36	28	0	7	0
5	J	36	28	0	7	0
5	K	36	28	0	7	0
5	L	36	28	0	7	0
All	All	63259	480	63084	5619	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 44.

All (5619) 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:461:PRO:HA	1:H:462:SER:HB3	1.21	1.17
1:I:219:MET:HE2	1:I:365:ARG:HD3	1.24	1.16
1:G:461:PRO:HA	1:G:462:SER:HB3	1.21	1.14
1:I:233:ILE:HD11	1:J:158:MET:HB2	1.28	1.13
1:I:461:PRO:HA	1:I:462:SER:HB3	1.21	1.12
1:J:371:ILE:HD11	1:J:466:GLU:HB2	1.31	1.12
1:H:371:ILE:HD11	1:H:466:GLU:HB2	1.31	1.12
1:G:371:ILE:HD11	1:G:466:GLU:HB2	1.31	1.10
1:A:406:HIS:HD2	1:A:461:PRO:HB3	1.15	1.10
2:C:406:HIS:HD2	2:C:461:PRO:HB3	1.15	1.10
1:K:119:ILE:HG13	1:K:191:ARG:HB2	1.33	1.10
1:K:371:ILE:HD11	1:K:466:GLU:HB2	1.31	1.10
1:J:233:ILE:HD11	1:K:158:MET:HB2	1.27	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:461:PRO:HA	1:L:462:SER:HB3	1.21	1.10
1:H:119:ILE:HG13	1:H:191:ARG:HB2	1.33	1.09
1:J:119:ILE:HG13	1:J:191:ARG:HB2	1.33	1.09
1:K:461:PRO:HA	1:K:462:SER:HB3	1.21	1.09
1:H:316:THR:HG21	1:H:321:GLU:HG2	1.33	1.09
1:J:605:LEU:HD21	1:J:633:ILE:HD13	1.35	1.09
1:H:605:LEU:HD21	1:H:633:ILE:HD13	1.35	1.09
1:G:119:ILE:HG13	1:G:191:ARG:HB2	1.33	1.08
3:D:634:LEU:HD22	3:D:642:LEU:HD11	1.35	1.08
1:I:316:THR:HG21	1:I:321:GLU:HG2	1.33	1.08
1:K:233:ILE:HD11	1:L:158:MET:HB2	1.31	1.08
1:E:634:LEU:HD22	1:E:642:LEU:HD11	1.35	1.08
1:J:461:PRO:HA	1:J:462:SER:HB3	1.21	1.08
1:I:479:ILE:HD11	1:I:526:LEU:HB3	1.36	1.07
1:I:605:LEU:HD21	1:I:633:ILE:HD13	1.35	1.07
1:F:406:HIS:HD2	1:F:461:PRO:HB3	1.15	1.07
2:C:634:LEU:HD22	2:C:642:LEU:HD11	1.35	1.07
1:B:406:HIS:HD2	1:B:461:PRO:HB3	1.15	1.07
1:J:219:MET:HE2	1:J:365:ARG:HD3	1.19	1.07
1:K:605:LEU:HD21	1:K:633:ILE:HD13	1.35	1.07
1:G:158:MET:HB2	1:L:233:ILE:HD11	1.37	1.06
1:K:316:THR:HG21	1:K:321:GLU:HG2	1.33	1.06
1:L:371:ILE:HD11	1:L:466:GLU:HB2	1.31	1.06
1:E:406:HIS:HD2	1:E:461:PRO:HB3	1.15	1.06
1:G:605:LEU:HD21	1:G:633:ILE:HD13	1.35	1.06
1:H:219:MET:HE2	1:H:365:ARG:HD3	1.35	1.06
1:H:479:ILE:HD11	1:H:526:LEU:HB3	1.36	1.06
1:J:153:LEU:HD22	1:J:198:LEU:HD22	1.38	1.06
1:L:316:THR:HG21	1:L:321:GLU:HG2	1.33	1.06
1:F:709:ARG:O	1:F:712:GLU:HB2	1.56	1.05
1:I:371:ILE:HD11	1:I:466:GLU:HB2	1.31	1.05
1:G:316:THR:HG21	1:G:321:GLU:HG2	1.33	1.05
1:H:153:LEU:HD22	1:H:198:LEU:HD22	1.38	1.05
1:I:119:ILE:HG13	1:I:191:ARG:HB2	1.33	1.05
1:G:153:LEU:HD22	1:G:198:LEU:HD22	1.38	1.05
1:G:233:ILE:HD11	1:H:158:MET:HB2	1.36	1.05
1:J:316:THR:HG21	1:J:321:GLU:HG2	1.33	1.05
1:K:153:LEU:HD22	1:K:198:LEU:HD22	1.38	1.05
1:L:479:ILE:HD11	1:L:526:LEU:HB3	1.36	1.05
1:L:605:LEU:HD21	1:L:633:ILE:HD13	1.35	1.05
1:B:634:LEU:HD22	1:B:642:LEU:HD11	1.35	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:479:ILE:HD11	1:J:526:LEU:HB3	1.36	1.04
3:D:358:ARG:NH1	3:D:366:GLU:OE2	1.92	1.03
1:F:634:LEU:HD22	1:F:642:LEU:HD11	1.35	1.03
1:L:119:ILE:HG13	1:L:191:ARG:HB2	1.33	1.03
1:F:491:GLU:HA	1:F:495:TYR:CD2	1.93	1.03
3:D:406:HIS:HD2	3:D:461:PRO:HB3	1.15	1.03
1:B:491:GLU:HA	1:B:495:TYR:CD2	1.93	1.03
3:D:312:LYS:HD2	3:D:316:THR:HA	1.41	1.03
1:E:491:GLU:HA	1:E:495:TYR:CD2	1.93	1.03
1:G:219:MET:HE2	1:G:365:ARG:HD3	1.35	1.03
1:F:312:LYS:HD2	1:F:316:THR:HA	1.41	1.02
2:C:358:ARG:NH1	2:C:366:GLU:OE2	1.92	1.02
1:E:358:ARG:NH1	1:E:366:GLU:OE2	1.92	1.02
1:E:312:LYS:HD2	1:E:316:THR:HA	1.41	1.02
1:G:479:ILE:HD11	1:G:526:LEU:HB3	1.36	1.02
1:I:153:LEU:HD22	1:I:198:LEU:HD22	1.38	1.02
1:A:358:ARG:NH1	1:A:366:GLU:OE2	1.91	1.02
1:A:491:GLU:HA	1:A:495:TYR:CD2	1.93	1.02
1:A:634:LEU:HD22	1:A:642:LEU:HD11	1.34	1.02
2:C:312:LYS:HD2	2:C:316:THR:HA	1.41	1.02
2:C:491:GLU:HA	2:C:495:TYR:CD2	1.93	1.02
3:D:491:GLU:HA	3:D:495:TYR:CD2	1.93	1.02
1:K:479:ILE:HD11	1:K:526:LEU:HB3	1.36	1.02
1:L:219:MET:HE2	1:L:365:ARG:HD3	1.05	1.02
1:A:312:LYS:HD2	1:A:316:THR:HA	1.41	1.01
1:F:358:ARG:NH1	1:F:366:GLU:OE2	1.91	1.01
1:B:358:ARG:NH1	1:B:366:GLU:OE2	1.91	1.01
1:K:270:ASN:HB3	1:K:273:GLU:HB2	1.42	1.01
1:I:270:ASN:HB3	1:I:273:GLU:HB2	1.42	1.01
1:L:236:LYS:NZ	1:L:337:GLN:OE1	1.94	1.01
1:K:219:MET:HE2	1:K:365:ARG:HD3	1.39	1.01
1:L:270:ASN:HB3	1:L:273:GLU:HB2	1.42	1.01
1:B:312:LYS:HD2	1:B:316:THR:HA	1.41	1.00
1:G:716:ASN:HB2	1:G:719:ALA:HB2	1.44	1.00
1:F:605:LEU:HD21	1:F:633:ILE:HD13	1.43	1.00
1:J:716:ASN:HB2	1:J:719:ALA:HB2	1.44	1.00
2:C:605:LEU:HD21	2:C:633:ILE:HD13	1.43	1.00
1:K:236:LYS:NZ	1:K:337:GLN:OE1	1.94	1.00
1:J:270:ASN:HB3	1:J:273:GLU:HB2	1.42	1.00
1:L:153:LEU:HD22	1:L:198:LEU:HD22	1.38	1.00
1:I:236:LYS:NZ	1:I:337:GLN:OE1	1.94	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:236:LYS:NZ	1:G:337:GLN:OE1	1.94	0.99
1:I:716:ASN:HB2	1:I:719:ALA:HB2	1.44	0.99
2:C:491:GLU:HA	2:C:495:TYR:HD2	1.28	0.99
1:H:236:LYS:NZ	1:H:337:GLN:OE1	1.94	0.99
1:E:605:LEU:HD21	1:E:633:ILE:HD13	1.43	0.99
1:A:406:HIS:CD2	1:A:461:PRO:HB3	1.98	0.99
1:B:605:LEU:HD21	1:B:633:ILE:HD13	1.43	0.99
1:H:270:ASN:HB3	1:H:273:GLU:HB2	1.42	0.99
1:L:329:LEU:HD21	1:L:357:LEU:HD22	1.45	0.99
1:A:605:LEU:HD21	1:A:633:ILE:HD13	1.43	0.98
1:L:716:ASN:HB2	1:L:719:ALA:HB2	1.43	0.98
1:I:26:LEU:HA	1:I:82:ILE:HD13	1.46	0.98
1:L:219:MET:CE	1:L:365:ARG:HD3	1.93	0.98
1:B:406:HIS:CD2	1:B:461:PRO:HB3	1.98	0.98
1:J:236:LYS:NZ	1:J:337:GLN:OE1	1.94	0.98
1:H:716:ASN:HB2	1:H:719:ALA:HB2	1.43	0.98
3:D:406:HIS:CD2	3:D:461:PRO:HB3	1.98	0.98
1:F:406:HIS:CD2	1:F:461:PRO:HB3	1.98	0.98
1:H:329:LEU:HD21	1:H:357:LEU:HD22	1.45	0.98
1:L:26:LEU:HA	1:L:82:ILE:HD13	1.46	0.98
1:G:270:ASN:HB3	1:G:273:GLU:HB2	1.42	0.97
1:K:329:LEU:HD21	1:K:357:LEU:HD22	1.45	0.97
1:K:716:ASN:HB2	1:K:719:ALA:HB2	1.44	0.97
2:C:406:HIS:CD2	2:C:461:PRO:HB3	1.98	0.97
1:K:219:MET:CE	1:K:365:ARG:HD3	1.93	0.97
3:D:605:LEU:HD21	3:D:633:ILE:HD13	1.43	0.97
1:H:219:MET:CE	1:H:365:ARG:HD3	1.93	0.97
1:I:219:MET:CE	1:I:365:ARG:HD3	1.93	0.97
3:D:491:GLU:HA	3:D:495:TYR:HD2	1.28	0.97
1:E:406:HIS:CD2	1:E:461:PRO:HB3	1.98	0.97
1:G:219:MET:CE	1:G:365:ARG:HD3	1.93	0.97
1:B:491:GLU:HA	1:B:495:TYR:HD2	1.28	0.96
1:H:26:LEU:HA	1:H:82:ILE:HD13	1.46	0.96
1:J:26:LEU:HA	1:J:82:ILE:HD13	1.46	0.96
1:J:219:MET:CE	1:J:365:ARG:HD3	1.93	0.96
1:G:26:LEU:HA	1:G:82:ILE:HD13	1.46	0.96
1:G:329:LEU:HD21	1:G:357:LEU:HD22	1.45	0.96
1:I:329:LEU:HD21	1:I:357:LEU:HD22	1.45	0.95
1:J:425:LYS:NZ	1:J:451:ASP:OD1	2.00	0.95
1:K:26:LEU:HA	1:K:82:ILE:HD13	1.46	0.95
1:J:329:LEU:HD21	1:J:357:LEU:HD22	1.45	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:697:LEU:HD13	1:L:738:GLU:HB3	1.49	0.94
1:G:425:LYS:NZ	1:G:451:ASP:OD1	2.00	0.94
1:A:399:VAL:O	1:A:403:THR:OG1	1.86	0.94
1:H:233:ILE:HD11	1:I:158:MET:HB2	1.46	0.94
1:K:425:LYS:NZ	1:K:451:ASP:OD1	2.00	0.94
1:H:425:LYS:NZ	1:H:451:ASP:OD1	2.00	0.94
1:G:697:LEU:HD13	1:G:738:GLU:HB3	1.49	0.94
1:K:94:VAL:HG11	1:K:100:ILE:HG21	1.51	0.93
1:J:94:VAL:HG11	1:J:100:ILE:HG21	1.51	0.93
1:B:399:VAL:O	1:B:403:THR:OG1	1.86	0.93
1:I:425:LYS:NZ	1:I:451:ASP:OD1	2.00	0.93
1:K:697:LEU:HD13	1:K:738:GLU:HB3	1.49	0.93
1:E:221:GLU:O	1:E:225:ARG:N	2.01	0.93
1:A:221:GLU:O	1:A:225:ARG:N	2.01	0.93
1:B:221:GLU:O	1:B:225:ARG:N	2.01	0.93
1:L:425:LYS:NZ	1:L:451:ASP:OD1	2.00	0.93
1:L:94:VAL:HG11	1:L:100:ILE:HG21	1.50	0.93
2:C:399:VAL:O	2:C:403:THR:OG1	1.86	0.92
1:L:313:ARG:O	1:L:315:LYS:N	2.03	0.92
1:E:497:VAL:HG11	5:E:802:Y6Y:C18	2.00	0.92
1:I:62:LYS:NZ	1:I:98:ASP:OD2	2.03	0.92
2:C:221:GLU:O	2:C:225:ARG:N	2.01	0.92
1:H:118:PRO:HB2	1:H:188:PRO:HA	1.51	0.92
1:H:62:LYS:NZ	1:H:98:ASP:OD2	2.03	0.92
1:J:697:LEU:HD13	1:J:738:GLU:HB3	1.49	0.92
3:D:221:GLU:O	3:D:225:ARG:N	2.01	0.92
1:F:497:VAL:HG11	5:F:802:Y6Y:C18	2.00	0.92
1:H:313:ARG:O	1:H:315:LYS:N	2.03	0.92
1:B:497:VAL:HG11	5:B:802:Y6Y:C18	2.00	0.92
1:G:118:PRO:HB2	1:G:188:PRO:HA	1.51	0.92
1:H:697:LEU:HD13	1:H:738:GLU:HB3	1.49	0.92
1:I:313:ARG:O	1:I:315:LYS:N	2.03	0.92
1:J:62:LYS:NZ	1:J:98:ASP:OD2	2.03	0.92
1:K:313:ARG:O	1:K:315:LYS:N	2.02	0.92
2:C:497:VAL:HG11	5:C:802:Y6Y:C18	2.00	0.91
1:E:399:VAL:O	1:E:403:THR:OG1	1.86	0.91
1:G:62:LYS:NZ	1:G:98:ASP:OD2	2.03	0.91
3:D:399:VAL:O	3:D:403:THR:OG1	1.86	0.91
1:G:94:VAL:HG11	1:G:100:ILE:HG21	1.51	0.91
1:F:221:GLU:O	1:F:225:ARG:N	2.01	0.91
1:G:313:ARG:O	1:G:315:LYS:N	2.03	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:491:GLU:HA	1:A:495:TYR:HD2	1.28	0.91
1:A:497:VAL:HG11	5:A:802:Y6Y:C18	1.99	0.91
1:E:616:ASN:HA	5:E:802:Y6Y:S1	2.11	0.91
1:E:228:ALA:HB1	1:F:435:GLU:O	1.71	0.91
1:F:399:VAL:O	1:F:403:THR:OG1	1.86	0.91
1:K:62:LYS:NZ	1:K:98:ASP:OD2	2.03	0.91
1:E:491:GLU:HA	1:E:495:TYR:HD2	1.28	0.91
1:L:62:LYS:NZ	1:L:98:ASP:OD2	2.03	0.91
1:F:616:ASN:HA	5:F:802:Y6Y:S1	2.11	0.91
1:I:94:VAL:HG11	1:I:100:ILE:HG21	1.51	0.91
1:I:697:LEU:HD13	1:I:738:GLU:HB3	1.49	0.91
1:I:118:PRO:HB2	1:I:188:PRO:HA	1.51	0.91
1:J:313:ARG:O	1:J:315:LYS:N	2.03	0.91
1:A:616:ASN:HA	5:A:802:Y6Y:S1	2.10	0.90
3:D:497:VAL:HG11	5:D:802:Y6Y:C18	2.00	0.90
1:B:312:LYS:HG3	1:B:316:THR:HG23	1.53	0.90
3:D:616:ASN:HA	5:D:802:Y6Y:S1	2.11	0.90
1:F:611:MET:HG3	1:F:612:SER:H	1.36	0.90
1:H:94:VAL:HG11	1:H:100:ILE:HG21	1.51	0.90
1:J:118:PRO:HB2	1:J:188:PRO:HA	1.51	0.90
2:C:616:ASN:HA	5:C:802:Y6Y:S1	2.10	0.90
1:A:312:LYS:HG3	1:A:316:THR:HG23	1.53	0.90
1:H:149:GLY:HA2	1:H:164:LYS:HE2	1.54	0.90
1:K:118:PRO:HB2	1:K:188:PRO:HA	1.51	0.90
1:A:611:MET:HG3	1:A:612:SER:H	1.36	0.90
1:B:616:ASN:HA	5:B:802:Y6Y:S1	2.11	0.90
1:L:118:PRO:HB2	1:L:188:PRO:HA	1.51	0.90
1:I:149:GLY:HA2	1:I:164:LYS:HE2	1.54	0.89
3:D:653:ARG:NH1	3:D:676:ALA:O	2.05	0.89
1:G:149:GLY:HA2	1:G:164:LYS:HE2	1.54	0.89
1:F:653:ARG:NH1	1:F:676:ALA:O	2.05	0.89
1:E:611:MET:HG3	1:E:612:SER:H	1.36	0.89
1:E:653:ARG:NH1	1:E:676:ALA:O	2.05	0.89
1:G:336:LYS:O	1:G:337:GLN:HG2	1.73	0.89
1:A:653:ARG:NH1	1:A:676:ALA:O	2.05	0.89
2:C:312:LYS:HG3	2:C:316:THR:HG23	1.53	0.89
1:H:336:LYS:O	1:H:337:GLN:HG2	1.73	0.89
1:K:336:LYS:O	1:K:337:GLN:HG2	1.73	0.89
1:L:149:GLY:HA2	1:L:164:LYS:HE2	1.54	0.89
1:E:312:LYS:HG3	1:E:316:THR:HG23	1.53	0.88
1:K:238:PRO:HB3	1:K:365:ARG:NE	1.89	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:238:PRO:HB3	1:L:365:ARG:NE	1.89	0.88
1:F:312:LYS:HG3	1:F:316:THR:HG23	1.53	0.88
1:I:238:PRO:HB3	1:I:365:ARG:NE	1.89	0.88
3:D:312:LYS:HG3	3:D:316:THR:HG23	1.53	0.88
1:B:653:ARG:NH1	1:B:676:ALA:O	2.05	0.88
1:J:238:PRO:HB3	1:J:365:ARG:NE	1.89	0.88
1:B:611:MET:HG3	1:B:612:SER:H	1.36	0.88
1:G:238:PRO:HB3	1:G:365:ARG:NE	1.89	0.88
1:G:710:GLU:OE1	1:G:713:ARG:NH2	2.07	0.88
1:H:710:GLU:OE1	1:H:713:ARG:NH2	2.07	0.88
1:F:480:GLY:HA3	1:F:655:ALA:HB3	1.57	0.87
2:C:653:ARG:NH1	2:C:676:ALA:O	2.05	0.87
1:F:491:GLU:HA	1:F:495:TYR:HD2	1.28	0.87
1:J:336:LYS:O	1:J:337:GLN:HG2	1.73	0.87
1:L:336:LYS:O	1:L:337:GLN:HG2	1.73	0.87
1:I:336:LYS:O	1:I:337:GLN:HG2	1.73	0.87
1:K:149:GLY:HA2	1:K:164:LYS:HE2	1.54	0.87
1:E:480:GLY:HA3	1:E:655:ALA:HB3	1.57	0.87
1:J:716:ASN:CB	1:J:719:ALA:HB2	2.04	0.87
1:I:716:ASN:CB	1:I:719:ALA:HB2	2.04	0.87
1:J:149:GLY:HA2	1:J:164:LYS:HE2	1.54	0.87
3:D:611:MET:HG3	3:D:612:SER:H	1.36	0.87
1:I:710:GLU:OE1	1:I:713:ARG:NH2	2.07	0.87
1:J:710:GLU:OE1	1:J:713:ARG:NH2	2.07	0.87
1:K:710:GLU:OE1	1:K:713:ARG:NH2	2.07	0.87
1:A:480:GLY:HA3	1:A:655:ALA:HB3	1.57	0.87
1:E:709:ARG:HA	1:E:712:GLU:OE1	1.73	0.87
1:H:238:PRO:HB3	1:H:365:ARG:NE	1.89	0.87
1:L:710:GLU:OE1	1:L:713:ARG:NH2	2.07	0.87
3:D:480:GLY:HA3	3:D:655:ALA:HB3	1.57	0.86
1:L:716:ASN:CB	1:L:719:ALA:HB2	2.04	0.86
1:J:461:PRO:HA	1:J:462:SER:CB	2.01	0.86
1:A:286:LEU:HD21	1:A:328:LEU:HD13	1.57	0.86
1:G:716:ASN:CB	1:G:719:ALA:HB2	2.04	0.86
1:H:138:TYR:HD2	1:H:154:VAL:HG12	1.39	0.86
1:H:716:ASN:CB	1:H:719:ALA:HB2	2.04	0.86
1:G:138:TYR:HD2	1:G:154:VAL:HG12	1.39	0.86
1:K:716:ASN:CB	1:K:719:ALA:HB2	2.04	0.86
1:K:138:TYR:HD2	1:K:154:VAL:HG12	1.39	0.86
2:C:611:MET:HG3	2:C:612:SER:H	1.36	0.86
1:H:26:LEU:HD23	1:H:100:ILE:HG13	1.58	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:461:PRO:HA	1:I:462:SER:CB	2.01	0.86
1:F:286:LEU:HD21	1:F:328:LEU:HD13	1.57	0.86
1:G:26:LEU:HD23	1:G:100:ILE:HG13	1.58	0.86
1:K:27:ILE:HD12	1:K:99:VAL:HG22	1.58	0.86
1:B:286:LEU:HD21	1:B:328:LEU:HD13	1.57	0.86
1:I:379:GLU:O	1:I:383:ILE:HD12	1.76	0.86
1:L:441:VAL:O	1:L:444:SER:OG	1.94	0.86
3:D:286:LEU:HD21	3:D:328:LEU:HD13	1.57	0.85
1:I:26:LEU:HD23	1:I:100:ILE:HG13	1.58	0.85
1:L:27:ILE:HD12	1:L:99:VAL:HG22	1.58	0.85
2:C:480:GLY:HA3	2:C:655:ALA:HB3	1.57	0.85
1:J:26:LEU:HD23	1:J:100:ILE:HG13	1.58	0.85
1:J:379:GLU:O	1:J:383:ILE:HD12	1.76	0.85
1:L:379:GLU:O	1:L:383:ILE:HD12	1.76	0.85
1:K:379:GLU:O	1:K:383:ILE:HD12	1.76	0.85
1:K:441:VAL:O	1:K:444:SER:OG	1.94	0.85
1:J:138:TYR:HD2	1:J:154:VAL:HG12	1.39	0.85
1:B:480:GLY:HA3	1:B:655:ALA:HB3	1.57	0.85
1:I:138:TYR:HD2	1:I:154:VAL:HG12	1.39	0.85
1:K:26:LEU:HD23	1:K:100:ILE:HG13	1.58	0.85
1:E:286:LEU:HD21	1:E:328:LEU:HD13	1.57	0.85
1:K:219:MET:HE2	1:K:365:ARG:HH11	1.41	0.85
1:L:138:TYR:HD2	1:L:154:VAL:HG12	1.39	0.85
1:H:379:GLU:O	1:H:383:ILE:HD12	1.76	0.84
1:L:26:LEU:HD23	1:L:100:ILE:HG13	1.58	0.84
1:G:27:ILE:HD12	1:G:99:VAL:HG22	1.58	0.84
1:J:27:ILE:HD12	1:J:99:VAL:HG22	1.58	0.84
1:I:441:VAL:O	1:I:444:SER:OG	1.94	0.84
1:G:571:PRO:HA	1:G:616:ASN:HB3	1.59	0.84
2:C:286:LEU:HD21	2:C:328:LEU:HD13	1.57	0.84
1:G:379:GLU:O	1:G:383:ILE:HD12	1.76	0.84
1:G:219:MET:HE2	1:G:365:ARG:HH11	1.43	0.84
1:H:441:VAL:O	1:H:444:SER:OG	1.94	0.84
1:L:571:PRO:HA	1:L:616:ASN:HB3	1.59	0.84
1:H:219:MET:HE2	1:H:365:ARG:HH11	1.43	0.84
1:H:461:PRO:HA	1:H:462:SER:CB	2.01	0.84
1:B:360:PHE:HZ	2:C:462:SER:HG	1.26	0.83
1:G:441:VAL:O	1:G:444:SER:OG	1.94	0.83
3:D:228:ALA:HB1	1:E:435:GLU:O	1.78	0.83
1:J:441:VAL:O	1:J:444:SER:OG	1.94	0.83
1:H:27:ILE:HD12	1:H:99:VAL:HG22	1.58	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:27:ILE:HD12	1:I:99:VAL:HG22	1.58	0.83
1:H:502:LYS:HZ3	1:I:703:ILE:HA	1.44	0.83
1:H:571:PRO:HA	1:H:616:ASN:HB3	1.59	0.83
1:I:502:LYS:HZ3	1:J:703:ILE:HA	1.43	0.83
1:J:571:PRO:HA	1:J:616:ASN:HB3	1.59	0.83
1:A:700:ARG:HD3	1:F:491:GLU:OE2	1.79	0.82
1:K:41:LEU:HD12	1:K:71:VAL:HG11	1.61	0.82
1:K:571:PRO:HA	1:K:616:ASN:HB3	1.59	0.82
1:H:157:GLY:H	1:H:389:LYS:HZ3	1.26	0.82
1:L:41:LEU:HD12	1:L:71:VAL:HG11	1.62	0.82
1:I:693:ARG:HD3	1:I:742:PHE:HD1	1.44	0.82
1:K:764:GLN:HG3	1:L:742:PHE:HA	1.59	0.82
1:L:157:GLY:H	1:L:389:LYS:NZ	1.77	0.82
1:I:571:PRO:HA	1:I:616:ASN:HB3	1.59	0.82
1:J:119:ILE:CG1	1:J:191:ARG:HB2	2.10	0.82
1:G:41:LEU:HD12	1:G:71:VAL:HG11	1.62	0.82
1:G:461:PRO:HA	1:G:462:SER:CB	2.01	0.82
3:D:771:PHE:HE1	1:E:678:MET:HG3	1.45	0.82
3:D:556:GLU:OE1	3:D:556:GLU:N	2.13	0.82
1:E:556:GLU:N	1:E:556:GLU:OE1	2.13	0.82
1:F:556:GLU:OE1	1:F:556:GLU:N	2.13	0.82
1:I:119:ILE:CG1	1:I:191:ARG:HB2	2.10	0.82
1:K:157:GLY:H	1:K:389:LYS:NZ	1.77	0.82
1:B:424:ARG:HA	1:B:428:ASP:OD2	1.80	0.82
2:C:424:ARG:HA	2:C:428:ASP:OD2	1.80	0.82
1:E:424:ARG:HA	1:E:428:ASP:OD2	1.80	0.81
1:G:119:ILE:CG1	1:G:191:ARG:HB2	2.10	0.81
1:H:693:ARG:HD3	1:H:742:PHE:HD1	1.44	0.81
1:H:41:LEU:HD12	1:H:71:VAL:HG11	1.62	0.81
1:A:424:ARG:HA	1:A:428:ASP:OD2	1.80	0.81
1:G:693:ARG:HD3	1:G:742:PHE:HD1	1.44	0.81
1:J:157:GLY:H	1:J:389:LYS:NZ	1.77	0.81
1:J:693:ARG:HD3	1:J:742:PHE:HD1	1.44	0.81
1:L:119:ILE:CG1	1:L:191:ARG:HB2	2.10	0.81
1:J:157:GLY:H	1:J:389:LYS:HZ3	1.27	0.81
2:C:556:GLU:OE1	2:C:556:GLU:N	2.13	0.81
3:D:424:ARG:HA	3:D:428:ASP:OD2	1.80	0.81
1:J:41:LEU:HD12	1:J:71:VAL:HG11	1.62	0.81
1:E:751:ASP:O	1:E:755:TYR:HD1	1.64	0.81
1:I:41:LEU:HD12	1:I:71:VAL:HG11	1.62	0.81
1:A:556:GLU:OE1	1:A:556:GLU:N	2.13	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:760:GLN:HG2	1:K:760:GLN:OE1	1.81	0.81
1:F:751:ASP:O	1:F:755:TYR:HD1	1.64	0.81
1:A:751:ASP:O	1:A:755:TYR:HD1	1.64	0.81
3:D:751:ASP:O	3:D:755:TYR:HD1	1.64	0.81
1:B:751:ASP:O	1:B:755:TYR:HD1	1.64	0.81
1:B:760:GLN:HG2	1:G:760:GLN:OE1	1.79	0.81
2:C:751:ASP:O	2:C:755:TYR:HD1	1.64	0.81
1:G:157:GLY:H	1:G:389:LYS:NZ	1.77	0.81
1:K:119:ILE:CG1	1:K:191:ARG:HB2	2.10	0.81
1:H:157:GLY:H	1:H:389:LYS:NZ	1.77	0.80
1:I:157:GLY:H	1:I:389:LYS:NZ	1.77	0.80
1:F:424:ARG:HA	1:F:428:ASP:OD2	1.80	0.80
1:E:624:ASN:O	1:E:755:TYR:OH	2.00	0.80
1:H:119:ILE:CG1	1:H:191:ARG:HB2	2.10	0.80
1:A:435:GLU:O	1:F:228:ALA:HB1	1.82	0.80
1:K:693:ARG:HD3	1:K:742:PHE:HD1	1.44	0.80
1:E:281:GLU:O	1:E:284:SER:OG	2.00	0.80
1:E:656:ILE:O	1:E:660:ASN:ND2	2.15	0.80
1:A:281:GLU:O	1:A:284:SER:OG	2.00	0.80
2:C:656:ILE:O	2:C:660:ASN:ND2	2.15	0.80
3:D:281:GLU:O	3:D:284:SER:OG	2.00	0.80
1:F:281:GLU:O	1:F:284:SER:OG	2.00	0.80
1:A:656:ILE:O	1:A:660:ASN:ND2	2.15	0.79
3:D:219:MET:HE2	3:D:365:ARG:HH21	1.44	0.79
3:D:624:ASN:O	3:D:755:TYR:OH	1.99	0.79
1:J:764:GLN:HG3	1:K:742:PHE:HA	1.64	0.79
1:E:219:MET:HE2	1:E:365:ARG:HH21	1.47	0.79
1:G:576:PHE:HB3	1:G:579:LEU:HD13	1.64	0.79
1:J:570:ALA:HB1	1:J:616:ASN:HB2	1.64	0.79
1:L:693:ARG:HD3	1:L:742:PHE:HD1	1.44	0.79
1:B:556:GLU:OE1	1:B:556:GLU:N	2.13	0.79
1:G:764:GLN:HG3	1:H:742:PHE:HA	1.64	0.79
1:I:41:LEU:HD12	1:I:71:VAL:CG1	2.13	0.79
1:B:281:GLU:O	1:B:284:SER:OG	2.00	0.79
1:J:41:LEU:HD12	1:J:71:VAL:CG1	2.12	0.79
1:K:414:LEU:HD11	1:K:456:LEU:HD23	1.64	0.79
1:F:219:MET:HE2	1:F:365:ARG:HH21	1.46	0.79
2:C:210:ARG:O	2:C:211:LYS:HG2	1.83	0.79
2:C:219:MET:HE2	2:C:365:ARG:HH21	1.47	0.79
1:L:190:LYS:NZ	1:L:191:ARG:O	2.15	0.79
2:C:760:GLN:HG2	1:L:760:GLN:OE1	1.83	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:760:GLN:HG2	1:I:760:GLN:OE1	1.83	0.79
1:H:41:LEU:HD12	1:H:71:VAL:CG1	2.13	0.79
1:A:760:GLN:HG2	1:H:760:GLN:OE1	1.81	0.79
2:C:360:PHE:HZ	3:D:462:SER:HG	1.31	0.79
1:J:576:PHE:HB3	1:J:579:LEU:HD13	1.64	0.79
1:A:203:TYR:N	1:A:261:GLU:OE2	2.16	0.79
1:J:414:LEU:HD11	1:J:456:LEU:HD23	1.64	0.79
1:L:576:PHE:HB3	1:L:579:LEU:HD13	1.64	0.79
1:B:656:ILE:O	1:B:660:ASN:ND2	2.15	0.78
2:C:281:GLU:O	2:C:284:SER:OG	2.00	0.78
1:E:210:ARG:O	1:E:211:LYS:HG2	1.83	0.78
1:H:190:LYS:NZ	1:H:191:ARG:O	2.15	0.78
1:H:524:LYS:NZ	1:H:624:ASN:OD1	2.17	0.78
1:K:576:PHE:HB3	1:K:579:LEU:HD13	1.64	0.78
1:E:336:LYS:O	1:E:337:GLN:HG2	1.84	0.78
1:A:210:ARG:O	1:A:211:LYS:HG2	1.83	0.78
2:C:476:TRP:NE1	2:C:534:GLU:OE1	2.17	0.78
3:D:210:ARG:O	3:D:211:LYS:HG2	1.83	0.78
1:H:656:ILE:O	1:H:660:ASN:ND2	2.17	0.78
1:J:190:LYS:NZ	1:J:191:ARG:O	2.15	0.78
1:K:570:ALA:HB1	1:K:616:ASN:HB2	1.64	0.78
1:L:461:PRO:HA	1:L:462:SER:CB	2.01	0.78
1:A:624:ASN:O	1:A:755:TYR:OH	1.99	0.78
1:B:203:TYR:N	1:B:261:GLU:OE2	2.16	0.78
1:F:703:ILE:O	1:F:707:ILE:HG12	1.84	0.78
1:H:570:ALA:HB1	1:H:616:ASN:HB2	1.65	0.78
1:B:624:ASN:O	1:B:755:TYR:OH	2.00	0.78
1:E:703:ILE:O	1:E:707:ILE:HG12	1.84	0.78
1:F:656:ILE:O	1:F:660:ASN:ND2	2.15	0.78
1:I:570:ALA:HB1	1:I:616:ASN:HB2	1.64	0.78
3:D:656:ILE:O	3:D:660:ASN:ND2	2.15	0.78
1:F:624:ASN:O	1:F:755:TYR:OH	1.99	0.78
1:G:703:ILE:HA	1:L:502:LYS:HZ3	1.48	0.78
1:I:656:ILE:O	1:I:660:ASN:ND2	2.17	0.78
1:B:476:TRP:NE1	1:B:534:GLU:OE1	2.17	0.78
1:F:210:ARG:O	1:F:211:LYS:HG2	1.83	0.78
1:G:41:LEU:HD12	1:G:71:VAL:CG1	2.12	0.78
1:H:222:LEU:HD21	1:I:424:ARG:HG2	1.64	0.78
1:K:41:LEU:HD12	1:K:71:VAL:CG1	2.12	0.78
1:A:219:MET:HE2	1:A:365:ARG:HH21	1.47	0.78
1:B:219:MET:HE2	1:B:365:ARG:HH21	1.48	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:203:TYR:N	2:C:261:GLU:OE2	2.16	0.78
1:E:476:TRP:NE1	1:E:534:GLU:OE1	2.17	0.78
1:G:524:LYS:NZ	1:G:624:ASN:OD1	2.17	0.78
1:I:524:LYS:NZ	1:I:624:ASN:OD1	2.17	0.78
1:I:576:PHE:HB3	1:I:579:LEU:HD13	1.64	0.78
1:L:656:ILE:O	1:L:660:ASN:ND2	2.17	0.78
1:B:336:LYS:O	1:B:337:GLN:HG2	1.84	0.78
2:C:336:LYS:O	2:C:337:GLN:HG2	1.84	0.78
1:I:126:ILE:HD12	1:I:130:LEU:HB2	1.66	0.78
1:L:41:LEU:HD12	1:L:71:VAL:CG1	2.12	0.78
1:L:524:LYS:NZ	1:L:624:ASN:OD1	2.17	0.78
1:A:283:GLU:OE2	1:A:324:ILE:HA	1.85	0.77
1:A:476:TRP:NE1	1:A:534:GLU:OE1	2.17	0.77
3:D:336:LYS:O	3:D:337:GLN:HG2	1.84	0.77
1:H:576:PHE:HB3	1:H:579:LEU:HD13	1.64	0.77
1:K:157:GLY:H	1:K:389:LYS:HZ3	1.29	0.77
1:K:524:LYS:NZ	1:K:624:ASN:OD1	2.17	0.77
1:A:336:LYS:O	1:A:337:GLN:HG2	1.84	0.77
3:D:476:TRP:NE1	3:D:534:GLU:OE1	2.17	0.77
1:G:656:ILE:O	1:G:660:ASN:ND2	2.17	0.77
1:H:414:LEU:HD11	1:H:456:LEU:HD23	1.64	0.77
1:I:157:GLY:H	1:I:389:LYS:HZ3	1.30	0.77
1:J:656:ILE:O	1:J:660:ASN:ND2	2.17	0.77
1:B:283:GLU:OE2	1:B:324:ILE:HA	1.85	0.77
1:E:480:GLY:HA3	1:E:655:ALA:CB	2.15	0.77
2:C:283:GLU:OE2	2:C:324:ILE:HA	1.84	0.77
3:D:203:TYR:N	3:D:261:GLU:OE2	2.15	0.77
1:F:283:GLU:OE2	1:F:324:ILE:HA	1.85	0.77
1:G:209:CYS:SG	1:G:212:GLN:HB2	2.24	0.77
1:G:507:GLY:HA2	5:G:802:Y6Y:O1	1.85	0.77
1:J:524:LYS:NZ	1:J:624:ASN:OD1	2.17	0.77
1:L:414:LEU:HD11	1:L:456:LEU:HD23	1.64	0.77
2:C:624:ASN:O	2:C:755:TYR:OH	2.00	0.77
1:E:349:ARG:NE	1:E:351:ASN:OD1	2.18	0.77
1:E:524:LYS:NZ	1:E:624:ASN:OD1	2.18	0.77
1:F:336:LYS:O	1:F:337:GLN:HG2	1.84	0.77
1:J:111:GLY:HA2	1:J:170:PRO:HG3	1.66	0.77
1:J:253:LEU:HD11	4:J:801:ADP:H2'	1.67	0.77
1:B:210:ARG:O	1:B:211:LYS:HG2	1.83	0.77
2:C:397:GLU:O	2:C:401:ASN:ND2	2.18	0.77
3:D:283:GLU:OE2	3:D:324:ILE:HA	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:480:GLY:HA3	3:D:655:ALA:CB	2.15	0.77
1:F:480:GLY:HA3	1:F:655:ALA:CB	2.15	0.77
1:G:414:LEU:HD11	1:G:456:LEU:HD23	1.64	0.77
1:B:524:LYS:NZ	1:B:624:ASN:OD1	2.18	0.77
1:B:703:ILE:O	1:B:707:ILE:HG12	1.84	0.77
3:D:397:GLU:O	3:D:401:ASN:ND2	2.18	0.77
1:E:283:GLU:OE2	1:E:324:ILE:HA	1.84	0.77
1:I:219:MET:HE2	1:I:365:ARG:HH11	1.49	0.77
1:I:414:LEU:HD11	1:I:456:LEU:HD23	1.64	0.77
1:J:126:ILE:HD12	1:J:130:LEU:HB2	1.66	0.77
1:K:253:LEU:HD11	4:K:801:ADP:H2'	1.67	0.77
2:C:771:PHE:HE1	3:D:678:MET:HG3	1.49	0.77
1:E:569:ALA:O	1:E:572:CYS:HB2	1.85	0.77
1:F:203:TYR:N	1:F:261:GLU:OE2	2.15	0.77
1:I:209:CYS:SG	1:I:212:GLN:HB2	2.25	0.77
1:K:507:GLY:HA2	5:K:802:Y6Y:O1	1.85	0.77
1:B:397:GLU:O	1:B:401:ASN:ND2	2.18	0.77
3:D:703:ILE:O	3:D:707:ILE:HG12	1.84	0.77
1:E:274:ILE:HD11	1:E:309:ILE:HG12	1.67	0.77
1:F:349:ARG:NE	1:F:351:ASN:OD1	2.18	0.77
1:G:570:ALA:HB1	1:G:616:ASN:HB2	1.64	0.77
1:H:209:CYS:SG	1:H:212:GLN:HB2	2.25	0.77
1:I:507:GLY:HA2	5:I:802:Y6Y:O1	1.85	0.77
1:J:507:GLY:HA2	5:J:802:Y6Y:O1	1.85	0.77
1:L:209:CYS:SG	1:L:212:GLN:HB2	2.25	0.77
1:A:703:ILE:O	1:A:707:ILE:HG12	1.84	0.77
1:A:274:ILE:HD11	1:A:309:ILE:HG12	1.67	0.76
2:C:274:ILE:HD11	2:C:309:ILE:HG12	1.67	0.76
2:C:524:LYS:NZ	2:C:624:ASN:OD1	2.18	0.76
3:D:274:ILE:HD11	3:D:309:ILE:HG12	1.67	0.76
1:F:274:ILE:HD11	1:F:309:ILE:HG12	1.67	0.76
1:F:476:TRP:NE1	1:F:534:GLU:OE1	2.17	0.76
1:H:126:ILE:HD12	1:H:130:LEU:HB2	1.66	0.76
1:K:656:ILE:O	1:K:660:ASN:ND2	2.17	0.76
1:L:570:ALA:HB1	1:L:616:ASN:HB2	1.64	0.76
1:F:569:ALA:O	1:F:572:CYS:HB2	1.85	0.76
1:G:111:GLY:HA2	1:G:170:PRO:HG3	1.66	0.76
1:J:209:CYS:SG	1:J:212:GLN:HB2	2.25	0.76
1:K:209:CYS:SG	1:K:212:GLN:HB2	2.25	0.76
1:L:126:ILE:HD12	1:L:130:LEU:HB2	1.66	0.76
1:B:274:ILE:HD11	1:B:309:ILE:HG12	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:703:ILE:O	2:C:707:ILE:HG12	1.84	0.76
1:E:397:GLU:O	1:E:401:ASN:ND2	2.18	0.76
1:E:495:TYR:CE1	1:F:703:ILE:HG21	2.21	0.76
1:I:253:LEU:HD11	4:I:801:ADP:H2'	1.67	0.76
1:J:320:VAL:O	1:J:324:ILE:HG12	1.86	0.76
1:K:111:GLY:HA2	1:K:170:PRO:HG3	1.66	0.76
1:L:253:LEU:HD11	4:L:801:ADP:H2'	1.67	0.76
1:I:223:PRO:HG3	1:I:237:PRO:HB2	1.67	0.76
1:I:320:VAL:O	1:I:324:ILE:HG12	1.86	0.76
1:A:397:GLU:O	1:A:401:ASN:ND2	2.18	0.76
2:C:480:GLY:HA3	2:C:655:ALA:CB	2.15	0.76
2:C:482:LEU:HD12	2:C:527:LEU:HD21	1.68	0.76
3:D:349:ARG:NE	3:D:351:ASN:OD1	2.18	0.76
1:G:126:ILE:HD12	1:G:130:LEU:HB2	1.66	0.76
1:G:320:VAL:O	1:G:324:ILE:HG12	1.86	0.76
1:H:198:LEU:HD23	1:H:198:LEU:O	1.86	0.76
1:I:468:VAL:HG22	1:I:470:GLU:OE1	1.85	0.76
1:B:482:LEU:HD12	1:B:527:LEU:HD21	1.68	0.76
1:F:524:LYS:NZ	1:F:624:ASN:OD1	2.18	0.76
1:H:507:GLY:HA2	5:H:802:Y6Y:O1	1.85	0.76
1:L:198:LEU:O	1:L:198:LEU:HD23	1.86	0.76
1:A:480:GLY:HA3	1:A:655:ALA:CB	2.15	0.76
2:C:491:GLU:OE2	3:D:700:ARG:HD3	1.86	0.76
1:E:203:TYR:N	1:E:261:GLU:OE2	2.16	0.76
1:F:397:GLU:O	1:F:401:ASN:ND2	2.18	0.76
1:G:198:LEU:O	1:G:198:LEU:HD23	1.86	0.76
1:H:253:LEU:HD11	4:H:801:ADP:H2'	1.67	0.76
1:K:198:LEU:HD23	1:K:198:LEU:O	1.86	0.76
1:L:223:PRO:HG3	1:L:237:PRO:HB2	1.67	0.76
3:D:524:LYS:NZ	3:D:624:ASN:OD1	2.18	0.76
3:D:569:ALA:O	3:D:572:CYS:HB2	1.85	0.76
1:E:760:GLN:HG2	1:J:760:GLN:OE1	1.86	0.76
1:L:111:GLY:HA2	1:L:170:PRO:HG3	1.66	0.76
1:B:771:PHE:HE1	2:C:678:MET:HG3	1.51	0.76
1:G:253:LEU:HD11	4:G:801:ADP:H2'	1.67	0.76
1:G:468:VAL:HG22	1:G:470:GLU:OE1	1.85	0.76
1:H:223:PRO:HG3	1:H:237:PRO:HB2	1.67	0.76
1:H:320:VAL:O	1:H:324:ILE:HG12	1.86	0.76
1:I:190:LYS:NZ	1:I:191:ARG:O	2.15	0.76
1:A:277:LYS:HB3	1:A:281:GLU:OE2	1.86	0.76
1:G:427:MET:O	1:G:430:ILE:HG12	1.86	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:198:LEU:HD23	1:I:198:LEU:O	1.86	0.76
1:J:223:PRO:HG3	1:J:237:PRO:HB2	1.67	0.76
1:K:223:PRO:HG3	1:K:237:PRO:HB2	1.67	0.76
1:L:468:VAL:HG22	1:L:470:GLU:OE1	1.85	0.76
1:A:524:LYS:NZ	1:A:624:ASN:OD1	2.18	0.75
3:D:482:LEU:HD12	3:D:527:LEU:HD21	1.68	0.75
1:G:223:PRO:HG3	1:G:237:PRO:HB2	1.67	0.75
1:H:468:VAL:HG22	1:H:470:GLU:OE1	1.85	0.75
1:L:507:GLY:HA2	5:L:802:Y6Y:O1	1.85	0.75
3:D:277:LYS:HB3	3:D:281:GLU:OE2	1.86	0.75
1:H:111:GLY:HA2	1:H:170:PRO:HG3	1.66	0.75
1:H:716:ASN:HB2	1:H:719:ALA:CB	2.16	0.75
1:I:111:GLY:HA2	1:I:170:PRO:HG3	1.66	0.75
1:K:468:VAL:HG22	1:K:470:GLU:OE1	1.85	0.75
1:A:482:LEU:HD12	1:A:527:LEU:HD21	1.68	0.75
1:B:277:LYS:HB3	1:B:281:GLU:OE2	1.86	0.75
1:J:468:VAL:HG22	1:J:470:GLU:OE1	1.85	0.75
1:J:716:ASN:HB2	1:J:719:ALA:CB	2.16	0.75
1:L:427:MET:O	1:L:430:ILE:HG12	1.86	0.75
1:A:569:ALA:O	1:A:572:CYS:HB2	1.85	0.75
1:F:277:LYS:HB3	1:F:281:GLU:OE2	1.86	0.75
1:H:84:MET:HE2	1:H:88:VAL:HG23	1.68	0.75
1:K:320:VAL:O	1:K:324:ILE:HG12	1.86	0.75
1:A:349:ARG:NE	1:A:351:ASN:OD1	2.18	0.75
1:G:274:ILE:HD11	1:G:309:ILE:HG12	1.68	0.75
1:H:427:MET:O	1:H:430:ILE:HG12	1.86	0.75
1:J:198:LEU:O	1:J:198:LEU:HD23	1.86	0.75
1:B:321:GLU:O	1:B:324:ILE:HG22	1.87	0.75
2:C:349:ARG:NE	2:C:351:ASN:OD1	2.18	0.75
1:E:482:LEU:HD12	1:E:527:LEU:HD21	1.68	0.75
1:H:512:LYS:HE3	1:H:617:VAL:O	1.87	0.75
1:I:716:ASN:HB2	1:I:719:ALA:CB	2.16	0.75
1:J:274:ILE:HD11	1:J:309:ILE:HG12	1.68	0.75
1:A:321:GLU:O	1:A:324:ILE:HG22	1.87	0.75
1:B:480:GLY:HA3	1:B:655:ALA:CB	2.15	0.75
2:C:569:ALA:O	2:C:572:CYS:HB2	1.85	0.75
1:F:482:LEU:HD12	1:F:527:LEU:HD21	1.68	0.75
1:G:190:LYS:NZ	1:G:191:ARG:O	2.15	0.75
1:G:512:LYS:HE3	1:G:617:VAL:O	1.87	0.75
1:G:716:ASN:HB2	1:G:719:ALA:CB	2.16	0.75
1:G:742:PHE:HA	1:L:764:GLN:HG3	1.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:427:MET:O	1:I:430:ILE:HG12	1.86	0.75
1:L:512:LYS:HE3	1:L:617:VAL:O	1.87	0.75
1:B:613:THR:HG21	2:C:464:LEU:HD21	1.68	0.75
3:D:321:GLU:O	3:D:324:ILE:HG22	1.87	0.75
1:E:277:LYS:HB3	1:E:281:GLU:OE2	1.86	0.75
1:E:321:GLU:O	1:E:324:ILE:HG22	1.87	0.75
1:G:113:ARG:HA	1:G:181:VAL:O	1.87	0.75
1:K:126:ILE:HD12	1:K:130:LEU:HB2	1.66	0.75
1:H:274:ILE:HD11	1:H:309:ILE:HG12	1.68	0.74
1:K:716:ASN:HB2	1:K:719:ALA:CB	2.16	0.74
2:C:277:LYS:HB3	2:C:281:GLU:OE2	1.86	0.74
3:D:556:GLU:OE2	3:D:599:ARG:NE	2.16	0.74
1:K:427:MET:O	1:K:430:ILE:HG12	1.86	0.74
1:H:228:ALA:HB3	1:I:433:GLU:OE2	1.86	0.74
1:L:274:ILE:HD11	1:L:309:ILE:HG12	1.68	0.74
1:L:320:VAL:O	1:L:324:ILE:HG12	1.86	0.74
1:B:569:ALA:O	1:B:572:CYS:HB2	1.85	0.74
1:I:274:ILE:HD11	1:I:309:ILE:HG12	1.68	0.74
1:J:427:MET:O	1:J:430:ILE:HG12	1.86	0.74
1:K:26:LEU:HA	1:K:82:ILE:CD1	2.17	0.74
1:K:113:ARG:HA	1:K:181:VAL:O	1.87	0.74
1:A:703:ILE:HG21	1:F:495:TYR:CE1	2.23	0.74
1:L:113:ARG:HA	1:L:181:VAL:O	1.87	0.74
1:H:657:LEU:HB3	1:H:672:LEU:HD11	1.70	0.74
2:C:321:GLU:O	2:C:324:ILE:HG22	1.87	0.74
1:E:556:GLU:OE2	1:E:599:ARG:NE	2.16	0.74
1:I:657:LEU:HB3	1:I:672:LEU:HD11	1.70	0.74
1:K:274:ILE:HD11	1:K:309:ILE:HG12	1.68	0.74
1:K:657:LEU:HB3	1:K:672:LEU:HD11	1.70	0.74
1:B:349:ARG:NE	1:B:351:ASN:OD1	2.18	0.74
1:E:216:ILE:HD11	1:E:243:LEU:HD21	1.70	0.74
1:E:306:LEU:HB3	1:E:347:THR:HG22	1.70	0.74
1:F:556:GLU:OE2	1:F:599:ARG:NE	2.17	0.74
1:G:657:LEU:HB3	1:G:672:LEU:HD11	1.70	0.74
1:H:270:ASN:OD1	1:H:272:PRO:HD2	1.88	0.74
1:J:657:LEU:HB3	1:J:672:LEU:HD11	1.70	0.74
1:L:26:LEU:HA	1:L:82:ILE:CD1	2.17	0.74
1:G:502:LYS:HZ3	1:H:703:ILE:HA	1.50	0.74
1:J:26:LEU:HA	1:J:82:ILE:CD1	2.17	0.74
1:J:219:MET:HE2	1:J:365:ARG:HH11	1.52	0.74
1:B:760:GLN:HB3	1:G:760:GLN:HE22	1.52	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:216:ILE:HD11	3:D:243:LEU:HD21	1.70	0.73
3:D:306:LEU:HB3	3:D:347:THR:HG22	1.70	0.73
1:F:306:LEU:HB3	1:F:347:THR:HG22	1.70	0.73
1:I:270:ASN:OD1	1:I:272:PRO:HD2	1.88	0.73
1:J:512:LYS:HE3	1:J:617:VAL:O	1.87	0.73
1:K:270:ASN:OD1	1:K:272:PRO:HD2	1.88	0.73
1:H:113:ARG:HA	1:H:181:VAL:O	1.87	0.73
1:K:190:LYS:NZ	1:K:191:ARG:O	2.15	0.73
1:L:657:LEU:HB3	1:L:672:LEU:HD11	1.70	0.73
2:C:306:LEU:HB3	2:C:347:THR:HG22	1.70	0.73
1:H:118:PRO:HB2	1:H:188:PRO:CA	2.18	0.73
1:L:58:LEU:HD23	1:L:66:GLU:OE2	1.89	0.73
1:I:118:PRO:HB2	1:I:188:PRO:CA	2.18	0.73
1:A:306:LEU:HB3	1:A:347:THR:HG22	1.70	0.73
1:A:312:LYS:CD	1:A:316:THR:HA	2.19	0.73
1:B:306:LEU:HB3	1:B:347:THR:HG22	1.70	0.73
1:G:424:ARG:HG2	1:L:222:LEU:HD21	1.69	0.73
1:L:26:LEU:HD21	1:L:59:LEU:HD22	1.70	0.73
1:L:426:LYS:HD3	1:L:427:MET:H	1.54	0.73
1:L:716:ASN:HB2	1:L:719:ALA:CB	2.15	0.73
1:F:321:GLU:O	1:F:324:ILE:HG22	1.87	0.73
1:H:426:LYS:HD3	1:H:427:MET:H	1.54	0.73
1:I:113:ARG:HA	1:I:181:VAL:O	1.87	0.73
1:G:570:ALA:HB1	1:G:616:ASN:CB	2.19	0.73
1:I:26:LEU:HA	1:I:82:ILE:CD1	2.17	0.73
1:I:222:LEU:HD21	1:J:424:ARG:HG2	1.68	0.73
1:I:426:LYS:HD3	1:I:427:MET:H	1.54	0.73
1:J:58:LEU:HD23	1:J:66:GLU:OE2	1.89	0.73
1:J:113:ARG:HA	1:J:181:VAL:O	1.87	0.73
2:C:219:MET:HG2	2:C:365:ARG:NH2	2.04	0.73
1:F:219:MET:HG2	1:F:365:ARG:NH2	2.04	0.73
1:H:570:ALA:HB1	1:H:616:ASN:CB	2.19	0.73
1:K:512:LYS:HE3	1:K:617:VAL:O	1.87	0.73
1:B:216:ILE:HD11	1:B:243:LEU:HD21	1.70	0.73
1:G:26:LEU:HD21	1:G:59:LEU:HD22	1.70	0.73
1:L:321:GLU:O	1:L:325:VAL:HG23	1.89	0.73
2:C:216:ILE:HD11	2:C:243:LEU:HD21	1.70	0.73
1:G:270:ASN:OD1	1:G:272:PRO:HD2	1.88	0.73
1:G:426:LYS:HD3	1:G:427:MET:H	1.54	0.73
1:I:321:GLU:O	1:I:325:VAL:HG23	1.89	0.73
1:J:321:GLU:O	1:J:325:VAL:HG23	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:570:ALA:HB1	1:J:616:ASN:CB	2.19	0.73
1:K:321:GLU:O	1:K:325:VAL:HG23	1.89	0.73
1:B:556:GLU:OE2	1:B:599:ARG:NE	2.17	0.72
3:D:219:MET:HG2	3:D:365:ARG:NH2	2.04	0.72
1:G:58:LEU:HD23	1:G:66:GLU:OE2	1.89	0.72
1:G:118:PRO:HB2	1:G:188:PRO:CA	2.18	0.72
1:H:502:LYS:HZ2	1:I:706:GLU:HG3	1.51	0.72
1:K:26:LEU:HD21	1:K:59:LEU:HD22	1.70	0.72
1:B:312:LYS:CD	1:B:316:THR:HA	2.19	0.72
1:G:26:LEU:HA	1:G:82:ILE:CD1	2.17	0.72
1:H:58:LEU:HD23	1:H:66:GLU:OE2	1.89	0.72
1:I:58:LEU:HD23	1:I:66:GLU:OE2	1.89	0.72
1:K:58:LEU:HD23	1:K:66:GLU:OE2	1.89	0.72
1:L:570:ALA:HB1	1:L:616:ASN:CB	2.19	0.72
1:G:321:GLU:O	1:G:325:VAL:HG23	1.89	0.72
1:J:118:PRO:HB2	1:J:188:PRO:CA	2.18	0.72
1:K:570:ALA:HB1	1:K:616:ASN:CB	2.19	0.72
3:D:760:GLN:HB3	1:K:760:GLN:HE22	1.53	0.72
1:F:312:LYS:CD	1:F:316:THR:HA	2.18	0.72
1:J:270:ASN:OD1	1:J:272:PRO:HD2	1.88	0.72
1:B:327:GLN:HE22	1:B:331:LEU:HD11	1.55	0.72
1:J:773:PHE:HE2	1:K:736:PHE:HB3	1.55	0.72
1:L:270:ASN:OD1	1:L:272:PRO:HD2	1.88	0.72
3:D:626:PRO:O	3:D:629:ILE:HG22	1.90	0.72
1:E:219:MET:HG2	1:E:365:ARG:NH2	2.04	0.72
1:I:570:ALA:HB1	1:I:616:ASN:CB	2.19	0.72
1:E:327:GLN:HE22	1:E:331:LEU:HD11	1.55	0.72
1:G:479:ILE:HD11	1:G:526:LEU:CB	2.19	0.72
1:H:26:LEU:HA	1:H:82:ILE:CD1	2.17	0.72
1:I:512:LYS:HE3	1:I:617:VAL:O	1.87	0.72
1:I:764:GLN:HG3	1:J:742:PHE:HA	1.71	0.72
1:K:426:LYS:HD3	1:K:427:MET:H	1.54	0.72
3:D:710:GLU:OE2	3:D:713:ARG:NH2	2.22	0.72
1:G:469:VAL:HG22	1:G:540:ILE:HG12	1.71	0.72
1:J:426:LYS:HD3	1:J:427:MET:H	1.54	0.72
1:L:118:PRO:HB2	1:L:188:PRO:CA	2.18	0.72
1:E:732:ARG:HG3	1:E:735:HIS:ND1	2.05	0.72
1:I:26:LEU:HD21	1:I:59:LEU:HD22	1.70	0.72
1:J:26:LEU:HD21	1:J:59:LEU:HD22	1.70	0.72
1:L:423:ILE:HG22	1:L:428:ASP:OD1	1.90	0.72
1:E:626:PRO:O	1:E:629:ILE:HG22	1.90	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:774:PRO:HD3	1:F:674:PHE:CD2	2.24	0.72
1:F:216:ILE:HD11	1:F:243:LEU:HD21	1.70	0.72
1:A:219:MET:HG2	1:A:365:ARG:NH2	2.04	0.71
1:A:556:GLU:OE2	1:A:599:ARG:NE	2.17	0.71
2:C:327:GLN:HE22	2:C:331:LEU:HD11	1.55	0.71
2:C:613:THR:HG21	3:D:464:LEU:HD21	1.72	0.71
2:C:626:PRO:O	2:C:629:ILE:HG22	1.90	0.71
1:E:708:ARG:HD3	1:E:712:GLU:OE2	1.89	0.71
1:G:270:ASN:HB3	1:G:273:GLU:CB	2.19	0.71
1:I:502:LYS:HZ2	1:J:706:GLU:HG3	1.55	0.71
1:H:321:GLU:O	1:H:325:VAL:HG23	1.89	0.71
1:J:423:ILE:HG22	1:J:428:ASP:OD1	1.90	0.71
1:B:219:MET:HG2	1:B:365:ARG:NH2	2.04	0.71
3:D:495:TYR:CE1	1:E:703:ILE:HG21	2.26	0.71
1:I:479:ILE:HD11	1:I:526:LEU:CB	2.19	0.71
1:L:270:ASN:HB3	1:L:273:GLU:CB	2.20	0.71
1:A:216:ILE:HD11	1:A:243:LEU:HD21	1.70	0.71
1:B:495:TYR:CE1	2:C:703:ILE:HG21	2.26	0.71
3:D:327:GLN:HE22	3:D:331:LEU:HD11	1.55	0.71
3:D:732:ARG:HG3	3:D:735:HIS:ND1	2.05	0.71
1:H:508:MET:HE3	1:I:696:LYS:HB2	1.72	0.71
1:K:118:PRO:HB2	1:K:188:PRO:CA	2.18	0.71
1:F:456:LEU:O	1:F:459:SER:OG	2.08	0.71
1:G:423:ILE:HG22	1:G:428:ASP:OD1	1.90	0.71
1:H:423:ILE:HG22	1:H:428:ASP:OD1	1.90	0.71
1:H:764:GLN:HG3	1:I:742:PHE:HA	1.73	0.71
1:I:469:VAL:HG22	1:I:540:ILE:HG12	1.71	0.71
1:H:26:LEU:HD21	1:H:59:LEU:HD22	1.70	0.71
1:I:423:ILE:HG22	1:I:428:ASP:OD1	1.90	0.71
2:C:312:LYS:CD	2:C:316:THR:HA	2.18	0.71
3:D:613:THR:HG21	1:E:464:LEU:HD11	1.71	0.71
1:F:327:GLN:HE22	1:F:331:LEU:HD11	1.55	0.71
1:H:469:VAL:HG22	1:H:540:ILE:HG12	1.71	0.71
1:F:732:ARG:HG3	1:F:735:HIS:ND1	2.05	0.71
1:G:157:GLY:H	1:G:389:LYS:HZ3	1.37	0.71
1:I:317:HIS:CE1	1:J:318:GLY:HA2	2.26	0.71
1:K:25:ARG:O	1:K:25:ARG:HG3	1.91	0.71
1:K:461:PRO:HA	1:K:462:SER:CB	2.01	0.71
1:L:157:GLY:H	1:L:389:LYS:HZ3	1.38	0.71
3:D:312:LYS:CD	3:D:316:THR:HA	2.19	0.71
1:E:312:LYS:CD	1:E:316:THR:HA	2.18	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:456:LEU:O	1:E:459:SER:OG	2.08	0.71
1:B:456:LEU:O	1:B:459:SER:OG	2.08	0.71
1:B:626:PRO:O	1:B:629:ILE:HG22	1.90	0.71
1:B:774:PRO:HD3	2:C:674:PHE:CD2	2.25	0.71
3:D:774:PRO:HD3	1:E:674:PHE:CD2	2.25	0.71
1:F:480:GLY:O	1:F:652:SER:HA	1.91	0.71
1:K:423:ILE:HG22	1:K:428:ASP:OD1	1.90	0.71
1:E:480:GLY:O	1:E:652:SER:HA	1.91	0.70
1:L:469:VAL:HG22	1:L:540:ILE:HG12	1.71	0.70
1:A:678:MET:HA	1:A:678:MET:CE	2.21	0.70
1:A:216:ILE:HD11	1:A:243:LEU:CD2	2.22	0.70
1:A:626:PRO:O	1:A:629:ILE:HG22	1.90	0.70
1:B:216:ILE:HD11	1:B:243:LEU:CD2	2.22	0.70
3:D:480:GLY:O	3:D:652:SER:HA	1.91	0.70
1:F:626:PRO:O	1:F:629:ILE:HG22	1.90	0.70
1:F:678:MET:HA	1:F:678:MET:CE	2.21	0.70
1:K:469:VAL:HG22	1:K:540:ILE:HG12	1.71	0.70
1:A:613:THR:HG21	1:B:464:LEU:HD21	1.73	0.70
3:D:310:ALA:HA	3:D:325:VAL:HG22	1.74	0.70
1:F:216:ILE:HD11	1:F:243:LEU:CD2	2.22	0.70
1:F:760:GLN:HB3	1:I:760:GLN:HE22	1.55	0.70
1:G:701:GLU:OE1	1:G:735:HIS:NE2	2.25	0.70
1:H:479:ILE:HD11	1:H:526:LEU:CB	2.19	0.70
1:H:702:SER:HB2	1:H:728:VAL:CG1	2.21	0.70
1:I:233:ILE:CD1	1:J:158:MET:HB2	2.15	0.70
1:I:702:SER:HB2	1:I:728:VAL:CG1	2.21	0.70
1:J:213:LEU:HG	1:J:217:LYS:HE2	1.74	0.70
1:J:697:LEU:CD1	1:J:738:GLU:HB3	2.22	0.70
1:J:702:SER:HB2	1:J:728:VAL:CG1	2.21	0.70
1:K:191:ARG:NH2	1:K:192:GLU:OE2	2.24	0.70
1:K:213:LEU:HG	1:K:217:LYS:HE2	1.74	0.70
1:L:191:ARG:NH2	1:L:192:GLU:OE2	2.24	0.70
1:A:327:GLN:HE22	1:A:331:LEU:HD11	1.55	0.70
1:A:732:ARG:HG3	1:A:735:HIS:ND1	2.05	0.70
1:B:732:ARG:HG3	1:B:735:HIS:ND1	2.05	0.70
3:D:360:PHE:HZ	1:E:462:SER:HG	1.40	0.70
1:E:678:MET:HA	1:E:678:MET:CE	2.22	0.70
1:G:191:ARG:NH2	1:G:192:GLU:OE2	2.24	0.70
1:G:702:SER:HB2	1:G:728:VAL:CG1	2.21	0.70
1:H:701:GLU:OE1	1:H:735:HIS:NE2	2.25	0.70
1:J:469:VAL:HG22	1:J:540:ILE:HG12	1.71	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:94:VAL:HG11	1:K:100:ILE:CG2	2.22	0.70
2:C:678:MET:HA	2:C:678:MET:CE	2.21	0.70
1:E:310:ALA:HA	1:E:325:VAL:HG22	1.74	0.70
1:H:191:ARG:NH2	1:H:192:GLU:OE2	2.24	0.70
1:H:517:TYR:HB2	1:H:626:PRO:HG3	1.74	0.70
1:I:191:ARG:NH2	1:I:192:GLU:OE2	2.24	0.70
1:L:84:MET:HE2	1:L:88:VAL:HG23	1.73	0.70
1:A:456:LEU:O	1:A:459:SER:OG	2.08	0.70
1:B:480:GLY:O	1:B:652:SER:HA	1.91	0.70
1:B:678:MET:CE	1:B:678:MET:HA	2.22	0.70
2:C:456:LEU:O	2:C:459:SER:OG	2.08	0.70
2:C:480:GLY:O	2:C:652:SER:HA	1.91	0.70
2:C:732:ARG:HG3	2:C:735:HIS:ND1	2.05	0.70
3:D:456:LEU:O	3:D:459:SER:OG	2.08	0.70
1:E:407:VAL:H	1:E:410:ASP:HB2	1.57	0.70
1:F:407:VAL:H	1:F:410:ASP:HB2	1.57	0.70
1:H:25:ARG:HG3	1:H:25:ARG:O	1.91	0.70
1:I:84:MET:HE2	1:I:88:VAL:HG23	1.72	0.70
1:I:213:LEU:HG	1:I:217:LYS:HE2	1.74	0.70
1:I:329:LEU:CD2	1:I:357:LEU:HD22	2.22	0.70
1:I:697:LEU:CD1	1:I:738:GLU:HB3	2.22	0.70
1:K:701:GLU:OE1	1:K:735:HIS:NE2	2.25	0.70
1:G:206:ILE:HD11	1:G:253:LEU:O	1.92	0.70
1:I:517:TYR:HB2	1:I:626:PRO:HG3	1.74	0.70
1:L:94:VAL:HG11	1:L:100:ILE:CG2	2.22	0.70
1:B:310:ALA:HA	1:B:325:VAL:HG22	1.74	0.70
2:C:216:ILE:HD11	2:C:243:LEU:CD2	2.22	0.70
2:C:235:VAL:HG11	3:D:420:LEU:HD21	1.73	0.70
3:D:771:PHE:CE1	1:E:678:MET:HG3	2.25	0.70
1:E:216:ILE:HD11	1:E:243:LEU:CD2	2.21	0.70
1:K:270:ASN:HB3	1:K:273:GLU:CB	2.20	0.70
1:A:407:VAL:H	1:A:410:ASP:HB2	1.57	0.69
3:D:407:VAL:H	3:D:410:ASP:HB2	1.57	0.69
1:F:310:ALA:HA	1:F:325:VAL:HG22	1.74	0.69
1:H:508:MET:CE	1:I:696:LYS:HB2	2.21	0.69
1:L:213:LEU:HG	1:L:217:LYS:HE2	1.74	0.69
1:G:693:ARG:HD3	1:G:742:PHE:CD1	2.27	0.69
1:H:213:LEU:HG	1:H:217:LYS:HE2	1.74	0.69
1:H:502:LYS:NZ	1:I:703:ILE:HA	2.07	0.69
1:H:697:LEU:CD1	1:H:738:GLU:HB3	2.22	0.69
1:E:771:PHE:HE1	1:F:678:MET:HG3	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:206:ILE:HD11	1:J:253:LEU:O	1.92	0.69
1:A:613:THR:HG21	1:B:464:LEU:HD11	1.74	0.69
1:F:416:SER:O	1:F:420:LEU:HD23	1.93	0.69
1:G:371:ILE:HD11	1:G:466:GLU:CB	2.19	0.69
1:G:773:PHE:HE2	1:H:736:PHE:HB3	1.57	0.69
1:I:206:ILE:HD11	1:I:253:LEU:O	1.92	0.69
1:J:25:ARG:HG3	1:J:25:ARG:O	1.91	0.69
1:J:191:ARG:NH2	1:J:192:GLU:OE2	2.24	0.69
1:J:519:PRO:HG2	1:J:522:CYS:SG	2.33	0.69
1:J:701:GLU:OE1	1:J:735:HIS:NE2	2.24	0.69
1:A:310:ALA:HA	1:A:325:VAL:HG22	1.74	0.69
1:A:480:GLY:O	1:A:652:SER:HA	1.91	0.69
1:A:760:GLN:HB3	1:H:760:GLN:HE22	1.57	0.69
1:G:213:LEU:HG	1:G:217:LYS:HE2	1.74	0.69
1:H:519:PRO:HG2	1:H:522:CYS:SG	2.33	0.69
1:K:26:LEU:CD2	1:K:59:LEU:HD22	2.22	0.69
1:L:701:GLU:OE1	1:L:735:HIS:NE2	2.24	0.69
1:G:25:ARG:HG3	1:G:25:ARG:O	1.91	0.69
1:G:43:GLN:OE1	1:G:75:ASP:HA	1.92	0.69
1:G:517:TYR:HB2	1:G:626:PRO:HG3	1.74	0.69
1:J:84:MET:HE2	1:J:88:VAL:HG23	1.73	0.69
1:K:519:PRO:HG2	1:K:522:CYS:SG	2.33	0.69
1:L:43:GLN:OE1	1:L:75:ASP:HA	1.93	0.69
2:C:407:VAL:H	2:C:410:ASP:HB2	1.57	0.69
2:C:732:ARG:HD3	2:C:735:HIS:HE1	1.57	0.69
1:F:752:ILE:HG22	1:I:766:ARG:HH21	1.56	0.69
1:J:119:ILE:HG22	1:J:162:GLU:O	1.93	0.69
1:L:26:LEU:CD2	1:L:59:LEU:HD22	2.22	0.69
1:L:519:PRO:HG2	1:L:522:CYS:SG	2.33	0.69
1:L:702:SER:HB2	1:L:728:VAL:CG1	2.21	0.69
1:B:403:THR:HG23	1:B:406:HIS:ND1	2.08	0.69
1:B:407:VAL:H	1:B:410:ASP:HB2	1.57	0.69
3:D:216:ILE:HD11	3:D:243:LEU:CD2	2.21	0.69
3:D:678:MET:HA	3:D:678:MET:CE	2.22	0.69
3:D:732:ARG:HD3	3:D:735:HIS:HE1	1.57	0.69
1:E:403:THR:HG23	1:E:406:HIS:ND1	2.08	0.69
1:E:416:SER:O	1:E:420:LEU:HD23	1.93	0.69
1:G:119:ILE:HG22	1:G:162:GLU:O	1.93	0.69
1:H:119:ILE:HG22	1:H:162:GLU:O	1.93	0.69
1:H:502:LYS:NZ	1:I:706:GLU:HG3	2.08	0.69
1:I:119:ILE:HG22	1:I:162:GLU:O	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:270:ASN:HB3	1:I:273:GLU:CB	2.20	0.69
1:J:243:LEU:HD11	1:J:344:MET:CE	2.23	0.69
1:J:517:TYR:HB2	1:J:626:PRO:HG3	1.74	0.69
1:K:43:GLN:OE1	1:K:75:ASP:HA	1.93	0.69
1:K:390:LEU:HG	1:K:394:VAL:CG2	2.23	0.69
1:K:702:SER:HB2	1:K:728:VAL:CG1	2.21	0.69
1:K:764:GLN:CG	1:L:742:PHE:HA	2.22	0.69
1:L:119:ILE:HG22	1:L:162:GLU:O	1.93	0.69
1:I:243:LEU:HD11	1:I:344:MET:HE1	1.75	0.69
1:J:26:LEU:CD2	1:J:59:LEU:HD22	2.22	0.69
1:K:329:LEU:CD2	1:K:357:LEU:HD22	2.22	0.69
1:L:25:ARG:HG3	1:L:25:ARG:O	1.91	0.69
1:B:228:ALA:HB1	2:C:435:GLU:O	1.92	0.69
1:F:403:THR:HG23	1:F:406:HIS:ND1	2.08	0.69
1:G:94:VAL:HG11	1:G:100:ILE:CG2	2.22	0.69
1:H:43:GLN:OE1	1:H:75:ASP:HA	1.93	0.69
1:H:206:ILE:HD11	1:H:253:LEU:O	1.92	0.69
1:J:390:LEU:HG	1:J:394:VAL:CG2	2.23	0.69
1:K:206:ILE:HD11	1:K:253:LEU:O	1.92	0.69
1:B:224:LEU:HB2	1:B:262:THR:HG21	1.75	0.68
2:C:403:THR:HG23	2:C:406:HIS:ND1	2.08	0.68
1:I:519:PRO:HG2	1:I:522:CYS:SG	2.33	0.68
1:K:764:GLN:HG3	1:L:741:ARG:O	1.91	0.68
1:L:693:ARG:HD3	1:L:742:PHE:CD1	2.27	0.68
1:B:416:SER:O	1:B:420:LEU:HD23	1.93	0.68
1:B:491:GLU:OE2	2:C:700:ARG:HD3	1.93	0.68
1:B:517:TYR:CZ	1:B:644:TYR:HB2	2.28	0.68
1:B:732:ARG:HD3	1:B:735:HIS:HE1	1.57	0.68
2:C:556:GLU:OE2	2:C:599:ARG:NE	2.16	0.68
3:D:416:SER:O	3:D:420:LEU:HD23	1.93	0.68
1:H:26:LEU:CD2	1:H:59:LEU:HD22	2.22	0.68
1:K:26:LEU:CD2	1:K:100:ILE:HG13	2.23	0.68
1:K:487:ARG:HH22	1:L:700:ARG:NH1	1.90	0.68
1:L:119:ILE:CG2	1:L:162:GLU:HG3	2.24	0.68
1:L:517:TYR:HB2	1:L:626:PRO:HG3	1.74	0.68
1:A:517:TYR:CZ	1:A:644:TYR:HB2	2.28	0.68
1:B:556:GLU:CB	1:B:603:GLN:HG3	2.24	0.68
2:C:224:LEU:HB2	2:C:262:THR:HG21	1.75	0.68
3:D:517:TYR:CZ	3:D:644:TYR:HB2	2.28	0.68
1:G:519:PRO:HG2	1:G:522:CYS:SG	2.33	0.68
1:H:329:LEU:CD2	1:H:357:LEU:HD22	2.22	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:25:ARG:HG3	1:I:25:ARG:O	1.91	0.68
1:I:26:LEU:HD12	1:I:82:ILE:HD13	1.76	0.68
1:K:119:ILE:CG2	1:K:162:GLU:HG3	2.24	0.68
2:C:403:THR:HG21	2:C:411:LEU:CD2	2.24	0.68
2:C:517:TYR:CZ	2:C:644:TYR:HB2	2.28	0.68
1:G:329:LEU:CD2	1:G:357:LEU:HD22	2.22	0.68
1:I:26:LEU:CD2	1:I:59:LEU:HD22	2.22	0.68
1:I:701:GLU:OE1	1:I:735:HIS:NE2	2.24	0.68
1:J:26:LEU:HD12	1:J:82:ILE:HD13	1.76	0.68
1:J:43:GLN:OE1	1:J:75:ASP:HA	1.93	0.68
1:L:329:LEU:CD2	1:L:357:LEU:HD22	2.22	0.68
1:A:403:THR:HG23	1:A:406:HIS:ND1	2.08	0.68
1:A:732:ARG:HD3	1:A:735:HIS:HE1	1.57	0.68
1:B:216:ILE:O	1:B:220:VAL:HG22	1.94	0.68
2:C:310:ALA:HA	2:C:325:VAL:HG22	1.74	0.68
2:C:556:GLU:CB	2:C:603:GLN:HG3	2.24	0.68
1:E:556:GLU:CB	1:E:603:GLN:HG3	2.24	0.68
1:E:760:GLN:HB3	1:J:760:GLN:HE22	1.58	0.68
1:G:84:MET:HE2	1:G:88:VAL:HG23	1.75	0.68
1:G:243:LEU:HD11	1:G:344:MET:CE	2.23	0.68
1:G:390:LEU:HG	1:G:394:VAL:CG2	2.23	0.68
1:H:94:VAL:HG11	1:H:100:ILE:CG2	2.22	0.68
1:H:136:LYS:HD3	1:H:139:PHE:HE2	1.59	0.68
1:K:119:ILE:HG22	1:K:162:GLU:O	1.93	0.68
1:K:517:TYR:HB2	1:K:626:PRO:HG3	1.74	0.68
1:A:216:ILE:O	1:A:220:VAL:HG22	1.94	0.68
3:D:403:THR:HG21	3:D:411:LEU:CD2	2.24	0.68
3:D:556:GLU:CB	3:D:603:GLN:HG3	2.24	0.68
1:G:26:LEU:CD2	1:G:59:LEU:HD22	2.22	0.68
1:K:243:LEU:HD11	1:K:344:MET:CE	2.23	0.68
1:B:403:THR:HG21	1:B:411:LEU:CD2	2.24	0.68
1:F:517:TYR:CZ	1:F:644:TYR:HB2	2.28	0.68
1:I:94:VAL:HG11	1:I:100:ILE:CG2	2.22	0.68
1:J:136:LYS:HD3	1:J:139:PHE:HE2	1.59	0.68
1:L:243:LEU:HD11	1:L:344:MET:CE	2.23	0.68
1:A:224:LEU:HB2	1:A:262:THR:HG21	1.76	0.68
1:A:284:SER:HB2	1:A:288:LYS:NZ	2.09	0.68
1:A:556:GLU:CB	1:A:603:GLN:HG3	2.24	0.68
2:C:216:ILE:O	2:C:220:VAL:HG22	1.94	0.68
3:D:510:PRO:HG2	5:D:802:Y6Y:C25	2.24	0.68
1:G:26:LEU:CD2	1:G:100:ILE:HG13	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:270:ASN:HB3	1:H:273:GLU:CB	2.20	0.68
1:K:738:GLU:OE1	1:K:738:GLU:HA	1.94	0.68
2:C:760:GLN:HB3	1:L:760:GLN:HE22	1.59	0.68
1:H:243:LEU:HD11	1:H:344:MET:CE	2.23	0.68
1:I:136:LYS:HD3	1:I:139:PHE:HE2	1.59	0.68
1:K:136:LYS:HD3	1:K:139:PHE:HE2	1.59	0.68
1:L:206:ILE:HD11	1:L:253:LEU:O	1.92	0.68
1:A:416:SER:O	1:A:420:LEU:HD23	1.93	0.68
1:B:284:SER:HB2	1:B:288:LYS:NZ	2.09	0.68
2:C:510:PRO:HG2	5:C:802:Y6Y:C25	2.24	0.68
3:D:358:ARG:HG2	3:D:358:ARG:HH11	1.59	0.68
3:D:403:THR:HG23	3:D:406:HIS:ND1	2.08	0.68
1:E:682:PHE:HE1	1:E:745:ARG:HG3	1.59	0.68
1:H:26:LEU:HD12	1:H:82:ILE:HD13	1.76	0.68
1:H:390:LEU:HG	1:H:394:VAL:CG2	2.23	0.68
1:I:43:GLN:OE1	1:I:75:ASP:HA	1.93	0.68
1:J:323:ARG:HH21	1:K:278:LEU:HA	1.59	0.68
1:L:697:LEU:CD1	1:L:738:GLU:HB3	2.22	0.68
1:E:358:ARG:HG2	1:E:358:ARG:HH11	1.59	0.67
1:E:403:THR:HG21	1:E:411:LEU:CD2	2.24	0.67
1:F:216:ILE:O	1:F:220:VAL:HG22	1.94	0.67
1:F:224:LEU:HB2	1:F:262:THR:HG21	1.75	0.67
1:F:284:SER:HB2	1:F:288:LYS:NZ	2.09	0.67
1:G:136:LYS:HD3	1:G:139:PHE:HE2	1.59	0.67
1:I:243:LEU:HD11	1:I:344:MET:CE	2.23	0.67
1:J:738:GLU:OE1	1:J:738:GLU:HA	1.94	0.67
1:L:390:LEU:HG	1:L:394:VAL:CG2	2.23	0.67
1:A:403:THR:HG21	1:A:411:LEU:CD2	2.24	0.67
1:A:510:PRO:HG2	5:A:802:Y6Y:C25	2.24	0.67
1:A:601:ILE:HG23	1:A:633:ILE:HD11	1.76	0.67
1:B:250:GLY:HA2	4:B:801:ADP:O1A	1.94	0.67
2:C:416:SER:O	2:C:420:LEU:HD23	1.93	0.67
1:E:517:TYR:CZ	1:E:644:TYR:HB2	2.28	0.67
1:E:732:ARG:HD3	1:E:735:HIS:HE1	1.57	0.67
1:F:682:PHE:HE1	1:F:745:ARG:HG3	1.60	0.67
1:J:275:MET:HE1	1:J:321:GLU:OE1	1.94	0.67
2:C:250:GLY:HA2	4:C:801:ADP:O1A	1.94	0.67
2:C:358:ARG:HG2	2:C:358:ARG:HH11	1.59	0.67
3:D:216:ILE:O	3:D:220:VAL:HG22	1.94	0.67
3:D:682:PHE:HE1	3:D:745:ARG:HG3	1.60	0.67
1:E:774:PRO:HD3	1:F:674:PHE:CE2	2.30	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:693:ARG:HD3	1:I:742:PHE:CD1	2.27	0.67
1:K:693:ARG:HD3	1:K:742:PHE:CD1	2.27	0.67
1:B:510:PRO:HG2	5:B:802:Y6Y:C25	2.24	0.67
3:D:224:LEU:HB2	3:D:262:THR:HG21	1.75	0.67
3:D:250:GLY:HA2	4:D:801:ADP:O1A	1.94	0.67
1:E:216:ILE:O	1:E:220:VAL:HG22	1.94	0.67
1:F:556:GLU:CB	1:F:603:GLN:HG3	2.24	0.67
1:F:732:ARG:HD3	1:F:735:HIS:HE1	1.57	0.67
1:J:479:ILE:HD11	1:J:526:LEU:CB	2.19	0.67
1:J:693:ARG:HD3	1:J:742:PHE:CD1	2.27	0.67
1:L:371:ILE:HD11	1:L:466:GLU:CB	2.18	0.67
1:A:358:ARG:HG2	1:A:358:ARG:HH11	1.59	0.67
1:F:250:GLY:HA2	4:F:801:ADP:O1A	1.94	0.67
1:H:119:ILE:CG2	1:H:162:GLU:HG3	2.24	0.67
1:I:390:LEU:HG	1:I:394:VAL:CG2	2.23	0.67
1:J:119:ILE:CG2	1:J:162:GLU:HG3	2.24	0.67
1:K:26:LEU:HD12	1:K:82:ILE:HD13	1.76	0.67
1:A:682:PHE:HE1	1:A:745:ARG:HG3	1.60	0.67
2:C:682:PHE:HE1	2:C:745:ARG:HG3	1.60	0.67
3:D:774:PRO:HD3	1:E:674:PHE:CE2	2.29	0.67
1:F:358:ARG:HG2	1:F:358:ARG:HH11	1.59	0.67
1:F:403:THR:HG21	1:F:411:LEU:CD2	2.24	0.67
1:F:601:ILE:HG23	1:F:633:ILE:HD11	1.76	0.67
1:G:119:ILE:CG2	1:G:162:GLU:HG3	2.24	0.67
1:J:26:LEU:CD2	1:J:100:ILE:HG13	2.24	0.67
1:J:478:ASP:OD1	1:J:662:ARG:NH2	2.28	0.67
1:L:26:LEU:CD2	1:L:100:ILE:HG13	2.23	0.67
2:C:753:ARG:NH1	1:L:761:THR:HA	2.10	0.67
1:E:250:GLY:HA2	4:E:801:ADP:O1A	1.94	0.67
1:H:58:LEU:HD13	1:H:105:CYS:HB2	1.77	0.67
1:H:502:LYS:HZ3	1:I:703:ILE:CA	2.06	0.67
1:H:738:GLU:OE1	1:H:738:GLU:HA	1.94	0.67
1:J:94:VAL:HG11	1:J:100:ILE:CG2	2.22	0.67
1:A:753:ARG:NH1	1:H:761:THR:HA	2.09	0.67
1:E:734:ASP:OD1	1:E:735:HIS:N	2.28	0.67
1:H:58:LEU:HD13	1:H:105:CYS:SG	2.35	0.67
1:A:440:GLU:OE1	1:A:440:GLU:N	2.28	0.67
1:A:696:LYS:HB2	1:F:508:MET:HE3	1.77	0.67
2:C:284:SER:HB2	2:C:288:LYS:NZ	2.09	0.67
1:E:284:SER:HB2	1:E:288:LYS:NZ	2.09	0.67
1:F:605:LEU:CD2	1:F:633:ILE:HD13	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:136:LYS:HD3	1:L:139:PHE:HE2	1.59	0.67
1:L:275:MET:HE1	1:L:321:GLU:OE1	1.95	0.67
1:E:224:LEU:HB2	1:E:262:THR:HG21	1.75	0.67
1:E:607:GLU:OE1	1:F:465:ARG:NH2	2.28	0.67
1:G:697:LEU:CD1	1:G:738:GLU:HB3	2.22	0.67
1:I:26:LEU:CD2	1:I:100:ILE:HG13	2.23	0.67
1:I:58:LEU:HD13	1:I:105:CYS:HB2	1.77	0.67
1:J:58:LEU:HD13	1:J:105:CYS:SG	2.35	0.67
1:A:250:GLY:HA2	4:A:801:ADP:O1A	1.94	0.66
1:B:601:ILE:HG23	1:B:633:ILE:HD11	1.77	0.66
1:E:510:PRO:HG2	5:E:802:Y6Y:C25	2.24	0.66
1:E:613:THR:HG21	1:F:464:LEU:HD11	1.77	0.66
1:F:510:PRO:HG2	5:F:802:Y6Y:C25	2.24	0.66
1:G:26:LEU:HD12	1:G:82:ILE:HD13	1.75	0.66
1:G:738:GLU:OE1	1:G:738:GLU:HA	1.94	0.66
1:H:26:LEU:CD2	1:H:100:ILE:HG13	2.24	0.66
1:I:58:LEU:HD13	1:I:105:CYS:SG	2.35	0.66
1:I:119:ILE:CG2	1:I:162:GLU:HG3	2.24	0.66
1:J:224:LEU:HD22	1:J:298:PRO:HB2	1.77	0.66
1:L:738:GLU:OE1	1:L:738:GLU:HA	1.94	0.66
1:B:682:PHE:HE1	1:B:745:ARG:HG3	1.60	0.66
3:D:284:SER:HB2	3:D:288:LYS:NZ	2.09	0.66
3:D:440:GLU:OE1	3:D:440:GLU:N	2.28	0.66
1:G:478:ASP:OD1	1:G:662:ARG:NH2	2.28	0.66
1:I:502:LYS:HZ3	1:J:703:ILE:CA	2.08	0.66
1:K:224:LEU:HD22	1:K:298:PRO:HB2	1.77	0.66
1:K:238:PRO:HB3	1:K:365:ARG:HE	1.61	0.66
1:K:478:ASP:OD1	1:K:662:ARG:NH2	2.28	0.66
1:B:396:LEU:HA	1:B:399:VAL:CG1	2.26	0.66
1:H:478:ASP:OD1	1:H:662:ARG:NH2	2.28	0.66
1:L:238:PRO:HB3	1:L:365:ARG:HE	1.60	0.66
3:D:519:PRO:HG2	3:D:522:CYS:SG	2.35	0.66
1:E:396:LEU:HA	1:E:399:VAL:CG1	2.26	0.66
1:E:601:ILE:HG23	1:E:633:ILE:HD11	1.77	0.66
1:G:323:ARG:HH21	1:H:278:LEU:HA	1.61	0.66
1:H:403:THR:HG22	1:H:403:THR:O	1.96	0.66
1:I:738:GLU:HA	1:I:738:GLU:OE1	1.94	0.66
1:K:406:HIS:CE1	1:K:459:SER:HB2	2.31	0.66
1:L:58:LEU:HD13	1:L:105:CYS:SG	2.35	0.66
1:B:358:ARG:HG2	1:B:358:ARG:HH11	1.59	0.66
1:E:519:PRO:HG2	1:E:522:CYS:SG	2.35	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:396:LEU:HA	1:F:399:VAL:CG1	2.26	0.66
1:L:26:LEU:HD12	1:L:82:ILE:HD13	1.76	0.66
2:C:396:LEU:HA	2:C:399:VAL:CG1	2.26	0.66
1:E:605:LEU:CD2	1:E:633:ILE:HD13	2.24	0.66
1:H:491:GLU:OE1	1:I:700:ARG:HD3	1.96	0.66
1:I:601:ILE:CG2	1:I:633:ILE:HD11	2.26	0.66
1:K:371:ILE:HD11	1:K:466:GLU:CB	2.19	0.66
1:K:697:LEU:CD1	1:K:738:GLU:HB3	2.22	0.66
1:L:406:HIS:CE1	1:L:459:SER:HB2	2.31	0.66
2:C:502:LYS:HD2	3:D:703:ILE:HG12	1.77	0.66
1:G:58:LEU:HD13	1:G:105:CYS:SG	2.35	0.66
1:G:403:THR:O	1:G:403:THR:HG22	1.96	0.66
1:I:478:ASP:OD1	1:I:662:ARG:NH2	2.28	0.66
1:I:598:ASP:OD2	1:I:601:ILE:HG12	1.96	0.66
1:K:58:LEU:HD13	1:K:105:CYS:SG	2.35	0.66
1:K:598:ASP:OD2	1:K:601:ILE:HG12	1.96	0.66
1:B:519:PRO:HG2	1:B:522:CYS:SG	2.35	0.66
1:B:734:ASP:OD1	1:B:735:HIS:N	2.28	0.66
1:F:734:ASP:OD1	1:F:735:HIS:N	2.28	0.66
1:G:406:HIS:CE1	1:G:459:SER:HB2	2.31	0.66
1:I:403:THR:O	1:I:403:THR:HG22	1.96	0.66
1:J:270:ASN:HB3	1:J:273:GLU:CB	2.20	0.66
1:J:406:HIS:CE1	1:J:459:SER:HB2	2.31	0.66
1:J:598:ASP:OD2	1:J:601:ILE:HG12	1.96	0.66
1:K:58:LEU:HD13	1:K:105:CYS:HB2	1.77	0.66
1:K:222:LEU:HD21	1:L:424:ARG:HG2	1.78	0.66
3:D:605:LEU:CD2	3:D:633:ILE:HD13	2.24	0.66
1:E:373:ASP:O	1:E:377:ARG:N	2.25	0.66
1:F:440:GLU:OE1	1:F:440:GLU:N	2.28	0.66
1:G:269:ILE:HD11	1:G:289:ALA:HB1	1.78	0.66
1:H:51:LEU:HD22	1:H:55:ASP:OD2	1.96	0.66
1:H:243:LEU:HD11	1:H:344:MET:HE1	1.76	0.66
1:I:406:HIS:CE1	1:I:459:SER:HB2	2.31	0.66
1:J:669:ASP:OD2	1:J:733:ARG:HD2	1.96	0.66
1:K:117:LEU:HD12	1:K:166:VAL:HG11	1.78	0.66
1:A:605:LEU:CD2	1:A:633:ILE:HD13	2.24	0.66
2:C:601:ILE:HG23	2:C:633:ILE:HD11	1.77	0.66
1:H:406:HIS:CE1	1:H:459:SER:HB2	2.31	0.66
1:H:601:ILE:CG2	1:H:633:ILE:HD11	2.26	0.66
1:I:27:ILE:CD1	1:I:99:VAL:HG22	2.26	0.66
1:I:669:ASP:OD2	1:I:733:ARG:HD2	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:479:ILE:HD11	1:K:526:LEU:CB	2.19	0.66
1:K:601:ILE:CG2	1:K:633:ILE:HD11	2.26	0.66
3:D:601:ILE:HG23	3:D:633:ILE:HD11	1.76	0.65
3:D:613:THR:HG21	1:E:464:LEU:HD21	1.78	0.65
1:G:275:MET:HE1	1:G:321:GLU:OE1	1.96	0.65
1:G:706:GLU:HG3	1:L:502:LYS:HZ2	1.60	0.65
1:H:27:ILE:CD1	1:H:99:VAL:HG22	2.26	0.65
1:H:598:ASP:OD2	1:H:601:ILE:HG12	1.96	0.65
1:J:117:LEU:HD12	1:J:166:VAL:HG11	1.78	0.65
1:K:136:LYS:HA	1:K:139:PHE:CE2	2.31	0.65
1:L:58:LEU:HD13	1:L:105:CYS:HB2	1.77	0.65
1:B:774:PRO:HD3	2:C:674:PHE:CE2	2.31	0.65
2:C:219:MET:CE	2:C:365:ARG:HH21	2.10	0.65
2:C:519:PRO:HG2	2:C:522:CYS:SG	2.35	0.65
2:C:734:ASP:OD1	2:C:735:HIS:N	2.28	0.65
3:D:734:ASP:OD1	3:D:735:HIS:N	2.28	0.65
1:G:84:MET:CE	1:G:88:VAL:HG23	2.27	0.65
1:G:598:ASP:OD2	1:G:601:ILE:HG12	1.96	0.65
1:H:693:ARG:HD3	1:H:742:PHE:CD1	2.27	0.65
1:I:502:LYS:NZ	1:J:703:ILE:HA	2.11	0.65
1:J:426:LYS:HD3	1:J:427:MET:N	2.11	0.65
1:L:601:ILE:CG2	1:L:633:ILE:HD11	2.26	0.65
1:A:734:ASP:OD1	1:A:735:HIS:N	2.28	0.65
2:C:316:THR:CG2	2:C:322:ARG:HG2	2.27	0.65
2:C:508:MET:HE1	3:D:696:LYS:HB2	1.76	0.65
1:H:93:ARG:NH2	1:H:194:GLU:OE1	2.28	0.65
1:H:136:LYS:HA	1:H:139:PHE:CE2	2.31	0.65
1:H:269:ILE:HD11	1:H:289:ALA:HB1	1.78	0.65
1:H:669:ASP:OD2	1:H:733:ARG:HD2	1.96	0.65
1:K:84:MET:CE	1:K:88:VAL:HG23	2.27	0.65
1:L:117:LEU:HD12	1:L:166:VAL:HG11	1.78	0.65
1:B:316:THR:CG2	1:B:322:ARG:HG2	2.27	0.65
1:F:519:PRO:HG2	1:F:522:CYS:SG	2.35	0.65
1:F:753:ARG:NH1	1:I:761:THR:HA	2.12	0.65
1:G:601:ILE:CG2	1:G:633:ILE:HD11	2.26	0.65
1:I:51:LEU:HD22	1:I:55:ASP:OD2	1.96	0.65
1:I:224:LEU:HD22	1:I:298:PRO:HB2	1.77	0.65
1:J:27:ILE:CD1	1:J:99:VAL:HG22	2.26	0.65
1:J:371:ILE:HD11	1:J:466:GLU:CB	2.19	0.65
1:J:502:LYS:HZ3	1:K:703:ILE:HA	1.61	0.65
1:L:84:MET:CE	1:L:88:VAL:HG23	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:136:LYS:HA	1:L:139:PHE:CE2	2.31	0.65
1:A:519:PRO:HG2	1:A:522:CYS:SG	2.35	0.65
2:C:349:ARG:CG	2:C:350:PRO:HD2	2.27	0.65
3:D:201:VAL:HA	3:D:205:ASP:OD2	1.97	0.65
1:E:734:ASP:O	1:E:738:GLU:HG3	1.97	0.65
1:G:58:LEU:HD13	1:G:105:CYS:HB2	1.77	0.65
1:H:153:LEU:CD2	1:H:198:LEU:HD22	2.23	0.65
1:I:146:ILE:CG2	1:I:165:VAL:HG21	2.27	0.65
1:J:329:LEU:CD2	1:J:357:LEU:HD22	2.22	0.65
1:A:349:ARG:CG	1:A:350:PRO:HD2	2.27	0.65
1:A:396:LEU:HA	1:A:399:VAL:CG1	2.26	0.65
1:B:349:ARG:CG	1:B:350:PRO:HD2	2.27	0.65
2:C:201:VAL:HA	2:C:205:ASP:OD2	1.97	0.65
2:C:734:ASP:O	2:C:738:GLU:HG3	1.97	0.65
2:C:752:ILE:HG22	1:L:766:ARG:HH21	1.62	0.65
3:D:219:MET:CE	3:D:365:ARG:HH21	2.10	0.65
1:E:491:GLU:OE2	1:F:700:ARG:HD3	1.95	0.65
1:G:146:ILE:CG2	1:G:165:VAL:HG21	2.27	0.65
1:I:426:LYS:HD3	1:I:427:MET:N	2.11	0.65
1:L:51:LEU:HD22	1:L:55:ASP:OD2	1.96	0.65
1:L:403:THR:O	1:L:403:THR:HG22	1.96	0.65
1:L:478:ASP:OD1	1:L:662:ARG:NH2	2.28	0.65
1:B:219:MET:CE	1:B:365:ARG:HH21	2.10	0.65
2:C:774:PRO:HD3	3:D:674:PHE:CE2	2.31	0.65
3:D:396:LEU:HA	3:D:399:VAL:CG1	2.26	0.65
1:G:153:LEU:CD2	1:G:198:LEU:HD22	2.23	0.65
1:G:224:LEU:HD22	1:G:298:PRO:HB2	1.77	0.65
1:G:426:LYS:HD3	1:G:427:MET:N	2.11	0.65
1:J:51:LEU:HD22	1:J:55:ASP:OD2	1.97	0.65
1:J:763:GLN:O	1:K:744:ARG:NH1	2.30	0.65
1:K:219:MET:CE	1:K:365:ARG:HH11	2.10	0.65
1:K:669:ASP:OD2	1:K:733:ARG:HD2	1.96	0.65
1:L:224:LEU:HD22	1:L:298:PRO:HB2	1.77	0.65
1:L:426:LYS:HD3	1:L:427:MET:N	2.11	0.65
1:L:598:ASP:OD2	1:L:601:ILE:HG12	1.96	0.65
1:B:201:VAL:HA	1:B:205:ASP:OD2	1.97	0.65
3:D:373:ASP:O	3:D:377:ARG:N	2.25	0.65
1:F:201:VAL:HA	1:F:205:ASP:OD2	1.97	0.65
1:G:136:LYS:HA	1:G:139:PHE:CE2	2.31	0.65
1:J:136:LYS:HA	1:J:139:PHE:CE2	2.32	0.65
1:B:734:ASP:O	1:B:738:GLU:HG3	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:556:GLU:HB3	2:C:603:GLN:HG3	1.79	0.65
2:C:605:LEU:CD2	2:C:633:ILE:HD13	2.24	0.65
1:E:201:VAL:HA	1:E:205:ASP:OD2	1.97	0.65
1:E:613:THR:HG21	1:F:464:LEU:HD21	1.79	0.65
1:G:51:LEU:HD22	1:G:55:ASP:OD2	1.96	0.65
1:H:224:LEU:HD22	1:H:298:PRO:HB2	1.77	0.65
1:J:58:LEU:HD13	1:J:105:CYS:HB2	1.77	0.65
1:J:601:ILE:CG2	1:J:633:ILE:HD11	2.26	0.65
1:K:136:LYS:HD3	1:K:139:PHE:CE2	2.32	0.65
1:L:219:MET:CE	1:L:365:ARG:HH11	2.10	0.65
3:D:556:GLU:HB3	3:D:603:GLN:HG3	1.79	0.65
1:E:316:THR:CG2	1:E:322:ARG:HG2	2.27	0.65
1:G:528:ALA:O	1:G:531:ILE:HG22	1.97	0.65
1:H:84:MET:CE	1:H:88:VAL:HG23	2.27	0.65
1:H:426:LYS:HD3	1:H:427:MET:N	2.11	0.65
1:I:228:ALA:HB1	1:J:435:GLU:HA	1.79	0.65
1:J:403:THR:O	1:J:403:THR:HG22	1.96	0.65
1:K:426:LYS:HD3	1:K:427:MET:N	2.11	0.65
1:L:269:ILE:HD11	1:L:289:ALA:HB1	1.78	0.65
1:F:316:THR:CG2	1:F:322:ARG:HG2	2.27	0.64
1:G:136:LYS:HD3	1:G:139:PHE:CE2	2.32	0.64
1:G:658:LYS:O	1:G:662:ARG:HG3	1.97	0.64
1:H:230:PHE:CZ	1:I:420:LEU:HD11	2.32	0.64
1:H:275:MET:HE1	1:H:321:GLU:OE1	1.96	0.64
1:J:84:MET:CE	1:J:88:VAL:HG23	2.27	0.64
1:K:219:MET:HE1	1:K:365:ARG:HD3	1.78	0.64
1:L:669:ASP:OD2	1:L:733:ARG:HD2	1.96	0.64
1:A:556:GLU:HB3	1:A:603:GLN:HG3	1.79	0.64
1:A:752:ILE:HG22	1:H:766:ARG:HH21	1.61	0.64
1:B:771:PHE:CE1	2:C:678:MET:HG3	2.32	0.64
3:D:316:THR:CG2	3:D:322:ARG:HG2	2.27	0.64
3:D:349:ARG:CG	3:D:350:PRO:HD2	2.27	0.64
1:F:349:ARG:CG	1:F:350:PRO:HD2	2.27	0.64
1:F:685:ALA:O	1:F:689:GLU:HG3	1.98	0.64
1:G:117:LEU:HD12	1:G:166:VAL:HG11	1.78	0.64
1:H:146:ILE:CG2	1:H:165:VAL:HG21	2.27	0.64
1:I:114:ILE:HD11	1:I:146:ILE:HB	1.79	0.64
1:I:298:PRO:HB3	1:I:340:HIS:HB2	1.79	0.64
1:I:747:VAL:HG11	1:I:752:ILE:HD11	1.79	0.64
1:J:219:MET:CE	1:J:365:ARG:HH11	2.10	0.64
1:J:238:PRO:HB3	1:J:365:ARG:HE	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:658:LYS:O	1:L:662:ARG:HG3	1.97	0.64
1:L:747:VAL:HG11	1:L:752:ILE:HD11	1.79	0.64
1:A:201:VAL:HA	1:A:205:ASP:OD2	1.97	0.64
1:A:316:THR:CG2	1:A:322:ARG:HG2	2.27	0.64
1:E:440:GLU:OE1	1:E:440:GLU:N	2.28	0.64
1:G:669:ASP:OD2	1:G:733:ARG:HD2	1.96	0.64
1:I:136:LYS:HA	1:I:139:PHE:CE2	2.31	0.64
1:J:298:PRO:HB3	1:J:340:HIS:HB2	1.79	0.64
1:J:747:VAL:HG11	1:J:752:ILE:HD11	1.79	0.64
1:A:696:LYS:HB2	1:F:508:MET:CE	2.27	0.64
2:C:228:ALA:HB1	3:D:435:GLU:O	1.98	0.64
1:G:243:LEU:HD11	1:G:344:MET:HE1	1.79	0.64
1:G:703:ILE:HA	1:L:502:LYS:NZ	2.12	0.64
1:J:93:ARG:NH2	1:J:194:GLU:OE1	2.28	0.64
1:K:403:THR:HG22	1:K:403:THR:O	1.96	0.64
1:L:136:LYS:HD3	1:L:139:PHE:CE2	2.32	0.64
1:B:556:GLU:HB3	1:B:603:GLN:HG3	1.79	0.64
1:F:556:GLU:HB3	1:F:603:GLN:HG3	1.79	0.64
1:G:219:MET:CE	1:G:365:ARG:HH11	2.10	0.64
1:G:736:PHE:HB3	1:L:773:PHE:HE2	1.63	0.64
1:H:117:LEU:HD12	1:H:166:VAL:HG11	1.78	0.64
1:I:275:MET:HE1	1:I:321:GLU:OE1	1.96	0.64
1:I:310:ALA:HA	1:I:325:VAL:HG22	1.80	0.64
1:J:114:ILE:HD11	1:J:146:ILE:HB	1.79	0.64
1:B:206:ILE:HG21	1:B:213:LEU:HD22	1.79	0.64
2:C:774:PRO:HD3	3:D:674:PHE:CD2	2.32	0.64
3:D:734:ASP:O	3:D:738:GLU:HG3	1.97	0.64
1:E:206:ILE:HG21	1:E:213:LEU:HD22	1.79	0.64
1:G:667:ALA:O	1:G:670:VAL:HG12	1.98	0.64
1:H:232:ALA:HB2	1:I:436:THR:HA	1.79	0.64
1:H:310:ALA:HA	1:H:325:VAL:HG22	1.80	0.64
1:I:93:ARG:NH2	1:I:194:GLU:OE1	2.28	0.64
1:I:371:ILE:HD11	1:I:466:GLU:CB	2.19	0.64
1:K:528:ALA:O	1:K:531:ILE:HG22	1.97	0.64
1:A:491:GLU:OE2	1:B:700:ARG:HD3	1.98	0.64
1:A:685:ALA:O	1:A:689:GLU:HG3	1.98	0.64
1:B:685:ALA:O	1:B:689:GLU:HG3	1.98	0.64
2:C:206:ILE:HG21	2:C:213:LEU:HD22	1.79	0.64
2:C:230:PHE:HA	2:C:233:ILE:HG22	1.80	0.64
3:D:685:ALA:O	3:D:689:GLU:HG3	1.98	0.64
1:E:219:MET:CE	1:E:365:ARG:HH21	2.10	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:349:ARG:HG2	1:E:350:PRO:HD2	1.80	0.64
1:E:349:ARG:CG	1:E:350:PRO:HD2	2.27	0.64
1:F:230:PHE:HA	1:F:233:ILE:HG22	1.80	0.64
1:F:734:ASP:O	1:F:738:GLU:HG3	1.97	0.64
1:H:114:ILE:HD11	1:H:146:ILE:HB	1.79	0.64
1:I:84:MET:CE	1:I:88:VAL:HG23	2.27	0.64
1:I:117:LEU:HD12	1:I:166:VAL:HG11	1.78	0.64
1:I:269:ILE:HD11	1:I:289:ALA:HB1	1.78	0.64
1:J:479:ILE:HG21	1:J:527:LEU:HD13	1.80	0.64
1:E:556:GLU:HB3	1:E:603:GLN:HG3	1.79	0.64
1:E:685:ALA:O	1:E:689:GLU:HG3	1.98	0.64
1:G:435:GLU:HA	1:L:228:ALA:HB1	1.80	0.64
1:G:703:ILE:CA	1:L:502:LYS:HZ3	2.11	0.64
1:H:136:LYS:HD3	1:H:139:PHE:CE2	2.32	0.64
1:H:219:MET:CE	1:H:365:ARG:HH11	2.10	0.64
1:H:667:ALA:O	1:H:670:VAL:HG12	1.98	0.64
1:J:269:ILE:HD11	1:J:289:ALA:HB1	1.78	0.64
1:J:310:ALA:HA	1:J:325:VAL:HG22	1.80	0.64
1:J:528:ALA:O	1:J:531:ILE:HG22	1.97	0.64
1:K:51:LEU:HD22	1:K:55:ASP:OD2	1.97	0.64
1:L:528:ALA:O	1:L:531:ILE:HG22	1.97	0.64
1:B:349:ARG:HG2	1:B:350:PRO:HD2	1.80	0.64
1:B:504:LEU:HB2	5:B:802:Y6Y:C	2.28	0.64
2:C:349:ARG:HG2	2:C:350:PRO:HD2	1.80	0.64
2:C:508:MET:CE	3:D:696:LYS:HB2	2.27	0.64
2:C:685:ALA:O	2:C:689:GLU:HG3	1.98	0.64
3:D:491:GLU:OE2	1:E:700:ARG:HD3	1.98	0.64
1:F:504:LEU:HB2	5:F:802:Y6Y:C	2.28	0.64
1:H:298:PRO:HB3	1:H:340:HIS:HB2	1.79	0.64
1:H:479:ILE:HG21	1:H:527:LEU:HD13	1.80	0.64
1:H:658:LYS:O	1:H:662:ARG:HG3	1.97	0.64
1:J:667:ALA:O	1:J:670:VAL:HG12	1.98	0.64
1:K:269:ILE:HD11	1:K:289:ALA:HB1	1.78	0.64
1:K:747:VAL:HG11	1:K:752:ILE:HD11	1.79	0.64
1:L:27:ILE:CD1	1:L:99:VAL:HG22	2.26	0.64
1:L:479:ILE:HD11	1:L:526:LEU:CB	2.19	0.64
1:A:219:MET:CE	1:A:365:ARG:HH21	2.10	0.64
1:B:613:THR:HG21	2:C:464:LEU:HD11	1.80	0.64
3:D:206:ILE:HG21	3:D:213:LEU:HD22	1.79	0.64
3:D:230:PHE:HA	3:D:233:ILE:HG22	1.80	0.64
3:D:349:ARG:HG2	3:D:350:PRO:HD2	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:479:ILE:HG21	1:G:527:LEU:HD13	1.80	0.64
1:H:764:GLN:HG3	1:I:741:ARG:O	1.97	0.64
1:I:633:ILE:O	1:I:638:ARG:HB3	1.98	0.64
1:K:114:ILE:HD11	1:K:146:ILE:HB	1.79	0.64
1:K:146:ILE:CG2	1:K:165:VAL:HG21	2.27	0.64
1:B:230:PHE:HA	1:B:233:ILE:HG22	1.80	0.63
1:E:504:LEU:HB2	5:E:802:Y6Y:C	2.28	0.63
1:I:219:MET:CE	1:I:365:ARG:HH11	2.10	0.63
1:K:27:ILE:CD1	1:K:99:VAL:HG22	2.26	0.63
1:K:206:ILE:HG12	1:K:253:LEU:HB3	1.80	0.63
1:L:667:ALA:O	1:L:670:VAL:HG12	1.98	0.63
1:B:373:ASP:O	1:B:377:ARG:N	2.25	0.63
1:H:633:ILE:O	1:H:638:ARG:HB3	1.99	0.63
1:I:479:ILE:HG21	1:I:527:LEU:HD13	1.80	0.63
1:I:602:ASN:HD21	1:J:548:LEU:HB2	1.63	0.63
1:I:667:ALA:O	1:I:670:VAL:HG12	1.98	0.63
1:I:773:PHE:HE2	1:J:736:PHE:HB3	1.63	0.63
1:J:26:LEU:HB3	1:J:100:ILE:O	1.99	0.63
1:J:136:LYS:HD3	1:J:139:PHE:CE2	2.32	0.63
1:J:146:ILE:CG2	1:J:165:VAL:HG21	2.27	0.63
1:K:479:ILE:HG21	1:K:527:LEU:HD13	1.80	0.63
1:B:678:MET:HA	1:B:678:MET:HE3	1.80	0.63
1:B:752:ILE:HG22	1:G:766:ARG:HH21	1.62	0.63
1:H:528:ALA:O	1:H:531:ILE:HG22	1.97	0.63
1:I:136:LYS:HD3	1:I:139:PHE:CE2	2.32	0.63
1:K:658:LYS:O	1:K:662:ARG:HG3	1.97	0.63
2:C:504:LEU:HB2	5:C:802:Y6Y:C	2.28	0.63
3:D:504:LEU:HB2	5:D:802:Y6Y:C	2.28	0.63
1:F:482:LEU:HD13	1:F:527:LEU:HD11	1.81	0.63
1:H:115:HIS:CB	1:H:167:GLU:HB3	2.28	0.63
1:L:146:ILE:CG2	1:L:165:VAL:HG21	2.27	0.63
1:A:206:ILE:HG21	1:A:213:LEU:HD22	1.79	0.63
1:E:307:ASP:O	1:E:311:PRO:HB3	1.99	0.63
1:H:238:PRO:HB3	1:H:365:ARG:HE	1.61	0.63
1:I:126:ILE:HD12	1:I:130:LEU:CB	2.29	0.63
1:I:528:ALA:O	1:I:531:ILE:HG22	1.97	0.63
1:J:206:ILE:HG12	1:J:253:LEU:HB3	1.80	0.63
1:L:206:ILE:HG12	1:L:253:LEU:HB3	1.80	0.63
1:A:230:PHE:HA	1:A:233:ILE:HG22	1.80	0.63
1:A:482:LEU:HD13	1:A:527:LEU:HD11	1.81	0.63
1:A:734:ASP:O	1:A:738:GLU:HG3	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:771:PHE:CE1	3:D:678:MET:HG3	2.32	0.63
1:F:206:ILE:HG21	1:F:213:LEU:HD22	1.79	0.63
1:F:219:MET:CE	1:F:365:ARG:HH21	2.10	0.63
1:F:349:ARG:HG2	1:F:350:PRO:HD2	1.80	0.63
1:G:27:ILE:CD1	1:G:99:VAL:HG22	2.26	0.63
1:G:93:ARG:NH2	1:G:194:GLU:OE1	2.28	0.63
1:G:138:TYR:CD2	1:G:154:VAL:HG12	2.29	0.63
1:G:298:PRO:HB3	1:G:340:HIS:HB2	1.79	0.63
1:G:310:ALA:HA	1:G:325:VAL:HG22	1.80	0.63
1:H:126:ILE:HD12	1:H:130:LEU:CB	2.29	0.63
1:K:26:LEU:HB3	1:K:100:ILE:O	1.99	0.63
1:L:26:LEU:HB3	1:L:100:ILE:O	1.99	0.63
1:L:479:ILE:HG21	1:L:527:LEU:HD13	1.80	0.63
1:A:728:VAL:HG13	1:A:728:VAL:O	1.99	0.63
1:B:482:LEU:HD13	1:B:527:LEU:HD11	1.81	0.63
3:D:330:THR:HG21	1:E:273:GLU:HA	1.80	0.63
3:D:706:GLU:OE1	3:D:706:GLU:C	2.37	0.63
1:E:230:PHE:HA	1:E:233:ILE:HG22	1.80	0.63
1:G:627:ASP:OD1	1:G:628:ILE:HG23	1.99	0.63
1:G:747:VAL:HG11	1:G:752:ILE:HD11	1.79	0.63
1:I:26:LEU:HB3	1:I:100:ILE:O	1.99	0.63
1:I:318:GLY:O	1:I:319:GLU:HB2	1.99	0.63
1:J:153:LEU:HD22	1:J:198:LEU:CD2	2.23	0.63
1:J:153:LEU:CD2	1:J:198:LEU:HD22	2.23	0.63
1:K:310:ALA:HA	1:K:325:VAL:HG22	1.80	0.63
1:L:153:LEU:CD2	1:L:198:LEU:HD22	2.23	0.63
1:A:504:LEU:HB2	5:A:802:Y6Y:C	2.28	0.63
2:C:706:GLU:C	2:C:706:GLU:OE1	2.38	0.63
1:F:307:ASP:O	1:F:311:PRO:HB3	1.99	0.63
1:F:760:GLN:CB	1:I:760:GLN:HE22	2.11	0.63
1:H:26:LEU:HB3	1:H:100:ILE:O	1.99	0.63
1:H:627:ASP:OD1	1:H:628:ILE:HG23	1.99	0.63
1:I:238:PRO:HB3	1:I:365:ARG:HE	1.60	0.63
1:J:406:HIS:HE1	1:J:459:SER:HB2	1.64	0.63
1:K:406:HIS:HE1	1:K:459:SER:HB2	1.64	0.63
1:L:114:ILE:HD11	1:L:146:ILE:HB	1.79	0.63
1:L:115:HIS:CB	1:L:167:GLU:HB3	2.28	0.63
1:A:349:ARG:HG2	1:A:350:PRO:HD2	1.80	0.63
1:A:706:GLU:OE1	1:A:706:GLU:C	2.37	0.63
1:B:307:ASP:O	1:B:311:PRO:HB3	1.99	0.63
1:B:605:LEU:CD2	1:B:633:ILE:HD13	2.24	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:307:ASP:O	2:C:311:PRO:HB3	1.99	0.63
1:F:312:LYS:HB3	1:F:316:THR:OG1	1.99	0.63
1:I:658:LYS:O	1:I:662:ARG:HG3	1.97	0.63
1:J:115:HIS:CB	1:J:167:GLU:HB3	2.28	0.63
1:J:633:ILE:O	1:J:638:ARG:HB3	1.99	0.63
1:L:298:PRO:HB3	1:L:340:HIS:HB2	1.79	0.63
1:L:633:ILE:O	1:L:638:ARG:HB3	1.99	0.63
1:A:274:ILE:HD11	1:A:309:ILE:CG1	2.29	0.62
1:A:307:ASP:O	1:A:311:PRO:HB3	1.99	0.62
3:D:728:VAL:HG13	3:D:728:VAL:O	1.99	0.62
1:E:706:GLU:C	1:E:706:GLU:OE1	2.37	0.62
1:J:126:ILE:HD12	1:J:130:LEU:CB	2.29	0.62
1:J:658:LYS:O	1:J:662:ARG:HG3	1.98	0.62
1:K:115:HIS:CB	1:K:167:GLU:HB3	2.28	0.62
1:K:298:PRO:HB3	1:K:340:HIS:HB2	1.80	0.62
1:E:482:LEU:HD13	1:E:527:LEU:HD11	1.81	0.62
1:F:274:ILE:HD11	1:F:309:ILE:CG1	2.30	0.62
1:F:708:ARG:HH11	1:F:708:ARG:HG3	1.65	0.62
1:G:114:ILE:HD11	1:G:146:ILE:HB	1.79	0.62
1:G:318:GLY:O	1:G:319:GLU:HB2	1.99	0.62
1:G:633:ILE:O	1:G:638:ARG:HB3	1.99	0.62
1:H:371:ILE:HD11	1:H:466:GLU:CB	2.18	0.62
1:I:117:LEU:HD21	1:I:185:GLU:HG3	1.81	0.62
1:J:117:LEU:HD21	1:J:185:GLU:HG3	1.81	0.62
1:K:318:GLY:O	1:K:319:GLU:HB2	1.99	0.62
1:K:627:ASP:OD1	1:K:628:ILE:HG23	1.99	0.62
1:L:310:ALA:HA	1:L:325:VAL:HG22	1.80	0.62
1:L:318:GLY:O	1:L:319:GLU:HB2	1.99	0.62
1:B:377:ARG:CZ	1:B:404:HIS:HA	2.29	0.62
1:B:706:GLU:C	1:B:706:GLU:OE1	2.37	0.62
2:C:482:LEU:HD13	2:C:527:LEU:HD11	1.81	0.62
2:C:678:MET:HA	2:C:678:MET:HE3	1.80	0.62
3:D:377:ARG:CZ	3:D:404:HIS:HA	2.30	0.62
1:E:312:LYS:HB3	1:E:316:THR:OG1	1.99	0.62
1:G:115:HIS:CB	1:G:167:GLU:HB3	2.28	0.62
1:G:126:ILE:HD12	1:G:130:LEU:CB	2.29	0.62
1:G:602:ASN:HD21	1:H:548:LEU:HB2	1.63	0.62
1:K:667:ALA:O	1:K:670:VAL:HG12	1.98	0.62
1:A:377:ARG:CZ	1:A:404:HIS:HA	2.29	0.62
1:B:745:ARG:NH1	1:H:745:ARG:HH12	1.98	0.62
3:D:426:LYS:HD3	3:D:427:MET:N	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:708:ARG:HH11	3:D:708:ARG:HG3	1.65	0.62
1:E:708:ARG:HG3	1:E:708:ARG:HH11	1.65	0.62
1:G:406:HIS:HE1	1:G:459:SER:HB2	1.64	0.62
1:G:502:LYS:NZ	1:H:703:ILE:HA	2.14	0.62
1:H:747:VAL:HG11	1:H:752:ILE:HD11	1.79	0.62
1:I:115:HIS:CB	1:I:167:GLU:HB3	2.28	0.62
1:K:633:ILE:O	1:K:638:ARG:HB3	1.99	0.62
1:A:667:ALA:O	1:A:670:VAL:HG12	2.00	0.62
1:B:274:ILE:HD11	1:B:309:ILE:CG1	2.30	0.62
1:B:667:ALA:O	1:B:670:VAL:HG12	2.00	0.62
1:B:728:VAL:O	1:B:728:VAL:HG13	1.99	0.62
2:C:426:LYS:HD3	2:C:427:MET:N	2.14	0.62
3:D:407:VAL:HG12	3:D:408:GLY:H	1.65	0.62
3:D:732:ARG:HD3	3:D:735:HIS:CE1	2.35	0.62
1:E:407:VAL:HG12	1:E:408:GLY:H	1.65	0.62
1:F:377:ARG:CZ	1:F:404:HIS:HA	2.30	0.62
1:F:706:GLU:C	1:F:706:GLU:OE1	2.37	0.62
1:H:117:LEU:HD21	1:H:185:GLU:HG3	1.81	0.62
1:I:206:ILE:HG12	1:I:253:LEU:HB3	1.80	0.62
1:I:323:ARG:HH21	1:J:278:LEU:HA	1.65	0.62
1:K:275:MET:HE1	1:K:321:GLU:OE1	1.99	0.62
1:L:605:LEU:CD2	1:L:633:ILE:HD13	2.22	0.62
1:B:403:THR:HG21	1:B:411:LEU:HD21	1.82	0.62
3:D:403:THR:HG21	3:D:411:LEU:HD21	1.82	0.62
3:D:771:PHE:HE1	1:E:678:MET:CG	2.10	0.62
1:F:728:VAL:HG13	1:F:728:VAL:O	1.99	0.62
1:H:316:THR:CG2	1:H:321:GLU:HG2	2.22	0.62
1:I:117:LEU:CD1	1:I:166:VAL:HG11	2.30	0.62
1:J:117:LEU:CD1	1:J:166:VAL:HG11	2.30	0.62
1:J:605:LEU:CD2	1:J:633:ILE:HD13	2.22	0.62
1:K:170:PRO:HG2	1:K:174:CYS:HB3	1.82	0.62
1:L:93:ARG:NH2	1:L:194:GLU:OE1	2.28	0.62
1:A:613:THR:HG21	1:B:464:LEU:CD2	2.30	0.62
1:B:613:THR:HG21	2:C:464:LEU:CD2	2.29	0.62
3:D:307:ASP:O	3:D:311:PRO:HB3	1.99	0.62
1:E:274:ILE:HD11	1:E:309:ILE:CG1	2.30	0.62
1:E:377:ARG:CZ	1:E:404:HIS:HA	2.30	0.62
1:H:84:MET:HE1	1:H:89:ARG:HA	1.81	0.62
1:H:586:ARG:NH2	1:H:595:GLY:O	2.24	0.62
1:I:406:HIS:HE1	1:I:459:SER:HB2	1.64	0.62
1:I:492:LEU:HD21	1:I:641:GLN:HG3	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:763:GLN:O	1:J:744:ARG:NH1	2.32	0.62
1:L:170:PRO:HG2	1:L:174:CYS:HB3	1.82	0.62
1:L:406:HIS:HE1	1:L:459:SER:HB2	1.64	0.62
1:A:373:ASP:O	1:A:377:ARG:N	2.25	0.62
1:A:708:ARG:HH11	1:A:708:ARG:HG3	1.65	0.62
1:B:613:THR:CG2	2:C:464:LEU:HD21	2.29	0.62
2:C:274:ILE:HD11	2:C:309:ILE:CG1	2.29	0.62
2:C:732:ARG:HD3	2:C:735:HIS:CE1	2.35	0.62
3:D:312:LYS:HB3	3:D:316:THR:OG1	1.99	0.62
1:E:667:ALA:O	1:E:670:VAL:HG12	1.99	0.62
1:E:709:ARG:CA	1:E:712:GLU:OE1	2.46	0.62
1:G:153:LEU:HD22	1:G:198:LEU:CD2	2.23	0.62
1:G:206:ILE:HG12	1:G:253:LEU:HB3	1.80	0.62
1:I:241:ILE:HG12	1:I:365:ARG:HD2	1.81	0.62
1:J:228:ALA:HB1	1:K:435:GLU:HA	1.80	0.62
1:J:233:ILE:CD1	1:K:158:MET:HB2	2.18	0.62
1:J:318:GLY:O	1:J:319:GLU:HB2	1.99	0.62
1:J:584:LYS:HA	1:J:588:GLY:HA2	1.82	0.62
1:K:323:ARG:HH21	1:L:278:LEU:HA	1.64	0.62
1:A:312:LYS:HB3	1:A:316:THR:OG1	1.99	0.62
1:B:713:ARG:HD2	1:B:713:ARG:C	2.20	0.62
2:C:312:LYS:HB3	2:C:316:THR:OG1	1.99	0.62
3:D:667:ALA:O	3:D:670:VAL:HG12	2.00	0.62
1:G:238:PRO:HB3	1:G:365:ARG:HE	1.60	0.62
1:I:584:LYS:HA	1:I:588:GLY:HA2	1.82	0.62
1:I:605:LEU:CD2	1:I:633:ILE:HD13	2.22	0.62
1:K:43:GLN:NE2	1:K:75:ASP:OD1	2.33	0.62
1:K:241:ILE:HG12	1:K:365:ARG:HD2	1.81	0.62
1:B:247:PRO:HG3	1:B:348:ASN:ND2	2.15	0.62
2:C:247:PRO:HG3	2:C:348:ASN:ND2	2.15	0.62
2:C:407:VAL:HG12	2:C:408:GLY:H	1.65	0.62
3:D:247:PRO:HG3	3:D:348:ASN:ND2	2.15	0.62
3:D:274:ILE:HD11	3:D:309:ILE:CG1	2.30	0.62
1:E:732:ARG:HD3	1:E:735:HIS:CE1	2.34	0.62
1:F:407:VAL:HG12	1:F:408:GLY:H	1.65	0.62
1:F:515:LEU:HD11	1:F:629:ILE:CD1	2.30	0.62
1:G:492:LEU:HD21	1:G:641:GLN:HG3	1.82	0.62
1:H:117:LEU:CD1	1:H:166:VAL:HG11	2.30	0.62
1:H:153:LEU:HD22	1:H:198:LEU:CD2	2.23	0.62
1:H:206:ILE:HG12	1:H:253:LEU:HB3	1.81	0.62
1:A:243:LEU:HD11	1:A:344:MET:CE	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:247:PRO:HG3	1:A:348:ASN:ND2	2.15	0.61
1:B:708:ARG:HH11	1:B:708:ARG:HG3	1.65	0.61
2:C:682:PHE:CE1	2:C:745:ARG:HG3	2.35	0.61
2:C:708:ARG:HH11	2:C:708:ARG:HG3	1.65	0.61
1:E:216:ILE:CD1	1:E:243:LEU:HD21	2.30	0.61
1:G:26:LEU:HB3	1:G:100:ILE:O	1.99	0.61
1:H:318:GLY:O	1:H:319:GLU:HB2	1.99	0.61
1:I:43:GLN:NE2	1:I:75:ASP:OD1	2.33	0.61
1:I:627:ASP:OD1	1:I:628:ILE:HG23	1.99	0.61
1:J:170:PRO:HG2	1:J:174:CYS:HB3	1.82	0.61
1:J:437:ILE:HD11	1:J:442:MET:SD	2.40	0.61
1:L:627:ASP:OD1	1:L:628:ILE:HG23	1.99	0.61
1:A:213:LEU:HG	1:A:217:LYS:HE2	1.82	0.61
1:A:670:VAL:HG23	1:F:773:PHE:CZ	2.35	0.61
2:C:373:ASP:O	2:C:377:ARG:N	2.25	0.61
3:D:682:PHE:CE1	3:D:745:ARG:HG3	2.35	0.61
1:E:682:PHE:CE1	1:E:745:ARG:HG3	2.35	0.61
1:F:243:LEU:HD11	1:F:344:MET:CE	2.31	0.61
1:G:117:LEU:CD1	1:G:166:VAL:HG11	2.30	0.61
1:G:241:ILE:HG12	1:G:365:ARG:HD2	1.81	0.61
1:I:153:LEU:HD22	1:I:198:LEU:CD2	2.23	0.61
1:K:51:LEU:CD1	1:K:104:PRO:HB3	2.31	0.61
1:L:126:ILE:HD12	1:L:130:LEU:CB	2.29	0.61
1:L:155:ARG:HG3	1:L:155:ARG:HH11	1.64	0.61
1:A:773:PHE:CZ	1:B:670:VAL:HG23	2.36	0.61
1:A:775:SER:HB3	1:B:733:ARG:NH2	2.15	0.61
1:B:213:LEU:HG	1:B:217:LYS:HE2	1.82	0.61
1:B:515:LEU:HD11	1:B:629:ILE:CD1	2.30	0.61
2:C:360:PHE:HZ	3:D:462:SER:OG	1.83	0.61
3:D:213:LEU:HG	3:D:217:LYS:HE2	1.82	0.61
1:G:117:LEU:HD21	1:G:185:GLU:HG3	1.81	0.61
1:G:155:ARG:HH11	1:G:155:ARG:HG3	1.65	0.61
1:G:502:LYS:HZ2	1:H:706:GLU:HG3	1.65	0.61
1:J:607:GLU:OE1	1:K:465:ARG:NH2	2.33	0.61
1:J:774:PRO:HD3	1:K:674:PHE:CD2	2.35	0.61
1:L:219:MET:HE2	1:L:365:ARG:HH11	1.66	0.61
1:L:241:ILE:HG12	1:L:365:ARG:HD2	1.81	0.61
1:L:492:LEU:HD21	1:L:641:GLN:HG3	1.82	0.61
1:A:403:THR:HG21	1:A:411:LEU:HD21	1.82	0.61
1:A:515:LEU:HD11	1:A:629:ILE:CD1	2.30	0.61
2:C:243:LEU:HD11	2:C:344:MET:CE	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:667:ALA:O	2:C:670:VAL:HG12	2.00	0.61
3:D:482:LEU:HD13	3:D:527:LEU:HD11	1.81	0.61
1:E:243:LEU:HD11	1:E:344:MET:CE	2.30	0.61
1:H:51:LEU:CD1	1:H:104:PRO:HB3	2.31	0.61
1:J:222:LEU:HD21	1:K:424:ARG:HG2	1.82	0.61
1:K:502:LYS:NZ	1:L:706:GLU:HG3	2.14	0.61
1:L:43:GLN:NE2	1:L:75:ASP:OD1	2.33	0.61
1:L:586:ARG:NH2	1:L:595:GLY:O	2.24	0.61
1:A:330:THR:HG21	1:B:273:GLU:HA	1.82	0.61
1:B:312:LYS:HB3	1:B:316:THR:OG1	1.99	0.61
1:B:598:ASP:OD1	1:B:601:ILE:HB	2.01	0.61
1:B:630:ASP:OD1	1:B:631:PRO:HD2	2.01	0.61
1:B:732:ARG:HD3	1:B:735:HIS:CE1	2.35	0.61
2:C:377:ARG:CZ	2:C:404:HIS:HA	2.29	0.61
3:D:598:ASP:OD1	3:D:601:ILE:HB	2.01	0.61
1:E:426:LYS:HD3	1:E:427:MET:N	2.14	0.61
1:E:598:ASP:OD1	1:E:601:ILE:HB	2.01	0.61
1:F:216:ILE:CD1	1:F:243:LEU:HD21	2.31	0.61
1:G:43:GLN:NE2	1:G:75:ASP:OD1	2.33	0.61
1:G:170:PRO:HG2	1:G:174:CYS:HB3	1.82	0.61
1:G:433:GLU:OE2	1:L:228:ALA:HB3	1.99	0.61
1:H:235:VAL:HG11	1:I:420:LEU:CD2	2.31	0.61
1:I:230:PHE:CZ	1:J:420:LEU:HD11	2.36	0.61
1:J:627:ASP:OD1	1:J:628:ILE:HG23	1.99	0.61
1:K:437:ILE:HD11	1:K:442:MET:SD	2.40	0.61
1:L:246:PRO:HG2	1:L:249:THR:CG2	2.31	0.61
1:L:437:ILE:HD11	1:L:442:MET:SD	2.40	0.61
1:L:584:LYS:HA	1:L:588:GLY:HA2	1.82	0.61
1:A:732:ARG:HD3	1:A:735:HIS:CE1	2.35	0.61
1:B:243:LEU:HD11	1:B:344:MET:CE	2.30	0.61
1:B:682:PHE:CE1	1:B:745:ARG:HG3	2.35	0.61
2:C:213:LEU:HG	2:C:217:LYS:HE2	1.82	0.61
3:D:216:ILE:CD1	3:D:243:LEU:HD21	2.31	0.61
3:D:678:MET:HA	3:D:678:MET:HE3	1.81	0.61
1:E:247:PRO:HG3	1:E:348:ASN:ND2	2.15	0.61
1:F:247:PRO:HG3	1:F:348:ASN:ND2	2.15	0.61
1:G:222:LEU:HD21	1:H:424:ARG:HG2	1.81	0.61
1:G:246:PRO:HG2	1:G:249:THR:CG2	2.31	0.61
1:G:584:LYS:HA	1:G:588:GLY:HA2	1.82	0.61
1:H:675:LEU:HD11	1:H:740:MET:SD	2.41	0.61
1:I:246:PRO:HG2	1:I:249:THR:CG2	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:117:LEU:CD1	1:K:166:VAL:HG11	2.30	0.61
1:K:117:LEU:HD21	1:K:185:GLU:HG3	1.81	0.61
1:K:155:ARG:HH11	1:K:155:ARG:HG3	1.65	0.61
1:L:138:TYR:CD2	1:L:154:VAL:HG12	2.29	0.61
1:L:214:ALA:HA	1:L:217:LYS:HE3	1.83	0.61
1:A:613:THR:CG2	1:B:464:LEU:HD21	2.30	0.61
2:C:630:ASP:OD1	2:C:631:PRO:HD2	2.01	0.61
3:D:243:LEU:HD11	3:D:344:MET:CE	2.30	0.61
1:E:403:THR:HG21	1:E:411:LEU:HD21	1.82	0.61
1:F:682:PHE:CE1	1:F:745:ARG:HG3	2.35	0.61
1:H:43:GLN:NE2	1:H:75:ASP:OD1	2.33	0.61
1:H:154:VAL:HG21	1:H:163:PHE:CE2	2.36	0.61
1:K:243:LEU:HD11	1:K:344:MET:HE1	1.81	0.61
1:L:117:LEU:CD1	1:L:166:VAL:HG11	2.30	0.61
1:A:630:ASP:OD1	1:A:631:PRO:HD2	2.01	0.61
1:B:426:LYS:HD3	1:B:427:MET:N	2.14	0.61
1:E:728:VAL:O	1:E:728:VAL:HG13	1.99	0.61
1:F:426:LYS:HD3	1:F:427:MET:N	2.15	0.61
1:G:215:GLN:O	1:G:219:MET:HG3	2.01	0.61
1:G:437:ILE:HD11	1:G:442:MET:SD	2.40	0.61
1:H:155:ARG:HH11	1:H:155:ARG:HG3	1.65	0.61
1:H:241:ILE:HG12	1:H:365:ARG:HD2	1.81	0.61
1:H:406:HIS:HE1	1:H:459:SER:HB2	1.64	0.61
1:H:492:LEU:HD21	1:H:641:GLN:HG3	1.82	0.61
1:H:605:LEU:CD2	1:H:633:ILE:HD13	2.22	0.61
1:I:170:PRO:HG2	1:I:174:CYS:HB3	1.82	0.61
1:J:492:LEU:HD21	1:J:641:GLN:HG3	1.82	0.61
1:K:214:ALA:HA	1:K:217:LYS:HE3	1.83	0.61
1:L:51:LEU:CD1	1:L:104:PRO:HB3	2.31	0.61
1:L:117:LEU:HD21	1:L:185:GLU:HG3	1.81	0.61
1:L:215:GLN:O	1:L:219:MET:HG3	2.01	0.61
1:A:426:LYS:HD3	1:A:427:MET:N	2.15	0.61
1:A:613:THR:HG21	1:B:464:LEU:CD1	2.29	0.61
1:B:390:LEU:HG	1:B:394:VAL:CG2	2.31	0.61
2:C:515:LEU:HD11	2:C:629:ILE:CD1	2.30	0.61
1:E:515:LEU:HD11	1:E:629:ILE:CD1	2.30	0.61
1:F:667:ALA:O	1:F:670:VAL:HG12	2.00	0.61
1:G:214:ALA:HA	1:G:217:LYS:HE3	1.83	0.61
1:H:170:PRO:HG2	1:H:174:CYS:HB3	1.82	0.61
1:J:138:TYR:CD2	1:J:154:VAL:HG12	2.29	0.61
1:K:93:ARG:NH2	1:K:194:GLU:OE1	2.28	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:126:ILE:HD12	1:K:130:LEU:CB	2.29	0.61
1:K:228:ALA:HB1	1:L:435:GLU:HA	1.82	0.61
1:K:584:LYS:HA	1:K:588:GLY:HA2	1.82	0.61
1:A:745:ARG:NH1	1:I:745:ARG:HH12	1.99	0.61
2:C:403:THR:HG21	2:C:411:LEU:HD21	1.82	0.61
2:C:598:ASP:OD1	2:C:601:ILE:HB	2.01	0.61
2:C:751:ASP:O	2:C:755:TYR:CD1	2.52	0.61
1:F:732:ARG:HD3	1:F:735:HIS:CE1	2.34	0.61
1:J:51:LEU:CD1	1:J:104:PRO:HB3	2.31	0.61
1:J:155:ARG:HH11	1:J:155:ARG:HG3	1.64	0.61
1:J:241:ILE:HG12	1:J:365:ARG:HD2	1.81	0.61
1:K:487:ARG:HH22	1:L:700:ARG:HH11	1.47	0.61
1:K:605:LEU:CD2	1:K:633:ILE:HD13	2.22	0.61
1:K:675:LEU:HD11	1:K:740:MET:SD	2.41	0.61
1:L:243:LEU:HD11	1:L:344:MET:HE1	1.80	0.61
2:C:244:TYR:HE2	2:C:366:GLU:HB3	1.66	0.60
2:C:390:LEU:HG	2:C:394:VAL:CG2	2.31	0.60
2:C:506:PHE:CD2	3:D:699:ILE:HG12	2.36	0.60
1:G:57:VAL:HG21	1:G:71:VAL:CG2	2.31	0.60
1:G:154:VAL:HG21	1:G:163:PHE:CE2	2.36	0.60
1:G:675:LEU:HD11	1:G:740:MET:SD	2.41	0.60
1:H:215:GLN:O	1:H:219:MET:HG3	2.01	0.60
1:H:437:ILE:HD11	1:H:442:MET:SD	2.40	0.60
1:I:51:LEU:CD1	1:I:104:PRO:HB3	2.31	0.60
1:I:155:ARG:HG3	1:I:155:ARG:HH11	1.65	0.60
1:K:246:PRO:HG2	1:K:249:THR:CG2	2.31	0.60
1:A:216:ILE:CD1	1:A:243:LEU:HD21	2.31	0.60
1:A:682:PHE:CE1	1:A:745:ARG:HG3	2.35	0.60
1:B:440:GLU:N	1:B:440:GLU:OE1	2.28	0.60
1:B:706:GLU:OE1	1:B:707:ILE:HD13	2.02	0.60
2:C:728:VAL:O	2:C:728:VAL:HG13	1.99	0.60
3:D:495:TYR:HE1	1:E:703:ILE:HG21	1.65	0.60
1:E:495:TYR:HE1	1:F:703:ILE:HG21	1.65	0.60
1:H:584:LYS:HA	1:H:588:GLY:HA2	1.82	0.60
1:J:43:GLN:NE2	1:J:75:ASP:OD1	2.33	0.60
1:J:675:LEU:HD11	1:J:740:MET:SD	2.41	0.60
1:L:57:VAL:HG21	1:L:71:VAL:CG2	2.31	0.60
1:A:407:VAL:HG12	1:A:408:GLY:H	1.65	0.60
2:C:216:ILE:CD1	2:C:243:LEU:HD21	2.31	0.60
1:E:390:LEU:HG	1:E:394:VAL:CG2	2.31	0.60
1:F:244:TYR:HE2	1:F:366:GLU:HB3	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:51:LEU:HD11	1:G:104:PRO:HA	1.84	0.60
1:G:313:ARG:HH22	1:G:329:LEU:HD12	1.67	0.60
1:I:697:LEU:HD13	1:I:738:GLU:CB	2.29	0.60
1:K:58:LEU:HB3	1:K:66:GLU:OE2	2.02	0.60
1:K:154:VAL:HG21	1:K:163:PHE:CE2	2.36	0.60
1:L:154:VAL:HG21	1:L:163:PHE:CE2	2.36	0.60
1:B:407:VAL:HG12	1:B:408:GLY:H	1.65	0.60
2:C:440:GLU:OE1	2:C:440:GLU:N	2.28	0.60
3:D:515:LEU:HD11	3:D:629:ILE:HD13	1.84	0.60
1:E:213:LEU:HG	1:E:217:LYS:HE2	1.82	0.60
1:E:396:LEU:HA	1:E:399:VAL:HG12	1.84	0.60
1:G:51:LEU:CD1	1:G:104:PRO:HB3	2.31	0.60
1:H:57:VAL:HG21	1:H:71:VAL:CG2	2.31	0.60
1:H:246:PRO:HG2	1:H:249:THR:HG21	1.84	0.60
1:H:390:LEU:HD21	1:H:396:LEU:HG	1.84	0.60
1:J:246:PRO:HG2	1:J:249:THR:CG2	2.31	0.60
1:J:487:ARG:HH22	1:K:700:ARG:NH1	1.98	0.60
1:J:602:ASN:HD21	1:K:548:LEU:HB2	1.64	0.60
1:B:244:TYR:HE2	1:B:366:GLU:HB3	1.66	0.60
2:C:396:LEU:HA	2:C:399:VAL:HG12	1.84	0.60
1:I:57:VAL:HG21	1:I:71:VAL:CG2	2.31	0.60
1:I:437:ILE:HD11	1:I:442:MET:SD	2.40	0.60
1:L:51:LEU:HD11	1:L:104:PRO:HA	1.84	0.60
1:L:153:LEU:HD22	1:L:198:LEU:CD2	2.23	0.60
1:L:313:ARG:HH22	1:L:329:LEU:HD12	1.67	0.60
1:L:653:ARG:NH1	1:L:676:ALA:O	2.34	0.60
1:A:390:LEU:HG	1:A:394:VAL:CG2	2.31	0.60
1:B:216:ILE:CD1	1:B:243:LEU:HD21	2.31	0.60
3:D:515:LEU:HD11	3:D:629:ILE:CD1	2.30	0.60
3:D:613:THR:HG21	1:E:464:LEU:CD1	2.31	0.60
3:D:630:ASP:OD1	3:D:631:PRO:HD2	2.01	0.60
1:E:244:TYR:HE2	1:E:366:GLU:HB3	1.66	0.60
1:E:249:THR:O	1:E:249:THR:HG22	2.02	0.60
1:E:706:GLU:OE1	1:E:707:ILE:HD13	2.02	0.60
1:E:708:ARG:O	1:E:712:GLU:OE1	2.19	0.60
1:F:213:LEU:HG	1:F:217:LYS:HE2	1.81	0.60
1:F:598:ASP:OD1	1:F:601:ILE:HB	2.01	0.60
1:F:630:ASP:OD1	1:F:631:PRO:HD2	2.01	0.60
1:F:706:GLU:OE1	1:F:707:ILE:HD13	2.02	0.60
1:F:722:VAL:HG13	1:F:722:VAL:O	2.02	0.60
1:G:151:ILE:CG2	1:G:162:GLU:HB2	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:246:PRO:HG2	1:G:249:THR:HG21	1.84	0.60
1:G:316:THR:CG2	1:G:321:GLU:HG2	2.22	0.60
1:G:390:LEU:HD21	1:G:396:LEU:HG	1.84	0.60
1:G:605:LEU:CD2	1:G:633:ILE:HD13	2.22	0.60
1:I:312:LYS:HE2	1:I:351:ASN:O	2.02	0.60
1:K:390:LEU:HD21	1:K:396:LEU:HG	1.84	0.60
1:L:390:LEU:HD21	1:L:396:LEU:HG	1.84	0.60
1:A:244:TYR:HE2	1:A:366:GLU:HB3	1.67	0.60
1:A:391:ALA:HB2	1:A:446:ALA:HB1	1.84	0.60
1:F:403:THR:HG21	1:F:411:LEU:HD21	1.82	0.60
1:G:228:ALA:HB1	1:H:435:GLU:HA	1.83	0.60
1:G:502:LYS:NZ	1:H:706:GLU:HG3	2.17	0.60
1:I:151:ILE:CG2	1:I:162:GLU:HB2	2.32	0.60
1:J:58:LEU:HB3	1:J:66:GLU:OE2	2.02	0.60
1:K:51:LEU:HD11	1:K:104:PRO:HA	1.84	0.60
1:K:492:LEU:HD21	1:K:641:GLN:HG3	1.82	0.60
1:L:58:LEU:HB3	1:L:66:GLU:OE2	2.02	0.60
1:L:151:ILE:CG2	1:L:162:GLU:HB2	2.32	0.60
1:A:327:GLN:HA	1:B:276:SER:HB2	1.83	0.60
1:A:706:GLU:OE1	1:A:707:ILE:HD13	2.02	0.60
1:B:713:ARG:HD2	1:B:713:ARG:O	2.02	0.60
1:B:722:VAL:O	1:B:722:VAL:HG13	2.02	0.60
2:C:391:ALA:HB2	2:C:446:ALA:HB1	1.84	0.60
2:C:706:GLU:OE1	2:C:707:ILE:HD13	2.01	0.60
3:D:391:ALA:HB2	3:D:446:ALA:HB1	1.84	0.60
3:D:706:GLU:OE1	3:D:707:ILE:HD13	2.01	0.60
1:E:613:THR:HG21	1:F:464:LEU:CD1	2.32	0.60
1:F:708:ARG:HG2	1:F:708:ARG:O	1.99	0.60
1:H:246:PRO:HG2	1:H:249:THR:CG2	2.31	0.60
1:I:154:VAL:HG21	1:I:163:PHE:CE2	2.36	0.60
1:I:246:PRO:HG2	1:I:249:THR:HG21	1.84	0.60
1:I:390:LEU:HD21	1:I:396:LEU:HG	1.84	0.60
1:K:84:MET:HE2	1:K:88:VAL:HG23	1.83	0.60
1:K:138:TYR:CD2	1:K:154:VAL:HG12	2.29	0.60
1:L:675:LEU:HD11	1:L:740:MET:SD	2.41	0.60
1:A:598:ASP:OD1	1:A:601:ILE:HB	2.01	0.60
1:B:391:ALA:HB2	1:B:446:ALA:HB1	1.84	0.60
3:D:390:LEU:HG	3:D:394:VAL:CG2	2.31	0.60
3:D:713:ARG:HD2	3:D:714:GLN:N	2.17	0.60
1:G:154:VAL:HG21	1:G:163:PHE:HE2	1.67	0.60
1:G:312:LYS:HE2	1:G:351:ASN:O	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:469:VAL:CG1	1:G:538:ASN:HB3	2.32	0.60
1:H:313:ARG:HH22	1:H:329:LEU:HD12	1.67	0.60
1:I:469:VAL:CG1	1:I:538:ASN:HB3	2.32	0.60
1:I:675:LEU:HD11	1:I:740:MET:SD	2.41	0.60
1:J:215:GLN:O	1:J:219:MET:HG3	2.01	0.60
1:K:57:VAL:HG21	1:K:71:VAL:CG2	2.31	0.60
1:K:215:GLN:O	1:K:219:MET:HG3	2.01	0.60
2:C:722:VAL:HG13	2:C:722:VAL:O	2.02	0.60
3:D:745:ARG:NH1	1:L:745:ARG:HH12	1.99	0.60
1:F:390:LEU:HG	1:F:394:VAL:CG2	2.31	0.60
1:G:697:LEU:HD13	1:G:738:GLU:CB	2.29	0.60
1:I:215:GLN:O	1:I:219:MET:HG3	2.01	0.60
1:J:214:ALA:HA	1:J:217:LYS:HE3	1.83	0.60
1:J:390:LEU:HD21	1:J:396:LEU:HG	1.84	0.60
1:K:153:LEU:CD2	1:K:198:LEU:HD22	2.23	0.60
1:K:640:ASP:O	1:K:642:LEU:HD12	2.02	0.60
1:K:653:ARG:NH1	1:K:676:ALA:O	2.34	0.60
1:B:380:ILE:O	1:B:383:ILE:HG22	2.02	0.59
1:B:491:GLU:CA	1:B:495:TYR:HD2	2.11	0.59
3:D:244:TYR:HE2	3:D:366:GLU:HB3	1.66	0.59
3:D:249:THR:O	3:D:249:THR:HG22	2.02	0.59
3:D:517:TYR:HB2	3:D:626:PRO:HG3	1.84	0.59
3:D:722:VAL:O	3:D:722:VAL:HG13	2.02	0.59
3:D:751:ASP:O	3:D:755:TYR:CD1	2.52	0.59
1:E:517:TYR:HB2	1:E:626:PRO:HG3	1.84	0.59
1:E:630:ASP:OD1	1:E:631:PRO:HD2	2.01	0.59
1:F:391:ALA:HB2	1:F:446:ALA:HB1	1.84	0.59
1:F:745:ARG:NH1	1:J:745:ARG:HH12	1.99	0.59
1:H:469:VAL:CG1	1:H:538:ASN:HB3	2.32	0.59
1:H:601:ILE:HG23	1:H:633:ILE:HD11	1.84	0.59
1:J:313:ARG:HH22	1:J:329:LEU:HD12	1.67	0.59
2:C:491:GLU:CA	2:C:495:TYR:HD2	2.11	0.59
2:C:517:TYR:HB2	2:C:626:PRO:HG3	1.84	0.59
3:D:380:ILE:O	3:D:383:ILE:HG22	2.02	0.59
1:E:722:VAL:HG13	1:E:722:VAL:O	2.02	0.59
1:G:502:LYS:HZ3	1:H:703:ILE:CA	2.14	0.59
1:G:640:ASP:O	1:G:642:LEU:HD12	2.02	0.59
1:H:214:ALA:HA	1:H:217:LYS:HE3	1.83	0.59
1:I:154:VAL:HG21	1:I:163:PHE:HE2	1.67	0.59
1:I:214:ALA:HA	1:I:217:LYS:HE3	1.83	0.59
1:I:316:THR:CG2	1:I:321:GLU:HG2	2.22	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:154:VAL:HG21	1:J:163:PHE:CE2	2.36	0.59
1:J:640:ASP:O	1:J:642:LEU:HD12	2.02	0.59
1:L:154:VAL:HG21	1:L:163:PHE:HE2	1.67	0.59
1:L:469:VAL:CG1	1:L:538:ASN:HB3	2.32	0.59
1:B:396:LEU:HA	1:B:399:VAL:HG12	1.84	0.59
2:C:515:LEU:HD11	2:C:629:ILE:HD13	1.84	0.59
1:E:406:HIS:HD2	1:E:461:PRO:CB	2.04	0.59
1:E:442:MET:O	1:E:445:LEU:HG	2.03	0.59
1:E:462:SER:O	1:E:463:ALA:CB	2.51	0.59
1:E:678:MET:HA	1:E:678:MET:HE3	1.84	0.59
1:E:751:ASP:O	1:E:755:TYR:CD1	2.52	0.59
1:G:601:ILE:HG23	1:G:633:ILE:HD11	1.84	0.59
1:G:764:GLN:CG	1:H:742:PHE:HA	2.33	0.59
1:H:51:LEU:HD11	1:H:104:PRO:HA	1.84	0.59
1:H:154:VAL:HG21	1:H:163:PHE:HE2	1.67	0.59
1:I:153:LEU:CD2	1:I:198:LEU:HD22	2.23	0.59
1:J:57:VAL:HG21	1:J:71:VAL:CG2	2.31	0.59
1:K:147:ARG:HG2	1:K:147:ARG:HH11	1.68	0.59
1:L:575:PHE:CE2	1:L:577:ASP:HB2	2.38	0.59
1:F:380:ILE:O	1:F:383:ILE:HG22	2.02	0.59
1:F:442:MET:O	1:F:445:LEU:HG	2.03	0.59
1:F:462:SER:O	1:F:463:ALA:CB	2.51	0.59
1:F:515:LEU:HD11	1:F:629:ILE:HD13	1.84	0.59
1:G:145:PRO:HA	1:G:175:ILE:HA	1.85	0.59
1:G:700:ARG:NH1	1:L:487:ARG:HH22	1.99	0.59
1:G:744:ARG:NH1	1:L:763:GLN:O	2.36	0.59
1:H:43:GLN:CD	1:H:44:PRO:HD3	2.23	0.59
1:H:203:TYR:HB3	1:H:261:GLU:OE2	2.02	0.59
1:H:653:ARG:NH1	1:H:676:ALA:O	2.34	0.59
1:H:697:LEU:HD13	1:H:738:GLU:CB	2.29	0.59
1:I:203:TYR:HB3	1:I:261:GLU:OE2	2.02	0.59
1:J:51:LEU:HD11	1:J:104:PRO:HA	1.84	0.59
1:K:154:VAL:HG21	1:K:163:PHE:HE2	1.67	0.59
1:K:203:TYR:HB3	1:K:261:GLU:OE2	2.02	0.59
1:K:313:ARG:HH22	1:K:329:LEU:HD12	1.67	0.59
1:K:438:ASP:OD2	1:K:441:VAL:HG23	2.02	0.59
1:A:464:LEU:HD21	1:F:613:THR:HG21	1.84	0.59
1:B:249:THR:O	1:B:249:THR:HG22	2.02	0.59
2:C:575:PHE:CE2	2:C:577:ASP:HB2	2.38	0.59
1:E:391:ALA:HB2	1:E:446:ALA:HB1	1.84	0.59
1:F:575:PHE:CE2	1:F:577:ASP:HB2	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:751:ASP:O	1:F:755:TYR:CD1	2.52	0.59
1:G:147:ARG:HG2	1:G:147:ARG:HH11	1.68	0.59
1:H:438:ASP:OD2	1:H:441:VAL:HG23	2.02	0.59
1:H:640:ASP:O	1:H:642:LEU:HD12	2.02	0.59
1:I:58:LEU:HB3	1:I:66:GLU:OE2	2.02	0.59
1:I:438:ASP:OD2	1:I:441:VAL:HG23	2.02	0.59
1:J:145:PRO:HA	1:J:175:ILE:HA	1.85	0.59
1:K:215:GLN:O	1:K:218:GLU:HG2	2.03	0.59
1:L:438:ASP:OD2	1:L:441:VAL:HG23	2.02	0.59
1:L:640:ASP:O	1:L:642:LEU:HD12	2.02	0.59
1:A:380:ILE:O	1:A:383:ILE:HG22	2.02	0.59
1:E:575:PHE:CE2	1:E:577:ASP:HB2	2.38	0.59
1:E:752:ILE:HG22	1:J:766:ARG:HH21	1.67	0.59
1:G:58:LEU:HB3	1:G:66:GLU:OE2	2.02	0.59
1:H:752:ILE:HA	1:H:755:TYR:HD1	1.68	0.59
1:I:43:GLN:CD	1:I:44:PRO:HD3	2.23	0.59
1:I:313:ARG:HH22	1:I:329:LEU:HD12	1.67	0.59
1:J:151:ILE:CG2	1:J:162:GLU:HB2	2.32	0.59
1:J:317:HIS:CG	1:J:317:HIS:O	2.56	0.59
1:K:43:GLN:CD	1:K:44:PRO:HD3	2.23	0.59
1:K:145:PRO:HA	1:K:175:ILE:HA	1.85	0.59
1:K:151:ILE:CG2	1:K:162:GLU:HB2	2.32	0.59
1:K:312:LYS:HE2	1:K:351:ASN:O	2.02	0.59
1:K:575:PHE:CE2	1:K:577:ASP:HB2	2.38	0.59
1:L:312:LYS:HE2	1:L:351:ASN:O	2.02	0.59
1:A:722:VAL:O	1:A:722:VAL:HG13	2.02	0.59
2:C:753:ARG:HH12	1:L:761:THR:HA	1.66	0.59
3:D:575:PHE:CE2	3:D:577:ASP:HB2	2.38	0.59
1:G:706:GLU:HG3	1:L:502:LYS:NZ	2.17	0.59
1:G:763:GLN:O	1:H:744:ARG:NH1	2.35	0.59
1:H:151:ILE:CG2	1:H:162:GLU:HB2	2.32	0.59
1:H:219:MET:HE1	1:H:365:ARG:HD3	1.83	0.59
1:I:147:ARG:HG2	1:I:147:ARG:HH11	1.68	0.59
1:I:274:ILE:HD11	1:I:309:ILE:CG1	2.33	0.59
1:J:312:LYS:HE2	1:J:351:ASN:O	2.02	0.59
1:J:469:VAL:CG1	1:J:538:ASN:HB3	2.32	0.59
1:K:751:ASP:O	1:K:755:TYR:CD1	2.56	0.59
1:L:43:GLN:CD	1:L:44:PRO:HD3	2.23	0.59
1:L:147:ARG:HH11	1:L:147:ARG:HG2	1.68	0.59
1:G:317:HIS:CG	1:G:317:HIS:O	2.56	0.59
1:G:575:PHE:CE2	1:G:577:ASP:HB2	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:653:ARG:NH1	1:G:676:ALA:O	2.34	0.59
1:H:274:ILE:HD11	1:H:309:ILE:CG1	2.33	0.59
1:I:84:MET:HE1	1:I:89:ARG:HA	1.85	0.59
1:I:640:ASP:O	1:I:642:LEU:HD12	2.02	0.59
1:J:601:ILE:HG23	1:J:633:ILE:HD11	1.84	0.59
1:K:469:VAL:CG1	1:K:538:ASN:HB3	2.32	0.59
1:K:614:LYS:HG2	1:K:617:VAL:HG23	1.85	0.59
1:K:773:PHE:HE2	1:L:736:PHE:HB3	1.67	0.59
1:L:145:PRO:HA	1:L:175:ILE:HA	1.85	0.59
1:L:317:HIS:CG	1:L:317:HIS:O	2.56	0.59
1:L:751:ASP:O	1:L:755:TYR:CD1	2.56	0.59
1:A:674:PHE:O	1:A:677:LYS:HG2	2.03	0.59
1:A:678:MET:HA	1:A:678:MET:HE3	1.85	0.59
1:A:702:SER:HB2	1:A:728:VAL:CG1	2.33	0.59
1:B:702:SER:HB2	1:B:728:VAL:CG1	2.33	0.59
3:D:396:LEU:HA	3:D:399:VAL:HG12	1.84	0.59
3:D:442:MET:O	3:D:445:LEU:HG	2.03	0.59
3:D:523:GLY:O	3:D:527:LEU:HG	2.03	0.59
1:E:380:ILE:O	1:E:383:ILE:HG22	2.02	0.59
1:F:396:LEU:HA	1:F:399:VAL:HG12	1.84	0.59
1:F:678:MET:HA	1:F:678:MET:HE3	1.85	0.59
1:G:420:LEU:HD11	1:L:230:PHE:CZ	2.38	0.59
1:H:312:LYS:HE2	1:H:351:ASN:O	2.02	0.59
1:I:614:LYS:HG2	1:I:617:VAL:HG23	1.85	0.59
1:J:43:GLN:CD	1:J:44:PRO:HD3	2.23	0.59
1:J:751:ASP:O	1:J:755:TYR:CD1	2.56	0.59
1:K:317:HIS:O	1:K:317:HIS:CG	2.56	0.59
1:L:246:PRO:HG2	1:L:249:THR:HG21	1.84	0.59
1:A:390:LEU:HG	1:A:394:VAL:HG23	1.85	0.59
1:A:442:MET:O	1:A:445:LEU:HG	2.03	0.59
1:B:674:PHE:O	1:B:677:LYS:HG2	2.03	0.59
3:D:406:HIS:HD2	3:D:461:PRO:CB	2.04	0.59
1:E:708:ARG:O	1:E:708:ARG:HG2	1.98	0.59
1:F:249:THR:HG22	1:F:249:THR:O	2.02	0.59
1:F:406:HIS:HD2	1:F:461:PRO:CB	2.04	0.59
1:F:517:TYR:HB2	1:F:626:PRO:HG3	1.84	0.59
1:F:523:GLY:O	1:F:527:LEU:HG	2.03	0.59
1:G:752:ILE:HA	1:G:755:TYR:HD1	1.68	0.59
1:H:145:PRO:HA	1:H:175:ILE:HA	1.85	0.59
1:J:26:LEU:O	1:J:27:ILE:HD13	2.03	0.59
1:J:316:THR:CG2	1:J:321:GLU:HG2	2.22	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:575:PHE:CE2	1:J:577:ASP:HB2	2.38	0.59
1:L:601:ILE:HG23	1:L:633:ILE:HD11	1.84	0.59
1:A:575:PHE:CE2	1:A:577:ASP:HB2	2.38	0.58
1:A:742:PHE:CD2	1:F:764:GLN:OE1	2.55	0.58
1:B:390:LEU:HG	1:B:394:VAL:HG23	1.85	0.58
2:C:201:VAL:HG21	2:C:253:LEU:HD11	1.85	0.58
2:C:390:LEU:HG	2:C:394:VAL:HG23	1.85	0.58
3:D:421:GLN:NE2	3:D:451:ASP:OD1	2.37	0.58
1:F:373:ASP:O	1:F:377:ARG:N	2.25	0.58
1:F:421:GLN:NE2	1:F:451:ASP:OD1	2.36	0.58
1:F:516:PHE:N	1:F:621:GLY:O	2.36	0.58
1:F:674:PHE:O	1:F:677:LYS:HG2	2.03	0.58
1:H:58:LEU:HB3	1:H:66:GLU:OE2	2.02	0.58
1:H:575:PHE:CE2	1:H:577:ASP:HB2	2.38	0.58
1:I:26:LEU:O	1:I:27:ILE:HD13	2.03	0.58
1:I:51:LEU:HD11	1:I:104:PRO:HA	1.84	0.58
1:I:138:TYR:CD2	1:I:154:VAL:HG12	2.29	0.58
1:I:317:HIS:CG	1:I:317:HIS:O	2.56	0.58
1:J:203:TYR:HB3	1:J:261:GLU:OE2	2.02	0.58
1:J:653:ARG:NH1	1:J:676:ALA:O	2.34	0.58
1:L:203:TYR:HB3	1:L:261:GLU:OE2	2.02	0.58
1:F:390:LEU:HG	1:F:394:VAL:HG23	1.85	0.58
1:G:43:GLN:CD	1:G:44:PRO:HD3	2.23	0.58
1:G:95:ARG:HD2	1:G:225:ARG:HH12	1.68	0.58
1:H:26:LEU:O	1:H:27:ILE:HD13	2.03	0.58
1:H:215:GLN:O	1:H:218:GLU:HG2	2.03	0.58
1:H:614:LYS:HG2	1:H:617:VAL:HG23	1.85	0.58
1:I:95:ARG:HD2	1:I:225:ARG:HH12	1.68	0.58
1:I:215:GLN:O	1:I:218:GLU:HG2	2.03	0.58
1:I:575:PHE:CE2	1:I:577:ASP:HB2	2.38	0.58
1:L:95:ARG:HD2	1:L:225:ARG:HH12	1.68	0.58
1:L:614:LYS:HG2	1:L:617:VAL:HG23	1.85	0.58
1:A:249:THR:HG22	1:A:249:THR:O	2.02	0.58
1:A:406:HIS:HD2	1:A:461:PRO:CB	2.04	0.58
1:A:462:SER:O	1:A:463:ALA:CB	2.50	0.58
1:A:774:PRO:HD3	1:B:674:PHE:CD2	2.37	0.58
1:B:201:VAL:HG21	1:B:253:LEU:HD11	1.85	0.58
3:D:390:LEU:HG	3:D:394:VAL:HG23	1.85	0.58
1:E:390:LEU:HG	1:E:394:VAL:HG23	1.85	0.58
1:E:674:PHE:O	1:E:677:LYS:HG2	2.03	0.58
1:E:775:SER:HB3	1:F:733:ARG:HH22	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:567:ARG:HG3	1:G:614:LYS:HD3	1.86	0.58
1:G:751:ASP:O	1:G:755:TYR:CD1	2.56	0.58
1:J:156:GLY:HA2	1:J:389:LYS:HZ2	1.68	0.58
1:J:246:PRO:HG2	1:J:249:THR:HG21	1.84	0.58
1:J:394:VAL:HG12	1:J:449:MET:HB2	1.85	0.58
1:J:614:LYS:HG2	1:J:617:VAL:HG23	1.85	0.58
1:K:502:LYS:HZ2	1:L:706:GLU:HG3	1.67	0.58
1:A:515:LEU:HD11	1:A:629:ILE:HD13	1.84	0.58
1:A:523:GLY:O	1:A:527:LEU:HG	2.03	0.58
2:C:708:ARG:O	2:C:708:ARG:HG2	1.98	0.58
3:D:201:VAL:HG21	3:D:253:LEU:HD11	1.85	0.58
3:D:462:SER:O	3:D:463:ALA:CB	2.51	0.58
1:E:421:GLN:NE2	1:E:451:ASP:OD1	2.36	0.58
1:E:515:LEU:HD11	1:E:629:ILE:HD13	1.84	0.58
1:E:682:PHE:CE2	1:E:690:ILE:HD11	2.39	0.58
1:G:215:GLN:O	1:G:218:GLU:HG2	2.03	0.58
1:G:614:LYS:HG2	1:G:617:VAL:HG23	1.85	0.58
1:H:601:ILE:O	1:H:605:LEU:HG	2.04	0.58
1:I:145:PRO:HA	1:I:175:ILE:HA	1.85	0.58
1:I:601:ILE:O	1:I:605:LEU:HG	2.04	0.58
1:J:95:ARG:HD2	1:J:225:ARG:HH12	1.68	0.58
1:J:274:ILE:HD11	1:J:309:ILE:CG1	2.33	0.58
1:J:317:HIS:CE1	1:K:318:GLY:HA2	2.39	0.58
1:K:246:PRO:HG2	1:K:249:THR:HG21	1.84	0.58
1:A:421:GLN:NE2	1:A:451:ASP:OD1	2.36	0.58
1:A:682:PHE:CE2	1:A:690:ILE:HD11	2.39	0.58
1:B:517:TYR:HB2	1:B:626:PRO:HG3	1.84	0.58
1:B:771:PHE:HE1	2:C:678:MET:CG	2.16	0.58
2:C:442:MET:O	2:C:445:LEU:HG	2.03	0.58
3:D:752:ILE:HG22	1:K:766:ARG:HH21	1.67	0.58
1:F:206:ILE:CD1	1:F:253:LEU:HG	2.34	0.58
1:F:728:VAL:HG23	1:F:732:ARG:HD3	1.85	0.58
1:G:203:TYR:HB3	1:G:261:GLU:OE2	2.02	0.58
1:I:653:ARG:NH1	1:I:676:ALA:O	2.34	0.58
1:I:751:ASP:O	1:I:755:TYR:CD1	2.56	0.58
1:I:752:ILE:HA	1:I:755:TYR:HD1	1.68	0.58
1:J:154:VAL:HG21	1:J:163:PHE:HE2	1.67	0.58
1:J:215:GLN:O	1:J:218:GLU:HG2	2.03	0.58
1:K:601:ILE:O	1:K:605:LEU:HG	2.04	0.58
1:L:215:GLN:O	1:L:218:GLU:HG2	2.03	0.58
1:L:230:PHE:CZ	1:L:237:PRO:HB3	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:575:PHE:CE2	1:B:577:ASP:HB2	2.38	0.58
2:C:249:THR:HG22	2:C:249:THR:O	2.02	0.58
3:D:674:PHE:O	3:D:677:LYS:HG2	2.03	0.58
1:E:201:VAL:HG21	1:E:253:LEU:HD11	1.85	0.58
1:E:206:ILE:CD1	1:E:253:LEU:HG	2.34	0.58
1:E:393:ASP:OD1	1:E:394:VAL:N	2.37	0.58
1:F:702:SER:HB2	1:F:728:VAL:CG1	2.33	0.58
1:G:438:ASP:OD2	1:G:441:VAL:HG23	2.02	0.58
1:H:95:ARG:HD2	1:H:225:ARG:HH12	1.68	0.58
1:H:147:ARG:HG2	1:H:147:ARG:HH11	1.68	0.58
1:J:601:ILE:O	1:J:605:LEU:HG	2.04	0.58
1:K:26:LEU:O	1:K:27:ILE:HD13	2.03	0.58
1:A:396:LEU:HA	1:A:399:VAL:HG12	1.84	0.58
1:A:753:ARG:HH12	1:H:761:THR:HA	1.67	0.58
1:B:442:MET:O	1:B:445:LEU:HG	2.03	0.58
1:B:515:LEU:HD11	1:B:629:ILE:HD13	1.84	0.58
3:D:728:VAL:HG23	3:D:732:ARG:HD3	1.85	0.58
1:E:523:GLY:O	1:E:527:LEU:HG	2.03	0.58
1:G:274:ILE:HD11	1:G:309:ILE:CG1	2.33	0.58
1:G:487:ARG:HH22	1:H:700:ARG:NH1	2.01	0.58
1:I:487:ARG:HH22	1:J:700:ARG:NH1	2.01	0.58
1:J:586:ARG:NH2	1:J:595:GLY:O	2.24	0.58
1:A:206:ILE:CD1	1:A:253:LEU:HG	2.34	0.58
2:C:702:SER:HB2	2:C:728:VAL:CG1	2.33	0.58
3:D:270:ASN:HB3	3:D:273:GLU:HB2	1.86	0.58
1:E:702:SER:HB2	1:E:728:VAL:CG1	2.33	0.58
1:F:219:MET:HE2	1:F:365:ARG:NH2	2.18	0.58
1:F:430:ILE:HG13	1:F:432:LEU:H	1.69	0.58
1:G:158:MET:HB2	1:L:233:ILE:CD1	2.24	0.58
1:G:317:HIS:NE2	1:H:317:HIS:CD2	2.72	0.58
1:G:548:LEU:HB2	1:L:602:ASN:HD21	1.68	0.58
1:H:156:GLY:HA2	1:H:389:LYS:HZ2	1.68	0.58
1:H:751:ASP:O	1:H:755:TYR:CD1	2.56	0.58
1:I:601:ILE:HG23	1:I:633:ILE:HD11	1.84	0.58
1:I:607:GLU:OE1	1:J:465:ARG:NH2	2.36	0.58
1:K:414:LEU:CD1	1:K:456:LEU:HD23	2.34	0.58
1:L:95:ARG:HD3	1:L:261:GLU:O	2.04	0.58
1:A:775:SER:HB3	1:B:733:ARG:HH22	1.69	0.58
2:C:270:ASN:HB3	2:C:273:GLU:HB2	1.86	0.58
2:C:421:GLN:NE2	2:C:451:ASP:OD1	2.37	0.58
3:D:587:GLY:HA3	3:D:591:GLY:HA2	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:702:SER:HB2	3:D:728:VAL:CG1	2.33	0.58
1:F:393:ASP:OD1	1:F:394:VAL:N	2.37	0.58
1:G:26:LEU:O	1:G:27:ILE:HD13	2.03	0.58
1:H:95:ARG:HD3	1:H:261:GLU:O	2.04	0.58
1:H:567:ARG:HG3	1:H:614:LYS:HD3	1.86	0.58
1:J:430:ILE:HG13	1:J:432:LEU:H	1.69	0.58
1:J:438:ASP:OD2	1:J:441:VAL:HG23	2.02	0.58
1:K:95:ARG:HD2	1:K:225:ARG:HH12	1.69	0.58
1:K:230:PHE:CZ	1:K:237:PRO:HB3	2.39	0.58
1:K:752:ILE:HA	1:K:755:TYR:HD1	1.68	0.58
1:A:219:MET:HE2	1:A:365:ARG:NH2	2.19	0.58
1:B:462:SER:O	1:B:463:ALA:CB	2.51	0.58
1:B:523:GLY:O	1:B:527:LEU:HG	2.03	0.58
2:C:674:PHE:O	2:C:677:LYS:HG2	2.03	0.58
3:D:430:ILE:HG13	3:D:432:LEU:H	1.69	0.58
3:D:682:PHE:CE2	3:D:690:ILE:HD11	2.39	0.58
1:E:430:ILE:HG13	1:E:432:LEU:H	1.69	0.58
1:F:587:GLY:HA3	1:F:591:GLY:HA2	1.86	0.58
1:G:601:ILE:O	1:G:605:LEU:HG	2.04	0.58
1:H:487:ARG:HH22	1:I:700:ARG:NH1	2.02	0.58
1:J:58:LEU:HD13	1:J:105:CYS:CB	2.34	0.58
1:J:147:ARG:HG2	1:J:147:ARG:HH11	1.68	0.58
1:L:752:ILE:HA	1:L:755:TYR:HD1	1.68	0.58
1:A:393:ASP:OD1	1:A:394:VAL:N	2.37	0.57
1:A:728:VAL:HG23	1:A:732:ARG:HD3	1.85	0.57
1:A:771:PHE:HE1	1:B:678:MET:HG3	1.69	0.57
2:C:462:SER:O	2:C:463:ALA:CB	2.50	0.57
2:C:587:GLY:HA3	2:C:591:GLY:HA2	1.86	0.57
1:E:613:THR:HG21	1:F:464:LEU:CD2	2.34	0.57
1:F:312:LYS:O	1:F:354:ASP:HA	2.04	0.57
1:G:230:PHE:CZ	1:G:237:PRO:HB3	2.39	0.57
1:G:318:GLY:HA2	1:L:317:HIS:CE1	2.39	0.57
1:H:317:HIS:CG	1:H:317:HIS:O	2.56	0.57
1:I:95:ARG:HD3	1:I:261:GLU:O	2.04	0.57
1:I:318:GLY:O	1:I:319:GLU:CB	2.52	0.57
1:I:394:VAL:HG12	1:I:449:MET:HB2	1.85	0.57
1:L:601:ILE:O	1:L:605:LEU:HG	2.04	0.57
1:A:517:TYR:HB2	1:A:626:PRO:HG3	1.84	0.57
1:B:312:LYS:O	1:B:354:ASP:HA	2.04	0.57
2:C:380:ILE:O	2:C:383:ILE:HG22	2.02	0.57
2:C:523:GLY:O	2:C:527:LEU:HG	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:771:PHE:CE1	1:F:678:MET:HG3	2.37	0.57
1:F:682:PHE:CE2	1:F:690:ILE:HD11	2.39	0.57
1:G:605:LEU:HD23	1:G:608:MET:CE	2.34	0.57
1:H:605:LEU:HD23	1:H:608:MET:CE	2.34	0.57
1:J:230:PHE:CZ	1:J:237:PRO:HB3	2.39	0.57
1:J:414:LEU:CD1	1:J:456:LEU:HD23	2.34	0.57
1:K:58:LEU:HD13	1:K:105:CYS:CB	2.34	0.57
1:K:95:ARG:HD3	1:K:261:GLU:O	2.04	0.57
1:A:430:ILE:HG13	1:A:432:LEU:H	1.69	0.57
1:A:594:GLY:HA2	1:B:586:ARG:C	2.25	0.57
1:B:682:PHE:CE2	1:B:690:ILE:HD11	2.39	0.57
1:E:270:ASN:HB3	1:E:273:GLU:HB2	1.85	0.57
1:G:378:LEU:CD2	1:G:382:GLN:HE22	2.17	0.57
1:I:605:LEU:HD23	1:I:608:MET:CE	2.34	0.57
1:J:318:GLY:O	1:J:319:GLU:CB	2.52	0.57
1:J:605:LEU:HD23	1:J:608:MET:CE	2.34	0.57
1:K:394:VAL:HG12	1:K:449:MET:HB2	1.85	0.57
1:L:84:MET:HE1	1:L:89:ARG:HA	1.86	0.57
1:L:378:LEU:CD2	1:L:382:GLN:HE22	2.17	0.57
1:A:587:GLY:HA3	1:A:591:GLY:HA2	1.86	0.57
2:C:206:ILE:CD1	2:C:253:LEU:HG	2.34	0.57
3:D:206:ILE:CD1	3:D:253:LEU:HG	2.34	0.57
1:E:587:GLY:HA3	1:E:591:GLY:HA2	1.86	0.57
1:E:728:VAL:HG23	1:E:732:ARG:HD3	1.85	0.57
1:F:201:VAL:HG21	1:F:253:LEU:HD11	1.85	0.57
1:G:394:VAL:HG12	1:G:449:MET:HB2	1.85	0.57
1:H:138:TYR:CD2	1:H:154:VAL:HG12	2.29	0.57
1:J:752:ILE:HA	1:J:755:TYR:HD1	1.68	0.57
1:K:274:ILE:HD11	1:K:309:ILE:CG1	2.33	0.57
1:K:502:LYS:HZ3	1:L:703:ILE:HA	1.69	0.57
1:K:586:ARG:NH2	1:K:595:GLY:O	2.24	0.57
1:L:26:LEU:O	1:L:27:ILE:HD13	2.03	0.57
1:L:71:VAL:C	1:L:72:LEU:HD12	2.25	0.57
1:L:274:ILE:HD11	1:L:309:ILE:CG1	2.33	0.57
1:L:567:ARG:HG3	1:L:614:LYS:HD3	1.86	0.57
1:A:274:ILE:HD11	1:A:309:ILE:CD1	2.35	0.57
1:B:270:ASN:HB3	1:B:273:GLU:HB2	1.85	0.57
1:B:421:GLN:NE2	1:B:451:ASP:OD1	2.36	0.57
2:C:312:LYS:O	2:C:354:ASP:HA	2.05	0.57
2:C:682:PHE:CE2	2:C:690:ILE:HD11	2.39	0.57
1:G:153:LEU:HD23	1:G:155:ARG:HE	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:696:LYS:HB2	1:L:508:MET:CE	2.34	0.57
1:H:71:VAL:C	1:H:72:LEU:HD12	2.25	0.57
1:K:329:LEU:HD21	1:K:357:LEU:CD2	2.29	0.57
1:K:430:ILE:HG13	1:K:432:LEU:H	1.69	0.57
1:K:602:ASN:HD21	1:L:548:LEU:HB2	1.70	0.57
1:L:58:LEU:HD13	1:L:105:CYS:CB	2.34	0.57
1:L:318:GLY:O	1:L:319:GLU:CB	2.52	0.57
1:A:201:VAL:HG21	1:A:253:LEU:HD11	1.85	0.57
1:B:274:ILE:HD11	1:B:309:ILE:CD1	2.35	0.57
1:B:587:GLY:HA3	1:B:591:GLY:HA2	1.86	0.57
3:D:766:ARG:HG3	1:K:756:GLU:OE2	2.04	0.57
1:G:58:LEU:HD13	1:G:105:CYS:CB	2.34	0.57
1:G:95:ARG:HD3	1:G:261:GLU:O	2.04	0.57
1:H:228:ALA:HB1	1:I:435:GLU:HA	1.86	0.57
1:I:230:PHE:CZ	1:I:237:PRO:HB3	2.39	0.57
1:L:394:VAL:HG12	1:L:449:MET:HB2	1.85	0.57
1:B:430:ILE:HG13	1:B:432:LEU:H	1.69	0.57
1:B:728:VAL:HG23	1:B:732:ARG:HD3	1.85	0.57
2:C:393:ASP:OD1	2:C:394:VAL:N	2.37	0.57
2:C:430:ILE:HG13	2:C:432:LEU:H	1.69	0.57
2:C:613:THR:HG21	3:D:464:LEU:CD2	2.34	0.57
1:I:430:ILE:HG13	1:I:432:LEU:H	1.69	0.57
1:J:772:ARG:NH2	1:K:741:ARG:HH22	2.03	0.57
1:K:153:LEU:HD22	1:K:198:LEU:CD2	2.23	0.57
1:K:601:ILE:HG23	1:K:633:ILE:HD11	1.84	0.57
1:A:270:ASN:HB3	1:A:273:GLU:HB2	1.86	0.57
1:A:312:LYS:O	1:A:354:ASP:HA	2.04	0.57
1:A:506:PHE:CD2	1:B:699:ILE:HG12	2.40	0.57
1:B:206:ILE:CD1	1:B:253:LEU:HG	2.34	0.57
1:B:753:ARG:NH1	1:G:761:THR:HA	2.20	0.57
3:D:327:GLN:NE2	3:D:331:LEU:HD11	2.20	0.57
3:D:393:ASP:OD1	3:D:394:VAL:N	2.37	0.57
1:E:274:ILE:HD11	1:E:309:ILE:CD1	2.35	0.57
1:H:378:LEU:CD2	1:H:382:GLN:HE22	2.17	0.57
1:J:567:ARG:HG3	1:J:614:LYS:HD3	1.86	0.57
1:K:233:ILE:CD1	1:L:158:MET:HB2	2.20	0.57
1:K:491:GLU:OE1	1:L:700:ARG:HD3	2.04	0.57
1:L:706:GLU:OE1	1:L:706:GLU:C	2.43	0.57
1:B:360:PHE:HZ	2:C:462:SER:OG	1.86	0.57
1:B:393:ASP:OD1	1:B:394:VAL:N	2.37	0.57
1:B:495:TYR:HE1	2:C:703:ILE:HG21	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:274:ILE:HD11	3:D:309:ILE:CD1	2.35	0.57
3:D:312:LYS:O	3:D:354:ASP:HA	2.04	0.57
1:G:71:VAL:C	1:G:72:LEU:HD12	2.25	0.57
1:H:153:LEU:HD23	1:H:155:ARG:HE	1.69	0.57
1:H:230:PHE:CZ	1:H:237:PRO:HB3	2.39	0.57
1:H:318:GLY:O	1:H:319:GLU:CB	2.52	0.57
1:H:651:LYS:HD2	1:H:651:LYS:N	2.20	0.57
1:J:502:LYS:NZ	1:K:703:ILE:HA	2.19	0.57
1:J:706:GLU:C	1:J:706:GLU:OE1	2.43	0.57
1:K:153:LEU:CD2	1:K:155:ARG:HE	2.18	0.57
1:K:156:GLY:HA2	1:K:389:LYS:HZ2	1.70	0.57
1:K:706:GLU:C	1:K:706:GLU:OE1	2.43	0.57
1:B:327:GLN:NE2	1:B:331:LEU:HD11	2.20	0.57
1:B:708:ARG:O	1:B:708:ARG:HG2	1.98	0.57
2:C:274:ILE:HD11	2:C:309:ILE:CD1	2.35	0.57
2:C:728:VAL:HG23	2:C:732:ARG:HD3	1.85	0.57
1:E:330:THR:HG21	1:F:273:GLU:HA	1.86	0.57
1:G:219:MET:HE1	1:G:365:ARG:HD3	1.83	0.57
1:G:318:GLY:O	1:G:319:GLU:CB	2.52	0.57
1:G:630:ASP:OD1	1:G:631:PRO:HD2	2.05	0.57
1:H:58:LEU:HD13	1:H:105:CYS:CB	2.34	0.57
1:I:153:LEU:HD23	1:I:155:ARG:HE	1.70	0.57
1:J:153:LEU:CD2	1:J:155:ARG:HE	2.18	0.57
1:K:318:GLY:O	1:K:319:GLU:CB	2.52	0.57
1:K:508:MET:CE	1:L:696:LYS:HB2	2.34	0.57
1:L:605:LEU:HD23	1:L:608:MET:CE	2.35	0.57
1:E:312:LYS:O	1:E:354:ASP:HA	2.05	0.56
1:F:274:ILE:HD11	1:F:309:ILE:CD1	2.35	0.56
1:G:115:HIS:HB2	1:G:167:GLU:OE1	2.06	0.56
1:H:773:PHE:HE2	1:I:736:PHE:HB3	1.70	0.56
1:I:567:ARG:HG3	1:I:614:LYS:HD3	1.86	0.56
1:I:586:ARG:NH2	1:I:595:GLY:O	2.24	0.56
1:J:95:ARG:HD3	1:J:261:GLU:O	2.04	0.56
1:K:378:LEU:CD2	1:K:382:GLN:HE22	2.17	0.56
1:L:627:ASP:OD1	1:L:628:ILE:N	2.38	0.56
1:L:697:LEU:HD13	1:L:738:GLU:CB	2.29	0.56
1:A:206:ILE:HD13	1:A:253:LEU:HG	1.87	0.56
1:A:327:GLN:NE2	1:A:331:LEU:HD11	2.20	0.56
1:A:516:PHE:N	1:A:621:GLY:O	2.36	0.56
3:D:613:THR:CG2	1:E:464:LEU:HD21	2.35	0.56
3:D:708:ARG:O	3:D:708:ARG:HG2	1.98	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:270:ASN:HB3	1:F:273:GLU:HB2	1.86	0.56
1:G:224:LEU:CD2	1:G:298:PRO:HB2	2.36	0.56
1:H:28:VAL:HG12	1:H:96:LEU:HA	1.87	0.56
1:H:627:ASP:OD1	1:H:628:ILE:N	2.38	0.56
1:I:115:HIS:HB2	1:I:167:GLU:OE1	2.06	0.56
1:I:414:LEU:CD1	1:I:456:LEU:HD23	2.34	0.56
1:I:630:ASP:OD1	1:I:631:PRO:HD2	2.05	0.56
1:I:651:LYS:N	1:I:651:LYS:HD2	2.20	0.56
1:J:84:MET:HE1	1:J:89:ARG:HA	1.86	0.56
1:A:495:TYR:CE1	1:B:703:ILE:HG21	2.40	0.56
2:C:673:GLU:OE1	2:C:673:GLU:N	2.39	0.56
1:G:651:LYS:HD2	1:G:651:LYS:N	2.20	0.56
1:G:706:GLU:C	1:G:706:GLU:OE1	2.43	0.56
1:H:224:LEU:CD2	1:H:298:PRO:HB2	2.36	0.56
1:H:442:MET:O	1:H:445:LEU:HG	2.06	0.56
1:H:706:GLU:C	1:H:706:GLU:OE1	2.43	0.56
1:I:442:MET:O	1:I:445:LEU:HG	2.06	0.56
1:I:627:ASP:OD1	1:I:628:ILE:N	2.38	0.56
1:I:706:GLU:OE1	1:I:706:GLU:C	2.43	0.56
1:J:71:VAL:C	1:J:72:LEU:HD12	2.25	0.56
1:J:764:GLN:CG	1:K:742:PHE:HA	2.35	0.56
1:J:771:PHE:CE1	1:K:740:MET:HG3	2.40	0.56
1:K:605:LEU:HD23	1:K:608:MET:CE	2.34	0.56
1:L:224:LEU:CD2	1:L:298:PRO:HB2	2.36	0.56
1:L:316:THR:CG2	1:L:321:GLU:HG2	2.22	0.56
1:L:651:LYS:N	1:L:651:LYS:HD2	2.20	0.56
1:A:286:LEU:HD23	1:A:327:GLN:OE1	2.06	0.56
1:A:465:ARG:NH2	1:F:607:GLU:OE1	2.34	0.56
3:D:673:GLU:N	3:D:673:GLU:OE1	2.39	0.56
1:G:403:THR:HG22	1:G:406:HIS:HB2	1.88	0.56
1:G:410:ASP:OD2	1:G:462:SER:OG	2.22	0.56
1:G:414:LEU:CD1	1:G:456:LEU:HD23	2.34	0.56
1:I:378:LEU:CD2	1:I:382:GLN:HE22	2.17	0.56
1:I:636:PRO:HA	1:I:640:ASP:OD2	2.06	0.56
1:J:440:GLU:OE1	1:J:440:GLU:N	2.33	0.56
1:L:153:LEU:CD2	1:L:155:ARG:HE	2.18	0.56
1:E:673:GLU:OE1	1:E:673:GLU:N	2.39	0.56
1:F:497:VAL:O	1:F:500:PRO:HD3	2.06	0.56
1:F:710:GLU:O	1:F:713:ARG:N	2.39	0.56
1:G:442:MET:O	1:G:445:LEU:HG	2.06	0.56
1:H:313:ARG:NH2	1:H:329:LEU:HD12	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:394:VAL:HG12	1:H:449:MET:HB2	1.85	0.56
1:I:224:LEU:CD2	1:I:298:PRO:HB2	2.36	0.56
1:K:105:CYS:HB3	1:K:107:ASP:OD1	2.06	0.56
1:K:515:LEU:HD11	1:K:629:ILE:HD13	1.88	0.56
1:K:567:ARG:HG3	1:K:614:LYS:HD3	1.86	0.56
1:K:590:ILE:H	1:K:590:ILE:HD12	1.70	0.56
1:K:627:ASP:OD1	1:K:628:ILE:N	2.39	0.56
1:L:153:LEU:HD23	1:L:155:ARG:HE	1.70	0.56
1:A:497:VAL:O	1:A:500:PRO:HD3	2.06	0.56
1:A:522:CYS:SG	1:A:647:LEU:HD23	2.46	0.56
1:B:653:ARG:HG2	1:B:687:LEU:HD11	1.88	0.56
3:D:206:ILE:HD13	3:D:253:LEU:HG	1.87	0.56
1:G:607:GLU:OE1	1:H:465:ARG:NH2	2.37	0.56
1:H:414:LEU:CD1	1:H:456:LEU:HD23	2.34	0.56
1:I:58:LEU:HD13	1:I:105:CYS:CB	2.34	0.56
1:J:28:VAL:HG12	1:J:96:LEU:HA	1.87	0.56
1:J:115:HIS:HB2	1:J:167:GLU:OE1	2.06	0.56
1:J:153:LEU:HD23	1:J:155:ARG:HE	1.70	0.56
1:J:378:LEU:CD2	1:J:382:GLN:HE22	2.17	0.56
1:J:403:THR:HG22	1:J:406:HIS:HB2	1.88	0.56
1:J:442:MET:O	1:J:445:LEU:HG	2.06	0.56
1:K:71:VAL:C	1:K:72:LEU:HD12	2.25	0.56
1:K:224:LEU:CD2	1:K:298:PRO:HB2	2.36	0.56
1:L:430:ILE:HG13	1:L:432:LEU:H	1.69	0.56
1:B:522:CYS:SG	1:B:647:LEU:HD23	2.46	0.56
1:B:538:ASN:O	1:B:572:CYS:HA	2.06	0.56
2:C:219:MET:HE2	2:C:365:ARG:NH2	2.19	0.56
2:C:528:ALA:O	2:C:531:ILE:HG22	2.06	0.56
2:C:653:ARG:HG2	2:C:687:LEU:HD11	1.88	0.56
3:D:497:VAL:O	3:D:500:PRO:HD3	2.06	0.56
3:D:647:LEU:HD11	3:D:752:ILE:HD11	1.88	0.56
1:F:476:TRP:CD2	1:F:486:LYS:HE2	2.41	0.56
1:G:28:VAL:HG12	1:G:96:LEU:HA	1.87	0.56
1:H:403:THR:HG22	1:H:406:HIS:HB2	1.88	0.56
1:H:430:ILE:HG13	1:H:432:LEU:H	1.69	0.56
1:H:630:ASP:OD1	1:H:631:PRO:HD2	2.05	0.56
1:H:636:PRO:HA	1:H:640:ASP:OD2	2.05	0.56
1:I:28:VAL:HG12	1:I:96:LEU:HA	1.88	0.56
1:I:57:VAL:HG21	1:I:71:VAL:HG21	1.88	0.56
1:I:153:LEU:CD2	1:I:155:ARG:HE	2.18	0.56
1:I:313:ARG:NH2	1:I:329:LEU:HD12	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:224:LEU:CD2	1:J:298:PRO:HB2	2.36	0.56
1:J:627:ASP:OD1	1:J:628:ILE:N	2.38	0.56
1:K:316:THR:CG2	1:K:321:GLU:HG2	2.22	0.56
1:K:630:ASP:OD1	1:K:631:PRO:HD2	2.05	0.56
1:A:528:ALA:O	1:A:531:ILE:HG22	2.06	0.56
2:C:206:ILE:HD13	2:C:253:LEU:HG	1.87	0.56
2:C:286:LEU:HD23	2:C:327:GLN:OE1	2.06	0.56
2:C:516:PHE:N	2:C:621:GLY:O	2.36	0.56
2:C:613:THR:CG2	3:D:464:LEU:HD21	2.36	0.56
1:E:206:ILE:HD13	1:E:253:LEU:HG	1.87	0.56
1:G:153:LEU:CD2	1:G:155:ARG:HE	2.18	0.56
1:H:57:VAL:HG21	1:H:71:VAL:HG21	1.88	0.56
1:I:403:THR:HG22	1:I:406:HIS:HB2	1.88	0.56
1:J:590:ILE:H	1:J:590:ILE:HD12	1.70	0.56
1:K:115:HIS:HB2	1:K:167:GLU:OE1	2.05	0.56
1:K:153:LEU:HD23	1:K:155:ARG:HE	1.70	0.56
1:K:403:THR:HG22	1:K:406:HIS:HB2	1.88	0.56
1:L:403:THR:HG22	1:L:406:HIS:HB2	1.88	0.56
1:L:630:ASP:OD1	1:L:631:PRO:HD2	2.05	0.56
1:A:273:GLU:HA	1:F:330:THR:HG21	1.88	0.56
1:B:476:TRP:CD2	1:B:486:LYS:HE2	2.41	0.56
2:C:407:VAL:HG12	2:C:408:GLY:N	2.21	0.56
3:D:516:PHE:N	3:D:621:GLY:O	2.36	0.56
3:D:528:ALA:O	3:D:531:ILE:HG22	2.06	0.56
3:D:760:GLN:CB	1:K:760:GLN:HE22	2.19	0.56
1:F:528:ALA:O	1:F:531:ILE:HG22	2.06	0.56
1:H:115:HIS:HB2	1:H:167:GLU:OE1	2.06	0.56
1:H:221:GLU:O	1:H:225:ARG:N	2.36	0.56
1:I:765:SER:O	1:I:766:ARG:HD3	2.06	0.56
1:J:630:ASP:OD1	1:J:631:PRO:HD2	2.05	0.56
1:K:317:HIS:NE2	1:L:317:HIS:CD2	2.73	0.56
1:A:407:VAL:HG12	1:A:408:GLY:N	2.21	0.56
2:C:327:GLN:NE2	2:C:331:LEU:HD11	2.20	0.56
2:C:538:ASN:O	2:C:572:CYS:HA	2.06	0.56
1:E:647:LEU:HD11	1:E:752:ILE:HD11	1.88	0.56
1:G:590:ILE:H	1:G:590:ILE:HD12	1.71	0.56
1:I:71:VAL:C	1:I:72:LEU:HD12	2.25	0.56
1:I:105:CYS:HB3	1:I:107:ASP:OD1	2.06	0.56
1:J:651:LYS:HD2	1:J:651:LYS:N	2.20	0.56
1:K:697:LEU:HD13	1:K:738:GLU:CB	2.29	0.56
1:L:115:HIS:HB2	1:L:167:GLU:OE1	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:476:TRP:CD2	1:A:486:LYS:HE2	2.41	0.55
1:B:508:MET:HE3	2:C:696:LYS:HB2	1.88	0.55
1:B:673:GLU:OE1	1:B:673:GLU:N	2.39	0.55
1:B:751:ASP:O	1:B:755:TYR:CD1	2.52	0.55
2:C:476:TRP:CD2	2:C:486:LYS:HE2	2.41	0.55
2:C:522:CYS:SG	2:C:647:LEU:HD23	2.46	0.55
2:C:647:LEU:HD11	2:C:752:ILE:HD11	1.88	0.55
2:C:745:ARG:NH1	1:G:745:ARG:HH12	2.04	0.55
3:D:607:GLU:OE1	1:E:465:ARG:NH2	2.39	0.55
1:F:336:LYS:HG3	1:F:338:ARG:HB2	1.89	0.55
1:F:407:VAL:HG12	1:F:408:GLY:N	2.21	0.55
1:F:522:CYS:SG	1:F:647:LEU:HD23	2.46	0.55
1:I:728:VAL:HG13	1:I:728:VAL:O	2.06	0.55
1:J:515:LEU:HD11	1:J:629:ILE:HD13	1.88	0.55
1:J:728:VAL:O	1:J:728:VAL:HG13	2.06	0.55
1:K:651:LYS:N	1:K:651:LYS:HD2	2.20	0.55
1:L:105:CYS:HB3	1:L:107:ASP:OD1	2.06	0.55
1:A:556:GLU:HB2	1:A:603:GLN:HG3	1.88	0.55
3:D:286:LEU:HD23	3:D:327:GLN:OE1	2.06	0.55
1:G:430:ILE:HG13	1:G:432:LEU:H	1.69	0.55
1:I:108:VAL:HG22	1:I:175:ILE:CG2	2.37	0.55
1:J:489:LEU:HD21	1:J:516:PHE:HZ	1.71	0.55
1:J:636:PRO:HA	1:J:640:ASP:OD2	2.06	0.55
1:L:515:LEU:HD11	1:L:629:ILE:HD13	1.88	0.55
1:L:636:PRO:HA	1:L:640:ASP:OD2	2.05	0.55
1:B:286:LEU:HD23	1:B:327:GLN:OE1	2.06	0.55
1:B:407:VAL:HG12	1:B:408:GLY:N	2.21	0.55
1:B:528:ALA:O	1:B:531:ILE:HG22	2.06	0.55
2:C:336:LYS:HG3	2:C:338:ARG:HB2	1.89	0.55
3:D:219:MET:HE2	3:D:365:ARG:NH2	2.17	0.55
3:D:556:GLU:HB2	3:D:603:GLN:HG3	1.88	0.55
1:E:613:THR:CG2	1:F:464:LEU:HD21	2.36	0.55
1:G:105:CYS:HB3	1:G:107:ASP:OD1	2.06	0.55
1:G:221:GLU:O	1:G:225:ARG:N	2.36	0.55
1:G:317:HIS:CE1	1:H:318:GLY:HA2	2.41	0.55
1:G:627:ASP:OD1	1:G:628:ILE:N	2.38	0.55
1:H:153:LEU:CD2	1:H:155:ARG:HE	2.18	0.55
1:H:360:PHE:CE1	1:I:410:ASP:OD1	2.59	0.55
1:I:317:HIS:HE1	1:J:318:GLY:HA2	1.71	0.55
1:J:244:TYR:HA	1:J:347:THR:O	2.07	0.55
1:L:442:MET:O	1:L:445:LEU:HG	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:406:HIS:HD2	2:C:461:PRO:CB	2.04	0.55
2:C:682:PHE:CE2	2:C:743:ALA:HB1	2.42	0.55
3:D:336:LYS:HG3	3:D:338:ARG:HB2	1.89	0.55
1:E:476:TRP:CD2	1:E:486:LYS:HE2	2.41	0.55
1:E:497:VAL:O	1:E:500:PRO:HD3	2.06	0.55
1:E:522:CYS:SG	1:E:647:LEU:HD23	2.46	0.55
1:E:538:ASN:O	1:E:572:CYS:HA	2.06	0.55
1:F:206:ILE:HD13	1:F:253:LEU:HG	1.87	0.55
1:G:636:PRO:HA	1:G:640:ASP:OD2	2.06	0.55
1:H:105:CYS:HB3	1:H:107:ASP:OD1	2.06	0.55
1:H:360:PHE:HE1	1:I:410:ASP:OD1	1.90	0.55
1:I:228:ALA:HB3	1:J:433:GLU:OE2	2.07	0.55
1:J:57:VAL:HG21	1:J:71:VAL:HG21	1.88	0.55
1:L:590:ILE:H	1:L:590:ILE:HD12	1.70	0.55
1:L:765:SER:O	1:L:766:ARG:HD3	2.06	0.55
1:B:682:PHE:CE2	1:B:743:ALA:HB1	2.42	0.55
1:B:775:SER:HB3	2:C:733:ARG:HH22	1.71	0.55
2:C:497:VAL:O	2:C:500:PRO:HD3	2.06	0.55
3:D:522:CYS:SG	3:D:647:LEU:HD23	2.46	0.55
1:E:556:GLU:HB2	1:E:603:GLN:HG3	1.88	0.55
1:F:327:GLN:NE2	1:F:331:LEU:HD11	2.20	0.55
1:G:313:ARG:NH2	1:G:329:LEU:HD12	2.21	0.55
1:H:765:SER:O	1:H:766:ARG:HD3	2.06	0.55
1:I:440:GLU:OE1	1:I:440:GLU:N	2.33	0.55
1:I:489:LEU:HD21	1:I:516:PHE:HZ	1.72	0.55
1:J:108:VAL:HG22	1:J:175:ILE:CG2	2.37	0.55
1:K:28:VAL:HG12	1:K:96:LEU:HA	1.88	0.55
1:K:489:LEU:HD21	1:K:516:PHE:HZ	1.72	0.55
1:K:773:PHE:CB	1:L:733:ARG:NH2	2.69	0.55
1:A:627:ASP:OD1	1:A:628:ILE:N	2.40	0.55
1:B:206:ILE:HD13	1:B:253:LEU:HG	1.87	0.55
2:C:627:ASP:OD1	2:C:628:ILE:N	2.40	0.55
3:D:538:ASN:O	3:D:572:CYS:HA	2.06	0.55
1:E:764:GLN:OE1	1:F:742:PHE:CD2	2.60	0.55
1:F:627:ASP:OD1	1:F:628:ILE:N	2.40	0.55
1:F:673:GLU:OE1	1:F:673:GLU:N	2.39	0.55
1:F:682:PHE:CE2	1:F:743:ALA:HB1	2.42	0.55
1:G:515:LEU:HD11	1:G:629:ILE:HD13	1.88	0.55
1:G:742:PHE:HA	1:L:764:GLN:CG	2.36	0.55
1:H:728:VAL:O	1:H:728:VAL:HG13	2.06	0.55
1:I:244:TYR:HA	1:I:347:THR:O	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:582:ILE:CD1	1:J:600:VAL:HB	2.37	0.55
1:K:51:LEU:CD1	1:K:57:VAL:HG22	2.37	0.55
2:C:775:SER:HB3	3:D:733:ARG:HH22	1.72	0.55
3:D:213:LEU:HD13	3:D:254:ILE:HG23	1.89	0.55
1:E:653:ARG:HG2	1:E:687:LEU:HD11	1.88	0.55
1:E:682:PHE:CE2	1:E:743:ALA:HB1	2.42	0.55
1:F:286:LEU:HD23	1:F:327:GLN:OE1	2.06	0.55
1:G:465:ARG:NH2	1:L:607:GLU:OE1	2.40	0.55
1:G:765:SER:O	1:G:766:ARG:HD3	2.06	0.55
1:H:108:VAL:HG22	1:H:175:ILE:CG2	2.37	0.55
1:H:399:VAL:HG23	1:H:456:LEU:HD21	1.89	0.55
1:I:59:LEU:HD23	1:I:102:ILE:HG13	1.89	0.55
1:I:119:ILE:HG22	1:I:162:GLU:HG3	1.89	0.55
1:I:156:GLY:HA2	1:I:389:LYS:HZ2	1.71	0.55
1:I:508:MET:CE	1:J:696:LYS:HB2	2.36	0.55
1:K:158:MET:CG	1:K:388:MET:HA	2.37	0.55
1:K:244:TYR:HA	1:K:347:THR:O	2.07	0.55
1:K:728:VAL:O	1:K:728:VAL:HG13	2.06	0.55
1:L:244:TYR:HA	1:L:347:THR:O	2.07	0.55
1:L:582:ILE:CD1	1:L:600:VAL:HB	2.37	0.55
1:A:327:GLN:HA	1:B:276:SER:CB	2.36	0.55
1:B:613:THR:HG21	2:C:464:LEU:CD1	2.37	0.55
2:C:556:GLU:HB2	2:C:603:GLN:HG3	1.88	0.55
1:E:407:VAL:HG12	1:E:408:GLY:N	2.21	0.55
1:F:538:ASN:O	1:F:572:CYS:HA	2.06	0.55
1:F:611:MET:HG3	1:F:612:SER:N	2.16	0.55
1:F:653:ARG:HG2	1:F:687:LEU:HD11	1.88	0.55
1:G:57:VAL:HG21	1:G:71:VAL:HG21	1.88	0.55
1:G:489:LEU:HD21	1:G:516:PHE:HZ	1.72	0.55
1:G:582:ILE:CD1	1:G:600:VAL:HB	2.37	0.55
1:G:728:VAL:HG13	1:G:728:VAL:O	2.06	0.55
1:H:119:ILE:HG22	1:H:162:GLU:HG3	1.88	0.55
1:J:487:ARG:HH22	1:K:700:ARG:HH11	1.54	0.55
1:J:765:SER:O	1:J:766:ARG:HD3	2.06	0.55
1:K:59:LEU:HD23	1:K:102:ILE:HG13	1.89	0.55
1:L:59:LEU:HD23	1:L:102:ILE:HG13	1.89	0.55
1:L:316:THR:HG21	1:L:321:GLU:CG	2.23	0.55
1:A:336:LYS:HG3	1:A:338:ARG:HB2	1.89	0.55
1:A:751:ASP:O	1:A:755:TYR:CD1	2.52	0.55
1:B:556:GLU:HB2	1:B:603:GLN:HG3	1.88	0.55
1:B:710:GLU:OE2	1:B:713:ARG:NH2	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:476:TRP:CD2	3:D:486:LYS:HE2	2.41	0.55
3:D:682:PHE:CE2	3:D:743:ALA:HB1	2.42	0.55
1:F:556:GLU:HB2	1:F:603:GLN:HG3	1.88	0.55
1:G:51:LEU:HD11	1:G:104:PRO:CA	2.37	0.55
1:H:168:THR:HG22	1:H:170:PRO:HD2	1.89	0.55
1:J:51:LEU:CD1	1:J:57:VAL:HG22	2.37	0.55
1:J:105:CYS:HB3	1:J:107:ASP:OD1	2.06	0.55
1:J:313:ARG:NH2	1:J:329:LEU:HD12	2.21	0.55
1:J:602:ASN:ND2	1:K:548:LEU:CB	2.70	0.55
1:K:582:ILE:CD1	1:K:600:VAL:HB	2.37	0.55
1:K:765:SER:O	1:K:766:ARG:HD3	2.06	0.55
1:L:57:VAL:HG21	1:L:71:VAL:HG21	1.88	0.55
1:L:108:VAL:HG22	1:L:175:ILE:CG2	2.37	0.55
1:L:313:ARG:NH2	1:L:329:LEU:HD12	2.21	0.55
1:L:378:LEU:HD23	1:L:382:GLN:OE1	2.07	0.55
1:A:647:LEU:HD11	1:A:752:ILE:HD11	1.88	0.55
1:A:653:ARG:HG2	1:A:687:LEU:HD11	1.88	0.55
1:B:497:VAL:O	1:B:500:PRO:HD3	2.06	0.55
1:G:41:LEU:HD12	1:G:71:VAL:HG13	1.89	0.55
1:G:399:VAL:HG23	1:G:456:LEU:HD21	1.89	0.55
1:H:40:SER:O	1:H:82:ILE:HG23	2.07	0.55
1:H:51:LEU:CD1	1:H:57:VAL:HG22	2.37	0.55
1:H:287:ARG:HG2	1:H:291:GLU:OE2	2.07	0.55
1:I:399:VAL:HG23	1:I:456:LEU:HD21	1.89	0.55
1:I:590:ILE:H	1:I:590:ILE:HD12	1.71	0.55
1:I:602:ASN:ND2	1:J:548:LEU:CB	2.69	0.55
1:J:59:LEU:HD23	1:J:102:ILE:HG13	1.89	0.55
1:J:119:ILE:HG22	1:J:162:GLU:HG3	1.89	0.55
1:K:158:MET:HG2	1:K:388:MET:HA	1.88	0.55
1:K:378:LEU:HD23	1:K:382:GLN:OE1	2.07	0.55
1:K:636:PRO:HA	1:K:640:ASP:OD2	2.05	0.55
1:L:28:VAL:HG12	1:L:96:LEU:HA	1.87	0.55
1:L:206:ILE:HD13	1:L:254:ILE:HA	1.89	0.55
3:D:403:THR:O	3:D:403:THR:HG22	2.08	0.54
1:E:213:LEU:HD13	1:E:254:ILE:HG23	1.89	0.54
1:G:84:MET:HE1	1:G:89:ARG:HA	1.88	0.54
1:G:378:LEU:HD23	1:G:382:GLN:OE1	2.07	0.54
1:G:436:THR:HA	1:L:232:ALA:HB2	1.87	0.54
1:H:233:ILE:HD13	1:I:442:MET:SD	2.47	0.54
1:H:632:ALA:O	1:H:638:ARG:NH1	2.40	0.54
1:I:314:GLU:C	1:I:316:THR:H	2.11	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:632:ALA:O	1:I:638:ARG:NH1	2.40	0.54
1:J:378:LEU:HD23	1:J:382:GLN:OE1	2.07	0.54
1:K:108:VAL:HG22	1:K:175:ILE:CG2	2.37	0.54
1:A:611:MET:HG3	1:A:612:SER:N	2.16	0.54
1:B:408:GLY:HA3	4:B:801:ADP:C8	2.43	0.54
2:C:213:LEU:HD13	2:C:254:ILE:HG23	1.89	0.54
3:D:407:VAL:HG12	3:D:408:GLY:N	2.21	0.54
3:D:627:ASP:OD1	3:D:628:ILE:N	2.40	0.54
1:E:219:MET:HE2	1:E:365:ARG:NH2	2.19	0.54
1:E:327:GLN:NE2	1:E:331:LEU:HD11	2.20	0.54
1:E:528:ALA:O	1:E:531:ILE:HG22	2.06	0.54
1:E:627:ASP:OD1	1:E:628:ILE:N	2.40	0.54
1:E:753:ARG:NH1	1:J:761:THR:HA	2.22	0.54
1:F:286:LEU:HD21	1:F:328:LEU:CD1	2.35	0.54
1:F:482:LEU:CD1	1:F:527:LEU:HD11	2.37	0.54
1:F:647:LEU:HD11	1:F:752:ILE:HD11	1.88	0.54
1:G:108:VAL:HG22	1:G:175:ILE:CG2	2.37	0.54
1:H:41:LEU:HD12	1:H:71:VAL:HG13	1.90	0.54
1:H:244:TYR:HA	1:H:347:THR:O	2.07	0.54
1:H:590:ILE:HD12	1:H:590:ILE:H	1.71	0.54
1:H:697:LEU:HD23	1:H:700:ARG:NH2	2.23	0.54
1:I:40:SER:O	1:I:82:ILE:HG23	2.07	0.54
1:I:158:MET:CG	1:I:388:MET:HA	2.37	0.54
1:I:582:ILE:CD1	1:I:600:VAL:HB	2.37	0.54
1:K:442:MET:O	1:K:445:LEU:HG	2.06	0.54
1:K:632:ALA:O	1:K:638:ARG:NH1	2.40	0.54
1:A:764:GLN:OE1	1:B:742:PHE:CD2	2.61	0.54
1:B:516:PHE:N	1:B:621:GLY:O	2.36	0.54
2:C:463:ALA:HB1	2:C:466:GLU:HG2	1.89	0.54
3:D:653:ARG:HG2	3:D:687:LEU:HD11	1.88	0.54
1:F:708:ARG:HG3	1:F:708:ARG:NH1	2.22	0.54
1:G:119:ILE:HG22	1:G:162:GLU:HG3	1.89	0.54
1:G:310:ALA:HB2	1:G:328:LEU:HD23	1.89	0.54
1:G:329:LEU:HD21	1:G:357:LEU:CD2	2.29	0.54
1:G:602:ASN:ND2	1:H:548:LEU:CB	2.70	0.54
1:G:773:PHE:CE2	1:H:736:PHE:HB3	2.42	0.54
1:H:489:LEU:HD21	1:H:516:PHE:HZ	1.72	0.54
1:I:378:LEU:HD23	1:I:382:GLN:OE1	2.07	0.54
1:I:515:LEU:HD11	1:I:629:ILE:HD13	1.88	0.54
1:I:697:LEU:HD23	1:I:700:ARG:NH2	2.23	0.54
1:I:774:PRO:HD3	1:J:674:PHE:CD2	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:40:SER:O	1:J:82:ILE:HG23	2.07	0.54
1:J:206:ILE:HD13	1:J:254:ILE:HA	1.89	0.54
1:J:399:VAL:HG23	1:J:456:LEU:HD21	1.89	0.54
1:J:632:ALA:O	1:J:638:ARG:NH1	2.40	0.54
1:K:410:ASP:OD2	1:K:462:SER:OG	2.22	0.54
1:K:414:LEU:HD11	1:K:456:LEU:CD2	2.36	0.54
1:L:489:LEU:HD21	1:L:516:PHE:HZ	1.72	0.54
1:L:728:VAL:HG13	1:L:728:VAL:O	2.06	0.54
1:A:482:LEU:CD1	1:A:527:LEU:HD11	2.37	0.54
1:A:682:PHE:CE2	1:A:743:ALA:HB1	2.42	0.54
1:B:647:LEU:HD11	1:B:752:ILE:HD11	1.88	0.54
1:G:158:MET:CG	1:G:388:MET:HA	2.37	0.54
1:H:59:LEU:HD23	1:H:102:ILE:HG13	1.89	0.54
1:H:626:PRO:O	1:H:629:ILE:HG22	2.08	0.54
1:K:313:ARG:NH2	1:K:329:LEU:HD12	2.21	0.54
1:L:51:LEU:HD11	1:L:104:PRO:CA	2.37	0.54
1:L:158:MET:HG2	1:L:388:MET:HA	1.89	0.54
1:L:287:ARG:HG2	1:L:291:GLU:OE2	2.07	0.54
1:L:414:LEU:CD1	1:L:456:LEU:HD23	2.34	0.54
1:L:632:ALA:O	1:L:638:ARG:NH1	2.40	0.54
1:A:408:GLY:HA3	4:A:801:ADP:C8	2.43	0.54
2:C:477:GLU:OE1	2:C:477:GLU:HA	2.08	0.54
3:D:775:SER:HB3	1:E:733:ARG:HH22	1.73	0.54
1:E:286:LEU:HD23	1:E:327:GLN:OE1	2.06	0.54
1:E:336:LYS:HG3	1:E:338:ARG:HB2	1.89	0.54
1:G:40:SER:O	1:G:82:ILE:HG23	2.07	0.54
1:H:51:LEU:HD11	1:H:104:PRO:CA	2.37	0.54
1:H:233:ILE:CD1	1:I:158:MET:HB2	2.30	0.54
1:H:310:ALA:HB2	1:H:328:LEU:HD23	1.89	0.54
1:H:378:LEU:HD23	1:H:382:GLN:OE1	2.08	0.54
1:H:515:LEU:HD11	1:H:629:ILE:HD13	1.88	0.54
1:I:51:LEU:CD1	1:I:57:VAL:HG22	2.37	0.54
1:I:480:GLY:HA3	1:I:655:ALA:HB3	1.90	0.54
1:I:502:LYS:NZ	1:J:706:GLU:HG3	2.21	0.54
1:K:40:SER:O	1:K:82:ILE:HG23	2.07	0.54
1:K:626:PRO:O	1:K:629:ILE:HG22	2.08	0.54
1:L:414:LEU:HD11	1:L:456:LEU:CD2	2.36	0.54
1:A:538:ASN:O	1:A:572:CYS:HA	2.06	0.54
1:B:611:MET:HG3	1:B:612:SER:N	2.16	0.54
1:B:627:ASP:OD1	1:B:628:ILE:N	2.40	0.54
1:E:403:THR:O	1:E:403:THR:HG22	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:477:GLU:HA	1:E:477:GLU:OE1	2.08	0.54
1:E:482:LEU:CD1	1:E:527:LEU:HD11	2.37	0.54
1:G:158:MET:HG2	1:G:388:MET:HA	1.89	0.54
1:G:244:TYR:HA	1:G:347:THR:O	2.07	0.54
1:G:632:ALA:O	1:G:638:ARG:NH1	2.40	0.54
1:H:480:GLY:HA3	1:H:655:ALA:HB3	1.90	0.54
1:I:206:ILE:HD13	1:I:254:ILE:HA	1.89	0.54
1:I:626:PRO:O	1:I:629:ILE:HG22	2.08	0.54
1:J:168:THR:HG22	1:J:170:PRO:HD2	1.89	0.54
1:J:626:PRO:O	1:J:629:ILE:HG22	2.08	0.54
1:J:697:LEU:HD23	1:J:700:ARG:NH2	2.23	0.54
1:K:206:ILE:HD13	1:K:254:ILE:HA	1.89	0.54
1:L:461:PRO:O	1:L:464:LEU:HD22	2.08	0.54
1:E:775:SER:HB3	1:F:733:ARG:NH2	2.22	0.54
1:F:408:GLY:HA3	4:F:801:ADP:C8	2.43	0.54
1:F:477:GLU:OE1	1:F:477:GLU:HA	2.08	0.54
1:F:760:GLN:HG2	1:I:760:GLN:HE22	1.72	0.54
1:G:206:ILE:HD13	1:G:254:ILE:HA	1.89	0.54
1:G:586:ARG:NH2	1:G:595:GLY:O	2.24	0.54
1:H:158:MET:CG	1:H:388:MET:HA	2.37	0.54
1:H:158:MET:HG2	1:H:388:MET:HA	1.88	0.54
1:H:582:ILE:CD1	1:H:600:VAL:HB	2.37	0.54
1:I:168:THR:HG22	1:I:170:PRO:HD2	1.89	0.54
1:I:221:GLU:O	1:I:225:ARG:N	2.36	0.54
1:J:158:MET:CG	1:J:388:MET:HA	2.37	0.54
1:J:414:LEU:HD11	1:J:456:LEU:CD2	2.36	0.54
1:K:316:THR:HG21	1:K:321:GLU:CG	2.23	0.54
1:L:41:LEU:HD12	1:L:71:VAL:HG13	1.90	0.54
1:A:371:ILE:HD11	1:A:466:GLU:HB2	1.90	0.54
1:A:607:GLU:OE1	1:B:465:ARG:NH2	2.39	0.54
1:A:673:GLU:N	1:A:673:GLU:OE1	2.39	0.54
1:A:760:GLN:CB	1:H:760:GLN:HE22	2.20	0.54
1:B:482:LEU:CD1	1:B:527:LEU:HD11	2.37	0.54
2:C:708:ARG:HG3	2:C:708:ARG:NH1	2.22	0.54
1:E:287:ARG:HG2	1:E:291:GLU:OE2	2.08	0.54
1:E:463:ALA:HB1	1:E:466:GLU:HG2	1.89	0.54
1:G:59:LEU:HD23	1:G:102:ILE:HG13	1.89	0.54
1:G:461:PRO:O	1:G:464:LEU:HD22	2.08	0.54
1:G:697:LEU:HD23	1:G:700:ARG:NH2	2.23	0.54
1:H:379:GLU:O	1:H:383:ILE:CD1	2.54	0.54
1:J:317:HIS:NE2	1:K:317:HIS:CD2	2.76	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:57:VAL:HG21	1:K:71:VAL:HG21	1.88	0.54
1:K:314:GLU:C	1:K:316:THR:H	2.11	0.54
1:L:158:MET:CG	1:L:388:MET:HA	2.37	0.54
1:A:403:THR:O	1:A:403:THR:HG22	2.08	0.54
1:A:463:ALA:HB1	1:A:466:GLU:HG2	1.89	0.54
1:B:477:GLU:OE1	1:B:477:GLU:HA	2.08	0.54
2:C:403:THR:HG22	2:C:403:THR:O	2.08	0.54
3:D:408:GLY:HA3	4:D:801:ADP:C8	2.43	0.54
3:D:482:LEU:CD1	3:D:527:LEU:HD11	2.37	0.54
1:F:213:LEU:HD13	1:F:254:ILE:HG23	1.89	0.54
1:G:168:THR:HG22	1:G:170:PRO:HD2	1.89	0.54
1:H:764:GLN:CG	1:I:742:PHE:HA	2.36	0.54
1:I:59:LEU:CD2	1:I:102:ILE:HG13	2.38	0.54
1:J:461:PRO:O	1:J:464:LEU:HD22	2.08	0.54
1:J:502:LYS:HZ3	1:K:703:ILE:CA	2.21	0.54
1:L:119:ILE:HG22	1:L:162:GLU:HG3	1.89	0.54
1:B:287:ARG:HG2	1:B:291:GLU:OE2	2.08	0.54
1:B:336:LYS:HG3	1:B:338:ARG:HB2	1.88	0.54
1:B:371:ILE:HD11	1:B:466:GLU:HB2	1.90	0.54
1:B:463:ALA:HB1	1:B:466:GLU:HG2	1.89	0.54
2:C:408:GLY:HA3	4:C:801:ADP:C8	2.43	0.54
2:C:482:LEU:CD1	2:C:527:LEU:HD11	2.37	0.54
2:C:550:MET:SD	2:C:558:ASN:HB2	2.48	0.54
3:D:463:ALA:HB1	3:D:466:GLU:HG2	1.89	0.54
3:D:613:THR:HG21	1:E:464:LEU:CD2	2.37	0.54
1:F:371:ILE:HD11	1:F:466:GLU:HB2	1.90	0.54
1:J:59:LEU:CD2	1:J:102:ILE:HG13	2.38	0.54
1:J:314:GLU:C	1:J:316:THR:H	2.11	0.54
1:J:480:GLY:HA3	1:J:655:ALA:HB3	1.90	0.54
1:L:480:GLY:HA3	1:L:655:ALA:HB3	1.90	0.54
1:A:477:GLU:OE1	1:A:477:GLU:HA	2.08	0.53
1:A:733:ARG:NH2	1:F:775:SER:HB3	2.23	0.53
1:A:752:ILE:CG2	1:H:766:ARG:HH21	2.22	0.53
2:C:287:ARG:HG2	2:C:291:GLU:OE2	2.08	0.53
1:F:463:ALA:HB1	1:F:466:GLU:HG2	1.89	0.53
1:G:51:LEU:CD1	1:G:57:VAL:HG22	2.37	0.53
1:H:206:ILE:HD13	1:H:254:ILE:HA	1.89	0.53
1:I:287:ARG:HG2	1:I:291:GLU:OE2	2.07	0.53
1:J:35:ASP:O	1:J:85:ASN:ND2	2.41	0.53
1:J:51:LEU:HD11	1:J:104:PRO:CA	2.37	0.53
1:K:59:LEU:CD2	1:K:102:ILE:HG13	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:119:ILE:HG22	1:K:162:GLU:HG3	1.88	0.53
1:K:168:THR:HG22	1:K:170:PRO:HD2	1.89	0.53
1:L:59:LEU:CD2	1:L:102:ILE:HG13	2.38	0.53
1:L:686:ASP:OD1	1:L:746:SER:OG	2.18	0.53
1:A:491:GLU:CA	1:A:495:TYR:HD2	2.11	0.53
1:B:213:LEU:HD13	1:B:254:ILE:HG23	1.89	0.53
1:B:403:THR:O	1:B:403:THR:HG22	2.08	0.53
1:B:605:LEU:HD23	1:B:608:MET:CE	2.39	0.53
1:B:708:ARG:HG3	1:B:708:ARG:NH1	2.22	0.53
1:F:287:ARG:HG2	1:F:291:GLU:OE2	2.08	0.53
1:H:169:ASP:HB3	1:H:170:PRO:HD3	1.91	0.53
1:H:314:GLU:C	1:H:316:THR:H	2.11	0.53
1:I:51:LEU:HD11	1:I:104:PRO:CA	2.37	0.53
1:I:158:MET:HG2	1:I:388:MET:HA	1.89	0.53
1:J:158:MET:HG2	1:J:388:MET:HA	1.89	0.53
1:J:390:LEU:HG	1:J:394:VAL:HG21	1.91	0.53
1:J:697:LEU:HD13	1:J:738:GLU:CB	2.29	0.53
1:K:461:PRO:O	1:K:464:LEU:HD22	2.08	0.53
1:K:480:GLY:HA3	1:K:655:ALA:HB3	1.90	0.53
1:K:697:LEU:HD23	1:K:700:ARG:NH2	2.23	0.53
1:L:51:LEU:CD1	1:L:57:VAL:HG22	2.37	0.53
1:A:287:ARG:HG2	1:A:291:GLU:OE2	2.08	0.53
1:B:582:ILE:CD1	1:B:600:VAL:HB	2.39	0.53
1:B:766:ARG:HG3	1:G:756:GLU:OE2	2.08	0.53
3:D:287:ARG:HG2	3:D:291:GLU:OE2	2.08	0.53
1:E:516:PHE:N	1:E:621:GLY:O	2.36	0.53
1:F:403:THR:HG22	1:F:403:THR:O	2.08	0.53
1:G:59:LEU:CD2	1:G:102:ILE:HG13	2.38	0.53
1:G:644:TYR:O	1:G:646:PRO:HD3	2.09	0.53
1:H:410:ASP:OD2	1:H:462:SER:OG	2.22	0.53
1:H:461:PRO:O	1:H:464:LEU:HD22	2.08	0.53
1:I:310:ALA:HB2	1:I:328:LEU:HD23	1.90	0.53
1:J:644:TYR:O	1:J:646:PRO:HD3	2.09	0.53
1:K:390:LEU:HG	1:K:394:VAL:HG21	1.91	0.53
1:K:399:VAL:HG23	1:K:456:LEU:HD21	1.89	0.53
1:L:40:SER:O	1:L:82:ILE:HG23	2.07	0.53
1:L:644:TYR:O	1:L:646:PRO:HD3	2.09	0.53
1:A:244:TYR:CE1	1:A:368:ASP:HB2	2.44	0.53
2:C:244:TYR:CE1	2:C:368:ASP:HB2	2.44	0.53
3:D:550:MET:SD	3:D:558:ASN:HB2	2.48	0.53
3:D:582:ILE:CD1	3:D:600:VAL:HB	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:550:MET:SD	1:E:558:ASN:HB2	2.48	0.53
1:E:760:GLN:CB	1:J:760:GLN:HE22	2.20	0.53
1:G:287:ARG:HG2	1:G:291:GLU:OE2	2.07	0.53
1:G:626:PRO:O	1:G:629:ILE:HG22	2.08	0.53
1:H:35:ASP:O	1:H:85:ASN:ND2	2.42	0.53
1:J:169:ASP:HB3	1:J:170:PRO:HD3	1.91	0.53
1:J:329:LEU:HD21	1:J:357:LEU:CD2	2.29	0.53
1:K:287:ARG:HG2	1:K:291:GLU:OE2	2.07	0.53
1:K:644:TYR:O	1:K:646:PRO:HD3	2.09	0.53
1:L:35:ASP:O	1:L:85:ASN:ND2	2.41	0.53
1:L:221:GLU:O	1:L:225:ARG:N	2.36	0.53
1:L:399:VAL:HG23	1:L:456:LEU:HD21	1.89	0.53
1:L:650:GLU:O	1:L:654:VAL:HG23	2.08	0.53
1:L:697:LEU:HD23	1:L:700:ARG:NH2	2.23	0.53
1:A:611:MET:CG	1:A:612:SER:H	2.17	0.53
1:B:244:TYR:CE1	1:B:368:ASP:HB2	2.44	0.53
1:B:406:HIS:HD2	1:B:461:PRO:CB	2.04	0.53
1:B:439:ALA:O	1:B:442:MET:HG2	2.09	0.53
1:B:508:MET:CE	2:C:696:LYS:HB2	2.39	0.53
3:D:477:GLU:OE1	3:D:477:GLU:HA	2.08	0.53
1:G:35:ASP:O	1:G:85:ASN:ND2	2.42	0.53
1:J:287:ARG:HG2	1:J:291:GLU:OE2	2.07	0.53
1:J:310:ALA:HB2	1:J:328:LEU:HD23	1.89	0.53
1:K:635:ARG:O	1:K:638:ARG:HB2	2.09	0.53
1:A:213:LEU:HD13	1:A:254:ILE:HG23	1.89	0.53
1:B:250:GLY:O	1:B:254:ILE:HG13	2.09	0.53
3:D:244:TYR:CE1	3:D:368:ASP:HB2	2.44	0.53
3:D:708:ARG:HG3	3:D:708:ARG:NH1	2.22	0.53
1:F:550:MET:SD	1:F:558:ASN:HB2	2.48	0.53
1:F:760:GLN:HG2	1:I:760:GLN:NE2	2.23	0.53
1:G:314:GLU:C	1:G:316:THR:H	2.11	0.53
1:G:487:ARG:HH22	1:H:700:ARG:HH11	1.57	0.53
1:G:650:GLU:O	1:G:654:VAL:HG23	2.08	0.53
1:I:635:ARG:O	1:I:638:ARG:HB2	2.09	0.53
1:J:243:LEU:HD11	1:J:344:MET:HE1	1.90	0.53
1:J:635:ARG:O	1:J:638:ARG:HB2	2.09	0.53
1:K:35:ASP:O	1:K:85:ASN:ND2	2.42	0.53
1:K:41:LEU:HD12	1:K:71:VAL:HG13	1.89	0.53
1:L:168:THR:HG22	1:L:170:PRO:HD2	1.89	0.53
1:A:464:LEU:HD11	1:F:613:THR:HG21	1.91	0.53
1:A:708:ARG:O	1:A:708:ARG:HG2	1.98	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:250:GLY:O	2:C:254:ILE:HG13	2.09	0.53
2:C:356:ALA:O	2:C:362:ARG:HD2	2.09	0.53
2:C:605:LEU:HD23	2:C:608:MET:CE	2.39	0.53
1:E:408:GLY:HA3	4:E:801:ADP:C8	2.43	0.53
1:E:454:TRP:CZ2	1:E:458:GLN:HG3	2.44	0.53
1:E:496:PRO:HB3	1:E:510:PRO:HG3	1.91	0.53
1:E:745:ARG:NH1	1:K:745:ARG:HH12	2.07	0.53
1:F:454:TRP:CZ2	1:F:458:GLN:HG3	2.44	0.53
1:G:51:LEU:HD13	1:G:57:VAL:HG22	1.91	0.53
1:G:651:LYS:HD2	1:G:651:LYS:H	1.74	0.53
1:H:329:LEU:HD21	1:H:357:LEU:CD2	2.29	0.53
1:H:504:LEU:HG	5:H:802:Y6Y:C	2.39	0.53
1:I:35:ASP:O	1:I:85:ASN:ND2	2.41	0.53
1:I:148:LYS:HE3	1:I:166:VAL:O	2.09	0.53
1:I:461:PRO:O	1:I:464:LEU:HD22	2.08	0.53
1:I:650:GLU:O	1:I:654:VAL:HG23	2.08	0.53
1:K:650:GLU:O	1:K:654:VAL:HG23	2.08	0.53
1:A:439:ALA:O	1:A:442:MET:HG2	2.09	0.53
1:A:582:ILE:CD1	1:A:600:VAL:HB	2.39	0.53
1:B:760:GLN:CB	1:G:760:GLN:HE22	2.18	0.53
2:C:495:TYR:CE1	3:D:703:ILE:HG21	2.44	0.53
3:D:250:GLY:O	3:D:254:ILE:HG13	2.09	0.53
3:D:356:ALA:O	3:D:362:ARG:HD2	2.09	0.53
3:D:462:SER:O	3:D:463:ALA:HB2	2.09	0.53
3:D:496:PRO:HB3	3:D:510:PRO:HG3	1.91	0.53
1:E:462:SER:O	1:E:463:ALA:HB2	2.09	0.53
1:G:169:ASP:HB3	1:G:170:PRO:HD3	1.91	0.53
1:G:504:LEU:HG	5:G:802:Y6Y:C	2.39	0.53
1:G:700:ARG:HD3	1:L:491:GLU:OE1	2.09	0.53
1:K:310:ALA:HB2	1:K:328:LEU:HD23	1.90	0.53
1:K:769:GLY:O	1:L:741:ARG:NH2	2.36	0.53
1:L:314:GLU:C	1:L:316:THR:H	2.11	0.53
1:L:626:PRO:O	1:L:629:ILE:HG22	2.08	0.53
1:A:228:ALA:HB1	1:B:435:GLU:O	2.09	0.53
3:D:272:PRO:HA	3:D:275:MET:HB2	1.91	0.53
1:E:244:TYR:CE1	1:E:368:ASP:HB2	2.44	0.53
1:E:492:LEU:HD21	1:E:641:GLN:HG3	1.91	0.53
1:E:574:LEU:HB3	1:E:619:ILE:HD13	1.90	0.53
1:F:356:ALA:O	1:F:362:ARG:HD2	2.09	0.53
1:F:402:GLU:HB3	1:F:456:LEU:HD21	1.91	0.53
1:F:462:SER:O	1:F:463:ALA:HB2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:316:THR:HG21	1:G:321:GLU:CG	2.23	0.53
1:G:414:LEU:HD11	1:G:456:LEU:CD2	2.36	0.53
1:G:741:ARG:O	1:L:764:GLN:HG3	2.09	0.53
1:H:51:LEU:CD1	1:H:104:PRO:CB	2.87	0.53
1:H:59:LEU:CD2	1:H:102:ILE:HG13	2.38	0.53
1:H:675:LEU:O	1:H:679:THR:HG23	2.09	0.53
1:I:115:HIS:HD1	1:I:166:VAL:HG13	1.74	0.53
1:K:169:ASP:HB3	1:K:170:PRO:HD3	1.91	0.53
1:K:675:LEU:O	1:K:679:THR:HG23	2.09	0.53
1:L:148:LYS:HE3	1:L:166:VAL:O	2.09	0.53
1:A:356:ALA:O	1:A:362:ARG:HD2	2.09	0.53
1:A:380:ILE:CG2	1:A:411:LEU:HD12	2.39	0.53
1:A:605:LEU:HD23	1:A:608:MET:CE	2.39	0.53
1:B:272:PRO:HA	1:B:275:MET:HB2	1.91	0.53
2:C:371:ILE:HD11	2:C:466:GLU:HB2	1.90	0.53
2:C:439:ALA:O	2:C:442:MET:HG2	2.09	0.53
2:C:582:ILE:CD1	2:C:600:VAL:HB	2.39	0.53
3:D:371:ILE:HD11	3:D:466:GLU:HB2	1.90	0.53
3:D:492:LEU:HD21	3:D:641:GLN:HG3	1.91	0.53
1:E:439:ALA:O	1:E:442:MET:HG2	2.09	0.53
1:E:582:ILE:CD1	1:E:600:VAL:HB	2.39	0.53
1:F:244:TYR:CE1	1:F:368:ASP:HB2	2.44	0.53
1:G:480:GLY:HA3	1:G:655:ALA:HB3	1.90	0.53
1:H:115:HIS:HD1	1:H:166:VAL:HG13	1.74	0.53
1:J:115:HIS:HD1	1:J:166:VAL:HG13	1.74	0.53
1:B:408:GLY:HA3	4:B:801:ADP:N7	2.25	0.52
2:C:380:ILE:HG21	2:C:411:LEU:HD12	1.91	0.52
2:C:613:THR:HG21	3:D:464:LEU:HD11	1.90	0.52
2:C:706:GLU:OE1	2:C:707:ILE:N	2.43	0.52
3:D:454:TRP:CZ2	3:D:458:GLN:HG3	2.44	0.52
1:E:244:TYR:CE2	1:E:366:GLU:HB3	2.44	0.52
1:E:605:LEU:HD23	1:E:608:MET:CE	2.39	0.52
1:F:605:LEU:HD23	1:F:608:MET:CE	2.39	0.52
1:H:148:LYS:HE3	1:H:166:VAL:O	2.09	0.52
1:H:440:GLU:OE1	1:H:440:GLU:N	2.33	0.52
1:I:51:LEU:CD1	1:I:104:PRO:CB	2.87	0.52
1:I:329:LEU:HD21	1:I:357:LEU:CD2	2.29	0.52
1:J:773:PHE:CE2	1:K:736:PHE:HB3	2.41	0.52
1:K:51:LEU:HD11	1:K:104:PRO:CA	2.37	0.52
1:A:402:GLU:HB3	1:A:456:LEU:HD21	1.91	0.52
1:B:550:MET:SD	1:B:558:ASN:HB2	2.48	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:574:LEU:HB3	2:C:619:ILE:HD13	1.91	0.52
3:D:402:GLU:HB3	3:D:456:LEU:HD21	1.91	0.52
1:E:491:GLU:CA	1:E:495:TYR:HD2	2.11	0.52
1:F:496:PRO:HB3	1:F:510:PRO:HG3	1.91	0.52
1:G:51:LEU:CD1	1:G:104:PRO:CB	2.87	0.52
1:G:233:ILE:CD1	1:H:158:MET:HB2	2.25	0.52
1:G:390:LEU:HG	1:G:394:VAL:HG21	1.91	0.52
1:G:764:GLN:HG3	1:H:741:ARG:O	2.09	0.52
1:H:635:ARG:O	1:H:638:ARG:HB2	2.09	0.52
1:H:650:GLU:O	1:H:654:VAL:HG23	2.08	0.52
1:H:651:LYS:HD2	1:H:651:LYS:H	1.74	0.52
1:I:336:LYS:O	1:I:337:GLN:CG	2.54	0.52
1:I:644:TYR:O	1:I:646:PRO:HD3	2.09	0.52
1:J:51:LEU:HD13	1:J:57:VAL:HG22	1.91	0.52
1:L:143:TYR:HE1	1:L:178:PRO:HD3	1.75	0.52
1:L:504:LEU:HG	5:L:802:Y6Y:C	2.39	0.52
1:A:272:PRO:HA	1:A:275:MET:HB2	1.91	0.52
1:B:574:LEU:HB3	1:B:619:ILE:HD13	1.91	0.52
1:B:706:GLU:OE1	1:B:707:ILE:N	2.42	0.52
2:C:244:TYR:CE2	2:C:366:GLU:HB3	2.44	0.52
2:C:771:PHE:HE1	3:D:678:MET:CG	2.18	0.52
3:D:408:GLY:HA3	4:D:801:ADP:N7	2.25	0.52
3:D:489:LEU:HD21	3:D:516:PHE:CZ	2.44	0.52
1:E:708:ARG:HG3	1:E:708:ARG:NH1	2.22	0.52
1:F:574:LEU:HB3	1:F:619:ILE:HD13	1.91	0.52
1:H:206:ILE:HD12	1:H:257:ALA:CB	2.40	0.52
1:H:462:SER:O	1:H:463:ALA:HB3	2.10	0.52
1:H:644:TYR:O	1:H:646:PRO:HD3	2.09	0.52
1:I:390:LEU:HG	1:I:394:VAL:HG21	1.91	0.52
1:I:504:LEU:HG	5:I:802:Y6Y:C	2.39	0.52
1:I:611:MET:HG3	1:I:611:MET:O	2.10	0.52
1:J:148:LYS:HE3	1:J:166:VAL:O	2.09	0.52
1:J:206:ILE:HD12	1:J:257:ALA:CB	2.40	0.52
1:J:410:ASP:OD2	1:J:462:SER:OG	2.22	0.52
1:L:169:ASP:HB3	1:L:170:PRO:HD3	1.91	0.52
1:L:651:LYS:HD2	1:L:651:LYS:H	1.74	0.52
1:A:403:THR:CG2	1:A:406:HIS:ND1	2.73	0.52
1:A:462:SER:O	1:A:463:ALA:HB2	2.09	0.52
1:A:550:MET:SD	1:A:558:ASN:HB2	2.48	0.52
1:A:708:ARG:HG3	1:A:708:ARG:NH1	2.22	0.52
1:A:774:PRO:HD3	1:B:674:PHE:CE2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:403:THR:CG2	1:B:406:HIS:ND1	2.73	0.52
3:D:491:GLU:HG3	3:D:495:TYR:CD2	2.44	0.52
3:D:512:LYS:NZ	3:D:612:SER:HA	2.24	0.52
3:D:761:THR:O	3:D:761:THR:HG22	2.10	0.52
1:E:491:GLU:HG3	1:E:495:TYR:CD2	2.44	0.52
1:F:403:THR:CG2	1:F:406:HIS:ND1	2.73	0.52
1:G:462:SER:O	1:G:463:ALA:HB3	2.10	0.52
1:H:51:LEU:HD13	1:H:57:VAL:HG22	1.91	0.52
1:I:206:ILE:HD12	1:I:257:ALA:CB	2.40	0.52
1:I:680:ASN:OD1	1:I:681:GLY:N	2.42	0.52
1:J:502:LYS:NZ	1:K:706:GLU:HG3	2.24	0.52
1:K:115:HIS:HD1	1:K:166:VAL:HG13	1.74	0.52
1:K:206:ILE:HD12	1:K:257:ALA:CB	2.40	0.52
1:K:379:GLU:O	1:K:383:ILE:CD1	2.54	0.52
1:K:680:ASN:OD1	1:K:681:GLY:N	2.42	0.52
1:L:51:LEU:CD1	1:L:104:PRO:CB	2.87	0.52
1:L:115:HIS:HD1	1:L:166:VAL:HG13	1.74	0.52
1:L:390:LEU:HG	1:L:394:VAL:HG21	1.91	0.52
1:L:635:ARG:O	1:L:638:ARG:HB2	2.09	0.52
1:A:250:GLY:O	1:A:254:ILE:HG13	2.09	0.52
1:A:574:LEU:HB3	1:A:619:ILE:HD13	1.91	0.52
2:C:462:SER:O	2:C:463:ALA:HB2	2.09	0.52
2:C:496:PRO:HB3	2:C:510:PRO:HG3	1.91	0.52
3:D:270:ASN:OD1	3:D:272:PRO:HD2	2.10	0.52
3:D:605:LEU:HD23	3:D:608:MET:CE	2.38	0.52
1:E:250:GLY:O	1:E:254:ILE:HG13	2.09	0.52
1:E:371:ILE:HD11	1:E:466:GLU:HB2	1.90	0.52
1:F:244:TYR:CE2	1:F:366:GLU:HB3	2.44	0.52
1:F:492:LEU:HD21	1:F:641:GLN:HG3	1.91	0.52
1:F:713:ARG:NH1	1:F:713:ARG:HG2	2.23	0.52
1:G:148:LYS:HE3	1:G:166:VAL:O	2.09	0.52
1:I:51:LEU:HD13	1:I:57:VAL:HG22	1.91	0.52
1:I:414:LEU:HD11	1:I:456:LEU:CD2	2.36	0.52
1:I:675:LEU:O	1:I:679:THR:HG23	2.09	0.52
1:J:602:ASN:ND2	1:K:548:LEU:HB3	2.24	0.52
1:K:611:MET:HG3	1:K:611:MET:O	2.10	0.52
1:K:654:VAL:HG22	1:K:676:ALA:HB3	1.91	0.52
1:L:51:LEU:HD13	1:L:57:VAL:HG22	1.91	0.52
1:L:157:GLY:H	1:L:389:LYS:HZ2	1.55	0.52
1:L:206:ILE:HD12	1:L:257:ALA:CB	2.40	0.52
1:L:462:SER:O	1:L:463:ALA:HB3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:675:LEU:O	1:L:679:THR:HG23	2.09	0.52
1:A:358:ARG:NH1	1:A:358:ARG:HG2	2.25	0.52
1:A:454:TRP:CZ2	1:A:458:GLN:HG3	2.44	0.52
1:A:768:PHE:CD1	1:B:740:MET:HE2	2.45	0.52
1:B:347:THR:HG21	1:B:353:ILE:HG21	1.92	0.52
2:C:270:ASN:OD1	2:C:272:PRO:HD2	2.10	0.52
2:C:512:LYS:NZ	2:C:612:SER:HA	2.24	0.52
2:C:612:SER:O	2:C:615:LYS:CE	2.58	0.52
3:D:439:ALA:O	3:D:442:MET:HG2	2.09	0.52
1:F:760:GLN:HG2	1:I:760:GLN:CD	2.29	0.52
1:G:206:ILE:HD12	1:G:257:ALA:CB	2.40	0.52
1:G:675:LEU:O	1:G:679:THR:HG23	2.09	0.52
1:H:571:PRO:HB2	5:H:802:Y6Y:C19	2.40	0.52
1:I:379:GLU:O	1:I:383:ILE:CD1	2.54	0.52
1:I:571:PRO:HB2	5:I:802:Y6Y:C19	2.40	0.52
1:I:765:SER:C	1:I:766:ARG:HD3	2.30	0.52
1:J:611:MET:O	1:J:611:MET:HG3	2.10	0.52
1:J:650:GLU:O	1:J:654:VAL:HG23	2.08	0.52
1:K:51:LEU:CD1	1:K:104:PRO:CB	2.87	0.52
1:K:148:LYS:HE3	1:K:166:VAL:O	2.09	0.52
1:L:310:ALA:HB2	1:L:328:LEU:HD23	1.89	0.52
1:L:734:ASP:OD1	1:L:735:HIS:N	2.43	0.52
1:B:356:ALA:O	1:B:362:ARG:HD2	2.09	0.52
2:C:454:TRP:CZ2	2:C:458:GLN:HG3	2.44	0.52
2:C:489:LEU:HD21	2:C:516:PHE:CZ	2.44	0.52
3:D:380:ILE:CG2	3:D:411:LEU:HD12	2.39	0.52
3:D:574:LEU:HB3	3:D:619:ILE:HD13	1.91	0.52
1:E:356:ALA:O	1:E:362:ARG:HD2	2.09	0.52
1:E:489:LEU:HD21	1:E:516:PHE:CZ	2.44	0.52
1:E:612:SER:O	1:E:615:LYS:CE	2.58	0.52
1:F:380:ILE:CG2	1:F:411:LEU:HD12	2.40	0.52
1:F:439:ALA:O	1:F:442:MET:HG2	2.09	0.52
1:F:491:GLU:HG3	1:F:495:TYR:CD2	2.44	0.52
1:F:512:LYS:NZ	1:F:612:SER:HA	2.24	0.52
1:F:582:ILE:CD1	1:F:600:VAL:HB	2.39	0.52
1:F:612:SER:O	1:F:615:LYS:CE	2.58	0.52
1:G:115:HIS:HD1	1:G:166:VAL:HG13	1.74	0.52
1:G:774:PRO:HD3	1:H:674:PHE:CD2	2.45	0.52
1:I:143:TYR:HE1	1:I:178:PRO:HD3	1.75	0.52
1:I:169:ASP:HB3	1:I:170:PRO:HD3	1.91	0.52
1:J:51:LEU:CD1	1:J:104:PRO:CB	2.87	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:172:PRO:HG2	1:J:173:TYR:HD1	1.75	0.52
1:K:138:TYR:HE2	1:K:155:ARG:H	1.58	0.52
1:K:371:ILE:CD1	1:K:466:GLU:HB2	2.22	0.52
1:K:765:SER:C	1:K:766:ARG:HD3	2.30	0.52
1:L:765:SER:C	1:L:766:ARG:HD3	2.30	0.52
1:A:496:PRO:HB3	1:A:510:PRO:HG3	1.91	0.52
1:B:380:ILE:CG2	1:B:411:LEU:HD12	2.39	0.52
1:B:380:ILE:HG21	1:B:411:LEU:HD12	1.91	0.52
1:B:454:TRP:CZ2	1:B:458:GLN:HG3	2.44	0.52
1:B:496:PRO:HB3	1:B:510:PRO:HG3	1.91	0.52
2:C:380:ILE:CG2	2:C:411:LEU:HD12	2.39	0.52
2:C:402:GLU:HB3	2:C:456:LEU:HD21	1.91	0.52
2:C:403:THR:CG2	2:C:406:HIS:ND1	2.73	0.52
2:C:491:GLU:HG3	2:C:495:TYR:CD2	2.44	0.52
2:C:611:MET:HG3	2:C:612:SER:N	2.16	0.52
2:C:752:ILE:CG2	1:L:766:ARG:HH21	2.22	0.52
3:D:244:TYR:CE2	3:D:366:GLU:HB3	2.44	0.52
3:D:380:ILE:HG21	3:D:411:LEU:HD12	1.91	0.52
1:E:403:THR:CG2	1:E:406:HIS:ND1	2.73	0.52
1:E:408:GLY:HA3	4:E:801:ADP:N7	2.25	0.52
1:F:752:ILE:CG2	1:I:766:ARG:HH21	2.21	0.52
1:G:143:TYR:HE1	1:G:178:PRO:HD3	1.75	0.52
1:G:468:VAL:CG2	1:G:470:GLU:OE1	2.58	0.52
1:G:508:MET:CE	1:H:696:LYS:HB2	2.40	0.52
1:H:143:TYR:HE1	1:H:178:PRO:HD3	1.75	0.52
1:H:143:TYR:CE1	1:H:178:PRO:HD3	2.45	0.52
1:H:378:LEU:O	1:H:382:GLN:OE1	2.28	0.52
1:H:468:VAL:CG2	1:H:470:GLU:OE1	2.58	0.52
1:H:654:VAL:HG22	1:H:676:ALA:HB3	1.91	0.52
1:H:765:SER:C	1:H:766:ARG:HD3	2.30	0.52
1:I:51:LEU:HG	1:I:104:PRO:HB3	1.92	0.52
1:I:686:ASP:OD1	1:I:746:SER:OG	2.18	0.52
1:J:494:GLN:HG2	1:J:498:GLU:HG3	1.92	0.52
1:J:651:LYS:HD2	1:J:651:LYS:H	1.74	0.52
1:J:774:PRO:HD3	1:K:674:PHE:CG	2.44	0.52
1:K:230:PHE:CZ	1:L:420:LEU:HD11	2.44	0.52
1:K:716:ASN:HB3	1:K:719:ALA:HB2	1.91	0.52
1:L:273:GLU:OE1	1:L:273:GLU:HA	2.10	0.52
1:B:244:TYR:CE2	1:B:366:GLU:HB3	2.44	0.52
2:C:347:THR:HG21	2:C:353:ILE:HG21	1.92	0.52
2:C:408:GLY:HA3	4:C:801:ADP:N7	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:492:LEU:HD21	2:C:641:GLN:HG3	1.91	0.52
3:D:612:SER:O	3:D:615:LYS:CE	2.58	0.52
3:D:706:GLU:OE1	3:D:707:ILE:N	2.42	0.52
1:E:272:PRO:HA	1:E:275:MET:HB2	1.91	0.52
1:E:402:GLU:HB3	1:E:456:LEU:HD21	1.91	0.52
1:F:250:GLY:O	1:F:254:ILE:HG13	2.09	0.52
1:F:489:LEU:HD21	1:F:516:PHE:CZ	2.44	0.52
1:G:138:TYR:HE2	1:G:155:ARG:H	1.58	0.52
1:G:224:LEU:HD13	1:G:264:ALA:HB2	1.92	0.52
1:G:273:GLU:HA	1:G:273:GLU:OE1	2.10	0.52
1:G:734:ASP:OD1	1:G:735:HIS:N	2.43	0.52
1:H:734:ASP:OD1	1:H:735:HIS:N	2.43	0.52
1:H:773:PHE:CB	1:I:733:ARG:NH2	2.73	0.52
1:I:172:PRO:HG2	1:I:173:TYR:HD1	1.75	0.52
1:I:764:GLN:CG	1:J:742:PHE:HA	2.40	0.52
1:J:138:TYR:HE2	1:J:155:ARG:H	1.58	0.52
1:J:221:GLU:O	1:J:225:ARG:N	2.36	0.52
1:J:734:ASP:OD1	1:J:735:HIS:N	2.43	0.52
1:L:138:TYR:HE2	1:L:155:ARG:H	1.58	0.52
1:L:224:LEU:HD13	1:L:264:ALA:HB2	1.92	0.52
1:A:347:THR:HG21	1:A:353:ILE:HG21	1.92	0.52
1:B:491:GLU:HG3	1:B:495:TYR:CD2	2.44	0.52
2:C:210:ARG:NH2	2:C:469:VAL:O	2.43	0.52
1:E:512:LYS:NZ	1:E:612:SER:HA	2.24	0.52
1:F:272:PRO:HA	1:F:275:MET:HB2	1.91	0.52
1:F:347:THR:HG21	1:F:353:ILE:HG21	1.92	0.52
1:G:143:TYR:CE1	1:G:178:PRO:HD3	2.45	0.52
1:G:654:VAL:HG22	1:G:676:ALA:HB3	1.91	0.52
1:G:674:PHE:CD2	1:L:774:PRO:HD3	2.45	0.52
1:G:765:SER:C	1:G:766:ARG:HD3	2.30	0.52
1:H:51:LEU:HG	1:H:104:PRO:HB3	1.92	0.52
1:H:284:SER:O	1:H:288:LYS:HG3	2.10	0.52
1:H:414:LEU:HD11	1:H:456:LEU:CD2	2.36	0.52
1:I:462:SER:O	1:I:463:ALA:HB3	2.10	0.52
1:I:734:ASP:OD1	1:I:735:HIS:N	2.43	0.52
1:J:516:PHE:HE1	1:J:643:ILE:HD12	1.75	0.52
1:K:537:ALA:HB2	5:K:802:Y6Y:C19	2.40	0.52
1:K:651:LYS:HD2	1:K:651:LYS:H	1.74	0.52
1:L:680:ASN:OD1	1:L:681:GLY:N	2.42	0.52
1:A:332:MET:CE	1:A:363:PHE:CE2	2.93	0.51
1:A:492:LEU:HD21	1:A:641:GLN:HG3	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:512:LYS:NZ	1:A:612:SER:HA	2.24	0.51
1:B:358:ARG:NH1	1:B:358:ARG:HG2	2.25	0.51
1:B:512:LYS:NZ	1:B:612:SER:HA	2.24	0.51
2:C:272:PRO:HA	2:C:275:MET:HB2	1.91	0.51
2:C:332:MET:CE	2:C:363:PHE:CE2	2.93	0.51
1:E:332:MET:CE	1:E:363:PHE:CE2	2.93	0.51
1:F:270:ASN:OD1	1:F:272:PRO:HD2	2.10	0.51
1:F:753:ARG:HH12	1:I:761:THR:HA	1.73	0.51
1:G:571:PRO:HB2	5:G:802:Y6Y:C19	2.40	0.51
1:I:416:SER:O	1:I:420:LEU:HD23	2.10	0.51
1:I:494:GLN:HG2	1:I:498:GLU:HG3	1.92	0.51
1:I:516:PHE:HE1	1:I:643:ILE:HD12	1.75	0.51
1:J:379:GLU:O	1:J:383:ILE:CD1	2.54	0.51
1:J:571:PRO:HB2	5:J:802:Y6Y:C19	2.40	0.51
1:J:654:VAL:HG22	1:J:676:ALA:HB3	1.92	0.51
1:J:765:SER:C	1:J:766:ARG:HD3	2.30	0.51
1:K:172:PRO:HG2	1:K:173:TYR:HD1	1.75	0.51
1:A:286:LEU:HD21	1:A:328:LEU:CD1	2.35	0.51
1:A:761:THR:HG22	1:A:761:THR:O	2.10	0.51
2:C:751:ASP:OD1	2:C:754:LYS:HE2	2.11	0.51
3:D:603:GLN:O	3:D:607:GLU:HG2	2.11	0.51
1:E:270:ASN:OD1	1:E:272:PRO:HD2	2.10	0.51
1:F:329:LEU:CD2	1:F:357:LEU:HD23	2.41	0.51
1:H:537:ALA:HB2	5:H:802:Y6Y:C19	2.40	0.51
1:I:143:TYR:CE1	1:I:178:PRO:HD3	2.45	0.51
1:I:378:LEU:O	1:I:382:GLN:OE1	2.28	0.51
1:J:462:SER:O	1:J:463:ALA:HB3	2.10	0.51
1:J:504:LEU:HG	5:J:802:Y6Y:C	2.39	0.51
1:K:143:TYR:CE1	1:K:178:PRO:HD3	2.45	0.51
1:K:516:PHE:HE1	1:K:643:ILE:HD12	1.75	0.51
1:L:379:GLU:O	1:L:383:ILE:CD1	2.54	0.51
1:L:537:ALA:HB2	5:L:802:Y6Y:C19	2.40	0.51
1:A:612:SER:O	1:A:615:LYS:CE	2.58	0.51
1:B:219:MET:HE2	1:B:365:ARG:NH2	2.20	0.51
2:C:489:LEU:HD21	2:C:516:PHE:CE1	2.45	0.51
3:D:329:LEU:CD2	3:D:357:LEU:HD23	2.41	0.51
3:D:403:THR:CG2	3:D:406:HIS:ND1	2.73	0.51
3:D:753:ARG:NH1	1:K:761:THR:HA	2.25	0.51
1:H:416:SER:O	1:H:420:LEU:HD23	2.10	0.51
1:H:604:ILE:HG22	1:H:608:MET:HE2	1.92	0.51
1:I:651:LYS:HD2	1:I:651:LYS:H	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:675:LEU:O	1:J:679:THR:HG23	2.09	0.51
1:J:680:ASN:OD1	1:J:681:GLY:N	2.42	0.51
1:K:221:GLU:O	1:K:225:ARG:N	2.36	0.51
1:K:504:LEU:HG	5:K:802:Y6Y:C	2.39	0.51
1:K:734:ASP:OD1	1:K:735:HIS:N	2.43	0.51
1:L:143:TYR:CE1	1:L:178:PRO:HD3	2.45	0.51
1:A:210:ARG:NH2	1:A:469:VAL:O	2.43	0.51
1:A:408:GLY:HA3	4:A:801:ADP:N7	2.25	0.51
1:B:612:SER:O	1:B:615:LYS:CE	2.58	0.51
3:D:751:ASP:OD1	3:D:754:LYS:HE2	2.11	0.51
1:E:489:LEU:HD21	1:E:516:PHE:CE1	2.46	0.51
1:E:706:GLU:OE1	1:E:707:ILE:N	2.42	0.51
1:F:252:THR:HG1	1:F:302:PHE:HE2	1.57	0.51
1:F:408:GLY:HA3	4:F:801:ADP:N7	2.25	0.51
1:F:761:THR:HG22	1:F:761:THR:O	2.10	0.51
1:G:149:GLY:HA2	1:G:164:LYS:CE	2.36	0.51
1:G:155:ARG:HG3	1:G:155:ARG:NH1	2.26	0.51
1:J:41:LEU:HD12	1:J:71:VAL:HG13	1.89	0.51
1:J:51:LEU:HG	1:J:104:PRO:HB3	1.92	0.51
1:K:317:HIS:NE2	1:L:317:HIS:HD2	2.09	0.51
1:K:494:GLN:HG2	1:K:498:GLU:HG3	1.92	0.51
1:L:410:ASP:OD2	1:L:462:SER:OG	2.22	0.51
1:L:416:SER:O	1:L:420:LEU:HD23	2.10	0.51
1:A:380:ILE:HG21	1:A:411:LEU:HD12	1.91	0.51
1:A:489:LEU:HD21	1:A:516:PHE:CZ	2.44	0.51
1:A:706:GLU:OE1	1:A:707:ILE:N	2.42	0.51
1:B:489:LEU:HD21	1:B:516:PHE:CZ	2.44	0.51
1:B:492:LEU:HD21	1:B:641:GLN:HG3	1.91	0.51
2:C:210:ARG:HG3	2:C:212:GLN:HE22	1.75	0.51
2:C:761:THR:HG22	2:C:761:THR:O	2.10	0.51
1:E:380:ILE:CG2	1:E:411:LEU:HD12	2.39	0.51
1:E:380:ILE:HG21	1:E:411:LEU:HD12	1.91	0.51
1:F:706:GLU:OE1	1:F:707:ILE:N	2.42	0.51
1:F:712:GLU:C	1:F:714:GLN:H	2.14	0.51
1:F:751:ASP:OD1	1:F:754:LYS:HE2	2.11	0.51
1:G:394:VAL:HG12	1:G:449:MET:CB	2.41	0.51
1:G:537:ALA:HB2	5:G:802:Y6Y:C19	2.40	0.51
1:H:494:GLN:HG2	1:H:498:GLU:HG3	1.92	0.51
1:I:537:ALA:HB2	5:I:802:Y6Y:C19	2.40	0.51
1:I:654:VAL:HG22	1:I:676:ALA:HB3	1.92	0.51
1:I:772:ARG:NH2	1:J:741:ARG:HH22	2.08	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:143:TYR:CE1	1:J:178:PRO:HD3	2.45	0.51
1:J:243:LEU:HD11	1:J:344:MET:HE2	1.91	0.51
1:J:381:LEU:HD13	1:J:399:VAL:HG13	1.93	0.51
1:J:537:ALA:HB2	5:J:802:Y6Y:C19	2.40	0.51
1:K:273:GLU:OE1	1:K:273:GLU:HA	2.10	0.51
1:K:378:LEU:O	1:K:382:GLN:OE1	2.28	0.51
1:K:440:GLU:OE1	1:K:440:GLU:N	2.33	0.51
1:A:491:GLU:HG3	1:A:495:TYR:CD2	2.44	0.51
1:B:329:LEU:CD2	1:B:357:LEU:HD23	2.41	0.51
1:B:402:GLU:HB3	1:B:456:LEU:HD21	1.91	0.51
1:B:751:ASP:OD1	1:B:754:LYS:HE2	2.11	0.51
1:B:761:THR:O	1:B:761:THR:HG22	2.10	0.51
2:C:329:LEU:HD23	2:C:357:LEU:HD23	1.93	0.51
3:D:360:PHE:HZ	1:E:462:SER:OG	1.94	0.51
1:E:347:THR:HG21	1:E:353:ILE:HG21	1.92	0.51
1:E:603:GLN:O	1:E:607:GLU:HG2	2.11	0.51
1:E:761:THR:O	1:E:761:THR:HG22	2.10	0.51
1:F:332:MET:CE	1:F:363:PHE:CE2	2.93	0.51
1:G:611:MET:HG3	1:G:611:MET:O	2.10	0.51
1:G:635:ARG:O	1:G:638:ARG:HB2	2.09	0.51
1:H:116:VAL:CG1	1:H:163:PHE:HB3	2.41	0.51
1:H:172:PRO:HG2	1:H:173:TYR:HD1	1.75	0.51
1:H:502:LYS:HZ3	1:I:703:ILE:N	2.09	0.51
1:H:516:PHE:HE1	1:H:643:ILE:HD12	1.75	0.51
1:I:220:VAL:O	1:I:220:VAL:HG12	2.11	0.51
1:I:284:SER:O	1:I:288:LYS:HG3	2.10	0.51
1:K:51:LEU:HD13	1:K:57:VAL:HG22	1.91	0.51
1:K:284:SER:O	1:K:288:LYS:HG3	2.10	0.51
1:L:172:PRO:HG2	1:L:173:TYR:HD1	1.75	0.51
1:B:270:ASN:OD1	1:B:272:PRO:HD2	2.10	0.51
1:B:603:GLN:O	1:B:607:GLU:HG2	2.11	0.51
2:C:329:LEU:CD2	2:C:357:LEU:HD23	2.41	0.51
3:D:332:MET:CE	3:D:363:PHE:CE2	2.93	0.51
1:F:329:LEU:HD23	1:F:357:LEU:HD23	1.93	0.51
1:H:138:TYR:HE2	1:H:155:ARG:H	1.58	0.51
1:H:155:ARG:HG3	1:H:155:ARG:NH1	2.26	0.51
1:H:224:LEU:HD13	1:H:264:ALA:HB2	1.92	0.51
1:H:602:ASN:HD21	1:I:548:LEU:HB2	1.75	0.51
1:I:116:VAL:CG1	1:I:163:PHE:HB3	2.41	0.51
1:I:602:ASN:ND2	1:J:548:LEU:HB3	2.26	0.51
1:J:116:VAL:CG1	1:J:163:PHE:HB3	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:143:TYR:HE1	1:J:178:PRO:HD3	1.74	0.51
1:K:115:HIS:HB3	1:K:167:GLU:O	2.11	0.51
1:K:571:PRO:HB2	5:K:802:Y6Y:C19	2.40	0.51
1:L:155:ARG:HG3	1:L:155:ARG:NH1	2.26	0.51
1:L:571:PRO:HB2	5:L:802:Y6Y:C19	2.40	0.51
1:L:611:MET:HG3	1:L:611:MET:O	2.10	0.51
1:B:210:ARG:NH2	1:B:469:VAL:O	2.43	0.51
1:B:462:SER:O	1:B:463:ALA:HB2	2.09	0.51
2:C:482:LEU:CD1	2:C:527:LEU:HD21	2.40	0.51
3:D:508:MET:HE3	1:E:692:GLN:O	2.11	0.51
1:F:210:ARG:NH2	1:F:469:VAL:O	2.43	0.51
1:F:242:LEU:HB3	1:F:366:GLU:HG2	1.93	0.51
1:G:172:PRO:HG2	1:G:173:TYR:HD1	1.75	0.51
1:G:284:SER:O	1:G:288:LYS:HG3	2.10	0.51
1:G:516:PHE:HE1	1:G:643:ILE:HD12	1.75	0.51
1:H:394:VAL:HG12	1:H:449:MET:CB	2.41	0.51
1:H:773:PHE:HB3	1:I:733:ARG:NH2	2.26	0.51
1:I:273:GLU:OE1	1:I:273:GLU:HA	2.10	0.51
1:I:381:LEU:HD13	1:I:399:VAL:HG13	1.93	0.51
1:J:522:CYS:SG	1:J:647:LEU:HD23	2.51	0.51
1:L:469:VAL:HG12	1:L:538:ASN:HB3	1.93	0.51
1:A:321:GLU:HA	1:A:324:ILE:HG22	1.93	0.51
1:A:329:LEU:HD23	1:A:357:LEU:HD23	1.93	0.51
1:A:489:LEU:HD21	1:A:516:PHE:CE1	2.45	0.51
1:B:210:ARG:HG3	1:B:212:GLN:HE22	1.76	0.51
1:B:489:LEU:HD21	1:B:516:PHE:CE1	2.45	0.51
1:B:752:ILE:CG2	1:G:766:ARG:HH21	2.24	0.51
2:C:463:ALA:HB1	2:C:466:GLU:CG	2.41	0.51
2:C:603:GLN:O	2:C:607:GLU:HG2	2.11	0.51
2:C:611:MET:CG	2:C:612:SER:H	2.17	0.51
3:D:489:LEU:HD21	3:D:516:PHE:CE1	2.46	0.51
1:F:321:GLU:HA	1:F:324:ILE:HG22	1.93	0.51
1:G:116:VAL:CG1	1:G:163:PHE:HB3	2.41	0.51
1:G:278:LEU:HA	1:L:323:ARG:HH21	1.76	0.51
1:H:89:ARG:HG2	1:H:94:VAL:O	2.11	0.51
1:I:522:CYS:SG	1:I:647:LEU:HD23	2.51	0.51
1:J:115:HIS:HB3	1:J:167:GLU:O	2.11	0.51
1:J:284:SER:O	1:J:288:LYS:HG3	2.10	0.51
1:K:143:TYR:HE1	1:K:178:PRO:HD3	1.75	0.51
1:K:522:CYS:SG	1:K:647:LEU:HD23	2.51	0.51
1:K:773:PHE:HB3	1:L:733:ARG:NH2	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:220:VAL:O	1:L:220:VAL:HG12	2.11	0.51
1:L:378:LEU:O	1:L:382:GLN:OE1	2.28	0.51
1:B:332:MET:CE	1:B:363:PHE:CE2	2.93	0.51
3:D:242:LEU:HB3	3:D:366:GLU:HG2	1.93	0.51
3:D:347:THR:HG21	3:D:353:ILE:HG21	1.92	0.51
1:E:773:PHE:CZ	1:F:670:VAL:HG23	2.46	0.51
1:F:380:ILE:HG21	1:F:411:LEU:HD12	1.91	0.51
1:G:371:ILE:CG2	1:G:372:PRO:HD2	2.41	0.51
1:H:273:GLU:OE1	1:H:273:GLU:HA	2.10	0.51
1:I:224:LEU:HD13	1:I:264:ALA:HB2	1.92	0.51
1:I:230:PHE:HZ	1:J:420:LEU:HD11	1.72	0.51
1:I:299:ALA:O	1:I:341:VAL:HA	2.11	0.51
1:I:394:VAL:HG12	1:I:449:MET:CB	2.41	0.51
1:J:316:THR:HG21	1:J:321:GLU:CG	2.23	0.51
1:K:219:MET:HE2	1:K:365:ARG:NH1	2.20	0.51
1:K:381:LEU:HD13	1:K:399:VAL:HG13	1.93	0.51
1:K:416:SER:O	1:K:420:LEU:HD23	2.10	0.51
1:L:336:LYS:O	1:L:337:GLN:CG	2.54	0.51
1:L:494:GLN:HG2	1:L:498:GLU:HG3	1.92	0.51
1:L:516:PHE:HE1	1:L:643:ILE:HD12	1.75	0.51
1:L:608:MET:HG2	1:L:619:ILE:CD1	2.41	0.51
1:A:244:TYR:CE2	1:A:366:GLU:HB3	2.44	0.50
1:A:599:ARG:NH1	1:B:552:PHE:O	2.44	0.50
1:A:603:GLN:O	1:A:607:GLU:HG2	2.10	0.50
2:C:390:LEU:CD1	2:C:394:VAL:HG21	2.42	0.50
2:C:760:GLN:CB	1:L:760:GLN:HE22	2.22	0.50
1:E:210:ARG:NH2	1:E:469:VAL:O	2.43	0.50
1:G:700:ARG:HH11	1:L:487:ARG:HH22	1.59	0.50
1:H:230:PHE:HZ	1:I:420:LEU:HD11	1.74	0.50
1:H:479:ILE:HG21	1:H:527:LEU:CD1	2.41	0.50
1:H:611:MET:HG3	1:H:611:MET:O	2.10	0.50
1:I:371:ILE:CG2	1:I:372:PRO:HD2	2.41	0.50
1:J:224:LEU:HD13	1:J:264:ALA:HB2	1.92	0.50
1:J:378:LEU:O	1:J:382:GLN:OE1	2.28	0.50
1:J:416:SER:O	1:J:420:LEU:HD23	2.10	0.50
1:J:483:GLU:OE1	1:J:483:GLU:HA	2.12	0.50
1:K:116:VAL:CG1	1:K:163:PHE:HB3	2.41	0.50
1:K:479:ILE:HG21	1:K:527:LEU:CD1	2.41	0.50
1:L:51:LEU:HG	1:L:104:PRO:HB3	1.92	0.50
1:L:654:VAL:HG22	1:L:676:ALA:HB3	1.92	0.50
1:L:716:ASN:HB3	1:L:719:ALA:HB2	1.91	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:242:LEU:HB3	1:A:366:GLU:HG2	1.93	0.50
1:A:465:ARG:HD3	1:F:560:ARG:NH1	2.26	0.50
3:D:612:SER:O	3:D:615:LYS:HE3	2.12	0.50
1:E:242:LEU:HB3	1:E:366:GLU:HG2	1.93	0.50
1:F:752:ILE:O	1:F:756:GLU:HG2	2.12	0.50
1:G:469:VAL:HG12	1:G:538:ASN:HB3	1.93	0.50
1:G:494:GLN:HG2	1:G:498:GLU:HG3	1.92	0.50
1:H:371:ILE:CD1	1:H:466:GLU:HB2	2.22	0.50
1:H:522:CYS:SG	1:H:647:LEU:HD23	2.51	0.50
1:I:138:TYR:HE2	1:I:155:ARG:H	1.58	0.50
1:I:608:MET:HG2	1:I:619:ILE:CD1	2.41	0.50
1:J:220:VAL:O	1:J:220:VAL:HG12	2.11	0.50
1:K:155:ARG:HG3	1:K:155:ARG:NH1	2.26	0.50
1:K:224:LEU:HD13	1:K:264:ALA:HB2	1.92	0.50
1:K:607:GLU:OE1	1:L:465:ARG:NH2	2.43	0.50
1:L:371:ILE:CD1	1:L:466:GLU:HB2	2.22	0.50
1:A:270:ASN:OD1	1:A:272:PRO:HD2	2.10	0.50
1:A:329:LEU:CD2	1:A:357:LEU:HD23	2.41	0.50
1:A:390:LEU:CD1	1:A:394:VAL:HG21	2.42	0.50
1:B:329:LEU:HD23	1:B:357:LEU:HD23	1.93	0.50
3:D:210:ARG:HG3	3:D:212:GLN:HE22	1.76	0.50
3:D:710:GLU:OE2	3:D:713:ARG:CZ	2.58	0.50
1:E:358:ARG:NH1	1:E:358:ARG:HG2	2.25	0.50
1:E:752:ILE:O	1:E:756:GLU:HG2	2.12	0.50
1:G:118:PRO:CB	1:G:188:PRO:HA	2.35	0.50
1:G:416:SER:O	1:G:420:LEU:HD23	2.10	0.50
1:G:548:LEU:CB	1:L:602:ASN:ND2	2.74	0.50
1:H:222:LEU:HD21	1:I:424:ARG:CG	2.39	0.50
1:J:467:THR:HG23	1:J:565:LYS:HE2	1.93	0.50
1:K:462:SER:O	1:K:463:ALA:HB3	2.10	0.50
1:K:483:GLU:OE1	1:K:483:GLU:HA	2.12	0.50
1:L:483:GLU:HA	1:L:483:GLU:OE1	2.12	0.50
1:L:522:CYS:SG	1:L:647:LEU:HD23	2.51	0.50
1:A:482:LEU:O	1:A:486:LYS:N	2.33	0.50
1:B:479:ILE:HG21	1:B:527:LEU:HD21	1.94	0.50
1:B:752:ILE:O	1:B:756:GLU:HG2	2.12	0.50
1:B:775:SER:HB3	2:C:733:ARG:NH2	2.26	0.50
2:C:242:LEU:HB3	2:C:366:GLU:HG2	1.93	0.50
2:C:775:SER:HB3	3:D:733:ARG:NH2	2.26	0.50
3:D:321:GLU:HA	3:D:324:ILE:HG22	1.93	0.50
3:D:463:ALA:HB1	3:D:466:GLU:CG	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:751:ASP:OD1	1:E:754:LYS:HE2	2.11	0.50
1:F:463:ALA:HB1	1:F:466:GLU:CG	2.41	0.50
1:G:27:ILE:HG21	1:G:81:LYS:HG2	1.93	0.50
1:G:378:LEU:O	1:G:382:GLN:OE1	2.28	0.50
1:G:522:CYS:SG	1:G:647:LEU:HD23	2.51	0.50
1:G:716:ASN:HB3	1:G:719:ALA:HB2	1.91	0.50
1:H:115:HIS:HB3	1:H:167:GLU:O	2.11	0.50
1:H:608:MET:HG2	1:H:619:ILE:CD1	2.41	0.50
1:I:41:LEU:HD12	1:I:71:VAL:HG13	1.90	0.50
1:I:716:ASN:HB3	1:I:719:ALA:HB2	1.90	0.50
1:J:479:ILE:HG21	1:J:527:LEU:CD1	2.41	0.50
1:K:89:ARG:HG2	1:K:94:VAL:O	2.12	0.50
1:K:220:VAL:O	1:K:220:VAL:HG12	2.11	0.50
1:L:284:SER:O	1:L:288:LYS:HG3	2.10	0.50
1:L:394:VAL:HG12	1:L:449:MET:CB	2.41	0.50
1:A:239:ARG:NH2	1:A:337:GLN:HB3	2.27	0.50
1:B:206:ILE:CG2	1:B:213:LEU:HD22	2.42	0.50
1:B:463:ALA:HB1	1:B:466:GLU:CG	2.41	0.50
2:C:752:ILE:HG22	1:L:766:ARG:NH2	2.27	0.50
1:F:210:ARG:HG3	1:F:212:GLN:HE22	1.75	0.50
1:F:239:ARG:NH2	1:F:337:GLN:HB3	2.27	0.50
1:G:51:LEU:HG	1:G:104:PRO:HB3	1.92	0.50
1:G:479:ILE:HG21	1:G:527:LEU:CD1	2.42	0.50
1:J:299:ALA:O	1:J:341:VAL:HA	2.11	0.50
1:J:469:VAL:HG12	1:J:538:ASN:HB3	1.93	0.50
1:K:608:MET:HG2	1:K:619:ILE:CD1	2.41	0.50
1:A:751:ASP:OD1	1:A:754:LYS:HE2	2.11	0.50
1:A:752:ILE:O	1:A:756:GLU:HG2	2.12	0.50
1:B:239:ARG:NH2	1:B:337:GLN:HB3	2.27	0.50
1:B:242:LEU:HB3	1:B:366:GLU:HG2	1.93	0.50
2:C:321:GLU:HA	2:C:324:ILE:HG22	1.93	0.50
2:C:612:SER:O	2:C:615:LYS:HE3	2.12	0.50
3:D:239:ARG:HH21	3:D:337:GLN:HB3	1.77	0.50
1:E:493:VAL:O	1:E:496:PRO:HD2	2.12	0.50
1:E:578:GLU:HG3	1:E:578:GLU:O	2.11	0.50
1:G:115:HIS:HB3	1:G:167:GLU:O	2.11	0.50
1:G:608:MET:HG2	1:G:619:ILE:CD1	2.42	0.50
1:I:115:HIS:HB3	1:I:167:GLU:O	2.11	0.50
1:I:469:VAL:HG12	1:I:538:ASN:HB3	1.93	0.50
1:J:89:ARG:HG2	1:J:94:VAL:O	2.12	0.50
1:J:394:VAL:HG12	1:J:449:MET:CB	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:467:THR:HG23	1:K:565:LYS:HE2	1.93	0.50
1:L:89:ARG:HG2	1:L:94:VAL:O	2.12	0.50
1:L:116:VAL:CG1	1:L:163:PHE:HB3	2.41	0.50
1:A:206:ILE:CG2	1:A:213:LEU:HD22	2.42	0.50
1:A:464:LEU:CD2	1:F:613:THR:HG21	2.42	0.50
1:A:502:LYS:HD2	1:B:703:ILE:HG12	1.94	0.50
1:B:286:LEU:HD21	1:B:328:LEU:CD1	2.35	0.50
1:B:482:LEU:O	1:B:486:LYS:N	2.34	0.50
1:B:578:GLU:HG3	1:B:578:GLU:O	2.11	0.50
1:E:210:ARG:HG3	1:E:212:GLN:HE22	1.75	0.50
1:E:329:LEU:CD2	1:E:357:LEU:HD23	2.41	0.50
1:E:463:ALA:HB1	1:E:466:GLU:CG	2.41	0.50
1:E:612:SER:O	1:E:615:LYS:HE3	2.12	0.50
1:F:578:GLU:HG3	1:F:578:GLU:O	2.11	0.50
1:G:467:THR:HG23	1:G:565:LYS:HE2	1.93	0.50
1:H:390:LEU:HG	1:H:394:VAL:HG21	1.91	0.50
1:H:483:GLU:OE1	1:H:483:GLU:HA	2.12	0.50
1:H:686:ASP:OD1	1:H:746:SER:OG	2.18	0.50
1:I:371:ILE:CD1	1:I:466:GLU:HB2	2.22	0.50
1:I:467:THR:HG23	1:I:565:LYS:HE2	1.93	0.50
1:J:445:LEU:HD12	1:J:445:LEU:O	2.12	0.50
1:J:502:LYS:HZ2	1:K:706:GLU:HG3	1.77	0.50
1:K:42:SER:HB2	1:K:44:PRO:HD2	1.94	0.50
1:K:51:LEU:HG	1:K:104:PRO:HB3	1.92	0.50
1:K:299:ALA:O	1:K:341:VAL:HA	2.11	0.50
1:K:445:LEU:HD12	1:K:445:LEU:O	2.12	0.50
1:A:479:ILE:HG21	1:A:527:LEU:HD21	1.94	0.50
1:A:493:VAL:O	1:A:496:PRO:HD2	2.12	0.50
1:A:607:GLU:OE1	1:B:465:ARG:NH1	2.43	0.50
2:C:206:ILE:CG2	2:C:213:LEU:HD22	2.42	0.50
2:C:476:TRP:CG	2:C:486:LYS:HE2	2.47	0.50
3:D:611:MET:CG	3:D:612:SER:H	2.17	0.50
1:F:603:GLN:O	1:F:607:GLU:HG2	2.11	0.50
1:G:483:GLU:OE1	1:G:483:GLU:HA	2.12	0.50
1:G:771:PHE:CE1	1:H:740:MET:HG3	2.46	0.50
1:H:220:VAL:O	1:H:220:VAL:HG12	2.11	0.50
1:I:27:ILE:HG21	1:I:81:LYS:HG2	1.93	0.50
1:I:229:LEU:O	1:I:233:ILE:HG22	2.12	0.50
1:J:273:GLU:HA	1:J:273:GLU:OE1	2.10	0.50
1:K:89:ARG:HG3	1:K:94:VAL:HG23	1.94	0.50
1:L:299:ALA:O	1:L:341:VAL:HA	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:210:ARG:HG3	1:A:212:GLN:HE22	1.75	0.50
2:C:578:GLU:HG3	2:C:578:GLU:O	2.11	0.50
1:E:239:ARG:HH21	1:E:337:GLN:HB3	1.77	0.50
1:F:299:ALA:O	1:F:341:VAL:HA	2.12	0.50
1:G:381:LEU:HD13	1:G:399:VAL:HG13	1.93	0.50
1:I:204:ASP:OD1	1:I:205:ASP:N	2.45	0.50
1:J:204:ASP:OD1	1:J:205:ASP:N	2.45	0.50
1:J:608:MET:HG2	1:J:619:ILE:CD1	2.41	0.50
1:K:290:PHE:CD1	1:K:331:LEU:HD13	2.47	0.50
1:K:371:ILE:CG2	1:K:372:PRO:HD2	2.42	0.50
1:K:502:LYS:NZ	1:L:703:ILE:HA	2.26	0.50
1:L:115:HIS:HB3	1:L:167:GLU:O	2.11	0.50
1:L:445:LEU:O	1:L:445:LEU:HD12	2.12	0.50
1:A:540:ILE:HG13	1:A:572:CYS:SG	2.52	0.49
2:C:239:ARG:NH2	2:C:337:GLN:HB3	2.27	0.49
2:C:479:ILE:HG21	2:C:527:LEU:HD21	1.94	0.49
3:D:206:ILE:CG2	3:D:213:LEU:HD22	2.42	0.49
3:D:230:PHE:HA	3:D:233:ILE:CG2	2.42	0.49
3:D:252:THR:HG1	3:D:302:PHE:HE2	1.59	0.49
3:D:327:GLN:HA	1:E:276:SER:HB2	1.93	0.49
3:D:329:LEU:HD23	3:D:357:LEU:HD23	1.93	0.49
1:E:751:ASP:HA	1:E:754:LYS:HE2	1.94	0.49
1:G:51:LEU:HD11	1:G:104:PRO:CB	2.42	0.49
1:G:299:ALA:O	1:G:341:VAL:HA	2.11	0.49
1:G:501:ASP:OD1	1:G:502:LYS:N	2.45	0.49
1:G:578:GLU:CG	1:G:578:GLU:O	2.60	0.49
1:H:42:SER:HB2	1:H:44:PRO:HD2	1.94	0.49
1:I:501:ASP:OD1	1:I:502:LYS:N	2.45	0.49
1:J:51:LEU:HD11	1:J:104:PRO:CB	2.42	0.49
1:J:89:ARG:HG3	1:J:94:VAL:HG23	1.94	0.49
1:J:191:ARG:CZ	1:J:192:GLU:HG2	2.42	0.49
1:J:229:LEU:O	1:J:233:ILE:HG22	2.12	0.49
1:J:290:PHE:CD1	1:J:331:LEU:HD13	2.47	0.49
1:J:371:ILE:CG2	1:J:372:PRO:HD2	2.41	0.49
1:J:686:ASP:OD1	1:J:746:SER:OG	2.18	0.49
1:K:764:GLN:HB2	1:L:742:PHE:C	2.32	0.49
1:L:371:ILE:CG2	1:L:372:PRO:HD2	2.41	0.49
1:A:752:ILE:HG22	1:H:766:ARG:NH2	2.25	0.49
1:B:321:GLU:HA	1:B:324:ILE:HG22	1.93	0.49
1:B:612:SER:O	1:B:615:LYS:HE3	2.12	0.49
3:D:508:MET:CE	1:E:696:LYS:HB2	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:321:GLU:HA	1:E:324:ILE:HG22	1.93	0.49
1:E:329:LEU:HD23	1:E:357:LEU:HD23	1.93	0.49
1:F:489:LEU:HD21	1:F:516:PHE:CE1	2.46	0.49
1:F:540:ILE:HG13	1:F:572:CYS:SG	2.53	0.49
1:G:51:LEU:HB3	1:G:55:ASP:OD2	2.13	0.49
1:G:157:GLY:H	1:G:389:LYS:HZ2	1.56	0.49
1:G:191:ARG:CZ	1:G:192:GLU:HG2	2.42	0.49
1:G:602:ASN:ND2	1:H:548:LEU:HB3	2.25	0.49
1:G:729:PRO:O	1:G:730:GLU:HG3	2.13	0.49
1:H:299:ALA:O	1:H:341:VAL:HA	2.11	0.49
1:H:333:ASP:CG	1:H:362:ARG:HE	2.16	0.49
1:H:469:VAL:HG12	1:H:538:ASN:HB3	1.93	0.49
1:I:89:ARG:HG2	1:I:94:VAL:O	2.12	0.49
1:L:27:ILE:HG21	1:L:81:LYS:HG2	1.93	0.49
1:L:51:LEU:HB3	1:L:55:ASP:OD2	2.13	0.49
1:L:714:GLN:HG2	1:L:714:GLN:O	2.12	0.49
1:A:336:LYS:CE	1:A:338:ARG:HD2	2.43	0.49
1:A:463:ALA:HB1	1:A:466:GLU:CG	2.41	0.49
2:C:358:ARG:NH1	2:C:358:ARG:HG2	2.25	0.49
3:D:601:ILE:O	3:D:605:LEU:HG	2.13	0.49
3:D:751:ASP:HA	3:D:754:LYS:HE2	1.94	0.49
3:D:752:ILE:O	3:D:756:GLU:HG2	2.12	0.49
1:E:206:ILE:CG2	1:E:213:LEU:HD22	2.42	0.49
1:E:540:ILE:HG13	1:E:572:CYS:SG	2.52	0.49
1:G:772:ARG:NH2	1:H:741:ARG:HH22	2.10	0.49
1:H:27:ILE:HG21	1:H:81:LYS:HG2	1.93	0.49
1:H:316:THR:HG21	1:H:321:GLU:CG	2.23	0.49
1:H:381:LEU:HD13	1:H:399:VAL:HG13	1.93	0.49
1:I:26:LEU:HD23	1:I:100:ILE:CG1	2.38	0.49
1:I:729:PRO:O	1:I:730:GLU:HG3	2.13	0.49
1:J:155:ARG:HG3	1:J:155:ARG:NH1	2.26	0.49
1:J:501:ASP:OD1	1:J:502:LYS:N	2.45	0.49
1:L:312:LYS:CB	1:L:315:LYS:HD3	2.43	0.49
1:L:329:LEU:HD21	1:L:357:LEU:CD2	2.29	0.49
1:L:381:LEU:HD13	1:L:399:VAL:HG13	1.93	0.49
1:L:501:ASP:OD1	1:L:502:LYS:N	2.45	0.49
1:A:235:VAL:HG11	1:B:420:LEU:HD21	1.94	0.49
1:A:462:SER:OG	1:F:360:PHE:HZ	1.96	0.49
1:B:390:LEU:CD1	1:B:394:VAL:HG21	2.42	0.49
1:B:482:LEU:CD1	1:B:527:LEU:HD21	2.40	0.49
1:B:611:MET:CG	1:B:612:SER:H	2.17	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:751:ASP:HA	2:C:754:LYS:HE2	1.94	0.49
3:D:210:ARG:NH2	3:D:469:VAL:O	2.43	0.49
3:D:219:MET:HG2	3:D:365:ARG:HH22	1.78	0.49
3:D:578:GLU:HG3	3:D:578:GLU:O	2.11	0.49
1:F:336:LYS:CE	1:F:338:ARG:HD2	2.42	0.49
1:F:476:TRP:CG	1:F:486:LYS:HE2	2.47	0.49
1:H:204:ASP:OD1	1:H:205:ASP:N	2.45	0.49
1:H:371:ILE:CG2	1:H:372:PRO:HD2	2.41	0.49
1:I:89:ARG:HG3	1:I:94:VAL:HG23	1.94	0.49
1:I:118:PRO:CB	1:I:188:PRO:HA	2.35	0.49
1:K:51:LEU:HB3	1:K:55:ASP:OD2	2.13	0.49
1:K:394:VAL:HG12	1:K:449:MET:CB	2.41	0.49
1:L:26:LEU:HD22	1:L:102:ILE:HB	1.95	0.49
1:L:89:ARG:HG3	1:L:94:VAL:HG23	1.94	0.49
1:L:290:PHE:CD1	1:L:331:LEU:HD13	2.47	0.49
1:L:347:THR:HG21	1:L:353:ILE:HG23	1.94	0.49
1:L:479:ILE:CG2	1:L:482:LEU:HD12	2.42	0.49
1:L:578:GLU:CG	1:L:578:GLU:O	2.60	0.49
1:L:729:PRO:O	1:L:730:GLU:HG3	2.12	0.49
1:A:204:ASP:OD1	1:A:205:ASP:N	2.45	0.49
2:C:230:PHE:HA	2:C:233:ILE:CG2	2.42	0.49
2:C:601:ILE:O	2:C:605:LEU:HG	2.13	0.49
3:D:476:TRP:CG	3:D:486:LYS:HE2	2.47	0.49
1:E:601:ILE:O	1:E:605:LEU:HG	2.13	0.49
1:F:751:ASP:HA	1:F:754:LYS:HE2	1.94	0.49
1:G:156:GLY:HA2	1:G:389:LYS:HZ2	1.76	0.49
1:G:220:VAL:O	1:G:220:VAL:HG12	2.11	0.49
1:G:445:LEU:HD12	1:G:445:LEU:O	2.12	0.49
1:G:479:ILE:CG2	1:G:482:LEU:HD12	2.43	0.49
1:G:773:PHE:HE2	1:H:736:PHE:CB	2.26	0.49
1:H:51:LEU:HB3	1:H:55:ASP:OD2	2.13	0.49
1:I:347:THR:HG21	1:I:353:ILE:HG23	1.94	0.49
1:J:131:PHE:HD2	1:J:135:LEU:HD12	1.78	0.49
1:K:204:ASP:OD1	1:K:205:ASP:N	2.45	0.49
1:L:156:GLY:HA2	1:L:389:LYS:HZ2	1.76	0.49
1:L:191:ARG:CZ	1:L:192:GLU:HG2	2.42	0.49
1:L:479:ILE:HG21	1:L:527:LEU:CD1	2.41	0.49
1:L:489:LEU:HB3	1:L:531:ILE:HD13	1.94	0.49
1:B:493:VAL:O	1:B:496:PRO:HD2	2.12	0.49
1:B:751:ASP:HA	1:B:754:LYS:HE2	1.94	0.49
3:D:299:ALA:O	3:D:341:VAL:HA	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:611:MET:HG3	3:D:612:SER:N	2.16	0.49
1:E:299:ALA:O	1:E:341:VAL:HA	2.12	0.49
1:F:390:LEU:CD1	1:F:394:VAL:HG21	2.42	0.49
1:F:601:ILE:O	1:F:605:LEU:HG	2.13	0.49
1:G:204:ASP:OD1	1:G:205:ASP:N	2.45	0.49
1:H:479:ILE:CG2	1:H:482:LEU:HD12	2.43	0.49
1:I:42:SER:HB2	1:I:44:PRO:HD2	1.94	0.49
1:I:191:ARG:CZ	1:I:192:GLU:HG2	2.42	0.49
1:J:26:LEU:HD22	1:J:102:ILE:HB	1.95	0.49
1:K:51:LEU:HD11	1:K:104:PRO:CB	2.42	0.49
1:K:489:LEU:HB3	1:K:531:ILE:HD13	1.94	0.49
1:K:501:ASP:OD1	1:K:502:LYS:N	2.45	0.49
1:K:578:GLU:O	1:K:578:GLU:CG	2.60	0.49
1:K:686:ASP:OD1	1:K:746:SER:OG	2.18	0.49
1:B:336:LYS:CE	1:B:338:ARG:HD2	2.43	0.49
1:B:540:ILE:HG13	1:B:572:CYS:SG	2.52	0.49
1:B:752:ILE:HG22	1:G:766:ARG:NH2	2.26	0.49
2:C:239:ARG:HH21	2:C:337:GLN:HB3	1.77	0.49
2:C:752:ILE:O	2:C:756:GLU:HG2	2.12	0.49
3:D:204:ASP:OD1	3:D:205:ASP:N	2.45	0.49
1:E:283:GLU:OE2	1:E:324:ILE:HD12	2.13	0.49
1:E:390:LEU:CD1	1:E:394:VAL:HG21	2.42	0.49
1:E:508:MET:HE3	1:F:696:LYS:HB2	1.94	0.49
1:E:771:PHE:HE1	1:F:678:MET:CG	2.22	0.49
1:F:204:ASP:OD1	1:F:205:ASP:N	2.45	0.49
1:F:493:VAL:O	1:F:496:PRO:HD2	2.12	0.49
1:G:131:PHE:HD2	1:G:135:LEU:HD12	1.78	0.49
1:G:312:LYS:CB	1:G:315:LYS:HD3	2.43	0.49
1:H:51:LEU:HD11	1:H:104:PRO:CB	2.42	0.49
1:H:729:PRO:O	1:H:730:GLU:HG3	2.12	0.49
1:I:445:LEU:HD12	1:I:445:LEU:O	2.12	0.49
1:J:27:ILE:HG21	1:J:81:LYS:HG2	1.93	0.49
1:J:403:THR:HG23	1:J:406:HIS:ND1	2.28	0.49
1:J:729:PRO:O	1:J:730:GLU:HG3	2.13	0.49
1:K:26:LEU:HD22	1:K:102:ILE:HB	1.95	0.49
1:K:191:ARG:CZ	1:K:192:GLU:HG2	2.42	0.49
1:L:204:ASP:OD1	1:L:205:ASP:N	2.45	0.49
1:A:219:MET:HG2	1:A:365:ARG:HH22	1.77	0.49
1:A:476:TRP:CG	1:A:486:LYS:HE2	2.47	0.49
1:A:574:LEU:HD23	1:A:619:ILE:HD12	1.95	0.49
1:A:601:ILE:O	1:A:605:LEU:HG	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:283:GLU:OE2	1:B:324:ILE:HD12	2.13	0.49
1:B:653:ARG:NH1	1:B:679:THR:O	2.46	0.49
2:C:540:ILE:HG13	2:C:572:CYS:SG	2.52	0.49
3:D:336:LYS:CE	3:D:338:ARG:HD2	2.43	0.49
1:E:284:SER:HB2	1:E:288:LYS:HZ3	1.78	0.49
1:E:476:TRP:CG	1:E:486:LYS:HE2	2.47	0.49
1:E:508:MET:CE	1:F:696:LYS:HB2	2.43	0.49
1:F:574:LEU:HD23	1:F:619:ILE:HD12	1.95	0.49
1:F:612:SER:O	1:F:615:LYS:HE3	2.12	0.49
1:G:26:LEU:HD22	1:G:102:ILE:HB	1.95	0.49
1:G:42:SER:HB2	1:G:44:PRO:HD2	1.94	0.49
1:G:230:PHE:CZ	1:H:420:LEU:HD11	2.47	0.49
1:H:26:LEU:HD22	1:H:102:ILE:HB	1.95	0.49
1:H:118:PRO:CB	1:H:188:PRO:HA	2.35	0.49
1:H:347:THR:HG21	1:H:353:ILE:HG23	1.94	0.49
1:H:403:THR:HG23	1:H:406:HIS:ND1	2.28	0.49
1:H:578:GLU:O	1:H:578:GLU:CG	2.60	0.49
1:I:26:LEU:HD22	1:I:102:ILE:HB	1.95	0.49
1:I:290:PHE:CD1	1:I:331:LEU:HD13	2.47	0.49
1:I:312:LYS:CB	1:I:315:LYS:HD3	2.43	0.49
1:I:479:ILE:HG21	1:I:527:LEU:CD1	2.41	0.49
1:I:479:ILE:CG2	1:I:482:LEU:HD12	2.43	0.49
1:K:479:ILE:CG2	1:K:482:LEU:HD12	2.43	0.49
1:K:729:PRO:O	1:K:730:GLU:HG3	2.13	0.49
1:L:149:GLY:HA2	1:L:164:LYS:CE	2.36	0.49
1:L:467:THR:HG23	1:L:565:LYS:HE2	1.93	0.49
1:B:204:ASP:OD1	1:B:205:ASP:N	2.45	0.49
1:B:230:PHE:HA	1:B:233:ILE:CG2	2.42	0.49
1:B:753:ARG:HH12	1:G:761:THR:HA	1.77	0.49
2:C:758:PHE:O	2:C:761:THR:HB	2.13	0.49
3:D:243:LEU:HD11	3:D:344:MET:HE2	1.95	0.49
3:D:327:GLN:HA	1:E:276:SER:CB	2.43	0.49
3:D:390:LEU:CD1	3:D:394:VAL:HG21	2.42	0.49
3:D:479:ILE:HG21	3:D:527:LEU:HD21	1.94	0.49
1:F:230:PHE:HA	1:F:233:ILE:CG2	2.42	0.49
1:F:479:ILE:HG21	1:F:527:LEU:HD21	1.94	0.49
1:G:89:ARG:HG2	1:G:94:VAL:O	2.11	0.49
1:G:379:GLU:O	1:G:383:ILE:CD1	2.54	0.49
1:G:714:GLN:O	1:G:714:GLN:HG2	2.12	0.49
1:G:733:ARG:O	1:G:737:GLU:OE1	2.30	0.49
1:H:191:ARG:CZ	1:H:192:GLU:HG2	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:229:LEU:O	1:H:233:ILE:HG22	2.12	0.49
1:H:376:GLY:O	1:H:380:ILE:HG13	2.13	0.49
1:I:491:GLU:OE1	1:J:700:ARG:HD3	2.12	0.49
1:I:771:PHE:CE1	1:J:740:MET:HG3	2.47	0.49
1:J:35:ASP:OD1	1:J:35:ASP:N	2.46	0.49
1:J:51:LEU:HB3	1:J:55:ASP:OD2	2.13	0.49
1:K:391:ALA:CB	1:K:448:THR:HA	2.43	0.49
1:L:333:ASP:CG	1:L:362:ARG:HE	2.16	0.49
1:A:283:GLU:OE2	1:A:324:ILE:HD12	2.13	0.49
1:A:751:ASP:HA	1:A:754:LYS:HE2	1.94	0.49
1:B:607:GLU:OE1	2:C:465:ARG:NH2	2.45	0.49
2:C:219:MET:HG2	2:C:365:ARG:HH22	1.77	0.49
2:C:394:VAL:HG12	2:C:449:MET:HA	1.95	0.49
3:D:493:VAL:O	3:D:496:PRO:HD2	2.12	0.49
3:D:607:GLU:OE1	1:E:465:ARG:NH1	2.45	0.49
1:F:491:GLU:CA	1:F:495:TYR:HD2	2.11	0.49
1:G:229:LEU:O	1:G:233:ILE:HG22	2.12	0.49
1:H:312:LYS:CB	1:H:315:LYS:HD3	2.43	0.49
1:I:51:LEU:HD11	1:I:104:PRO:CB	2.42	0.49
1:I:131:PHE:HD2	1:I:135:LEU:HD12	1.78	0.49
1:I:333:ASP:CG	1:I:362:ARG:HE	2.16	0.49
1:J:347:THR:HG21	1:J:353:ILE:HG23	1.94	0.49
1:K:27:ILE:HB	1:K:81:LYS:HA	1.94	0.49
1:K:27:ILE:HG21	1:K:81:LYS:HG2	1.93	0.49
1:K:229:LEU:O	1:K:233:ILE:HG22	2.12	0.49
1:L:42:SER:HB2	1:L:44:PRO:HD2	1.94	0.49
1:L:131:PHE:HD2	1:L:135:LEU:HD12	1.78	0.49
1:L:391:ALA:CB	1:L:448:THR:HA	2.43	0.49
1:L:464:LEU:HD23	1:L:464:LEU:H	1.78	0.49
1:A:230:PHE:HA	1:A:233:ILE:CG2	2.42	0.48
1:A:284:SER:HB2	1:A:288:LYS:HZ3	1.77	0.48
1:A:330:THR:CG2	1:B:273:GLU:HA	2.43	0.48
1:A:494:GLN:HG2	1:A:498:GLU:HG3	1.95	0.48
1:A:508:MET:CE	1:B:696:LYS:HB2	2.42	0.48
1:B:299:ALA:O	1:B:341:VAL:HA	2.12	0.48
2:C:336:LYS:HE2	2:C:338:ARG:HD2	1.96	0.48
2:C:426:LYS:HD3	2:C:427:MET:HB2	1.95	0.48
2:C:653:ARG:NH1	2:C:679:THR:O	2.46	0.48
1:E:758:PHE:O	1:E:761:THR:HB	2.13	0.48
1:F:653:ARG:NH1	1:F:679:THR:O	2.46	0.48
1:G:489:LEU:HB3	1:G:531:ILE:HD13	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:515:LEU:HD11	1:G:629:ILE:CD1	2.43	0.48
1:H:290:PHE:CD1	1:H:331:LEU:HD13	2.47	0.48
1:H:391:ALA:CB	1:H:448:THR:HA	2.43	0.48
1:H:515:LEU:HD11	1:H:629:ILE:CD1	2.43	0.48
1:I:483:GLU:OE1	1:I:483:GLU:HA	2.12	0.48
1:J:489:LEU:HB3	1:J:531:ILE:HD13	1.94	0.48
1:K:312:LYS:CB	1:K:315:LYS:HD3	2.43	0.48
1:K:469:VAL:HG12	1:K:538:ASN:HB3	1.93	0.48
1:L:27:ILE:HB	1:L:81:LYS:HA	1.94	0.48
1:L:229:LEU:O	1:L:233:ILE:HG22	2.12	0.48
1:L:403:THR:HG23	1:L:406:HIS:ND1	2.28	0.48
1:B:219:MET:HG2	1:B:365:ARG:HH22	1.77	0.48
1:B:243:LEU:HD11	1:B:344:MET:HE2	1.96	0.48
1:B:336:LYS:HE2	1:B:338:ARG:HD2	1.95	0.48
1:B:601:ILE:O	1:B:605:LEU:HG	2.13	0.48
3:D:239:ARG:NH2	3:D:337:GLN:HB3	2.27	0.48
3:D:653:ARG:NH1	3:D:679:THR:O	2.46	0.48
3:D:758:PHE:O	3:D:761:THR:HB	2.13	0.48
1:E:230:PHE:HA	1:E:233:ILE:CG2	2.42	0.48
1:E:239:ARG:NH2	1:E:337:GLN:HB3	2.27	0.48
1:F:283:GLU:OE2	1:F:324:ILE:HD12	2.13	0.48
1:G:108:VAL:CG2	1:G:175:ILE:HB	2.43	0.48
1:G:290:PHE:CD1	1:G:331:LEU:HD13	2.47	0.48
1:G:403:THR:HG23	1:G:406:HIS:ND1	2.28	0.48
1:H:26:LEU:HD23	1:H:100:ILE:CG1	2.38	0.48
1:I:27:ILE:HB	1:I:81:LYS:HA	1.94	0.48
1:I:608:MET:HG2	1:I:619:ILE:HD13	1.96	0.48
1:J:259:ALA:CB	1:J:266:PHE:HB2	2.43	0.48
1:J:332:MET:SD	1:J:343:VAL:HG11	2.54	0.48
1:J:578:GLU:CG	1:J:578:GLU:O	2.60	0.48
1:K:485:VAL:CG1	1:K:527:LEU:HD21	2.43	0.48
1:L:51:LEU:HD11	1:L:104:PRO:CB	2.42	0.48
1:L:259:ALA:CB	1:L:266:PHE:HB2	2.43	0.48
1:L:376:GLY:O	1:L:380:ILE:HG13	2.13	0.48
1:L:399:VAL:O	1:L:403:THR:OG1	2.22	0.48
1:A:472:PRO:HD3	1:A:539:PHE:HB3	1.96	0.48
1:B:239:ARG:HH21	1:B:337:GLN:HB3	1.77	0.48
1:B:472:PRO:HD3	1:B:539:PHE:HB3	1.96	0.48
1:B:494:GLN:HG2	1:B:498:GLU:HG3	1.95	0.48
1:B:763:GLN:OE1	1:B:763:GLN:HA	2.13	0.48
2:C:243:LEU:HD11	2:C:344:MET:HE2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:336:LYS:CE	2:C:338:ARG:HD2	2.42	0.48
3:D:505:LYS:NZ	1:E:729:PRO:O	2.45	0.48
1:E:653:ARG:NH1	1:E:679:THR:O	2.46	0.48
1:E:728:VAL:HG23	1:E:732:ARG:CD	2.43	0.48
1:F:316:THR:HG22	1:F:322:ARG:HG2	1.95	0.48
1:F:758:PHE:O	1:F:761:THR:HB	2.13	0.48
1:G:653:ARG:HG2	1:G:687:LEU:HD11	1.95	0.48
1:H:108:VAL:CG2	1:H:175:ILE:HB	2.43	0.48
1:H:332:MET:SD	1:H:343:VAL:HG11	2.54	0.48
1:I:733:ARG:O	1:I:737:GLU:OE1	2.30	0.48
1:J:42:SER:HB2	1:J:44:PRO:HD2	1.94	0.48
1:K:333:ASP:CG	1:K:362:ARG:HE	2.16	0.48
1:B:476:TRP:CG	1:B:486:LYS:HE2	2.47	0.48
1:B:574:LEU:HD23	1:B:619:ILE:HD12	1.95	0.48
1:B:728:VAL:HG23	1:B:732:ARG:CD	2.43	0.48
2:C:204:ASP:OD1	2:C:205:ASP:N	2.45	0.48
2:C:299:ALA:O	2:C:341:VAL:HA	2.12	0.48
2:C:493:VAL:O	2:C:496:PRO:HD2	2.12	0.48
3:D:336:LYS:HE2	3:D:338:ARG:HD2	1.95	0.48
1:E:336:LYS:CE	1:E:338:ARG:HD2	2.43	0.48
1:E:574:LEU:HD23	1:E:619:ILE:HD12	1.95	0.48
1:F:239:ARG:HH21	1:F:337:GLN:HB3	1.77	0.48
1:F:472:PRO:HD3	1:F:539:PHE:HB3	1.96	0.48
1:G:333:ASP:CG	1:G:362:ARG:HE	2.16	0.48
1:G:376:GLY:O	1:G:380:ILE:HG13	2.13	0.48
1:H:501:ASP:OD1	1:H:502:LYS:N	2.45	0.48
1:I:259:ALA:CB	1:I:266:PHE:HB2	2.43	0.48
1:I:316:THR:HG21	1:I:321:GLU:CG	2.23	0.48
1:I:332:MET:SD	1:I:343:VAL:HG11	2.54	0.48
1:J:27:ILE:HB	1:J:81:LYS:HA	1.94	0.48
1:J:391:ALA:CB	1:J:448:THR:HA	2.43	0.48
1:J:608:MET:HG2	1:J:619:ILE:HD13	1.96	0.48
1:J:714:GLN:O	1:J:714:GLN:HG2	2.12	0.48
1:K:403:THR:HG23	1:K:406:HIS:ND1	2.28	0.48
1:K:733:ARG:O	1:K:737:GLU:OE1	2.30	0.48
1:L:250:GLY:HA2	4:L:801:ADP:O2A	2.14	0.48
1:A:239:ARG:HH21	1:A:337:GLN:HB3	1.77	0.48
1:A:394:VAL:HG12	1:A:449:MET:HA	1.95	0.48
1:A:728:VAL:HG23	1:A:732:ARG:CD	2.43	0.48
3:D:283:GLU:OE2	3:D:324:ILE:HD12	2.13	0.48
1:E:472:PRO:HD3	1:E:539:PHE:HB3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:479:ILE:HG21	1:E:527:LEU:HD21	1.94	0.48
1:F:206:ILE:CG2	1:F:213:LEU:HD22	2.42	0.48
1:F:358:ARG:NH1	1:F:358:ARG:HG2	2.25	0.48
1:F:426:LYS:HD3	1:F:427:MET:HB2	1.95	0.48
1:F:482:LEU:CD1	1:F:527:LEU:HD21	2.40	0.48
1:G:347:THR:HG21	1:G:353:ILE:HG23	1.94	0.48
1:H:35:ASP:OD1	1:H:35:ASP:N	2.46	0.48
1:H:467:THR:HG23	1:H:565:LYS:HE2	1.93	0.48
1:H:608:MET:HG2	1:H:619:ILE:HD13	1.96	0.48
1:I:487:ARG:HH22	1:J:700:ARG:HH11	1.60	0.48
1:I:515:LEU:HD11	1:I:629:ILE:CD1	2.43	0.48
1:J:26:LEU:HD23	1:J:100:ILE:CG1	2.38	0.48
1:J:312:LYS:CB	1:J:315:LYS:HD3	2.43	0.48
1:J:464:LEU:HD23	1:J:464:LEU:H	1.78	0.48
1:J:605:LEU:HD21	1:J:633:ILE:CD1	2.26	0.48
1:K:84:MET:HE3	1:K:88:VAL:HG23	1.96	0.48
1:K:336:LYS:O	1:K:337:GLN:CG	2.54	0.48
1:K:464:LEU:HD23	1:K:464:LEU:H	1.78	0.48
1:A:360:PHE:HZ	1:B:462:SER:OG	1.95	0.48
1:A:426:LYS:HD3	1:A:427:MET:HB2	1.95	0.48
2:C:502:LYS:CD	3:D:703:ILE:HG12	2.43	0.48
3:D:426:LYS:HD3	3:D:427:MET:HB2	1.95	0.48
1:E:394:VAL:HG12	1:E:449:MET:HA	1.95	0.48
1:F:201:VAL:HG12	1:F:260:ASN:HD22	1.79	0.48
1:F:394:VAL:HG12	1:F:449:MET:HA	1.95	0.48
1:G:89:ARG:HG3	1:G:94:VAL:HG23	1.94	0.48
1:G:391:ALA:CB	1:G:448:THR:HA	2.43	0.48
1:G:741:ARG:HH22	1:L:772:ARG:NH2	2.12	0.48
1:H:131:PHE:HD2	1:H:135:LEU:HD12	1.78	0.48
1:H:336:LYS:O	1:H:337:GLN:CG	2.54	0.48
1:H:445:LEU:HD12	1:H:445:LEU:O	2.12	0.48
1:J:250:GLY:HA2	4:J:801:ADP:O2A	2.14	0.48
1:J:479:ILE:CG2	1:J:482:LEU:HD12	2.42	0.48
1:J:485:VAL:CG1	1:J:527:LEU:HD21	2.43	0.48
1:J:615:LYS:HE3	1:K:402:GLU:OE1	2.12	0.48
1:K:332:MET:SD	1:K:343:VAL:HG11	2.54	0.48
1:K:721:GLU:CD	1:K:721:GLU:H	2.17	0.48
1:L:468:VAL:CG2	1:L:470:GLU:OE1	2.58	0.48
1:L:485:VAL:CG1	1:L:527:LEU:HD21	2.43	0.48
1:L:733:ARG:O	1:L:737:GLU:OE1	2.30	0.48
1:A:316:THR:HG22	1:A:322:ARG:HG2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:482:LEU:CD1	1:A:527:LEU:HD21	2.40	0.48
1:A:497:VAL:HG12	5:A:802:Y6Y:C16	2.44	0.48
1:A:578:GLU:HG3	1:A:578:GLU:O	2.11	0.48
1:A:612:SER:O	1:A:615:LYS:HE3	2.12	0.48
1:A:678:MET:HG3	1:F:771:PHE:HE1	1.78	0.48
2:C:763:GLN:OE1	2:C:763:GLN:HA	2.13	0.48
3:D:358:ARG:NH1	3:D:358:ARG:HG2	2.25	0.48
3:D:728:VAL:HG23	3:D:732:ARG:CD	2.43	0.48
1:F:284:SER:HB2	1:F:288:LYS:HZ3	1.79	0.48
1:G:35:ASP:N	1:G:35:ASP:OD1	2.46	0.48
1:G:485:VAL:CG1	1:G:527:LEU:HD21	2.43	0.48
1:H:89:ARG:HG3	1:H:94:VAL:HG23	1.94	0.48
1:H:136:LYS:HB2	1:H:137:PRO:HD3	1.96	0.48
1:H:489:LEU:HB3	1:H:531:ILE:HD13	1.94	0.48
1:H:669:ASP:OD2	1:H:733:ARG:CD	2.61	0.48
1:I:376:GLY:O	1:I:380:ILE:HG13	2.13	0.48
1:I:391:ALA:CB	1:I:448:THR:HA	2.43	0.48
1:J:230:PHE:CZ	1:K:420:LEU:HD11	2.49	0.48
1:K:35:ASP:N	1:K:35:ASP:OD1	2.46	0.48
1:K:394:VAL:CG1	1:K:449:MET:HA	2.44	0.48
1:K:515:LEU:HD11	1:K:629:ILE:CD1	2.43	0.48
1:L:238:PRO:O	1:L:342:ILE:HD12	2.14	0.48
1:L:515:LEU:HD11	1:L:629:ILE:CD1	2.43	0.48
1:A:299:ALA:O	1:A:341:VAL:HA	2.12	0.48
1:A:758:PHE:O	1:A:761:THR:HB	2.13	0.48
1:A:763:GLN:HA	1:A:763:GLN:OE1	2.13	0.48
1:B:654:VAL:HG22	1:B:676:ALA:HB3	1.96	0.48
2:C:472:PRO:HD3	2:C:539:PHE:HB3	1.96	0.48
3:D:472:PRO:HD3	3:D:539:PHE:HB3	1.96	0.48
3:D:574:LEU:HD23	3:D:619:ILE:HD12	1.95	0.48
3:D:600:VAL:O	3:D:604:ILE:HG13	2.14	0.48
1:F:760:GLN:CG	1:I:760:GLN:HE22	2.26	0.48
1:G:259:ALA:CB	1:G:266:PHE:HB2	2.43	0.48
1:G:394:VAL:CG1	1:G:449:MET:HA	2.44	0.48
1:G:608:MET:HG2	1:G:619:ILE:HD13	1.96	0.48
1:H:27:ILE:HB	1:H:81:LYS:HA	1.94	0.48
1:H:733:ARG:O	1:H:737:GLU:OE1	2.30	0.48
1:I:250:GLY:HA2	4:I:801:ADP:O2A	2.14	0.48
1:I:403:THR:HG23	1:I:406:HIS:ND1	2.28	0.48
1:I:464:LEU:H	1:I:464:LEU:HD23	1.78	0.48
1:I:489:LEU:HB3	1:I:531:ILE:HD13	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:733:ARG:O	1:J:737:GLU:OE1	2.30	0.48
1:K:714:GLN:O	1:K:714:GLN:HG2	2.13	0.48
1:L:653:ARG:HG2	1:L:687:LEU:HD11	1.96	0.48
1:L:721:GLU:H	1:L:721:GLU:CD	2.17	0.48
1:A:653:ARG:NH1	1:A:679:THR:O	2.46	0.48
1:B:426:LYS:HD3	1:B:427:MET:HB2	1.95	0.48
3:D:286:LEU:HD21	3:D:328:LEU:CD1	2.35	0.48
3:D:491:GLU:CA	3:D:495:TYR:HD2	2.11	0.48
1:E:497:VAL:HG12	5:E:802:Y6Y:C16	2.44	0.48
1:E:763:GLN:OE1	1:E:763:GLN:HA	2.13	0.48
1:E:766:ARG:HG3	1:J:756:GLU:OE2	2.14	0.48
1:F:697:LEU:HD23	1:F:700:ARG:NH2	2.29	0.48
1:F:728:VAL:HG23	1:F:732:ARG:CD	2.43	0.48
1:G:228:ALA:HB3	1:H:433:GLU:OE2	2.14	0.48
1:H:394:VAL:CG1	1:H:449:MET:HA	2.44	0.48
1:H:578:GLU:O	1:H:578:GLU:HG3	2.14	0.48
1:I:317:HIS:HE1	1:J:318:GLY:CA	2.26	0.48
1:I:410:ASP:OD2	1:I:462:SER:OG	2.22	0.48
1:J:136:LYS:HB2	1:J:137:PRO:HD3	1.96	0.48
1:J:336:LYS:O	1:J:337:GLN:CG	2.54	0.48
1:K:84:MET:HE1	1:K:89:ARG:HA	1.96	0.48
1:K:250:GLY:HA2	4:K:801:ADP:O2A	2.14	0.48
1:K:259:ALA:CB	1:K:266:PHE:HB2	2.43	0.48
1:K:602:ASN:ND2	1:L:548:LEU:CB	2.77	0.48
1:L:108:VAL:CG2	1:L:175:ILE:HB	2.43	0.48
1:A:336:LYS:HE2	1:A:338:ARG:HD2	1.96	0.48
1:A:654:VAL:HG22	1:A:676:ALA:HB3	1.96	0.48
2:C:559:VAL:HG12	2:C:607:GLU:HG3	1.96	0.48
3:D:540:ILE:HG13	3:D:572:CYS:SG	2.53	0.48
3:D:763:GLN:OE1	3:D:763:GLN:HA	2.13	0.48
1:E:336:LYS:HE2	1:E:338:ARG:HD2	1.96	0.48
1:E:647:LEU:HD11	1:E:752:ILE:CD1	2.44	0.48
1:F:600:VAL:O	1:F:604:ILE:HG13	2.14	0.48
1:F:654:VAL:HG22	1:F:676:ALA:HB3	1.96	0.48
1:F:764:GLN:HG3	1:F:764:GLN:O	2.14	0.48
1:H:485:VAL:CG1	1:H:527:LEU:HD21	2.43	0.48
1:I:108:VAL:CG2	1:I:175:ILE:HB	2.43	0.48
1:J:333:ASP:CG	1:J:362:ARG:HE	2.16	0.48
1:J:376:GLY:O	1:J:380:ILE:HG13	2.13	0.48
1:K:108:VAL:CG2	1:K:175:ILE:HB	2.43	0.48
1:K:468:VAL:CG2	1:K:470:GLU:OE1	2.58	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:578:GLU:O	1:K:578:GLU:HG3	2.14	0.48
1:L:35:ASP:N	1:L:35:ASP:OD1	2.46	0.48
1:L:394:VAL:CG1	1:L:449:MET:HA	2.44	0.48
1:A:201:VAL:HG12	1:A:260:ASN:HD22	1.79	0.47
1:B:773:PHE:CZ	2:C:670:VAL:HG23	2.48	0.47
2:C:286:LEU:HD21	2:C:328:LEU:CD1	2.35	0.47
2:C:647:LEU:HD11	2:C:752:ILE:CD1	2.44	0.47
3:D:654:VAL:HG22	3:D:676:ALA:HB3	1.96	0.47
1:F:712:GLU:C	1:F:714:GLN:N	2.66	0.47
1:G:219:MET:HE2	1:G:365:ARG:NH1	2.22	0.47
1:G:238:PRO:O	1:G:342:ILE:HD12	2.14	0.47
1:I:51:LEU:HB3	1:I:55:ASP:OD2	2.13	0.47
1:I:155:ARG:HG3	1:I:155:ARG:NH1	2.26	0.47
1:I:485:VAL:CG1	1:I:527:LEU:HD21	2.43	0.47
1:J:468:VAL:CG2	1:J:470:GLU:OE1	2.58	0.47
1:K:131:PHE:HD2	1:K:135:LEU:HD12	1.78	0.47
1:K:406:HIS:NE2	1:K:461:PRO:HD3	2.29	0.47
1:B:235:VAL:HG11	2:C:420:LEU:HD21	1.96	0.47
1:B:758:PHE:O	1:B:761:THR:HB	2.13	0.47
2:C:574:LEU:HD23	2:C:619:ILE:HD12	1.95	0.47
2:C:728:VAL:HG23	2:C:732:ARG:CD	2.43	0.47
3:D:494:GLN:HG2	3:D:498:GLU:HG3	1.95	0.47
3:D:497:VAL:HG12	5:D:802:Y6Y:C16	2.44	0.47
3:D:697:LEU:HD23	3:D:700:ARG:NH2	2.29	0.47
3:D:710:GLU:O	3:D:713:ARG:HG3	2.15	0.47
1:E:488:GLU:O	1:E:492:LEU:HD13	2.14	0.47
1:E:611:MET:CG	1:E:612:SER:H	2.17	0.47
1:F:567:ARG:O	1:F:614:LYS:HE2	2.14	0.47
1:G:232:ALA:HB2	1:H:436:THR:HA	1.95	0.47
1:G:336:LYS:O	1:G:337:GLN:CG	2.54	0.47
1:H:259:ALA:CB	1:H:266:PHE:HB2	2.43	0.47
1:I:238:PRO:O	1:I:342:ILE:HD12	2.14	0.47
1:I:578:GLU:CG	1:I:578:GLU:O	2.60	0.47
1:I:714:GLN:HG2	1:I:714:GLN:O	2.12	0.47
1:I:764:GLN:HG3	1:J:741:ARG:O	2.14	0.47
1:J:286:LEU:HG	1:J:331:LEU:CD1	2.44	0.47
1:K:286:LEU:HG	1:K:331:LEU:CD1	2.44	0.47
1:K:571:PRO:CA	1:K:616:ASN:HB3	2.39	0.47
1:L:313:ARG:HB3	1:L:314:GLU:H	1.58	0.47
1:L:332:MET:SD	1:L:343:VAL:HG11	2.54	0.47
1:L:360:PHE:HD2	1:L:360:PHE:H	1.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:472:PRO:HG3	1:L:532:ALA:HB3	1.96	0.47
1:L:578:GLU:O	1:L:578:GLU:HG3	2.14	0.47
1:A:600:VAL:O	1:A:604:ILE:HG13	2.14	0.47
2:C:236:LYS:HG3	2:C:236:LYS:O	2.15	0.47
2:C:697:LEU:HD23	2:C:700:ARG:NH2	2.29	0.47
3:D:332:MET:HE2	3:D:363:PHE:CE2	2.49	0.47
3:D:394:VAL:HG12	3:D:449:MET:HA	1.95	0.47
1:E:201:VAL:HG12	1:E:260:ASN:HD22	1.79	0.47
1:E:286:LEU:HD21	1:E:328:LEU:CD1	2.35	0.47
1:E:494:GLN:HG2	1:E:498:GLU:HG3	1.95	0.47
1:E:567:ARG:O	1:E:614:LYS:HE2	2.14	0.47
1:E:680:ASN:OD1	1:E:681:GLY:N	2.48	0.47
1:E:764:GLN:HG3	1:E:764:GLN:O	2.14	0.47
1:F:336:LYS:HE2	1:F:338:ARG:HD2	1.96	0.47
1:F:494:GLN:HG2	1:F:498:GLU:HG3	1.95	0.47
1:G:420:LEU:CD2	1:L:235:VAL:HG11	2.44	0.47
1:G:602:ASN:ND2	1:H:548:LEU:HB2	2.29	0.47
1:H:426:LYS:CD	1:H:427:MET:H	2.25	0.47
1:H:653:ARG:HG2	1:H:687:LEU:HD11	1.95	0.47
1:H:714:GLN:O	1:H:714:GLN:HG2	2.12	0.47
1:I:168:THR:CG2	1:I:170:PRO:HD2	2.44	0.47
1:I:317:HIS:NE2	1:J:317:HIS:CD2	2.82	0.47
1:J:108:VAL:CG2	1:J:175:ILE:HB	2.43	0.47
1:J:123:VAL:HG13	1:J:124:GLU:HG3	1.97	0.47
1:J:238:PRO:O	1:J:342:ILE:HD12	2.14	0.47
1:K:376:GLY:O	1:K:380:ILE:HG13	2.13	0.47
1:K:654:VAL:HG22	1:K:676:ALA:CB	2.45	0.47
1:A:680:ASN:OD1	1:A:681:GLY:N	2.48	0.47
1:B:394:VAL:HG12	1:B:449:MET:HA	1.95	0.47
2:C:600:VAL:O	2:C:604:ILE:HG13	2.14	0.47
2:C:680:ASN:OD1	2:C:681:GLY:N	2.48	0.47
3:D:236:LYS:HG3	3:D:236:LYS:O	2.15	0.47
1:F:236:LYS:HG3	1:F:236:LYS:O	2.15	0.47
1:G:27:ILE:HB	1:G:81:LYS:HA	1.94	0.47
1:G:136:LYS:HB2	1:G:137:PRO:HD3	1.96	0.47
1:H:721:GLU:CD	1:H:721:GLU:H	2.17	0.47
1:J:220:VAL:CG1	1:J:224:LEU:HD12	2.44	0.47
1:J:602:ASN:HD21	1:K:548:LEU:CB	2.28	0.47
1:J:654:VAL:HG22	1:J:676:ALA:CB	2.45	0.47
1:K:317:HIS:CE1	1:L:318:GLY:HA2	2.49	0.47
1:K:347:THR:HG21	1:K:353:ILE:HG23	1.94	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:608:MET:HG2	1:K:619:ILE:HD13	1.96	0.47
1:L:168:THR:CG2	1:L:170:PRO:HD2	2.44	0.47
1:B:497:VAL:HG12	5:B:802:Y6Y:C16	2.44	0.47
2:C:494:GLN:HG2	2:C:498:GLU:HG3	1.95	0.47
3:D:567:ARG:O	3:D:614:LYS:HE2	2.14	0.47
1:E:204:ASP:OD1	1:E:205:ASP:N	2.45	0.47
1:E:611:MET:HG3	1:E:612:SER:N	2.16	0.47
1:E:697:LEU:HD23	1:E:700:ARG:NH2	2.29	0.47
1:F:763:GLN:OE1	1:F:763:GLN:HA	2.13	0.47
1:G:317:HIS:NE2	1:H:317:HIS:HD2	2.11	0.47
1:G:420:LEU:HD11	1:L:230:PHE:HZ	1.76	0.47
1:G:578:GLU:O	1:G:578:GLU:HG3	2.14	0.47
1:G:680:ASN:OD1	1:G:681:GLY:N	2.42	0.47
1:H:168:THR:CG2	1:H:170:PRO:HD2	2.44	0.47
1:H:238:PRO:O	1:H:342:ILE:HD12	2.14	0.47
1:I:602:ASN:ND2	1:J:548:LEU:HB2	2.28	0.47
1:J:524:LYS:HG2	1:J:645:ILE:HG13	1.97	0.47
1:J:653:ARG:HG2	1:J:687:LEU:HD11	1.95	0.47
1:L:154:VAL:HG22	1:L:161:VAL:O	2.15	0.47
1:L:608:MET:HG2	1:L:619:ILE:HD13	1.96	0.47
1:A:421:GLN:NE2	1:A:451:ASP:HA	2.30	0.47
1:B:421:GLN:NE2	1:B:451:ASP:HA	2.30	0.47
1:B:680:ASN:OD1	1:B:681:GLY:N	2.48	0.47
2:C:283:GLU:OE2	2:C:324:ILE:HD12	2.13	0.47
3:D:210:ARG:O	3:D:210:ARG:HG3	2.15	0.47
1:F:219:MET:HG2	1:F:365:ARG:HH22	1.77	0.47
1:F:680:ASN:OD1	1:F:681:GLY:N	2.48	0.47
1:G:250:GLY:HA2	4:G:801:ADP:O2A	2.14	0.47
1:H:406:HIS:NE2	1:H:461:PRO:HD3	2.29	0.47
1:H:510:PRO:HB2	5:H:802:Y6Y:C24	2.45	0.47
1:H:716:ASN:HB3	1:H:719:ALA:HB2	1.91	0.47
1:I:524:LYS:HG2	1:I:645:ILE:HG13	1.97	0.47
1:I:570:ALA:CB	1:I:614:LYS:HE3	2.45	0.47
1:I:669:ASP:OD2	1:I:733:ARG:CD	2.61	0.47
1:J:49:LEU:HD11	1:J:102:ILE:HG21	1.96	0.47
1:J:406:HIS:NE2	1:J:461:PRO:HD3	2.29	0.47
1:J:515:LEU:HD11	1:J:629:ILE:CD1	2.43	0.47
1:K:220:VAL:CG1	1:K:224:LEU:HD12	2.44	0.47
1:L:49:LEU:HD11	1:L:102:ILE:HG21	1.96	0.47
1:L:220:VAL:CG1	1:L:224:LEU:HD12	2.44	0.47
1:L:406:HIS:NE2	1:L:461:PRO:HD3	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:524:LYS:HG2	1:L:645:ILE:HG13	1.97	0.47
1:A:559:VAL:HG12	1:A:607:GLU:HG3	1.96	0.47
1:A:697:LEU:HD23	1:A:700:ARG:NH2	2.29	0.47
1:B:236:LYS:HG3	1:B:236:LYS:O	2.15	0.47
1:B:611:MET:O	1:B:612:SER:HB2	2.15	0.47
1:B:647:LEU:HD11	1:B:752:ILE:CD1	2.44	0.47
2:C:224:LEU:HD22	2:C:264:ALA:HB2	1.97	0.47
2:C:497:VAL:HG12	5:C:802:Y6Y:C16	2.44	0.47
2:C:697:LEU:HD23	2:C:700:ARG:HH22	1.80	0.47
3:D:482:LEU:O	3:D:486:LYS:N	2.34	0.47
3:D:488:GLU:O	3:D:492:LEU:HD13	2.15	0.47
3:D:574:LEU:HD23	3:D:619:ILE:CD1	2.45	0.47
3:D:611:MET:O	3:D:612:SER:HB2	2.15	0.47
3:D:647:LEU:HD11	3:D:752:ILE:CD1	2.44	0.47
3:D:697:LEU:HD23	3:D:700:ARG:HH22	1.80	0.47
1:E:327:GLN:HA	1:F:276:SER:HB2	1.97	0.47
1:E:426:LYS:HD3	1:E:427:MET:HB2	1.95	0.47
1:E:611:MET:O	1:E:612:SER:HB2	2.15	0.47
1:F:488:GLU:O	1:F:492:LEU:HD13	2.14	0.47
1:F:497:VAL:HG12	5:F:802:Y6Y:C16	2.44	0.47
1:G:49:LEU:HD11	1:G:102:ILE:HG21	1.96	0.47
1:G:332:MET:SD	1:G:343:VAL:HG11	2.54	0.47
1:G:464:LEU:HD23	1:G:464:LEU:H	1.78	0.47
1:G:570:ALA:CB	1:G:614:LYS:HE3	2.45	0.47
1:G:654:VAL:HG22	1:G:676:ALA:CB	2.45	0.47
1:G:721:GLU:H	1:G:721:GLU:CD	2.17	0.47
1:G:740:MET:HG3	1:L:771:PHE:CE1	2.49	0.47
1:H:250:GLY:HA2	4:H:801:ADP:O2A	2.14	0.47
1:H:464:LEU:HD23	1:H:464:LEU:H	1.79	0.47
1:H:654:VAL:HG22	1:H:676:ALA:CB	2.45	0.47
1:I:136:LYS:HB2	1:I:137:PRO:HD3	1.96	0.47
1:I:394:VAL:CG1	1:I:449:MET:HA	2.44	0.47
1:J:154:VAL:HG22	1:J:161:VAL:O	2.15	0.47
1:J:716:ASN:HB3	1:J:719:ALA:HB2	1.91	0.47
1:K:360:PHE:H	1:K:360:PHE:HD2	1.62	0.47
1:K:524:LYS:HG2	1:K:645:ILE:HG13	1.97	0.47
1:A:224:LEU:HD22	1:A:264:ALA:HB2	1.97	0.47
1:B:506:PHE:CD2	2:C:699:ILE:HG12	2.49	0.47
3:D:559:VAL:HG12	3:D:607:GLU:HG3	1.96	0.47
3:D:680:ASN:OD1	3:D:681:GLY:N	2.48	0.47
1:E:482:LEU:CD1	1:E:527:LEU:HD21	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:600:VAL:O	1:E:604:ILE:HG13	2.14	0.47
1:F:647:LEU:HD11	1:F:752:ILE:CD1	2.44	0.47
1:F:752:ILE:HG22	1:I:766:ARG:NH2	2.25	0.47
1:G:26:LEU:HD23	1:G:100:ILE:CG1	2.38	0.47
1:G:333:ASP:OD2	1:G:362:ARG:NH2	2.44	0.47
1:G:524:LYS:HG2	1:G:645:ILE:HG13	1.97	0.47
1:G:669:ASP:OD2	1:G:733:ARG:CD	2.61	0.47
1:H:570:ALA:CB	1:H:614:LYS:HE3	2.45	0.47
1:I:123:VAL:HG13	1:I:124:GLU:HG3	1.97	0.47
1:I:154:VAL:HG22	1:I:161:VAL:O	2.15	0.47
1:I:286:LEU:HG	1:I:331:LEU:CD1	2.44	0.47
1:I:472:PRO:HG3	1:I:532:ALA:HB3	1.97	0.47
1:I:773:PHE:CE2	1:J:736:PHE:HB3	2.47	0.47
1:J:394:VAL:CG1	1:J:449:MET:HA	2.44	0.47
1:K:238:PRO:O	1:K:342:ILE:HD12	2.14	0.47
1:K:510:PRO:HB2	5:K:802:Y6Y:C24	2.45	0.47
1:L:570:ALA:CB	1:L:614:LYS:HE3	2.45	0.47
1:A:236:LYS:HG3	1:A:236:LYS:O	2.15	0.47
1:A:699:ILE:HG12	1:F:506:PHE:CD2	2.49	0.47
1:B:567:ARG:O	1:B:614:LYS:HE2	2.14	0.47
1:B:574:LEU:HD23	1:B:619:ILE:CD1	2.45	0.47
1:B:600:VAL:O	1:B:604:ILE:HG13	2.14	0.47
2:C:210:ARG:O	2:C:210:ARG:HG3	2.15	0.47
2:C:421:GLN:NE2	2:C:451:ASP:HA	2.30	0.47
2:C:567:ARG:O	2:C:614:LYS:HE2	2.15	0.47
2:C:654:VAL:HG22	2:C:676:ALA:HB3	1.96	0.47
3:D:316:THR:HG22	3:D:322:ARG:HG2	1.95	0.47
3:D:421:GLN:NE2	3:D:451:ASP:HA	2.30	0.47
1:E:332:MET:HE2	1:E:363:PHE:CE2	2.49	0.47
1:F:559:VAL:HG12	1:F:607:GLU:HG3	1.96	0.47
1:G:154:VAL:HG22	1:G:161:VAL:O	2.15	0.47
1:G:244:TYR:CE1	1:G:368:ASP:HB2	2.50	0.47
1:G:286:LEU:HG	1:G:331:LEU:CD1	2.44	0.47
1:G:472:PRO:HG3	1:G:532:ALA:HB3	1.97	0.47
1:G:510:PRO:HB2	5:G:802:Y6Y:C24	2.45	0.47
1:I:35:ASP:N	1:I:35:ASP:OD1	2.46	0.47
1:I:220:VAL:CG1	1:I:224:LEU:HD12	2.44	0.47
1:I:468:VAL:CG2	1:I:470:GLU:OE1	2.58	0.47
1:I:653:ARG:HG2	1:I:687:LEU:HD11	1.96	0.47
1:J:118:PRO:HB2	1:J:188:PRO:CB	2.45	0.47
1:J:578:GLU:O	1:J:578:GLU:HG3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:84:MET:HE1	1:K:92:LEU:HD12	1.96	0.47
1:K:168:THR:CG2	1:K:170:PRO:HD2	2.44	0.47
1:K:472:PRO:HG3	1:K:532:ALA:HB3	1.96	0.47
1:K:653:ARG:HG2	1:K:687:LEU:HD11	1.95	0.47
1:L:60:LYS:NZ	1:L:103:GLN:HB2	2.30	0.47
1:L:136:LYS:HB2	1:L:137:PRO:HD3	1.96	0.47
1:A:225:ARG:HG3	1:A:226:HIS:CE1	2.50	0.47
1:A:420:LEU:HD21	1:F:235:VAL:HG11	1.97	0.47
1:A:578:GLU:O	1:A:578:GLU:CG	2.63	0.47
1:A:647:LEU:HD11	1:A:752:ILE:CD1	2.44	0.47
1:B:284:SER:HB2	1:B:288:LYS:HZ3	1.79	0.47
2:C:201:VAL:HG12	2:C:260:ASN:HD22	1.79	0.47
2:C:225:ARG:HG3	2:C:226:HIS:CE1	2.50	0.47
2:C:764:GLN:HG3	2:C:764:GLN:O	2.14	0.47
3:D:278:LEU:O	3:D:281:GLU:HG3	2.15	0.47
3:D:764:GLN:O	3:D:764:GLN:HG3	2.14	0.47
1:E:421:GLN:NE2	1:E:451:ASP:HA	2.30	0.47
1:E:482:LEU:O	1:E:486:LYS:N	2.33	0.47
1:E:578:GLU:O	1:E:578:GLU:CG	2.63	0.47
1:E:654:VAL:HG22	1:E:676:ALA:HB3	1.96	0.47
1:E:753:ARG:HH12	1:J:761:THR:HA	1.78	0.47
1:G:118:PRO:HB2	1:G:188:PRO:CB	2.45	0.47
1:G:168:THR:CG2	1:G:170:PRO:HD2	2.44	0.47
1:H:147:ARG:HG2	1:H:147:ARG:NH1	2.30	0.47
1:H:360:PHE:H	1:H:360:PHE:HD2	1.62	0.47
1:H:472:PRO:HG3	1:H:532:ALA:HB3	1.97	0.47
1:I:222:LEU:HD21	1:J:424:ARG:CG	2.41	0.47
1:J:206:ILE:CD1	1:J:257:ALA:CB	2.93	0.47
1:K:206:ILE:CD1	1:K:257:ALA:CB	2.93	0.47
1:L:26:LEU:HD23	1:L:100:ILE:CG1	2.38	0.47
1:L:440:GLU:OE1	1:L:440:GLU:N	2.33	0.47
1:L:669:ASP:OD2	1:L:733:ARG:CD	2.61	0.47
1:A:670:VAL:HG13	1:A:670:VAL:O	2.15	0.46
1:A:706:GLU:HG3	1:F:502:LYS:CE	2.45	0.46
1:A:733:ARG:HH22	1:F:775:SER:HB3	1.80	0.46
1:B:225:ARG:HG3	1:B:226:HIS:CE1	2.50	0.46
1:B:359:ARG:CG	1:B:360:PHE:N	2.78	0.46
1:B:559:VAL:HG12	1:B:607:GLU:HG3	1.96	0.46
1:B:710:GLU:HG2	1:B:713:ARG:HH21	1.79	0.46
3:D:201:VAL:HG12	3:D:260:ASN:HD22	1.79	0.46
3:D:224:LEU:HD22	3:D:264:ALA:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:225:ARG:HG3	3:D:226:HIS:CE1	2.50	0.46
1:E:359:ARG:CG	1:E:360:PHE:N	2.78	0.46
1:E:697:LEU:HD23	1:E:700:ARG:HH22	1.80	0.46
1:F:225:ARG:HG3	1:F:226:HIS:CE1	2.50	0.46
1:F:421:GLN:NE2	1:F:451:ASP:HA	2.30	0.46
1:H:22:ARG:N	1:H:23:PRO:HD3	2.30	0.46
1:H:154:VAL:HG22	1:H:161:VAL:O	2.15	0.46
1:H:220:VAL:CG1	1:H:224:LEU:HD12	2.44	0.46
1:H:244:TYR:CE1	1:H:368:ASP:HB2	2.50	0.46
1:H:524:LYS:HG2	1:H:645:ILE:HG13	1.97	0.46
1:H:680:ASN:OD1	1:H:681:GLY:N	2.42	0.46
1:I:147:ARG:HG2	1:I:147:ARG:NH1	2.30	0.46
1:I:206:ILE:CD1	1:I:257:ALA:CB	2.93	0.46
1:I:578:GLU:O	1:I:578:GLU:HG3	2.14	0.46
1:J:721:GLU:H	1:J:721:GLU:CD	2.17	0.46
1:K:49:LEU:HD11	1:K:102:ILE:HG21	1.96	0.46
1:K:60:LYS:NZ	1:K:103:GLN:HB2	2.30	0.46
1:K:115:HIS:CG	1:K:167:GLU:HB3	2.50	0.46
1:K:123:VAL:HG13	1:K:124:GLU:HG3	1.97	0.46
1:A:465:ARG:CD	1:F:560:ARG:NH1	2.78	0.46
1:A:567:ARG:O	1:A:614:LYS:HE2	2.14	0.46
1:B:224:LEU:HD22	1:B:264:ALA:HB2	1.97	0.46
1:B:578:GLU:O	1:B:578:GLU:CG	2.63	0.46
1:B:764:GLN:OE1	2:C:742:PHE:CD2	2.68	0.46
2:C:316:THR:HG22	2:C:322:ARG:HG2	1.95	0.46
3:D:578:GLU:O	3:D:578:GLU:CG	2.63	0.46
1:E:210:ARG:O	1:E:210:ARG:HG3	2.15	0.46
1:E:559:VAL:HG12	1:E:607:GLU:HG3	1.96	0.46
1:E:670:VAL:O	1:E:670:VAL:HG13	2.15	0.46
1:E:708:ARG:CD	1:E:712:GLU:OE2	2.62	0.46
1:F:406:HIS:HE2	1:F:459:SER:HB2	1.81	0.46
1:G:22:ARG:N	1:G:23:PRO:HD3	2.30	0.46
1:G:360:PHE:H	1:G:360:PHE:HD2	1.62	0.46
1:G:406:HIS:NE2	1:G:461:PRO:HD3	2.29	0.46
1:I:232:ALA:HB2	1:J:436:THR:HA	1.96	0.46
1:I:244:TYR:CE1	1:I:368:ASP:HB2	2.50	0.46
1:J:89:ARG:HH12	1:J:203:TYR:HE1	1.63	0.46
1:K:136:LYS:HB2	1:K:137:PRO:HD3	1.96	0.46
1:K:154:VAL:HG22	1:K:161:VAL:O	2.15	0.46
1:K:570:ALA:CB	1:K:614:LYS:HE3	2.45	0.46
1:L:147:ARG:HG2	1:L:147:ARG:NH1	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:286:LEU:HG	1:L:331:LEU:CD1	2.44	0.46
1:L:654:VAL:HG22	1:L:676:ALA:CB	2.45	0.46
1:A:322:ARG:HH22	1:B:317:HIS:HB3	1.80	0.46
1:A:488:GLU:O	1:A:492:LEU:HD13	2.15	0.46
1:B:472:PRO:HD3	1:B:539:PHE:CB	2.46	0.46
2:C:611:MET:O	2:C:612:SER:HB2	2.15	0.46
1:E:236:LYS:HG3	1:E:236:LYS:O	2.15	0.46
1:E:495:TYR:CD1	1:F:703:ILE:HD13	2.50	0.46
1:I:118:PRO:HB2	1:I:188:PRO:CB	2.45	0.46
1:I:242:LEU:HD23	1:I:366:GLU:HG2	1.98	0.46
1:I:317:HIS:CE1	1:J:318:GLY:CA	2.96	0.46
1:I:510:PRO:HB2	5:I:802:Y6Y:C24	2.45	0.46
1:I:615:LYS:HE3	1:J:402:GLU:OE1	2.15	0.46
1:J:22:ARG:N	1:J:23:PRO:HD3	2.30	0.46
1:J:510:PRO:HB2	5:J:802:Y6Y:C24	2.45	0.46
1:K:763:GLN:O	1:L:744:ARG:NH1	2.48	0.46
1:L:118:PRO:HB2	1:L:188:PRO:CB	2.45	0.46
1:L:206:ILE:CD1	1:L:257:ALA:CB	2.94	0.46
1:L:244:TYR:CE1	1:L:368:ASP:HB2	2.50	0.46
1:L:313:ARG:O	1:L:314:GLU:C	2.54	0.46
1:L:510:PRO:HB2	5:L:802:Y6Y:C24	2.45	0.46
1:B:670:VAL:O	1:B:670:VAL:HG13	2.15	0.46
1:B:764:GLN:O	1:B:764:GLN:HG3	2.14	0.46
2:C:615:LYS:O	5:C:802:Y6Y:C16	2.63	0.46
3:D:670:VAL:HG13	3:D:670:VAL:O	2.15	0.46
1:E:472:PRO:HD3	1:E:539:PHE:CB	2.46	0.46
1:F:359:ARG:CG	1:F:360:PHE:N	2.78	0.46
1:F:578:GLU:O	1:F:578:GLU:CG	2.63	0.46
1:G:60:LYS:NZ	1:G:103:GLN:HB2	2.30	0.46
1:G:259:ALA:HB1	1:G:266:PHE:HB2	1.97	0.46
1:H:51:LEU:HG	1:H:104:PRO:CB	2.46	0.46
1:H:144:ARG:O	1:H:176:VAL:HG12	2.16	0.46
1:H:259:ALA:HB1	1:H:266:PHE:HB2	1.97	0.46
1:H:286:LEU:HG	1:H:331:LEU:CD1	2.44	0.46
1:I:118:PRO:HB2	1:I:188:PRO:HB3	1.98	0.46
1:I:721:GLU:H	1:I:721:GLU:CD	2.17	0.46
1:J:115:HIS:CG	1:J:167:GLU:HB3	2.50	0.46
1:J:144:ARG:O	1:J:176:VAL:HG12	2.16	0.46
1:J:576:PHE:CB	1:J:579:LEU:HD13	2.42	0.46
1:K:41:LEU:HD23	1:K:82:ILE:CG1	2.46	0.46
1:K:244:TYR:CE1	1:K:368:ASP:HB2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:123:VAL:HG13	1:L:124:GLU:HG3	1.97	0.46
1:A:615:LYS:O	5:A:802:Y6Y:C16	2.63	0.46
1:B:332:MET:HE2	1:B:363:PHE:CE2	2.51	0.46
1:B:615:LYS:O	5:B:802:Y6Y:C16	2.63	0.46
3:D:615:LYS:O	5:D:802:Y6Y:C16	2.63	0.46
1:E:406:HIS:HE2	1:E:459:SER:HB2	1.81	0.46
1:E:615:LYS:O	5:E:802:Y6Y:C16	2.63	0.46
1:F:332:MET:HE2	1:F:363:PHE:CE2	2.49	0.46
1:F:482:LEU:O	1:F:486:LYS:N	2.34	0.46
1:F:615:LYS:O	5:F:802:Y6Y:C16	2.63	0.46
1:G:41:LEU:HD23	1:G:82:ILE:CG1	2.46	0.46
1:G:115:HIS:CG	1:G:167:GLU:HB3	2.50	0.46
1:G:354:ASP:OD2	1:G:356:ALA:HB3	2.16	0.46
1:G:371:ILE:CD1	1:G:466:GLU:HB2	2.22	0.46
1:H:118:PRO:HB2	1:H:188:PRO:CB	2.45	0.46
1:H:604:ILE:HG22	1:H:608:MET:CE	2.46	0.46
1:I:60:LYS:NZ	1:I:103:GLN:HB2	2.30	0.46
1:I:89:ARG:HH12	1:I:203:TYR:HE1	1.63	0.46
1:I:604:ILE:HG22	1:I:608:MET:CE	2.46	0.46
1:I:654:VAL:HG22	1:I:676:ALA:CB	2.45	0.46
1:J:41:LEU:HD23	1:J:82:ILE:CG1	2.46	0.46
1:J:168:THR:CG2	1:J:170:PRO:HD2	2.44	0.46
1:J:259:ALA:HB1	1:J:266:PHE:HB2	1.97	0.46
1:J:379:GLU:HA	1:J:382:GLN:OE1	2.16	0.46
1:J:570:ALA:CB	1:J:614:LYS:HE3	2.45	0.46
1:K:242:LEU:HD23	1:K:366:GLU:HG2	1.98	0.46
1:L:41:LEU:HD23	1:L:82:ILE:CG1	2.46	0.46
1:L:356:ALA:O	1:L:362:ARG:NH1	2.41	0.46
1:L:571:PRO:CA	1:L:616:ASN:HB3	2.39	0.46
1:L:604:ILE:HG22	1:L:608:MET:CE	2.46	0.46
1:A:697:LEU:HD23	1:A:700:ARG:HH22	1.80	0.46
1:B:316:THR:HG22	1:B:322:ARG:HG2	1.95	0.46
1:B:697:LEU:HD23	1:B:700:ARG:NH2	2.29	0.46
3:D:472:PRO:HD3	3:D:539:PHE:CB	2.46	0.46
1:F:224:LEU:HD22	1:F:264:ALA:HB2	1.97	0.46
1:F:611:MET:CG	1:F:612:SER:H	2.17	0.46
1:G:220:VAL:CG1	1:G:224:LEU:HD12	2.44	0.46
1:H:115:HIS:HB3	1:H:167:GLU:HB3	1.97	0.46
1:H:115:HIS:CG	1:H:167:GLU:HB3	2.50	0.46
1:H:517:TYR:CZ	1:H:644:TYR:HB2	2.51	0.46
1:I:49:LEU:HD11	1:I:102:ILE:HG21	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:360:PHE:CD2	1:J:360:PHE:N	2.84	0.46
1:K:118:PRO:HB2	1:K:188:PRO:CB	2.45	0.46
1:K:259:ALA:HB1	1:K:266:PHE:HB2	1.97	0.46
1:L:426:LYS:CD	1:L:427:MET:H	2.25	0.46
1:L:517:TYR:CZ	1:L:644:TYR:HB2	2.51	0.46
1:A:472:PRO:HD3	1:A:539:PHE:CB	2.46	0.46
1:A:611:MET:O	1:A:612:SER:HB2	2.15	0.46
1:B:201:VAL:HG12	1:B:260:ASN:HD22	1.79	0.46
1:B:488:GLU:O	1:B:492:LEU:HD13	2.15	0.46
1:B:697:LEU:HD23	1:B:700:ARG:HH22	1.80	0.46
2:C:359:ARG:CG	2:C:360:PHE:N	2.78	0.46
2:C:512:LYS:HZ3	2:C:612:SER:HA	1.81	0.46
1:E:225:ARG:HG3	1:E:226:HIS:CE1	2.50	0.46
1:E:278:LEU:O	1:E:281:GLU:HG3	2.15	0.46
1:F:210:ARG:O	1:F:210:ARG:HG3	2.15	0.46
1:G:58:LEU:HG	1:G:68:VAL:HG12	1.98	0.46
1:G:123:VAL:HG13	1:G:124:GLU:HG3	1.97	0.46
1:H:60:LYS:NZ	1:H:103:GLN:HB2	2.30	0.46
1:H:605:LEU:HD21	1:H:633:ILE:CD1	2.26	0.46
1:I:22:ARG:N	1:I:23:PRO:HD3	2.30	0.46
1:I:406:HIS:NE2	1:I:461:PRO:HD3	2.29	0.46
1:I:422:ALA:HB2	1:I:451:ASP:OD2	2.16	0.46
1:J:244:TYR:CE1	1:J:368:ASP:HB2	2.50	0.46
1:K:26:LEU:HD23	1:K:100:ILE:CG1	2.38	0.46
1:K:149:GLY:HA2	1:K:164:LYS:CE	2.36	0.46
1:K:604:ILE:HG22	1:K:608:MET:CE	2.46	0.46
1:L:190:LYS:HD2	1:L:191:ARG:N	2.31	0.46
1:L:242:LEU:HD23	1:L:366:GLU:HG2	1.98	0.46
1:A:764:GLN:HG3	1:A:764:GLN:O	2.14	0.46
1:B:201:VAL:HG21	1:B:253:LEU:CD1	2.46	0.46
2:C:278:LEU:O	2:C:281:GLU:HG3	2.15	0.46
2:C:578:GLU:O	2:C:578:GLU:CG	2.63	0.46
3:D:775:SER:HB3	1:E:733:ARG:NH2	2.30	0.46
1:F:390:LEU:HD22	1:F:396:LEU:HD11	1.98	0.46
1:F:611:MET:O	1:F:612:SER:HB2	2.15	0.46
1:F:697:LEU:HD23	1:F:700:ARG:HH22	1.80	0.46
1:G:51:LEU:HG	1:G:104:PRO:CB	2.46	0.46
1:G:206:ILE:CD1	1:G:257:ALA:CB	2.94	0.46
1:G:491:GLU:OE1	1:H:700:ARG:HD3	2.15	0.46
1:G:548:LEU:HB3	1:L:602:ASN:ND2	2.30	0.46
1:G:604:ILE:HG22	1:G:608:MET:CE	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:354:ASP:OD2	1:H:356:ALA:HB3	2.16	0.46
1:H:575:PHE:HE2	1:H:577:ASP:HB2	1.81	0.46
1:I:51:LEU:HG	1:I:104:PRO:CB	2.46	0.46
1:I:494:GLN:O	1:I:497:VAL:HG22	2.16	0.46
1:J:360:PHE:H	1:J:360:PHE:HD2	1.62	0.46
1:K:147:ARG:HG2	1:K:147:ARG:NH1	2.30	0.46
1:K:669:ASP:OD2	1:K:733:ARG:CD	2.61	0.46
1:A:210:ARG:O	1:A:210:ARG:HG3	2.15	0.46
1:A:406:HIS:HE2	1:A:459:SER:HB2	1.81	0.46
1:A:512:LYS:HZ3	1:A:612:SER:HA	1.81	0.46
1:A:574:LEU:HD23	1:A:619:ILE:CD1	2.45	0.46
2:C:574:LEU:HD23	2:C:619:ILE:CD1	2.45	0.46
1:E:224:LEU:HD22	1:E:264:ALA:HB2	1.97	0.46
1:E:316:THR:HG22	1:E:322:ARG:HG2	1.95	0.46
1:E:390:LEU:HD22	1:E:396:LEU:HD11	1.98	0.46
1:F:764:GLN:O	1:F:765:SER:HB2	2.16	0.46
1:G:190:LYS:HD2	1:G:191:ARG:N	2.31	0.46
1:G:440:GLU:OE1	1:G:440:GLU:N	2.33	0.46
1:G:489:LEU:HD21	1:G:516:PHE:CZ	2.51	0.46
1:G:494:GLN:O	1:G:497:VAL:HG22	2.16	0.46
1:G:605:LEU:HD21	1:G:633:ILE:CD1	2.26	0.46
1:H:25:ARG:O	1:H:82:ILE:HD11	2.16	0.46
1:H:118:PRO:HB2	1:H:188:PRO:HB3	1.98	0.46
1:H:206:ILE:CD1	1:H:257:ALA:CB	2.93	0.46
1:H:317:HIS:CE1	1:I:318:GLY:HA2	2.51	0.46
1:H:360:PHE:N	1:H:360:PHE:CD2	2.84	0.46
1:H:494:GLN:O	1:H:497:VAL:HG22	2.16	0.46
1:I:354:ASP:OD2	1:I:356:ALA:HB3	2.16	0.46
1:I:360:PHE:H	1:I:360:PHE:HD2	1.62	0.46
1:I:379:GLU:HA	1:I:382:GLN:OE1	2.16	0.46
1:J:190:LYS:HD2	1:J:191:ARG:N	2.31	0.46
1:J:313:ARG:HB3	1:J:314:GLU:H	1.58	0.46
1:J:422:ALA:HB2	1:J:451:ASP:OD2	2.16	0.46
1:J:604:ILE:HG22	1:J:608:MET:CE	2.46	0.46
1:J:773:PHE:HE2	1:K:736:PHE:CB	2.27	0.46
1:K:144:ARG:O	1:K:176:VAL:HG12	2.16	0.46
1:K:422:ALA:HB2	1:K:451:ASP:OD2	2.16	0.46
1:K:615:LYS:HE3	1:L:402:GLU:OE1	2.15	0.46
1:A:316:THR:HG22	1:A:322:ARG:CG	2.46	0.46
1:A:515:LEU:HD13	1:A:634:LEU:HD21	1.98	0.46
1:A:690:ILE:HD11	1:A:743:ALA:HB1	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:278:LEU:O	1:B:281:GLU:HG3	2.15	0.46
1:B:316:THR:HG22	1:B:322:ARG:CG	2.47	0.46
2:C:580:ASP:OD2	2:C:623:THR:OG1	2.27	0.46
3:D:482:LEU:CD1	3:D:527:LEU:HD21	2.40	0.46
3:D:495:TYR:CD1	1:E:703:ILE:HD13	2.51	0.46
1:E:764:GLN:O	1:E:765:SER:HB2	2.16	0.46
1:F:670:VAL:HG13	1:F:670:VAL:O	2.15	0.46
1:H:49:LEU:HD11	1:H:102:ILE:HG21	1.96	0.46
1:H:422:ALA:HB2	1:H:451:ASP:OD2	2.16	0.46
1:I:259:ALA:HB1	1:I:266:PHE:HB2	1.97	0.46
1:I:426:LYS:CD	1:I:427:MET:H	2.25	0.46
1:K:22:ARG:N	1:K:23:PRO:HD3	2.30	0.46
1:K:58:LEU:HG	1:K:68:VAL:HG12	1.98	0.46
1:L:115:HIS:CG	1:L:167:GLU:HB3	2.50	0.46
1:L:144:ARG:O	1:L:176:VAL:HG12	2.16	0.46
1:L:379:GLU:HA	1:L:382:GLN:OE1	2.15	0.46
1:L:538:ASN:HD22	1:L:569:ALA:HB1	1.81	0.46
1:B:515:LEU:HD13	1:B:634:LEU:HD21	1.98	0.45
2:C:472:PRO:HD3	2:C:539:PHE:CB	2.46	0.45
2:C:488:GLU:O	2:C:492:LEU:HD13	2.14	0.45
2:C:496:PRO:HA	2:C:503:PHE:CD2	2.52	0.45
2:C:539:PHE:CE2	2:C:541:SER:HB2	2.52	0.45
3:D:764:GLN:O	3:D:765:SER:HB2	2.16	0.45
1:F:278:LEU:O	1:F:281:GLU:HG3	2.15	0.45
1:F:574:LEU:HD23	1:F:619:ILE:CD1	2.45	0.45
1:G:426:LYS:CD	1:G:427:MET:H	2.25	0.45
1:G:517:TYR:CZ	1:G:644:TYR:HB2	2.51	0.45
1:H:58:LEU:HG	1:H:68:VAL:HG12	1.98	0.45
1:H:502:LYS:HZ3	1:I:702:SER:C	2.20	0.45
1:I:115:HIS:HB3	1:I:167:GLU:HB3	1.97	0.45
1:J:333:ASP:OD2	1:J:362:ARG:NH2	2.44	0.45
1:J:371:ILE:CD1	1:J:466:GLU:HB2	2.22	0.45
1:J:472:PRO:HG3	1:J:532:ALA:HB3	1.97	0.45
1:K:51:LEU:HG	1:K:104:PRO:CB	2.46	0.45
1:K:89:ARG:HH12	1:K:203:TYR:HE1	1.64	0.45
1:K:190:LYS:HD2	1:K:191:ARG:N	2.31	0.45
1:K:230:PHE:HZ	1:L:420:LEU:HD11	1.81	0.45
1:K:426:LYS:CD	1:K:427:MET:H	2.25	0.45
1:K:489:LEU:HD21	1:K:516:PHE:CZ	2.51	0.45
1:K:538:ASN:HD22	1:K:569:ALA:HB1	1.81	0.45
1:L:22:ARG:N	1:L:23:PRO:HD3	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:25:ARG:O	1:L:82:ILE:HD11	2.16	0.45
1:L:360:PHE:CD2	1:L:360:PHE:N	2.84	0.45
1:A:496:PRO:HA	1:A:503:PHE:CD2	2.52	0.45
1:B:390:LEU:HD22	1:B:396:LEU:HD11	1.98	0.45
1:B:690:ILE:HD11	1:B:743:ALA:HB1	1.98	0.45
2:C:670:VAL:HG13	2:C:670:VAL:O	2.15	0.45
2:C:764:GLN:O	2:C:765:SER:HB2	2.16	0.45
3:D:496:PRO:HA	3:D:503:PHE:CD2	2.51	0.45
3:D:539:PHE:CE2	3:D:541:SER:HB2	2.52	0.45
1:E:496:PRO:HA	1:E:503:PHE:CD2	2.52	0.45
1:E:539:PHE:CE2	1:E:541:SER:HB2	2.52	0.45
1:E:574:LEU:HD23	1:E:619:ILE:CD1	2.45	0.45
1:F:316:THR:HG22	1:F:322:ARG:CG	2.47	0.45
1:F:690:ILE:HD11	1:F:743:ALA:HB1	1.98	0.45
1:G:115:HIS:HB3	1:G:167:GLU:HB3	1.97	0.45
1:G:379:GLU:HA	1:G:382:GLN:OE1	2.16	0.45
1:H:242:LEU:HD23	1:H:366:GLU:HG2	1.98	0.45
1:H:379:GLU:HA	1:H:382:GLN:OE1	2.16	0.45
1:H:673:GLU:OE1	1:H:673:GLU:N	2.49	0.45
1:I:390:LEU:HG	1:I:394:VAL:HG23	1.98	0.45
1:I:517:TYR:CZ	1:I:644:TYR:HB2	2.51	0.45
1:I:673:GLU:OE1	1:I:673:GLU:N	2.49	0.45
1:I:774:PRO:HD3	1:J:674:PHE:CG	2.51	0.45
1:J:45:LYS:HE2	1:J:79:ASP:OD1	2.16	0.45
1:J:60:LYS:NZ	1:J:103:GLN:HB2	2.30	0.45
1:J:356:ALA:O	1:J:362:ARG:NH1	2.41	0.45
1:J:390:LEU:HG	1:J:394:VAL:HG23	1.98	0.45
1:J:508:MET:CE	1:K:696:LYS:HB2	2.46	0.45
1:K:517:TYR:CZ	1:K:644:TYR:HB2	2.51	0.45
1:K:673:GLU:OE1	1:K:673:GLU:N	2.49	0.45
1:L:51:LEU:HG	1:L:104:PRO:CB	2.46	0.45
1:L:118:PRO:HB2	1:L:188:PRO:HB3	1.98	0.45
1:B:210:ARG:O	1:B:210:ARG:HG3	2.15	0.45
1:B:359:ARG:NH1	2:C:305:GLU:OE2	2.49	0.45
1:B:496:PRO:HA	1:B:503:PHE:CD2	2.52	0.45
2:C:607:GLU:OE1	3:D:465:ARG:NH2	2.48	0.45
3:D:359:ARG:CG	3:D:360:PHE:N	2.78	0.45
3:D:430:ILE:HG13	3:D:431:ASP:N	2.32	0.45
1:G:25:ARG:O	1:G:82:ILE:HD11	2.16	0.45
1:H:551:TRP:CZ2	1:H:586:ARG:HG2	2.52	0.45
1:I:190:LYS:HD2	1:I:191:ARG:N	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:208:GLY:HA2	1:I:376:GLY:HA2	1.99	0.45
1:J:58:LEU:HG	1:J:68:VAL:HG12	1.98	0.45
1:J:233:ILE:HD11	1:K:158:MET:CB	2.20	0.45
1:J:364:ASP:OD1	1:J:364:ASP:N	2.42	0.45
1:A:278:LEU:O	1:A:281:GLU:HG3	2.15	0.45
2:C:201:VAL:HG21	2:C:253:LEU:CD1	2.46	0.45
2:C:316:THR:HG22	2:C:322:ARG:CG	2.46	0.45
2:C:390:LEU:HD22	2:C:396:LEU:HD11	1.98	0.45
2:C:406:HIS:HE2	2:C:459:SER:HB2	1.81	0.45
1:E:690:ILE:HD11	1:E:743:ALA:HB1	1.98	0.45
1:G:422:ALA:HB2	1:G:451:ASP:OD2	2.16	0.45
1:G:673:GLU:N	1:G:673:GLU:OE1	2.49	0.45
1:H:190:LYS:HD2	1:H:191:ARG:N	2.31	0.45
1:H:208:GLY:HA2	1:H:376:GLY:HA2	1.99	0.45
1:I:41:LEU:HD23	1:I:82:ILE:CG1	2.46	0.45
1:I:551:TRP:CZ2	1:I:586:ARG:HG2	2.52	0.45
1:J:208:GLY:HA2	1:J:376:GLY:HA2	1.99	0.45
1:J:517:TYR:CZ	1:J:644:TYR:HB2	2.51	0.45
1:K:494:GLN:O	1:K:497:VAL:HG22	2.16	0.45
1:A:464:LEU:CD1	1:F:613:THR:HG21	2.46	0.45
1:A:674:PHE:CE2	1:F:774:PRO:HD3	2.52	0.45
1:E:247:PRO:HG3	1:E:348:ASN:HD21	1.81	0.45
1:E:543:LYS:HE2	1:E:543:LYS:HB2	1.45	0.45
1:F:472:PRO:HD3	1:F:539:PHE:CB	2.46	0.45
1:G:144:ARG:O	1:G:176:VAL:HG12	2.16	0.45
1:G:688:THR:O	1:G:692:GLN:HG2	2.17	0.45
1:H:41:LEU:HD23	1:H:82:ILE:CG1	2.46	0.45
1:H:89:ARG:HH12	1:H:203:TYR:HE1	1.63	0.45
1:H:123:VAL:HG13	1:H:124:GLU:HG3	1.97	0.45
1:I:485:VAL:HG11	1:I:527:LEU:HD21	1.99	0.45
1:J:354:ASP:OD2	1:J:356:ALA:HB3	2.16	0.45
1:J:494:GLN:O	1:J:497:VAL:HG22	2.16	0.45
1:J:551:TRP:CZ2	1:J:586:ARG:HG2	2.52	0.45
1:J:669:ASP:OD2	1:J:733:ARG:CD	2.61	0.45
1:K:45:LYS:HE2	1:K:79:ASP:OD1	2.16	0.45
1:K:354:ASP:OD2	1:K:356:ALA:HB3	2.16	0.45
1:L:259:ALA:HB1	1:L:266:PHE:HB2	1.97	0.45
1:L:422:ALA:HB2	1:L:451:ASP:OD2	2.16	0.45
1:L:489:LEU:HD21	1:L:516:PHE:CZ	2.51	0.45
1:B:539:PHE:CE2	1:B:541:SER:HB2	2.52	0.45
2:C:430:ILE:HG13	2:C:431:ASP:N	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:390:LEU:HD22	3:D:396:LEU:HD11	1.98	0.45
3:D:543:LYS:HE2	3:D:543:LYS:HB2	1.45	0.45
3:D:690:ILE:HD11	3:D:743:ALA:HB1	1.98	0.45
3:D:752:ILE:HG22	1:K:766:ARG:NH2	2.31	0.45
1:E:244:TYR:HA	1:E:347:THR:O	2.17	0.45
1:F:325:VAL:O	1:F:329:LEU:HG	2.17	0.45
1:G:41:LEU:CD2	1:G:82:ILE:HG12	2.47	0.45
1:G:442:MET:SD	1:L:233:ILE:HD13	2.56	0.45
1:G:575:PHE:HE2	1:G:577:ASP:HB2	1.81	0.45
1:H:149:GLY:HA2	1:H:164:LYS:CE	2.36	0.45
1:I:26:LEU:HD12	1:I:82:ILE:CD1	2.46	0.45
1:I:144:ARG:O	1:I:176:VAL:HG12	2.16	0.45
1:I:317:HIS:CE1	1:J:317:HIS:C	2.90	0.45
1:I:489:LEU:HD21	1:I:516:PHE:CZ	2.51	0.45
1:J:51:LEU:HG	1:J:104:PRO:CB	2.46	0.45
1:J:242:LEU:HD23	1:J:366:GLU:HG2	1.98	0.45
1:K:313:ARG:O	1:K:314:GLU:C	2.54	0.45
1:K:360:PHE:N	1:K:360:PHE:CD2	2.84	0.45
1:L:41:LEU:CD2	1:L:82:ILE:HG12	2.47	0.45
1:L:58:LEU:HG	1:L:68:VAL:HG12	1.98	0.45
1:L:191:ARG:HD2	1:L:192:GLU:H	1.82	0.45
1:L:494:GLN:O	1:L:497:VAL:HG22	2.16	0.45
1:A:244:TYR:HA	1:A:347:THR:O	2.17	0.45
1:A:390:LEU:HD22	1:A:396:LEU:HD11	1.98	0.45
1:A:419:ALA:O	1:A:423:ILE:HG12	2.17	0.45
1:B:419:ALA:O	1:B:423:ILE:HG12	2.17	0.45
2:C:419:ALA:O	2:C:423:ILE:HG12	2.17	0.45
3:D:330:THR:CG2	1:E:273:GLU:HA	2.45	0.45
3:D:515:LEU:HD13	3:D:634:LEU:HD21	1.98	0.45
1:E:201:VAL:HG21	1:E:253:LEU:CD1	2.46	0.45
1:G:45:LYS:HE2	1:G:79:ASP:OD1	2.16	0.45
1:H:55:ASP:N	1:H:55:ASP:OD1	2.50	0.45
1:I:313:ARG:O	1:I:314:GLU:C	2.54	0.45
1:K:41:LEU:CD2	1:K:82:ILE:HG12	2.47	0.45
1:K:191:ARG:HD2	1:K:192:GLU:H	1.82	0.45
1:K:379:GLU:HA	1:K:382:GLN:OE1	2.15	0.45
1:L:51:LEU:CG	1:L:104:PRO:HB3	2.47	0.45
1:L:688:THR:O	1:L:692:GLN:HG2	2.17	0.45
1:A:464:LEU:HD21	1:F:613:THR:CG2	2.46	0.45
2:C:325:VAL:O	2:C:329:LEU:HG	2.17	0.45
2:C:359:ARG:HG2	2:C:360:PHE:N	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:316:THR:HG22	3:D:322:ARG:CG	2.46	0.45
3:D:406:HIS:HE2	3:D:459:SER:HB2	1.81	0.45
1:E:430:ILE:HG13	1:E:431:ASP:N	2.32	0.45
1:F:201:VAL:HG21	1:F:253:LEU:CD1	2.46	0.45
1:F:359:ARG:HG2	1:F:360:PHE:N	2.32	0.45
1:F:496:PRO:HA	1:F:503:PHE:CD2	2.51	0.45
1:G:216:ILE:HD13	1:G:254:ILE:HG21	1.99	0.45
1:G:538:ASN:HD22	1:G:569:ALA:HB1	1.82	0.45
1:H:688:THR:O	1:H:692:GLN:HG2	2.17	0.45
1:I:191:ARG:HD2	1:I:192:GLU:H	1.82	0.45
1:I:702:SER:HB2	1:I:728:VAL:HG11	1.99	0.45
1:J:244:TYR:CD1	1:J:244:TYR:C	2.91	0.45
1:J:426:LYS:CD	1:J:427:MET:H	2.25	0.45
1:J:489:LEU:HD21	1:J:516:PHE:CZ	2.51	0.45
1:L:45:LYS:HE2	1:L:79:ASP:OD1	2.16	0.45
1:L:354:ASP:OD2	1:L:356:ALA:HB3	2.16	0.45
1:L:391:ALA:O	1:L:394:VAL:HG22	2.17	0.45
1:L:670:VAL:HG13	1:L:670:VAL:O	2.17	0.45
1:A:332:MET:HE2	1:A:363:PHE:CE2	2.51	0.45
1:A:336:LYS:O	1:A:337:GLN:CG	2.62	0.45
1:A:359:ARG:CG	1:A:360:PHE:N	2.78	0.45
1:A:764:GLN:O	1:A:765:SER:HB2	2.16	0.45
3:D:244:TYR:HA	3:D:347:THR:O	2.17	0.45
3:D:325:VAL:O	3:D:329:LEU:HG	2.17	0.45
3:D:710:GLU:HG2	3:D:713:ARG:HE	1.82	0.45
1:F:539:PHE:CE2	1:F:541:SER:HB2	2.52	0.45
1:G:55:ASP:OD1	1:G:55:ASP:N	2.50	0.45
1:G:118:PRO:HB2	1:G:188:PRO:HB3	1.98	0.45
1:G:147:ARG:HG2	1:G:147:ARG:NH1	2.30	0.45
1:G:191:ARG:HD2	1:G:192:GLU:H	1.82	0.45
1:G:244:TYR:C	1:G:244:TYR:CD1	2.91	0.45
1:H:26:LEU:HD22	1:H:59:LEU:HD22	1.99	0.45
1:H:51:LEU:CG	1:H:104:PRO:HB3	2.47	0.45
1:H:407:VAL:O	1:H:411:LEU:HD13	2.17	0.45
1:H:763:GLN:O	1:I:744:ARG:NH1	2.49	0.45
1:I:25:ARG:O	1:I:82:ILE:HD11	2.16	0.45
1:I:51:LEU:CG	1:I:104:PRO:HB3	2.47	0.45
1:I:115:HIS:CG	1:I:167:GLU:HB3	2.50	0.45
1:J:25:ARG:O	1:J:82:ILE:HD11	2.16	0.45
1:J:764:GLN:HG3	1:K:741:ARG:O	2.16	0.45
1:K:25:ARG:O	1:K:82:ILE:HD11	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:657:LEU:HD12	1:K:676:ALA:HB2	1.99	0.45
1:K:773:PHE:HB2	1:L:733:ARG:NH2	2.32	0.45
1:L:492:LEU:CD2	1:L:641:GLN:HG3	2.47	0.45
1:L:576:PHE:CB	1:L:579:LEU:HD13	2.42	0.45
1:A:508:MET:HE3	1:B:696:LYS:HB2	1.98	0.45
1:A:740:MET:HE2	1:F:768:PHE:CD1	2.52	0.45
1:A:771:PHE:CE1	1:B:678:MET:HG3	2.49	0.45
1:B:220:VAL:HB	1:B:224:LEU:HD12	1.99	0.45
1:B:502:LYS:HD2	2:C:703:ILE:HG12	1.99	0.45
2:C:210:ARG:O	2:C:211:LYS:CG	2.62	0.45
2:C:332:MET:HE2	2:C:363:PHE:CE2	2.51	0.45
2:C:613:THR:HG21	3:D:464:LEU:CD1	2.47	0.45
3:D:407:VAL:N	3:D:410:ASP:HB2	2.30	0.45
3:D:419:ALA:O	3:D:423:ILE:HG12	2.17	0.45
1:E:316:THR:HG22	1:E:322:ARG:CG	2.47	0.45
1:E:359:ARG:HG2	1:E:360:PHE:N	2.32	0.45
1:E:515:LEU:HD13	1:E:634:LEU:HD21	1.98	0.45
1:H:390:LEU:HG	1:H:394:VAL:HG23	1.98	0.45
1:I:209:CYS:HG	1:I:212:GLN:HB2	1.82	0.45
1:I:216:ILE:HD13	1:I:254:ILE:HG21	1.99	0.45
1:I:244:TYR:CD1	1:I:244:TYR:C	2.91	0.45
1:I:605:LEU:HD23	1:I:608:MET:HE3	1.99	0.45
1:I:657:LEU:HD12	1:I:676:ALA:HB2	1.99	0.45
1:J:43:GLN:CD	1:J:75:ASP:HA	2.38	0.45
1:J:147:ARG:HG2	1:J:147:ARG:NH1	2.30	0.45
1:J:317:HIS:HA	1:J:322:ARG:HH21	1.82	0.45
1:J:673:GLU:OE1	1:J:673:GLU:N	2.49	0.45
1:K:551:TRP:CZ2	1:K:586:ARG:HG2	2.52	0.45
1:L:87:VAL:HG13	1:L:88:VAL:N	2.32	0.45
2:C:244:TYR:HA	2:C:347:THR:O	2.17	0.44
3:D:201:VAL:HG21	3:D:253:LEU:CD1	2.46	0.44
1:G:360:PHE:CD2	1:G:360:PHE:N	2.84	0.44
1:G:551:TRP:CZ2	1:G:586:ARG:HG2	2.52	0.44
1:I:503:PHE:HD2	1:I:510:PRO:HD3	1.82	0.44
1:J:26:LEU:HD12	1:J:82:ILE:CD1	2.46	0.44
1:J:538:ASN:HD22	1:J:569:ALA:HB1	1.82	0.44
1:L:503:PHE:HD2	1:L:510:PRO:HD3	1.82	0.44
1:A:359:ARG:HG2	1:A:360:PHE:N	2.32	0.44
1:B:244:TYR:HA	1:B:347:THR:O	2.17	0.44
1:B:325:VAL:O	1:B:329:LEU:HG	2.17	0.44
1:B:547:LEU:HD23	1:B:550:MET:CE	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:547:LEU:HD23	2:C:550:MET:CE	2.47	0.44
2:C:690:ILE:HD11	2:C:743:ALA:HB1	1.98	0.44
1:F:244:TYR:HA	1:F:347:THR:O	2.17	0.44
1:F:419:ALA:O	1:F:423:ILE:HG12	2.17	0.44
1:G:242:LEU:HD23	1:G:366:GLU:HG2	1.98	0.44
1:G:407:VAL:O	1:G:411:LEU:HD13	2.17	0.44
1:I:45:LYS:HE2	1:I:79:ASP:OD1	2.16	0.44
1:I:58:LEU:HG	1:I:68:VAL:HG12	1.97	0.44
1:I:360:PHE:CD2	1:I:360:PHE:N	2.84	0.44
1:I:407:VAL:O	1:I:411:LEU:HD13	2.17	0.44
1:J:41:LEU:CD2	1:J:82:ILE:HG12	2.47	0.44
1:J:51:LEU:CG	1:J:104:PRO:HB3	2.47	0.44
1:J:118:PRO:HB2	1:J:188:PRO:HB3	1.98	0.44
1:J:216:ILE:HD13	1:J:254:ILE:HG21	1.99	0.44
1:J:670:VAL:O	1:J:670:VAL:HG13	2.17	0.44
1:K:43:GLN:CD	1:K:75:ASP:HA	2.38	0.44
1:K:118:PRO:HB2	1:K:188:PRO:HB3	1.98	0.44
1:K:244:TYR:CD1	1:K:244:TYR:C	2.91	0.44
1:K:390:LEU:HG	1:K:394:VAL:HG23	1.98	0.44
1:L:657:LEU:HD12	1:L:676:ALA:HB2	1.99	0.44
1:A:547:LEU:HD23	1:A:550:MET:CE	2.48	0.44
1:B:359:ARG:HG2	1:B:360:PHE:N	2.32	0.44
1:B:406:HIS:HE2	1:B:459:SER:HB2	1.81	0.44
2:C:515:LEU:HD13	2:C:634:LEU:HD21	1.98	0.44
1:F:547:LEU:HD23	1:F:550:MET:CE	2.48	0.44
1:F:598:ASP:OD1	1:F:601:ILE:CB	2.66	0.44
1:H:45:LYS:HE2	1:H:79:ASP:OD1	2.16	0.44
1:H:702:SER:HB2	1:H:728:VAL:HG11	1.99	0.44
1:I:207:GLY:O	4:I:801:ADP:N6	2.47	0.44
1:I:317:HIS:HA	1:I:322:ARG:HH21	1.82	0.44
1:J:115:HIS:HB3	1:J:167:GLU:HB3	1.97	0.44
1:J:391:ALA:O	1:J:394:VAL:HG22	2.17	0.44
1:K:492:LEU:CD2	1:K:641:GLN:HG3	2.47	0.44
1:K:503:PHE:HD2	1:K:510:PRO:HD3	1.82	0.44
1:K:688:THR:O	1:K:692:GLN:HG2	2.17	0.44
1:K:763:GLN:HG3	1:K:764:GLN:N	2.33	0.44
1:L:244:TYR:C	1:L:244:TYR:CD1	2.91	0.44
1:A:539:PHE:CE2	1:A:541:SER:HB2	2.52	0.44
1:A:674:PHE:CD2	1:F:774:PRO:HD3	2.52	0.44
1:B:764:GLN:O	1:B:765:SER:HB2	2.16	0.44
2:C:380:ILE:HB	2:C:411:LEU:CD1	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:403:THR:CG2	2:C:411:LEU:HD21	2.48	0.44
3:D:247:PRO:HG3	3:D:348:ASN:HD21	1.81	0.44
3:D:284:SER:HB2	3:D:288:LYS:HZ3	1.79	0.44
3:D:359:ARG:HG2	3:D:360:PHE:N	2.32	0.44
3:D:512:LYS:HZ3	3:D:612:SER:HA	1.82	0.44
3:D:547:LEU:HD23	3:D:550:MET:CE	2.48	0.44
1:E:380:ILE:HB	1:E:411:LEU:CD1	2.48	0.44
1:E:547:LEU:HD23	1:E:550:MET:CE	2.48	0.44
1:E:607:GLU:OE1	1:F:465:ARG:NH1	2.48	0.44
1:F:247:PRO:HG3	1:F:348:ASN:HD21	1.81	0.44
1:G:26:LEU:HD22	1:G:59:LEU:HD22	1.99	0.44
1:G:51:LEU:CG	1:G:104:PRO:HB3	2.47	0.44
1:G:87:VAL:HG13	1:G:88:VAL:N	2.32	0.44
1:G:89:ARG:HH12	1:G:203:TYR:HE1	1.63	0.44
1:G:208:GLY:HA2	1:G:376:GLY:HA2	1.99	0.44
1:G:615:LYS:HE3	1:H:402:GLU:OE1	2.17	0.44
1:H:207:GLY:O	4:H:801:ADP:N6	2.47	0.44
1:H:313:ARG:O	1:H:314:GLU:C	2.54	0.44
1:H:391:ALA:O	1:H:394:VAL:HG22	2.17	0.44
1:H:489:LEU:HD21	1:H:516:PHE:CZ	2.51	0.44
1:H:763:GLN:HG3	1:H:764:GLN:N	2.33	0.44
1:I:26:LEU:HD22	1:I:59:LEU:HD22	1.99	0.44
1:I:228:ALA:CB	1:J:435:GLU:HA	2.47	0.44
1:I:269:ILE:HD11	1:I:289:ALA:CB	2.47	0.44
1:I:379:GLU:HG2	1:I:383:ILE:CD1	2.48	0.44
1:I:391:ALA:O	1:I:394:VAL:HG22	2.17	0.44
1:I:670:VAL:HG13	1:I:670:VAL:O	2.17	0.44
1:I:688:THR:O	1:I:692:GLN:HG2	2.17	0.44
1:J:191:ARG:HD2	1:J:192:GLU:H	1.82	0.44
1:J:407:VAL:O	1:J:411:LEU:HD13	2.17	0.44
1:J:657:LEU:HD12	1:J:676:ALA:HB2	1.99	0.44
1:K:485:VAL:HG11	1:K:527:LEU:HD21	1.99	0.44
1:L:89:ARG:HH12	1:L:203:TYR:HE1	1.63	0.44
1:L:115:HIS:HB3	1:L:167:GLU:HB3	1.97	0.44
1:L:605:LEU:HD21	1:L:633:ILE:CD1	2.26	0.44
1:B:201:VAL:HG12	1:B:260:ASN:ND2	2.33	0.44
2:C:220:VAL:HB	2:C:224:LEU:HD12	1.99	0.44
2:C:495:TYR:HB3	2:C:503:PHE:HE2	1.83	0.44
3:D:380:ILE:HB	3:D:411:LEU:CD1	2.48	0.44
1:F:515:LEU:HD13	1:F:634:LEU:HD21	1.98	0.44
1:G:674:PHE:CG	1:L:774:PRO:HD3	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:42:SER:CB	1:H:79:ASP:HA	2.48	0.44
1:H:87:VAL:HG13	1:H:88:VAL:N	2.32	0.44
1:I:87:VAL:HG13	1:I:88:VAL:N	2.32	0.44
1:I:605:LEU:HD21	1:I:633:ILE:CD1	2.26	0.44
1:J:95:ARG:HD2	1:J:225:ARG:NH1	2.33	0.44
1:J:485:VAL:HG11	1:J:527:LEU:HD21	1.99	0.44
1:J:763:GLN:HG3	1:J:764:GLN:N	2.33	0.44
1:K:42:SER:CB	1:K:79:ASP:HA	2.48	0.44
1:K:379:GLU:HG2	1:K:383:ILE:CD1	2.48	0.44
1:L:208:GLY:HA2	1:L:376:GLY:HA2	1.99	0.44
1:L:216:ILE:HD13	1:L:254:ILE:HG21	1.99	0.44
1:L:673:GLU:N	1:L:673:GLU:OE1	2.49	0.44
1:B:259:ALA:CB	1:B:266:PHE:HB2	2.48	0.44
1:B:430:ILE:HG13	1:B:431:ASP:N	2.32	0.44
3:D:278:LEU:N	3:D:281:GLU:OE2	2.51	0.44
3:D:753:ARG:HH12	1:K:761:THR:HA	1.81	0.44
1:F:543:LYS:HB2	1:F:543:LYS:HE2	1.45	0.44
1:G:313:ARG:O	1:G:314:GLU:C	2.54	0.44
1:G:317:HIS:HA	1:G:322:ARG:HH21	1.82	0.44
1:G:391:ALA:O	1:G:394:VAL:HG22	2.17	0.44
1:G:492:LEU:CD2	1:G:641:GLN:HG3	2.47	0.44
1:H:269:ILE:HD11	1:H:289:ALA:CB	2.48	0.44
1:H:317:HIS:HA	1:H:322:ARG:HH21	1.82	0.44
1:I:43:GLN:CD	1:I:75:ASP:HA	2.38	0.44
1:I:763:GLN:HG3	1:I:764:GLN:N	2.33	0.44
1:J:42:SER:CB	1:J:79:ASP:HA	2.48	0.44
1:J:207:GLY:O	4:J:801:ADP:N6	2.47	0.44
1:J:688:THR:O	1:J:692:GLN:HG2	2.17	0.44
1:J:702:SER:HB2	1:J:728:VAL:HG11	1.99	0.44
1:K:115:HIS:HB3	1:K:167:GLU:HB3	1.97	0.44
1:K:391:ALA:O	1:K:394:VAL:HG22	2.17	0.44
1:L:317:HIS:HA	1:L:322:ARG:HH21	1.82	0.44
1:L:407:VAL:O	1:L:411:LEU:HD13	2.17	0.44
1:A:220:VAL:HB	1:A:224:LEU:HD12	1.99	0.44
1:A:247:PRO:HG3	1:A:348:ASN:HD21	1.81	0.44
1:A:278:LEU:N	1:A:281:GLU:OE2	2.51	0.44
1:B:495:TYR:HB3	1:B:503:PHE:HE2	1.83	0.44
3:D:201:VAL:HG12	3:D:260:ASN:ND2	2.33	0.44
1:E:325:VAL:O	1:E:329:LEU:HG	2.17	0.44
1:F:259:ALA:CB	1:F:266:PHE:HB2	2.48	0.44
1:G:42:SER:CB	1:G:79:ASP:HA	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:391:ALA:HA	1:G:446:ALA:HB1	2.00	0.44
1:G:410:ASP:OD1	1:L:360:PHE:CE1	2.71	0.44
1:G:503:PHE:HD2	1:G:510:PRO:HD3	1.82	0.44
1:G:605:LEU:HD23	1:G:608:MET:HE3	1.99	0.44
1:G:763:GLN:HG3	1:G:764:GLN:N	2.33	0.44
1:H:43:GLN:N	1:H:44:PRO:CD	2.81	0.44
1:H:670:VAL:O	1:H:670:VAL:HG13	2.17	0.44
1:K:208:GLY:HA2	1:K:376:GLY:HA2	1.99	0.44
1:K:228:ALA:HB3	1:L:433:GLU:OE2	2.17	0.44
1:K:407:VAL:O	1:K:411:LEU:HD13	2.17	0.44
1:K:576:PHE:CB	1:K:579:LEU:HD13	2.42	0.44
1:L:208:GLY:HA2	1:L:376:GLY:CA	2.48	0.44
1:L:605:LEU:HD23	1:L:608:MET:HE3	2.00	0.44
1:A:276:SER:HB2	1:F:327:GLN:HA	2.00	0.44
1:A:327:GLN:CA	1:B:276:SER:HB2	2.48	0.44
1:A:495:TYR:HB3	1:A:503:PHE:HE2	1.83	0.44
1:A:575:PHE:HE2	1:A:577:ASP:HB2	1.83	0.44
1:E:752:ILE:HG22	1:J:766:ARG:NH2	2.33	0.44
1:G:208:GLY:HA2	1:G:376:GLY:CA	2.48	0.44
1:G:571:PRO:CA	1:G:616:ASN:HB3	2.39	0.44
1:G:703:ILE:N	1:L:502:LYS:HZ3	2.14	0.44
1:G:736:PHE:HB3	1:L:773:PHE:CE2	2.47	0.44
1:H:41:LEU:CD2	1:H:82:ILE:HG12	2.47	0.44
1:H:244:TYR:CD1	1:H:244:TYR:C	2.91	0.44
1:J:157:GLY:N	1:J:389:LYS:NZ	2.57	0.44
1:J:492:LEU:CD2	1:J:641:GLN:HG3	2.47	0.44
1:K:43:GLN:N	1:K:44:PRO:CD	2.81	0.44
1:K:51:LEU:CG	1:K:104:PRO:HB3	2.47	0.44
1:L:55:ASP:OD1	1:L:55:ASP:N	2.50	0.44
1:A:494:GLN:HG2	1:A:498:GLU:CG	2.48	0.44
1:B:247:PRO:HG3	1:B:348:ASN:HD21	1.81	0.44
1:B:380:ILE:HB	1:B:411:LEU:CD1	2.48	0.44
2:C:598:ASP:OD1	2:C:601:ILE:CB	2.66	0.44
1:E:201:VAL:HG12	1:E:260:ASN:ND2	2.33	0.44
1:H:153:LEU:HD12	1:H:162:GLU:HB3	2.00	0.44
1:H:513:GLY:HA2	1:H:619:ILE:O	2.18	0.44
1:H:657:LEU:HD12	1:H:676:ALA:HB2	1.99	0.44
1:I:42:SER:CB	1:I:79:ASP:HA	2.48	0.44
1:J:43:GLN:N	1:J:44:PRO:CD	2.81	0.44
1:J:208:GLY:HA2	1:J:376:GLY:CA	2.48	0.44
1:J:503:PHE:HD2	1:J:510:PRO:HD3	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:216:ILE:HD13	1:K:254:ILE:HG21	1.99	0.44
1:K:582:ILE:HG21	1:K:598:ASP:OD2	2.18	0.44
1:L:157:GLY:N	1:L:389:LYS:NZ	2.57	0.44
1:A:325:VAL:O	1:A:329:LEU:HG	2.17	0.43
1:A:380:ILE:HB	1:A:411:LEU:CD1	2.48	0.43
3:D:426:LYS:C	3:D:428:ASP:H	2.21	0.43
3:D:495:TYR:HB3	3:D:503:PHE:HE2	1.83	0.43
3:D:506:PHE:CD2	1:E:699:ILE:HG12	2.53	0.43
1:E:228:ALA:CB	1:F:435:GLU:O	2.56	0.43
1:F:494:GLN:HG2	1:F:498:GLU:CG	2.48	0.43
1:F:495:TYR:HB3	1:F:503:PHE:HE2	1.83	0.43
1:G:390:LEU:HG	1:G:394:VAL:HG23	1.98	0.43
1:G:485:VAL:HG11	1:G:527:LEU:HD21	1.99	0.43
1:G:513:GLY:HA2	1:G:619:ILE:O	2.18	0.43
1:H:130:LEU:HD11	1:H:131:PHE:CE1	2.53	0.43
1:H:219:MET:HE2	1:H:365:ARG:NH1	2.22	0.43
1:I:492:LEU:CD2	1:I:641:GLN:HG3	2.47	0.43
5:I:802:Y6Y:C26	5:I:802:Y6Y:O2	2.67	0.43
1:J:87:VAL:HG13	1:J:88:VAL:N	2.32	0.43
1:J:149:GLY:HA2	1:J:164:LYS:CE	2.36	0.43
1:J:330:THR:O	1:J:334:GLY:N	2.52	0.43
1:K:604:ILE:HG22	1:K:608:MET:HE2	1.99	0.43
1:L:551:TRP:CZ2	1:L:586:ARG:HG2	2.52	0.43
1:B:426:LYS:C	1:B:428:ASP:H	2.21	0.43
2:C:494:GLN:HG2	2:C:498:GLU:CG	2.48	0.43
1:G:43:GLN:N	1:G:44:PRO:CD	2.81	0.43
1:G:155:ARG:HD2	1:G:387:ASN:OD1	2.19	0.43
1:H:95:ARG:HD2	1:H:225:ARG:NH1	2.33	0.43
1:H:191:ARG:HD2	1:H:192:GLU:H	1.82	0.43
1:H:391:ALA:HA	1:H:446:ALA:HB1	2.00	0.43
1:H:394:VAL:CG1	1:H:449:MET:CA	2.97	0.43
1:H:487:ARG:HH22	1:I:700:ARG:HH11	1.64	0.43
1:H:503:PHE:HD2	1:H:510:PRO:HD3	1.82	0.43
1:H:602:ASN:ND2	1:I:548:LEU:CB	2.81	0.43
1:I:41:LEU:CD2	1:I:82:ILE:HG12	2.47	0.43
1:J:155:ARG:HD2	1:J:387:ASN:OD1	2.19	0.43
1:J:172:PRO:HG2	1:J:173:TYR:CD1	2.54	0.43
1:J:313:ARG:O	1:J:314:GLU:C	2.54	0.43
1:K:502:LYS:HZ3	1:L:703:ILE:CA	2.31	0.43
1:K:670:VAL:O	1:K:670:VAL:HG13	2.17	0.43
5:K:802:Y6Y:C26	5:K:802:Y6Y:O2	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:42:SER:CB	1:L:79:ASP:HA	2.48	0.43
1:L:330:THR:O	1:L:334:GLY:N	2.52	0.43
1:L:390:LEU:HG	1:L:394:VAL:HG23	1.98	0.43
1:L:485:VAL:HG11	1:L:527:LEU:HD21	1.99	0.43
1:L:513:GLY:HA2	1:L:619:ILE:O	2.18	0.43
1:A:201:VAL:HG21	1:A:253:LEU:CD1	2.46	0.43
1:A:430:ILE:HG13	1:A:431:ASP:N	2.32	0.43
1:B:278:LEU:N	1:B:281:GLU:OE2	2.51	0.43
1:B:508:MET:HE3	2:C:692:GLN:O	2.18	0.43
1:B:512:LYS:HZ3	1:B:612:SER:HA	1.82	0.43
1:B:517:TYR:CE2	1:B:644:TYR:HB2	2.53	0.43
1:B:564:ASP:O	1:B:568:GLN:HG2	2.19	0.43
1:B:598:ASP:OD1	1:B:601:ILE:CB	2.66	0.43
2:C:201:VAL:HG12	2:C:260:ASN:ND2	2.33	0.43
2:C:564:ASP:O	2:C:568:GLN:HG2	2.19	0.43
2:C:760:GLN:HG2	1:L:760:GLN:CD	2.38	0.43
1:E:426:LYS:C	1:E:428:ASP:H	2.21	0.43
1:E:495:TYR:HB3	1:E:503:PHE:HE2	1.83	0.43
1:E:506:PHE:CD2	1:F:699:ILE:HG12	2.53	0.43
1:G:379:GLU:HG2	1:G:383:ILE:CD1	2.48	0.43
1:H:43:GLN:CD	1:H:75:ASP:HA	2.37	0.43
1:H:538:ASN:HD22	1:H:569:ALA:HB1	1.81	0.43
5:H:802:Y6Y:C26	5:H:802:Y6Y:O2	2.66	0.43
1:I:43:GLN:N	1:I:44:PRO:CD	2.81	0.43
1:I:172:PRO:HG2	1:I:173:TYR:CD1	2.54	0.43
1:I:208:GLY:HA2	1:I:376:GLY:CA	2.48	0.43
1:J:55:ASP:OD1	1:J:55:ASP:N	2.50	0.43
1:J:575:PHE:HE2	1:J:577:ASP:HB2	1.81	0.43
5:J:802:Y6Y:C26	5:J:802:Y6Y:O2	2.66	0.43
1:K:232:ALA:HB2	1:L:436:THR:HA	2.01	0.43
1:K:330:THR:O	1:K:334:GLY:N	2.52	0.43
1:K:575:PHE:HE2	1:K:577:ASP:HB2	1.81	0.43
1:L:391:ALA:HA	1:L:446:ALA:HB1	2.00	0.43
1:A:259:ALA:CB	1:A:266:PHE:HB2	2.48	0.43
1:B:306:LEU:HD22	1:B:345:ALA:CB	2.48	0.43
1:B:403:THR:CG2	1:B:411:LEU:HD21	2.48	0.43
1:B:494:GLN:HG2	1:B:498:GLU:CG	2.48	0.43
3:D:764:GLN:OE1	1:E:742:PHE:CD2	2.72	0.43
1:E:278:LEU:N	1:E:281:GLU:OE2	2.51	0.43
1:E:494:GLN:HG2	1:E:498:GLU:CG	2.48	0.43
1:E:598:ASP:OD1	1:E:601:ILE:CB	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:380:ILE:HB	1:F:411:LEU:CD1	2.48	0.43
1:G:424:ARG:CG	1:L:222:LEU:HD21	2.43	0.43
1:G:506:PHE:CD2	1:H:699:ILE:HG12	2.54	0.43
5:G:802:Y6Y:C26	5:G:802:Y6Y:O2	2.66	0.43
1:H:216:ILE:HD13	1:H:254:ILE:HG21	1.99	0.43
1:H:379:GLU:HG2	1:H:383:ILE:CD1	2.48	0.43
1:H:485:VAL:HG11	1:H:527:LEU:HD21	1.99	0.43
1:H:576:PHE:CB	1:H:579:LEU:HD13	2.42	0.43
1:I:153:LEU:HD12	1:I:162:GLU:HB3	2.00	0.43
1:I:233:ILE:HD11	1:J:158:MET:CB	2.21	0.43
1:I:582:ILE:HG21	1:I:598:ASP:OD2	2.18	0.43
1:J:379:GLU:HG2	1:J:383:ILE:CD1	2.48	0.43
1:J:513:GLY:HA2	1:J:619:ILE:O	2.18	0.43
1:K:87:VAL:HG13	1:K:88:VAL:N	2.32	0.43
1:K:95:ARG:HD2	1:K:225:ARG:NH1	2.33	0.43
1:K:317:HIS:HA	1:K:322:ARG:HH21	1.82	0.43
1:A:426:LYS:C	1:A:428:ASP:H	2.21	0.43
1:A:517:TYR:CE2	1:A:644:TYR:HB2	2.53	0.43
1:A:602:ASN:OD1	1:B:548:LEU:HB2	2.19	0.43
2:C:259:ALA:CB	2:C:266:PHE:HB2	2.48	0.43
2:C:259:ALA:HB1	2:C:266:PHE:HB2	2.01	0.43
3:D:220:VAL:HB	3:D:224:LEU:HD12	1.99	0.43
3:D:259:ALA:CB	3:D:266:PHE:HB2	2.48	0.43
1:E:306:LEU:HD22	1:E:345:ALA:CB	2.48	0.43
1:F:201:VAL:HG12	1:F:260:ASN:ND2	2.33	0.43
1:F:306:LEU:HD22	1:F:345:ALA:CB	2.48	0.43
1:H:313:ARG:HB3	1:H:314:GLU:H	1.58	0.43
1:H:333:ASP:OD2	1:H:362:ARG:NH2	2.44	0.43
1:I:55:ASP:OD1	1:I:55:ASP:N	2.50	0.43
1:I:130:LEU:HD11	1:I:131:PHE:CE1	2.53	0.43
1:I:155:ARG:HD2	1:I:387:ASN:OD1	2.19	0.43
1:K:155:ARG:HD2	1:K:387:ASN:OD1	2.19	0.43
1:L:379:GLU:HG2	1:L:383:ILE:CD1	2.48	0.43
1:L:568:GLN:OE1	1:L:568:GLN:HA	2.19	0.43
2:C:321:GLU:O	2:C:325:VAL:HG23	2.19	0.43
2:C:426:LYS:C	2:C:428:ASP:H	2.21	0.43
3:D:210:ARG:O	3:D:211:LYS:CG	2.62	0.43
3:D:259:ALA:HB1	3:D:266:PHE:HB2	2.01	0.43
3:D:517:TYR:CE2	3:D:644:TYR:HB2	2.53	0.43
3:D:564:ASP:O	3:D:568:GLN:HG2	2.18	0.43
3:D:598:ASP:OD1	3:D:601:ILE:CB	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:360:PHE:HZ	1:F:462:SER:OG	2.02	0.43
1:F:426:LYS:C	1:F:428:ASP:H	2.21	0.43
1:F:430:ILE:HG13	1:F:431:ASP:N	2.32	0.43
1:G:130:LEU:HD11	1:G:131:PHE:CE1	2.53	0.43
1:G:153:LEU:HD12	1:G:162:GLU:HB3	2.00	0.43
1:G:657:LEU:HD12	1:G:676:ALA:HB2	1.99	0.43
1:G:702:SER:HB2	1:G:728:VAL:HG11	1.99	0.43
1:H:172:PRO:HG2	1:H:173:TYR:CD1	2.54	0.43
1:H:330:THR:O	1:H:334:GLY:N	2.52	0.43
1:H:472:PRO:HD3	1:H:539:PHE:HB2	2.00	0.43
1:H:568:GLN:OE1	1:H:568:GLN:HA	2.19	0.43
1:J:491:GLU:O	1:J:495:TYR:HB2	2.19	0.43
1:J:582:ILE:HG21	1:J:598:ASP:OD2	2.18	0.43
1:L:26:LEU:HD22	1:L:59:LEU:HD22	1.99	0.43
1:L:43:GLN:N	1:L:44:PRO:CD	2.81	0.43
5:L:802:Y6Y:C26	5:L:802:Y6Y:O2	2.67	0.43
1:A:310:ALA:HB3	1:A:357:LEU:HD11	2.01	0.43
1:A:321:GLU:O	1:A:325:VAL:HG23	2.19	0.43
1:A:564:ASP:O	1:A:568:GLN:HG2	2.19	0.43
1:A:760:GLN:HG2	1:H:760:GLN:CD	2.36	0.43
1:B:210:ARG:O	1:B:211:LYS:CG	2.62	0.43
2:C:278:LEU:N	2:C:281:GLU:OE2	2.51	0.43
2:C:306:LEU:HD22	2:C:345:ALA:CB	2.48	0.43
2:C:517:TYR:CE2	2:C:644:TYR:HB2	2.53	0.43
3:D:494:GLN:HG2	3:D:498:GLU:CG	2.48	0.43
3:D:711:ARG:HH11	3:D:711:ARG:HD2	1.69	0.43
1:E:219:MET:HG2	1:E:365:ARG:HH22	1.77	0.43
1:E:419:ALA:O	1:E:423:ILE:HG12	2.17	0.43
1:F:321:GLU:O	1:F:325:VAL:HG23	2.19	0.43
1:H:406:HIS:HE1	1:H:459:SER:CB	2.31	0.43
1:I:330:THR:O	1:I:334:GLY:N	2.52	0.43
1:I:538:ASN:HD22	1:I:569:ALA:HB1	1.81	0.43
1:J:773:PHE:CE1	1:K:675:LEU:HB2	2.54	0.43
1:L:43:GLN:CD	1:L:75:ASP:HA	2.38	0.43
1:A:336:LYS:HE2	1:A:338:ARG:HB2	2.01	0.43
1:B:310:ALA:HB3	1:B:357:LEU:HD11	2.01	0.43
2:C:594:GLY:HA2	3:D:586:ARG:C	2.39	0.43
3:D:773:PHE:CZ	1:E:670:VAL:HG23	2.54	0.43
1:E:259:ALA:HB1	1:E:266:PHE:HB2	2.01	0.43
1:E:310:ALA:HB3	1:E:357:LEU:HD11	2.01	0.43
1:F:278:LEU:N	1:F:281:GLU:OE2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:310:ALA:HB3	1:F:357:LEU:HD11	2.01	0.43
1:F:619:ILE:CG2	1:F:639:LEU:HD21	2.49	0.43
1:G:43:GLN:CD	1:G:75:ASP:HA	2.37	0.43
1:G:172:PRO:HG2	1:G:173:TYR:CD1	2.54	0.43
1:G:317:HIS:CE1	1:H:317:HIS:C	2.92	0.43
1:G:394:VAL:CG1	1:G:449:MET:CA	2.97	0.43
1:G:410:ASP:OD1	1:L:360:PHE:HE1	2.02	0.43
1:G:670:VAL:HG13	1:G:670:VAL:O	2.17	0.43
1:G:769:GLY:O	1:H:741:ARG:NH2	2.46	0.43
1:H:208:GLY:HA2	1:H:376:GLY:CA	2.48	0.43
1:H:356:ALA:O	1:H:362:ARG:NH1	2.41	0.43
1:H:489:LEU:HD11	1:H:516:PHE:CZ	2.54	0.43
1:I:491:GLU:O	1:I:495:TYR:HB2	2.19	0.43
1:I:571:PRO:CA	1:I:616:ASN:HB3	2.39	0.43
1:J:228:ALA:CB	1:K:435:GLU:HA	2.47	0.43
1:J:391:ALA:HA	1:J:446:ALA:HB1	2.00	0.43
1:J:394:VAL:CG1	1:J:449:MET:CA	2.97	0.43
1:K:489:LEU:HD11	1:K:516:PHE:CZ	2.54	0.43
1:K:491:GLU:O	1:K:495:TYR:HB2	2.19	0.43
1:A:201:VAL:HG12	1:A:260:ASN:ND2	2.33	0.43
1:B:327:GLN:HA	2:C:276:SER:HB2	2.01	0.43
1:E:259:ALA:CB	1:E:266:PHE:HB2	2.48	0.43
1:E:321:GLU:O	1:E:325:VAL:HG23	2.19	0.43
1:E:563:PHE:HD2	1:E:611:MET:HE3	1.84	0.43
1:E:619:ILE:CG2	1:E:639:LEU:HD21	2.49	0.43
1:F:220:VAL:HB	1:F:224:LEU:HD12	1.99	0.43
1:F:512:LYS:HZ3	1:F:612:SER:HA	1.84	0.43
1:G:317:HIS:CD2	1:L:317:HIS:NE2	2.86	0.43
1:G:568:GLN:OE1	1:G:568:GLN:HA	2.19	0.43
1:G:582:ILE:HG21	1:G:598:ASP:OD2	2.18	0.43
1:I:489:LEU:HD11	1:I:516:PHE:CZ	2.54	0.43
1:I:506:PHE:CD2	1:J:699:ILE:HG12	2.54	0.43
1:I:722:VAL:O	1:I:722:VAL:HG22	2.19	0.43
1:K:208:GLY:HA2	1:K:376:GLY:CA	2.48	0.43
1:K:702:SER:HB2	1:K:728:VAL:HG11	1.99	0.43
1:L:394:VAL:CG1	1:L:449:MET:CA	2.97	0.43
1:E:327:GLN:O	1:E:330:THR:OG1	2.34	0.43
1:E:407:VAL:N	1:E:410:ASP:HB2	2.30	0.43
1:G:318:GLY:HA2	1:L:317:HIS:HE1	1.81	0.43
1:H:582:ILE:HG21	1:H:598:ASP:OD2	2.18	0.43
1:J:426:LYS:O	1:J:428:ASP:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:472:PRO:HD3	1:J:539:PHE:HB2	2.00	0.43
1:K:391:ALA:HA	1:K:446:ALA:HB1	2.00	0.43
1:K:394:VAL:CG1	1:K:449:MET:CA	2.97	0.43
1:L:207:GLY:O	4:L:801:ADP:N6	2.47	0.43
1:L:763:GLN:HG3	1:L:764:GLN:N	2.33	0.43
1:B:437:ILE:HD12	1:B:442:MET:HB3	2.01	0.42
2:C:505:LYS:NZ	3:D:729:PRO:O	2.50	0.42
3:D:306:LEU:HD22	3:D:345:ALA:CB	2.48	0.42
3:D:502:LYS:HD2	1:E:703:ILE:HG12	2.00	0.42
1:E:564:ASP:O	1:E:568:GLN:HG2	2.19	0.42
1:F:243:LEU:HD11	1:F:344:MET:HE2	2.00	0.42
1:G:406:HIS:HE1	1:G:459:SER:CB	2.31	0.42
1:I:333:ASP:OD2	1:I:362:ARG:NH2	2.44	0.42
1:I:391:ALA:HA	1:I:446:ALA:HB1	2.00	0.42
1:I:702:SER:CB	1:I:728:VAL:CG1	2.96	0.42
1:J:41:LEU:HD23	1:J:82:ILE:HG12	2.02	0.42
1:L:702:SER:HB2	1:L:728:VAL:HG11	1.99	0.42
1:A:306:LEU:HD22	1:A:345:ALA:CB	2.48	0.42
1:A:327:GLN:O	1:A:330:THR:OG1	2.34	0.42
1:A:403:THR:CG2	1:A:411:LEU:HD21	2.48	0.42
1:A:619:ILE:CG2	1:A:639:LEU:HD21	2.49	0.42
1:A:703:ILE:HG21	1:F:495:TYR:HE1	1.75	0.42
3:D:310:ALA:HB3	3:D:357:LEU:HD11	2.01	0.42
1:E:220:VAL:HB	1:E:224:LEU:HD12	1.99	0.42
1:E:243:LEU:HD11	1:E:344:MET:HE2	2.00	0.42
1:E:390:LEU:HD21	1:E:396:LEU:HG	2.01	0.42
1:E:517:TYR:CE2	1:E:644:TYR:HB2	2.53	0.42
1:E:642:LEU:HD22	1:E:762:LEU:HD11	2.01	0.42
1:F:564:ASP:O	1:F:568:GLN:HG2	2.19	0.42
1:I:394:VAL:CG1	1:I:449:MET:HB2	2.49	0.42
1:I:513:GLY:HA2	1:I:619:ILE:O	2.18	0.42
1:J:384:HIS:NE2	1:J:412:ALA:HB2	2.35	0.42
1:J:394:VAL:CG1	1:J:449:MET:HB2	2.50	0.42
1:J:514:VAL:HG11	1:J:516:PHE:CE1	2.54	0.42
1:J:605:LEU:HD23	1:J:608:MET:HE3	2.00	0.42
1:K:55:ASP:N	1:K:55:ASP:OD1	2.50	0.42
1:K:153:LEU:HD12	1:K:162:GLU:HB3	2.00	0.42
1:K:384:HIS:NE2	1:K:412:ALA:HB2	2.35	0.42
1:K:472:PRO:HD3	1:K:539:PHE:HB2	2.00	0.42
1:L:155:ARG:HD2	1:L:387:ASN:OD1	2.19	0.42
1:L:384:HIS:NE2	1:L:412:ALA:HB2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:406:HIS:HE1	1:L:459:SER:CB	2.31	0.42
1:L:489:LEU:HD11	1:L:516:PHE:CZ	2.54	0.42
1:A:654:VAL:CG2	1:A:676:ALA:HB3	2.49	0.42
1:B:543:LYS:HB2	1:B:543:LYS:HE2	1.45	0.42
1:B:547:LEU:HD23	1:B:550:MET:HE3	2.01	0.42
2:C:284:SER:HB2	2:C:288:LYS:HZ3	1.82	0.42
2:C:508:MET:HE1	3:D:692:GLN:O	2.19	0.42
2:C:619:ILE:CG2	2:C:639:LEU:HD21	2.49	0.42
2:C:662:ARG:HG3	2:C:663:LYS:N	2.35	0.42
3:D:619:ILE:CG2	3:D:639:LEU:HD21	2.49	0.42
1:E:330:THR:CG2	1:F:273:GLU:HA	2.49	0.42
1:E:336:LYS:HE2	1:E:338:ARG:HB2	2.01	0.42
1:E:378:LEU:HD21	1:E:382:GLN:NE2	2.35	0.42
1:E:662:ARG:HG3	1:E:663:LYS:N	2.35	0.42
1:F:437:ILE:HD12	1:F:442:MET:HB3	2.01	0.42
1:F:642:LEU:HD22	1:F:762:LEU:HD11	2.01	0.42
1:G:491:GLU:O	1:G:495:TYR:HB2	2.19	0.42
1:H:41:LEU:HD23	1:H:82:ILE:HG12	2.02	0.42
1:I:514:VAL:HG11	1:I:516:PHE:CE1	2.54	0.42
1:I:589:ASN:HB2	1:I:625:ARG:HH22	1.85	0.42
1:J:602:ASN:ND2	1:K:548:LEU:HB2	2.30	0.42
1:K:116:VAL:HG13	1:K:163:PHE:HB3	2.02	0.42
1:K:209:CYS:HG	1:K:212:GLN:HB2	1.84	0.42
1:K:394:VAL:CG1	1:K:449:MET:HB2	2.50	0.42
1:K:513:GLY:HA2	1:K:619:ILE:O	2.18	0.42
1:K:568:GLN:OE1	1:K:568:GLN:HA	2.19	0.42
1:L:130:LEU:HD11	1:L:131:PHE:CE1	2.53	0.42
1:L:153:LEU:HD12	1:L:162:GLU:HB3	2.00	0.42
1:L:333:ASP:OD2	1:L:362:ARG:NH2	2.44	0.42
1:A:492:LEU:CD2	1:A:641:GLN:HG3	2.50	0.42
1:A:764:GLN:OE1	1:B:742:PHE:HD2	2.02	0.42
1:B:259:ALA:HB1	1:B:266:PHE:HB2	2.01	0.42
1:B:336:LYS:HE2	1:B:338:ARG:HB2	2.01	0.42
2:C:247:PRO:HG3	2:C:348:ASN:HD21	1.81	0.42
3:D:321:GLU:O	3:D:325:VAL:HG23	2.19	0.42
3:D:336:LYS:HE2	3:D:338:ARG:HB2	2.01	0.42
3:D:662:ARG:HG3	3:D:663:LYS:N	2.35	0.42
1:E:313:ARG:O	1:E:314:GLU:HB2	2.20	0.42
1:E:437:ILE:HD12	1:E:442:MET:HB3	2.01	0.42
1:E:752:ILE:CG2	1:J:766:ARG:HH21	2.31	0.42
1:F:390:LEU:HD21	1:F:396:LEU:HG	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:517:TYR:CE2	1:F:644:TYR:HB2	2.53	0.42
1:G:614:LYS:O	1:G:615:LYS:HB2	2.19	0.42
1:H:155:ARG:HD2	1:H:387:ASN:OD1	2.19	0.42
1:H:315:LYS:HG3	1:H:315:LYS:O	2.20	0.42
1:H:492:LEU:CD2	1:H:641:GLN:HG3	2.47	0.42
1:I:27:ILE:H	1:I:82:ILE:HD13	1.85	0.42
1:I:95:ARG:HD2	1:I:225:ARG:NH1	2.33	0.42
1:I:315:LYS:HG3	1:I:315:LYS:O	2.20	0.42
1:I:384:HIS:NE2	1:I:412:ALA:HB2	2.35	0.42
1:J:153:LEU:HD12	1:J:162:GLU:HB3	2.00	0.42
1:J:614:LYS:O	1:J:615:LYS:HB2	2.19	0.42
1:K:333:ASP:OD2	1:K:362:ARG:NH2	2.44	0.42
1:K:406:HIS:HE1	1:K:459:SER:CB	2.31	0.42
1:K:426:LYS:O	1:K:428:ASP:N	2.52	0.42
1:K:614:LYS:O	1:K:615:LYS:HB2	2.20	0.42
1:K:722:VAL:O	1:K:722:VAL:HG22	2.19	0.42
1:K:773:PHE:HE2	1:L:736:PHE:CB	2.31	0.42
1:L:27:ILE:H	1:L:82:ILE:HD13	1.85	0.42
1:L:472:PRO:HD3	1:L:539:PHE:HB2	2.00	0.42
1:A:703:ILE:HG12	1:F:502:LYS:HD2	2.01	0.42
1:B:330:THR:HG21	2:C:273:GLU:HA	2.01	0.42
1:B:505:LYS:NZ	2:C:729:PRO:O	2.52	0.42
1:B:662:ARG:HG3	1:B:663:LYS:N	2.35	0.42
1:B:768:PHE:CD1	2:C:740:MET:HE2	2.54	0.42
3:D:336:LYS:O	3:D:337:GLN:CG	2.62	0.42
3:D:378:LEU:HD21	3:D:382:GLN:NE2	2.35	0.42
3:D:508:MET:HE3	1:E:696:LYS:HB2	2.01	0.42
3:D:654:VAL:CG2	3:D:676:ALA:HB3	2.49	0.42
1:E:403:THR:CG2	1:E:411:LEU:HD21	2.48	0.42
1:E:492:LEU:CD2	1:E:641:GLN:HG3	2.50	0.42
1:F:313:ARG:O	1:F:314:GLU:HB2	2.20	0.42
1:F:711:ARG:HH11	1:F:711:ARG:HD2	1.69	0.42
1:G:315:LYS:HG3	1:G:315:LYS:O	2.20	0.42
1:G:472:PRO:HD3	1:G:539:PHE:HB2	2.00	0.42
1:H:235:VAL:HG11	1:I:420:LEU:HD21	2.01	0.42
1:H:514:VAL:HG11	1:H:516:PHE:CE1	2.54	0.42
1:I:41:LEU:HD23	1:I:82:ILE:HG12	2.02	0.42
1:I:157:GLY:H	1:I:389:LYS:HZ2	1.63	0.42
1:I:221:GLU:O	1:I:225:ARG:HB3	2.20	0.42
1:I:394:VAL:CG1	1:I:449:MET:CA	2.97	0.42
1:I:472:PRO:HD3	1:I:539:PHE:HB2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:568:GLN:OE1	1:I:568:GLN:HA	2.19	0.42
1:I:605:LEU:HA	1:I:608:MET:HE2	2.02	0.42
1:J:27:ILE:H	1:J:82:ILE:HD13	1.85	0.42
1:J:315:LYS:HG3	1:J:315:LYS:O	2.20	0.42
1:J:506:PHE:CD2	1:K:699:ILE:HG12	2.54	0.42
1:J:589:ASN:HB2	1:J:625:ARG:HH22	1.85	0.42
1:K:773:PHE:CE2	1:L:736:PHE:HB3	2.52	0.42
1:L:582:ILE:HG21	1:L:598:ASP:OD2	2.18	0.42
1:L:722:VAL:HG22	1:L:722:VAL:O	2.19	0.42
1:B:321:GLU:O	1:B:325:VAL:HG23	2.19	0.42
1:B:580:ASP:OD2	1:B:623:THR:OG1	2.27	0.42
3:D:313:ARG:O	3:D:314:GLU:HB2	2.20	0.42
3:D:492:LEU:CD2	3:D:641:GLN:HG3	2.50	0.42
1:E:601:ILE:CG2	1:E:633:ILE:HD11	2.48	0.42
1:F:378:LEU:HD21	1:F:382:GLN:NE2	2.35	0.42
1:F:403:THR:CG2	1:F:411:LEU:HD21	2.48	0.42
1:G:41:LEU:HD23	1:G:82:ILE:HG12	2.01	0.42
1:G:330:THR:O	1:G:334:GLY:N	2.52	0.42
1:G:364:ASP:N	1:G:364:ASP:OD1	2.42	0.42
1:G:489:LEU:HD11	1:G:516:PHE:CZ	2.54	0.42
1:G:722:VAL:HG22	1:G:722:VAL:O	2.19	0.42
1:G:774:PRO:HD3	1:H:674:PHE:CG	2.54	0.42
1:H:27:ILE:H	1:H:82:ILE:HD13	1.85	0.42
1:H:589:ASN:HB2	1:H:625:ARG:HH22	1.85	0.42
1:I:426:LYS:O	1:I:428:ASP:N	2.52	0.42
1:J:486:LYS:HE2	1:J:490:GLN:OE1	2.20	0.42
1:J:722:VAL:HG22	1:J:722:VAL:O	2.19	0.42
1:K:41:LEU:HD23	1:K:82:ILE:HG12	2.02	0.42
1:K:110:TYR:CD1	1:K:175:ILE:HG23	2.55	0.42
1:K:130:LEU:HD11	1:K:131:PHE:CE1	2.53	0.42
1:L:41:LEU:HD23	1:L:82:ILE:HG12	2.02	0.42
1:L:110:TYR:CD1	1:L:175:ILE:HG23	2.55	0.42
1:L:116:VAL:HG13	1:L:163:PHE:HB3	2.02	0.42
1:A:390:LEU:HD21	1:A:396:LEU:HG	2.02	0.42
1:A:407:VAL:N	1:A:410:ASP:HB2	2.30	0.42
1:B:216:ILE:HD11	1:B:243:LEU:HD22	2.01	0.42
1:B:492:LEU:CD2	1:B:641:GLN:HG3	2.50	0.42
1:B:760:GLN:HG2	1:G:760:GLN:CD	2.38	0.42
2:C:310:ALA:HB3	2:C:357:LEU:HD11	2.01	0.42
2:C:437:ILE:HD12	2:C:442:MET:HB3	2.01	0.42
2:C:560:ARG:NH1	3:D:465:ARG:HD3	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:437:ILE:HD12	3:D:442:MET:HB3	2.01	0.42
3:D:469:VAL:HG11	3:D:569:ALA:CB	2.50	0.42
1:E:312:LYS:NZ	1:E:317:HIS:O	2.37	0.42
1:F:336:LYS:HE2	1:F:338:ARG:HB2	2.01	0.42
1:F:678:MET:CE	1:F:678:MET:CA	2.96	0.42
1:G:132:GLU:OE1	1:G:132:GLU:N	2.42	0.42
1:H:426:LYS:O	1:H:428:ASP:N	2.52	0.42
1:H:607:GLU:OE1	1:I:465:ARG:NH2	2.52	0.42
1:H:614:LYS:O	1:H:615:LYS:HB2	2.19	0.42
1:H:749:ASP:OD1	1:H:749:ASP:O	2.38	0.42
1:I:403:THR:O	1:I:403:THR:CG2	2.66	0.42
1:I:486:LYS:HE2	1:I:490:GLN:OE1	2.20	0.42
1:I:575:PHE:HE2	1:I:577:ASP:HB2	1.81	0.42
1:K:153:LEU:HD23	1:K:155:ARG:NE	2.35	0.42
1:K:486:LYS:HE2	1:K:490:GLN:OE1	2.20	0.42
1:L:30:GLU:O	1:L:83:ARG:HD2	2.20	0.42
1:L:575:PHE:HE2	1:L:577:ASP:HB2	1.81	0.42
1:L:614:LYS:O	1:L:615:LYS:HB2	2.19	0.42
1:A:243:LEU:HD11	1:A:344:MET:HE2	1.98	0.42
1:B:495:TYR:CD1	2:C:703:ILE:HD13	2.55	0.42
1:B:619:ILE:CG2	1:B:639:LEU:HD21	2.49	0.42
2:C:378:LEU:HD21	2:C:382:GLN:NE2	2.35	0.42
2:C:654:VAL:CG2	2:C:676:ALA:HB3	2.49	0.42
1:E:633:ILE:O	1:E:638:ARG:HB3	2.20	0.42
1:F:259:ALA:HB1	1:F:266:PHE:HB2	2.01	0.42
1:F:662:ARG:HG3	1:F:663:LYS:N	2.35	0.42
1:G:157:GLY:N	1:G:389:LYS:NZ	2.57	0.42
1:H:317:HIS:NE2	1:I:317:HIS:CD2	2.88	0.42
1:H:571:PRO:CA	1:H:616:ASN:HB3	2.39	0.42
1:H:722:VAL:O	1:H:722:VAL:HG22	2.19	0.42
1:I:59:LEU:HD23	1:I:102:ILE:HA	2.02	0.42
1:J:130:LEU:HD11	1:J:131:PHE:CE1	2.53	0.42
1:J:489:LEU:HD11	1:J:516:PHE:CZ	2.54	0.42
1:K:59:LEU:HD23	1:K:102:ILE:HA	2.02	0.42
1:K:749:ASP:OD1	1:K:749:ASP:O	2.38	0.42
1:L:59:LEU:HD23	1:L:102:ILE:HA	2.02	0.42
1:L:394:VAL:CG1	1:L:449:MET:HB2	2.50	0.42
1:L:514:VAL:HG11	1:L:516:PHE:CE1	2.54	0.42
1:A:259:ALA:HB1	1:A:266:PHE:HB2	2.01	0.42
1:A:270:ASN:HB3	1:A:273:GLU:CB	2.50	0.42
1:A:437:ILE:HG21	1:F:229:LEU:HG	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:598:ASP:OD1	1:A:601:ILE:CB	2.66	0.42
1:B:378:LEU:HD21	1:B:382:GLN:NE2	2.35	0.42
2:C:469:VAL:HG11	2:C:569:ALA:CB	2.50	0.42
2:C:575:PHE:HE2	2:C:577:ASP:HB2	1.83	0.42
3:D:390:LEU:HD21	3:D:396:LEU:HG	2.02	0.42
1:E:345:ALA:HB2	1:E:363:PHE:CZ	2.55	0.42
1:E:469:VAL:HG11	1:E:569:ALA:CB	2.50	0.42
1:F:492:LEU:CD2	1:F:641:GLN:HG3	2.50	0.42
1:F:547:LEU:HD23	1:F:550:MET:HE3	2.01	0.42
1:F:575:PHE:HE2	1:F:577:ASP:HB2	1.83	0.42
1:F:633:ILE:O	1:F:638:ARG:HB3	2.20	0.42
1:G:207:GLY:O	4:G:801:ADP:N6	2.47	0.42
1:G:384:HIS:NE2	1:G:412:ALA:HB2	2.35	0.42
1:G:426:LYS:O	1:G:428:ASP:N	2.52	0.42
1:G:589:ASN:HB2	1:G:625:ARG:HH22	1.85	0.42
1:G:702:SER:CB	1:G:728:VAL:CG1	2.95	0.42
1:H:116:VAL:HG13	1:H:163:PHE:HB3	2.02	0.42
1:H:221:GLU:O	1:H:225:ARG:HB3	2.20	0.42
1:I:236:LYS:HA	1:I:236:LYS:HD3	1.81	0.42
1:J:38:VAL:HG13	1:J:72:LEU:HD13	2.02	0.42
1:J:317:HIS:NE2	1:K:317:HIS:HD2	2.17	0.42
1:J:394:VAL:HG12	1:J:449:MET:HA	2.02	0.42
1:K:27:ILE:H	1:K:82:ILE:HD13	1.85	0.42
1:K:30:GLU:O	1:K:83:ARG:HD2	2.20	0.42
1:L:38:VAL:HG13	1:L:72:LEU:HD13	2.02	0.42
1:L:119:ILE:HD12	1:L:189:ILE:O	2.20	0.42
1:L:315:LYS:HG3	1:L:315:LYS:O	2.20	0.42
1:L:749:ASP:OD1	1:L:749:ASP:O	2.38	0.42
1:A:437:ILE:HD12	1:A:442:MET:HB3	2.01	0.42
1:A:662:ARG:HG3	1:A:663:LYS:N	2.35	0.42
3:D:752:ILE:CG2	1:K:766:ARG:HH21	2.30	0.42
3:D:766:ARG:HD2	3:D:766:ARG:HA	1.93	0.42
1:F:407:VAL:N	1:F:410:ASP:HB2	2.30	0.42
1:G:27:ILE:H	1:G:82:ILE:HD13	1.85	0.42
1:G:58:LEU:HD12	1:G:58:LEU:N	2.35	0.42
1:G:317:HIS:HE1	1:H:317:HIS:O	2.03	0.42
1:G:356:ALA:O	1:G:362:ARG:NH1	2.41	0.42
1:H:203:TYR:N	1:H:261:GLU:OE2	2.53	0.42
1:I:614:LYS:O	1:I:615:LYS:HB2	2.19	0.42
1:I:749:ASP:OD1	1:I:749:ASP:O	2.38	0.42
1:J:30:GLU:O	1:J:83:ARG:HD2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:116:VAL:HG13	1:J:163:PHE:HB3	2.02	0.42
1:J:221:GLU:O	1:J:225:ARG:HB3	2.20	0.42
1:K:508:MET:HE1	1:L:696:LYS:HB2	2.01	0.42
1:B:484:ASP:O	1:B:487:ARG:HG2	2.20	0.41
1:B:654:VAL:CG2	1:B:676:ALA:HB3	2.49	0.41
2:C:313:ARG:O	2:C:314:GLU:HB2	2.20	0.41
3:D:345:ALA:HB2	3:D:363:PHE:CZ	2.55	0.41
1:E:229:LEU:O	1:E:233:ILE:HG22	2.20	0.41
1:E:484:ASP:O	1:E:487:ARG:HG2	2.20	0.41
1:E:654:VAL:CG2	1:E:676:ALA:HB3	2.49	0.41
1:E:764:GLN:OE1	1:F:742:PHE:HD2	2.01	0.41
1:E:768:PHE:CD1	1:F:740:MET:HE2	2.55	0.41
1:F:345:ALA:HB2	1:F:363:PHE:CZ	2.55	0.41
1:G:30:GLU:O	1:G:83:ARG:HD2	2.20	0.41
1:G:42:SER:HB3	1:G:79:ASP:HA	2.02	0.41
1:G:110:TYR:CD1	1:G:175:ILE:HG23	2.55	0.41
1:G:119:ILE:HD12	1:G:189:ILE:O	2.20	0.41
1:G:267:PHE:CE2	1:G:289:ALA:HB1	2.55	0.41
1:H:30:GLU:O	1:H:83:ARG:HD2	2.20	0.41
1:H:267:PHE:CE2	1:H:289:ALA:HB1	2.55	0.41
1:H:390:LEU:CD1	1:H:394:VAL:HG21	2.50	0.41
1:H:394:VAL:HG12	1:H:449:MET:HA	2.02	0.41
1:H:394:VAL:CG1	1:H:449:MET:HB2	2.50	0.41
1:H:773:PHE:CE2	1:I:736:PHE:HB3	2.53	0.41
1:I:390:LEU:CD1	1:I:394:VAL:HG21	2.50	0.41
1:J:390:LEU:CD1	1:J:394:VAL:HG21	2.50	0.41
1:J:568:GLN:OE1	1:J:568:GLN:HA	2.19	0.41
1:K:315:LYS:HG3	1:K:315:LYS:O	2.20	0.41
1:K:589:ASN:HB2	1:K:625:ARG:HH22	1.85	0.41
1:L:118:PRO:CB	1:L:188:PRO:HA	2.35	0.41
1:L:181:VAL:HG22	1:L:182:ILE:N	2.36	0.41
1:A:469:VAL:HG11	1:A:569:ALA:CB	2.50	0.41
1:B:642:LEU:HD22	1:B:762:LEU:HD11	2.01	0.41
2:C:390:LEU:HD21	2:C:396:LEU:HG	2.01	0.41
2:C:492:LEU:CD2	2:C:641:GLN:HG3	2.50	0.41
3:D:633:ILE:O	3:D:638:ARG:HB3	2.20	0.41
3:D:774:PRO:HD3	1:E:674:PHE:CG	2.55	0.41
1:F:484:ASP:O	1:F:487:ARG:HG2	2.20	0.41
1:F:654:VAL:CG2	1:F:676:ALA:HB3	2.49	0.41
1:G:60:LYS:O	1:G:100:ILE:HB	2.21	0.41
1:G:514:VAL:HG11	1:G:516:PHE:CE1	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:699:ILE:HG12	1:L:506:PHE:CD2	2.55	0.41
1:H:58:LEU:HD12	1:H:58:LEU:N	2.35	0.41
1:H:59:LEU:HD23	1:H:102:ILE:HA	2.02	0.41
1:I:30:GLU:O	1:I:83:ARG:HD2	2.20	0.41
1:I:149:GLY:HA2	1:I:164:LYS:CE	2.36	0.41
1:I:419:ALA:O	1:I:423:ILE:HG13	2.20	0.41
1:J:60:LYS:O	1:J:100:ILE:HB	2.20	0.41
1:J:153:LEU:HD23	1:J:155:ARG:NE	2.35	0.41
1:J:406:HIS:HE1	1:J:459:SER:CB	2.31	0.41
1:J:491:GLU:OE1	1:K:700:ARG:HD3	2.20	0.41
1:K:60:LYS:O	1:K:100:ILE:HB	2.20	0.41
1:K:257:ALA:O	1:K:261:GLU:HG3	2.21	0.41
1:K:514:VAL:HG11	1:K:516:PHE:CE1	2.54	0.41
1:K:602:ASN:ND2	1:L:548:LEU:HB3	2.35	0.41
1:L:203:TYR:N	1:L:261:GLU:OE2	2.53	0.41
1:L:491:GLU:O	1:L:495:TYR:HB2	2.19	0.41
1:A:229:LEU:O	1:A:233:ILE:HG22	2.20	0.41
1:A:378:LEU:HD21	1:A:382:GLN:NE2	2.35	0.41
1:A:484:ASP:O	1:A:487:ARG:HG2	2.20	0.41
1:A:771:PHE:HE1	1:B:678:MET:CG	2.33	0.41
1:B:229:LEU:O	1:B:233:ILE:HG22	2.20	0.41
3:D:229:LEU:O	3:D:233:ILE:HG22	2.20	0.41
1:E:678:MET:CE	1:E:678:MET:CA	2.96	0.41
1:F:336:LYS:O	1:F:337:GLN:CG	2.61	0.41
1:F:573:VAL:CG1	1:F:620:ILE:HD12	2.51	0.41
1:G:221:GLU:O	1:G:225:ARG:HB3	2.20	0.41
1:G:390:LEU:CD1	1:G:394:VAL:HG21	2.50	0.41
1:G:570:ALA:HA	1:G:571:PRO:C	2.41	0.41
1:H:419:ALA:O	1:H:423:ILE:HG13	2.20	0.41
1:H:491:GLU:O	1:H:495:TYR:HB2	2.19	0.41
1:I:181:VAL:HG22	1:I:182:ILE:N	2.36	0.41
1:I:360:PHE:CE1	1:J:410:ASP:OD1	2.73	0.41
1:I:570:ALA:HA	1:I:571:PRO:C	2.41	0.41
1:J:68:VAL:CG2	1:J:145:PRO:HB2	2.51	0.41
1:J:119:ILE:HD12	1:J:189:ILE:O	2.20	0.41
1:K:119:ILE:HD12	1:K:189:ILE:O	2.20	0.41
1:K:360:PHE:CE1	1:L:410:ASP:OD1	2.73	0.41
1:K:394:VAL:HG12	1:K:449:MET:HA	2.02	0.41
1:L:60:LYS:O	1:L:100:ILE:HB	2.20	0.41
1:L:140:LEU:HG	1:L:141:GLU:OE1	2.20	0.41
1:L:426:LYS:O	1:L:428:ASP:N	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:589:ASN:HB2	1:L:625:ARG:HH22	1.85	0.41
2:C:327:GLN:O	2:C:330:THR:OG1	2.34	0.41
2:C:336:LYS:HE2	2:C:338:ARG:HB2	2.01	0.41
3:D:302:PHE:HA	3:D:344:MET:O	2.21	0.41
3:D:426:LYS:HD3	3:D:427:MET:CB	2.51	0.41
3:D:642:LEU:HD22	3:D:762:LEU:HD11	2.01	0.41
1:E:426:LYS:HD3	1:E:427:MET:CB	2.51	0.41
1:E:708:ARG:CG	1:E:712:GLU:OE2	2.68	0.41
1:F:580:ASP:OD2	1:F:623:THR:OG1	2.27	0.41
1:H:384:HIS:NE2	1:H:412:ALA:HB2	2.34	0.41
1:I:93:ARG:HG3	1:I:93:ARG:HH11	1.85	0.41
1:I:116:VAL:HG13	1:I:163:PHE:HB3	2.02	0.41
1:J:108:VAL:HG22	1:J:175:ILE:HG22	2.03	0.41
1:J:109:LYS:HE2	1:J:109:LYS:HB2	1.88	0.41
1:J:110:TYR:CD1	1:J:175:ILE:HG23	2.55	0.41
1:K:140:LEU:HG	1:K:141:GLU:OE1	2.20	0.41
1:K:314:GLU:C	1:K:316:THR:N	2.74	0.41
1:L:42:SER:HB3	1:L:79:ASP:HA	2.02	0.41
1:A:283:GLU:OE1	1:A:327:GLN:HB3	2.20	0.41
1:A:345:ALA:HB2	1:A:363:PHE:CZ	2.55	0.41
1:A:573:VAL:CG1	1:A:620:ILE:HD12	2.51	0.41
1:A:633:ILE:O	1:A:638:ARG:HB3	2.20	0.41
1:B:216:ILE:O	1:B:219:MET:HB2	2.21	0.41
1:B:469:VAL:HG11	1:B:569:ALA:CB	2.50	0.41
2:C:426:LYS:HD3	2:C:427:MET:CB	2.51	0.41
2:C:484:ASP:O	2:C:487:ARG:HG2	2.20	0.41
2:C:582:ILE:HG21	2:C:598:ASP:OD2	2.21	0.41
1:G:93:ARG:HH11	1:G:93:ARG:HG3	1.85	0.41
1:G:159:ARG:N	1:G:387:ASN:HB3	2.36	0.41
1:G:212:GLN:OE1	1:G:212:GLN:N	2.54	0.41
1:G:605:LEU:HA	1:G:608:MET:HE2	2.02	0.41
1:G:749:ASP:OD1	1:G:749:ASP:O	2.38	0.41
1:H:60:LYS:O	1:H:100:ILE:HB	2.20	0.41
1:H:486:LYS:HE2	1:H:490:GLN:OE1	2.20	0.41
1:H:517:TYR:HB2	1:H:626:PRO:CG	2.48	0.41
1:I:58:LEU:N	1:I:58:LEU:HD12	2.35	0.41
1:I:68:VAL:CG2	1:I:145:PRO:HB2	2.51	0.41
1:I:119:ILE:HD12	1:I:189:ILE:O	2.20	0.41
1:I:267:PHE:CE2	1:I:289:ALA:HB1	2.55	0.41
1:I:364:ASP:N	1:I:364:ASP:OD1	2.42	0.41
1:I:674:PHE:HA	1:I:677:LYS:HG2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:138:TYR:OH	1:J:155:ARG:O	2.26	0.41
1:J:419:ALA:O	1:J:423:ILE:HG13	2.20	0.41
1:J:493:VAL:HG12	1:J:535:CYS:SG	2.61	0.41
1:K:222:LEU:HD21	1:L:424:ARG:CG	2.49	0.41
1:L:58:LEU:HD12	1:L:58:LEU:N	2.35	0.41
1:L:93:ARG:HH11	1:L:93:ARG:HG3	1.85	0.41
1:L:95:ARG:HD2	1:L:225:ARG:NH1	2.33	0.41
1:L:267:PHE:CE2	1:L:289:ALA:HB1	2.55	0.41
1:A:497:VAL:CG1	5:A:802:Y6Y:C16	2.99	0.41
1:B:283:GLU:OE1	1:B:327:GLN:HB3	2.20	0.41
1:B:313:ARG:O	1:B:314:GLU:HB2	2.20	0.41
1:B:497:VAL:CG1	5:B:802:Y6Y:C16	2.99	0.41
1:B:633:ILE:O	1:B:638:ARG:HB3	2.20	0.41
2:C:229:LEU:O	2:C:233:ILE:HG22	2.20	0.41
3:D:560:ARG:NH1	1:E:465:ARG:HD3	2.35	0.41
1:E:547:LEU:HD23	1:E:550:MET:HE3	2.01	0.41
1:E:573:VAL:CG1	1:E:620:ILE:HD12	2.51	0.41
1:F:216:ILE:O	1:F:219:MET:HB2	2.21	0.41
1:F:229:LEU:O	1:F:233:ILE:HG22	2.20	0.41
1:F:283:GLU:OE1	1:F:327:GLN:HB3	2.20	0.41
1:F:469:VAL:HG11	1:F:569:ALA:CB	2.50	0.41
1:G:95:ARG:HD2	1:G:225:ARG:NH1	2.33	0.41
1:G:257:ALA:O	1:G:261:GLU:HG3	2.21	0.41
1:G:496:PRO:HB2	5:G:802:Y6Y:C23	2.51	0.41
1:H:110:TYR:CD1	1:H:175:ILE:HG23	2.55	0.41
1:I:110:TYR:CD1	1:I:175:ILE:HG23	2.55	0.41
1:I:493:VAL:HG12	1:I:535:CYS:SG	2.61	0.41
1:J:93:ARG:HH11	1:J:93:ARG:HG3	1.86	0.41
1:J:267:PHE:CE2	1:J:289:ALA:HB1	2.55	0.41
1:K:389:LYS:NZ	1:K:443:ASN:ND2	2.69	0.41
1:L:153:LEU:HD23	1:L:155:ARG:NE	2.35	0.41
1:L:159:ARG:N	1:L:387:ASN:HB3	2.36	0.41
1:L:257:ALA:O	1:L:261:GLU:HG3	2.21	0.41
1:L:394:VAL:HG12	1:L:449:MET:HA	2.02	0.41
1:A:313:ARG:O	1:A:314:GLU:HB2	2.20	0.41
1:A:642:LEU:HD22	1:A:762:LEU:HD11	2.01	0.41
1:B:225:ARG:HG3	1:B:226:HIS:ND1	2.36	0.41
1:B:582:ILE:HG21	1:B:598:ASP:OD2	2.21	0.41
1:B:601:ILE:CG2	1:B:633:ILE:HD11	2.48	0.41
2:C:225:ARG:HG3	2:C:226:HIS:ND1	2.36	0.41
2:C:283:GLU:OE1	2:C:327:GLN:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:312:LYS:NZ	2:C:317:HIS:O	2.37	0.41
2:C:345:ALA:HB2	2:C:363:PHE:CZ	2.55	0.41
2:C:633:ILE:O	2:C:638:ARG:HB3	2.20	0.41
2:C:642:LEU:CD2	2:C:762:LEU:HD11	2.51	0.41
3:D:283:GLU:OE1	3:D:327:GLN:HB3	2.20	0.41
3:D:556:GLU:N	3:D:556:GLU:CD	2.74	0.41
3:D:642:LEU:CD2	3:D:762:LEU:HD11	2.51	0.41
1:E:283:GLU:OE1	1:E:327:GLN:HB3	2.20	0.41
1:E:302:PHE:HA	1:E:344:MET:O	2.21	0.41
1:G:115:HIS:HD2	1:G:183:HIS:HB3	1.86	0.41
1:G:181:VAL:HG22	1:G:182:ILE:N	2.36	0.41
1:G:493:VAL:HG12	1:G:535:CYS:SG	2.61	0.41
1:H:651:LYS:H	1:H:651:LYS:CD	2.33	0.41
1:I:158:MET:HG3	1:I:388:MET:HA	2.03	0.41
1:I:244:TYR:OH	1:I:568:GLN:NE2	2.53	0.41
1:I:638:ARG:O	1:I:640:ASP:N	2.54	0.41
1:J:58:LEU:HD12	1:J:58:LEU:N	2.35	0.41
1:J:140:LEU:HG	1:J:141:GLU:OE1	2.20	0.41
1:J:257:ALA:O	1:J:261:GLU:HG3	2.21	0.41
1:J:389:LYS:NZ	1:J:443:ASN:ND2	2.69	0.41
1:J:635:ARG:HB2	1:J:638:ARG:HH11	1.85	0.41
1:K:115:HIS:HD2	1:K:183:HIS:HB3	1.86	0.41
1:K:203:TYR:N	1:K:261:GLU:OE2	2.53	0.41
1:K:267:PHE:CE2	1:K:289:ALA:HB1	2.55	0.41
1:K:635:ARG:HB2	1:K:638:ARG:HH11	1.86	0.41
1:L:26:LEU:HD12	1:L:82:ILE:CD1	2.46	0.41
1:L:115:HIS:HD2	1:L:183:HIS:HB3	1.86	0.41
1:L:180:THR:O	1:L:180:THR:HG23	2.20	0.41
1:L:314:GLU:C	1:L:316:THR:N	2.74	0.41
1:B:302:PHE:HA	1:B:344:MET:O	2.21	0.41
1:B:438:ASP:HB3	1:B:440:GLU:OE1	2.21	0.41
1:B:573:VAL:CG1	1:B:620:ILE:HD12	2.51	0.41
1:B:642:LEU:CD2	1:B:762:LEU:HD11	2.51	0.41
2:C:274:ILE:HG13	2:C:275:MET:N	2.36	0.41
2:C:497:VAL:CG1	5:C:802:Y6Y:C16	2.99	0.41
2:C:642:LEU:HD22	2:C:762:LEU:HD11	2.01	0.41
3:D:438:ASP:HB3	3:D:440:GLU:OE1	2.21	0.41
1:E:310:ALA:HA	1:E:325:VAL:CG2	2.48	0.41
1:E:476:TRP:CZ3	1:E:486:LYS:HG3	2.56	0.41
1:E:642:LEU:CD2	1:E:762:LEU:HD11	2.51	0.41
1:F:270:ASN:HB3	1:F:273:GLU:CB	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:116:VAL:HG13	1:G:163:PHE:HB3	2.02	0.41
1:G:140:LEU:HG	1:G:141:GLU:OE1	2.20	0.41
1:G:203:TYR:N	1:G:261:GLU:OE2	2.53	0.41
1:G:389:LYS:NZ	1:G:443:ASN:ND2	2.69	0.41
1:H:389:LYS:NZ	1:H:443:ASN:ND2	2.69	0.41
1:I:38:VAL:HG13	1:I:72:LEU:HD13	2.02	0.41
1:I:317:HIS:O	1:I:318:GLY:C	2.59	0.41
1:I:517:TYR:HB2	1:I:626:PRO:CG	2.48	0.41
1:I:651:LYS:H	1:I:651:LYS:CD	2.33	0.41
1:I:710:GLU:CD	1:I:713:ARG:HH21	2.23	0.41
1:J:180:THR:HG23	1:J:180:THR:O	2.20	0.41
1:J:212:GLN:OE1	1:J:212:GLN:N	2.54	0.41
1:J:230:PHE:HZ	1:K:420:LEU:HD11	1.85	0.41
1:J:638:ARG:O	1:J:640:ASP:N	2.54	0.41
1:J:749:ASP:O	1:J:749:ASP:OD1	2.38	0.41
1:K:172:PRO:HG2	1:K:173:TYR:CD1	2.54	0.41
1:K:181:VAL:HG22	1:K:182:ILE:N	2.36	0.41
1:K:390:LEU:CD1	1:K:394:VAL:HG21	2.50	0.41
1:K:575:PHE:HA	1:K:620:ILE:O	2.21	0.41
1:L:172:PRO:HG2	1:L:173:TYR:CD1	2.54	0.41
1:L:575:PHE:HA	1:L:620:ILE:O	2.21	0.41
1:A:216:ILE:O	1:A:219:MET:HB2	2.21	0.41
1:A:302:PHE:HA	1:A:344:MET:O	2.21	0.41
1:A:547:LEU:HD23	1:A:550:MET:HE3	2.02	0.41
1:B:273:GLU:O	1:B:277:LYS:HG2	2.21	0.41
1:B:336:LYS:O	1:B:337:GLN:CG	2.62	0.41
1:B:390:LEU:HD21	1:B:396:LEU:HG	2.01	0.41
2:C:216:ILE:HD11	2:C:243:LEU:HD22	2.01	0.41
2:C:216:ILE:O	2:C:219:MET:HB2	2.21	0.41
2:C:249:THR:O	2:C:249:THR:CG2	2.69	0.41
2:C:302:PHE:HA	2:C:344:MET:O	2.21	0.41
2:C:438:ASP:HB3	2:C:440:GLU:OE1	2.21	0.41
2:C:476:TRP:CZ3	2:C:486:LYS:HG3	2.56	0.41
2:C:547:LEU:HD23	2:C:550:MET:HE3	2.01	0.41
2:C:573:VAL:CG1	2:C:620:ILE:HD12	2.51	0.41
2:C:601:ILE:CG2	2:C:633:ILE:HD11	2.48	0.41
2:C:773:PHE:CZ	3:D:670:VAL:HG23	2.56	0.41
3:D:274:ILE:HG13	3:D:275:MET:N	2.36	0.41
3:D:573:VAL:CG1	3:D:620:ILE:HD12	2.51	0.41
3:D:601:ILE:CG2	3:D:633:ILE:HD11	2.48	0.41
1:E:216:ILE:O	1:E:219:MET:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:249:THR:CG2	1:E:369:ILE:HG22	2.51	0.41
1:E:273:GLU:O	1:E:277:LYS:HG2	2.21	0.41
1:F:426:LYS:HD3	1:F:427:MET:CB	2.51	0.41
1:F:497:VAL:CG1	5:F:802:Y6Y:C16	2.99	0.41
1:F:642:LEU:CD2	1:F:762:LEU:HD11	2.51	0.41
1:F:720:MET:O	1:F:720:MET:HG2	2.21	0.41
1:G:38:VAL:HG13	1:G:72:LEU:HD13	2.02	0.41
1:G:158:MET:HG3	1:G:388:MET:HA	2.03	0.41
1:G:284:SER:HA	1:G:287:ARG:NH2	2.36	0.41
1:G:314:GLU:C	1:G:316:THR:N	2.74	0.41
1:G:394:VAL:HG12	1:G:449:MET:HA	2.02	0.41
1:G:394:VAL:CG1	1:G:449:MET:HB2	2.50	0.41
1:G:575:PHE:HA	1:G:620:ILE:O	2.21	0.41
1:G:651:LYS:H	1:G:651:LYS:CD	2.33	0.41
1:H:42:SER:HB3	1:H:79:ASP:HA	2.02	0.41
1:H:93:ARG:HH11	1:H:93:ARG:HG3	1.85	0.41
1:H:108:VAL:HG22	1:H:175:ILE:HG22	2.03	0.41
1:H:115:HIS:HD2	1:H:183:HIS:HB3	1.86	0.41
1:H:153:LEU:HD23	1:H:155:ARG:NE	2.35	0.41
1:H:158:MET:HG3	1:H:388:MET:HA	2.03	0.41
1:H:159:ARG:N	1:H:387:ASN:HB3	2.36	0.41
1:H:236:LYS:HD3	1:H:236:LYS:HA	1.80	0.41
1:H:496:PRO:HB2	5:H:802:Y6Y:C23	2.51	0.41
1:H:638:ARG:O	1:H:640:ASP:N	2.54	0.41
1:H:674:PHE:HA	1:H:677:LYS:HG2	2.03	0.41
1:I:26:LEU:CA	1:I:82:ILE:HD13	2.34	0.41
1:I:180:THR:HG23	1:I:180:THR:O	2.20	0.41
1:I:203:TYR:N	1:I:261:GLU:OE2	2.53	0.41
1:I:212:GLN:OE1	1:I:212:GLN:N	2.54	0.41
1:I:389:LYS:NZ	1:I:443:ASN:ND2	2.69	0.41
1:I:635:ARG:HB2	1:I:638:ARG:HH11	1.86	0.41
1:J:115:HIS:HD2	1:J:183:HIS:HB3	1.86	0.41
1:J:203:TYR:N	1:J:261:GLU:OE2	2.53	0.41
1:J:317:HIS:O	1:J:318:GLY:C	2.59	0.41
1:J:496:PRO:HB2	5:J:802:Y6Y:C23	2.51	0.41
1:J:575:PHE:HA	1:J:620:ILE:O	2.21	0.41
1:K:26:LEU:HD22	1:K:59:LEU:HD22	1.99	0.41
1:K:68:VAL:CG2	1:K:145:PRO:HB2	2.51	0.41
1:K:118:PRO:CB	1:K:188:PRO:HA	2.35	0.41
1:K:212:GLN:N	1:K:212:GLN:OE1	2.54	0.41
1:K:221:GLU:O	1:K:225:ARG:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:313:ARG:HB3	1:K:314:GLU:H	1.58	0.41
1:K:605:LEU:HD23	1:K:608:MET:HE3	2.00	0.41
1:K:764:GLN:CB	1:L:742:PHE:HA	2.50	0.41
1:L:26:LEU:CA	1:L:82:ILE:HD13	2.34	0.41
1:L:212:GLN:OE1	1:L:212:GLN:N	2.54	0.41
1:L:269:ILE:HD11	1:L:289:ALA:CB	2.48	0.41
1:L:389:LYS:NZ	1:L:443:ASN:ND2	2.69	0.41
1:L:570:ALA:HA	1:L:571:PRO:C	2.41	0.41
1:A:642:LEU:CD2	1:A:762:LEU:HD11	2.51	0.41
1:B:249:THR:O	1:B:249:THR:CG2	2.69	0.41
3:D:403:THR:CG2	3:D:411:LEU:HD21	2.48	0.41
3:D:421:GLN:OE1	3:D:454:TRP:CE3	2.74	0.41
3:D:582:ILE:HG21	3:D:598:ASP:OD2	2.21	0.41
1:E:244:TYR:O	1:E:368:ASP:HA	2.21	0.41
1:E:421:GLN:OE1	1:E:454:TRP:CE3	2.74	0.41
1:E:582:ILE:HG21	1:E:598:ASP:OD2	2.21	0.41
1:F:244:TYR:O	1:F:368:ASP:HA	2.21	0.41
1:F:249:THR:CG2	1:F:369:ILE:HG22	2.51	0.41
1:F:438:ASP:HB3	1:F:440:GLU:OE1	2.21	0.41
1:G:108:VAL:HG22	1:G:175:ILE:HG22	2.03	0.41
1:G:312:LYS:O	1:G:313:ARG:O	2.39	0.41
1:G:486:LYS:HE2	1:G:490:GLN:OE1	2.20	0.41
1:H:493:VAL:HG12	1:H:535:CYS:SG	2.61	0.41
1:I:153:LEU:HD23	1:I:155:ARG:NE	2.35	0.41
1:I:394:VAL:HG12	1:I:449:MET:HA	2.02	0.41
1:I:575:PHE:HA	1:I:620:ILE:O	2.21	0.41
1:J:59:LEU:HD23	1:J:102:ILE:HA	2.02	0.41
1:J:158:MET:HG3	1:J:388:MET:HA	2.03	0.41
1:K:58:LEU:N	1:K:58:LEU:HD12	2.35	0.41
1:K:207:GLY:O	4:K:801:ADP:N6	2.47	0.41
1:K:356:ALA:O	1:K:362:ARG:NH1	2.41	0.41
1:K:419:ALA:O	1:K:423:ILE:HG13	2.20	0.41
1:K:467:THR:CG2	1:K:565:LYS:HE2	2.51	0.41
1:L:312:LYS:O	1:L:313:ARG:O	2.39	0.41
1:L:379:GLU:HG2	1:L:383:ILE:HD11	2.03	0.41
1:L:496:PRO:HB2	5:L:802:Y6Y:C23	2.51	0.41
1:A:273:GLU:O	1:A:277:LYS:HG2	2.21	0.40
1:A:601:ILE:CG2	1:A:633:ILE:HD11	2.48	0.40
1:B:345:ALA:HB2	1:B:363:PHE:CZ	2.55	0.40
1:B:426:LYS:HD3	1:B:427:MET:CB	2.51	0.40
1:B:476:TRP:CZ3	1:B:486:LYS:HG3	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:720:MET:O	1:B:720:MET:HG2	2.21	0.40
2:C:246:PRO:HA	2:C:247:PRO:HD3	1.98	0.40
2:C:482:LEU:O	2:C:486:LYS:N	2.33	0.40
3:D:216:ILE:O	3:D:219:MET:HB2	2.21	0.40
3:D:225:ARG:HG3	3:D:226:HIS:ND1	2.36	0.40
3:D:244:TYR:O	3:D:368:ASP:HA	2.21	0.40
3:D:575:PHE:HE2	3:D:577:ASP:HB2	1.83	0.40
3:D:720:MET:O	3:D:720:MET:HG2	2.21	0.40
1:E:274:ILE:HG13	1:E:275:MET:N	2.36	0.40
1:F:582:ILE:HG21	1:F:598:ASP:OD2	2.21	0.40
1:G:60:LYS:HB2	1:G:101:SER:HB3	2.04	0.40
1:H:284:SER:HA	1:H:287:ARG:NH2	2.36	0.40
1:H:314:GLU:C	1:H:316:THR:N	2.74	0.40
1:H:575:PHE:HA	1:H:620:ILE:O	2.21	0.40
1:I:60:LYS:O	1:I:100:ILE:HB	2.20	0.40
1:I:157:GLY:N	1:I:389:LYS:NZ	2.57	0.40
1:J:159:ARG:N	1:J:387:ASN:HB3	2.36	0.40
1:K:42:SER:HB3	1:K:79:ASP:HA	2.02	0.40
1:K:93:ARG:HH11	1:K:93:ARG:HG3	1.86	0.40
1:K:159:ARG:N	1:K:387:ASN:HB3	2.36	0.40
1:L:244:TYR:OH	1:L:568:GLN:NE2	2.53	0.40
1:L:419:ALA:O	1:L:423:ILE:HG13	2.20	0.40
1:L:467:THR:CG2	1:L:565:LYS:HE2	2.51	0.40
1:L:493:VAL:HG12	1:L:535:CYS:SG	2.61	0.40
1:L:764:GLN:O	1:L:764:GLN:HG2	2.21	0.40
1:A:225:ARG:HG3	1:A:226:HIS:ND1	2.36	0.40
1:A:244:TYR:O	1:A:368:ASP:HA	2.21	0.40
1:A:482:LEU:HB3	1:A:485:VAL:HB	2.04	0.40
1:A:678:MET:CE	1:A:678:MET:CA	2.96	0.40
1:B:274:ILE:HG13	1:B:275:MET:N	2.36	0.40
2:C:543:LYS:HE2	2:C:543:LYS:HB2	1.45	0.40
3:D:249:THR:CG2	3:D:369:ILE:HG22	2.51	0.40
3:D:482:LEU:HB3	3:D:485:VAL:HB	2.04	0.40
3:D:724:GLU:O	3:D:725:ASP:HB2	2.22	0.40
1:E:505:LYS:NZ	1:F:729:PRO:O	2.53	0.40
1:F:302:PHE:HA	1:F:344:MET:O	2.21	0.40
1:F:421:GLN:OE1	1:F:454:TRP:CE3	2.74	0.40
1:G:26:LEU:HD12	1:G:82:ILE:CD1	2.46	0.40
1:G:317:HIS:O	1:G:318:GLY:C	2.59	0.40
1:G:419:ALA:O	1:G:423:ILE:HG13	2.20	0.40
1:H:92:LEU:O	1:H:93:ARG:HB2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:181:VAL:HG22	1:H:182:ILE:N	2.36	0.40
1:H:212:GLN:N	1:H:212:GLN:OE1	2.54	0.40
1:H:635:ARG:HB2	1:H:638:ARG:HH11	1.85	0.40
1:I:92:LEU:O	1:I:93:ARG:HB2	2.21	0.40
1:I:115:HIS:HD2	1:I:183:HIS:HB3	1.86	0.40
1:I:159:ARG:N	1:I:387:ASN:HB3	2.36	0.40
1:I:312:LYS:HB2	1:I:315:LYS:CG	2.51	0.40
1:I:472:PRO:HD3	1:I:539:PHE:CB	2.51	0.40
1:I:539:PHE:CE2	1:I:541:SER:HB2	2.57	0.40
1:J:570:ALA:HA	1:J:571:PRO:C	2.41	0.40
1:J:674:PHE:HA	1:J:677:LYS:HG2	2.03	0.40
1:K:92:LEU:O	1:K:93:ARG:HB2	2.21	0.40
1:K:312:LYS:O	1:K:313:ARG:O	2.39	0.40
1:K:317:HIS:O	1:K:318:GLY:C	2.59	0.40
1:K:360:PHE:HE1	1:L:410:ASP:OD1	2.04	0.40
1:K:379:GLU:HG2	1:K:383:ILE:HD11	2.03	0.40
1:K:570:ALA:HA	1:K:571:PRO:C	2.41	0.40
1:K:710:GLU:CD	1:K:713:ARG:HH21	2.23	0.40
1:L:317:HIS:O	1:L:318:GLY:C	2.59	0.40
1:L:486:LYS:HE2	1:L:490:GLN:OE1	2.20	0.40
1:A:760:GLN:HG2	1:H:760:GLN:NE2	2.36	0.40
3:D:476:TRP:CZ3	3:D:486:LYS:HG3	2.56	0.40
1:E:210:ARG:O	1:E:211:LYS:CG	2.62	0.40
1:E:508:MET:HE3	1:F:692:GLN:O	2.21	0.40
1:E:760:GLN:HG2	1:J:760:GLN:CD	2.42	0.40
1:F:482:LEU:HB3	1:F:485:VAL:HB	2.04	0.40
1:F:519:PRO:HA	1:F:520:PRO:HD3	1.96	0.40
1:G:92:LEU:O	1:G:93:ARG:HB2	2.21	0.40
1:G:635:ARG:HB2	1:G:638:ARG:HH11	1.85	0.40
1:H:26:LEU:HD12	1:H:82:ILE:CD1	2.46	0.40
1:H:68:VAL:CG2	1:H:145:PRO:HB2	2.51	0.40
1:H:119:ILE:HD12	1:H:189:ILE:O	2.20	0.40
1:H:157:GLY:N	1:H:389:LYS:NZ	2.57	0.40
1:H:180:THR:O	1:H:180:THR:HG23	2.20	0.40
1:H:312:LYS:HB2	1:H:315:LYS:CG	2.51	0.40
1:H:317:HIS:O	1:H:318:GLY:C	2.59	0.40
1:I:233:ILE:HD13	1:J:442:MET:SD	2.62	0.40
1:I:380:ILE:HD13	1:I:408:GLY:HA2	2.04	0.40
1:I:395:ASP:HB3	1:I:397:GLU:OE1	2.22	0.40
1:J:129:ASN:HB2	1:J:132:GLU:OE2	2.22	0.40
1:J:231:LYS:HD3	1:K:124:GLU:OE1	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:312:LYS:HB2	1:J:315:LYS:CG	2.51	0.40
1:J:395:ASP:HB3	1:J:397:GLU:OE1	2.22	0.40
1:K:157:GLY:N	1:K:389:LYS:NZ	2.57	0.40
1:K:312:LYS:HB2	1:K:315:LYS:CG	2.51	0.40
1:L:60:LYS:HB2	1:L:101:SER:HB3	2.04	0.40
1:L:472:PRO:HD3	1:L:539:PHE:CB	2.51	0.40
1:A:274:ILE:HG13	1:A:275:MET:N	2.36	0.40
1:A:310:ALA:HA	1:A:325:VAL:CG2	2.48	0.40
1:A:742:PHE:HD2	1:F:764:GLN:OE1	2.03	0.40
2:C:273:GLU:O	2:C:277:LYS:HG2	2.21	0.40
3:D:273:GLU:O	3:D:277:LYS:HG2	2.21	0.40
3:D:290:PHE:CD2	3:D:331:LEU:HD13	2.57	0.40
3:D:484:ASP:O	3:D:487:ARG:HG2	2.20	0.40
3:D:547:LEU:HD23	3:D:550:MET:HE3	2.02	0.40
1:F:274:ILE:HG13	1:F:275:MET:N	2.36	0.40
1:F:724:GLU:O	1:F:725:ASP:HB2	2.22	0.40
1:G:59:LEU:HD23	1:G:102:ILE:HA	2.02	0.40
1:G:402:GLU:OE1	1:L:615:LYS:HE3	2.21	0.40
1:G:472:PRO:HD3	1:G:539:PHE:CB	2.51	0.40
1:H:140:LEU:HG	1:H:141:GLU:OE1	2.20	0.40
1:H:257:ALA:O	1:H:261:GLU:HG3	2.21	0.40
1:H:329:LEU:HD23	1:H:329:LEU:HA	1.87	0.40
1:H:384:HIS:CE1	1:H:412:ALA:HB2	2.57	0.40
1:H:395:ASP:HB3	1:H:397:GLU:OE1	2.22	0.40
1:H:570:ALA:HA	1:H:571:PRO:C	2.41	0.40
1:H:605:LEU:HD23	1:H:608:MET:HE3	2.01	0.40
1:I:108:VAL:HG22	1:I:175:ILE:HG22	2.03	0.40
1:I:140:LEU:HG	1:I:141:GLU:OE1	2.20	0.40
1:I:257:ALA:O	1:I:261:GLU:HG3	2.21	0.40
1:I:379:GLU:HG2	1:I:383:ILE:HD11	2.02	0.40
1:I:496:PRO:HB2	5:I:802:Y6Y:C23	2.51	0.40
1:J:312:LYS:O	1:J:313:ARG:O	2.39	0.40
1:J:539:PHE:CE2	1:J:541:SER:HB2	2.57	0.40
1:K:38:VAL:HG13	1:K:72:LEU:HD13	2.02	0.40
1:K:108:VAL:HG22	1:K:175:ILE:HG22	2.03	0.40
1:K:129:ASN:HB2	1:K:132:GLU:OE2	2.22	0.40
1:K:230:PHE:HA	1:K:233:ILE:HG22	2.04	0.40
1:K:496:PRO:HB2	5:K:802:Y6Y:C23	2.51	0.40
1:K:638:ARG:O	1:K:640:ASP:N	2.54	0.40
1:L:108:VAL:HG22	1:L:175:ILE:HG22	2.03	0.40
1:L:221:GLU:O	1:L:225:ARG:HB3	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:390:LEU:CD1	1:L:394:VAL:HG21	2.50	0.40
1:L:607:GLU:O	1:L:611:MET:N	2.55	0.40
1:A:249:THR:CG2	1:A:369:ILE:HG22	2.51	0.40
1:A:582:ILE:HG21	1:A:598:ASP:OD2	2.21	0.40
1:A:706:GLU:HG3	1:F:502:LYS:HE2	2.03	0.40
2:C:421:GLN:OE1	2:C:454:TRP:CE3	2.74	0.40
3:D:249:THR:O	3:D:249:THR:CG2	2.69	0.40
1:E:482:LEU:HB3	1:E:485:VAL:HB	2.04	0.40
1:E:556:GLU:N	1:E:556:GLU:CD	2.74	0.40
1:F:208:GLY:O	1:F:376:GLY:HA3	2.22	0.40
1:F:216:ILE:HD11	1:F:243:LEU:HD22	2.01	0.40
1:F:219:MET:CG	1:F:365:ARG:NH2	2.81	0.40
1:G:434:ASP:OD1	1:G:437:ILE:HA	2.22	0.40
1:G:773:PHE:CB	1:H:733:ARG:NH2	2.84	0.40
1:H:380:ILE:HD13	1:H:408:GLY:HA2	2.04	0.40
1:H:539:PHE:CE2	1:H:541:SER:HB2	2.57	0.40
1:I:42:SER:HB3	1:I:79:ASP:HA	2.02	0.40
1:I:113:ARG:N	1:I:180:THR:OG1	2.55	0.40
1:I:336:LYS:HD2	1:I:336:LYS:HA	1.98	0.40
1:I:384:HIS:CE1	1:I:412:ALA:HB2	2.57	0.40
1:I:467:THR:CG2	1:I:565:LYS:HE2	2.51	0.40
1:I:576:PHE:CB	1:I:579:LEU:HD13	2.42	0.40
1:J:113:ARG:N	1:J:180:THR:OG1	2.55	0.40
1:J:269:ILE:HD11	1:J:289:ALA:CB	2.48	0.40
1:J:323:ARG:HH21	1:K:278:LEU:CA	2.31	0.40
1:J:329:LEU:HA	1:J:329:LEU:HD23	1.87	0.40
1:J:651:LYS:H	1:J:651:LYS:CD	2.34	0.40
1:K:284:SER:HA	1:K:287:ARG:NH2	2.36	0.40
1:L:68:VAL:CG2	1:L:145:PRO:HB2	2.51	0.40
1:L:651:LYS:H	1:L:651:LYS:CD	2.33	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles [i](#)

### 5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	574/755 (76%)	543 (95%)	29 (5%)	2 (0%)	41	76
1	B	574/755 (76%)	544 (95%)	28 (5%)	2 (0%)	41	76
1	E	574/755 (76%)	544 (95%)	28 (5%)	2 (0%)	41	76
1	F	574/755 (76%)	542 (94%)	30 (5%)	2 (0%)	41	76
1	G	753/755 (100%)	707 (94%)	43 (6%)	3 (0%)	34	72
1	H	753/755 (100%)	707 (94%)	43 (6%)	3 (0%)	34	72
1	I	753/755 (100%)	707 (94%)	43 (6%)	3 (0%)	34	72
1	J	753/755 (100%)	707 (94%)	43 (6%)	3 (0%)	34	72
1	K	753/755 (100%)	707 (94%)	43 (6%)	3 (0%)	34	72
1	L	753/755 (100%)	707 (94%)	43 (6%)	3 (0%)	34	72
2	C	574/576 (100%)	543 (95%)	29 (5%)	2 (0%)	41	76
3	D	571/576 (99%)	540 (95%)	29 (5%)	2 (0%)	34	72
All	All	7959/8702 (92%)	7498 (94%)	431 (5%)	30 (0%)	38	72

All (30) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	463	ALA
1	B	463	ALA
2	C	463	ALA
3	D	463	ALA
1	E	463	ALA
1	F	463	ALA
1	G	313	ARG
1	G	314	GLU
1	H	313	ARG
1	H	314	GLU
1	I	313	ARG
1	I	314	GLU
1	J	313	ARG
1	J	314	GLU
1	K	313	ARG
1	K	314	GLU
1	L	313	ARG
1	L	314	GLU
1	G	319	GLU

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Mol	Chain	Res	Type
1	H	319	GLU
1	I	319	GLU
1	J	319	GLU
1	K	319	GLU
1	L	319	GLU
1	A	725	ASP
1	B	725	ASP
2	C	725	ASP
3	D	725	ASP
1	E	725	ASP
1	F	725	ASP

### 5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	480/644 (74%)	470 (98%)	10 (2%)	53	82
1	B	480/644 (74%)	471 (98%)	9 (2%)	57	84
1	E	480/644 (74%)	470 (98%)	10 (2%)	53	82
1	F	480/644 (74%)	470 (98%)	10 (2%)	53	82
1	G	644/644 (100%)	633 (98%)	11 (2%)	60	85
1	H	644/644 (100%)	633 (98%)	11 (2%)	60	85
1	I	644/644 (100%)	633 (98%)	11 (2%)	60	85
1	J	644/644 (100%)	633 (98%)	11 (2%)	60	85
1	K	644/644 (100%)	633 (98%)	11 (2%)	60	85
1	L	644/644 (100%)	633 (98%)	11 (2%)	60	85
2	C	480/480 (100%)	470 (98%)	10 (2%)	53	82
3	D	479/480 (100%)	469 (98%)	10 (2%)	53	82
All	All	6743/7400 (91%)	6618 (98%)	125 (2%)	59	84

All (125) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	221	GLU
1	A	262	THR
1	A	365	ARG
1	A	459	SER
1	A	543	LYS
1	A	678	MET
1	A	706	GLU
1	A	708	ARG
1	A	709	ARG
1	A	732	ARG
1	B	262	THR
1	B	365	ARG
1	B	459	SER
1	B	543	LYS
1	B	678	MET
1	B	706	GLU
1	B	708	ARG
1	B	709	ARG
1	B	732	ARG
2	C	221	GLU
2	C	262	THR
2	C	365	ARG
2	C	459	SER
2	C	543	LYS
2	C	678	MET
2	C	706	GLU
2	C	708	ARG
2	C	709	ARG
2	C	732	ARG
3	D	221	GLU
3	D	262	THR
3	D	365	ARG
3	D	459	SER
3	D	543	LYS
3	D	678	MET
3	D	706	GLU
3	D	708	ARG
3	D	709	ARG
3	D	732	ARG
1	E	221	GLU
1	E	262	THR
1	E	365	ARG
1	E	459	SER

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Mol	Chain	Res	Type
1	E	543	LYS
1	E	678	MET
1	E	706	GLU
1	E	708	ARG
1	E	709	ARG
1	E	732	ARG
1	F	221	GLU
1	F	262	THR
1	F	365	ARG
1	F	459	SER
1	F	543	LYS
1	F	678	MET
1	F	706	GLU
1	F	708	ARG
1	F	709	ARG
1	F	732	ARG
1	G	194	GLU
1	G	244	TYR
1	G	357	LEU
1	G	360	PHE
1	G	509	THR
1	G	669	ASP
1	G	706	GLU
1	G	738	GLU
1	G	741	ARG
1	G	753	ARG
1	G	766	ARG
1	H	194	GLU
1	H	244	TYR
1	H	357	LEU
1	H	360	PHE
1	H	509	THR
1	H	669	ASP
1	H	706	GLU
1	H	738	GLU
1	H	741	ARG
1	H	753	ARG
1	H	766	ARG
1	I	194	GLU
1	I	244	TYR
1	I	357	LEU
1	I	360	PHE

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Mol	Chain	Res	Type
1	I	509	THR
1	I	669	ASP
1	I	706	GLU
1	I	738	GLU
1	I	741	ARG
1	I	753	ARG
1	I	766	ARG
1	J	194	GLU
1	J	244	TYR
1	J	357	LEU
1	J	360	PHE
1	J	509	THR
1	J	669	ASP
1	J	706	GLU
1	J	738	GLU
1	J	741	ARG
1	J	753	ARG
1	J	766	ARG
1	K	194	GLU
1	K	244	TYR
1	K	357	LEU
1	K	360	PHE
1	K	509	THR
1	K	669	ASP
1	K	706	GLU
1	K	738	GLU
1	K	741	ARG
1	K	753	ARG
1	K	766	ARG
1	L	194	GLU
1	L	244	TYR
1	L	357	LEU
1	L	360	PHE
1	L	509	THR
1	L	669	ASP
1	L	706	GLU
1	L	738	GLU
1	L	741	ARG
1	L	753	ARG
1	L	766	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (19) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	260	ASN
1	G	317	HIS
1	G	443	ASN
1	G	602	ASN
1	H	317	HIS
1	H	443	ASN
1	H	602	ASN
1	I	317	HIS
1	I	443	ASN
1	I	602	ASN
1	J	317	HIS
1	J	443	ASN
1	J	602	ASN
1	K	317	HIS
1	K	443	ASN
1	K	602	ASN
1	L	317	HIS
1	L	443	ASN
1	L	602	ASN

### 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 monosaccharides in this entry.

## 5.6 Ligand geometry [i](#)

24 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. 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  $|Z| > 2$  is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# $ Z  > 2$	Counts	RMSZ	# $ Z  > 2$
4	ADP	F	801	-	24,29,29	4.36	10 (41%)	29,45,45	1.46	3 (10%)
4	ADP	A	801	-	24,29,29	4.37	10 (41%)	29,45,45	1.46	3 (10%)
4	ADP	I	801	-	24,29,29	4.33	10 (41%)	29,45,45	1.42	3 (10%)
5	Y6Y	D	802	-	37,40,40	6.17	27 (72%)	41,57,57	2.05	6 (14%)
4	ADP	D	801	-	24,29,29	4.36	10 (41%)	29,45,45	1.46	3 (10%)
5	Y6Y	J	802	-	37,40,40	5.94	25 (67%)	41,57,57	2.49	7 (17%)
5	Y6Y	I	802	-	37,40,40	5.94	25 (67%)	41,57,57	2.49	7 (17%)
4	ADP	G	801	-	24,29,29	4.33	10 (41%)	29,45,45	1.42	3 (10%)
5	Y6Y	L	802	-	37,40,40	5.94	25 (67%)	41,57,57	2.49	7 (17%)
4	ADP	E	801	-	24,29,29	4.36	10 (41%)	29,45,45	1.46	3 (10%)
4	ADP	H	801	-	24,29,29	4.33	10 (41%)	29,45,45	1.42	3 (10%)
5	Y6Y	H	802	-	37,40,40	5.94	25 (67%)	41,57,57	2.49	7 (17%)
4	ADP	J	801	-	24,29,29	4.33	10 (41%)	29,45,45	1.42	3 (10%)
5	Y6Y	G	802	-	37,40,40	5.94	25 (67%)	41,57,57	2.49	7 (17%)
4	ADP	B	801	-	24,29,29	4.35	10 (41%)	29,45,45	1.46	3 (10%)
5	Y6Y	F	802	-	37,40,40	6.17	27 (72%)	41,57,57	2.05	6 (14%)
5	Y6Y	B	802	-	37,40,40	6.17	27 (72%)	41,57,57	2.05	6 (14%)
4	ADP	L	801	-	24,29,29	4.34	10 (41%)	29,45,45	1.42	3 (10%)
5	Y6Y	C	802	-	37,40,40	6.17	27 (72%)	41,57,57	2.05	6 (14%)
4	ADP	K	801	-	24,29,29	4.33	10 (41%)	29,45,45	1.43	3 (10%)
5	Y6Y	E	802	-	37,40,40	6.17	27 (72%)	41,57,57	2.05	6 (14%)
5	Y6Y	K	802	-	37,40,40	5.94	25 (67%)	41,57,57	2.49	7 (17%)
5	Y6Y	A	802	-	37,40,40	6.17	27 (72%)	41,57,57	2.05	6 (14%)
4	ADP	C	801	-	24,29,29	4.35	10 (41%)	29,45,45	1.46	3 (10%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	ADP	F	801	-	-	5/12/32/32	0/3/3/3
4	ADP	A	801	-	-	5/12/32/32	0/3/3/3
4	ADP	I	801	-	-	3/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
5	Y6Y	D	802	-	-	13/19/30/30	0/5/5/5
4	ADP	D	801	-	-	5/12/32/32	0/3/3/3
5	Y6Y	J	802	-	-	11/19/30/30	0/5/5/5
5	Y6Y	I	802	-	-	11/19/30/30	0/5/5/5
4	ADP	G	801	-	-	3/12/32/32	0/3/3/3
5	Y6Y	L	802	-	-	11/19/30/30	0/5/5/5
4	ADP	E	801	-	-	5/12/32/32	0/3/3/3
4	ADP	H	801	-	-	3/12/32/32	0/3/3/3
5	Y6Y	H	802	-	-	11/19/30/30	0/5/5/5
4	ADP	J	801	-	-	3/12/32/32	0/3/3/3
5	Y6Y	G	802	-	-	11/19/30/30	0/5/5/5
4	ADP	B	801	-	-	5/12/32/32	0/3/3/3
5	Y6Y	F	802	-	-	13/19/30/30	0/5/5/5
5	Y6Y	B	802	-	-	13/19/30/30	0/5/5/5
4	ADP	L	801	-	-	3/12/32/32	0/3/3/3
5	Y6Y	C	802	-	-	13/19/30/30	0/5/5/5
4	ADP	K	801	-	-	3/12/32/32	0/3/3/3
5	Y6Y	E	802	-	-	13/19/30/30	0/5/5/5
5	Y6Y	K	802	-	-	11/19/30/30	0/5/5/5
5	Y6Y	A	802	-	-	13/19/30/30	0/5/5/5
4	ADP	C	801	-	-	5/12/32/32	0/3/3/3

All (432) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	K	802	Y6Y	C11-C10	11.50	1.56	1.38
5	G	802	Y6Y	C11-C10	11.47	1.56	1.38
5	H	802	Y6Y	C11-C10	11.46	1.56	1.38
5	J	802	Y6Y	C11-C10	11.46	1.56	1.38
5	L	802	Y6Y	C11-C10	11.45	1.56	1.38
5	I	802	Y6Y	C11-C10	11.44	1.56	1.38
5	A	802	Y6Y	C11-C10	11.27	1.56	1.38
5	B	802	Y6Y	C11-C10	11.26	1.56	1.38
5	F	802	Y6Y	C11-C10	11.25	1.56	1.38
5	D	802	Y6Y	C11-C10	11.25	1.56	1.38
5	E	802	Y6Y	C11-C10	11.25	1.56	1.38
5	C	802	Y6Y	C11-C10	11.24	1.56	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	D	802	Y6Y	C2-C1	11.13	1.55	1.39
5	F	802	Y6Y	C2-C1	11.11	1.55	1.39
5	A	802	Y6Y	C2-C1	11.10	1.55	1.39
5	B	802	Y6Y	C2-C1	11.07	1.55	1.39
5	E	802	Y6Y	C2-C1	11.07	1.55	1.39
5	C	802	Y6Y	C2-C1	11.07	1.55	1.39
5	E	802	Y6Y	C5-C6	10.60	1.56	1.40
5	A	802	Y6Y	C5-C6	10.59	1.56	1.40
5	D	802	Y6Y	C5-C6	10.59	1.56	1.40
5	B	802	Y6Y	C5-C6	10.58	1.56	1.40
5	F	802	Y6Y	C5-C6	10.55	1.56	1.40
5	C	802	Y6Y	C5-C6	10.55	1.56	1.40
5	G	802	Y6Y	C2-C1	10.51	1.55	1.39
5	I	802	Y6Y	C2-C1	10.51	1.55	1.39
5	J	802	Y6Y	C2-C1	10.48	1.54	1.39
5	H	802	Y6Y	C2-C1	10.46	1.54	1.39
5	K	802	Y6Y	C2-C1	10.46	1.54	1.39
4	F	801	ADP	C4-N3	10.45	1.50	1.35
4	A	801	ADP	C4-N3	10.44	1.50	1.35
5	L	802	Y6Y	C2-C1	10.43	1.54	1.39
4	E	801	ADP	C4-N3	10.40	1.50	1.35
5	H	802	Y6Y	C5-C6	10.38	1.56	1.40
5	I	802	Y6Y	C5-C6	10.38	1.56	1.40
5	G	802	Y6Y	C5-C6	10.38	1.56	1.40
5	J	802	Y6Y	C5-C6	10.37	1.56	1.40
4	C	801	ADP	C4-N3	10.36	1.49	1.35
4	D	801	ADP	C4-N3	10.36	1.49	1.35
4	B	801	ADP	C4-N3	10.35	1.49	1.35
5	L	802	Y6Y	C5-C6	10.35	1.56	1.40
5	K	802	Y6Y	C5-C6	10.32	1.56	1.40
4	L	801	ADP	C4-N3	10.23	1.49	1.35
4	I	801	ADP	C4-N3	10.22	1.49	1.35
4	J	801	ADP	C4-N3	10.21	1.49	1.35
4	K	801	ADP	C4-N3	10.21	1.49	1.35
4	G	801	ADP	C4-N3	10.18	1.49	1.35
4	H	801	ADP	C4-N3	10.17	1.49	1.35
5	C	802	Y6Y	C2-C3	9.39	1.55	1.38
5	E	802	Y6Y	C2-C3	9.38	1.55	1.38
5	F	802	Y6Y	C2-C3	9.37	1.55	1.38
5	B	802	Y6Y	C2-C3	9.36	1.55	1.38
5	D	802	Y6Y	C9-C8	9.36	1.55	1.38
4	C	801	ADP	C2-N3	9.34	1.47	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	A	802	Y6Y	C9-C8	9.34	1.55	1.38
5	F	802	Y6Y	C9-C8	9.34	1.55	1.38
5	D	802	Y6Y	C2-C3	9.33	1.55	1.38
5	B	802	Y6Y	C9-C8	9.32	1.55	1.38
5	C	802	Y6Y	C9-C8	9.32	1.55	1.38
4	E	801	ADP	C2-N3	9.32	1.47	1.32
5	A	802	Y6Y	C2-C3	9.32	1.55	1.38
5	E	802	Y6Y	C9-C8	9.32	1.55	1.38
4	F	801	ADP	C2-N3	9.32	1.47	1.32
4	D	801	ADP	C2-N3	9.30	1.47	1.32
4	B	801	ADP	C2-N3	9.29	1.47	1.32
4	A	801	ADP	C2-N3	9.29	1.47	1.32
5	B	802	Y6Y	C9-C10	9.18	1.53	1.38
5	C	802	Y6Y	C9-C10	9.17	1.53	1.38
5	D	802	Y6Y	C9-C10	9.16	1.53	1.38
5	A	802	Y6Y	C9-C10	9.15	1.53	1.38
5	E	802	Y6Y	C9-C10	9.15	1.53	1.38
4	G	801	ADP	C2-N3	9.13	1.46	1.32
5	F	802	Y6Y	C9-C10	9.12	1.53	1.38
4	K	801	ADP	C2-N3	9.11	1.46	1.32
4	J	801	ADP	C2-N3	9.11	1.46	1.32
4	H	801	ADP	C2-N3	9.11	1.46	1.32
4	I	801	ADP	C2-N3	9.10	1.46	1.32
4	L	801	ADP	C2-N3	9.10	1.46	1.32
5	L	802	Y6Y	C9-C10	9.05	1.53	1.38
5	J	802	Y6Y	C9-C10	9.04	1.53	1.38
5	I	802	Y6Y	C9-C10	9.03	1.53	1.38
5	G	802	Y6Y	C9-C10	9.03	1.53	1.38
5	H	802	Y6Y	C9-C10	9.03	1.53	1.38
5	K	802	Y6Y	C9-C10	8.96	1.52	1.38
5	K	802	Y6Y	C9-C8	8.92	1.55	1.38
5	H	802	Y6Y	C9-C8	8.90	1.55	1.38
5	I	802	Y6Y	C9-C8	8.90	1.54	1.38
5	G	802	Y6Y	C9-C8	8.89	1.54	1.38
5	L	802	Y6Y	C9-C8	8.89	1.54	1.38
5	J	802	Y6Y	C9-C8	8.88	1.54	1.38
5	L	802	Y6Y	C2-C3	8.87	1.54	1.38
5	H	802	Y6Y	C2-C3	8.86	1.54	1.38
5	I	802	Y6Y	C2-C3	8.85	1.54	1.38
5	K	802	Y6Y	C2-C3	8.83	1.54	1.38
5	G	802	Y6Y	C2-C3	8.82	1.54	1.38
5	C	802	Y6Y	C4-C5	8.82	1.54	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	802	Y6Y	C4-C5	8.82	1.54	1.38
5	F	802	Y6Y	C4-C5	8.81	1.54	1.38
5	J	802	Y6Y	C2-C3	8.80	1.54	1.38
5	A	802	Y6Y	C4-C5	8.80	1.54	1.38
5	E	802	Y6Y	C4-C5	8.77	1.54	1.38
5	D	802	Y6Y	C4-C5	8.77	1.54	1.38
4	L	801	ADP	C3'-C4'	-8.73	1.30	1.53
4	G	801	ADP	C3'-C4'	-8.73	1.30	1.53
4	H	801	ADP	C3'-C4'	-8.73	1.30	1.53
4	I	801	ADP	C3'-C4'	-8.72	1.30	1.53
4	J	801	ADP	C3'-C4'	-8.71	1.30	1.53
4	K	801	ADP	C3'-C4'	-8.71	1.30	1.53
4	A	801	ADP	C3'-C4'	-8.66	1.30	1.53
4	E	801	ADP	C3'-C4'	-8.65	1.30	1.53
4	D	801	ADP	C3'-C4'	-8.65	1.30	1.53
4	B	801	ADP	C3'-C4'	-8.64	1.30	1.53
4	C	801	ADP	C3'-C4'	-8.63	1.30	1.53
4	F	801	ADP	C3'-C4'	-8.63	1.30	1.53
5	I	802	Y6Y	C4-C5	8.19	1.53	1.38
5	F	802	Y6Y	C12-C11	8.19	1.53	1.38
5	K	802	Y6Y	C4-C5	8.19	1.53	1.38
5	L	802	Y6Y	C4-C5	8.18	1.53	1.38
5	H	802	Y6Y	C4-C5	8.17	1.53	1.38
5	D	802	Y6Y	C12-C11	8.17	1.53	1.38
5	J	802	Y6Y	C4-C5	8.16	1.53	1.38
5	L	802	Y6Y	C12-C11	8.16	1.53	1.38
5	I	802	Y6Y	C12-C11	8.15	1.53	1.38
5	A	802	Y6Y	C12-C11	8.15	1.53	1.38
5	H	802	Y6Y	C12-C11	8.15	1.53	1.38
5	J	802	Y6Y	C12-C11	8.15	1.53	1.38
5	C	802	Y6Y	C12-C11	8.14	1.53	1.38
5	B	802	Y6Y	C12-C11	8.13	1.53	1.38
5	G	802	Y6Y	C4-C5	8.13	1.53	1.38
5	E	802	Y6Y	C12-C11	8.13	1.53	1.38
5	K	802	Y6Y	C12-C11	8.12	1.53	1.38
5	G	802	Y6Y	C12-C11	8.11	1.53	1.38
5	C	802	Y6Y	C12-C7	7.82	1.56	1.39
5	A	802	Y6Y	C12-C7	7.81	1.56	1.39
5	E	802	Y6Y	C12-C7	7.80	1.56	1.39
5	F	802	Y6Y	C12-C7	7.79	1.55	1.39
5	B	802	Y6Y	C12-C7	7.79	1.55	1.39
5	D	802	Y6Y	C12-C7	7.79	1.55	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	I	802	Y6Y	C12-C7	7.67	1.55	1.39
5	K	802	Y6Y	C12-C7	7.66	1.55	1.39
5	G	802	Y6Y	C12-C7	7.66	1.55	1.39
5	J	802	Y6Y	C12-C7	7.64	1.55	1.39
5	H	802	Y6Y	C12-C7	7.64	1.55	1.39
5	L	802	Y6Y	C12-C7	7.63	1.55	1.39
4	L	801	ADP	O4'-C4'	7.60	1.62	1.45
4	G	801	ADP	O4'-C4'	7.59	1.62	1.45
4	H	801	ADP	O4'-C4'	7.58	1.61	1.45
4	I	801	ADP	O4'-C4'	7.58	1.61	1.45
4	K	801	ADP	O4'-C4'	7.58	1.61	1.45
4	J	801	ADP	O4'-C4'	7.57	1.61	1.45
4	D	801	ADP	O4'-C4'	7.42	1.61	1.45
5	J	802	Y6Y	C23-N3	7.40	1.50	1.34
4	A	801	ADP	O4'-C4'	7.40	1.61	1.45
4	B	801	ADP	O4'-C4'	7.40	1.61	1.45
4	F	801	ADP	O4'-C4'	7.39	1.61	1.45
5	I	802	Y6Y	C23-N3	7.39	1.50	1.34
5	K	802	Y6Y	C23-N3	7.39	1.50	1.34
5	H	802	Y6Y	C23-N3	7.38	1.50	1.34
4	C	801	ADP	O4'-C4'	7.38	1.61	1.45
4	E	801	ADP	O4'-C4'	7.38	1.61	1.45
5	L	802	Y6Y	C23-N3	7.37	1.50	1.34
5	E	802	Y6Y	C16-S1	7.35	1.84	1.75
5	E	802	Y6Y	C23-N3	7.35	1.50	1.34
5	A	802	Y6Y	C23-N3	7.34	1.50	1.34
5	F	802	Y6Y	C16-S1	7.33	1.84	1.75
5	C	802	Y6Y	C23-N3	7.33	1.50	1.34
5	B	802	Y6Y	C16-S1	7.33	1.84	1.75
5	B	802	Y6Y	C23-N3	7.33	1.50	1.34
5	C	802	Y6Y	C16-S1	7.33	1.84	1.75
5	G	802	Y6Y	C23-N3	7.32	1.50	1.34
5	B	802	Y6Y	C8-C7	7.32	1.54	1.39
5	D	802	Y6Y	C8-C7	7.32	1.54	1.39
5	E	802	Y6Y	C8-C7	7.32	1.54	1.39
5	F	802	Y6Y	C23-N3	7.32	1.50	1.34
5	D	802	Y6Y	C23-N3	7.31	1.50	1.34
5	D	802	Y6Y	C16-S1	7.30	1.84	1.75
5	G	802	Y6Y	C23-C22	7.29	1.54	1.40
5	A	802	Y6Y	C8-C7	7.29	1.54	1.39
5	A	802	Y6Y	C16-S1	7.29	1.84	1.75
5	C	802	Y6Y	C8-C7	7.28	1.54	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	I	802	Y6Y	C23-C22	7.27	1.54	1.40
5	F	802	Y6Y	C8-C7	7.27	1.54	1.39
5	K	802	Y6Y	C23-C22	7.27	1.54	1.40
5	J	802	Y6Y	C23-C22	7.25	1.54	1.40
5	D	802	Y6Y	C4-C3	7.24	1.53	1.38
5	C	802	Y6Y	C4-C3	7.24	1.53	1.38
5	H	802	Y6Y	C23-C22	7.22	1.54	1.40
5	L	802	Y6Y	C23-C22	7.22	1.54	1.40
5	A	802	Y6Y	C4-C3	7.21	1.53	1.38
5	E	802	Y6Y	C4-C3	7.20	1.53	1.38
5	D	802	Y6Y	C23-C22	7.17	1.54	1.40
5	A	802	Y6Y	C23-C22	7.17	1.54	1.40
5	F	802	Y6Y	C23-C22	7.17	1.54	1.40
5	F	802	Y6Y	C4-C3	7.16	1.53	1.38
5	C	802	Y6Y	C23-C22	7.15	1.54	1.40
5	E	802	Y6Y	C23-C22	7.15	1.54	1.40
5	B	802	Y6Y	C4-C3	7.15	1.53	1.38
5	B	802	Y6Y	C23-C22	7.14	1.54	1.40
4	A	801	ADP	O4'-C1'	-7.11	1.31	1.41
4	D	801	ADP	O4'-C1'	-7.09	1.31	1.41
4	F	801	ADP	O4'-C1'	-7.07	1.31	1.41
4	E	801	ADP	O4'-C1'	-7.06	1.31	1.41
4	C	801	ADP	O4'-C1'	-7.05	1.31	1.41
4	K	801	ADP	O4'-C1'	-7.03	1.31	1.41
4	H	801	ADP	O4'-C1'	-7.02	1.31	1.41
4	I	801	ADP	O4'-C1'	-7.02	1.31	1.41
4	J	801	ADP	O4'-C1'	-7.01	1.31	1.41
4	G	801	ADP	O4'-C1'	-7.01	1.31	1.41
4	L	801	ADP	O4'-C1'	-7.00	1.31	1.41
4	B	801	ADP	O4'-C1'	-7.00	1.31	1.41
5	L	802	Y6Y	C8-C7	6.97	1.54	1.39
5	J	802	Y6Y	C8-C7	6.95	1.54	1.39
5	H	802	Y6Y	C8-C7	6.94	1.54	1.39
5	I	802	Y6Y	C8-C7	6.94	1.54	1.39
5	G	802	Y6Y	C8-C7	6.94	1.54	1.39
5	K	802	Y6Y	C8-C7	6.91	1.54	1.39
5	G	802	Y6Y	C4-C3	6.73	1.52	1.38
5	J	802	Y6Y	C4-C3	6.71	1.52	1.38
5	L	802	Y6Y	C4-C3	6.71	1.52	1.38
5	K	802	Y6Y	C4-C3	6.69	1.52	1.38
5	H	802	Y6Y	C4-C3	6.66	1.52	1.38
5	I	802	Y6Y	C4-C3	6.64	1.52	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	L	802	Y6Y	C26-C22	6.32	1.50	1.38
5	J	802	Y6Y	C26-C22	6.31	1.50	1.38
5	G	802	Y6Y	C26-C22	6.31	1.50	1.38
5	C	802	Y6Y	C26-C22	6.30	1.50	1.38
5	I	802	Y6Y	C26-C22	6.30	1.50	1.38
5	D	802	Y6Y	C26-C22	6.30	1.50	1.38
5	K	802	Y6Y	C26-C22	6.30	1.50	1.38
5	E	802	Y6Y	C26-C22	6.30	1.50	1.38
5	B	802	Y6Y	C26-C22	6.29	1.50	1.38
5	H	802	Y6Y	C26-C22	6.29	1.50	1.38
5	F	802	Y6Y	C26-C22	6.27	1.50	1.38
5	A	802	Y6Y	C26-C22	6.25	1.50	1.38
5	D	802	Y6Y	C14-C15	6.11	1.58	1.50
5	F	802	Y6Y	C14-C15	6.11	1.58	1.50
5	C	802	Y6Y	C14-C15	6.11	1.58	1.50
5	B	802	Y6Y	C14-C15	6.07	1.58	1.50
5	A	802	Y6Y	C14-C15	6.06	1.58	1.50
5	E	802	Y6Y	C14-C15	6.05	1.58	1.50
5	L	802	Y6Y	C16-S1	5.93	1.82	1.75
5	E	802	Y6Y	C25-C26	5.93	1.51	1.38
5	H	802	Y6Y	C25-C26	5.91	1.51	1.38
5	A	802	Y6Y	C25-C26	5.91	1.51	1.38
5	K	802	Y6Y	C16-S1	5.90	1.82	1.75
5	B	802	Y6Y	C25-C26	5.90	1.51	1.38
5	L	802	Y6Y	C25-C26	5.90	1.51	1.38
5	F	802	Y6Y	C25-C26	5.89	1.51	1.38
5	C	802	Y6Y	C25-C26	5.89	1.51	1.38
5	D	802	Y6Y	C25-C26	5.89	1.51	1.38
5	J	802	Y6Y	C25-C26	5.88	1.51	1.38
5	G	802	Y6Y	C16-S1	5.87	1.82	1.75
5	K	802	Y6Y	C25-C26	5.86	1.51	1.38
5	I	802	Y6Y	C16-S1	5.85	1.82	1.75
5	J	802	Y6Y	C16-S1	5.85	1.82	1.75
5	B	802	Y6Y	C6-C1	5.85	1.51	1.40
5	G	802	Y6Y	C25-C26	5.84	1.51	1.38
5	C	802	Y6Y	C6-C1	5.83	1.51	1.40
5	J	802	Y6Y	C6-C1	5.82	1.51	1.40
5	A	802	Y6Y	C6-C1	5.82	1.51	1.40
5	F	802	Y6Y	C6-C1	5.82	1.51	1.40
5	K	802	Y6Y	C6-C1	5.82	1.51	1.40
5	E	802	Y6Y	C6-C1	5.82	1.51	1.40
5	H	802	Y6Y	C6-C1	5.81	1.51	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	I	802	Y6Y	C25-C26	5.81	1.51	1.38
5	H	802	Y6Y	C16-S1	5.81	1.82	1.75
5	L	802	Y6Y	C6-C1	5.79	1.51	1.40
5	D	802	Y6Y	C6-C1	5.78	1.51	1.40
5	G	802	Y6Y	C6-C1	5.78	1.51	1.40
5	I	802	Y6Y	C6-C1	5.77	1.51	1.40
4	B	801	ADP	C2-N1	5.76	1.44	1.33
4	A	801	ADP	C2-N1	5.75	1.44	1.33
5	F	802	Y6Y	C6-C7	5.75	1.59	1.49
4	D	801	ADP	C2-N1	5.74	1.44	1.33
5	C	802	Y6Y	C6-C7	5.74	1.59	1.49
4	E	801	ADP	C2-N1	5.73	1.44	1.33
5	B	802	Y6Y	C6-C7	5.72	1.59	1.49
4	F	801	ADP	C2-N1	5.72	1.44	1.33
4	C	801	ADP	C2-N1	5.72	1.44	1.33
5	E	802	Y6Y	C6-C7	5.72	1.59	1.49
5	D	802	Y6Y	C6-C7	5.71	1.59	1.49
5	D	802	Y6Y	C25-C24	5.68	1.54	1.37
5	A	802	Y6Y	C6-C7	5.68	1.59	1.49
5	F	802	Y6Y	C25-C24	5.67	1.54	1.37
4	J	801	ADP	C2-N1	5.65	1.44	1.33
5	C	802	Y6Y	C25-C24	5.64	1.54	1.37
4	H	801	ADP	C2-N1	5.64	1.44	1.33
5	B	802	Y6Y	C25-C24	5.64	1.54	1.37
4	K	801	ADP	C2-N1	5.64	1.44	1.33
5	A	802	Y6Y	C25-C24	5.64	1.54	1.37
4	L	801	ADP	C2-N1	5.63	1.44	1.33
5	I	802	Y6Y	C25-C24	5.63	1.54	1.37
5	E	802	Y6Y	C25-C24	5.62	1.54	1.37
5	G	802	Y6Y	C25-C24	5.62	1.54	1.37
4	I	801	ADP	C2-N1	5.62	1.44	1.33
5	J	802	Y6Y	C25-C24	5.62	1.54	1.37
5	K	802	Y6Y	C25-C24	5.62	1.54	1.37
5	L	802	Y6Y	C25-C24	5.62	1.54	1.37
5	H	802	Y6Y	C25-C24	5.61	1.54	1.37
4	G	801	ADP	C2-N1	5.61	1.44	1.33
5	J	802	Y6Y	C24-N3	5.56	1.50	1.33
5	K	802	Y6Y	C24-N3	5.56	1.50	1.33
5	L	802	Y6Y	C24-N3	5.56	1.50	1.33
5	G	802	Y6Y	C24-N3	5.55	1.50	1.33
5	I	802	Y6Y	C24-N3	5.53	1.50	1.33
5	H	802	Y6Y	C24-N3	5.53	1.50	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	802	Y6Y	C24-N3	5.53	1.50	1.33
5	F	802	Y6Y	C24-N3	5.53	1.50	1.33
5	A	802	Y6Y	C24-N3	5.52	1.50	1.33
5	D	802	Y6Y	C24-N3	5.51	1.50	1.33
5	E	802	Y6Y	C24-N3	5.51	1.49	1.33
5	C	802	Y6Y	C24-N3	5.51	1.49	1.33
5	H	802	Y6Y	C14-C15	5.12	1.57	1.50
5	G	802	Y6Y	C14-C15	5.11	1.57	1.50
5	K	802	Y6Y	C14-C15	5.09	1.57	1.50
5	L	802	Y6Y	C14-C15	5.08	1.57	1.50
5	G	802	Y6Y	C6-C7	5.07	1.58	1.49
5	L	802	Y6Y	C6-C7	5.06	1.58	1.49
5	I	802	Y6Y	C14-C15	5.05	1.57	1.50
5	J	802	Y6Y	C14-C15	5.05	1.57	1.50
5	K	802	Y6Y	C6-C7	5.03	1.58	1.49
5	I	802	Y6Y	C6-C7	5.01	1.58	1.49
5	H	802	Y6Y	C6-C7	5.00	1.58	1.49
5	J	802	Y6Y	C6-C7	4.98	1.58	1.49
5	C	802	Y6Y	C10-S	4.58	1.82	1.77
5	F	802	Y6Y	C10-S	4.57	1.82	1.77
5	A	802	Y6Y	C10-S	4.57	1.82	1.77
5	E	802	Y6Y	C10-S	4.56	1.82	1.77
5	B	802	Y6Y	C10-S	4.55	1.82	1.77
5	D	802	Y6Y	C10-S	4.52	1.82	1.77
5	C	802	Y6Y	C20-C21	-4.37	1.33	1.51
5	F	802	Y6Y	C20-C21	-4.37	1.33	1.51
5	E	802	Y6Y	C20-C21	-4.37	1.33	1.51
5	A	802	Y6Y	C20-C21	-4.36	1.33	1.51
5	B	802	Y6Y	C20-C21	-4.36	1.33	1.51
5	D	802	Y6Y	C20-C21	-4.35	1.33	1.51
5	H	802	Y6Y	C10-S	4.24	1.81	1.77
5	I	802	Y6Y	C10-S	4.20	1.81	1.77
5	H	802	Y6Y	C20-C21	-4.19	1.34	1.51
5	L	802	Y6Y	C20-C21	-4.19	1.34	1.51
5	J	802	Y6Y	C10-S	4.19	1.81	1.77
5	L	802	Y6Y	C10-S	4.18	1.81	1.77
5	K	802	Y6Y	C10-S	4.18	1.81	1.77
5	J	802	Y6Y	C20-C21	-4.18	1.34	1.51
5	K	802	Y6Y	C20-C21	-4.18	1.34	1.51
5	G	802	Y6Y	C10-S	4.18	1.81	1.77
5	I	802	Y6Y	C20-C21	-4.17	1.34	1.51
5	G	802	Y6Y	C20-C21	-4.15	1.34	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	802	Y6Y	C18-C17	-3.80	1.30	1.53
5	E	802	Y6Y	C18-C17	-3.80	1.30	1.53
5	F	802	Y6Y	C18-C17	-3.79	1.30	1.53
5	A	802	Y6Y	C18-C17	-3.78	1.30	1.53
5	C	802	Y6Y	C18-C17	-3.78	1.30	1.53
5	D	802	Y6Y	C18-C17	-3.78	1.30	1.53
5	K	802	Y6Y	C18-C17	-3.75	1.31	1.53
5	I	802	Y6Y	C18-C17	-3.75	1.31	1.53
5	J	802	Y6Y	C18-C17	-3.75	1.31	1.53
5	H	802	Y6Y	C18-C17	-3.75	1.31	1.53
5	L	802	Y6Y	C18-C17	-3.74	1.31	1.53
5	G	802	Y6Y	C18-C17	-3.74	1.31	1.53
4	E	801	ADP	C6-N6	3.23	1.45	1.34
4	F	801	ADP	C6-N6	3.22	1.45	1.34
4	D	801	ADP	C6-N6	3.22	1.45	1.34
4	A	801	ADP	C6-N6	3.22	1.45	1.34
4	G	801	ADP	C6-N6	3.21	1.45	1.34
4	J	801	ADP	C6-N6	3.21	1.45	1.34
4	B	801	ADP	C6-N6	3.21	1.45	1.34
4	I	801	ADP	C6-N6	3.21	1.45	1.34
4	C	801	ADP	C6-N6	3.21	1.45	1.34
4	H	801	ADP	C6-N6	3.19	1.45	1.34
4	K	801	ADP	C6-N6	3.18	1.45	1.34
4	L	801	ADP	C6-N6	3.18	1.45	1.34
4	F	801	ADP	O3'-C3'	3.01	1.50	1.43
4	B	801	ADP	O3'-C3'	3.01	1.50	1.43
4	C	801	ADP	O3'-C3'	3.00	1.50	1.43
4	E	801	ADP	O3'-C3'	3.00	1.50	1.43
4	A	801	ADP	O3'-C3'	2.99	1.50	1.43
4	D	801	ADP	O3'-C3'	2.98	1.50	1.43
4	L	801	ADP	O3'-C3'	2.96	1.49	1.43
4	K	801	ADP	O2'-C2'	-2.95	1.36	1.43
4	H	801	ADP	O3'-C3'	2.95	1.49	1.43
4	G	801	ADP	O3'-C3'	2.94	1.49	1.43
4	J	801	ADP	O3'-C3'	2.94	1.49	1.43
4	H	801	ADP	O2'-C2'	-2.94	1.36	1.43
4	K	801	ADP	O3'-C3'	2.93	1.49	1.43
4	J	801	ADP	O2'-C2'	-2.93	1.36	1.43
4	I	801	ADP	O3'-C3'	2.92	1.49	1.43
4	G	801	ADP	O2'-C2'	-2.91	1.36	1.43
4	L	801	ADP	O2'-C2'	-2.91	1.36	1.43
4	I	801	ADP	O2'-C2'	-2.89	1.36	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	F	801	ADP	O2'-C2'	-2.88	1.36	1.43
4	E	801	ADP	O2'-C2'	-2.87	1.36	1.43
4	D	801	ADP	O2'-C2'	-2.86	1.36	1.43
4	A	801	ADP	O2'-C2'	-2.86	1.36	1.43
4	C	801	ADP	O2'-C2'	-2.86	1.36	1.43
4	B	801	ADP	O2'-C2'	-2.84	1.36	1.43
4	K	801	ADP	C6-C5	2.76	1.53	1.43
4	E	801	ADP	C6-C5	2.75	1.53	1.43
4	L	801	ADP	C6-C5	2.75	1.53	1.43
4	H	801	ADP	C6-C5	2.75	1.53	1.43
4	C	801	ADP	C6-C5	2.75	1.53	1.43
4	G	801	ADP	C6-C5	2.74	1.53	1.43
4	I	801	ADP	C6-C5	2.73	1.53	1.43
4	D	801	ADP	C6-C5	2.73	1.53	1.43
4	F	801	ADP	C6-C5	2.73	1.53	1.43
4	J	801	ADP	C6-C5	2.73	1.53	1.43
4	A	801	ADP	C6-C5	2.72	1.53	1.43
4	B	801	ADP	C6-C5	2.72	1.53	1.43
5	F	802	Y6Y	O2-C3	2.57	1.43	1.37
5	D	802	Y6Y	O2-C3	2.56	1.43	1.37
5	B	802	Y6Y	O2-C3	2.53	1.43	1.37
5	C	802	Y6Y	O2-C3	2.51	1.43	1.37
5	A	802	Y6Y	O2-C3	2.51	1.43	1.37
5	E	802	Y6Y	O2-C3	2.49	1.43	1.37
5	I	802	Y6Y	C21-C17	2.34	1.67	1.53
5	L	802	Y6Y	C21-C17	2.34	1.67	1.53
5	K	802	Y6Y	C21-C17	2.33	1.67	1.53
5	H	802	Y6Y	C21-C17	2.33	1.67	1.53
5	J	802	Y6Y	C21-C17	2.33	1.67	1.53
5	G	802	Y6Y	C21-C17	2.32	1.67	1.53
5	D	802	Y6Y	C21-C17	2.24	1.66	1.53
5	F	802	Y6Y	C21-C17	2.24	1.66	1.53
5	B	802	Y6Y	C21-C17	2.24	1.66	1.53
5	C	802	Y6Y	C21-C17	2.24	1.66	1.53
5	E	802	Y6Y	C21-C17	2.24	1.66	1.53
5	A	802	Y6Y	C21-C17	2.24	1.66	1.53
5	F	802	Y6Y	C19-C18	2.22	1.61	1.51
5	A	802	Y6Y	C19-C18	2.21	1.61	1.51
5	D	802	Y6Y	C19-C18	2.21	1.61	1.51
5	E	802	Y6Y	C19-C18	2.21	1.61	1.51
5	C	802	Y6Y	C19-C18	2.20	1.60	1.51
5	B	802	Y6Y	C19-C18	2.19	1.60	1.51

All (114) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	J	802	Y6Y	O1-S-O	-11.24	98.57	117.92
5	I	802	Y6Y	O1-S-O	-11.23	98.58	117.92
5	G	802	Y6Y	O1-S-O	-11.23	98.58	117.92
5	H	802	Y6Y	O1-S-O	-11.22	98.60	117.92
5	K	802	Y6Y	O1-S-O	-11.22	98.60	117.92
5	L	802	Y6Y	O1-S-O	-11.21	98.62	117.92
5	E	802	Y6Y	O1-S-O	-9.42	101.70	117.92
5	D	802	Y6Y	O1-S-O	-9.41	101.72	117.92
5	C	802	Y6Y	O1-S-O	-9.40	101.72	117.92
5	A	802	Y6Y	O1-S-O	-9.39	101.75	117.92
5	F	802	Y6Y	O1-S-O	-9.38	101.76	117.92
5	B	802	Y6Y	O1-S-O	-9.37	101.78	117.92
5	G	802	Y6Y	C13-S-C10	6.47	112.22	104.58
5	I	802	Y6Y	C13-S-C10	6.46	112.21	104.58
5	K	802	Y6Y	C13-S-C10	6.45	112.20	104.58
5	J	802	Y6Y	C13-S-C10	6.45	112.20	104.58
5	H	802	Y6Y	C13-S-C10	6.44	112.19	104.58
5	L	802	Y6Y	C13-S-C10	6.44	112.19	104.58
4	C	801	ADP	N3-C2-N1	-5.64	119.86	128.68
4	K	801	ADP	N3-C2-N1	-5.63	119.88	128.68
4	J	801	ADP	N3-C2-N1	-5.63	119.88	128.68
4	E	801	ADP	N3-C2-N1	-5.62	119.89	128.68
4	L	801	ADP	N3-C2-N1	-5.62	119.89	128.68
4	H	801	ADP	N3-C2-N1	-5.61	119.90	128.68
4	A	801	ADP	N3-C2-N1	-5.61	119.91	128.68
4	G	801	ADP	N3-C2-N1	-5.61	119.91	128.68
4	B	801	ADP	N3-C2-N1	-5.61	119.91	128.68
4	I	801	ADP	N3-C2-N1	-5.61	119.92	128.68
4	D	801	ADP	N3-C2-N1	-5.60	119.92	128.68
4	F	801	ADP	N3-C2-N1	-5.60	119.93	128.68
5	J	802	Y6Y	O-S-C10	4.46	111.89	108.25
5	G	802	Y6Y	O-S-C10	4.46	111.89	108.25
5	I	802	Y6Y	O-S-C10	4.46	111.88	108.25
5	K	802	Y6Y	O-S-C10	4.45	111.88	108.25
5	H	802	Y6Y	O-S-C10	4.43	111.86	108.25
5	C	802	Y6Y	O1-S-C10	4.43	111.86	108.25
5	L	802	Y6Y	O-S-C10	4.42	111.85	108.25
5	F	802	Y6Y	O1-S-C10	4.39	111.82	108.25
5	D	802	Y6Y	O1-S-C10	4.38	111.82	108.25
5	B	802	Y6Y	O1-S-C10	4.38	111.81	108.25
5	A	802	Y6Y	O1-S-C10	4.35	111.79	108.25
5	E	802	Y6Y	O1-S-C10	4.34	111.78	108.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	I	802	Y6Y	O-S-C13	4.04	114.29	108.49
5	H	802	Y6Y	O-S-C13	4.01	114.26	108.49
5	J	802	Y6Y	O-S-C13	4.00	114.25	108.49
5	L	802	Y6Y	O-S-C13	4.00	114.24	108.49
5	G	802	Y6Y	O-S-C13	3.99	114.22	108.49
5	K	802	Y6Y	O-S-C13	3.98	114.22	108.49
5	A	802	Y6Y	O-S-C10	3.91	111.44	108.25
5	E	802	Y6Y	O-S-C10	3.91	111.43	108.25
5	B	802	Y6Y	O-S-C10	3.88	111.41	108.25
5	D	802	Y6Y	O-S-C10	3.88	111.41	108.25
5	F	802	Y6Y	O-S-C10	3.86	111.39	108.25
5	E	802	Y6Y	C13-S-C10	3.85	109.13	104.58
5	C	802	Y6Y	O-S-C10	3.85	111.39	108.25
5	D	802	Y6Y	C13-S-C10	3.84	109.12	104.58
5	F	802	Y6Y	C13-S-C10	3.84	109.12	104.58
5	A	802	Y6Y	C13-S-C10	3.83	109.11	104.58
5	C	802	Y6Y	C13-S-C10	3.83	109.11	104.58
5	B	802	Y6Y	C13-S-C10	3.82	109.09	104.58
4	F	801	ADP	C3'-C2'-C1'	2.80	105.20	100.98
4	F	801	ADP	PA-O3A-PB	-2.80	123.22	132.83
4	E	801	ADP	PA-O3A-PB	-2.80	123.22	132.83
4	D	801	ADP	PA-O3A-PB	-2.80	123.23	132.83
4	C	801	ADP	C3'-C2'-C1'	2.80	105.19	100.98
4	E	801	ADP	C3'-C2'-C1'	2.79	105.18	100.98
4	A	801	ADP	C3'-C2'-C1'	2.79	105.18	100.98
4	B	801	ADP	C3'-C2'-C1'	2.79	105.18	100.98
4	C	801	ADP	PA-O3A-PB	-2.79	123.26	132.83
4	A	801	ADP	PA-O3A-PB	-2.79	123.26	132.83
4	B	801	ADP	PA-O3A-PB	-2.79	123.27	132.83
4	D	801	ADP	C3'-C2'-C1'	2.77	105.14	100.98
4	I	801	ADP	C3'-C2'-C1'	2.75	105.12	100.98
4	I	801	ADP	PA-O3A-PB	-2.74	123.42	132.83
4	G	801	ADP	PA-O3A-PB	-2.74	123.43	132.83
4	L	801	ADP	C3'-C2'-C1'	2.73	105.09	100.98
4	J	801	ADP	PA-O3A-PB	-2.73	123.44	132.83
4	K	801	ADP	C3'-C2'-C1'	2.73	105.09	100.98
4	G	801	ADP	C3'-C2'-C1'	2.73	105.09	100.98
4	J	801	ADP	C3'-C2'-C1'	2.73	105.08	100.98
4	H	801	ADP	PA-O3A-PB	-2.73	123.47	132.83
4	K	801	ADP	PA-O3A-PB	-2.73	123.47	132.83
4	L	801	ADP	PA-O3A-PB	-2.73	123.47	132.83
4	H	801	ADP	C3'-C2'-C1'	2.72	105.08	100.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	L	802	Y6Y	C8-C7-C6	-2.57	116.75	120.91
5	I	802	Y6Y	C8-C7-C6	-2.56	116.77	120.91
5	H	802	Y6Y	C8-C7-C6	-2.56	116.77	120.91
5	G	802	Y6Y	C8-C7-C6	-2.55	116.78	120.91
5	J	802	Y6Y	C8-C7-C6	-2.54	116.79	120.91
5	K	802	Y6Y	C8-C7-C6	-2.53	116.82	120.91
5	J	802	Y6Y	C22-N2-C15	2.40	132.19	126.37
5	H	802	Y6Y	C22-N2-C15	2.40	132.19	126.37
5	G	802	Y6Y	C22-N2-C15	2.39	132.17	126.37
5	I	802	Y6Y	C22-N2-C15	2.38	132.16	126.37
5	L	802	Y6Y	C22-N2-C15	2.38	132.15	126.37
5	K	802	Y6Y	C22-N2-C15	2.36	132.10	126.37
5	C	802	Y6Y	O1-S-C13	2.28	111.77	108.49
5	F	802	Y6Y	O1-S-C13	2.26	111.75	108.49
5	D	802	Y6Y	O1-S-C13	2.25	111.73	108.49
5	B	802	Y6Y	O1-S-C13	2.25	111.73	108.49
5	E	802	Y6Y	O1-S-C13	2.25	111.73	108.49
5	A	802	Y6Y	O1-S-C13	2.25	111.72	108.49
5	I	802	Y6Y	C26-C22-N2	2.13	122.17	119.19
5	C	802	Y6Y	C26-C22-N2	2.12	122.16	119.19
5	K	802	Y6Y	C26-C22-N2	2.12	122.15	119.19
5	F	802	Y6Y	C26-C22-N2	2.11	122.15	119.19
5	D	802	Y6Y	C26-C22-N2	2.10	122.13	119.19
5	G	802	Y6Y	C26-C22-N2	2.10	122.13	119.19
5	A	802	Y6Y	C26-C22-N2	2.09	122.11	119.19
5	L	802	Y6Y	C26-C22-N2	2.09	122.11	119.19
5	J	802	Y6Y	C26-C22-N2	2.08	122.11	119.19
5	E	802	Y6Y	C26-C22-N2	2.08	122.10	119.19
5	B	802	Y6Y	C26-C22-N2	2.07	122.08	119.19
5	H	802	Y6Y	C26-C22-N2	2.06	122.08	119.19

There are no chirality outliers.

All (192) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	801	ADP	C5'-O5'-PA-O1A
4	A	801	ADP	O4'-C4'-C5'-O5'
4	B	801	ADP	C5'-O5'-PA-O1A
4	B	801	ADP	O4'-C4'-C5'-O5'
4	C	801	ADP	C5'-O5'-PA-O1A
4	C	801	ADP	O4'-C4'-C5'-O5'
4	D	801	ADP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
4	D	801	ADP	O4'-C4'-C5'-O5'
4	E	801	ADP	C5'-O5'-PA-O1A
4	E	801	ADP	O4'-C4'-C5'-O5'
4	F	801	ADP	C5'-O5'-PA-O1A
4	F	801	ADP	O4'-C4'-C5'-O5'
5	A	802	Y6Y	C18-C17-S1-C16
5	B	802	Y6Y	C18-C17-S1-C16
5	C	802	Y6Y	C18-C17-S1-C16
5	D	802	Y6Y	C18-C17-S1-C16
5	E	802	Y6Y	C18-C17-S1-C16
5	F	802	Y6Y	C18-C17-S1-C16
5	G	802	Y6Y	C18-C17-S1-C16
5	H	802	Y6Y	C18-C17-S1-C16
5	I	802	Y6Y	C18-C17-S1-C16
5	J	802	Y6Y	C18-C17-S1-C16
5	K	802	Y6Y	C18-C17-S1-C16
5	L	802	Y6Y	C18-C17-S1-C16
4	A	801	ADP	C3'-C4'-C5'-O5'
4	B	801	ADP	C3'-C4'-C5'-O5'
4	C	801	ADP	C3'-C4'-C5'-O5'
4	D	801	ADP	C3'-C4'-C5'-O5'
4	E	801	ADP	C3'-C4'-C5'-O5'
4	F	801	ADP	C3'-C4'-C5'-O5'
5	G	802	Y6Y	C4-C3-O2-C14
5	H	802	Y6Y	C4-C3-O2-C14
5	I	802	Y6Y	C4-C3-O2-C14
5	J	802	Y6Y	C4-C3-O2-C14
5	K	802	Y6Y	C4-C3-O2-C14
5	L	802	Y6Y	C4-C3-O2-C14
5	G	802	Y6Y	C2-C3-O2-C14
5	H	802	Y6Y	C2-C3-O2-C14
5	I	802	Y6Y	C2-C3-O2-C14
5	J	802	Y6Y	C2-C3-O2-C14
5	K	802	Y6Y	C2-C3-O2-C14
5	L	802	Y6Y	C2-C3-O2-C14
5	A	802	Y6Y	C9-C10-S-O
5	B	802	Y6Y	C9-C10-S-O
5	C	802	Y6Y	C9-C10-S-O
5	D	802	Y6Y	C9-C10-S-O
5	E	802	Y6Y	C9-C10-S-O
5	F	802	Y6Y	C9-C10-S-O
5	G	802	Y6Y	C11-C10-S-O

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Mol	Chain	Res	Type	Atoms
5	H	802	Y6Y	C11-C10-S-O
5	I	802	Y6Y	C11-C10-S-O
5	J	802	Y6Y	C11-C10-S-O
5	K	802	Y6Y	C11-C10-S-O
5	L	802	Y6Y	C11-C10-S-O
5	A	802	Y6Y	C11-C10-S-O
5	B	802	Y6Y	C11-C10-S-O
5	C	802	Y6Y	C11-C10-S-O
5	F	802	Y6Y	C11-C10-S-O
5	A	802	Y6Y	C9-C10-S-C13
5	B	802	Y6Y	C9-C10-S-C13
5	C	802	Y6Y	C9-C10-S-C13
5	D	802	Y6Y	C9-C10-S-C13
5	D	802	Y6Y	C11-C10-S-O
5	E	802	Y6Y	C9-C10-S-C13
5	E	802	Y6Y	C11-C10-S-O
5	F	802	Y6Y	C9-C10-S-C13
5	G	802	Y6Y	C9-C10-S-O
5	H	802	Y6Y	C9-C10-S-O
5	I	802	Y6Y	C9-C10-S-O
5	J	802	Y6Y	C9-C10-S-O
5	K	802	Y6Y	C9-C10-S-O
5	L	802	Y6Y	C9-C10-S-O
5	A	802	Y6Y	C11-C10-S-C13
5	B	802	Y6Y	C11-C10-S-C13
5	C	802	Y6Y	C11-C10-S-C13
5	D	802	Y6Y	C11-C10-S-C13
5	E	802	Y6Y	C11-C10-S-C13
5	F	802	Y6Y	C11-C10-S-C13
5	G	802	Y6Y	C11-C10-S-C13
5	H	802	Y6Y	C11-C10-S-C13
5	I	802	Y6Y	C11-C10-S-C13
5	J	802	Y6Y	C11-C10-S-C13
5	K	802	Y6Y	C11-C10-S-C13
5	L	802	Y6Y	C11-C10-S-C13
5	G	802	Y6Y	C9-C10-S-C13
5	H	802	Y6Y	C9-C10-S-C13
5	I	802	Y6Y	C9-C10-S-C13
5	J	802	Y6Y	C9-C10-S-C13
5	K	802	Y6Y	C9-C10-S-C13
5	L	802	Y6Y	C9-C10-S-C13
4	G	801	ADP	PB-O3A-PA-O2A

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Mol	Chain	Res	Type	Atoms
4	H	801	ADP	PB-O3A-PA-O2A
4	I	801	ADP	PB-O3A-PA-O2A
4	J	801	ADP	PB-O3A-PA-O2A
4	K	801	ADP	PB-O3A-PA-O2A
4	L	801	ADP	PB-O3A-PA-O2A
4	G	801	ADP	C5'-O5'-PA-O2A
4	H	801	ADP	C5'-O5'-PA-O2A
4	I	801	ADP	C5'-O5'-PA-O2A
4	J	801	ADP	C5'-O5'-PA-O2A
4	K	801	ADP	C5'-O5'-PA-O2A
4	L	801	ADP	C5'-O5'-PA-O2A
4	A	801	ADP	PB-O3A-PA-O1A
4	B	801	ADP	PB-O3A-PA-O1A
4	C	801	ADP	PB-O3A-PA-O1A
4	D	801	ADP	PB-O3A-PA-O1A
4	E	801	ADP	PB-O3A-PA-O1A
4	F	801	ADP	PB-O3A-PA-O1A
5	A	802	Y6Y	C4-C3-O2-C14
5	B	802	Y6Y	C4-C3-O2-C14
5	C	802	Y6Y	C4-C3-O2-C14
5	D	802	Y6Y	C4-C3-O2-C14
5	F	802	Y6Y	C4-C3-O2-C14
5	I	802	Y6Y	C1-C6-C7-C12
5	C	802	Y6Y	C1-C6-C7-C8
5	D	802	Y6Y	C1-C6-C7-C8
5	E	802	Y6Y	C4-C3-O2-C14
5	H	802	Y6Y	C1-C6-C7-C12
5	A	802	Y6Y	C1-C6-C7-C8
5	E	802	Y6Y	C1-C6-C7-C8
5	G	802	Y6Y	C1-C6-C7-C12
5	J	802	Y6Y	C1-C6-C7-C12
5	L	802	Y6Y	C1-C6-C7-C12
5	B	802	Y6Y	C1-C6-C7-C8
5	F	802	Y6Y	C1-C6-C7-C8
5	K	802	Y6Y	C1-C6-C7-C12
5	A	802	Y6Y	C2-C3-O2-C14
5	B	802	Y6Y	C2-C3-O2-C14
5	C	802	Y6Y	C2-C3-O2-C14
5	D	802	Y6Y	C2-C3-O2-C14
5	E	802	Y6Y	C2-C3-O2-C14
5	F	802	Y6Y	C2-C3-O2-C14
5	H	802	Y6Y	C1-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
5	G	802	Y6Y	C1-C6-C7-C8
5	I	802	Y6Y	C1-C6-C7-C8
5	J	802	Y6Y	C1-C6-C7-C8
5	K	802	Y6Y	C1-C6-C7-C8
5	L	802	Y6Y	C1-C6-C7-C8
5	A	802	Y6Y	C1-C6-C7-C12
5	B	802	Y6Y	C1-C6-C7-C12
5	F	802	Y6Y	C1-C6-C7-C12
5	D	802	Y6Y	C1-C6-C7-C12
5	E	802	Y6Y	C1-C6-C7-C12
5	C	802	Y6Y	C1-C6-C7-C12
5	G	802	Y6Y	C5-C6-C7-C12
5	H	802	Y6Y	C5-C6-C7-C12
5	J	802	Y6Y	C5-C6-C7-C12
5	I	802	Y6Y	C5-C6-C7-C12
5	L	802	Y6Y	C5-C6-C7-C12
5	C	802	Y6Y	C5-C6-C7-C8
5	K	802	Y6Y	C5-C6-C7-C12
5	A	802	Y6Y	C5-C6-C7-C8
5	B	802	Y6Y	C5-C6-C7-C8
5	F	802	Y6Y	C5-C6-C7-C8
5	D	802	Y6Y	C5-C6-C7-C8
5	E	802	Y6Y	C5-C6-C7-C8
5	A	802	Y6Y	C23-C22-N2-C16
5	B	802	Y6Y	C23-C22-N2-C16
5	C	802	Y6Y	C23-C22-N2-C16
5	D	802	Y6Y	C23-C22-N2-C16
5	E	802	Y6Y	C23-C22-N2-C16
5	F	802	Y6Y	C23-C22-N2-C16
5	K	802	Y6Y	C5-C6-C7-C8
5	L	802	Y6Y	C5-C6-C7-C8
5	G	802	Y6Y	C5-C6-C7-C8
5	J	802	Y6Y	C5-C6-C7-C8
5	H	802	Y6Y	C5-C6-C7-C8
5	I	802	Y6Y	C5-C6-C7-C8
4	A	801	ADP	C5'-O5'-PA-O3A
4	B	801	ADP	C5'-O5'-PA-O3A
4	C	801	ADP	C5'-O5'-PA-O3A
4	D	801	ADP	C5'-O5'-PA-O3A
4	E	801	ADP	C5'-O5'-PA-O3A
4	F	801	ADP	C5'-O5'-PA-O3A
4	G	801	ADP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
4	H	801	ADP	C5'-O5'-PA-O3A
4	I	801	ADP	C5'-O5'-PA-O3A
4	J	801	ADP	C5'-O5'-PA-O3A
4	K	801	ADP	C5'-O5'-PA-O3A
4	L	801	ADP	C5'-O5'-PA-O3A
5	A	802	Y6Y	C21-C17-S1-C16
5	B	802	Y6Y	C21-C17-S1-C16
5	C	802	Y6Y	C21-C17-S1-C16
5	D	802	Y6Y	C21-C17-S1-C16
5	E	802	Y6Y	C21-C17-S1-C16
5	F	802	Y6Y	C21-C17-S1-C16
5	B	802	Y6Y	C5-C6-C7-C12
5	C	802	Y6Y	C5-C6-C7-C12
5	D	802	Y6Y	C5-C6-C7-C12
5	F	802	Y6Y	C5-C6-C7-C12
5	A	802	Y6Y	C5-C6-C7-C12
5	E	802	Y6Y	C5-C6-C7-C12

There are no ring outliers.

24 monomers are involved in 118 short contacts:

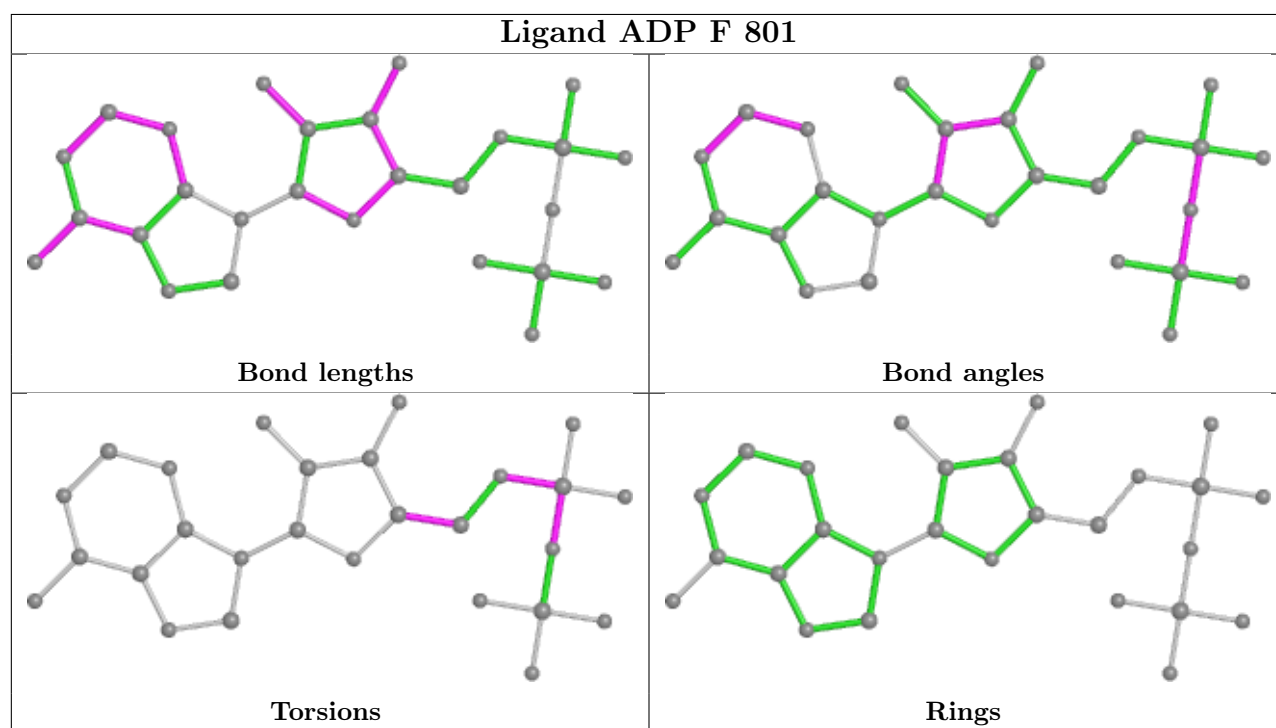
Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	F	801	ADP	3	0
4	A	801	ADP	3	0
4	I	801	ADP	3	0
5	D	802	Y6Y	6	0
4	D	801	ADP	3	0
5	J	802	Y6Y	7	0
5	I	802	Y6Y	7	0
4	G	801	ADP	3	0
5	L	802	Y6Y	7	0
4	E	801	ADP	3	0
4	H	801	ADP	3	0
5	H	802	Y6Y	7	0
4	J	801	ADP	3	0
5	G	802	Y6Y	7	0
4	B	801	ADP	3	0
5	F	802	Y6Y	7	0
5	B	802	Y6Y	7	0
4	L	801	ADP	3	0
5	C	802	Y6Y	7	0
4	K	801	ADP	3	0

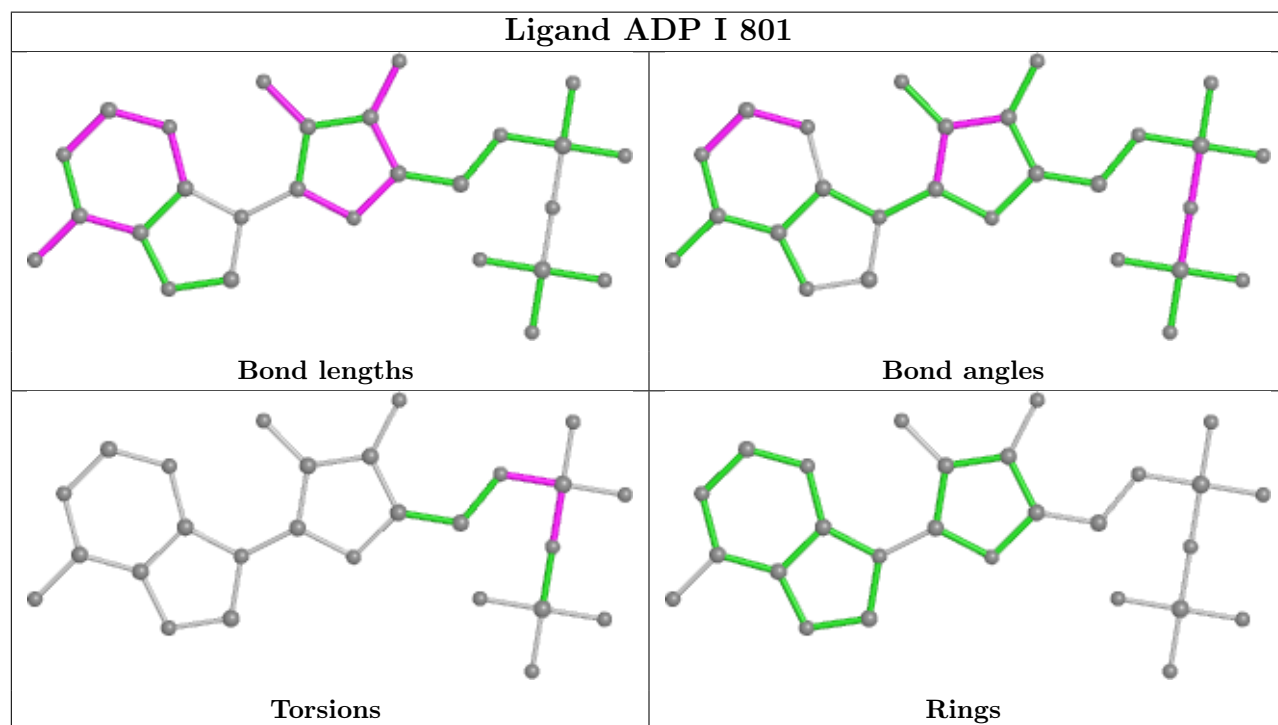
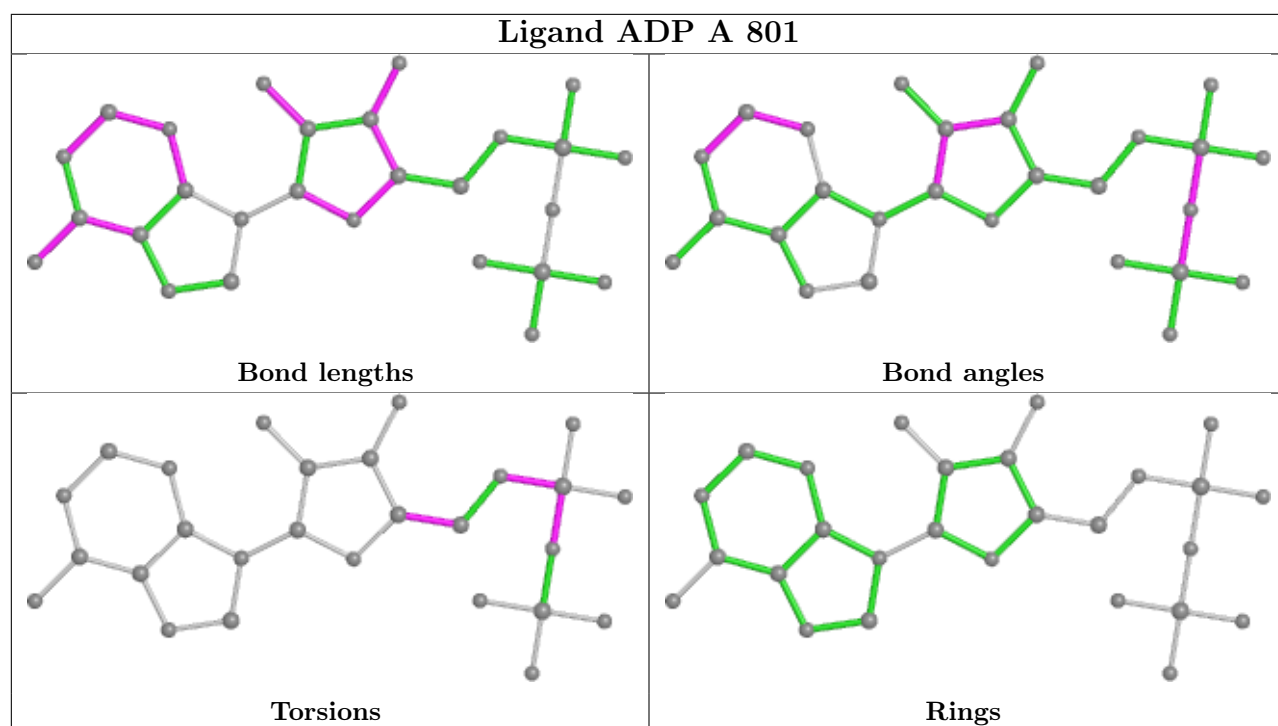
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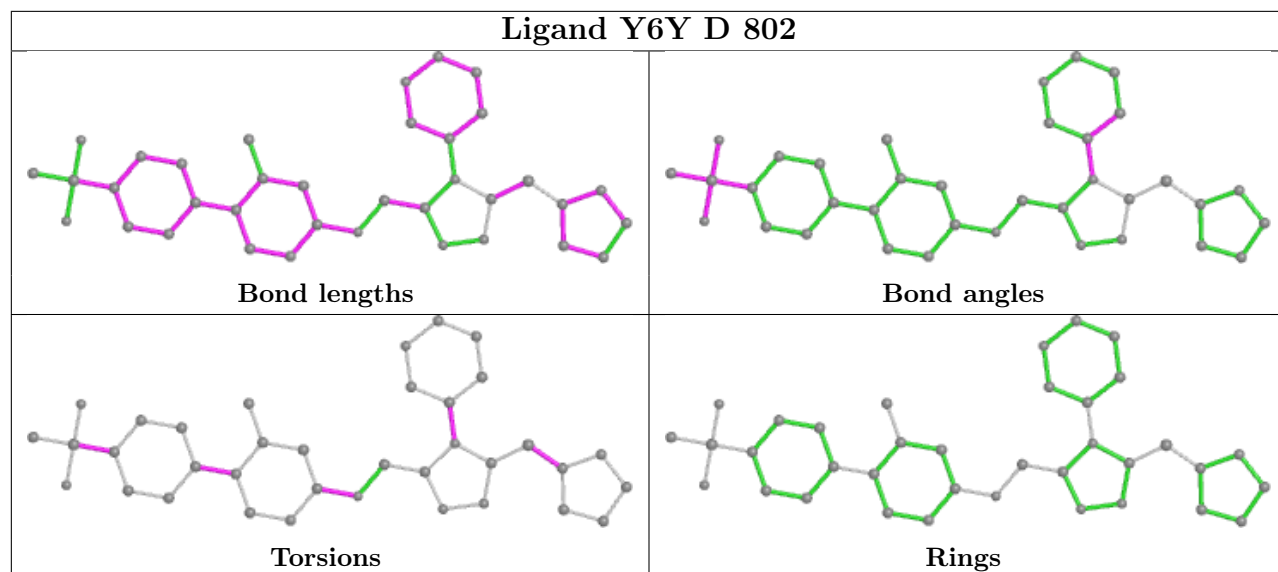
Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	E	802	Y6Y	6	0
5	K	802	Y6Y	7	0
5	A	802	Y6Y	7	0
4	C	801	ADP	3	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

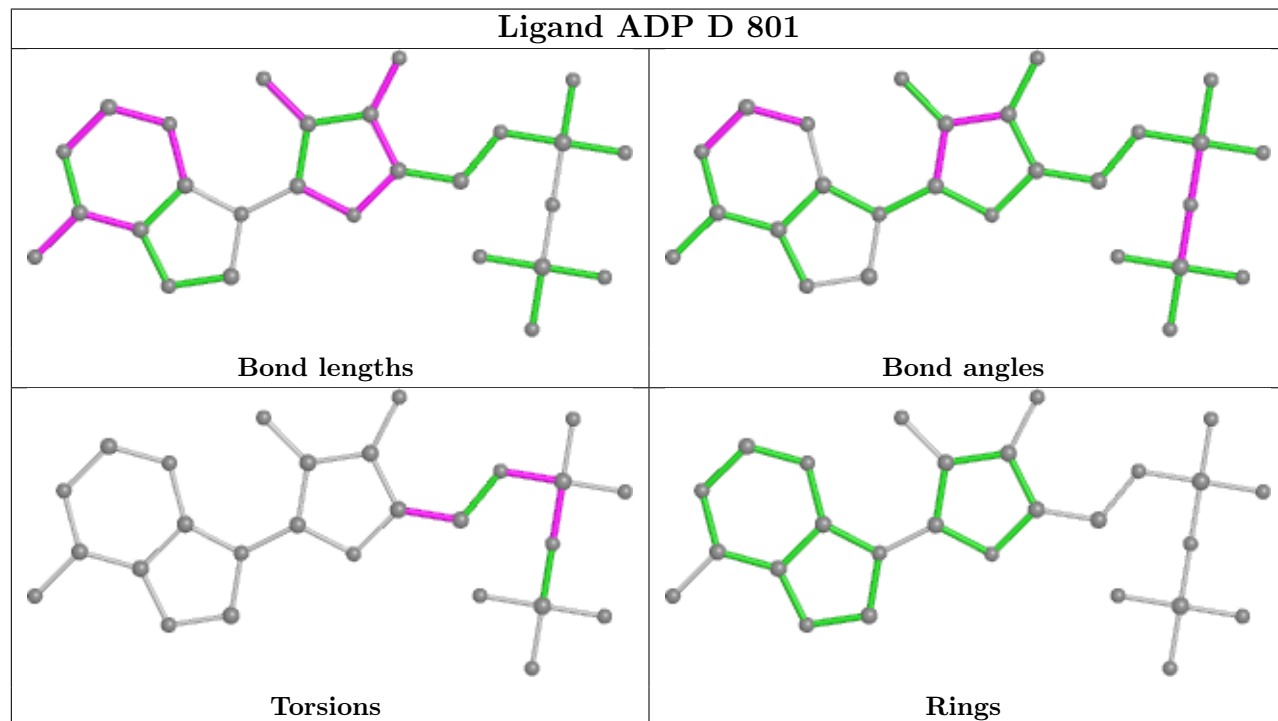




## Ligand Y6Y D 802

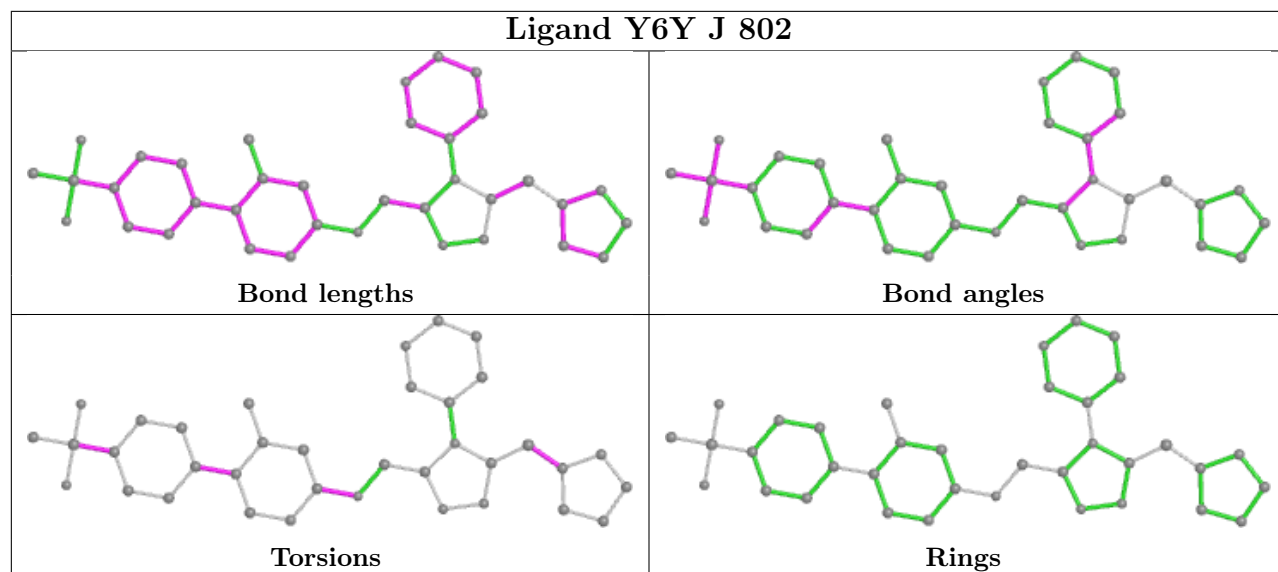


## Ligand ADP D 801

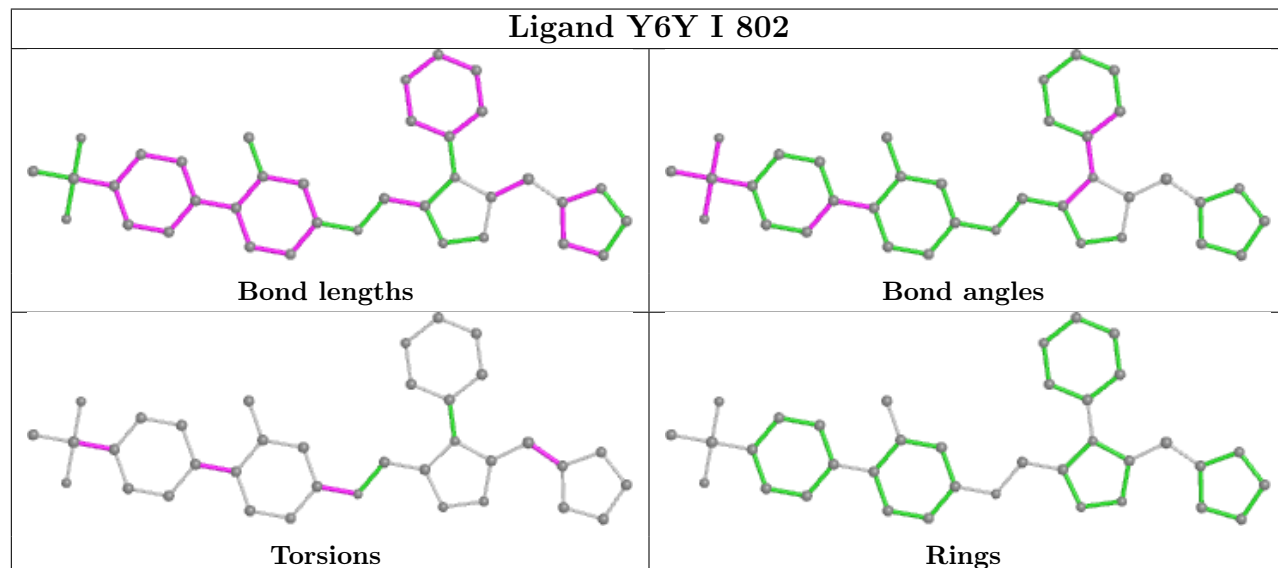


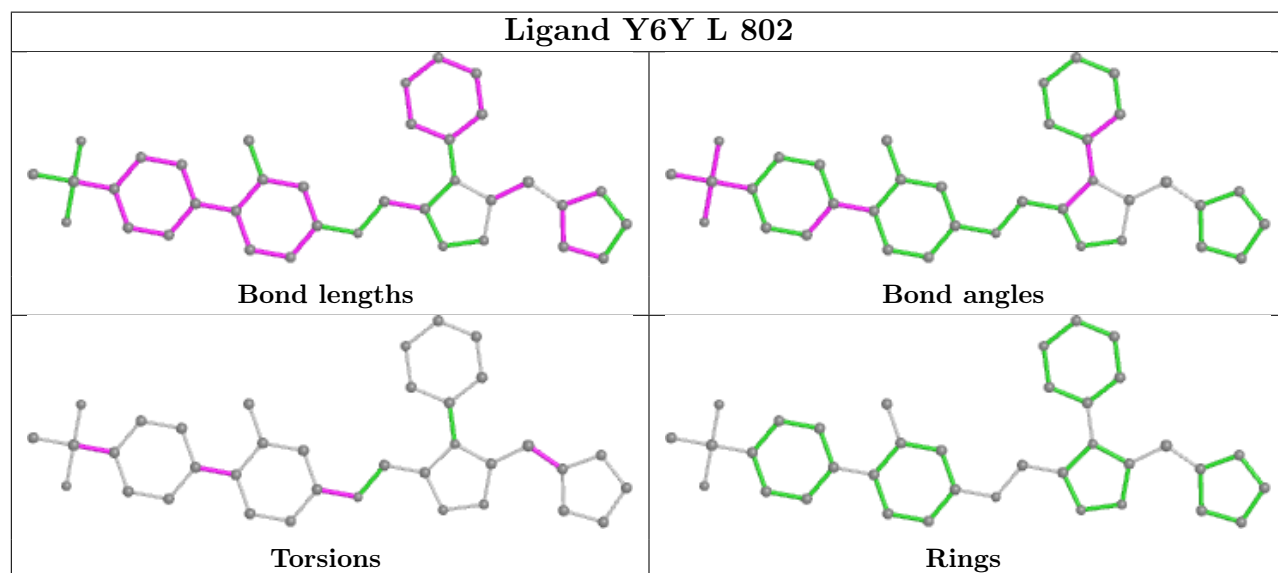
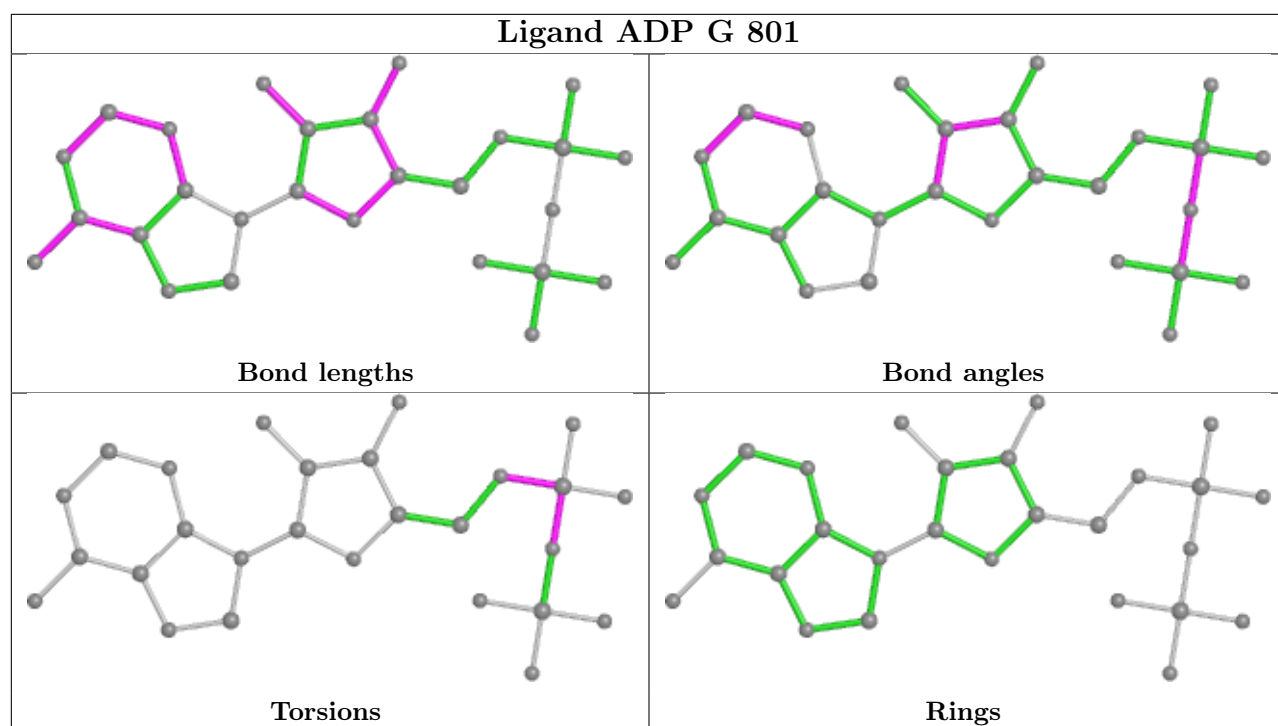


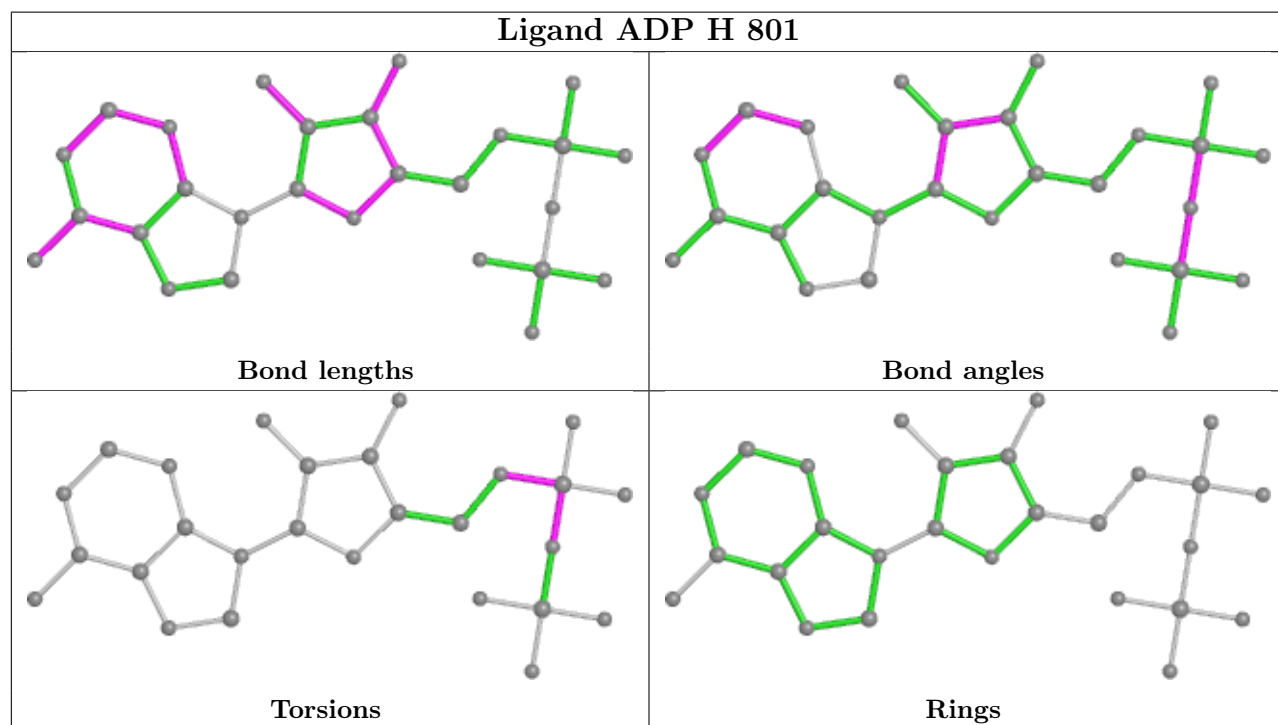
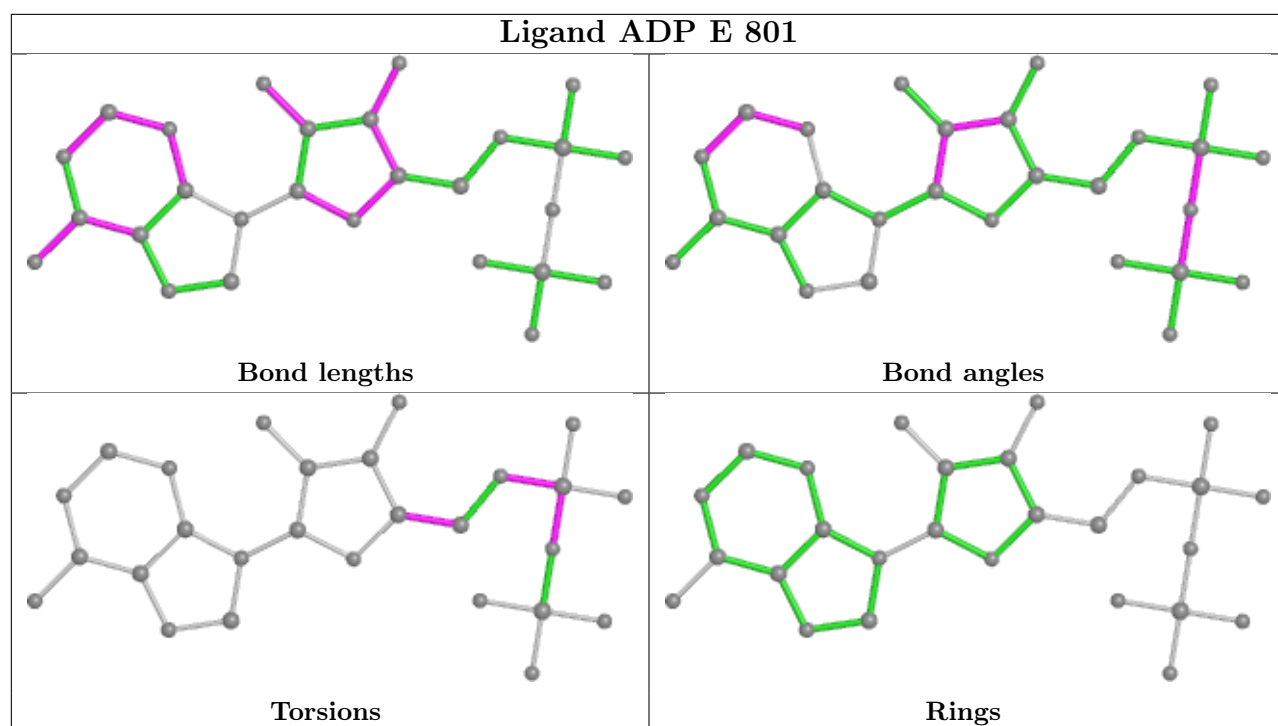
## Ligand Y6Y J 802



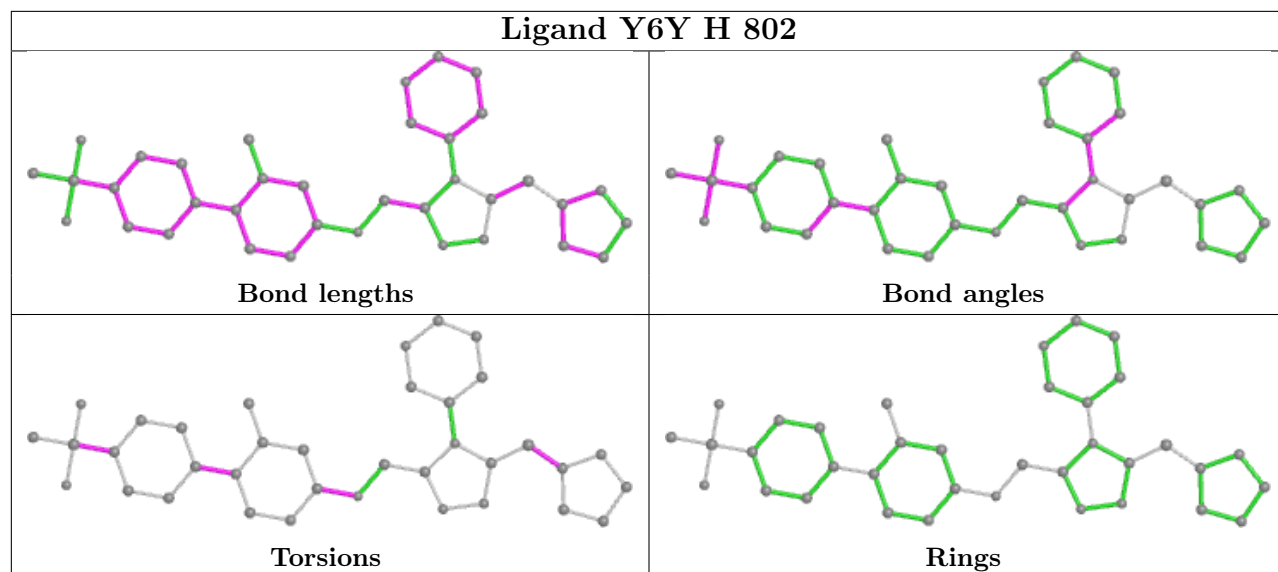
## Ligand Y6Y I 802



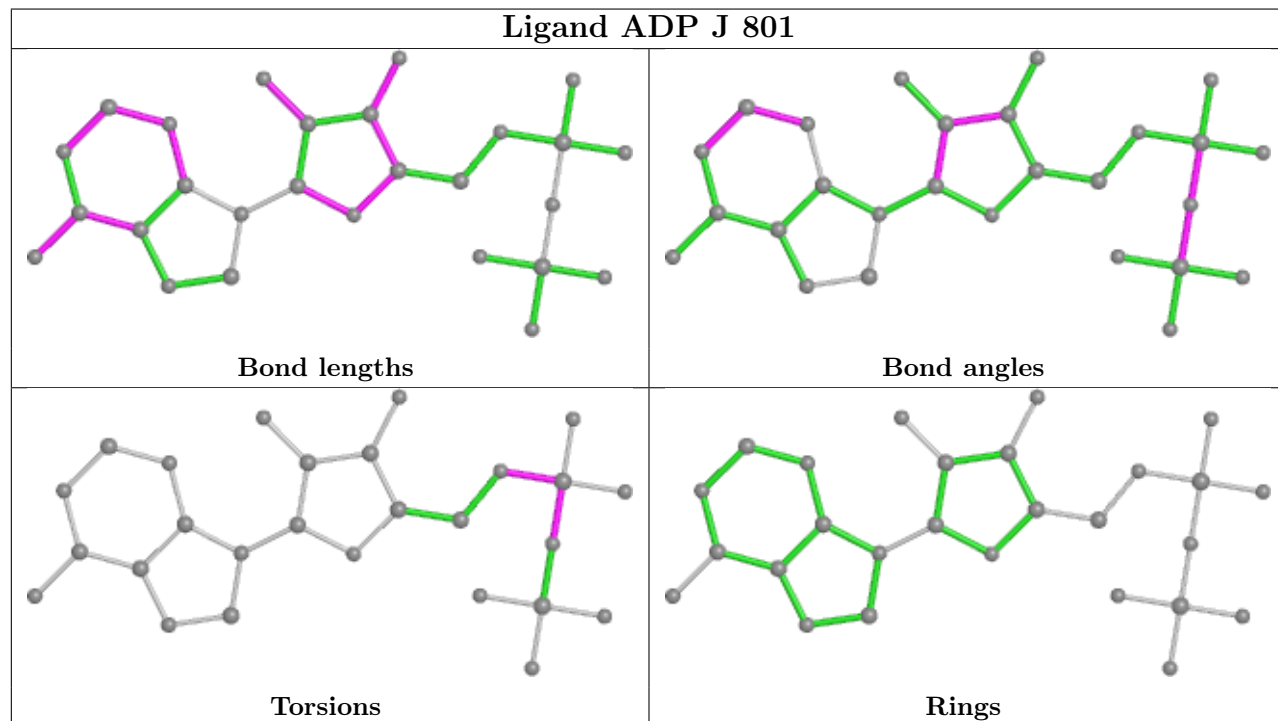




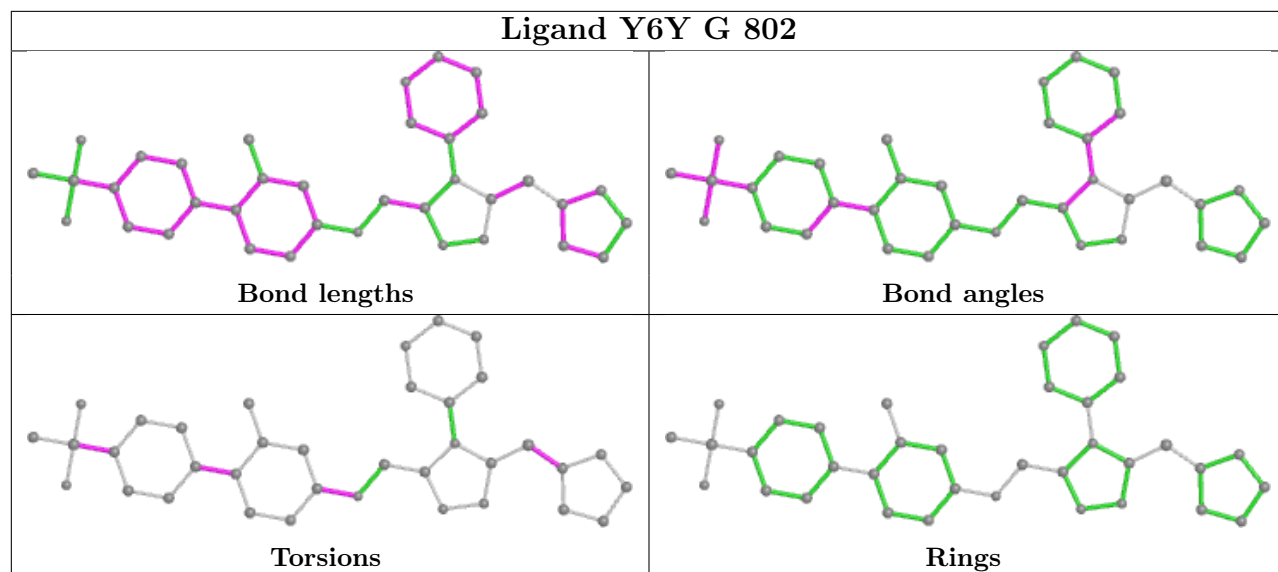
## Ligand Y6Y H 802



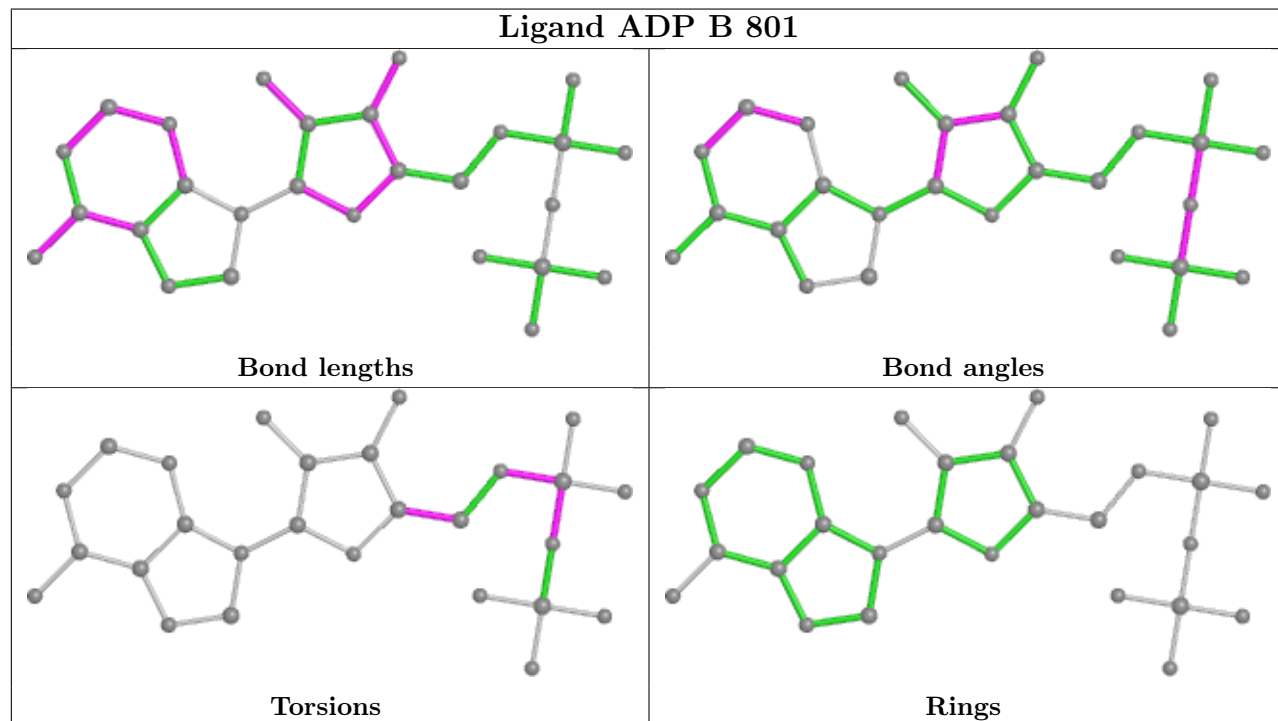
## Ligand ADP J 801



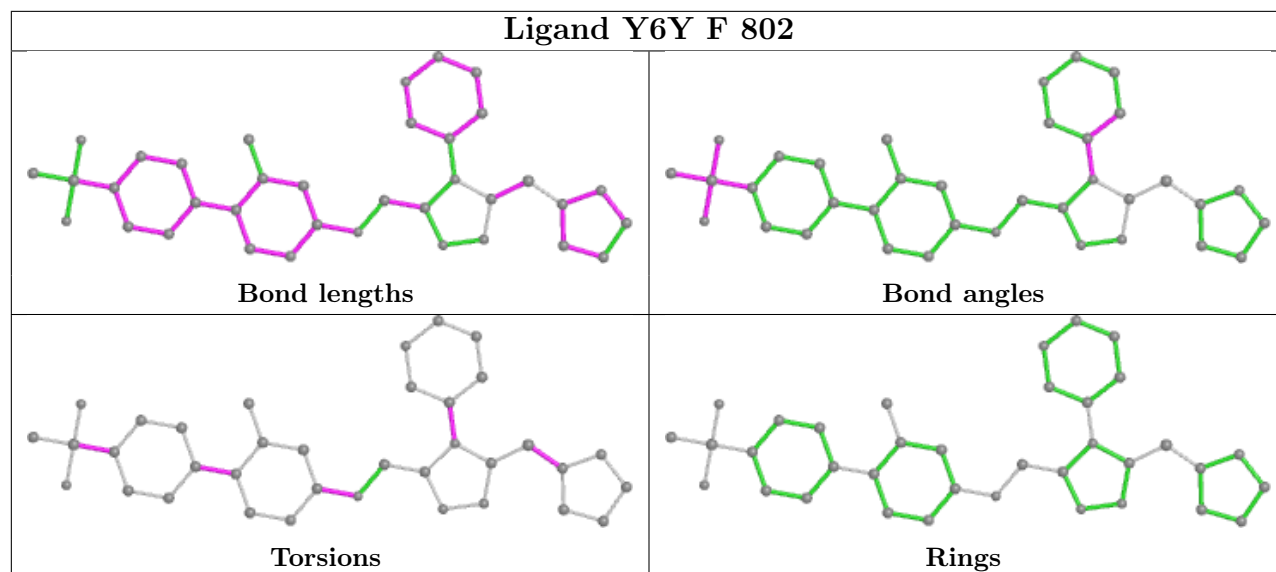
## Ligand Y6Y G 802



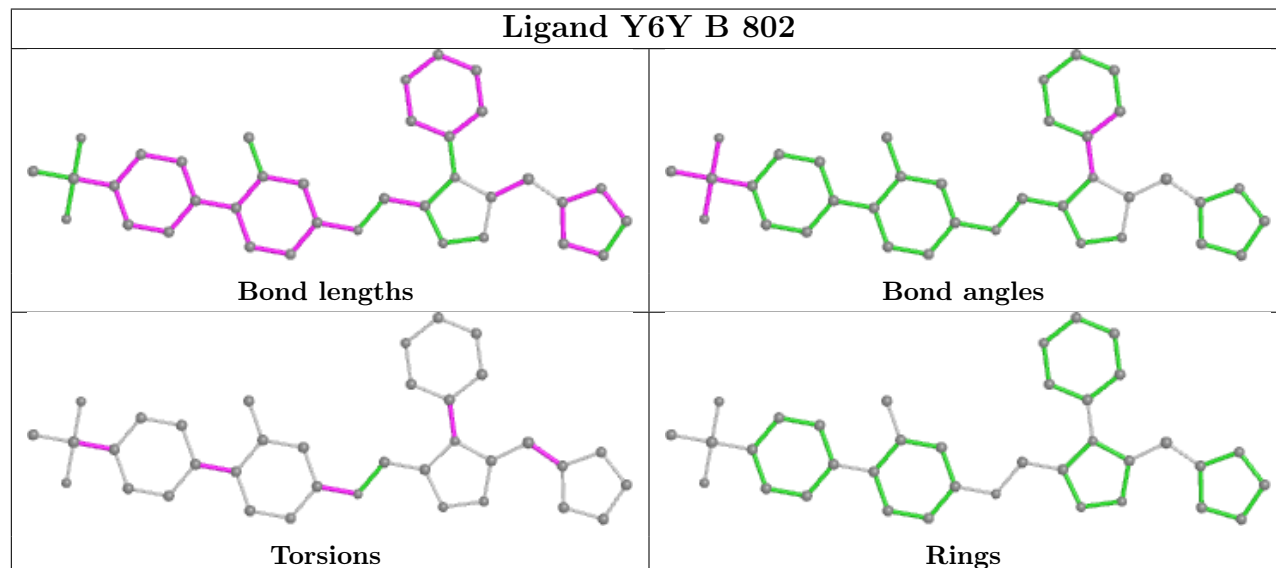
## Ligand ADP B 801



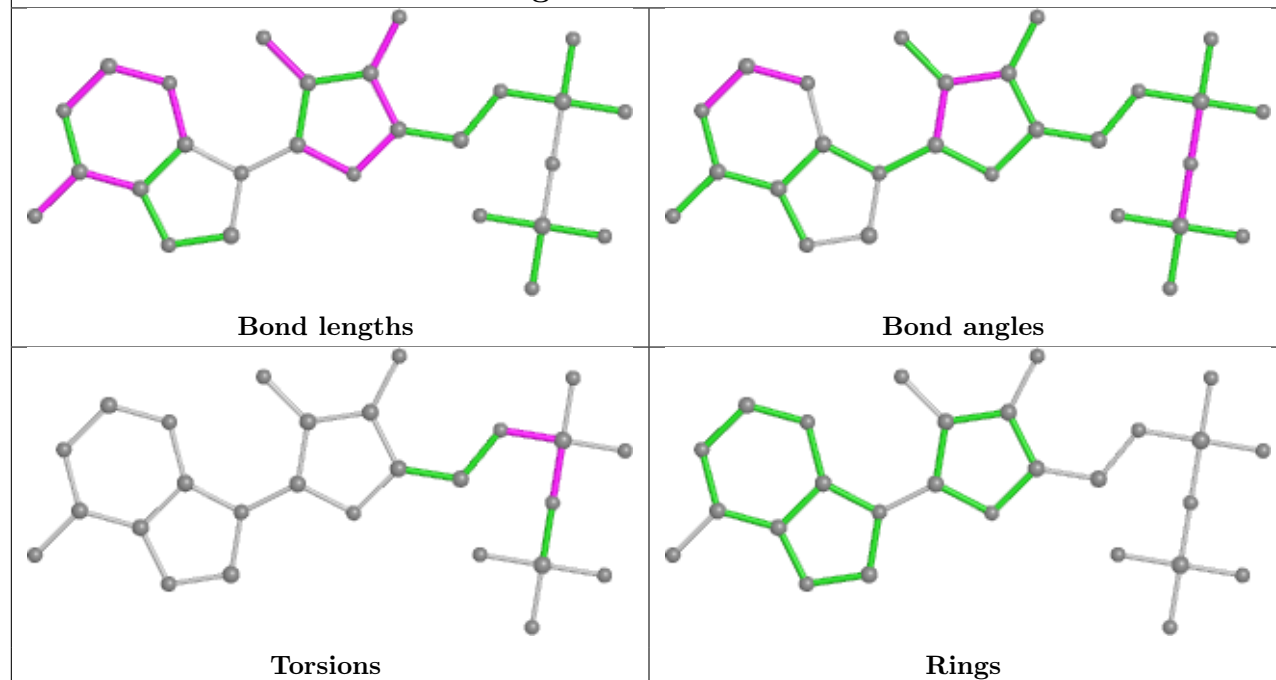
## Ligand Y6Y F 802



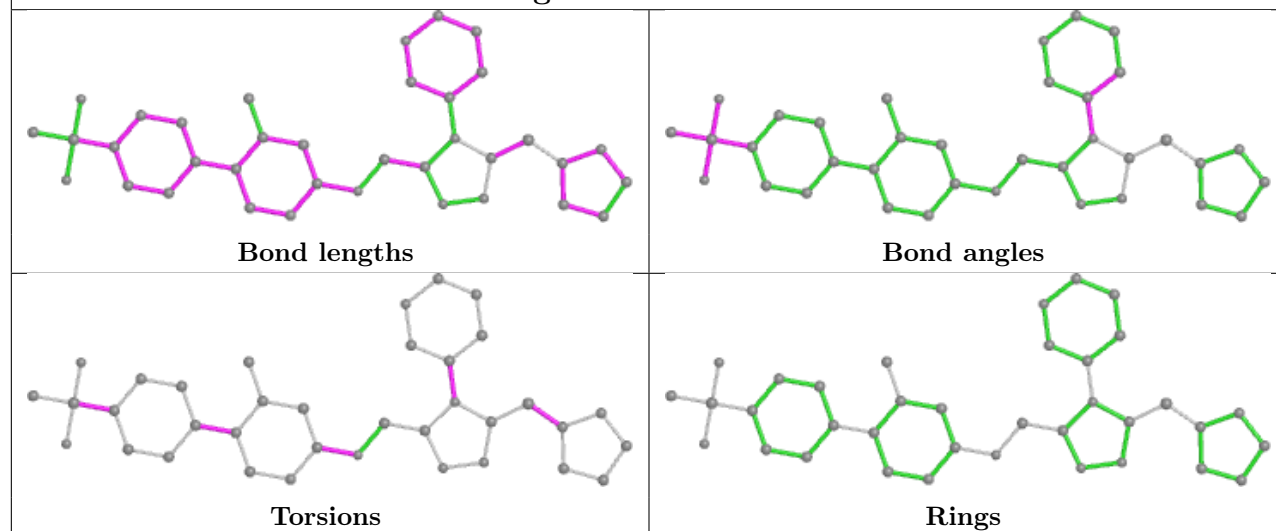
## Ligand Y6Y B 802



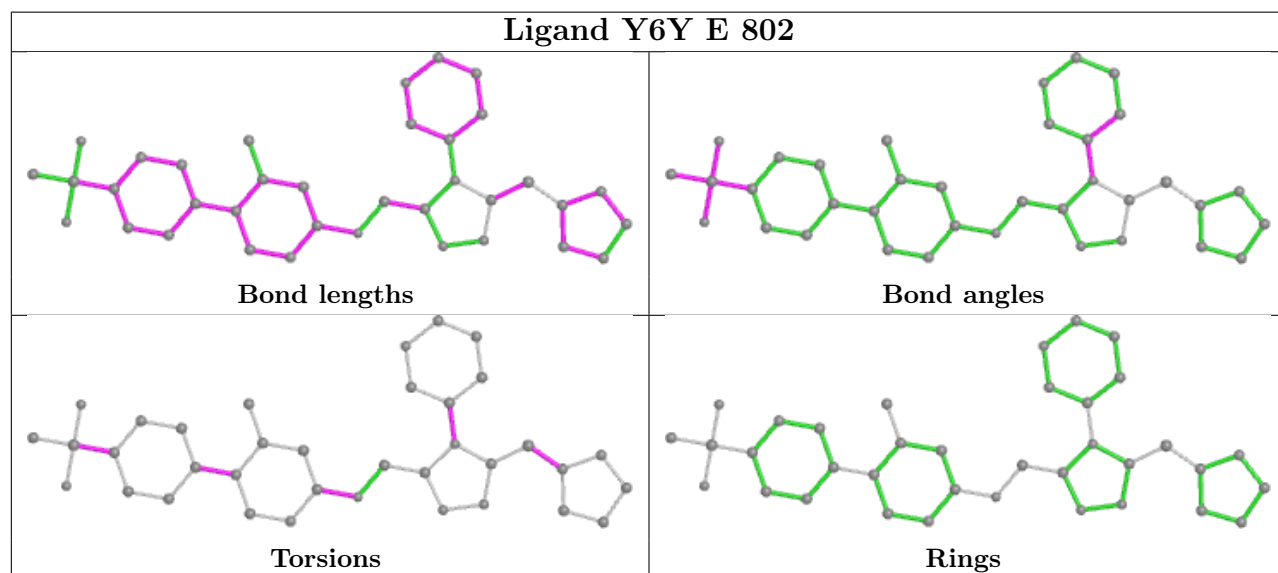
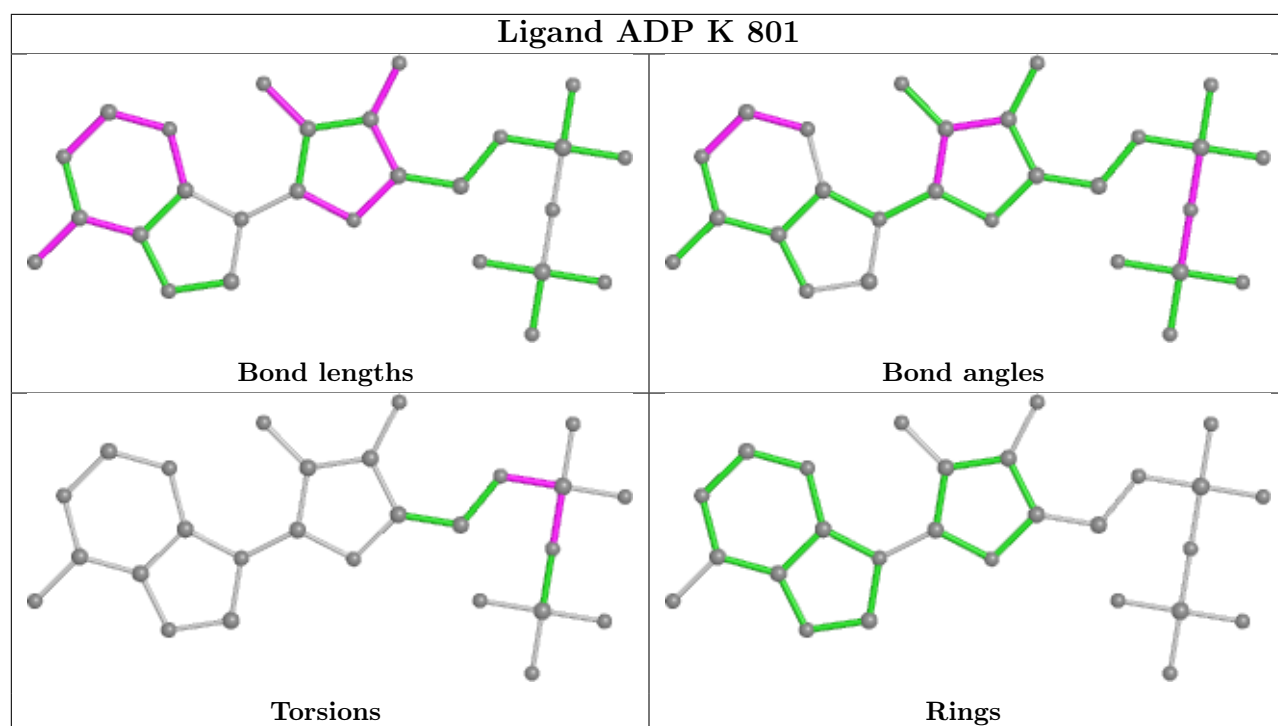
## Ligand ADP L 801



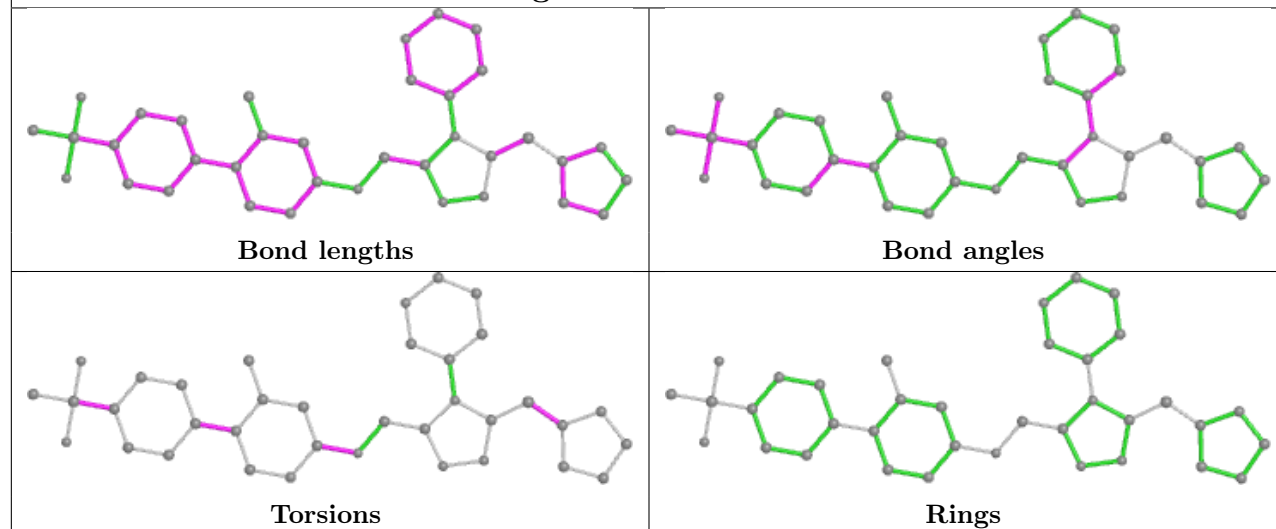
## Ligand Y6Y C 802



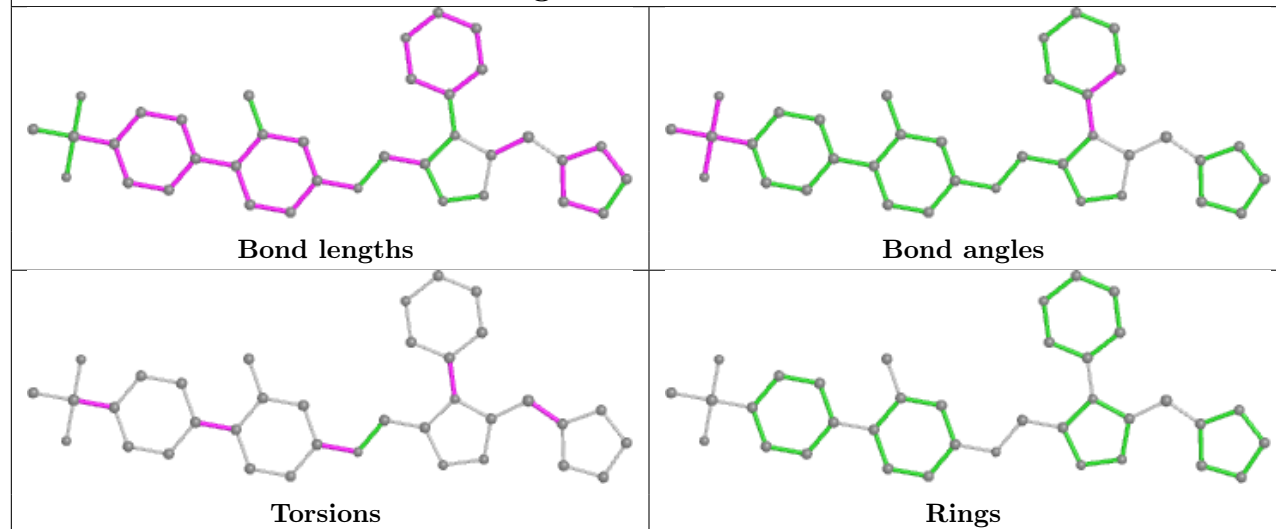


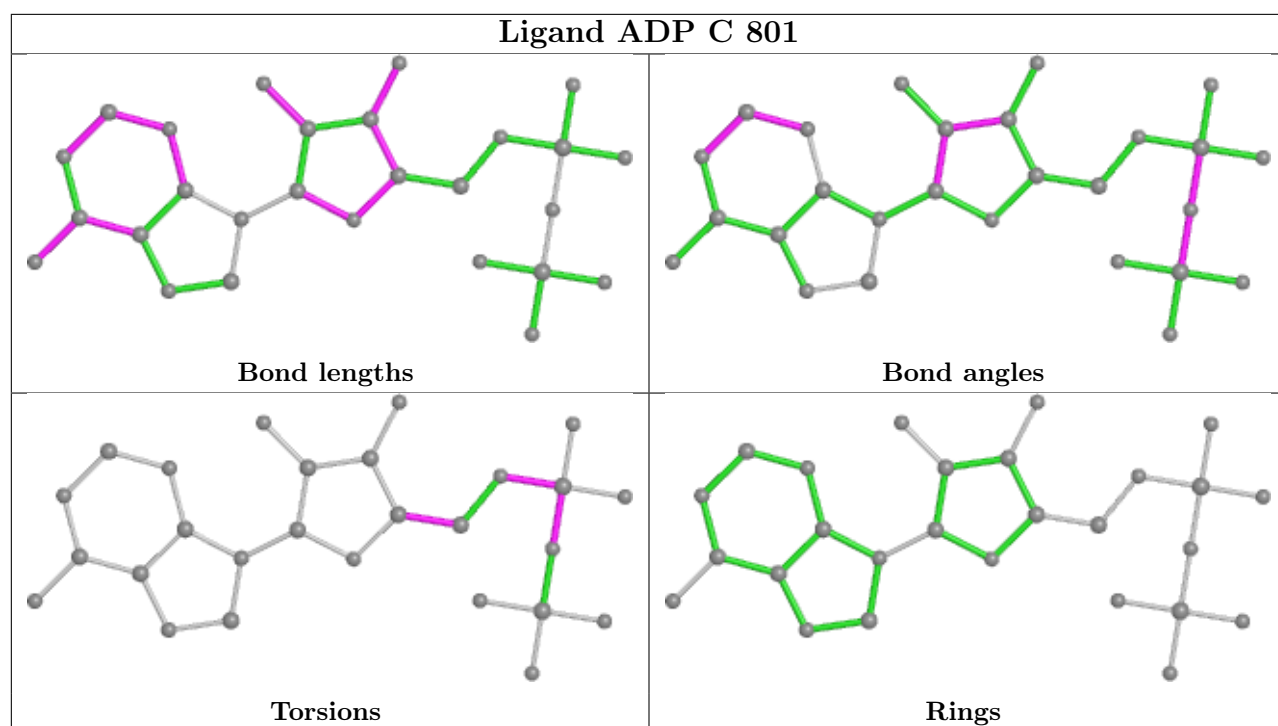


## Ligand Y6Y K 802



## Ligand Y6Y A 802





## 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.

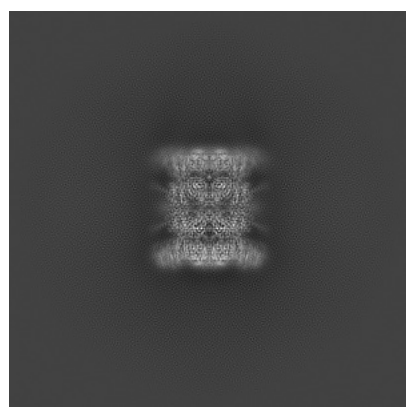
## 6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-32827. These allow visual inspection of the internal detail of the map and identification of artifacts.

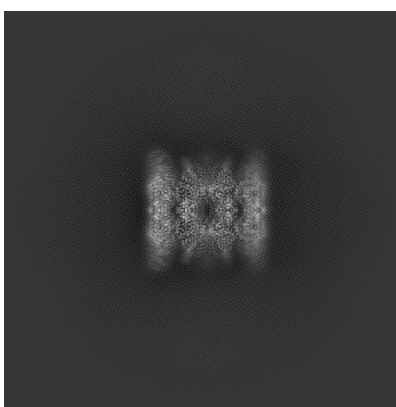
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

### 6.1 Orthogonal projections [i](#)

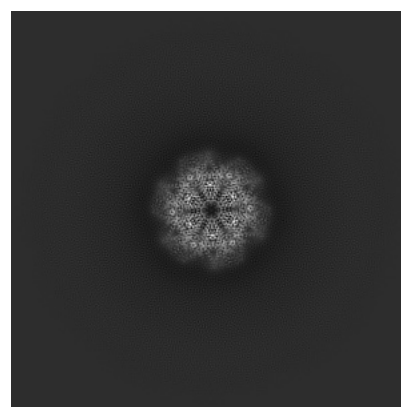
#### 6.1.1 Primary map



X



Y

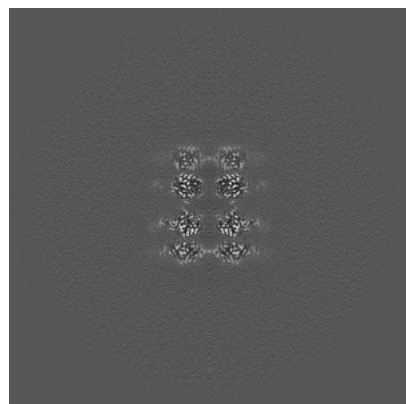


Z

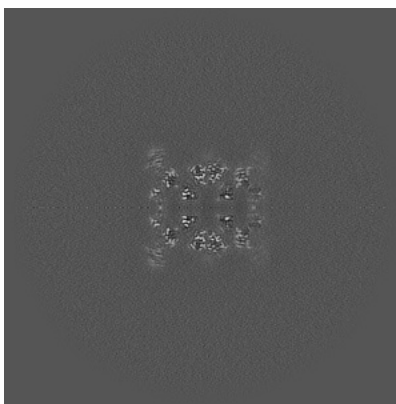
The images above show the map projected in three orthogonal directions.

### 6.2 Central slices [i](#)

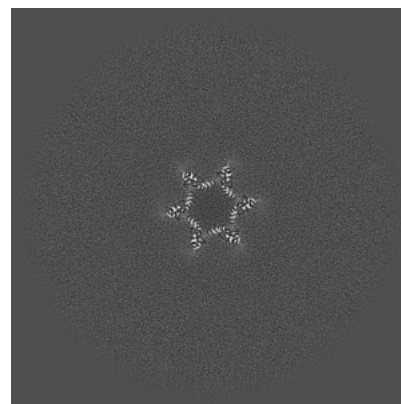
#### 6.2.1 Primary map



X Index: 320



Y Index: 320

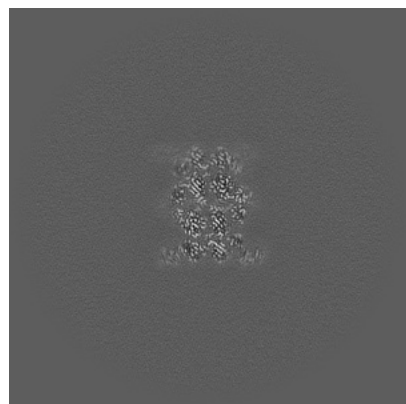


Z Index: 320

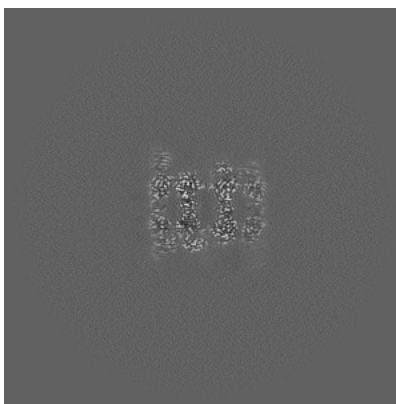
The images above show central slices of the map in three orthogonal directions.

## 6.3 Largest variance slices [i](#)

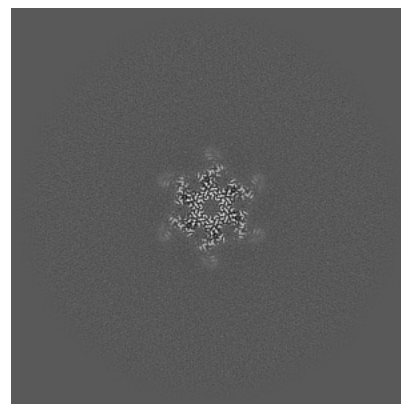
### 6.3.1 Primary map



X Index: 285



Y Index: 303

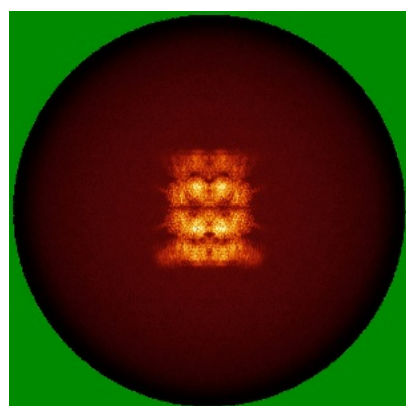


Z Index: 291

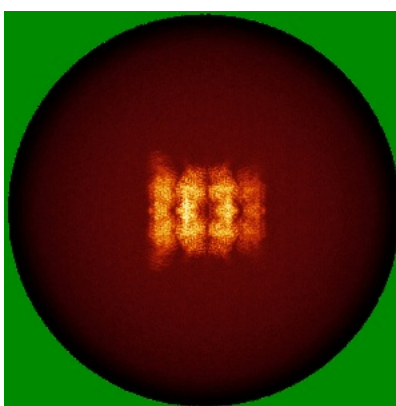
The images above show the largest variance slices of the map in three orthogonal directions.

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

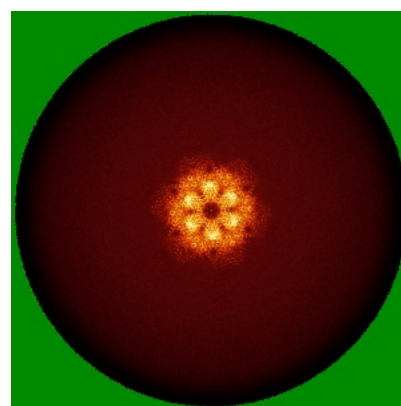
### 6.4.1 Primary map



X



Y

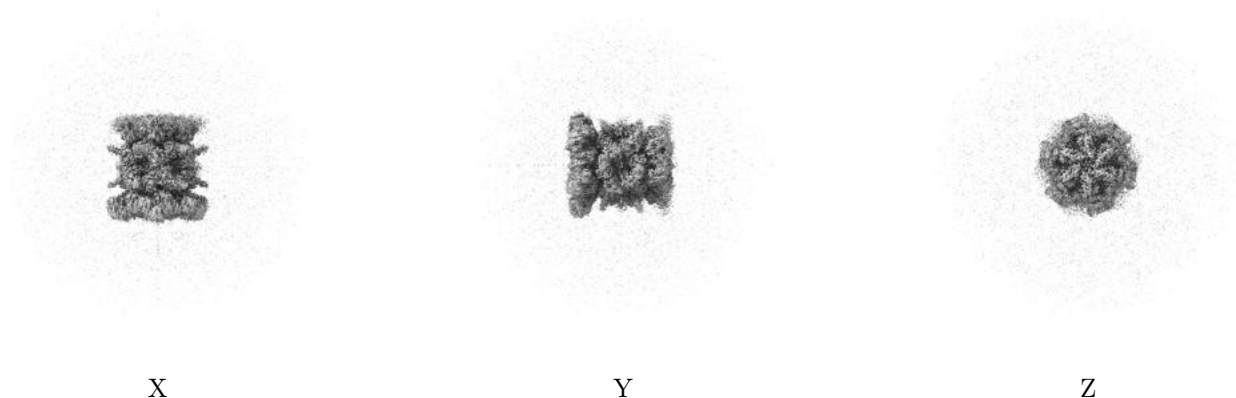


Z

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 0.331. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

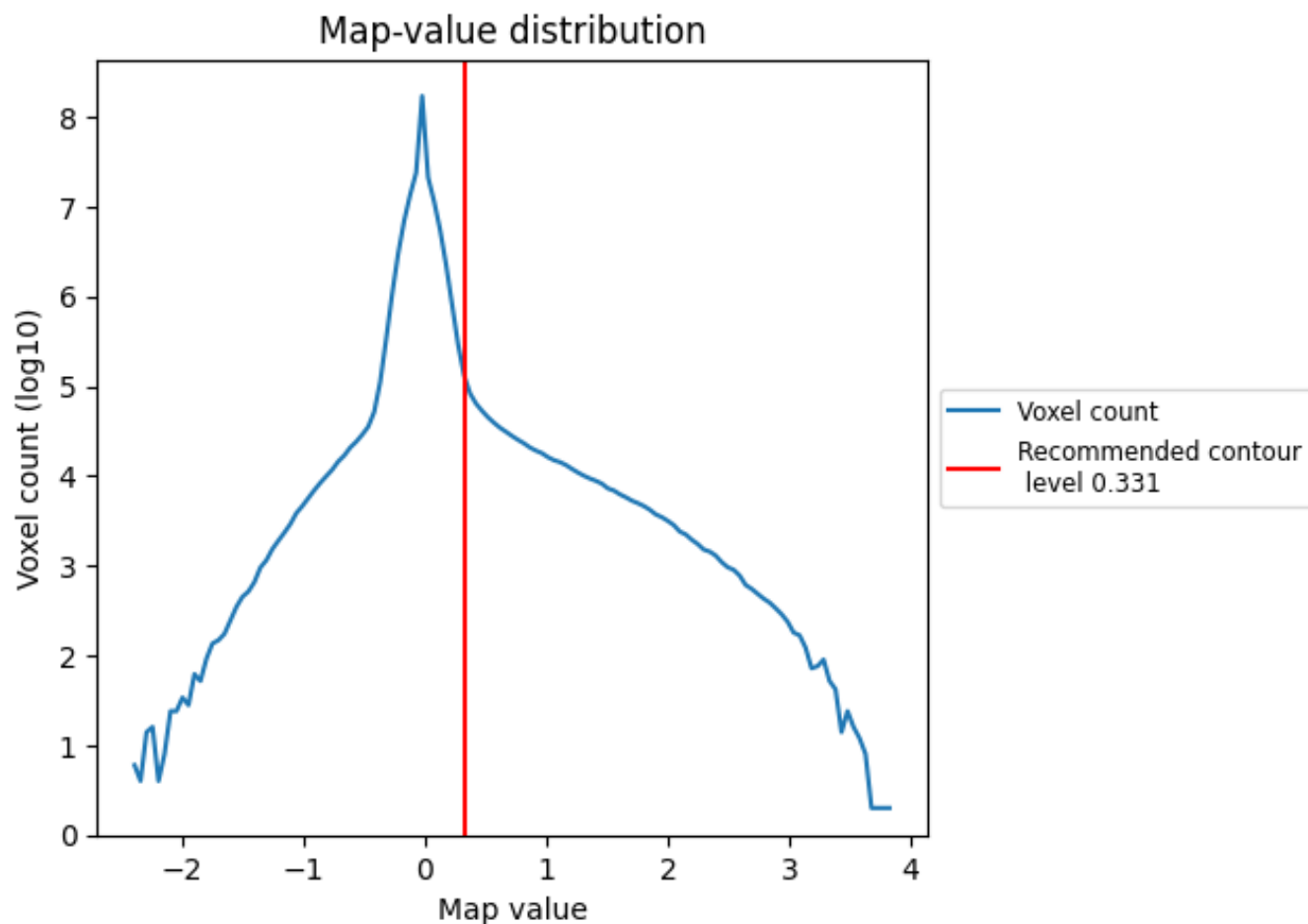
## 6.6 Mask visualisation [i](#)

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.

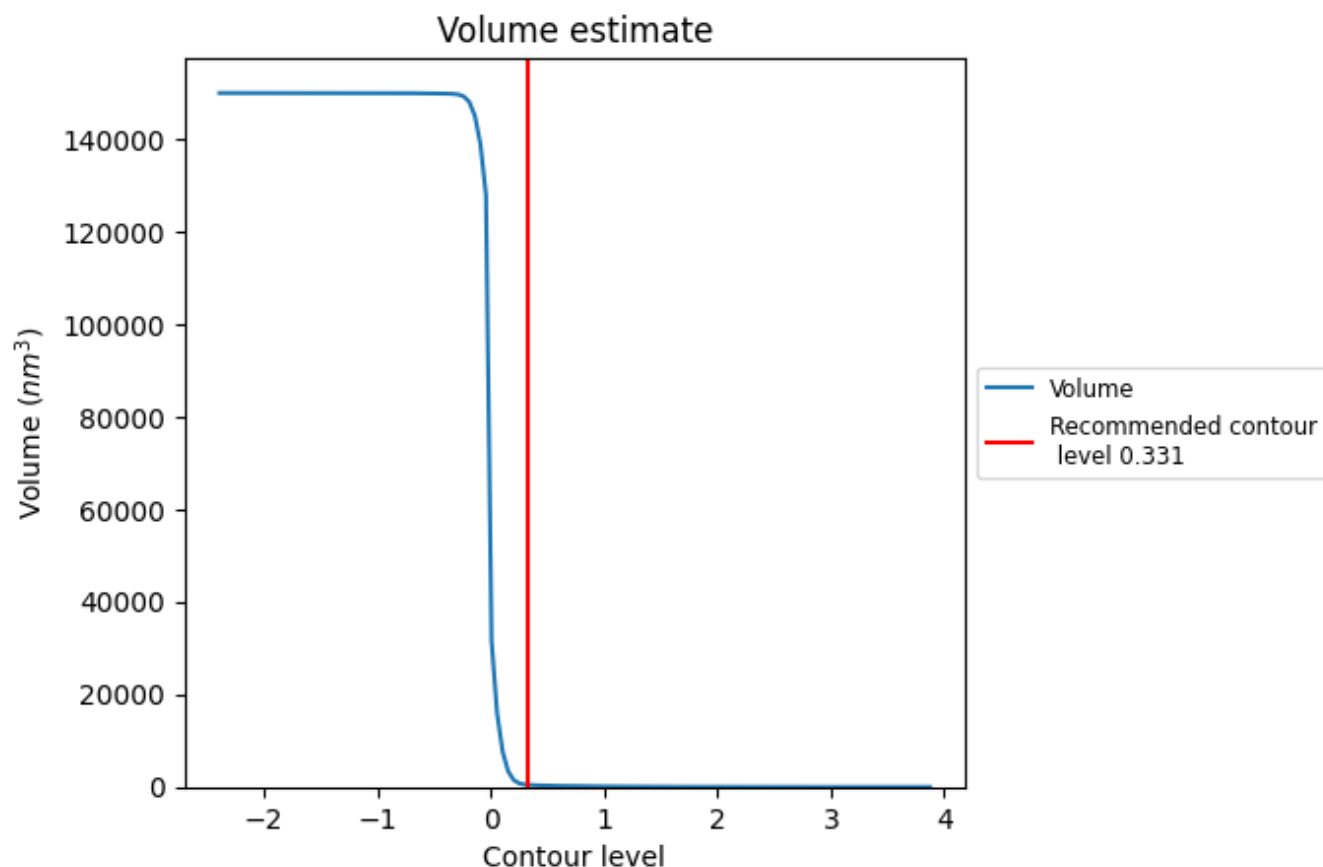
### 7.1 Map-value distribution [i](#)



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.



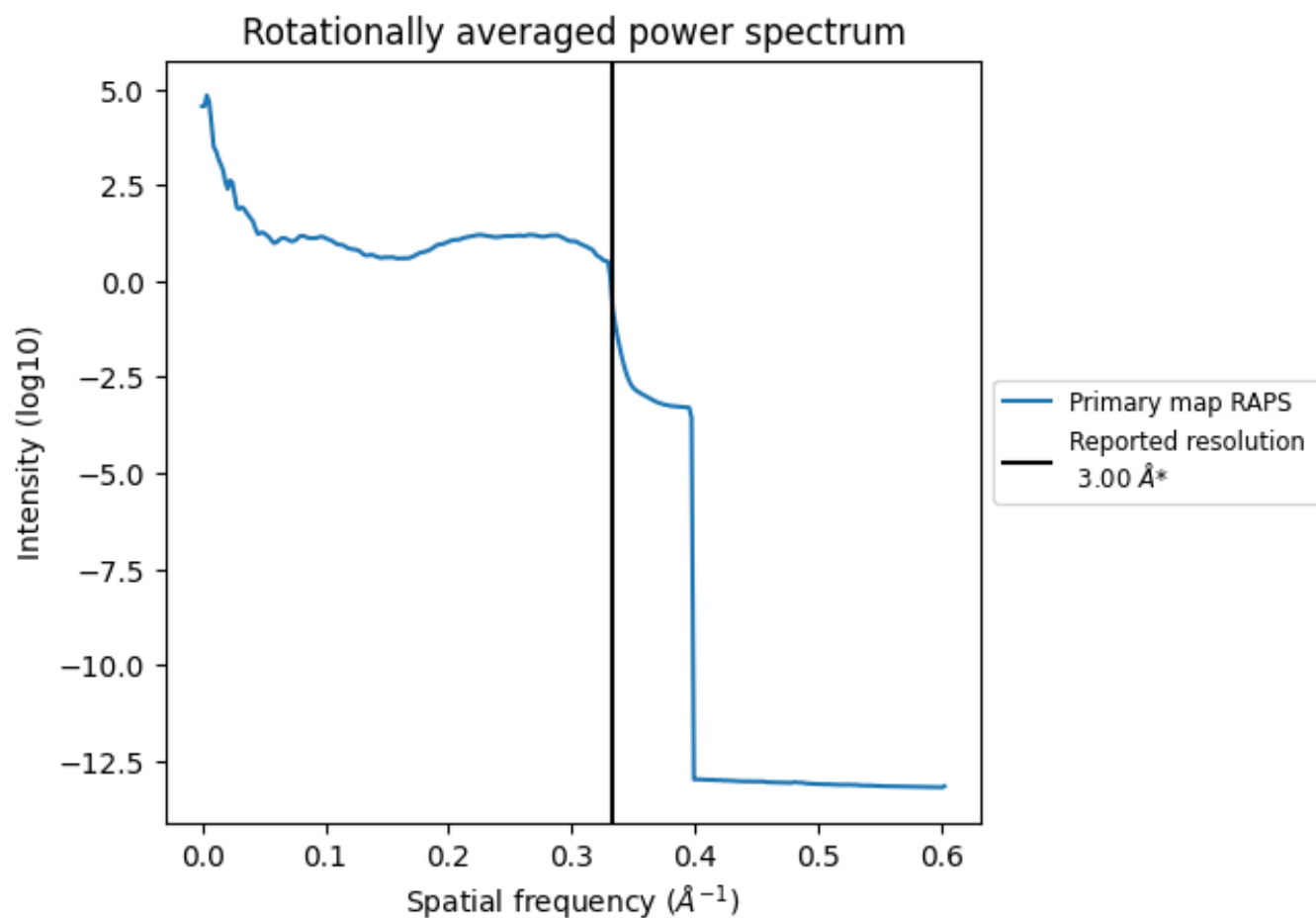
## 7.2 Volume estimate [i](#)



The volume at the recommended contour level is 459  $\text{nm}^3$ ; this corresponds to an approximate mass of 415 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 0.333 Å<sup>-1</sup>

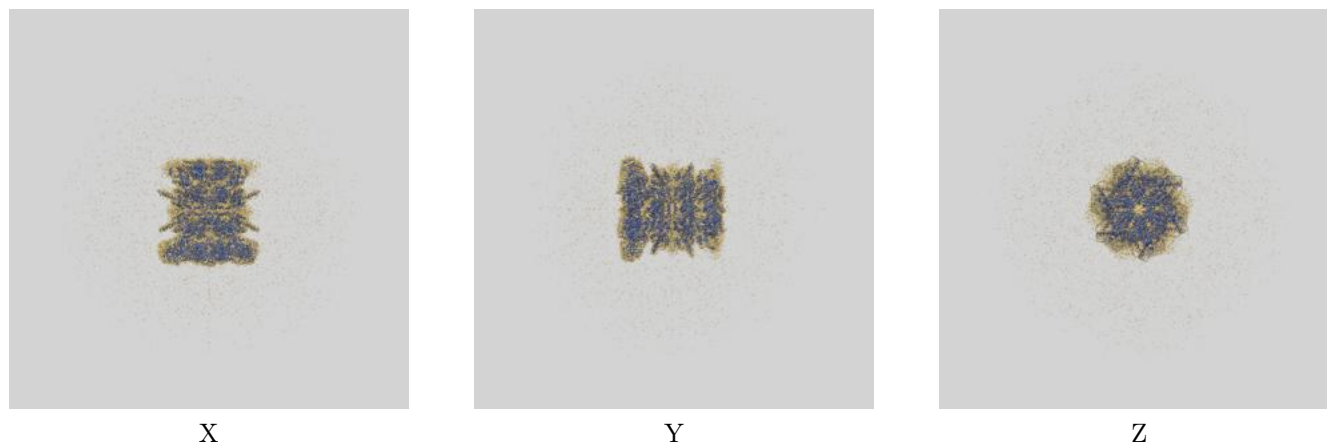
## 8 Fourier-Shell correlation

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

## 9 Map-model fit [i](#)

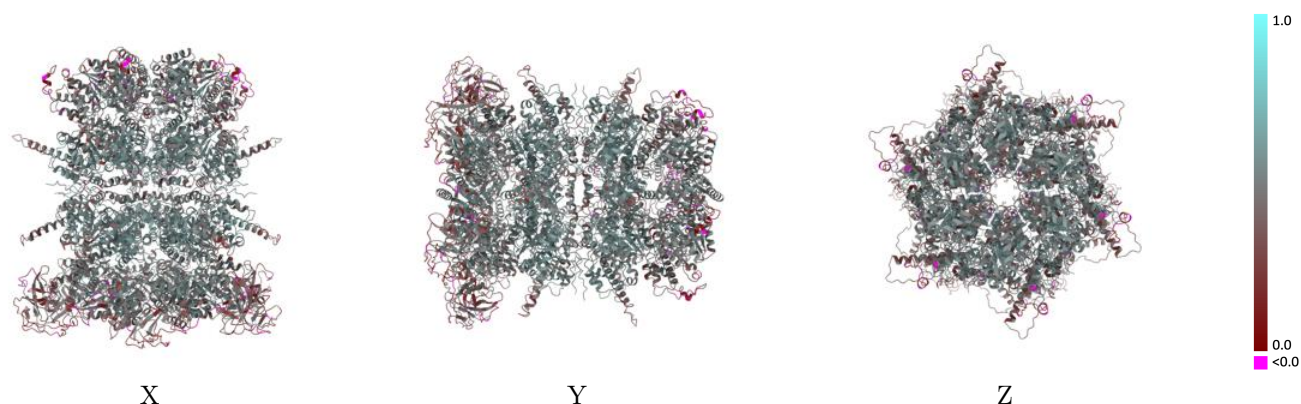
This section contains information regarding the fit between EMDB map EMD-32827 and PDB model 7WUB. Per-residue inclusion information can be found in [section 3](#) on [page 8](#).

### 9.1 Map-model overlay [i](#)



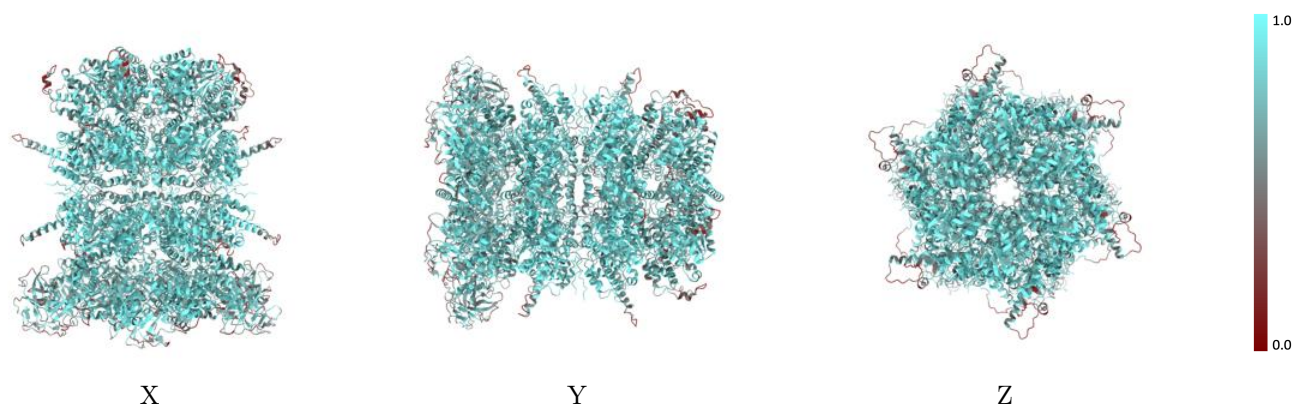
The images above show the 3D surface view of the map at the recommended contour level 0.331 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



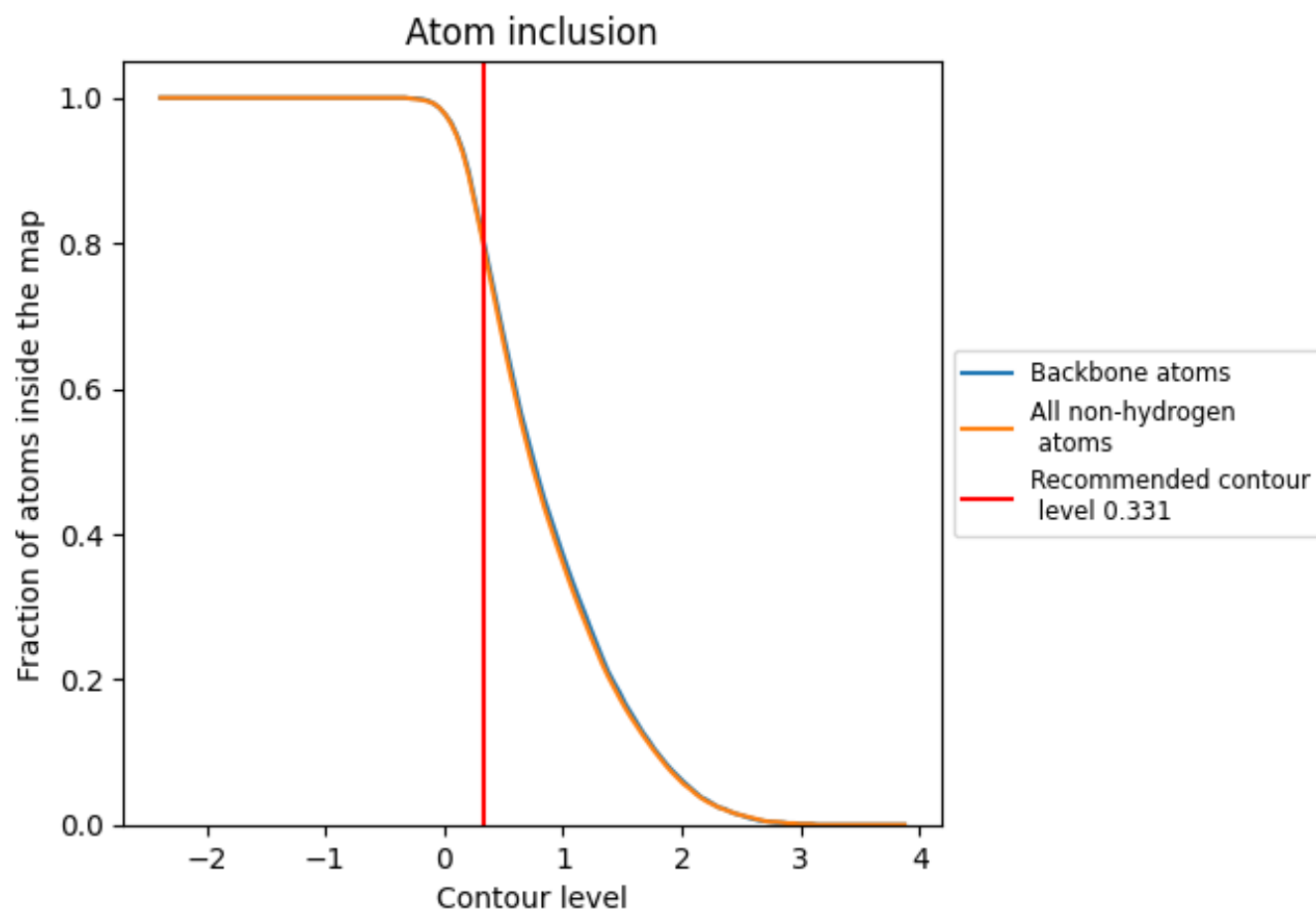
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.331).

## 9.4 Atom inclusion [i](#)



At the recommended contour level, 80% of all backbone atoms, 80% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.331) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	<div><div></div></div> 0.7970	<div><div></div></div> 0.4650
A	<div><div></div></div> 0.8080	<div><div></div></div> 0.4750
B	<div><div></div></div> 0.8100	<div><div></div></div> 0.4740
C	<div><div></div></div> 0.8100	<div><div></div></div> 0.4740
D	<div><div></div></div> 0.8060	<div><div></div></div> 0.4710
E	<div><div></div></div> 0.8060	<div><div></div></div> 0.4710
F	<div><div></div></div> 0.8060	<div><div></div></div> 0.4720
G	<div><div></div></div> 0.8000	<div><div></div></div> 0.4610
H	<div><div></div></div> 0.7970	<div><div></div></div> 0.4600
I	<div><div></div></div> 0.7970	<div><div></div></div> 0.4570
J	<div><div></div></div> 0.7980	<div><div></div></div> 0.4590
K	<div><div></div></div> 0.7980	<div><div></div></div> 0.4600
L	<div><div></div></div> 0.7950	<div><div></div></div> 0.4600

1.0

0.0

<0.0