



Full wwPDB EM Validation Report ⓘ

Mar 8, 2026 – 05:02 AM UTC

PDB ID : 7WUB / pdb_00007wub
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

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

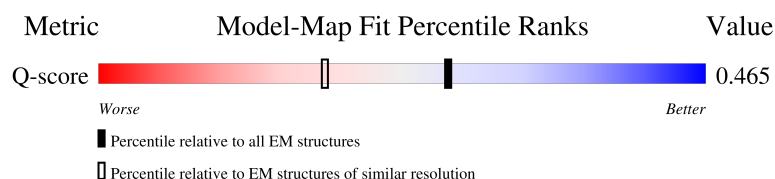
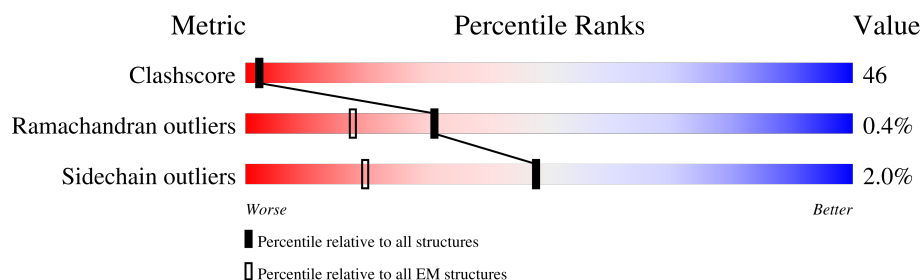
EMDB validation analysis : 0.0.1.dev132
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

1 Overall quality at a glance

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 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)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	14081 (2.50 - 3.50)

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

Mol	Chain	Length	Quality of chain
1	A	755	 5% 33% 42% 24%
1	B	755	 5% 33% 42% 24%
1	E	755	 5% 33% 42% 24%
1	F	755	 5% 32% 42% 24%

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Mol	Chain	Length	Quality of chain
1	G	755	
1	H	755	
1	I	755	
1	J	755	
1	K	755	
1	L	755	
2	C	576	
3	D	576	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
5	Y6Y	A	802	-	X	-	-
5	Y6Y	B	802	-	X	-	-
5	Y6Y	C	802	-	X	-	-
5	Y6Y	D	802	-	X	-	-
5	Y6Y	E	802	-	X	-	-
5	Y6Y	F	802	-	X	-	-

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		

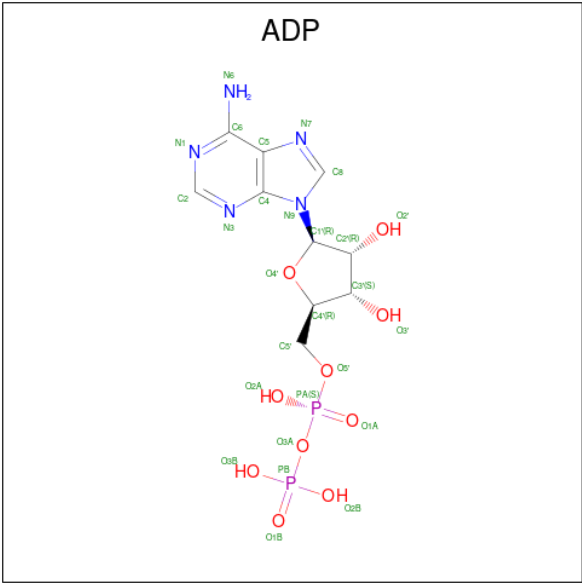
There are 2 discrepancies between the modelled and reference sequences:

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 (CCD ID: ADP) (formula: C₁₀H₁₅N₅O₁₀P₂).



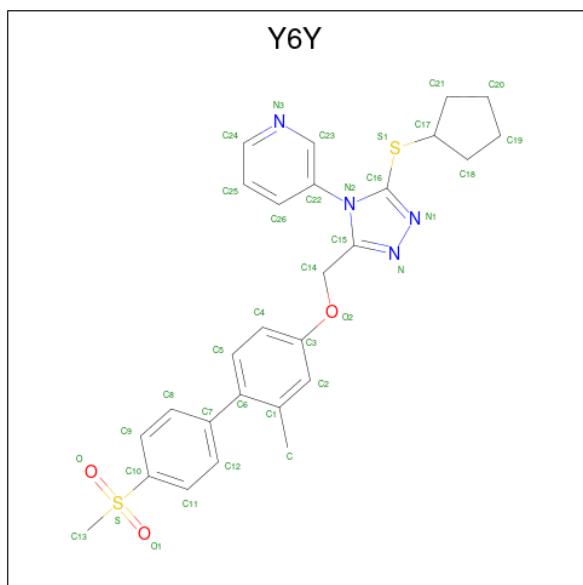
Mol	Chain	Residues	Atoms						AltConf
4	A	1	Total	C	H	N	O	P	0
			39	10	12	5	10	2	
4	B	1	Total	C	H	N	O	P	0
			39	10	12	5	10	2	
4	C	1	Total	C	H	N	O	P	0
			39	10	12	5	10	2	
4	D	1	Total	C	H	N	O	P	0
			39	10	12	5	10	2	
4	E	1	Total	C	H	N	O	P	0
			39	10	12	5	10	2	
4	F	1	Total	C	H	N	O	P	0
			39	10	12	5	10	2	
4	G	1	Total	C	H	N	O	P	0
			39	10	12	5	10	2	
4	H	1	Total	C	H	N	O	P	0
			39	10	12	5	10	2	
4	I	1	Total	C	H	N	O	P	0
			39	10	12	5	10	2	
4	J	1	Total	C	H	N	O	P	0
			39	10	12	5	10	2	
4	K	1	Total	C	H	N	O	P	0
			39	10	12	5	10	2	

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Mol	Chain	Residues	Atoms					AltConf	
4	L	1	Total	C	H	N	O	P	0
			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 (CCD ID: Y6Y) (formula: C₂₇H₂₈N₄O₃S₂) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms						AltConf
5	A	1	Total 64	C 27	H 28	N 4	O 3	S 2	0
5	B	1	Total 64	C 27	H 28	N 4	O 3	S 2	0
5	C	1	Total 64	C 27	H 28	N 4	O 3	S 2	0
5	D	1	Total 64	C 27	H 28	N 4	O 3	S 2	0
5	E	1	Total 64	C 27	H 28	N 4	O 3	S 2	0
5	F	1	Total 64	C 27	H 28	N 4	O 3	S 2	0
5	G	1	Total 64	C 27	H 28	N 4	O 3	S 2	0
5	H	1	Total 64	C 27	H 28	N 4	O 3	S 2	0
5	I	1	Total 64	C 27	H 28	N 4	O 3	S 2	0

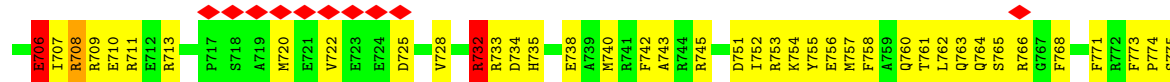
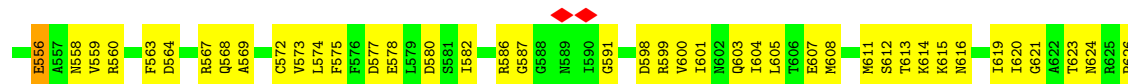
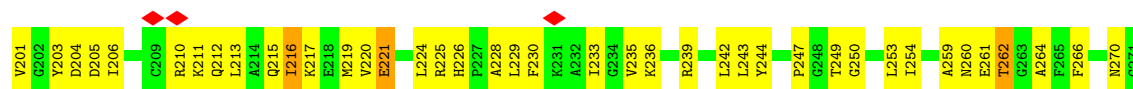
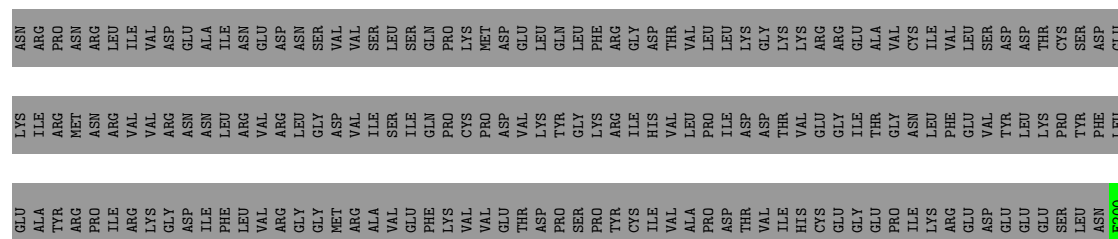
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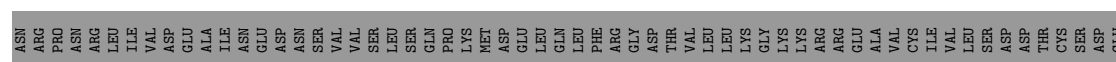
Mol	Chain	Residues	Atoms					AltConf	
5	J	1	Total 64	C 27	H 28	N 4	O 3	S 2	0
5	K	1	Total 64	C 27	H 28	N 4	O 3	S 2	0
5	L	1	Total 64	C 27	H 28	N 4	O 3	S 2	0

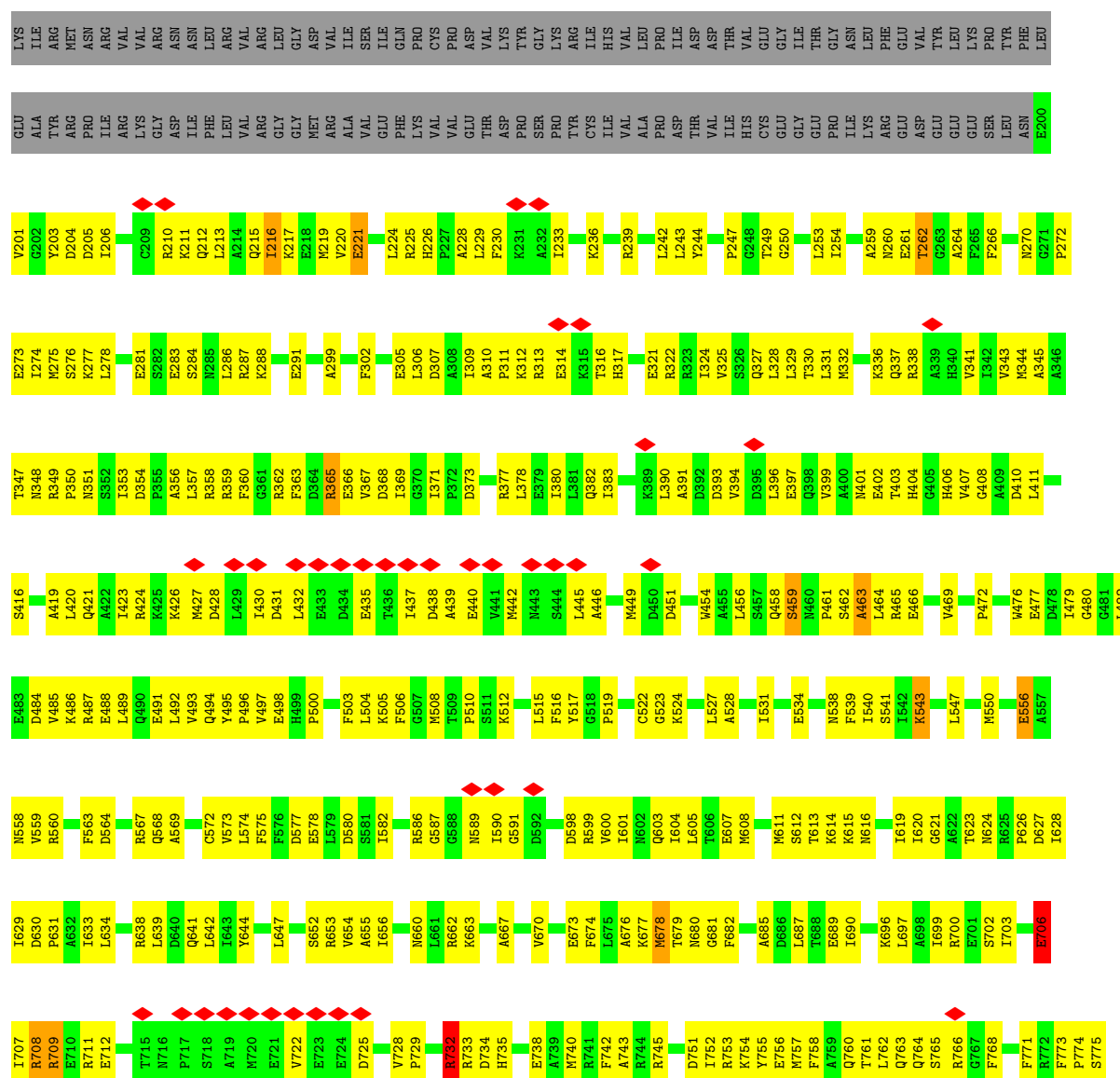


• Molecule 1: Transitional endoplasmic reticulum ATPase

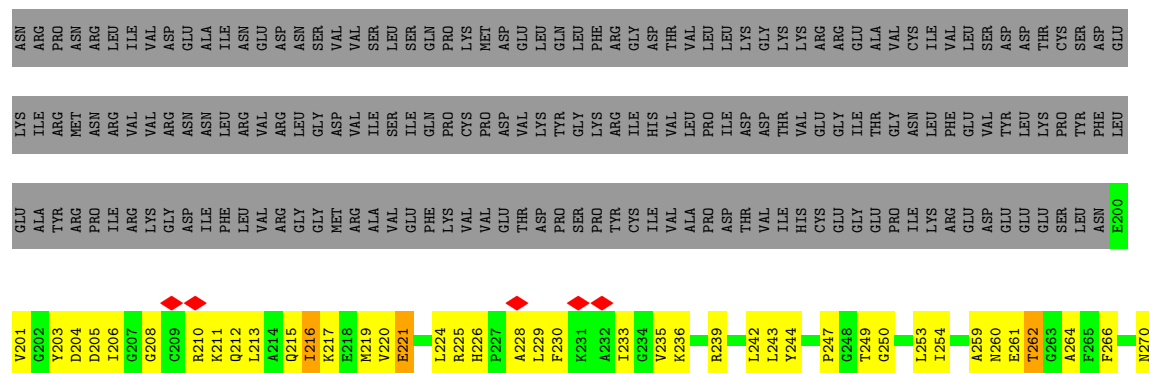


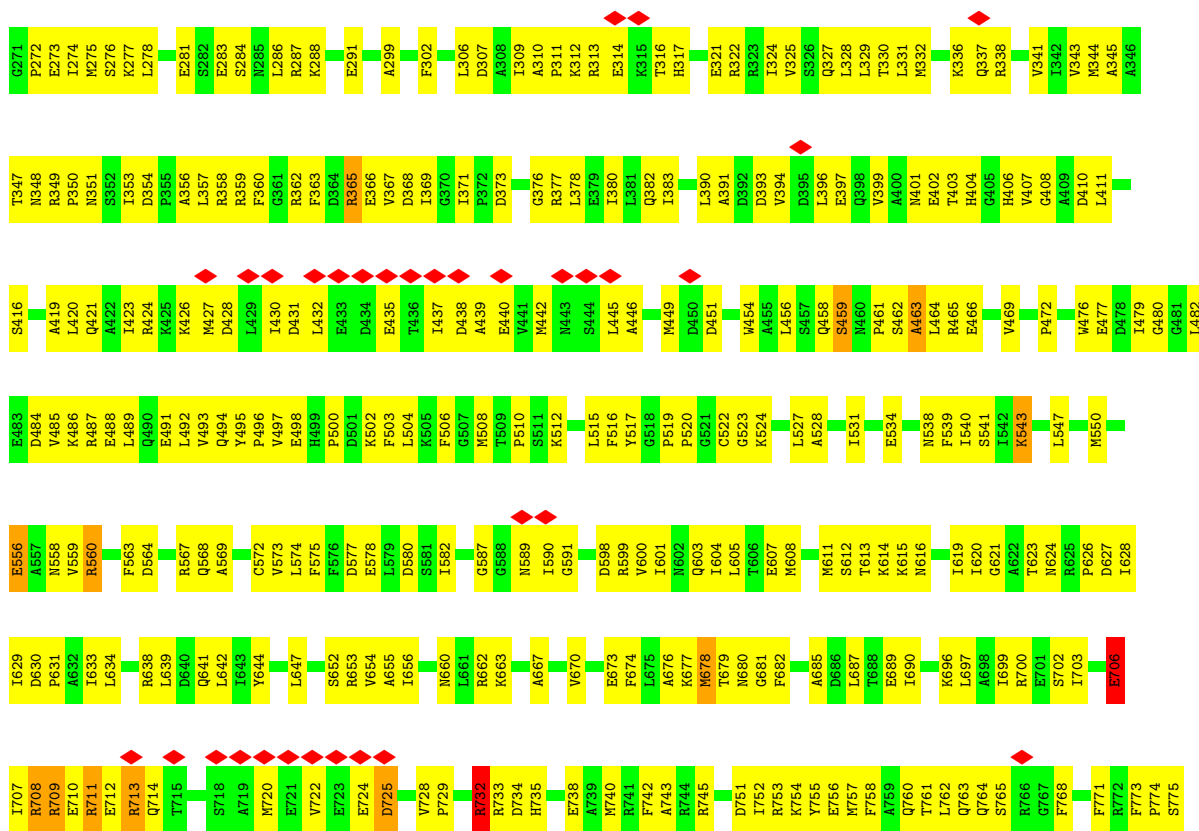
• Molecule 1: Transitional endoplasmic reticulum ATPase



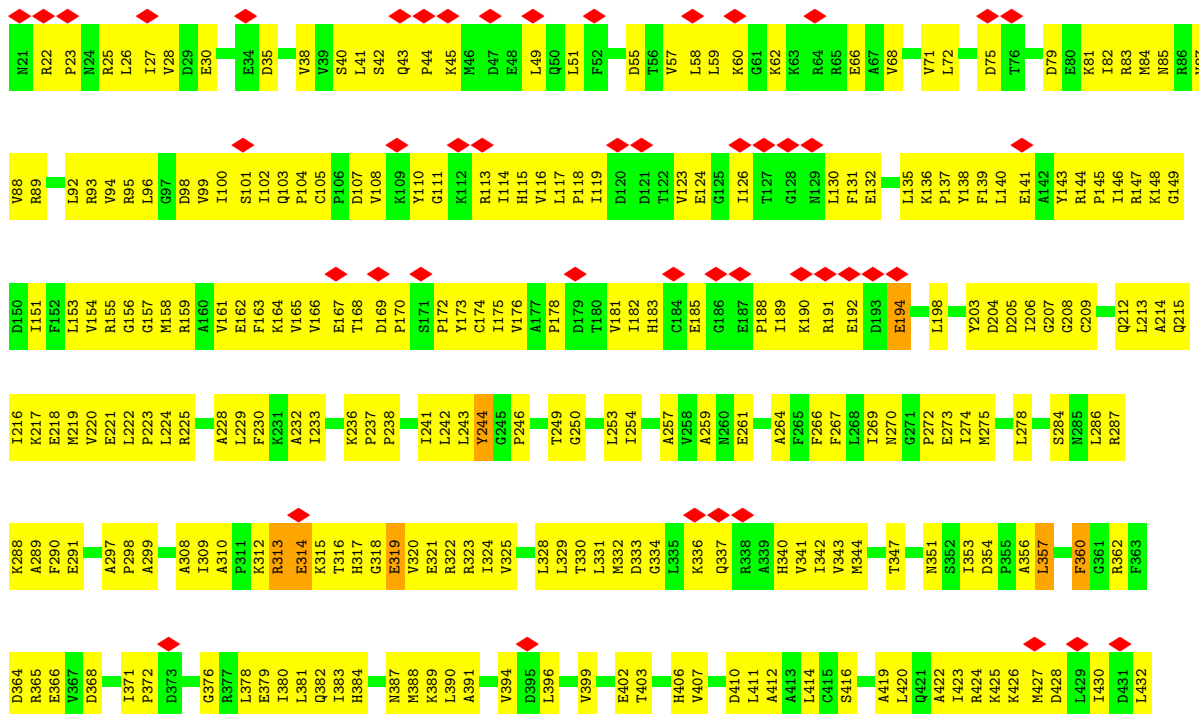


• Molecule 1: Transitional endoplasmic reticulum ATPase

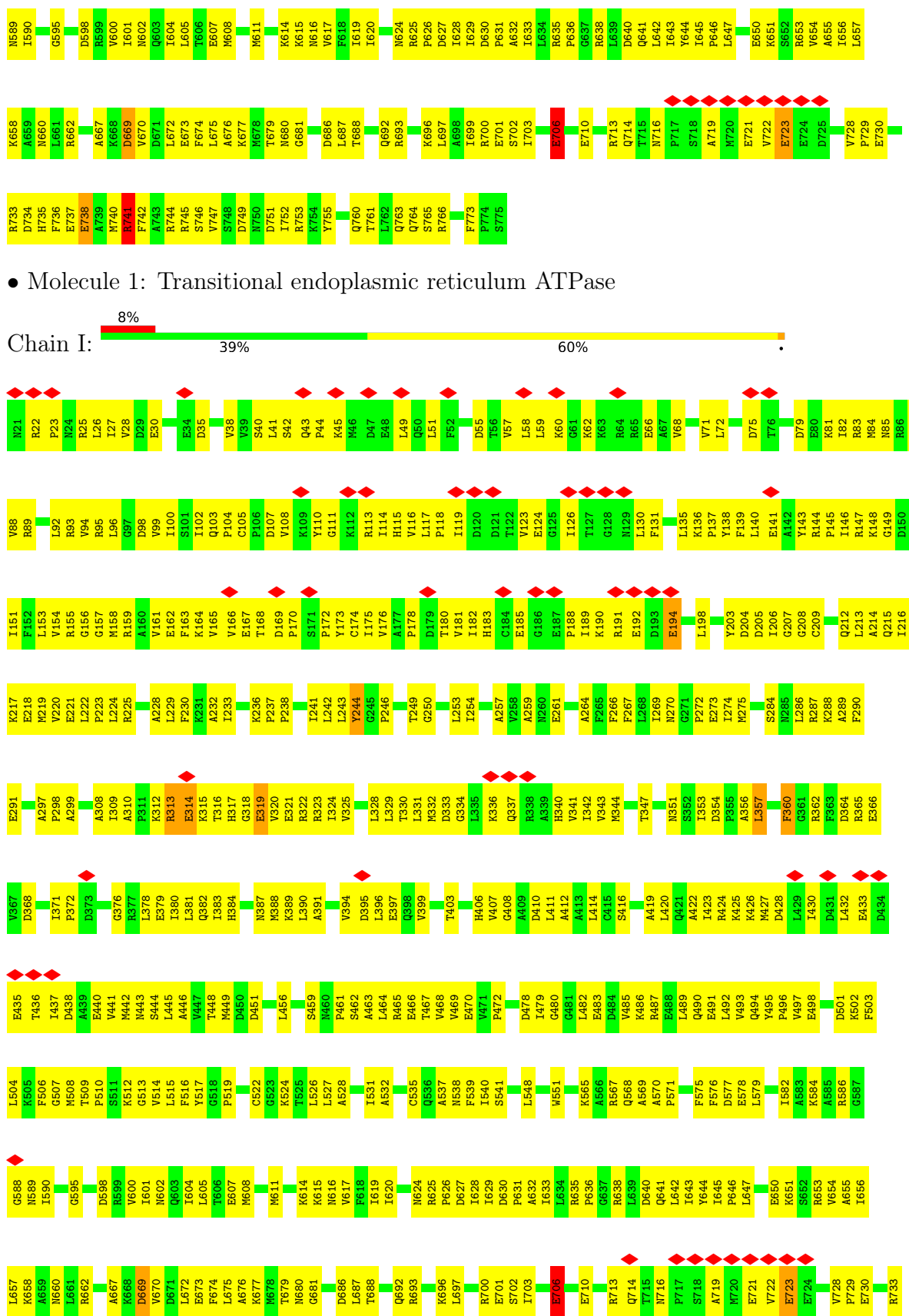




• Molecule 1: Transitional endoplasmic reticulum ATPase

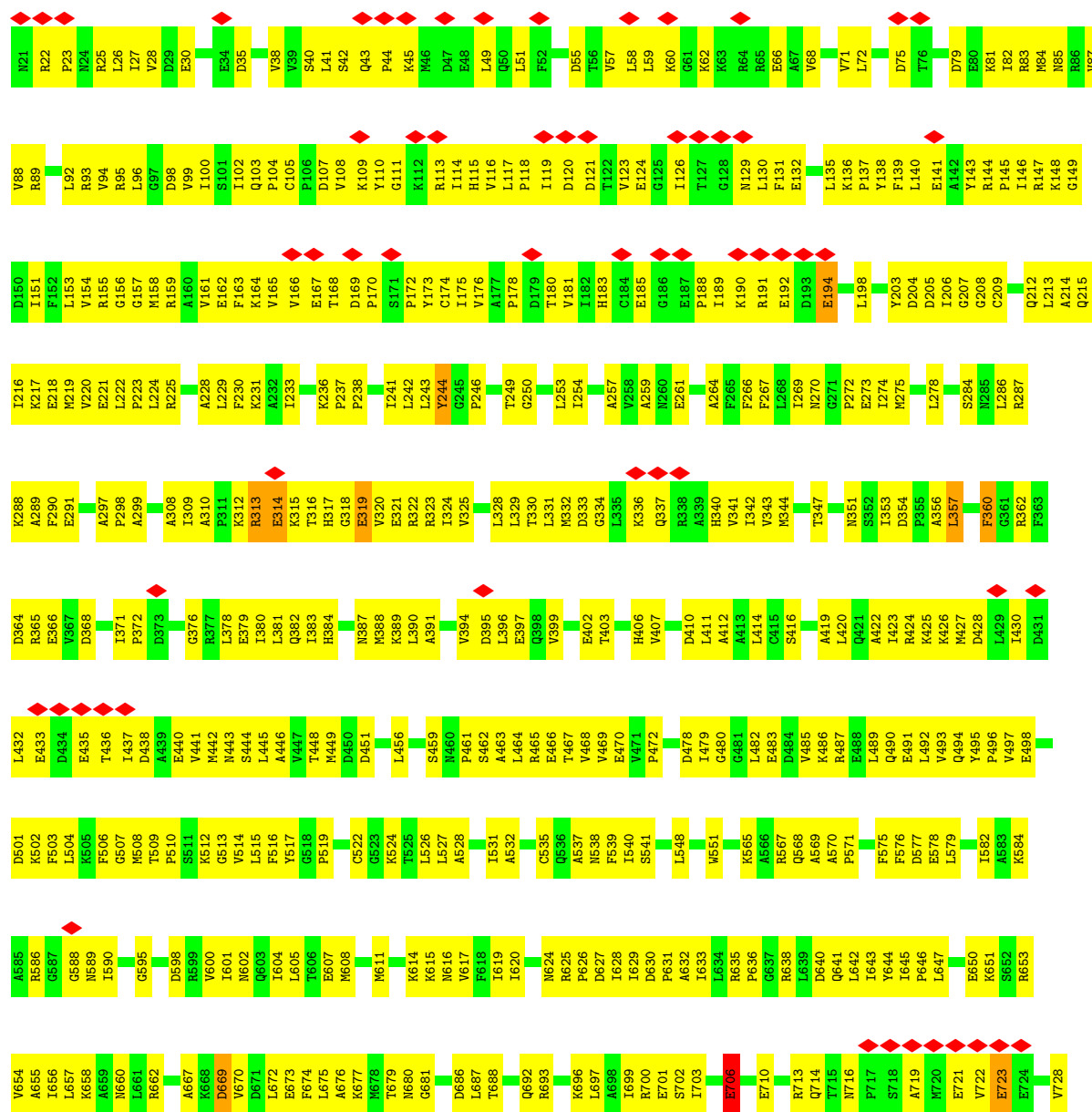






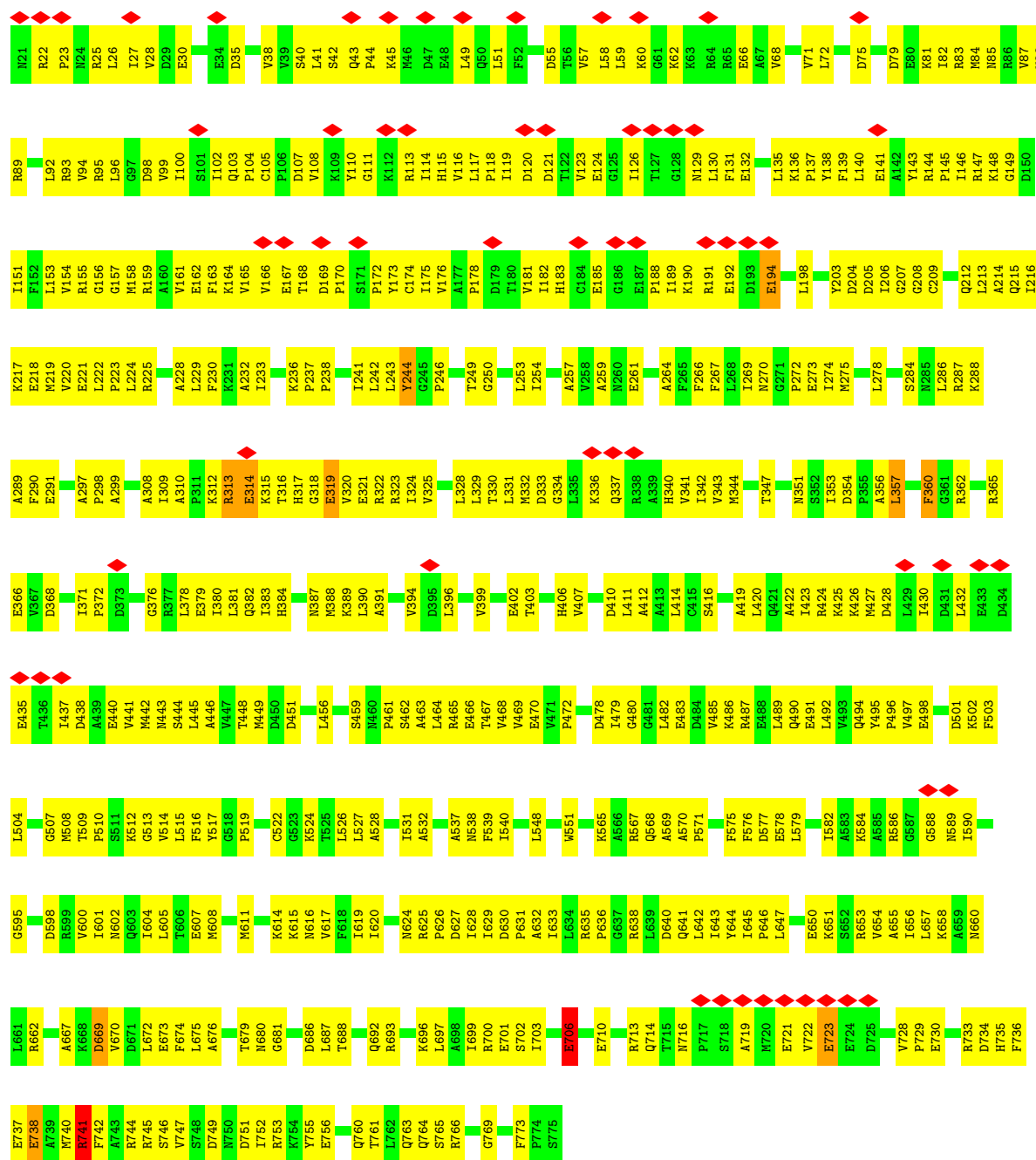


• Molecule 1: Transitional endoplasmic reticulum ATPase

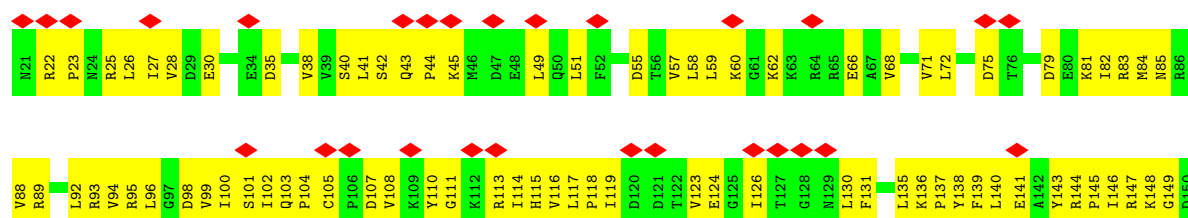


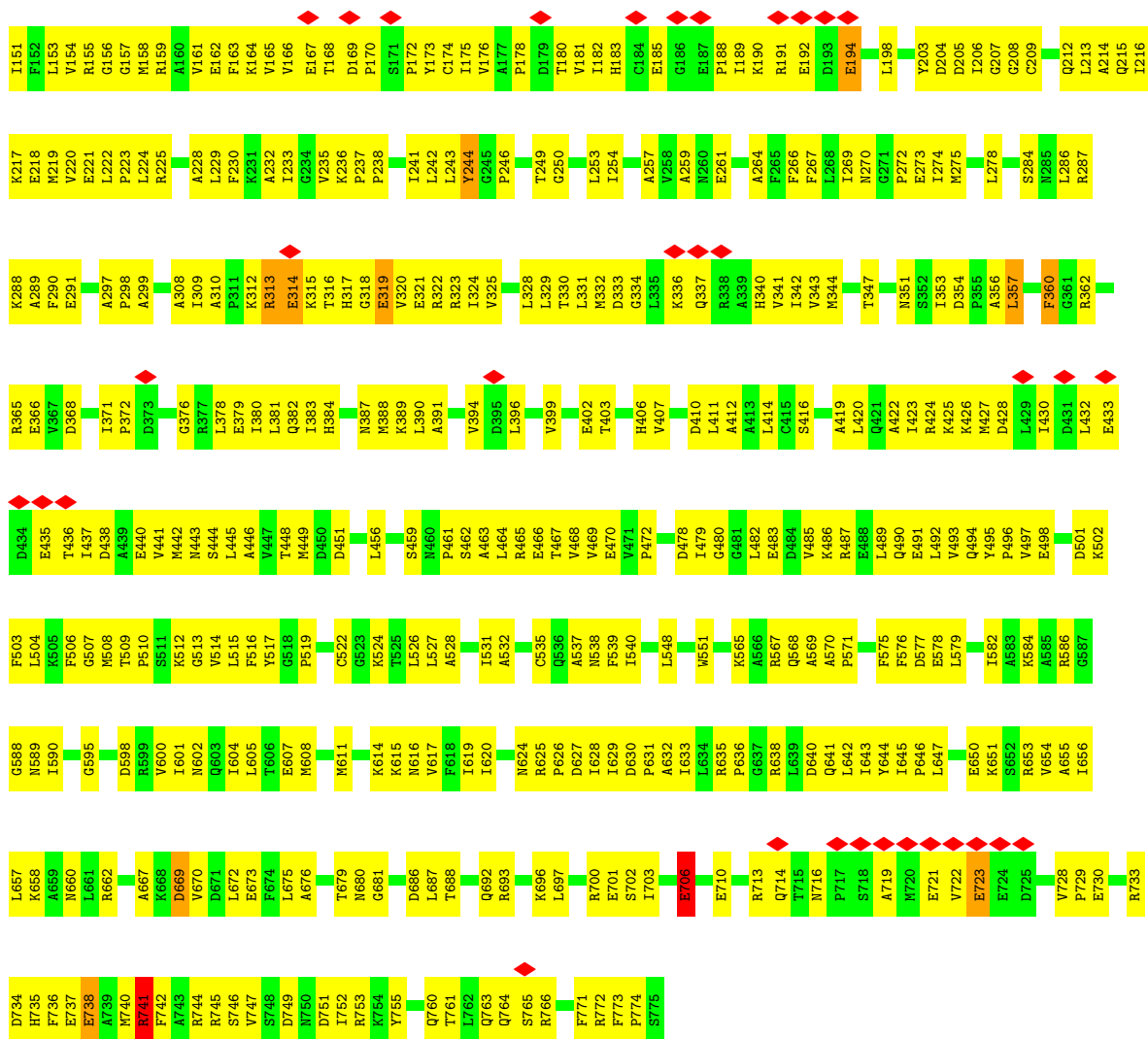
• Molecule 1: Transitional endoplasmic reticulum ATPase



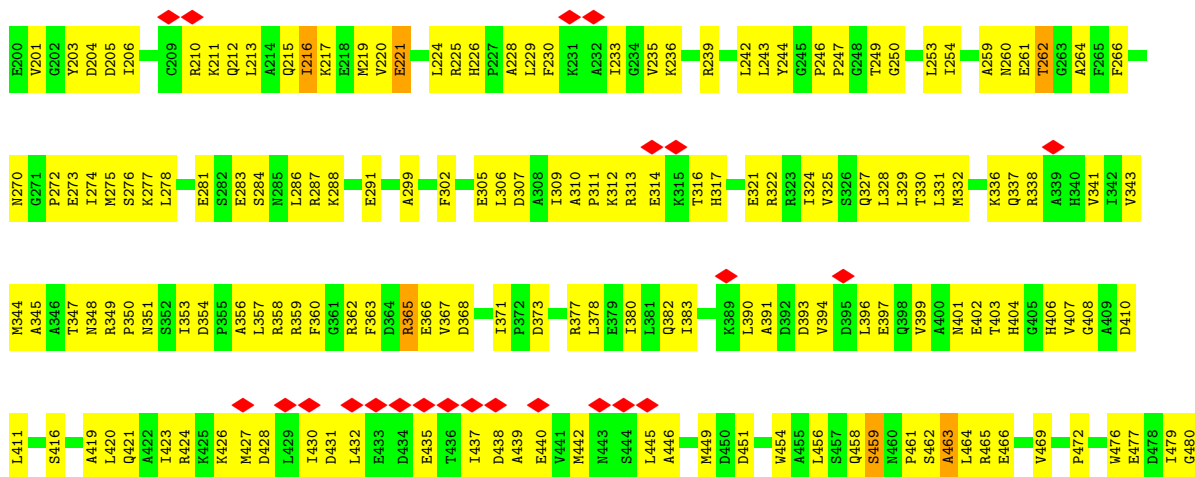
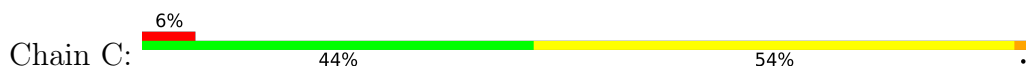


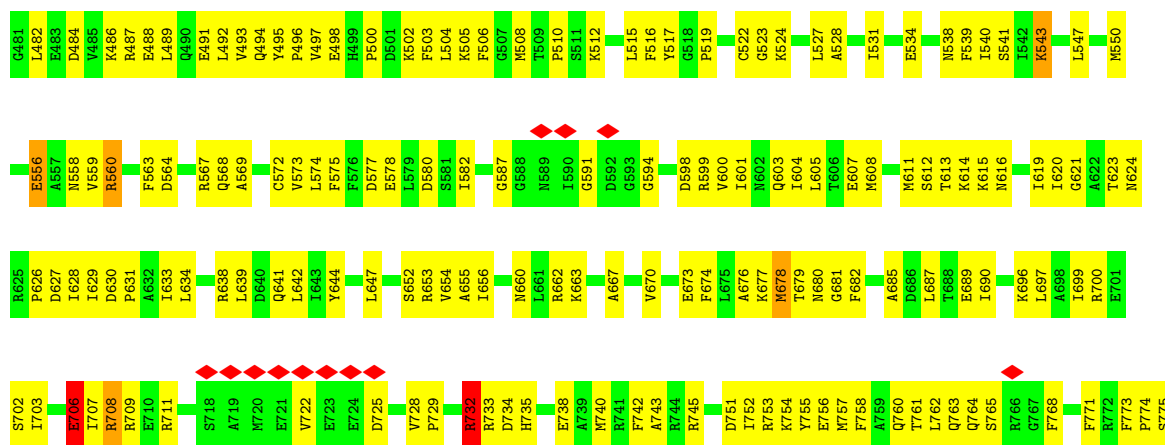
• Molecule 1: Transitional endoplasmic reticulum ATPase



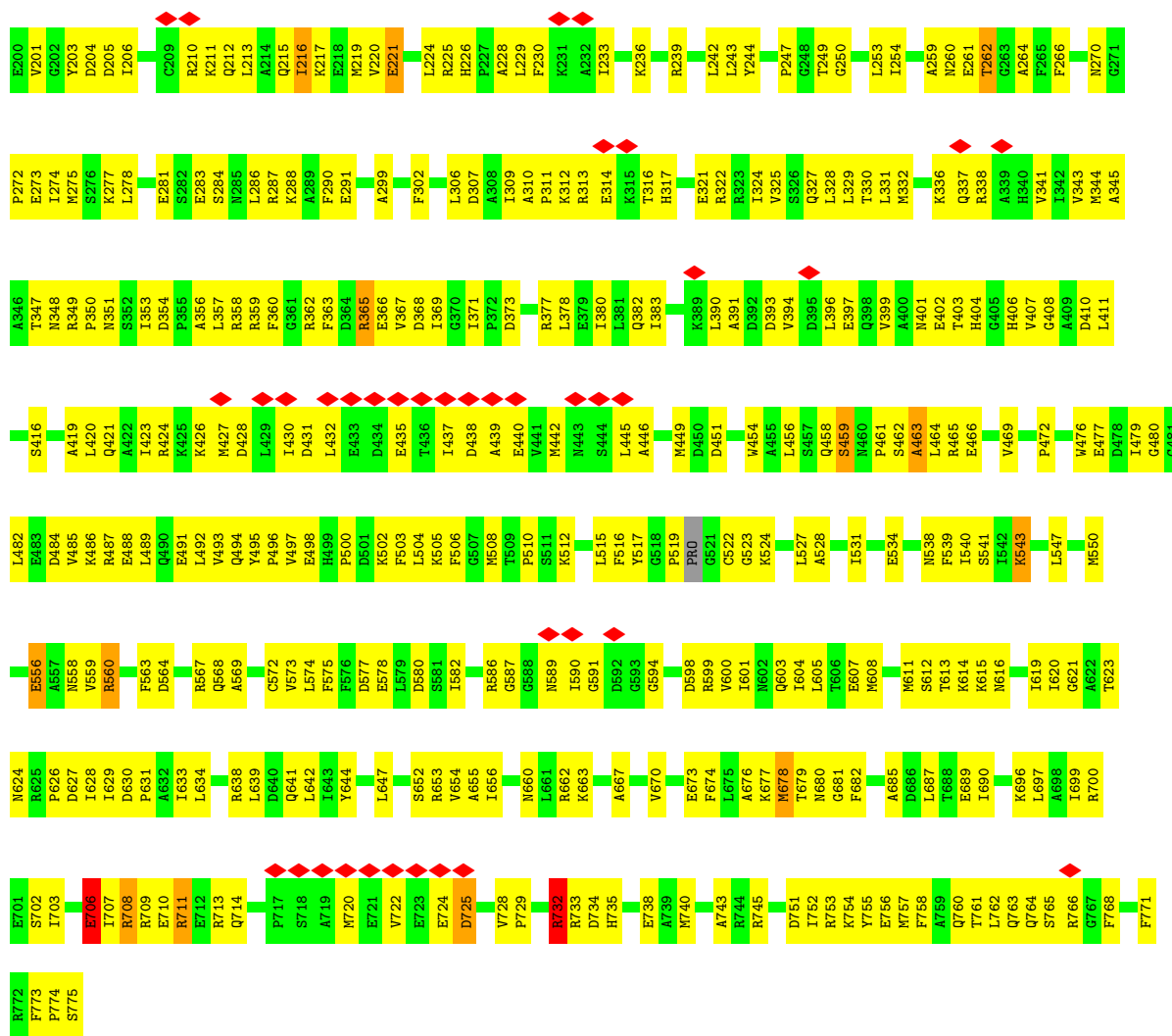
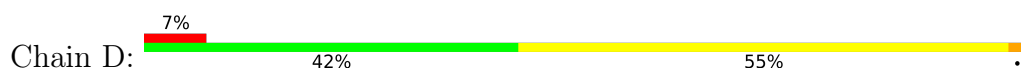


• Molecule 2: Transitional endoplasmic reticulum ATPase





• 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 ($\text{\AA}$)	531.2, 531.2, 531.2	wwPDB
Map dimensions	640, 640, 640	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	0.83000004, 0.83000004, 0.83000004	Depositor

5 Model quality

5.1 Standard geometry

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	0.17	0/4570	0.49	5/6167 (0.1%)
1	B	0.16	0/4570	0.49	5/6167 (0.1%)
1	E	0.17	0/4570	0.49	5/6167 (0.1%)
1	F	0.18	0/4570	0.51	7/6167 (0.1%)
1	G	0.15	0/6024	0.46	2/8134 (0.0%)
1	H	0.15	0/6024	0.46	2/8134 (0.0%)
1	I	0.15	0/6024	0.46	2/8134 (0.0%)
1	J	0.15	0/6024	0.45	2/8134 (0.0%)
1	K	0.15	0/6024	0.45	2/8134 (0.0%)
1	L	0.15	0/6024	0.45	2/8134 (0.0%)
2	C	0.16	0/4566	0.48	5/6163 (0.1%)
3	D	0.17	0/4561	0.49	5/6152 (0.1%)
All	All	0.16	0/63551	0.47	44/85787 (0.1%)

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 (44) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	711	ARG	CB-CA-C	-9.19	95.53	110.79
1	E	711	ARG	CB-CA-C	-9.19	95.53	110.79
1	A	711	ARG	CB-CA-C	-9.19	95.53	110.79
3	D	711	ARG	CB-CA-C	-9.19	95.53	110.79
1	B	711	ARG	CB-CA-C	-9.17	95.56	110.79
1	F	706	GLU	CA-CB-CG	8.65	131.41	114.10
2	C	706	GLU	CA-CB-CG	8.64	131.39	114.10
1	E	706	GLU	CA-CB-CG	8.64	131.37	114.10
1	A	706	GLU	CA-CB-CG	8.63	131.35	114.10
1	B	706	GLU	CA-CB-CG	8.63	131.35	114.10
3	D	706	GLU	CA-CB-CG	8.62	131.34	114.10
1	G	706	GLU	CA-CB-CG	8.01	130.12	114.10
1	I	706	GLU	CA-CB-CG	8.00	130.11	114.10
1	H	706	GLU	CA-CB-CG	8.00	130.10	114.10
1	J	706	GLU	CA-CB-CG	7.98	130.07	114.10
1	L	706	GLU	CA-CB-CG	7.98	130.06	114.10
1	K	706	GLU	CA-CB-CG	7.97	130.04	114.10
1	F	711	ARG	CB-CA-C	-7.02	95.52	110.32
1	F	713	ARG	CA-C-N	-6.76	108.62	121.54
1	F	713	ARG	C-N-CA	-6.76	108.62	121.54
1	F	732	ARG	CB-CG-CD	6.61	126.50	111.30
1	E	732	ARG	CB-CG-CD	6.61	126.49	111.30
1	B	732	ARG	CB-CG-CD	6.60	126.49	111.30
2	C	732	ARG	CB-CG-CD	6.60	126.48	111.30
3	D	732	ARG	CB-CG-CD	6.59	126.46	111.30
1	A	732	ARG	CB-CG-CD	6.58	126.44	111.30
3	D	706	GLU	CB-CG-CD	6.07	122.92	112.60
1	E	706	GLU	CB-CG-CD	6.07	122.92	112.60
1	A	706	GLU	CB-CG-CD	6.06	122.90	112.60
2	C	706	GLU	CB-CG-CD	6.05	122.89	112.60
1	F	706	GLU	CB-CG-CD	6.04	122.87	112.60
1	B	706	GLU	CB-CG-CD	6.03	122.85	112.60
3	D	732	ARG	CA-CB-CG	-5.30	103.50	114.10
1	A	732	ARG	CA-CB-CG	-5.30	103.50	114.10
1	B	732	ARG	CA-CB-CG	-5.29	103.53	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	732	ARG	CA-CB-CG	-5.29	103.53	114.10
1	E	732	ARG	CA-CB-CG	-5.28	103.53	114.10
2	C	732	ARG	CA-CB-CG	-5.28	103.55	114.10
1	K	706	GLU	CB-CG-CD	5.24	121.50	112.60
1	G	706	GLU	CB-CG-CD	5.22	121.47	112.60
1	J	706	GLU	CB-CG-CD	5.22	121.47	112.60
1	I	706	GLU	CB-CG-CD	5.20	121.44	112.60
1	H	706	GLU	CB-CG-CD	5.20	121.44	112.60
1	L	706	GLU	CB-CG-CD	5.20	121.44	112.60

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 ⓘ

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	433	0
1	B	4494	0	4520	437	0
1	E	4494	0	4520	438	0
1	F	4494	0	4520	442	0
1	G	5925	0	5974	608	0
1	H	5925	0	5974	616	0
1	I	5925	0	5974	629	0
1	J	5925	0	5974	617	0
1	K	5925	0	5974	609	0
1	L	5925	0	5974	615	0
2	C	4490	0	4516	427	0
3	D	4487	0	4512	445	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
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	5787	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 46.

All (5787) 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: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
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:219:MET:HE2	1:J:365:ARG:HD3	1.10	1.08
1:J:461:PRO:HA	1:J:462:SER:HB3	1.21	1.08
1:G:219:MET:HE2	1:G:365:ARG:HD3	1.10	1.07
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:I:219:MET:HE2	1:I:365:ARG:HD3	1.10	1.07
1:B:406:HIS:HD2	1:B:461:PRO:HB3	1.15	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:479:ILE:HD11	1:H:526:LEU:HB3	1.36	1.06
1:H:219:MET:HE2	1:H:365:ARG:HD3	1.10	1.06
1:J:153:LEU:HD22	1:J:198:LEU:HD22	1.38	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:K:219:MET:HE2	1:K:365:ARG:HD3	1.10	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
1:L:219:MET:HE2	1:L:365:ARG:HD3	1.10	1.04
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:A:696:LYS:HB2	1:F:508:MET:HE1	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
3:D:678:MET:HA	3:D:678:MET:HE3	1.43	1.00
1:G:716:ASN:HB2	1:G:719:ALA:HB2	1.44	1.00
2:C:678:MET:HA	2:C:678:MET:HE3	1.43	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
1:B:678:MET:HA	1:B:678:MET:HE3	1.43	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:E:219:MET:HE2	1:E:365:ARG:HH21	1.24	1.00
1:J:270:ASN:HB3	1:J:273:GLU:HB2	1.42	1.00
2:C:219:MET:HE2	2:C:365:ARG:HH21	1.24	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
1:G:236:LYS:NZ	1:G:337:GLN:OE1	1.94	0.99
1:E:678:MET:HA	1:E:678:MET:HE3	1.43	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:F:219:MET:HE2	1:F:365:ARG:HH21	1.24	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:F:678:MET:HA	1:F:678:MET:HE3	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:678:MET:HA	1:A:678:MET:HE3	1.43	0.99
3:D:219:MET:HE2	3:D:365:ARG:HH21	1.24	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
2:C:508:MET:HE1	3:D:696:LYS:HB2	1.39	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:B:219:MET:HE2	1:B:365:ARG:HH21	1.24	0.97
2:C:406:HIS:CD2	2:C:461:PRO:HB3	1.98	0.97
1:A:219:MET:HE2	1:A:365:ARG:HH21	1.24	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:H:508:MET:HE1	1:I:696:LYS:HB2	1.44	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:A:508:MET:HE1	1:B:696:LYS:HB2	1.51	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:E:508:MET:HE1	1:F:696:LYS:HB2	1.51	0.91
1:G:94:VAL:HG11	1:G:100:ILE:HG21	1.51	0.91
1:B:508:MET:HE1	2:C:696:LYS:HB2	1.48	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
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
3:D:508:MET:HE1	1:E:696:LYS:HB2	1.52	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:K:508:MET:HE1	1:L:696:LYS:HB2	1.53	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
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:696:LYS:HB2	1:L:508:MET:HE1	1.56	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:I:508:MET:HE1	1:J:696:LYS:HB2	1.58	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: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:604:ILE:HG22	1:G:608:MET:HE2	1.59	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:L:604:ILE:HG22	1:L:608:MET:HE2	1.59	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:461:PRO:HA	1:H:462:SER:CB	2.01	0.84
1:H:604:ILE:HG22	1:H:608:MET:HE2	1.59	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
1:H:157:GLY:H	1:H:389:LYS:HZ3	1.25	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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:571:PRO:HA	1:K:616:ASN:HB3	1.59	0.82
1:I:604:ILE:HG22	1:I:608:MET:HE2	1.59	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:G:157:GLY:H	1:G:389:LYS:HZ3	1.25	0.82
1:K:604:ILE:HG22	1:K:608:MET:HE2	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:604:ILE:HG22	1:J:608:MET:HE2	1.59	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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:A:360:PHE:HZ	1:B:462:SER:HG	1.29	0.79
2:C:210:ARG:O	2:C:211:LYS:HG2	1.83	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
1:F:760:GLN:HG2	1:I:760:GLN:OE1	1.83	0.79
1:G:502:LYS:HZ3	1:H:703:ILE:HA	1.47	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:G:508:MET:HE1	1:H:696:LYS:HB2	1.62	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:502:LYS:HZ3	1:J:703:ILE:HA	1.47	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:243:LEU:HD11	1:J:344:MET:HE2	1.66	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
1:I:243:LEU:HD11	1:I:344:MET:HE2	1.66	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:L:157:GLY:H	1:L:389:LYS:HZ3	1.29	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:H:243:LEU:HD11	1:H:344:MET:HE2	1.66	0.77
1:K:243:LEU:HD11	1:K:344:MET:HE2	1.66	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:H:84:MET:HE3	1:H:88:VAL:HG23	1.68	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:84:MET:HE3	1:G:88:VAL:HG23	1.68	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
1:L:243:LEU:HD11	1:L:344:MET:HE2	1.66	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:K:190:LYS:NZ	1:K:191:ARG:O	2.15	0.76
1:L:84:MET:HE3	1:L:88:VAL:HG23	1.68	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:84:MET:HE3	1:K:88:VAL:HG23	1.68	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:J:508:MET:HE1	1:K:696:LYS:HB2	1.68	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:G:243:LEU:HD11	1:G:344:MET:HE2	1.66	0.75
1:I:84:MET:HE3	1:I:88:VAL:HG23	1.68	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:J:157:GLY:H	1:J:389:LYS:HZ3	1.32	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:J:84:MET:HE3	1:J:88:VAL:HG23	1.68	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:A:768:PHE:CD1	1:B:740:MET:HE3	2.23	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:J:26:LEU:HA	1:J:82:ILE:CD1	2.17	0.74
1:B:760:GLN:HB3	1:G:760:GLN:HE22	1.52	0.73
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:502:LYS:HZ3	1:K:703:ILE:HA	1.53	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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: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
3:D:360:PHE:HZ	1:E:462:SER:HG	1.39	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:461:PRO:HA	1:K:462:SER:CB	2.01	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
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: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: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
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
1:K:94:VAL:HG11	1:K:100:ILE:CG2	2.22	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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: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:E:768:PHE:CD1	1:F:740:MET:HE3	2.27	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:678:MET:HE3	1:E:678:MET:CA	2.22	0.69
1:E:771:PHE:HE1	1:F:678:MET:HG3	1.57	0.69
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
1:B:678:MET:HE3	1:B:678:MET:CA	2.22	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:679:THR:HG22	1:F:740:MET:HE1	1.75	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: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:E:679:THR:HG22	1:E:740:MET:HE1	1.75	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:I:427:MET:HE2	1:I:437:ILE:HD13	1.75	0.69
1:J:390:LEU:HG	1:J:394:VAL:CG2	2.23	0.69
1:J:427:MET:HE2	1:J:437:ILE:HD13	1.75	0.69
1:K:206:ILE:HD11	1:K:253:LEU:O	1.92	0.69
1:A:679:THR:HG22	1:A:740:MET:HE1	1.75	0.68
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
3:D:678:MET:HE3	3:D:678:MET:CA	2.22	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
2:C:678:MET:HE3	2:C:678:MET:CA	2.22	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
1:K:502:LYS:HZ2	1:L:706:GLU:HG3	1.57	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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:26:LEU:CD2	1:G:100:ILE:HG13	2.24	0.68
1:H:270:ASN:HB3	1:H:273:GLU:CB	2.20	0.68
1:H:427:MET:HE2	1:H:437:ILE:HD13	1.75	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
3:D:678:MET:HA	3:D:678:MET:CE	2.22	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
3:D:706:GLU:OE1	3:D:706:GLU:C	2.37	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:B:678:MET:HA	1:B:678:MET:CE	2.22	0.67
1:B:679:THR:HG22	1:B:740:MET:HE1	1.75	0.67
1:B:706:GLU:C	1:B:706:GLU:OE1	2.37	0.67
2:C:706:GLU:C	2:C:706:GLU:OE1	2.38	0.67
3:D:679:THR:HG22	3:D:740:MET:HE1	1.75	0.67
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:K:219:MET:HE2	1:K:365:ARG:HH11	1.60	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:A:706:GLU:OE1	1:A:706:GLU:C	2.37	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:706:GLU:C	1:E:706:GLU:OE1	2.37	0.67
1:E:774:PRO:HD3	1:F:674:PHE:CE2	2.30	0.67
1:I:693:ARG:HD3	1:I:742:PHE:CD1	2.27	0.67
1:K:243:LEU:HD11	1:K:344:MET:CE	2.23	0.67
1:K:427:MET:HE2	1:K:437:ILE:HD13	1.75	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:219:MET:HE2	1:L:365:ARG:HH11	1.60	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:679:THR:HG22	2:C:740:MET:HE1	1.75	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:F:706:GLU:C	1:F:706:GLU:OE1	2.37	0.67
1:G:119:ILE:CG2	1:G:162:GLU:HG3	2.24	0.67
1:G:502:LYS:HZ2	1:H:706:GLU:HG3	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:84:MET:HE1	1:H:92:LEU:HD12	1.77	0.67
1:H:219:MET:HE2	1:H:365:ARG:HH11	1.60	0.67
1:I:219:MET:HE2	1:I:365:ARG:HH11	1.60	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
1:A:740:MET:HE3	1:F:768:PHE:CE1	2.29	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:G:219:MET:HE2	1:G:365:ARG:HH11	1.60	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:I:84:MET:HE1	1:I:92:LEU:HD12	1.77	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:G:84:MET:HE1	1:G:92:LEU:HD12	1.77	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
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
1:G:427:MET:HE2	1:G:437:ILE:HD13	1.75	0.67
1:L:136:LYS:HD3	1:L:139:PHE:HE2	1.59	0.67
1:L:427:MET:HE2	1:L:437:ILE:HD13	1.75	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:B:682:PHE:HE1	1:B:745:ARG:HG3	1.60	0.66
1:B:713:ARG:HD2	1:B:713:ARG:C	2.20	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:J:219:MET:HE2	1:J:365:ARG:HH11	1.60	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:K:502:LYS:HZ3	1:L:703:ILE:HA	1.59	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
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:J:84:MET:HE1	1:J:92:LEU:HD12	1.77	0.66
1:K:58:LEU:HD13	1:K:105:CYS:SG	2.35	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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
1:L:84:MET:HE1	1:L:92:LEU:HD12	1.77	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: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: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:598:ASP:OD2	1:G:601:ILE:HG12	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:693:ARG:HD3	1:H:742:PHE:CD1	2.27	0.65
1:I:502:LYS:HZ3	1:J:703:ILE:CA	2.09	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:L:738:GLU:OE1	1:L:738:GLU:HA	1.94	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
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:A:678:MET:HE3	1:A:678:MET:CA	2.22	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:L:84:MET:CE	1:L:88:VAL:HG23	2.27	0.65
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
1:A:678:MET:HA	1:A:678:MET:CE	2.21	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
1:E:491:GLU:OE2	1:F:700:ARG:HD3	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:678:MET:HA	1:E:678:MET:CE	2.22	0.65
1:G:84:MET:CE	1:G:88:VAL:HG23	2.27	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:I:502:LYS:HZ2	1:J:706:GLU:HG3	1.61	0.65
1:K:84:MET:HE1	1:K:92:LEU:HD12	1.77	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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:J:84:MET:CE	1:J:88:VAL:HG23	2.27	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
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
2:C:228:ALA:HB1	3:D:435:GLU:O	1.98	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
1:B:768:PHE:CD1	2:C:740:MET:HE3	2.32	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:43:GLN:CD	1:H:44:PRO:HD3	2.23	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: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:A:740:MET:HE3	1:F:768:PHE:CD1	2.32	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:I:43:GLN:CD	1:I:44:PRO:HD3	2.23	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:43:GLN:CD	1:K:44:PRO:HD3	2.23	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:A:768:PHE:CE1	1:B:740:MET:HE3	2.33	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: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:F:678:MET:HE3	1:F:678:MET:CA	2.22	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:43:GLN:CD	1:L:44:PRO:HD3	2.23	0.64
1:L:479:ILE:HD11	1:L:526:LEU:CB	2.19	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
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:J:43:GLN:CD	1:J:44:PRO:HD3	2.23	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:752:ILE:HG22	1:G:766:ARG:HH21	1.62	0.63
1:G:43:GLN:CD	1:G:44:PRO:HD3	2.23	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
2:C:771:PHE:CE1	3:D:678:MET:HG3	2.32	0.63
3:D:768:PHE:CD1	1:E:740:MET:HE3	2.34	0.63
1:F:206:ILE:HG21	1:F:213:LEU:HD22	1.79	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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
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: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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:C:482:LEU:HD13	2:C:527:LEU:HD11	1.81	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
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:219:MET:HE2	1:F:365:ARG:NH2	2.08	0.62
1:F:377:ARG:CZ	1:F:404:HIS:HA	2.30	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:L:605:LEU:CD2	1:L:633:ILE:HD13	2.22	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:594:GLY:HA2	1:B:586:ARG:C	2.25	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: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
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:I:427:MET:HE2	1:I:437:ILE:CD1	2.29	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
2:C:312:LYS:HB3	2:C:316:THR:OG1	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:L:427:MET:HE2	1:L:437:ILE:CD1	2.30	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:71:VAL:C	1:H:72:LEU:HD12	2.25	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
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:71:VAL:C	1:L:72:LEU:HD12	2.25	0.61
1:L:627:ASP:OD1	1:L:628:ILE:HG23	1.99	0.61
1:L:706:GLU:OE1	1:L:706:GLU:C	2.43	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:219:MET:HE2	3:D:365:ARG:NH2	2.08	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:243:LEU:HD11	1:F:344:MET:CE	2.31	0.61
1:G:71:VAL:C	1:G:72:LEU:HD12	2.25	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:H:427:MET:HE2	1:H:437:ILE:CD1	2.29	0.61
1:I:153:LEU:HD22	1:I:198:LEU:CD2	2.23	0.61
1:J:706:GLU:C	1:J:706:GLU:OE1	2.43	0.61
1:K:51:LEU:CD1	1:K:104:PRO:HB3	2.31	0.61
1:K:706:GLU:C	1:K:706:GLU:OE1	2.43	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:HZ3	1:H:703:ILE:CA	2.13	0.61
1:J:427:MET:HE2	1:J:437:ILE:CD1	2.30	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:K:71:VAL:C	1:K:72:LEU:HD12	2.25	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
3:D:728:VAL:HG13	3:D:728:VAL:O	1.99	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
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:G:706:GLU:C	1:G:706:GLU:OE1	2.43	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
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:G:427:MET:HE2	1:G:437:ILE:CD1	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:I:706:GLU:OE1	1:I:706:GLU:C	2.43	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: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:H:686:ASP:OD1	1:H:746:SER:OG	2.18	0.61
1:H:706:GLU:C	1:H:706:GLU:OE1	2.43	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:A:219:MET:HE1	1:A:367:VAL:CG2	2.31	0.60
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:I:318:GLY:O	1:I:319:GLU:HB2	1.99	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:219:MET:HE1	1:B:367:VAL:CG2	2.31	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:219:MET:HE1	3:D:367:VAL:CG2	2.31	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:71:VAL:C	1:J:72:LEU:HD12	2.25	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:154:VAL:HG21	1:L:163:PHE:CE2	2.36	0.60
1:A:332:MET:HE1	1:A:343:VAL:HG11	1.83	0.60
1:B:332:MET:HE1	1:B:343:VAL:HG11	1.83	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:I:71:VAL:C	1:I:72:LEU:HD12	2.25	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:502:LYS:HZ2	1:K:706:GLU:HG3	1.67	0.60
1:J:602:ASN:HD21	1:K:548:LEU:HB2	1.64	0.60
1:J:686:ASP:OD1	1:J:746:SER:OG	2.18	0.60
1:B:244:TYR:HE2	1:B:366:GLU:HB3	1.66	0.60
2:C:219:MET:HE1	2:C:367:VAL:CG2	2.31	0.60
2:C:396:LEU:HA	2:C:399:VAL:HG12	1.84	0.60
1:E:219:MET:HE1	1:E:367:VAL:CG2	2.31	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:K:427:MET:HE2	1:K:437:ILE:CD1	2.30	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
2:C:332:MET:HE1	2:C:343:VAL:HG11	1.83	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: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:E:728:VAL:O	1:E:728:VAL:HG13	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:332:MET:HE1	1:F:343:VAL:HG11	1.83	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
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
3:D:745:ARG:NH1	1:L:745:ARG:HH12	1.99	0.60
1:E:215:GLN:HG2	1:E:219:MET:HE3	1.84	0.60
1:F:219:MET:HE1	1:F:367:VAL:CG2	2.31	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:215:GLN:HG2	3:D:219:MET:HE3	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:640:ASP:O	1:G:642:LEU:HD12	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:L:686:ASP:OD1	1:L:746:SER:OG	2.18	0.59
1:B:396:LEU:HA	1:B:399:VAL:HG12	1.84	0.59
2:C:215:GLN:HG2	2:C:219:MET:HE3	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: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:215:GLN:HG2	1:F:219:MET:HE3	1.84	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:215:GLN:HG2	1:A:219:MET:HE3	1.84	0.59
1:A:464:LEU:HD21	1:F:613:THR:HG21	1.84	0.59
1:B:215:GLN:HG2	1:B:219:MET:HE3	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
2:C:722:VAL:HG13	2:C:722:VAL:O	2.02	0.59
3:D:332:MET:HE1	3:D:343:VAL:HG11	1.83	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
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:314:GLU:C	1:I:316:THR:H	2.11	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: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: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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:469:VAL:CG1	1:J:538:ASN:HB3	2.32	0.59
1:K:686:ASP:OD1	1:K:746:SER:OG	2.18	0.59
1:K:751:ASP:O	1:K:755:TYR:CD1	2.56	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
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:640:ASP:O	1:I:642:LEU:HD12	2.02	0.59
1:J:314:GLU:C	1:J:316:THR:H	2.11	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: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:243:LEU:HD11	3:D:344:MET:HE2	1.85	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:243:LEU:HD11	1:E:344:MET:HE2	1.85	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:G:420:LEU:HD11	1:L:230:PHE:CZ	2.38	0.59
1:H:156:GLY:HA2	1:H:389:LYS:HZ2	1.67	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: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:332:MET:HE1	1:E:343:VAL:HG11	1.83	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:G:502:LYS:NZ	1:H:706:GLU:HG3	2.17	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:A:722:VAL:O	1:A:722:VAL:HG13	2.02	0.58
1:F:390:LEU:HG	1:F:394:VAL:HG23	1.85	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:K:314:GLU:C	1:K:316:THR:H	2.11	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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: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:219:MET:CE	2:C:365:ARG:HH21	2.10	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:243:LEU:HD11	1:A:344:MET:HE2	1.85	0.58
1:A:421:GLN:NE2	1:A:451:ASP:OD1	2.36	0.58
1:A:563:PHE:HD2	1:A:611:MET:HE2	1.68	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:156:GLY:HA2	1:G:389:LYS:HZ2	1.67	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: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:314:GLU:C	1:H:316:THR:H	2.11	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:219:MET:HE2	2:C:365:ARG:NH2	2.08	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
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: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:243:LEU:HD11	2:C:344:MET:HE2	1.85	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:243:LEU:HD11	1:F:344:MET:HE2	1.85	0.58
1:F:587:GLY:HA3	1:F:591:GLY:HA2	1.86	0.58
1:G:314:GLU:C	1:G:316:THR:H	2.11	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:314:GLU:C	1:L:316:THR:H	2.11	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
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:B:682:PHE:CE2	1:B:690:ILE:HD11	2.39	0.57
1:E:219:MET:HE2	1:E:365:ARG:NH2	2.08	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:243:LEU:HD11	1:B:344:MET:HE2	1.85	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
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:F:563:PHE:HD2	1:F:611:MET:HE2	1.68	0.57
1:F:678:MET:HA	1:F:678:MET:CE	2.21	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
3:D:563:PHE:HD2	3:D:611:MET:HE2	1.68	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:563:PHE:HD2	1:B:611:MET:HE2	1.68	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:502:LYS:HZ3	1:K:703:ILE:CA	2.18	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: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
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: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: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: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:F:760:GLN:HG2	1:I:760:GLN:CD	2.29	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:I:410:ASP:OD2	1:I:462:SER:OG	2.22	0.57
1:I:765:SER:C	1:I:766:ARG:HD3	2.30	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:L:605:LEU:HD23	1:L:608:MET:CE	2.35	0.57
2:C:563:PHE:HD2	2:C:611:MET:HE2	1.68	0.56
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:K:765:SER:C	1:K:766:ARG:HD3	2.30	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:L:765:SER:C	1:L:766:ARG:HD3	2.30	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
1:E:563:PHE:HD2	1:E:611:MET:HE2	1.68	0.56
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:H:765:SER:C	1:H:766:ARG:HD3	2.30	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: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:E:768:PHE:CE1	1:F:740:MET:HE3	2.40	0.56
1:G:651:LYS:HD2	1:G:651:LYS:N	2.20	0.56
1:G:765:SER:C	1:G:766:ARG:HD3	2.30	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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
2:C:768:PHE:CD1	3:D:740:MET:HE3	2.39	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
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:J:765:SER:C	1:J:766:ARG:HD3	2.30	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:219:MET:CE	1:B:365:ARG:HH21	2.10	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: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:528:ALA:O	2:C:531:ILE:HG22	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
2:C:678:MET:HA	2:C:678:MET:CE	2.21	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:F:712:GLU:C	1:F:714:GLN:H	2.14	0.56
1:G:590:ILE:H	1:G:590:ILE:HD12	1.71	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
1:A:476:TRP:CD2	1:A:486:LYS:HE2	2.41	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:L:156:GLY:HA2	1:L:389:LYS:HZ2	1.70	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:I:686:ASP:OD1	1:I:746:SER:OG	2.18	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
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:J:156:GLY:HA2	1:J:389:LYS:HZ2	1.72	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:275:MET:HE1	1:I:321:GLU:OE1	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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:L:244:TYR:HA	1:L:347:THR:O	2.07	0.55
1:L:275:MET:HE1	1:L:321:GLU:OE1	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:728:VAL:O	1:K:728:VAL:HG13	2.06	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:B:512:LYS:HZ3	1:B:612:SER:HA	1.71	0.54
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:275:MET:HE1	1:G:321:GLU:OE1	2.07	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: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:219:MET:HE2	1:B:365:ARG:NH2	2.08	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: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:508:MET:HE1	1:I:696:LYS:CB	2.29	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:275:MET:HE1	1:K:321:GLU:OE1	2.07	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
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:275:MET:HE1	1:J:321:GLU:OE1	2.07	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:F:512:LYS:HZ3	1:F:612:SER:HA	1.71	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:G:333:ASP:CG	1:G:362:ARG:HE	2.16	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
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:333:ASP:CG	1:H:362:ARG:HE	2.16	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:K:764:GLN:HB2	1:L:742:PHE:C	2.32	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
1:K:57:VAL:HG21	1:K:71:VAL:HG21	1.88	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:275:MET:HE1	1:H:321:GLU:OE1	2.07	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:L:119:ILE:HG22	1:L:162:GLU:HG3	1.89	0.54
1:L:333:ASP:CG	1:L:362:ARG:HE	2.16	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:512:LYS:HZ3	2:C:612:SER:HA	1.73	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: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:I:333:ASP:CG	1:I:362:ARG:HE	2.16	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
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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
3:D:219:MET:CE	3:D:365:ARG:HH21	2.10	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:E:512:LYS:HZ3	1:E:612:SER:HA	1.71	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: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: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
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:333:ASP:CG	1:K:362:ARG:HE	2.16	0.53
1:K:650:GLU:O	1:K:654:VAL:HG23	2.08	0.53
1:K:721:GLU:CD	1:K:721:GLU:H	2.17	0.53
1:A:439:ALA:O	1:A:442:MET:HG2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:E:708:ARG:O	1:E:708:ARG:HG2	1.98	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: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
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:J:333:ASP:CG	1:J:362:ARG:HE	2.16	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:512:LYS:HZ3	1:A:612:SER:HA	1.74	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:G:696:LYS:HB2	1:L:508:MET:CE	2.34	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:A:219:MET:CE	1:A:365:ARG:HH21	2.10	0.52
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:508:MET:CE	1:L:696:LYS:HB2	2.34	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: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: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
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:F:712:GLU:C	1:F:714:GLN:N	2.66	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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
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: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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:462:SER:O	1:G:463:ALA:HB3	2.10	0.52
1:G:774:PRO:HD3	1:H:674:PHE:CD2	2.45	0.52
1:H:721:GLU:CD	1:H:721:GLU:H	2.17	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
1:J:84:MET:HE2	1:J:89:ARG:CA	2.40	0.52
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:L:721:GLU:H	1:L:721:GLU:CD	2.17	0.52
1:A:219:MET:HE2	1:A:365:ARG:NH2	2.08	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:I:51:LEU:HG	1:I:104:PRO:HB3	1.92	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:84:MET:HE2	1:K:89:ARG:CA	2.40	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
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:721:GLU:H	1:G:721:GLU:CD	2.17	0.52
1:G:734:ASP:OD1	1:G:735:HIS:N	2.43	0.52
1:H:84:MET:HE2	1:H:89:ARG:CA	2.39	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:84:MET:HE2	1:I:89:ARG:CA	2.40	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:502:LYS:NZ	1:K:706:GLU:HG3	2.24	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:462:SER:O	1:A:463:ALA:HB2	2.09	0.51
1:A:492:LEU:HD21	1:A:641:GLN:HG3	1.91	0.51
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:84:MET:HE2	1:G:89:ARG:CA	2.40	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:K:172:PRO:HG2	1:K:173:TYR:HD1	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:I:651:LYS:HD2	1:I:651:LYS:H	1.74	0.51
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:J:721:GLU:H	1:J:721:GLU:CD	2.17	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:84:MET:HE2	1:L:89:ARG:CA	2.39	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:408:GLY:HA3	4:F:801:ADP:N7	2.25	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
1:J:143:TYR:CE1	1:J:178:PRO:HD3	2.45	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:L:313:ARG:O	1:L:314:GLU:C	2.54	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
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:312:LYS:NZ	1:E:317:HIS:O	2.37	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:F:708:ARG:HG2	1:F:708:ARG:O	1.99	0.51
1:G:611:MET:HG3	1:G:611:MET:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:I:611:MET:HG3	1:I:611:MET:O	2.10	0.51
1:J:313:ARG:O	1:J:314:GLU:C	2.54	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
1:B:761:THR:O	1:B:761:THR:HG22	2.10	0.51
2:C:329:LEU:CD2	2:C:357:LEU:HD23	2.41	0.51
2:C:508:MET:CE	3:D:696:LYS:HB2	2.27	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
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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:I:721:GLU:H	1:I:721:GLU:CD	2.17	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:J:611:MET:O	1:J:611:MET: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
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:381:LEU:HD13	1:K:399:VAL:HG13	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:L:611:MET:HG3	1:L:611:MET:O	2.10	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
1:B:768:PHE:CE1	2:C:740:MET:HE3	2.46	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
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:580:ASP:OD2	1:F:623:THR:OG1	2.27	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:224:LEU:HD13	1:K:264:ALA:HB2	1.92	0.50
1:K:275:MET:HE2	1:K:308:ALA:O	2.12	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:219:MET:CE	1:E:365:ARG:HH21	2.10	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:313:ARG:O	1:K:314:GLU:C	2.54	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
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:502:LYS:HZ3	1:I:702:SER:C	2.20	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:F:761:THR:HG22	1:F:761:THR:O	2.10	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
1:K:467:THR:HG23	1:K:565:LYS:HE2	1.93	0.50
1:K:611:MET:HG3	1:K:611:MET:O	2.10	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:312:LYS:NZ	1:B:317:HIS:O	2.37	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:580:ASP:OD2	1:E:623:THR:OG1	2.27	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: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:275:MET:HE2	1:J:308:ALA:O	2.12	0.50
1:J:445:LEU:HD12	1:J:445:LEU:O	2.12	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:275:MET:HE2	1:G:308:ALA:O	2.12	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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:313:ARG:O	1:I:314:GLU:C	2.54	0.50
1:I:317:HIS:CE1	1:J:317:HIS:C	2.90	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: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: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
3:D:512:LYS:HZ3	3:D:612:SER:HA	1.77	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:H:220:VAL:O	1:H:220:VAL:HG12	2.11	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: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
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:219:MET:CE	1:F:365:ARG:HH21	2.10	0.49
1:F:284:SER:HB2	1:F:288:LYS:HZ3	1.77	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:191:ARG:CZ	1:G:192:GLU:HG2	2.42	0.49
1:G:244:TYR:C	1:G:244:TYR:CD1	2.91	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:275:MET:HE2	1:H:308:ALA:O	2.12	0.49
1:H:299:ALA:O	1:H:341:VAL:HA	2.11	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
2:C:508:MET:HE1	3:D:696:LYS:HE3	1.93	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:284:SER:HB2	1:E:288:LYS:HZ3	1.78	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:K:502:LYS:HZ3	1:L:703:ILE:CA	2.25	0.49
1:K:502:LYS:NZ	1:L:703:ILE:HA	2.26	0.49
1:L:275:MET:HE2	1:L:308:ALA:O	2.12	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:J:43:GLN:CD	1:J:75:ASP:HA	2.38	0.49
1:J:138:TYR:OH	1:J:155:ARG:O	2.26	0.49
1:J:244:TYR:CD1	1:J:244:TYR:C	2.91	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: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: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: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:I:275:MET:HE2	1:I:308:ALA:O	2.12	0.49
1:J:26:LEU:HD22	1:J:102:ILE:HB	1.95	0.49
1:K:43:GLN:CD	1:K:75:ASP:HA	2.38	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: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: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:K:244:TYR:CD1	1:K:244:TYR:C	2.91	0.49
1:L:204:ASP:OD1	1:L:205:ASP:N	2.45	0.49
1:L:244:TYR:C	1:L:244:TYR:CD1	2.91	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:476:TRP:CG	1:E:486:LYS:HE2	2.47	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:313:ARG:O	1:H:314:GLU:C	2.54	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: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:244:TYR:CD1	1:I:244:TYR:C	2.91	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: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:G:313:ARG:O	1:G:314:GLU:C	2.54	0.49
1:H:312:LYS:CB	1:H:315:LYS:HD3	2.43	0.49
1:I:43:GLN:CD	1:I:75:ASP:HA	2.38	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: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:L:578:GLU:CG	1:L:578:GLU:O	2.60	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:489:LEU:HB3	1:G:531:ILE:HD13	1.94	0.48
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: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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:426:LYS:C	1:F:428:ASP:H	2.21	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:244:TYR:CD1	1:H:244:TYR:C	2.91	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: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
3:D:426:LYS:C	3:D:428:ASP:H	2.21	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:332:MET:HE1	1:F:343:VAL:CG1	2.44	0.48
1:F:472:PRO:HD3	1:F:539:PHE:HB3	1.96	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:332:MET:HE1	1:A:343:VAL:CG1	2.44	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:472:PRO:HD3	1:E:539:PHE:HB3	1.96	0.48
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: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: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
2:C:760:GLN:HG2	1:L:760:GLN:CD	2.38	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:E:426:LYS:C	1:E:428:ASP:H	2.21	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:43:GLN:CD	1:H:75:ASP:HA	2.37	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:316:THR:HG22	1:A:322:ARG:HG2	1.95	0.48
1:A:426:LYS:C	1:A:428:ASP:H	2.21	0.48
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: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:332:MET:HE1	3:D:343:VAL:CG1	2.44	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:E:332:MET:HE1	1:E:343:VAL:CG1	2.44	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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
2:C:426:LYS:C	2:C:428:ASP:H	2.21	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: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: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:43:GLN:CD	1:L:75:ASP:HA	2.38	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
1:A:760:GLN:HG2	1:H:760:GLN:CD	2.36	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:468:VAL:CG2	1:K:470:GLU:OE1	2.58	0.48
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:594:GLY:HA2	3:D:586:ARG:C	2.39	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:G:43:GLN:CD	1:G:75:ASP:HA	2.37	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:332:MET:HE1	2:C:343:VAL:CG1	2.44	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:580:ASP:OD2	3:D:623:THR:OG1	2.27	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:35:ASP:N	1:G:35:ASP:OD1	2.46	0.47
1:G:232:ALA:HB2	1:H:436:THR:HA	1.95	0.47
1:G:317:HIS:CE1	1:H:317:HIS:C	2.92	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
1:B:332:MET:HE1	1:B:343:VAL:CG1	2.44	0.47
1:B:426:LYS:C	1:B:428:ASP:H	2.21	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: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:580:ASP:OD2	1:A:623:THR:OG1	2.27	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: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:J:220:VAL:CG1	1:J:224:LEU:HD12	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:284:SER:HB2	1:B:288:LYS:HZ3	1.78	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:697:LEU:HD23	1:E:700:ARG:NH2	2.29	0.47
1:F:236:LYS:HG3	1:F:236:LYS:O	2.15	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:I:714:GLN:O	1:I:714:GLN:HG2	2.12	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
1:B:760:GLN:HG2	1:G:760:GLN:CD	2.38	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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:84:MET:HE2	1:H:89:ARG:HB2	1.97	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:559:VAL:HG12	1:B:607:GLU:HG3	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
3:D:225:ARG:HG3	3:D:226:HIS:CE1	2.50	0.46
3:D:332:MET:HE3	3:D:363:PHE:CE2	2.51	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: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:332:MET:HE3	1:B:363:PHE:CE2	2.51	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
2:C:332:MET:HE3	2:C:363:PHE:CE2	2.50	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:H:710:GLU:CD	1:H:713:ARG:HH21	2.23	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:332:MET:HE3	1:A:363:PHE:CE2	2.50	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
3:D:312:LYS:NZ	3:D:317:HIS:O	2.37	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: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:284:SER:HB2	2:C:288:LYS:HZ3	1.78	0.46
2:C:615:LYS:O	5:C:802:Y6Y:C16	2.63	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: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:J:115:HIS:CG	1:J:167:GLU:HB3	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:84:MET:HE2	1:K:89:ARG:HB2	1.97	0.46
1:K:244:TYR:CE1	1:K:368:ASP:HB2	2.50	0.46
1:L:123:VAL:HG13	1:L:124:GLU:HG3	1.97	0.46
1:L:710:GLU:CD	1:L:713:ARG:HH21	2.23	0.46
1:A:615:LYS:O	5:A:802:Y6Y:C16	2.63	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: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:G:508:MET:CE	1:H:696:LYS:HB2	2.40	0.46
1:H:118:PRO:HB2	1:H:188:PRO:CB	2.45	0.46
1:H:570:ALA:HA	1:H:571:PRO:C	2.41	0.46
1:I:60:LYS:NZ	1:I:103:GLN:HB2	2.30	0.46
1:I:84:MET:HE2	1:I:89:ARG:HB2	1.97	0.46
1:I:89:ARG:HH12	1:I:203:TYR:HE1	1.63	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:410:ASP:OD2	1:G:462:SER:OG	2.22	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
1:I:570:ALA:HA	1:I:571:PRO:C	2.41	0.46
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: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
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:84:MET:HE2	1:G:89:ARG:HB2	1.97	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: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: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:556:GLU:N	3:D:556:GLU:CD	2.74	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:710:GLU:CD	1:G:713:ARG:HH21	2.23	0.46
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:K:710:GLU:CD	1:K:713:ARG:HH21	2.23	0.46
1:L:84:MET:HE2	1:L:89:ARG:HB2	1.97	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:574:LEU:HD23	1:A:619:ILE:CD1	2.45	0.46
1:A:764:GLN:O	1:A:764:GLN:HG3	2.14	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:578:GLU:O	1:F:578:GLU:CG	2.63	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:317:HIS:O	1:I:318:GLY:C	2.59	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:314:GLU:C	1:K:316:THR:N	2.74	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
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
3:D:760:GLN:HG2	1:K:760:GLN:CD	2.41	0.46
1:E:332:MET:HE3	1:E:363:PHE:CE2	2.50	0.46
1:E:359:ARG:CG	1:E:360:PHE:N	2.78	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:I:710:GLU:CD	1:I:713:ARG:HH21	2.23	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:332:MET:HE3	1:F:363:PHE:CE2	2.51	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:115:HIS:HB3	1:I:167:GLU:HB3	1.97	0.45
1:J:317:HIS:O	1:J:318:GLY:C	2.59	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
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:A:611:MET:O	1:A:612:SER:HB2	2.15	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:556:GLU:N	1:F:556:GLU:CD	2.74	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:390:LEU:HG	1:J:394:VAL:HG23	1.98	0.45
1:K:517:TYR:CZ	1:K:644:TYR:HB2	2.51	0.45
1:K:570:ALA:HA	1:K:571:PRO:C	2.41	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:L:314:GLU:C	1:L:316:THR:N	2.74	0.45
1:A:312:LYS:NZ	1:A:317:HIS:O	2.37	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:556:GLU:N	2:C:556:GLU:CD	2.74	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:314:GLU:C	1:H:316:THR:N	2.74	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
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:84:MET:HE2	1:J:89:ARG:HB2	1.97	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:570:ALA:HA	1:G:571:PRO:C	2.41	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:J:570:ALA:HA	1:J:571:PRO:C	2.41	0.45
1:K:494:GLN:O	1:K:497:VAL:HG22	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:317:HIS:O	1:G:318:GLY:C	2.59	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:138:TYR:OH	1:K:155:ARG:O	2.26	0.45
1:K:317:HIS:O	1:K:318:GLY:C	2.59	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:317:HIS:O	1:L:318:GLY:C	2.59	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:L:570:ALA:HA	1:L:571:PRO:C	2.41	0.45
1:B:359:ARG:CG	1:B:360:PHE:N	2.78	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
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:E:760:GLN:HG2	1:J:760:GLN:CD	2.42	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:H:317:HIS:O	1:H:318:GLY:C	2.59	0.45
1:I:26:LEU:HD12	1:I:82:ILE:CD1	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:144:ARG:O	1:I:176:VAL:HG12	2.16	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: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: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
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
3:D:768:PHE:CE1	1:E:740:MET:HE3	2.52	0.45
1:E:430:ILE:HG13	1:E:431:ASP:N	2.32	0.45
1:E:556:GLU:N	1:E:556:GLU:CD	2.74	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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:314:GLU:C	1:G:316:THR:N	2.74	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
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: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:613:THR:HG21	3:D:464:LEU:CD1	2.47	0.45
2:C:768:PHE:CE1	3:D:740:MET:HE3	2.52	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:E:611:MET:HG3	1:E:612:SER:N	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:390:LEU:HG	1:H:394:VAL:HG23	1.98	0.45
1:I:216:ILE:HD13	1:I:254:ILE:HG21	1.99	0.45
1:I:314:GLU:C	1:I:316:THR:N	2.74	0.45
1:I:508:MET:CE	1:J:696:LYS:HB2	2.36	0.45
1:I:657:LEU:HD12	1:I:676:ALA:HB2	1.99	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
1:L:229:LEU:C	1:L:229:LEU:HD23	2.42	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:J:710:GLU:CD	1:J:713:ARG:HH21	2.23	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
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
3:D:670:VAL:HG13	3:D:670:VAL:O	2.15	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:118:PRO:HB2	1:K:188:PRO:HB3	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:229:LEU:HD23	1:K:229:LEU:C	2.42	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: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:I:502:LYS:HZ3	1:J:703:ILE:N	2.14	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: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
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: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:194:GLU:C	1:G:194:GLU:CD	2.86	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:194:GLU:CD	1:H:194:GLU:C	2.86	0.44
1:H:207:GLY:O	4:H:801:ADP:N6	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:312:LYS:NZ	2:C:317:HIS:O	2.37	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
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:332:MET:HE2	1:J:362:ARG:O	2.18	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:543:LYS:HB2	1:F:543:LYS:HE2	1.45	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:229:LEU:C	1:I:229:LEU:HD23	2.42	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:359:ARG:HG2	1:B:360:PHE:N	2.32	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
3:D:438:ASP:HB3	3:D:440:GLU:CD	2.43	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
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: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:I:194:GLU:C	1:I:194:GLU:CD	2.86	0.44
1:J:314:GLU:C	1:J:316:THR:N	2.74	0.44
1:J:317:HIS:CE1	1:K:317:HIS:C	2.96	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:332:MET:HE2	1:K:362:ARG:O	2.18	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:C:438:ASP:HB3	2:C:440:GLU:CD	2.43	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:229:LEU:HD23	1:G:229:LEU:C	2.42	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:55:ASP:OD1	1:H:55:ASP:N	2.50	0.44
1:H:229:LEU:HD23	1:H:229:LEU:C	2.42	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:L:194:GLU:C	1:L:194:GLU:CD	2.86	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
1:B:438:ASP:HB3	1:B:440:GLU:CD	2.43	0.44
1:B:556:GLU:N	1:B:556:GLU:CD	2.74	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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:I:399:VAL:O	1:I:403:THR:OG1	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:229:LEU:HD23	1:J:229:LEU:C	2.42	0.43
1:J:330:THR:O	1:J:334:GLY:N	2.52	0.43
1:L:551:TRP:CZ2	1:L:586:ARG:HG2	2.52	0.43
2:C:494:GLN:HG2	2:C:498:GLU:CG	2.48	0.43
1:F:312:LYS:NZ	1:F:317:HIS:O	2.37	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:I:332:MET:HE2	1:I:362:ARG:O	2.18	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:K:194:GLU:CD	1:K:194:GLU:C	2.86	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:445:LEU:C	2:C:445:LEU:HD12	2.44	0.43
2:C:564:ASP:O	2:C:568:GLN:HG2	2.19	0.43
1:E:438:ASP:HB3	1:E:440:GLU:CD	2.43	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:F:445:LEU:C	1:F:445:LEU:HD12	2.44	0.43
1:G:332:MET:HE2	1:G:362:ARG:O	2.18	0.43
1:G:379:GLU:HG2	1:G:383:ILE:CD1	2.48	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:A:445:LEU:C	1:A:445:LEU:HD12	2.44	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
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:332:MET:HE2	1:H:362:ARG:O	2.18	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:194:GLU:C	1:J:194:GLU:CD	2.86	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: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
3:D:445:LEU:HD12	3:D:445:LEU:C	2.44	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:F:438:ASP:HB3	1:F:440:GLU:CD	2.43	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:332:MET:HE2	1:L:362:ARG:O	2.18	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
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
1:E:360:PHE:HZ	1:F:462:SER:OG	2.02	0.43
1:E:611:MET:C	1:E:613:THR:H	2.27	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:438:ASP:HB3	1:A:440:GLU:CD	2.43	0.43
1:A:504:LEU:HD23	1:A:504:LEU:C	2.44	0.43
1:A:564:ASP:O	1:A:568:GLN:HG2	2.19	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:611:MET:C	3:D:613:THR:H	2.27	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: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
1:B:504:LEU:HD23	1:B:504:LEU:C	2.44	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:E:504:LEU:HD23	1:E:504:LEU:C	2.44	0.43
1:F:278:LEU:N	1:F:281:GLU:OE2	2.51	0.43
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:172:PRO:HG2	1:G:173:TYR:CD1	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:244:TYR:C	1:J:244:TYR:HD1	2.27	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:A:611:MET:C	1:A:613:THR:H	2.27	0.43
1:B:327:GLN:HA	2:C:276:SER:HB2	2.01	0.43
1:B:611:MET:C	1:B:613:THR:H	2.27	0.43
2:C:504:LEU:C	2:C:504:LEU:HD23	2.44	0.43
2:C:611:MET:C	2:C:613:THR:H	2.27	0.43
3:D:504:LEU:HD23	3:D:504:LEU:C	2.44	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: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:504:LEU:C	1:F:504:LEU:HD23	2.44	0.43
1:F:611:MET:C	1:F:613:THR:H	2.27	0.43
1:G:244:TYR:C	1:G:244:TYR:HD1	2.27	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:426:LYS:O	1:J:428:ASP:N	2.52	0.43
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
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: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:157:GLY:H	1:L:389:LYS:HZ2	1.65	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:403:THR:CG2	1:A:411:LEU:HD21	2.48	0.42
1:A:556:GLU:N	1:A:556:GLU:CD	2.74	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: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:H:244:TYR:C	1:H:244:TYR:HD1	2.27	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: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
1:L:406:HIS:HE1	1:L:459:SER:CB	2.31	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:317:HIS:CE1	1:L:317:HIS:C	2.97	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:K:723:GLU:OE1	1:K:723:GLU:C	2.63	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:L:723:GLU:C	1:L:723:GLU:OE1	2.63	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:I:723:GLU:C	1:I:723:GLU:OE1	2.63	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:244:TYR:C	1:K:244:TYR:HD1	2.27	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
3:D:321:GLU:C	3:D:324:ILE:HG22	2.44	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: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:445:LEU:C	1:E:445:LEU:HD12	2.44	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:244:TYR:C	1:I:244:TYR:HD1	2.27	0.42
1:I:394:VAL:CG1	1:I:449:MET:CA	2.97	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:472:PRO:HD3	1:I:539:PHE:HB2	2.00	0.42
1:I:568:GLN:OE1	1:I:568:GLN:HA	2.19	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:445:LEU:C	1:B:445:LEU:HD12	2.44	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:55:ASP:OD1	1:G:55:ASP:N	2.50	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:336:LYS:C	1:I:337:GLN:HG2	2.44	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
2:C:310:ALA:HB3	2:C:357:LEU:HD11	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:F:336:LYS:HE2	1:F:338:ARG:HB2	2.01	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:723:GLU:OE1	1:H:723:GLU:C	2.63	0.42
1:H:749:ASP:OD1	1:H:749:ASP:O	2.38	0.42
1:H:764:GLN:HB2	1:I:742:PHE:C	2.45	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:K:669:ASP:CG	1:K:733:ARG:HD2	2.45	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: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:505:LYS:NZ	3:D:729:PRO:O	2.50	0.42
2:C:654:VAL:CG2	2:C:676:ALA:HB3	2.49	0.42
1:E:321:GLU:C	1:E:324:ILE:HG22	2.44	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: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:J:723:GLU:C	1:J:723:GLU:OE1	2.63	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
3:D:594:GLY:HA2	1:E:586:ARG:C	2.44	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: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:J:414:LEU:HD23	1:J:414:LEU:C	2.45	0.42
1:J:669:ASP:CG	1:J:733:ARG:HD2	2.45	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:O	1:L:315:LYS:HG3	2.20	0.42
1:L:414:LEU:HD23	1:L:414:LEU:C	2.45	0.42
1:L:669:ASP:CG	1:L:733:ARG:HD2	2.45	0.42
1:L:749:ASP:OD1	1:L:749:ASP:O	2.38	0.42
1:A:360:PHE:HZ	1:B:462:SER:OG	1.95	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
1:B:321:GLU:C	1:B:324:ILE:HG22	2.44	0.42
2:C:754:LYS:HA	2:C:757:MET:HE2	2.02	0.42
3:D:752:ILE:CG2	1:K:766:ARG:HH21	2.30	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:G:764:GLN:HB2	1:H:742:PHE:C	2.44	0.42
1:H:203:TYR:N	1:H:261:GLU:OE2	2.53	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
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:L:244:TYR:C	1:L:244:TYR:HD1	2.27	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: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:G:723:GLU:C	1:G:723:GLU:OE1	2.63	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:H:669:ASP:CG	1:H:733:ARG:HD2	2.45	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:414:LEU:C	1:K:414:LEU:HD23	2.45	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: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: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:H:614:LYS:O	1:H:615:LYS:HB2	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
1:L:589:ASN:HB2	1:L:625:ARG:HH22	1.85	0.41
1:A:336:LYS:C	1:A:338:ARG:H	2.29	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
2:C:336:LYS:C	2:C:338:ARG:H	2.29	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:754:LYS:HA	1:F:757:MET:HE2	2.02	0.41
1:G:414:LEU:HD23	1:G:414:LEU:C	2.45	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: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:336:LYS:C	1:B:338:ARG:H	2.29	0.41
1:B:469:VAL:HG11	1:B:569:ALA:CB	2.50	0.41
1:B:754:LYS:HA	1:B:757:MET:HE2	2.02	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:589:ASN:CG	1:E:590:ILE:HD12	2.46	0.41
1:F:336:LYS:C	1:F:338:ARG:H	2.29	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: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
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
1:B:713:ARG:C	1:B:713:ARG:CD	2.93	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: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:F:710:GLU:C	1:F:713:ARG:H	2.28	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:362:ARG:HH22	1:E:305:GLU:CD	2.29	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:F:662:ARG:HG3	1:F:663:LYS:N	2.35	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:336:LYS:C	1:H:337:GLN:HG2	2.44	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:414:LEU:HD23	1:I:414:LEU:C	2.45	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:336:LYS:C	1:L:337:GLN:HG2	2.44	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: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
3:D:589:ASN:CG	3:D:590:ILE:HD12	2.46	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
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:517:TYR:HB2	1:I:626:PRO:CG	2.48	0.41
1:I:614:LYS:O	1:I:615:LYS:HB2	2.19	0.41
1:I:651:LYS:H	1:I:651:LYS:CD	2.33	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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:E:336:LYS:C	1:E:338:ARG:H	2.29	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: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:G:669:ASP:CG	1:G:733:ARG:HD2	2.45	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:414:LEU:HD23	1:H:414:LEU:C	2.45	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:I:669:ASP:CG	1:I:733:ARG:HD2	2.45	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: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
1:K:313:ARG:HB3	1:K:314:GLU:H	1.58	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:A:321:GLU:C	1:A:324:ILE:HG22	2.44	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
2:C:321:GLU:C	2:C:324:ILE:HG22	2.44	0.41
3:D:336:LYS:C	3:D:338:ARG:H	2.29	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:321:GLU:C	1:F:324:ILE:HG22	2.44	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:336:LYS:C	1:G:337:GLN:HG2	2.44	0.41
1:G:486:LYS:HE2	1:G:490:GLN:OE1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:A:754:LYS:HA	1:A:757:MET:HE2	2.02	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
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
3:D:754:LYS:HA	3:D:757:MET:HE2	2.02	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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
1:H:120:ASP:CG	1:H:121:ASP:H	2.30	0.40
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:502:LYS:NZ	1:I:702:SER:C	2.79	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:674:PHE:HA	1:J:677:LYS:HG2	2.03	0.40
1:K:312:LYS:O	1:K:313:ARG:O	2.39	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: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
2:C:274:ILE:HG13	2:C:275:MET:N	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:754:LYS:HA	1:E:757:MET:HE2	2.02	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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:120:ASP:CG	1:K:121:ASP:H	2.30	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:138:TYR:OH	1:L:155:ARG:O	2.26	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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:92:LEU:O	1:K:93:ARG:HB2	2.21	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
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:589:ASN:CG	1:A:590:ILE:HD12	2.46	0.40
1:A:706:GLU:HG3	1:F:502:LYS:HE2	2.03	0.40
1:A:713:ARG:HD2	1:A:713:ARG:C	2.46	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: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:F:589:ASN:CG	1:F:590:ILE:HD12	2.46	0.40
1:G:434:ASP:OD1	1:G:437:ILE:HA	2.22	0.40
1:G:742:PHE:C	1:L:764:GLN:HB2	2.47	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:120:ASP:CG	1:J:121:ASP:H	2.30	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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%)	36	70
1	B	574/755 (76%)	544 (95%)	28 (5%)	2 (0%)	36	70
1	E	574/755 (76%)	544 (95%)	28 (5%)	2 (0%)	36	70
1	F	574/755 (76%)	542 (94%)	30 (5%)	2 (0%)	36	70
1	G	753/755 (100%)	707 (94%)	43 (6%)	3 (0%)	30	65
1	H	753/755 (100%)	707 (94%)	43 (6%)	3 (0%)	30	65
1	I	753/755 (100%)	707 (94%)	43 (6%)	3 (0%)	30	65
1	J	753/755 (100%)	707 (94%)	43 (6%)	3 (0%)	30	65
1	K	753/755 (100%)	707 (94%)	43 (6%)	3 (0%)	30	65
1	L	753/755 (100%)	707 (94%)	43 (6%)	3 (0%)	30	65
2	C	574/576 (100%)	543 (95%)	29 (5%)	2 (0%)	36	70
3	D	571/576 (99%)	540 (95%)	29 (5%)	2 (0%)	30	65
All	All	7959/8702 (92%)	7498 (94%)	431 (5%)	30 (0%)	31	65

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
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 ⓘ

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%)	468 (98%)	12 (2%)	42	72
1	B	480/644 (74%)	468 (98%)	12 (2%)	42	72

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	E	480/644 (74%)	468 (98%)	12 (2%)	42	72
1	F	480/644 (74%)	468 (98%)	12 (2%)	42	72
1	G	644/644 (100%)	633 (98%)	11 (2%)	53	78
1	H	644/644 (100%)	633 (98%)	11 (2%)	53	78
1	I	644/644 (100%)	633 (98%)	11 (2%)	53	78
1	J	644/644 (100%)	633 (98%)	11 (2%)	53	78
1	K	644/644 (100%)	633 (98%)	11 (2%)	53	78
1	L	644/644 (100%)	633 (98%)	11 (2%)	53	78
2	C	480/480 (100%)	468 (98%)	12 (2%)	42	72
3	D	479/480 (100%)	467 (98%)	12 (2%)	42	72
All	All	6743/7400 (91%)	6605 (98%)	138 (2%)	48	76

All (138) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	216	ILE
1	A	221	GLU
1	A	262	THR
1	A	365	ARG
1	A	459	SER
1	A	543	LYS
1	A	556	GLU
1	A	678	MET
1	A	706	GLU
1	A	708	ARG
1	A	709	ARG
1	A	732	ARG
1	B	216	ILE
1	B	221	GLU
1	B	262	THR
1	B	365	ARG
1	B	459	SER
1	B	543	LYS
1	B	556	GLU
1	B	678	MET
1	B	706	GLU
1	B	708	ARG
1	B	709	ARG

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Mol	Chain	Res	Type
1	B	732	ARG
2	C	216	ILE
2	C	221	GLU
2	C	262	THR
2	C	365	ARG
2	C	459	SER
2	C	543	LYS
2	C	556	GLU
2	C	678	MET
2	C	706	GLU
2	C	708	ARG
2	C	709	ARG
2	C	732	ARG
3	D	216	ILE
3	D	221	GLU
3	D	262	THR
3	D	365	ARG
3	D	459	SER
3	D	543	LYS
3	D	556	GLU
3	D	678	MET
3	D	706	GLU
3	D	708	ARG
3	D	709	ARG
3	D	732	ARG
1	E	216	ILE
1	E	221	GLU
1	E	262	THR
1	E	365	ARG
1	E	459	SER
1	E	543	LYS
1	E	556	GLU
1	E	678	MET
1	E	706	GLU
1	E	708	ARG
1	E	709	ARG
1	E	732	ARG
1	F	216	ILE
1	F	221	GLU
1	F	262	THR
1	F	365	ARG
1	F	459	SER

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Mol	Chain	Res	Type
1	F	543	LYS
1	F	556	GLU
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	723	GLU
1	G	738	GLU
1	G	741	ARG
1	G	753	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	723	GLU
1	H	738	GLU
1	H	741	ARG
1	H	753	ARG
1	I	194	GLU
1	I	244	TYR
1	I	357	LEU
1	I	360	PHE
1	I	509	THR
1	I	669	ASP
1	I	706	GLU
1	I	723	GLU
1	I	738	GLU
1	I	741	ARG
1	I	753	ARG
1	J	194	GLU
1	J	244	TYR

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Mol	Chain	Res	Type
1	J	357	LEU
1	J	360	PHE
1	J	509	THR
1	J	669	ASP
1	J	706	GLU
1	J	723	GLU
1	J	738	GLU
1	J	741	ARG
1	J	753	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	723	GLU
1	K	738	GLU
1	K	741	ARG
1	K	753	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	723	GLU
1	L	738	GLU
1	L	741	ARG
1	L	753	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (65) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	296	ASN
1	A	382	GLN
1	A	458	GLN
1	A	692	GLN
1	B	296	ASN
1	B	382	GLN
2	C	296	ASN

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Mol	Chain	Res	Type
2	C	382	GLN
2	C	712	GLN
3	D	296	ASN
3	D	382	GLN
1	E	296	ASN
1	F	296	ASN
1	F	382	GLN
1	G	90	ASN
1	G	285	ASN
1	G	317	HIS
1	G	327	GLN
1	G	443	ASN
1	G	458	GLN
1	G	499	HIS
1	G	538	ASN
1	G	602	ASN
1	H	90	ASN
1	H	285	ASN
1	H	317	HIS
1	H	327	GLN
1	H	443	ASN
1	H	458	GLN
1	H	538	ASN
1	H	602	ASN
1	I	90	ASN
1	I	285	ASN
1	I	317	HIS
1	I	327	GLN
1	I	443	ASN
1	I	458	GLN
1	I	538	ASN
1	I	602	ASN
1	J	90	ASN
1	J	285	ASN
1	J	317	HIS
1	J	327	GLN
1	J	443	ASN
1	J	458	GLN
1	J	499	HIS
1	J	538	ASN
1	J	602	ASN
1	K	90	ASN

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Mol	Chain	Res	Type
1	K	285	ASN
1	K	317	HIS
1	K	327	GLN
1	K	443	ASN
1	K	458	GLN
1	K	499	HIS
1	K	538	ASN
1	K	602	ASN
1	L	90	ASN
1	L	285	ASN
1	L	317	HIS
1	L	327	GLN
1	L	443	ASN
1	L	458	GLN
1	L	538	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 oligosaccharides 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
5	Y6Y	L	802	-	40,40,40	6.13	28 (70%)	51,57,57	2.52	10 (19%)
5	Y6Y	H	802	-	40,40,40	6.13	28 (70%)	51,57,57	2.52	10 (19%)
4	ADP	A	801	-	28,29,29	3.94	13 (46%)	43,45,45	1.85	9 (20%)
4	ADP	E	801	-	28,29,29	3.94	13 (46%)	43,45,45	1.84	8 (18%)
5	Y6Y	A	802	-	40,40,40	6.35	30 (75%)	51,57,57	2.44	11 (21%)
5	Y6Y	J	802	-	40,40,40	6.13	28 (70%)	51,57,57	2.52	10 (19%)
5	Y6Y	C	802	-	40,40,40	6.35	30 (75%)	51,57,57	2.43	11 (21%)
4	ADP	I	801	-	28,29,29	3.92	14 (50%)	43,45,45	1.79	9 (20%)
4	ADP	L	801	-	28,29,29	3.93	14 (50%)	43,45,45	1.78	9 (20%)
4	ADP	G	801	-	28,29,29	3.92	14 (50%)	43,45,45	1.78	9 (20%)
5	Y6Y	F	802	-	40,40,40	6.35	30 (75%)	51,57,57	2.43	11 (21%)
5	Y6Y	E	802	-	40,40,40	6.35	30 (75%)	51,57,57	2.44	11 (21%)
5	Y6Y	G	802	-	40,40,40	6.12	28 (70%)	51,57,57	2.52	10 (19%)
4	ADP	B	801	-	28,29,29	3.93	13 (46%)	43,45,45	1.84	9 (20%)
4	ADP	C	801	-	28,29,29	3.93	13 (46%)	43,45,45	1.85	9 (20%)
5	Y6Y	I	802	-	40,40,40	6.13	28 (70%)	51,57,57	2.52	10 (19%)
4	ADP	H	801	-	28,29,29	3.92	14 (50%)	43,45,45	1.78	8 (18%)
5	Y6Y	K	802	-	40,40,40	6.12	28 (70%)	51,57,57	2.52	10 (19%)
5	Y6Y	D	802	-	40,40,40	6.35	30 (75%)	51,57,57	2.44	11 (21%)
4	ADP	F	801	-	28,29,29	3.94	13 (46%)	43,45,45	1.84	8 (18%)
4	ADP	K	801	-	28,29,29	3.92	14 (50%)	43,45,45	1.78	8 (18%)
5	Y6Y	B	802	-	40,40,40	6.35	30 (75%)	51,57,57	2.44	11 (21%)
4	ADP	J	801	-	28,29,29	3.92	14 (50%)	43,45,45	1.78	8 (18%)
4	ADP	D	801	-	28,29,29	3.93	13 (46%)	43,45,45	1.85	9 (20%)

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
5	Y6Y	L	802	-	-	13/23/30/30	0/5/5/5
5	Y6Y	H	802	-	-	13/23/30/30	0/5/5/5
4	ADP	A	801	-	-	6/16/32/32	0/3/3/3
4	ADP	E	801	-	-	6/16/32/32	0/3/3/3
5	Y6Y	A	802	-	-	16/23/30/30	0/5/5/5

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
5	Y6Y	J	802	-	-	13/23/30/30	0/5/5/5
5	Y6Y	C	802	-	-	16/23/30/30	0/5/5/5
4	ADP	I	801	-	-	2/16/32/32	0/3/3/3
4	ADP	L	801	-	-	2/16/32/32	0/3/3/3
4	ADP	G	801	-	-	2/16/32/32	0/3/3/3
5	Y6Y	F	802	-	-	16/23/30/30	0/5/5/5
5	Y6Y	E	802	-	-	16/23/30/30	0/5/5/5
5	Y6Y	G	802	-	-	13/23/30/30	0/5/5/5
4	ADP	B	801	-	-	6/16/32/32	0/3/3/3
4	ADP	C	801	-	-	6/16/32/32	0/3/3/3
5	Y6Y	I	802	-	-	13/23/30/30	0/5/5/5
4	ADP	H	801	-	-	2/16/32/32	0/3/3/3
5	Y6Y	K	802	-	-	13/23/30/30	0/5/5/5
5	Y6Y	D	802	-	-	16/23/30/30	0/5/5/5
4	ADP	F	801	-	-	6/16/32/32	0/3/3/3
4	ADP	K	801	-	-	2/16/32/32	0/3/3/3
5	Y6Y	B	802	-	-	16/23/30/30	0/5/5/5
4	ADP	J	801	-	-	2/16/32/32	0/3/3/3
4	ADP	D	801	-	-	6/16/32/32	0/3/3/3

All (510) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	D	802	Y6Y	C2-C1	11.95	1.55	1.39
5	F	802	Y6Y	C2-C1	11.93	1.55	1.39
5	A	802	Y6Y	C2-C1	11.91	1.55	1.39
5	B	802	Y6Y	C2-C1	11.89	1.55	1.39
5	E	802	Y6Y	C2-C1	11.89	1.55	1.39
5	C	802	Y6Y	C2-C1	11.88	1.55	1.39
5	K	802	Y6Y	C11-C10	11.60	1.56	1.38
5	G	802	Y6Y	C11-C10	11.57	1.56	1.38
5	H	802	Y6Y	C11-C10	11.57	1.56	1.38
5	J	802	Y6Y	C11-C10	11.57	1.56	1.38
5	L	802	Y6Y	C11-C10	11.56	1.56	1.38
5	I	802	Y6Y	C11-C10	11.55	1.56	1.38
5	A	802	Y6Y	C11-C10	11.37	1.56	1.38
5	B	802	Y6Y	C11-C10	11.36	1.56	1.38
5	F	802	Y6Y	C11-C10	11.35	1.56	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	D	802	Y6Y	C11-C10	11.35	1.56	1.38
5	E	802	Y6Y	C11-C10	11.35	1.56	1.38
5	C	802	Y6Y	C11-C10	11.34	1.56	1.38
5	G	802	Y6Y	C2-C1	11.28	1.55	1.39
5	I	802	Y6Y	C2-C1	11.28	1.55	1.39
5	J	802	Y6Y	C2-C1	11.25	1.54	1.39
5	H	802	Y6Y	C2-C1	11.23	1.54	1.39
5	K	802	Y6Y	C2-C1	11.23	1.54	1.39
5	L	802	Y6Y	C2-C1	11.20	1.54	1.39
5	E	802	Y6Y	C5-C6	10.89	1.56	1.40
5	A	802	Y6Y	C5-C6	10.89	1.56	1.40
5	D	802	Y6Y	C5-C6	10.88	1.56	1.40
5	B	802	Y6Y	C5-C6	10.87	1.56	1.40
5	F	802	Y6Y	C5-C6	10.85	1.56	1.40
5	C	802	Y6Y	C5-C6	10.85	1.56	1.40
5	H	802	Y6Y	C5-C6	10.67	1.56	1.40
5	I	802	Y6Y	C5-C6	10.67	1.56	1.40
5	G	802	Y6Y	C5-C6	10.67	1.56	1.40
5	J	802	Y6Y	C5-C6	10.66	1.56	1.40
5	L	802	Y6Y	C5-C6	10.64	1.56	1.40
5	K	802	Y6Y	C5-C6	10.61	1.56	1.40
5	D	802	Y6Y	C9-C8	10.50	1.55	1.38
5	A	802	Y6Y	C9-C8	10.48	1.55	1.38
5	F	802	Y6Y	C9-C8	10.48	1.55	1.38
5	B	802	Y6Y	C9-C8	10.46	1.55	1.38
5	C	802	Y6Y	C9-C8	10.46	1.55	1.38
5	E	802	Y6Y	C9-C8	10.46	1.55	1.38
5	K	802	Y6Y	C9-C8	10.01	1.55	1.38
5	H	802	Y6Y	C9-C8	9.98	1.55	1.38
5	I	802	Y6Y	C9-C8	9.98	1.54	1.38
5	G	802	Y6Y	C9-C8	9.97	1.54	1.38
5	L	802	Y6Y	C9-C8	9.97	1.54	1.38
5	J	802	Y6Y	C9-C8	9.96	1.54	1.38
5	C	802	Y6Y	C4-C5	9.89	1.54	1.38
5	C	802	Y6Y	C2-C3	9.89	1.55	1.39
5	B	802	Y6Y	C4-C5	9.89	1.54	1.38
5	F	802	Y6Y	C4-C5	9.88	1.54	1.38
5	E	802	Y6Y	C2-C3	9.88	1.55	1.39
5	F	802	Y6Y	C2-C3	9.87	1.55	1.39
5	A	802	Y6Y	C4-C5	9.87	1.54	1.38
5	B	802	Y6Y	C2-C3	9.86	1.55	1.39
5	E	802	Y6Y	C4-C5	9.84	1.54	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	D	802	Y6Y	C4-C5	9.83	1.54	1.38
5	D	802	Y6Y	C2-C3	9.83	1.55	1.39
5	A	802	Y6Y	C2-C3	9.82	1.55	1.39
5	G	802	Y6Y	C23-C22	9.37	1.54	1.38
5	I	802	Y6Y	C23-C22	9.35	1.54	1.38
5	L	802	Y6Y	C2-C3	9.34	1.54	1.39
5	K	802	Y6Y	C23-C22	9.34	1.54	1.38
5	H	802	Y6Y	C2-C3	9.33	1.54	1.39
5	I	802	Y6Y	C2-C3	9.32	1.54	1.39
5	J	802	Y6Y	C23-C22	9.32	1.54	1.38
5	K	802	Y6Y	C2-C3	9.30	1.54	1.39
5	G	802	Y6Y	C2-C3	9.29	1.54	1.39
5	H	802	Y6Y	C23-C22	9.29	1.54	1.38
5	L	802	Y6Y	C23-C22	9.28	1.54	1.38
5	J	802	Y6Y	C2-C3	9.27	1.54	1.39
5	B	802	Y6Y	C9-C10	9.25	1.53	1.38
5	C	802	Y6Y	C9-C10	9.25	1.53	1.38
5	D	802	Y6Y	C9-C10	9.24	1.53	1.38
5	A	802	Y6Y	C9-C10	9.23	1.53	1.38
5	D	802	Y6Y	C23-C22	9.23	1.54	1.38
5	A	802	Y6Y	C23-C22	9.22	1.54	1.38
5	E	802	Y6Y	C9-C10	9.22	1.53	1.38
5	F	802	Y6Y	C23-C22	9.22	1.54	1.38
5	C	802	Y6Y	C23-C22	9.20	1.54	1.38
5	F	802	Y6Y	C9-C10	9.20	1.53	1.38
5	E	802	Y6Y	C23-C22	9.20	1.54	1.38
5	B	802	Y6Y	C23-C22	9.19	1.54	1.38
5	I	802	Y6Y	C4-C5	9.19	1.53	1.38
5	F	802	Y6Y	C12-C11	9.18	1.53	1.38
5	K	802	Y6Y	C4-C5	9.18	1.53	1.38
5	L	802	Y6Y	C4-C5	9.17	1.53	1.38
5	H	802	Y6Y	C4-C5	9.16	1.53	1.38
5	D	802	Y6Y	C12-C11	9.16	1.53	1.38
5	J	802	Y6Y	C4-C5	9.15	1.53	1.38
5	L	802	Y6Y	C12-C11	9.15	1.53	1.38
5	I	802	Y6Y	C12-C11	9.14	1.53	1.38
5	A	802	Y6Y	C12-C11	9.14	1.53	1.38
5	H	802	Y6Y	C12-C11	9.14	1.53	1.38
5	J	802	Y6Y	C12-C11	9.13	1.53	1.38
5	C	802	Y6Y	C12-C11	9.12	1.53	1.38
5	B	802	Y6Y	C12-C11	9.12	1.53	1.38
5	G	802	Y6Y	C4-C5	9.12	1.53	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	L	802	Y6Y	C9-C10	9.12	1.53	1.38
5	E	802	Y6Y	C12-C11	9.12	1.53	1.38
5	J	802	Y6Y	C9-C10	9.11	1.53	1.38
5	K	802	Y6Y	C12-C11	9.10	1.53	1.38
5	I	802	Y6Y	C9-C10	9.10	1.53	1.38
5	G	802	Y6Y	C9-C10	9.10	1.53	1.38
5	H	802	Y6Y	C9-C10	9.10	1.53	1.38
5	G	802	Y6Y	C12-C11	9.09	1.53	1.38
5	K	802	Y6Y	C9-C10	9.03	1.52	1.38
4	L	801	ADP	C3'-C4'	-8.80	1.30	1.53
4	G	801	ADP	C3'-C4'	-8.79	1.30	1.53
4	H	801	ADP	C3'-C4'	-8.79	1.30	1.53
4	I	801	ADP	C3'-C4'	-8.78	1.30	1.53
4	J	801	ADP	C3'-C4'	-8.78	1.30	1.53
4	K	801	ADP	C3'-C4'	-8.77	1.30	1.53
4	A	801	ADP	C3'-C4'	-8.73	1.30	1.53
4	E	801	ADP	C3'-C4'	-8.71	1.30	1.53
4	D	801	ADP	C3'-C4'	-8.71	1.30	1.53
4	B	801	ADP	C3'-C4'	-8.71	1.30	1.53
4	C	801	ADP	C3'-C4'	-8.70	1.30	1.53
4	F	801	ADP	C3'-C4'	-8.70	1.30	1.53
4	F	801	ADP	C4-N3	8.37	1.50	1.34
5	C	802	Y6Y	C12-C7	8.36	1.56	1.39
4	A	801	ADP	C4-N3	8.36	1.50	1.34
5	A	802	Y6Y	C12-C7	8.35	1.56	1.39
5	E	802	Y6Y	C12-C7	8.34	1.56	1.39
4	E	801	ADP	C4-N3	8.33	1.50	1.34
5	F	802	Y6Y	C12-C7	8.33	1.55	1.39
5	B	802	Y6Y	C12-C7	8.33	1.55	1.39
5	D	802	Y6Y	C12-C7	8.33	1.55	1.39
4	C	801	ADP	C4-N3	8.30	1.49	1.34
4	D	801	ADP	C4-N3	8.30	1.49	1.34
4	B	801	ADP	C4-N3	8.30	1.49	1.34
4	L	801	ADP	C4-N3	8.21	1.49	1.34
5	I	802	Y6Y	C12-C7	8.20	1.55	1.39
4	I	801	ADP	C4-N3	8.20	1.49	1.34
4	J	801	ADP	C4-N3	8.19	1.49	1.34
5	K	802	Y6Y	C12-C7	8.19	1.55	1.39
4	K	801	ADP	C4-N3	8.19	1.49	1.34
5	G	802	Y6Y	C12-C7	8.19	1.55	1.39
5	J	802	Y6Y	C12-C7	8.17	1.55	1.39
4	G	801	ADP	C4-N3	8.17	1.49	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	H	802	Y6Y	C12-C7	8.17	1.55	1.39
4	H	801	ADP	C4-N3	8.17	1.49	1.34
5	L	802	Y6Y	C12-C7	8.16	1.55	1.39
5	B	802	Y6Y	C8-C7	7.83	1.54	1.39
5	D	802	Y6Y	C8-C7	7.82	1.54	1.39
5	E	802	Y6Y	C8-C7	7.82	1.54	1.39
5	A	802	Y6Y	C8-C7	7.80	1.54	1.39
5	C	802	Y6Y	C8-C7	7.78	1.54	1.39
5	F	802	Y6Y	C8-C7	7.77	1.54	1.39
5	D	802	Y6Y	C4-C3	7.70	1.53	1.38
5	C	802	Y6Y	C4-C3	7.70	1.53	1.38
5	A	802	Y6Y	C4-C3	7.67	1.53	1.38
5	E	802	Y6Y	C4-C3	7.66	1.53	1.38
4	L	801	ADP	O4'-C4'	7.64	1.62	1.45
4	G	801	ADP	O4'-C4'	7.63	1.62	1.45
4	H	801	ADP	O4'-C4'	7.63	1.61	1.45
4	I	801	ADP	O4'-C4'	7.62	1.61	1.45
4	K	801	ADP	O4'-C4'	7.62	1.61	1.45
5	F	802	Y6Y	C4-C3	7.62	1.53	1.38
4	J	801	ADP	O4'-C4'	7.61	1.61	1.45
5	B	802	Y6Y	C4-C3	7.60	1.53	1.38
5	J	802	Y6Y	C23-N3	7.55	1.50	1.34
5	I	802	Y6Y	C23-N3	7.54	1.50	1.34
5	K	802	Y6Y	C23-N3	7.54	1.50	1.34
5	H	802	Y6Y	C23-N3	7.53	1.50	1.34
5	L	802	Y6Y	C23-N3	7.52	1.50	1.34
5	E	802	Y6Y	C23-N3	7.49	1.50	1.34
5	A	802	Y6Y	C23-N3	7.49	1.50	1.34
5	C	802	Y6Y	C23-N3	7.48	1.50	1.34
5	B	802	Y6Y	C23-N3	7.47	1.50	1.34
5	G	802	Y6Y	C23-N3	7.47	1.50	1.34
4	D	801	ADP	O4'-C4'	7.46	1.61	1.45
5	F	802	Y6Y	C23-N3	7.46	1.50	1.34
5	D	802	Y6Y	C23-N3	7.46	1.50	1.34
4	C	801	ADP	C2-N3	7.46	1.47	1.33
5	L	802	Y6Y	C8-C7	7.45	1.54	1.39
4	A	801	ADP	O4'-C4'	7.44	1.61	1.45
4	B	801	ADP	O4'-C4'	7.44	1.61	1.45
4	E	801	ADP	C2-N3	7.44	1.47	1.33
4	F	801	ADP	O4'-C4'	7.44	1.61	1.45
4	F	801	ADP	C2-N3	7.43	1.47	1.33
5	J	802	Y6Y	C8-C7	7.43	1.54	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	D	801	ADP	C2-N3	7.42	1.47	1.33
4	C	801	ADP	O4'-C4'	7.42	1.61	1.45
4	E	801	ADP	O4'-C4'	7.42	1.61	1.45
5	H	802	Y6Y	C8-C7	7.42	1.54	1.39
5	I	802	Y6Y	C8-C7	7.42	1.54	1.39
5	G	802	Y6Y	C8-C7	7.41	1.54	1.39
4	B	801	ADP	C2-N3	7.41	1.47	1.33
4	A	801	ADP	C2-N3	7.41	1.47	1.33
5	K	802	Y6Y	C8-C7	7.38	1.54	1.39
5	E	802	Y6Y	C25-C26	7.31	1.51	1.38
5	H	802	Y6Y	C25-C26	7.29	1.51	1.38
5	A	802	Y6Y	C25-C26	7.28	1.51	1.38
5	B	802	Y6Y	C25-C26	7.27	1.51	1.38
5	L	802	Y6Y	C25-C26	7.27	1.51	1.38
5	F	802	Y6Y	C25-C26	7.26	1.51	1.38
4	G	801	ADP	C2-N3	7.26	1.46	1.33
5	C	802	Y6Y	C25-C26	7.26	1.51	1.38
5	D	802	Y6Y	C25-C26	7.26	1.51	1.38
5	J	802	Y6Y	C25-C26	7.25	1.51	1.38
4	K	801	ADP	C2-N3	7.25	1.46	1.33
4	J	801	ADP	C2-N3	7.24	1.46	1.33
4	H	801	ADP	C2-N3	7.24	1.46	1.33
4	I	801	ADP	C2-N3	7.24	1.46	1.33
4	L	801	ADP	C2-N3	7.23	1.46	1.33
5	K	802	Y6Y	C25-C26	7.23	1.51	1.38
5	G	802	Y6Y	C25-C26	7.21	1.51	1.38
5	I	802	Y6Y	C25-C26	7.17	1.51	1.38
5	G	802	Y6Y	C4-C3	7.16	1.52	1.38
5	J	802	Y6Y	C4-C3	7.14	1.52	1.38
5	L	802	Y6Y	C4-C3	7.13	1.52	1.38
5	K	802	Y6Y	C4-C3	7.12	1.52	1.38
5	H	802	Y6Y	C4-C3	7.08	1.52	1.38
5	I	802	Y6Y	C4-C3	7.06	1.52	1.38
5	D	802	Y6Y	C14-C15	6.78	1.58	1.49
5	F	802	Y6Y	C14-C15	6.77	1.58	1.49
5	C	802	Y6Y	C14-C15	6.77	1.58	1.49
5	B	802	Y6Y	C14-C15	6.74	1.58	1.49
5	A	802	Y6Y	C14-C15	6.72	1.58	1.49
5	E	802	Y6Y	C14-C15	6.72	1.58	1.49
5	E	802	Y6Y	C16-S1	6.28	1.84	1.75
5	F	802	Y6Y	C16-S1	6.26	1.84	1.75
5	B	802	Y6Y	C16-S1	6.26	1.84	1.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	C	802	Y6Y	C16-S1	6.26	1.84	1.75
5	D	802	Y6Y	C16-S1	6.23	1.84	1.75
5	A	802	Y6Y	C16-S1	6.23	1.84	1.75
5	L	802	Y6Y	C26-C22	6.14	1.50	1.39
5	J	802	Y6Y	C26-C22	6.14	1.50	1.39
5	G	802	Y6Y	C26-C22	6.13	1.50	1.39
5	C	802	Y6Y	C26-C22	6.12	1.50	1.39
5	I	802	Y6Y	C26-C22	6.12	1.50	1.39
5	D	802	Y6Y	C26-C22	6.12	1.50	1.39
5	K	802	Y6Y	C26-C22	6.12	1.50	1.39
5	E	802	Y6Y	C26-C22	6.12	1.50	1.39
5	B	802	Y6Y	C26-C22	6.11	1.50	1.39
5	H	802	Y6Y	C26-C22	6.11	1.50	1.39
5	F	802	Y6Y	C26-C22	6.09	1.50	1.39
5	A	802	Y6Y	C26-C22	6.06	1.50	1.39
4	B	801	ADP	C2-N1	6.02	1.44	1.33
4	A	801	ADP	C2-N1	6.01	1.44	1.33
4	D	801	ADP	C2-N1	6.00	1.44	1.33
4	E	801	ADP	C2-N1	5.99	1.44	1.33
4	F	801	ADP	C2-N1	5.98	1.44	1.33
4	C	801	ADP	C2-N1	5.98	1.44	1.33
5	B	802	Y6Y	C6-C1	5.92	1.51	1.40
4	J	801	ADP	C2-N1	5.91	1.44	1.33
5	C	802	Y6Y	C6-C1	5.90	1.51	1.40
5	J	802	Y6Y	C6-C1	5.90	1.51	1.40
5	A	802	Y6Y	C6-C1	5.90	1.51	1.40
5	F	802	Y6Y	C6-C1	5.90	1.51	1.40
4	H	801	ADP	C2-N1	5.89	1.44	1.33
5	K	802	Y6Y	C6-C1	5.89	1.51	1.40
4	K	801	ADP	C2-N1	5.89	1.44	1.33
5	E	802	Y6Y	C6-C1	5.89	1.51	1.40
5	H	802	Y6Y	C6-C1	5.89	1.51	1.40
4	L	801	ADP	C2-N1	5.89	1.44	1.33
5	D	802	Y6Y	C25-C24	5.87	1.54	1.37
4	I	801	ADP	C2-N1	5.87	1.44	1.33
5	F	802	Y6Y	C25-C24	5.87	1.54	1.37
5	L	802	Y6Y	C6-C1	5.86	1.51	1.40
4	G	801	ADP	C2-N1	5.86	1.44	1.33
5	D	802	Y6Y	C6-C1	5.86	1.51	1.40
5	G	802	Y6Y	C6-C1	5.86	1.51	1.40
5	I	802	Y6Y	C6-C1	5.85	1.51	1.40
5	H	802	Y6Y	C14-C15	5.83	1.57	1.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	C	802	Y6Y	C25-C24	5.83	1.54	1.37
5	B	802	Y6Y	C25-C24	5.83	1.54	1.37
5	A	802	Y6Y	C25-C24	5.83	1.54	1.37
5	I	802	Y6Y	C25-C24	5.82	1.54	1.37
5	G	802	Y6Y	C14-C15	5.82	1.57	1.49
5	E	802	Y6Y	C25-C24	5.82	1.54	1.37
5	J	802	Y6Y	C24-N3	5.81	1.50	1.33
5	G	802	Y6Y	C25-C24	5.81	1.54	1.37
5	K	802	Y6Y	C24-N3	5.81	1.50	1.33
5	L	802	Y6Y	C24-N3	5.81	1.50	1.33
5	J	802	Y6Y	C25-C24	5.81	1.54	1.37
5	K	802	Y6Y	C25-C24	5.81	1.54	1.37
5	L	802	Y6Y	C25-C24	5.81	1.54	1.37
5	G	802	Y6Y	C24-N3	5.81	1.50	1.33
5	H	802	Y6Y	C25-C24	5.81	1.54	1.37
5	K	802	Y6Y	C14-C15	5.80	1.57	1.49
5	L	802	Y6Y	C14-C15	5.80	1.57	1.49
5	I	802	Y6Y	C24-N3	5.79	1.50	1.33
5	H	802	Y6Y	C24-N3	5.78	1.50	1.33
5	B	802	Y6Y	C24-N3	5.78	1.50	1.33
5	F	802	Y6Y	C24-N3	5.78	1.50	1.33
5	F	802	Y6Y	C6-C7	5.77	1.59	1.49
5	I	802	Y6Y	C14-C15	5.77	1.57	1.49
5	A	802	Y6Y	C24-N3	5.77	1.50	1.33
5	J	802	Y6Y	C14-C15	5.77	1.57	1.49
5	D	802	Y6Y	C24-N3	5.77	1.50	1.33
5	E	802	Y6Y	C24-N3	5.76	1.49	1.33
5	C	802	Y6Y	C6-C7	5.76	1.59	1.49
5	C	802	Y6Y	C24-N3	5.76	1.49	1.33
5	B	802	Y6Y	C6-C7	5.75	1.59	1.49
5	E	802	Y6Y	C6-C7	5.74	1.59	1.49
5	D	802	Y6Y	C6-C7	5.73	1.59	1.49
5	A	802	Y6Y	C6-C7	5.70	1.59	1.49
4	D	801	ADP	PA-O3A	5.43	1.65	1.59
4	A	801	ADP	PA-O3A	5.43	1.65	1.59
4	E	801	ADP	PA-O3A	5.40	1.65	1.59
4	F	801	ADP	PA-O3A	5.39	1.65	1.59
4	B	801	ADP	PA-O3A	5.39	1.65	1.59
4	C	801	ADP	PA-O3A	5.37	1.65	1.59
4	G	801	ADP	PA-O3A	5.34	1.65	1.59
4	L	801	ADP	PA-O3A	5.33	1.65	1.59
4	K	801	ADP	PA-O3A	5.31	1.65	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	H	801	ADP	PA-O3A	5.31	1.65	1.59
4	J	801	ADP	PA-O3A	5.31	1.65	1.59
4	I	801	ADP	PA-O3A	5.27	1.65	1.59
5	G	802	Y6Y	C6-C7	5.09	1.58	1.49
5	L	802	Y6Y	C6-C7	5.08	1.58	1.49
5	K	802	Y6Y	C6-C7	5.05	1.58	1.49
5	I	802	Y6Y	C6-C7	5.03	1.58	1.49
5	L	802	Y6Y	C16-S1	5.03	1.82	1.75
5	H	802	Y6Y	C6-C7	5.02	1.58	1.49
5	J	802	Y6Y	C6-C7	5.00	1.58	1.49
5	K	802	Y6Y	C16-S1	5.00	1.82	1.75
5	G	802	Y6Y	C16-S1	4.97	1.82	1.75
5	I	802	Y6Y	C16-S1	4.95	1.82	1.75
5	J	802	Y6Y	C16-S1	4.95	1.82	1.75
5	H	802	Y6Y	C16-S1	4.92	1.82	1.75
5	C	802	Y6Y	C10-S	4.85	1.82	1.77
5	F	802	Y6Y	C10-S	4.84	1.82	1.77
5	A	802	Y6Y	C10-S	4.83	1.82	1.77
5	E	802	Y6Y	C10-S	4.83	1.82	1.77
5	B	802	Y6Y	C10-S	4.81	1.82	1.77
5	D	802	Y6Y	C10-S	4.78	1.82	1.77
4	A	801	ADP	O4'-C1'	-4.69	1.31	1.42
4	D	801	ADP	O4'-C1'	-4.68	1.31	1.42
4	F	801	ADP	O4'-C1'	-4.67	1.31	1.42
4	E	801	ADP	O4'-C1'	-4.66	1.31	1.42
4	C	801	ADP	O4'-C1'	-4.66	1.31	1.42
4	K	801	ADP	O4'-C1'	-4.64	1.31	1.42
4	H	801	ADP	O4'-C1'	-4.64	1.31	1.42
4	I	801	ADP	O4'-C1'	-4.64	1.31	1.42
4	J	801	ADP	O4'-C1'	-4.63	1.31	1.42
4	G	801	ADP	O4'-C1'	-4.63	1.31	1.42
4	L	801	ADP	O4'-C1'	-4.63	1.31	1.42
4	B	801	ADP	O4'-C1'	-4.63	1.31	1.42
4	E	801	ADP	C6-N6	4.54	1.45	1.34
4	F	801	ADP	C6-N6	4.54	1.45	1.34
4	D	801	ADP	C6-N6	4.53	1.45	1.34
4	A	801	ADP	C6-N6	4.53	1.45	1.34
4	G	801	ADP	C6-N6	4.53	1.45	1.34
4	J	801	ADP	C6-N6	4.52	1.45	1.34
4	B	801	ADP	C6-N6	4.52	1.45	1.34
4	I	801	ADP	C6-N6	4.52	1.45	1.34
4	C	801	ADP	C6-N6	4.52	1.45	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	C	802	Y6Y	C20-C21	-4.51	1.33	1.51
5	F	802	Y6Y	C20-C21	-4.51	1.33	1.51
4	K	801	ADP	C5-C6	4.50	1.53	1.41
4	E	801	ADP	C5-C6	4.50	1.53	1.41
5	E	802	Y6Y	C20-C21	-4.50	1.33	1.51
4	L	801	ADP	C5-C6	4.50	1.53	1.41
4	H	801	ADP	C5-C6	4.50	1.53	1.41
5	A	802	Y6Y	C20-C21	-4.50	1.33	1.51
4	C	801	ADP	C5-C6	4.49	1.53	1.41
5	B	802	Y6Y	C20-C21	-4.49	1.33	1.51
4	H	801	ADP	C6-N6	4.49	1.45	1.34
5	H	802	Y6Y	C10-S	4.49	1.81	1.77
4	K	801	ADP	C6-N6	4.48	1.45	1.34
5	D	802	Y6Y	C20-C21	-4.48	1.33	1.51
4	G	801	ADP	C5-C6	4.48	1.53	1.41
4	L	801	ADP	C6-N6	4.48	1.45	1.34
4	I	801	ADP	C5-C6	4.47	1.53	1.41
4	D	801	ADP	C5-C6	4.47	1.53	1.41
4	F	801	ADP	C5-C6	4.47	1.53	1.41
4	J	801	ADP	C5-C6	4.46	1.53	1.41
4	A	801	ADP	C5-C6	4.46	1.53	1.41
4	B	801	ADP	C5-C6	4.46	1.53	1.41
5	I	802	Y6Y	C10-S	4.45	1.81	1.77
5	J	802	Y6Y	C10-S	4.43	1.81	1.77
5	L	802	Y6Y	C10-S	4.43	1.81	1.77
5	K	802	Y6Y	C10-S	4.43	1.81	1.77
5	G	802	Y6Y	C10-S	4.42	1.81	1.77
5	H	802	Y6Y	C20-C21	-4.32	1.34	1.51
5	L	802	Y6Y	C20-C21	-4.32	1.34	1.51
5	J	802	Y6Y	C20-C21	-4.31	1.34	1.51
5	K	802	Y6Y	C20-C21	-4.31	1.34	1.51
5	I	802	Y6Y	C20-C21	-4.30	1.34	1.51
5	G	802	Y6Y	C20-C21	-4.28	1.34	1.51
5	B	802	Y6Y	C18-C17	-4.24	1.30	1.53
5	E	802	Y6Y	C18-C17	-4.24	1.30	1.53
5	F	802	Y6Y	C18-C17	-4.23	1.30	1.53
5	A	802	Y6Y	C18-C17	-4.22	1.30	1.53
5	C	802	Y6Y	C18-C17	-4.22	1.30	1.53
5	D	802	Y6Y	C18-C17	-4.22	1.30	1.53
5	K	802	Y6Y	C18-C17	-4.19	1.31	1.53
5	I	802	Y6Y	C18-C17	-4.18	1.31	1.53
5	J	802	Y6Y	C18-C17	-4.18	1.31	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	H	802	Y6Y	C18-C17	-4.18	1.31	1.53
5	L	802	Y6Y	C18-C17	-4.17	1.31	1.53
5	G	802	Y6Y	C18-C17	-4.17	1.31	1.53
4	E	801	ADP	C5-N7	-3.35	1.33	1.39
5	A	802	Y6Y	C17-S1	3.34	1.87	1.82
4	F	801	ADP	C5-N7	-3.33	1.33	1.39
4	J	801	ADP	C5-N7	-3.33	1.33	1.39
4	A	801	ADP	C5-N7	-3.33	1.33	1.39
4	G	801	ADP	C5-N7	-3.32	1.33	1.39
4	I	801	ADP	C5-N7	-3.30	1.33	1.39
4	K	801	ADP	C5-N7	-3.30	1.33	1.39
4	L	801	ADP	C5-N7	-3.30	1.33	1.39
4	H	801	ADP	C5-N7	-3.29	1.33	1.39
5	F	802	Y6Y	C17-S1	3.29	1.86	1.82
5	E	802	Y6Y	C17-S1	3.29	1.86	1.82
4	C	801	ADP	C5-N7	-3.29	1.33	1.39
4	D	801	ADP	C5-N7	-3.28	1.33	1.39
4	B	801	ADP	C5-N7	-3.27	1.33	1.39
5	C	802	Y6Y	C17-S1	3.26	1.86	1.82
5	D	802	Y6Y	C17-S1	3.26	1.86	1.82
5	B	802	Y6Y	C17-S1	3.26	1.86	1.82
5	L	802	Y6Y	C16-N2	-3.26	1.31	1.38
5	K	802	Y6Y	C16-N2	-3.24	1.31	1.38
5	J	802	Y6Y	C16-N2	-3.21	1.31	1.38
5	H	802	Y6Y	C16-N2	-3.21	1.31	1.38
5	G	802	Y6Y	C16-N2	-3.21	1.31	1.38
5	I	802	Y6Y	C16-N2	-3.21	1.31	1.38
4	F	801	ADP	O3'-C3'	2.87	1.50	1.43
4	B	801	ADP	O3'-C3'	2.87	1.50	1.43
4	C	801	ADP	O3'-C3'	2.86	1.50	1.43
4	E	801	ADP	O3'-C3'	2.86	1.50	1.43
4	A	801	ADP	O3'-C3'	2.86	1.50	1.43
4	D	801	ADP	O3'-C3'	2.84	1.50	1.43
4	L	801	ADP	O3'-C3'	2.82	1.49	1.43
4	H	801	ADP	O3'-C3'	2.81	1.49	1.43
4	G	801	ADP	O3'-C3'	2.81	1.49	1.43
4	J	801	ADP	O3'-C3'	2.81	1.49	1.43
4	K	801	ADP	O3'-C3'	2.80	1.49	1.43
4	K	801	ADP	O2'-C2'	-2.79	1.36	1.43
4	I	801	ADP	O3'-C3'	2.79	1.49	1.43
4	H	801	ADP	O2'-C2'	-2.79	1.36	1.43
4	J	801	ADP	O2'-C2'	-2.78	1.36	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	G	801	ADP	O2'-C2'	-2.76	1.36	1.43
4	L	801	ADP	O2'-C2'	-2.76	1.36	1.43
4	I	801	ADP	O2'-C2'	-2.74	1.36	1.43
4	F	801	ADP	O2'-C2'	-2.73	1.36	1.43
4	E	801	ADP	O2'-C2'	-2.72	1.36	1.43
4	D	801	ADP	O2'-C2'	-2.72	1.36	1.43
4	A	801	ADP	O2'-C2'	-2.71	1.36	1.43
4	C	801	ADP	O2'-C2'	-2.71	1.36	1.43
4	B	801	ADP	O2'-C2'	-2.69	1.36	1.43
5	I	802	Y6Y	C21-C17	2.67	1.67	1.53
5	L	802	Y6Y	C21-C17	2.67	1.67	1.53
5	K	802	Y6Y	C21-C17	2.67	1.67	1.53
5	H	802	Y6Y	C21-C17	2.67	1.67	1.53
5	J	802	Y6Y	C21-C17	2.66	1.67	1.53
5	G	802	Y6Y	C21-C17	2.65	1.67	1.53
4	A	801	ADP	C6-N1	2.64	1.43	1.35
4	B	801	ADP	C6-N1	2.64	1.43	1.35
4	F	801	ADP	C6-N1	2.63	1.43	1.35
4	C	801	ADP	C6-N1	2.63	1.43	1.35
4	I	801	ADP	C6-N1	2.62	1.43	1.35
5	F	802	Y6Y	O2-C3	2.61	1.43	1.37
5	D	802	Y6Y	O2-C3	2.61	1.43	1.37
4	D	801	ADP	C6-N1	2.60	1.43	1.35
4	E	801	ADP	C6-N1	2.60	1.43	1.35
4	H	801	ADP	C6-N1	2.60	1.43	1.35
4	L	801	ADP	C6-N1	2.59	1.43	1.35
4	J	801	ADP	C6-N1	2.59	1.43	1.35
4	G	801	ADP	C6-N1	2.59	1.43	1.35
4	K	801	ADP	C6-N1	2.57	1.43	1.35
5	B	802	Y6Y	O2-C3	2.57	1.43	1.37
5	D	802	Y6Y	C21-C17	2.57	1.66	1.53
5	F	802	Y6Y	C21-C17	2.57	1.66	1.53
5	B	802	Y6Y	C21-C17	2.56	1.66	1.53
5	C	802	Y6Y	C21-C17	2.56	1.66	1.53
5	E	802	Y6Y	C21-C17	2.56	1.66	1.53
5	A	802	Y6Y	C21-C17	2.56	1.66	1.53
5	C	802	Y6Y	O2-C3	2.55	1.43	1.37
5	A	802	Y6Y	O2-C3	2.55	1.43	1.37
5	E	802	Y6Y	O2-C3	2.53	1.43	1.37
5	F	802	Y6Y	C19-C18	2.26	1.61	1.51
5	A	802	Y6Y	C19-C18	2.26	1.61	1.51
5	D	802	Y6Y	C19-C18	2.26	1.61	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	E	802	Y6Y	C19-C18	2.26	1.61	1.51
5	C	802	Y6Y	C19-C18	2.24	1.60	1.51
5	B	802	Y6Y	C19-C18	2.23	1.60	1.51
5	F	802	Y6Y	C13-S	2.15	1.82	1.75
5	D	802	Y6Y	C16-N2	-2.15	1.33	1.38
5	E	802	Y6Y	C16-N2	-2.14	1.33	1.38
5	E	802	Y6Y	C13-S	2.14	1.82	1.75
5	A	802	Y6Y	C13-S	2.14	1.82	1.75
5	D	802	Y6Y	C13-S	2.13	1.82	1.75
5	C	802	Y6Y	C16-N2	-2.13	1.33	1.38
5	F	802	Y6Y	C16-N2	-2.13	1.33	1.38
5	B	802	Y6Y	C13-S	2.12	1.82	1.75
5	C	802	Y6Y	C13-S	2.12	1.82	1.75
5	B	802	Y6Y	C16-N2	-2.12	1.33	1.38
5	A	802	Y6Y	C16-N2	-2.12	1.33	1.38
5	H	802	Y6Y	C17-S1	2.11	1.85	1.82
4	J	801	ADP	C4-N9	-2.11	1.33	1.37
4	I	801	ADP	C4-N9	-2.09	1.33	1.37
4	L	801	ADP	C4-N9	-2.09	1.33	1.37
4	K	801	ADP	C4-N9	-2.09	1.33	1.37
5	J	802	Y6Y	C17-S1	2.08	1.85	1.82
5	L	802	Y6Y	C17-S1	2.06	1.85	1.82
4	H	801	ADP	C4-N9	-2.06	1.33	1.37
4	G	801	ADP	C4-N9	-2.05	1.33	1.37
5	K	802	Y6Y	C17-S1	2.04	1.85	1.82
5	L	802	Y6Y	C13-S	2.04	1.82	1.75
5	I	802	Y6Y	C17-S1	2.03	1.85	1.82
5	G	802	Y6Y	C17-S1	2.02	1.85	1.82
5	K	802	Y6Y	C13-S	2.02	1.82	1.75
5	G	802	Y6Y	C13-S	2.01	1.82	1.75
5	I	802	Y6Y	C13-S	2.01	1.82	1.75
5	J	802	Y6Y	C13-S	2.01	1.82	1.75
5	H	802	Y6Y	C13-S	2.01	1.82	1.75

All (229) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	J	802	Y6Y	O1-S-O	-11.45	98.57	117.99
5	I	802	Y6Y	O1-S-O	-11.44	98.58	117.99
5	G	802	Y6Y	O1-S-O	-11.44	98.58	117.99
5	H	802	Y6Y	O1-S-O	-11.43	98.60	117.99
5	K	802	Y6Y	O1-S-O	-11.43	98.60	117.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	L	802	Y6Y	O1-S-O	-11.42	98.62	117.99
5	E	802	Y6Y	O1-S-O	-9.61	101.70	117.99
5	D	802	Y6Y	O1-S-O	-9.60	101.72	117.99
5	C	802	Y6Y	O1-S-O	-9.59	101.72	117.99
5	A	802	Y6Y	O1-S-O	-9.57	101.75	117.99
5	F	802	Y6Y	O1-S-O	-9.57	101.76	117.99
5	B	802	Y6Y	O1-S-O	-9.56	101.78	117.99
5	A	802	Y6Y	C16-N2-C15	8.52	108.14	104.52
5	B	802	Y6Y	C16-N2-C15	8.49	108.12	104.52
5	D	802	Y6Y	C16-N2-C15	8.48	108.12	104.52
5	E	802	Y6Y	C16-N2-C15	8.46	108.11	104.52
5	F	802	Y6Y	C16-N2-C15	8.38	108.08	104.52
5	C	802	Y6Y	C16-N2-C15	8.35	108.06	104.52
5	G	802	Y6Y	C13-S-C10	6.96	112.22	104.55
5	I	802	Y6Y	C13-S-C10	6.96	112.21	104.55
5	K	802	Y6Y	C13-S-C10	6.95	112.20	104.55
5	J	802	Y6Y	C13-S-C10	6.94	112.20	104.55
5	H	802	Y6Y	C13-S-C10	6.94	112.19	104.55
5	L	802	Y6Y	C13-S-C10	6.94	112.19	104.55
4	C	801	ADP	N3-C2-N1	-5.76	119.86	128.58
4	K	801	ADP	N3-C2-N1	-5.75	119.88	128.58
4	J	801	ADP	N3-C2-N1	-5.75	119.88	128.58
4	E	801	ADP	N3-C2-N1	-5.74	119.89	128.58
4	L	801	ADP	N3-C2-N1	-5.74	119.89	128.58
4	H	801	ADP	N3-C2-N1	-5.73	119.90	128.58
4	A	801	ADP	N3-C2-N1	-5.73	119.91	128.58
4	G	801	ADP	N3-C2-N1	-5.73	119.91	128.58
4	B	801	ADP	N3-C2-N1	-5.73	119.91	128.58
4	I	801	ADP	N3-C2-N1	-5.73	119.92	128.58
4	D	801	ADP	N3-C2-N1	-5.72	119.92	128.58
4	F	801	ADP	N3-C2-N1	-5.72	119.93	128.58
5	G	802	Y6Y	C16-N2-C15	5.42	106.82	104.52
5	H	802	Y6Y	C16-N2-C15	5.39	106.81	104.52
5	K	802	Y6Y	C16-N2-C15	5.38	106.80	104.52
5	L	802	Y6Y	C16-N2-C15	5.37	106.80	104.52
5	J	802	Y6Y	C16-N2-C15	5.36	106.79	104.52
5	I	802	Y6Y	C16-N2-C15	5.34	106.78	104.52
4	A	801	ADP	C5-C4-N3	-5.17	119.60	126.72
4	C	801	ADP	C5-C4-N3	-5.15	119.63	126.72
4	D	801	ADP	C5-C4-N3	-5.14	119.64	126.72
4	B	801	ADP	C5-C4-N3	-5.13	119.66	126.72
4	E	801	ADP	C5-C4-N3	-5.12	119.67	126.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	F	801	ADP	C5-C4-N3	-5.11	119.68	126.72
4	J	801	ADP	C5-C4-N3	-4.93	119.93	126.72
4	I	801	ADP	C5-C4-N3	-4.93	119.93	126.72
4	K	801	ADP	C5-C4-N3	-4.91	119.95	126.72
4	L	801	ADP	C5-C4-N3	-4.89	119.99	126.72
4	G	801	ADP	C5-C4-N3	-4.89	119.99	126.72
4	H	801	ADP	C5-C4-N3	-4.88	120.00	126.72
5	E	802	Y6Y	N2-C15-N	-4.82	107.33	110.43
5	A	802	Y6Y	N2-C15-N	-4.82	107.33	110.43
5	B	802	Y6Y	N2-C15-N	-4.81	107.33	110.43
5	C	802	Y6Y	N2-C15-N	-4.80	107.34	110.43
5	D	802	Y6Y	N2-C15-N	-4.79	107.35	110.43
5	F	802	Y6Y	N2-C15-N	-4.75	107.37	110.43
5	J	802	Y6Y	O-S-C10	4.71	111.89	108.23
5	G	802	Y6Y	O-S-C10	4.70	111.89	108.23
5	I	802	Y6Y	O-S-C10	4.70	111.88	108.23
5	K	802	Y6Y	O-S-C10	4.70	111.88	108.23
5	H	802	Y6Y	O-S-C10	4.67	111.86	108.23
5	C	802	Y6Y	O1-S-C10	4.67	111.86	108.23
5	L	802	Y6Y	O-S-C10	4.65	111.85	108.23
5	F	802	Y6Y	O1-S-C10	4.63	111.82	108.23
5	D	802	Y6Y	O1-S-C10	4.61	111.82	108.23
5	B	802	Y6Y	O1-S-C10	4.61	111.81	108.23
5	A	802	Y6Y	O1-S-C10	4.59	111.79	108.23
5	E	802	Y6Y	O1-S-C10	4.57	111.78	108.23
5	E	802	Y6Y	C13-S-C10	4.16	109.13	104.55
5	D	802	Y6Y	C13-S-C10	4.15	109.12	104.55
5	F	802	Y6Y	C13-S-C10	4.15	109.12	104.55
5	A	802	Y6Y	C13-S-C10	4.14	109.11	104.55
5	C	802	Y6Y	C13-S-C10	4.14	109.11	104.55
5	A	802	Y6Y	O-S-C10	4.13	111.44	108.23
5	E	802	Y6Y	O-S-C10	4.12	111.43	108.23
5	B	802	Y6Y	C13-S-C10	4.12	109.09	104.55
5	B	802	Y6Y	O-S-C10	4.10	111.41	108.23
5	D	802	Y6Y	O-S-C10	4.09	111.41	108.23
5	F	802	Y6Y	O-S-C10	4.07	111.39	108.23
5	C	802	Y6Y	O-S-C10	4.06	111.39	108.23
5	I	802	Y6Y	O-S-C13	3.97	114.29	108.47
5	H	802	Y6Y	O-S-C13	3.95	114.26	108.47
5	J	802	Y6Y	O-S-C13	3.94	114.25	108.47
5	L	802	Y6Y	O-S-C13	3.94	114.24	108.47
5	G	802	Y6Y	O-S-C13	3.92	114.22	108.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	K	802	Y6Y	O-S-C13	3.92	114.22	108.47
4	I	801	ADP	N9-C8-N7	-3.91	108.39	113.94
4	L	801	ADP	N9-C8-N7	-3.90	108.40	113.94
4	G	801	ADP	N9-C8-N7	-3.89	108.42	113.94
4	H	801	ADP	N9-C8-N7	-3.88	108.43	113.94
4	K	801	ADP	N9-C8-N7	-3.86	108.46	113.94
4	J	801	ADP	N9-C8-N7	-3.86	108.46	113.94
4	F	801	ADP	N9-C8-N7	-3.82	108.51	113.94
4	C	801	ADP	N9-C8-N7	-3.80	108.55	113.94
4	D	801	ADP	N9-C8-N7	-3.80	108.55	113.94
4	E	801	ADP	N9-C8-N7	-3.79	108.55	113.94
4	A	801	ADP	N9-C8-N7	-3.79	108.55	113.94
4	B	801	ADP	N9-C8-N7	-3.78	108.57	113.94
5	K	802	Y6Y	N2-C15-N	-3.62	108.10	110.43
5	L	802	Y6Y	N2-C15-N	-3.59	108.12	110.43
5	G	802	Y6Y	N2-C15-N	-3.58	108.13	110.43
5	I	802	Y6Y	N2-C15-N	-3.56	108.14	110.43
5	J	802	Y6Y	N2-C15-N	-3.56	108.14	110.43
5	H	802	Y6Y	N2-C15-N	-3.52	108.17	110.43
5	A	802	Y6Y	N2-C16-N1	-3.46	107.66	110.88
5	D	802	Y6Y	N2-C16-N1	-3.46	107.66	110.88
5	B	802	Y6Y	N2-C16-N1	-3.43	107.69	110.88
5	E	802	Y6Y	N2-C16-N1	-3.43	107.69	110.88
5	F	802	Y6Y	N2-C16-N1	-3.41	107.70	110.88
4	C	801	ADP	C2-N3-C4	3.41	120.16	111.83
4	A	801	ADP	C2-N3-C4	3.41	120.16	111.83
5	C	802	Y6Y	N2-C16-N1	-3.41	107.71	110.88
4	B	801	ADP	C2-N3-C4	3.40	120.13	111.83
4	D	801	ADP	C2-N3-C4	3.40	120.13	111.83
4	E	801	ADP	C2-N3-C4	3.40	120.13	111.83
4	F	801	ADP	C2-N3-C4	3.38	120.08	111.83
4	J	801	ADP	C2-N3-C4	3.36	120.03	111.83
4	I	801	ADP	C2-N3-C4	3.35	120.00	111.83
4	K	801	ADP	C2-N3-C4	3.35	120.00	111.83
4	H	801	ADP	C2-N3-C4	3.34	119.99	111.83
4	G	801	ADP	C2-N3-C4	3.34	119.98	111.83
4	L	801	ADP	C2-N3-C4	3.34	119.98	111.83
4	C	801	ADP	N3-C4-N9	3.28	132.75	127.17
4	D	801	ADP	N3-C4-N9	3.28	132.75	127.17
4	E	801	ADP	N3-C4-N9	3.28	132.74	127.17
4	A	801	ADP	N3-C4-N9	3.28	132.74	127.17
4	B	801	ADP	N3-C4-N9	3.27	132.73	127.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	F	801	ADP	N3-C4-N9	3.26	132.71	127.17
5	J	802	Y6Y	C22-N2-C15	3.10	132.19	127.02
5	H	802	Y6Y	C22-N2-C15	3.10	132.19	127.02
5	G	802	Y6Y	C22-N2-C15	3.08	132.17	127.02
5	I	802	Y6Y	C22-N2-C15	3.08	132.16	127.02
5	L	802	Y6Y	C22-N2-C15	3.07	132.15	127.02
5	K	802	Y6Y	C22-N2-C15	3.04	132.10	127.02
4	G	801	ADP	N3-C4-N9	2.99	132.25	127.17
4	I	801	ADP	N3-C4-N9	2.99	132.25	127.17
4	J	801	ADP	N3-C4-N9	2.99	132.25	127.17
4	K	801	ADP	N3-C4-N9	2.97	132.21	127.17
4	H	801	ADP	N3-C4-N9	2.96	132.21	127.17
4	L	801	ADP	N3-C4-N9	2.96	132.20	127.17
4	G	801	ADP	C5-N7-C8	2.81	107.87	103.45
4	I	801	ADP	C5-N7-C8	2.78	107.82	103.45
4	H	801	ADP	C5-N7-C8	2.78	107.81	103.45
4	L	801	ADP	C5-N7-C8	2.77	107.81	103.45
4	J	801	ADP	C5-N7-C8	2.77	107.80	103.45
4	K	801	ADP	C5-N7-C8	2.77	107.80	103.45
4	D	801	ADP	C5-N7-C8	2.76	107.80	103.45
4	C	801	ADP	C5-N7-C8	2.76	107.79	103.45
4	B	801	ADP	C5-N7-C8	2.76	107.78	103.45
4	A	801	ADP	C5-N7-C8	2.75	107.77	103.45
4	E	801	ADP	C5-N7-C8	2.75	107.77	103.45
4	F	801	ADP	C5-N7-C8	2.73	107.75	103.45
5	E	802	Y6Y	C14-C15-N2	2.73	127.81	124.21
5	D	802	Y6Y	C14-C15-N2	2.73	127.81	124.21
5	B	802	Y6Y	C14-C15-N2	2.73	127.81	124.21
5	A	802	Y6Y	C14-C15-N2	2.72	127.80	124.21
5	C	802	Y6Y	C14-C15-N2	2.71	127.79	124.21
5	F	802	Y6Y	C14-C15-N2	2.71	127.79	124.21
5	L	802	Y6Y	C8-C7-C6	-2.51	116.75	120.91
5	I	802	Y6Y	C8-C7-C6	-2.50	116.77	120.91
5	H	802	Y6Y	C8-C7-C6	-2.50	116.77	120.91
5	A	802	Y6Y	S1-C16-N2	2.49	126.08	121.20
5	G	802	Y6Y	C8-C7-C6	-2.49	116.78	120.91
5	B	802	Y6Y	S1-C16-N2	2.49	126.07	121.20
5	J	802	Y6Y	C8-C7-C6	-2.49	116.79	120.91
4	C	801	ADP	C6-C5-C4	2.48	120.56	117.18
5	D	802	Y6Y	S1-C16-N2	2.47	126.04	121.20
4	A	801	ADP	C6-C5-C4	2.47	120.56	117.18
5	E	802	Y6Y	S1-C16-N2	2.47	126.04	121.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	K	802	Y6Y	C8-C7-C6	-2.47	116.82	120.91
4	B	801	ADP	C6-C5-C4	2.47	120.55	117.18
4	D	801	ADP	C6-C5-C4	2.46	120.54	117.18
5	F	802	Y6Y	S1-C16-N2	2.46	126.01	121.20
5	C	802	Y6Y	S1-C16-N2	2.46	126.01	121.20
4	F	801	ADP	C6-C5-C4	2.44	120.51	117.18
4	E	801	ADP	C6-C5-C4	2.43	120.50	117.18
4	I	801	ADP	C6-C5-C4	2.35	120.38	117.18
4	L	801	ADP	C6-C5-C4	2.33	120.35	117.18
4	K	801	ADP	C6-C5-C4	2.32	120.35	117.18
4	J	801	ADP	C6-C5-C4	2.32	120.34	117.18
4	H	801	ADP	C6-C5-C4	2.30	120.32	117.18
4	G	801	ADP	C6-C5-C4	2.27	120.28	117.18
5	C	802	Y6Y	O1-S-C13	2.25	111.77	108.47
5	F	802	Y6Y	O1-S-C13	2.24	111.75	108.47
5	K	802	Y6Y	C14-C15-N2	2.23	127.16	124.21
5	D	802	Y6Y	O1-S-C13	2.23	111.73	108.47
5	B	802	Y6Y	O1-S-C13	2.22	111.73	108.47
5	E	802	Y6Y	O1-S-C13	2.22	111.73	108.47
5	G	802	Y6Y	C14-C15-N2	2.22	127.14	124.21
5	I	802	Y6Y	C14-C15-N2	2.22	127.14	124.21
5	A	802	Y6Y	O1-S-C13	2.22	111.72	108.47
5	H	802	Y6Y	C14-C15-N2	2.22	127.13	124.21
5	J	802	Y6Y	C14-C15-N2	2.22	127.13	124.21
5	L	802	Y6Y	C14-C15-N2	2.22	127.13	124.21
4	J	801	ADP	C4-C5-N7	-2.17	108.10	110.58
4	K	801	ADP	C4-C5-N7	-2.17	108.11	110.58
4	G	801	ADP	C4-C5-N7	-2.16	108.12	110.58
4	I	801	ADP	C4-C5-N7	-2.15	108.12	110.58
4	L	801	ADP	C4-C5-N7	-2.15	108.12	110.58
4	H	801	ADP	C4-C5-N7	-2.14	108.14	110.58
5	I	802	Y6Y	C26-C22-N2	2.10	122.17	119.65
5	C	802	Y6Y	C26-C22-N2	2.09	122.16	119.65
5	K	802	Y6Y	C26-C22-N2	2.09	122.15	119.65
5	F	802	Y6Y	C26-C22-N2	2.09	122.15	119.65
5	D	802	Y6Y	C26-C22-N2	2.07	122.13	119.65
5	G	802	Y6Y	C26-C22-N2	2.07	122.13	119.65
5	A	802	Y6Y	C26-C22-N2	2.06	122.11	119.65
5	L	802	Y6Y	C26-C22-N2	2.06	122.11	119.65
5	J	802	Y6Y	C26-C22-N2	2.05	122.11	119.65
4	C	801	ADP	C4'-O4'-C1'	-2.05	104.95	109.47
4	D	801	ADP	C4'-O4'-C1'	-2.04	104.95	109.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	E	802	Y6Y	C26-C22-N2	2.04	122.10	119.65
4	B	801	ADP	C4'-O4'-C1'	-2.04	104.97	109.47
5	B	802	Y6Y	C26-C22-N2	2.03	122.08	119.65
5	H	802	Y6Y	C26-C22-N2	2.03	122.08	119.65
4	A	801	ADP	C4'-O4'-C1'	-2.03	104.99	109.47
4	F	801	ADP	C4'-O4'-C1'	-2.03	104.99	109.47
4	A	801	ADP	C4-C5-N7	-2.02	108.27	110.58
4	E	801	ADP	C4'-O4'-C1'	-2.02	105.00	109.47
4	C	801	ADP	C4-C5-N7	-2.02	108.27	110.58
4	I	801	ADP	C4-N9-C8	2.01	107.85	105.74
4	L	801	ADP	C4-N9-C8	2.01	107.85	105.74
4	B	801	ADP	C4-C5-N7	-2.01	108.28	110.58
4	D	801	ADP	C4-C5-N7	-2.01	108.28	110.58
4	G	801	ADP	C4-N9-C8	2.00	107.84	105.74

There are no chirality outliers.

All (222) 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
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	A	802	Y6Y	C23-C22-N2-C15
5	A	802	Y6Y	C23-C22-N2-C16
5	B	802	Y6Y	C18-C17-S1-C16
5	B	802	Y6Y	C23-C22-N2-C15
5	B	802	Y6Y	C23-C22-N2-C16
5	C	802	Y6Y	C18-C17-S1-C16
5	C	802	Y6Y	C23-C22-N2-C15
5	C	802	Y6Y	C23-C22-N2-C16
5	D	802	Y6Y	C18-C17-S1-C16
5	D	802	Y6Y	C23-C22-N2-C15

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Mol	Chain	Res	Type	Atoms
5	D	802	Y6Y	C23-C22-N2-C16
5	E	802	Y6Y	C18-C17-S1-C16
5	E	802	Y6Y	C23-C22-N2-C15
5	E	802	Y6Y	C23-C22-N2-C16
5	F	802	Y6Y	C18-C17-S1-C16
5	F	802	Y6Y	C23-C22-N2-C15
5	F	802	Y6Y	C23-C22-N2-C16
5	G	802	Y6Y	O2-C14-C15-N
5	G	802	Y6Y	C18-C17-S1-C16
5	H	802	Y6Y	O2-C14-C15-N
5	H	802	Y6Y	C18-C17-S1-C16
5	I	802	Y6Y	O2-C14-C15-N
5	I	802	Y6Y	C18-C17-S1-C16
5	J	802	Y6Y	O2-C14-C15-N
5	J	802	Y6Y	C18-C17-S1-C16
5	K	802	Y6Y	O2-C14-C15-N
5	K	802	Y6Y	C18-C17-S1-C16
5	L	802	Y6Y	O2-C14-C15-N
5	L	802	Y6Y	C18-C17-S1-C16
5	A	802	Y6Y	C26-C22-N2-C16
5	B	802	Y6Y	C26-C22-N2-C16
5	C	802	Y6Y	C26-C22-N2-C16
5	D	802	Y6Y	C26-C22-N2-C16
5	E	802	Y6Y	C26-C22-N2-C16
5	F	802	Y6Y	C26-C22-N2-C16
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

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Mol	Chain	Res	Type	Atoms
5	F	802	Y6Y	C9-C10-S-O
5	G	802	Y6Y	C11-C10-S-O
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
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	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	O2-C14-C15-N2
5	H	802	Y6Y	O2-C14-C15-N2
5	I	802	Y6Y	O2-C14-C15-N2
5	J	802	Y6Y	O2-C14-C15-N2
5	K	802	Y6Y	O2-C14-C15-N2

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Mol	Chain	Res	Type	Atoms
5	L	802	Y6Y	O2-C14-C15-N2
5	A	802	Y6Y	C26-C22-N2-C15
5	C	802	Y6Y	C26-C22-N2-C15
5	E	802	Y6Y	C26-C22-N2-C15
5	B	802	Y6Y	C26-C22-N2-C15
5	D	802	Y6Y	C26-C22-N2-C15
5	F	802	Y6Y	C26-C22-N2-C15
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
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
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
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-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

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Mol	Chain	Res	Type	Atoms
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	E	802	Y6Y	C4-C3-O2-C14
5	C	802	Y6Y	C1-C6-C7-C8
5	D	802	Y6Y	C1-C6-C7-C8
5	B	802	Y6Y	C1-C6-C7-C8
5	F	802	Y6Y	C1-C6-C7-C8
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	A	802	Y6Y	C2-C3-O2-C14
5	B	802	Y6Y	C2-C3-O2-C14
5	D	802	Y6Y	C2-C3-O2-C14
5	H	802	Y6Y	C1-C6-C7-C12
5	I	802	Y6Y	C1-C6-C7-C12
5	K	802	Y6Y	C1-C6-C7-C12
5	C	802	Y6Y	C2-C3-O2-C14
5	E	802	Y6Y	C2-C3-O2-C14
5	F	802	Y6Y	C2-C3-O2-C14
5	G	802	Y6Y	C1-C6-C7-C8
5	I	802	Y6Y	C1-C6-C7-C8
5	L	802	Y6Y	C1-C6-C7-C8
5	H	802	Y6Y	C1-C6-C7-C8
5	J	802	Y6Y	C1-C6-C7-C8
5	K	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

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Mol	Chain	Res	Type	Atoms
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	L	802	Y6Y	C5-C6-C7-C12
5	K	802	Y6Y	C5-C6-C7-C12
5	I	802	Y6Y	C5-C6-C7-C12
5	B	802	Y6Y	C5-C6-C7-C8
5	C	802	Y6Y	C5-C6-C7-C8
5	D	802	Y6Y	C5-C6-C7-C8
5	E	802	Y6Y	C5-C6-C7-C8
5	F	802	Y6Y	C5-C6-C7-C8
5	A	802	Y6Y	C5-C6-C7-C8
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	C2'-C1'-N9-C8
4	B	801	ADP	C2'-C1'-N9-C8
4	C	801	ADP	C2'-C1'-N9-C8
4	D	801	ADP	C2'-C1'-N9-C8
4	E	801	ADP	C2'-C1'-N9-C8
4	F	801	ADP	C2'-C1'-N9-C8
5	E	802	Y6Y	C5-C6-C7-C12
5	A	802	Y6Y	C5-C6-C7-C12
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

There are no ring outliers.

24 monomers are involved in 118 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	L	802	Y6Y	7	0
5	H	802	Y6Y	7	0
4	A	801	ADP	3	0
4	E	801	ADP	3	0
5	A	802	Y6Y	7	0
5	J	802	Y6Y	7	0

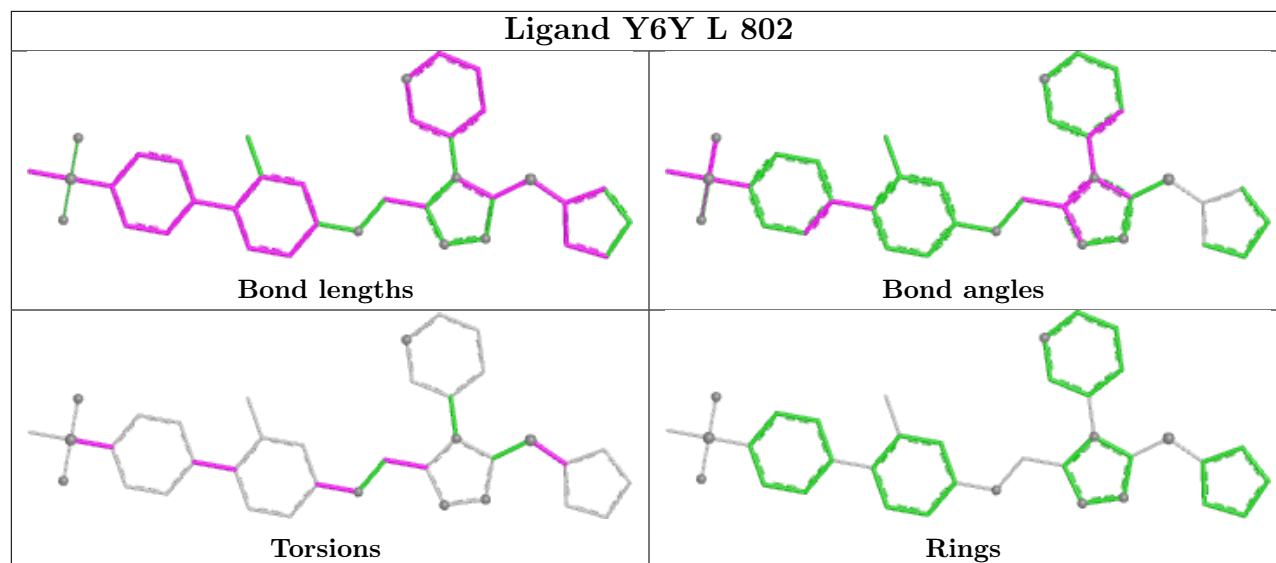
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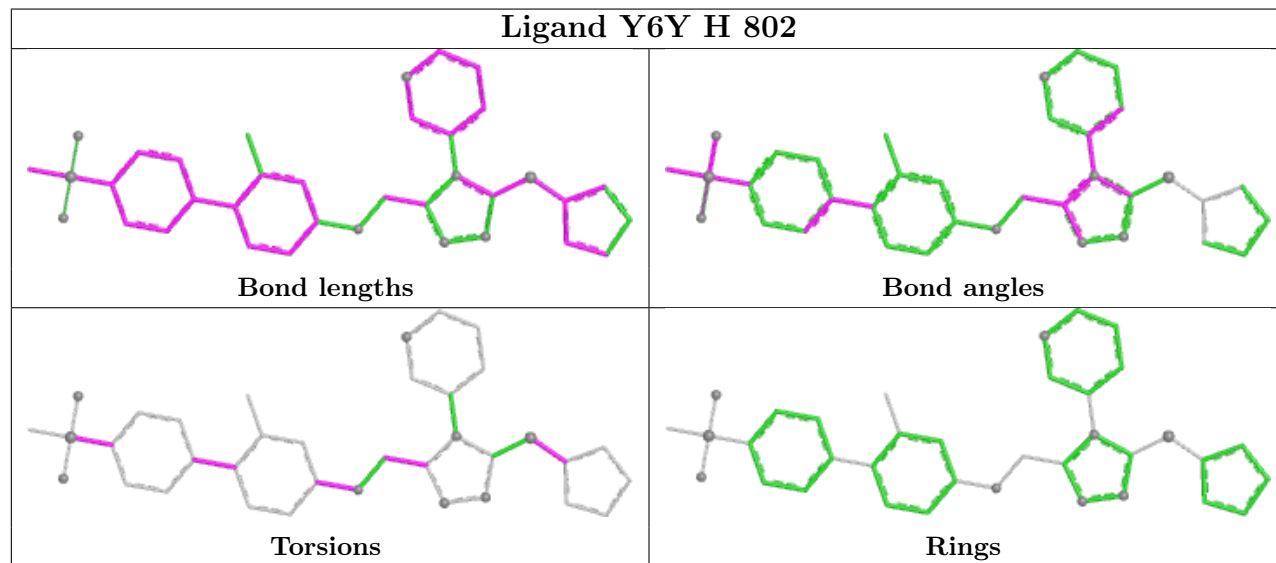
Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	C	802	Y6Y	7	0
4	I	801	ADP	3	0
4	L	801	ADP	3	0
4	G	801	ADP	3	0
5	F	802	Y6Y	7	0
5	E	802	Y6Y	6	0
5	G	802	Y6Y	7	0
4	B	801	ADP	3	0
4	C	801	ADP	3	0
5	I	802	Y6Y	7	0
4	H	801	ADP	3	0
5	K	802	Y6Y	7	0
5	D	802	Y6Y	6	0
4	F	801	ADP	3	0
4	K	801	ADP	3	0
5	B	802	Y6Y	7	0
4	J	801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

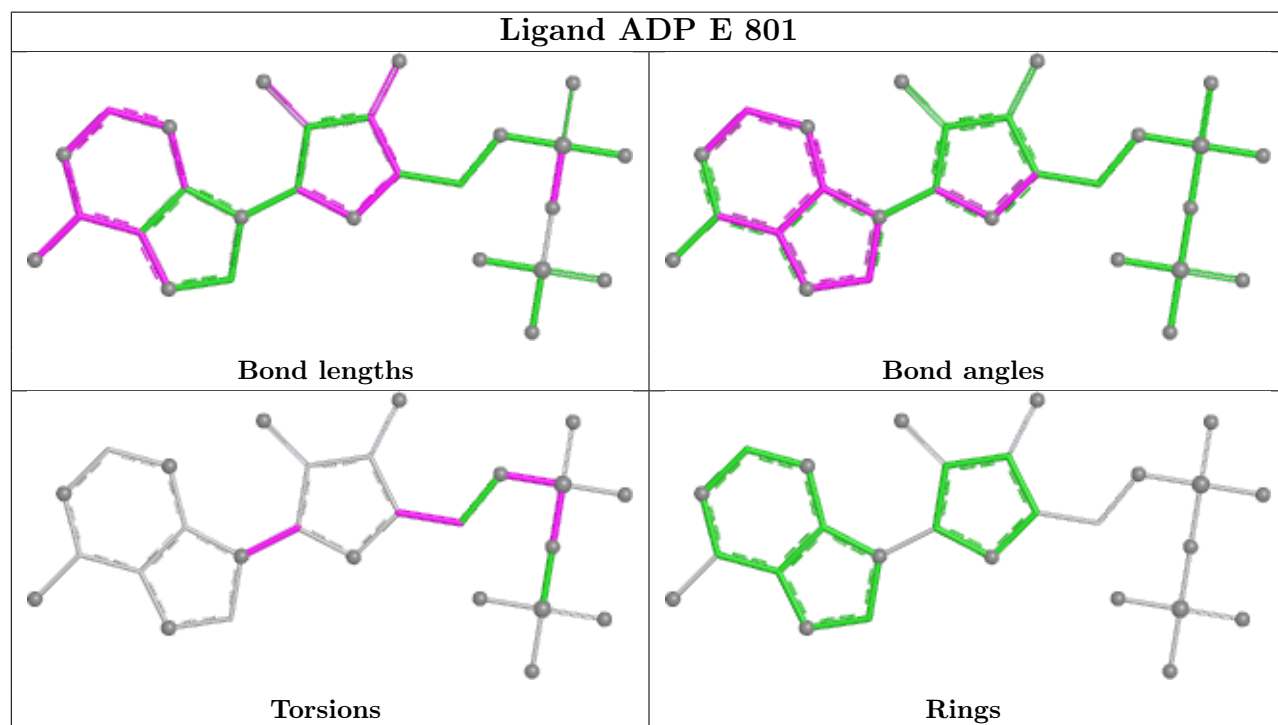
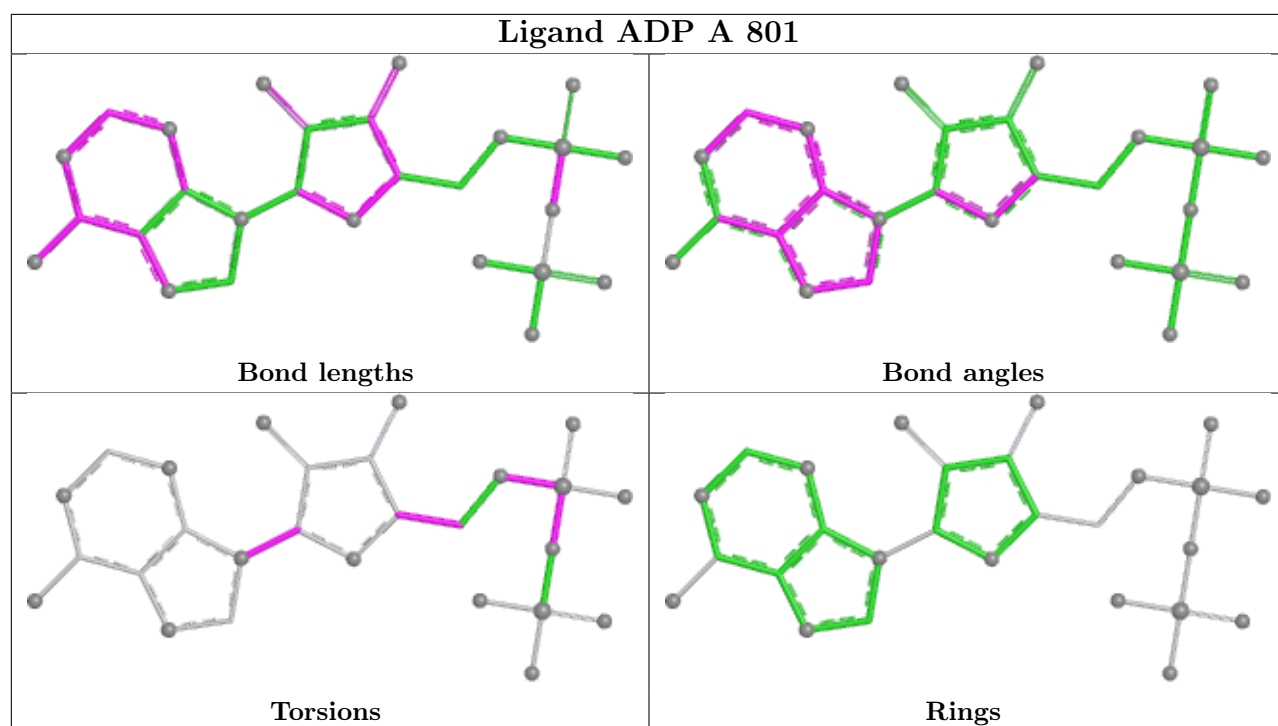
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. 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 L 802

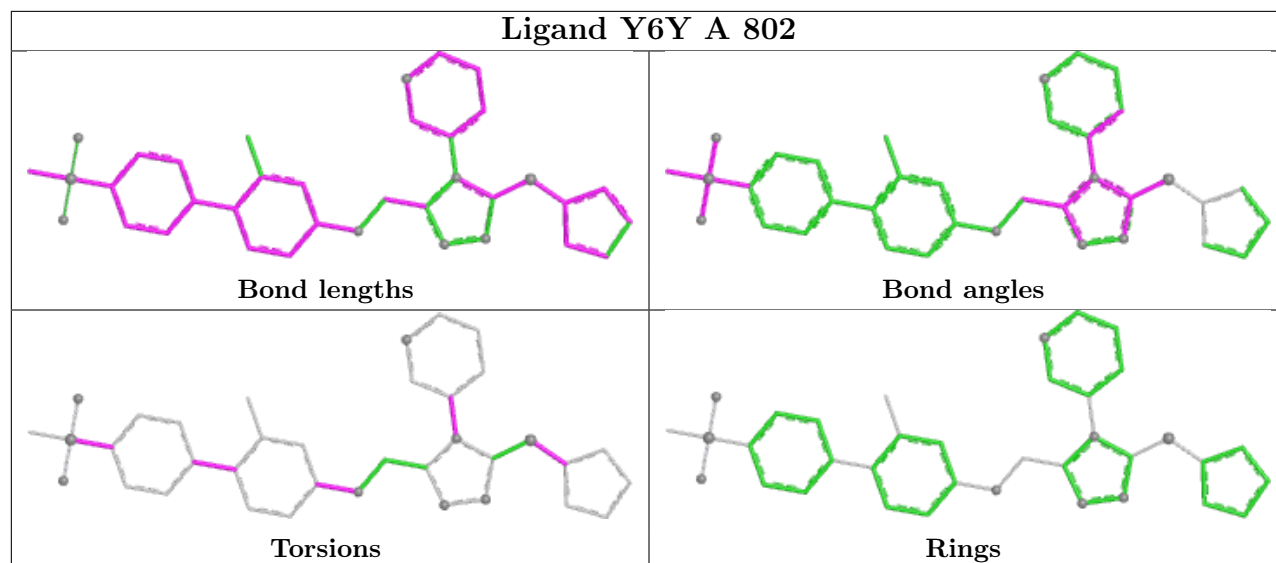


Ligand Y6Y H 802

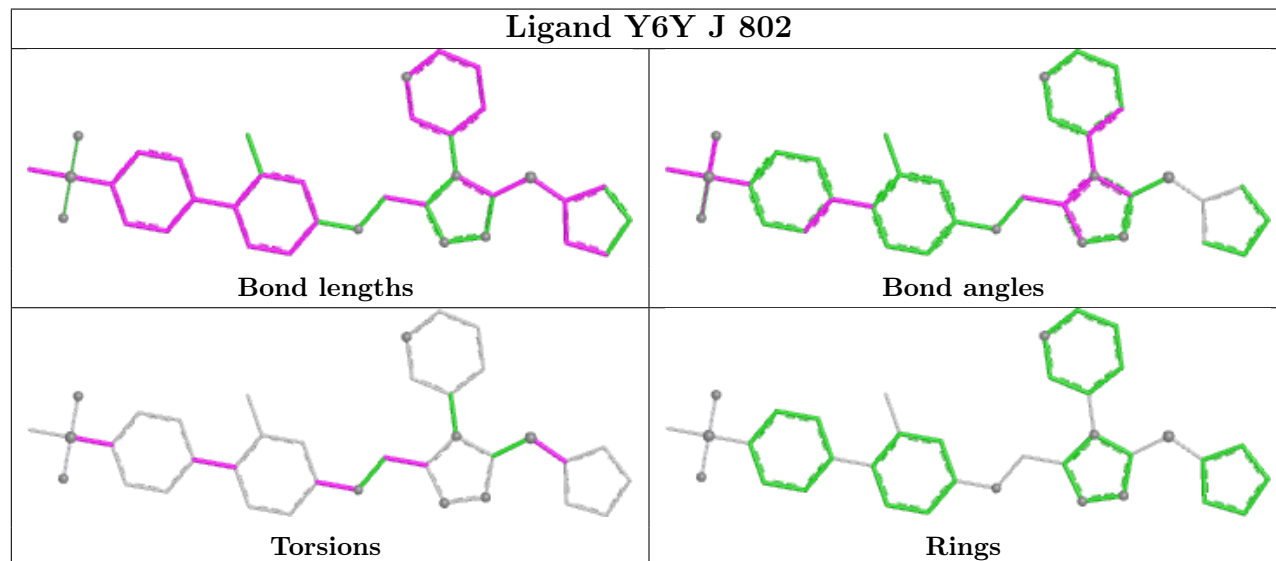




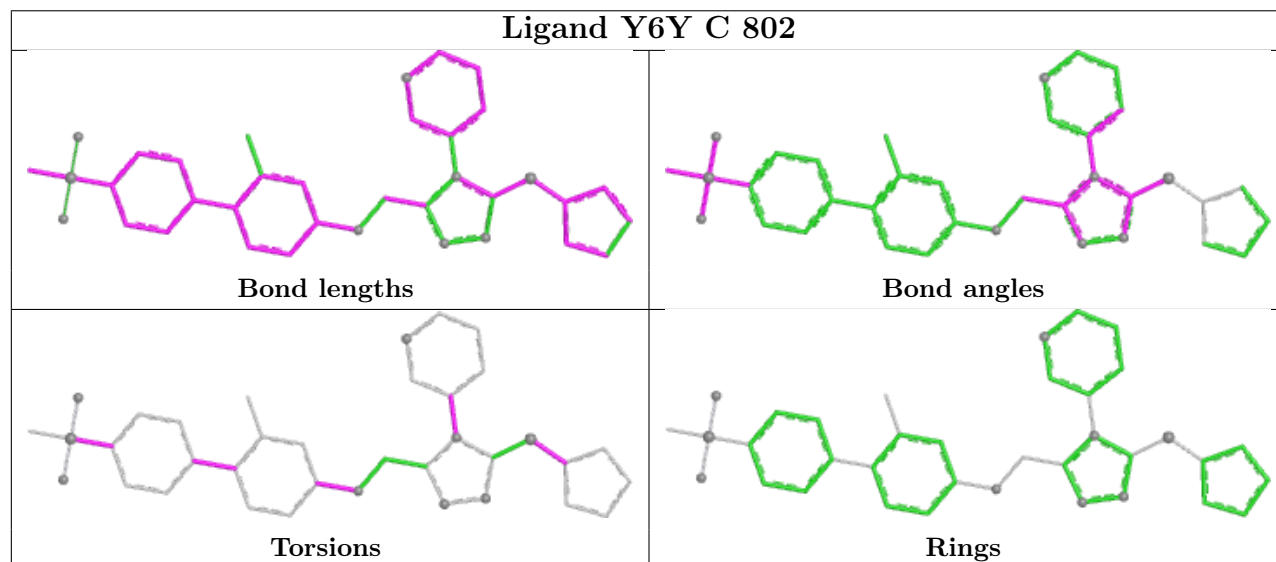
Ligand Y6Y A 802

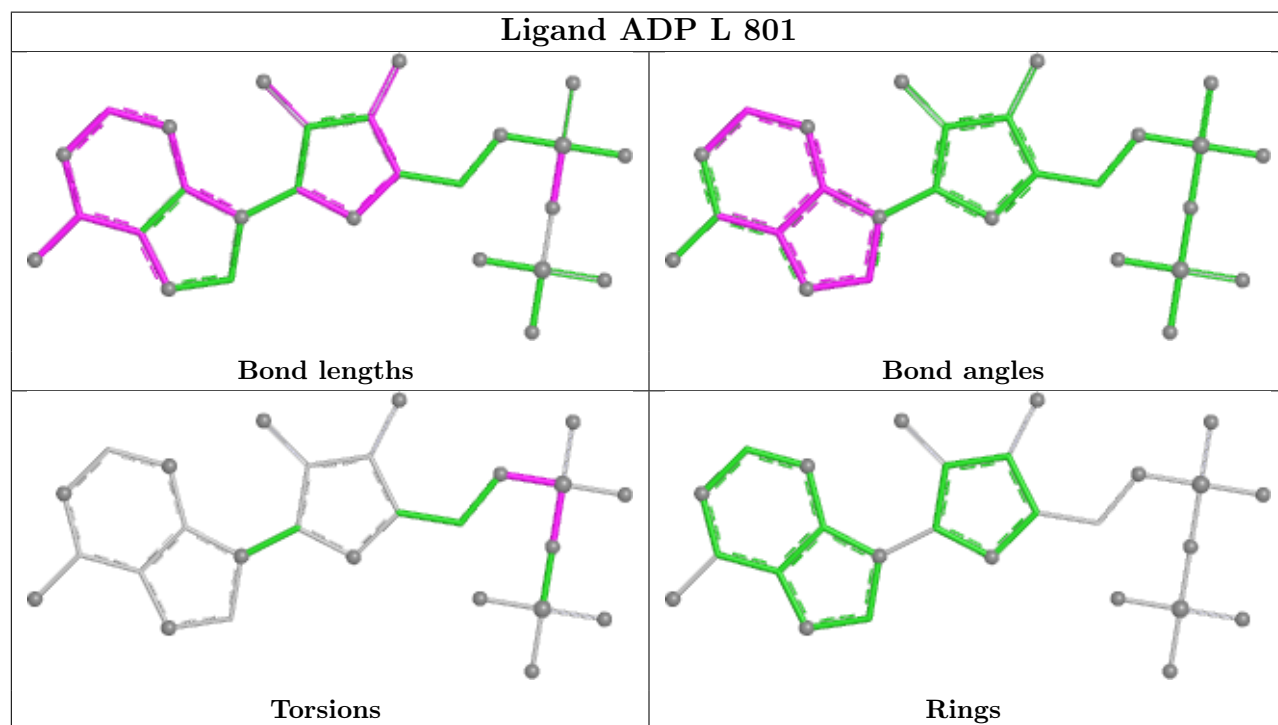
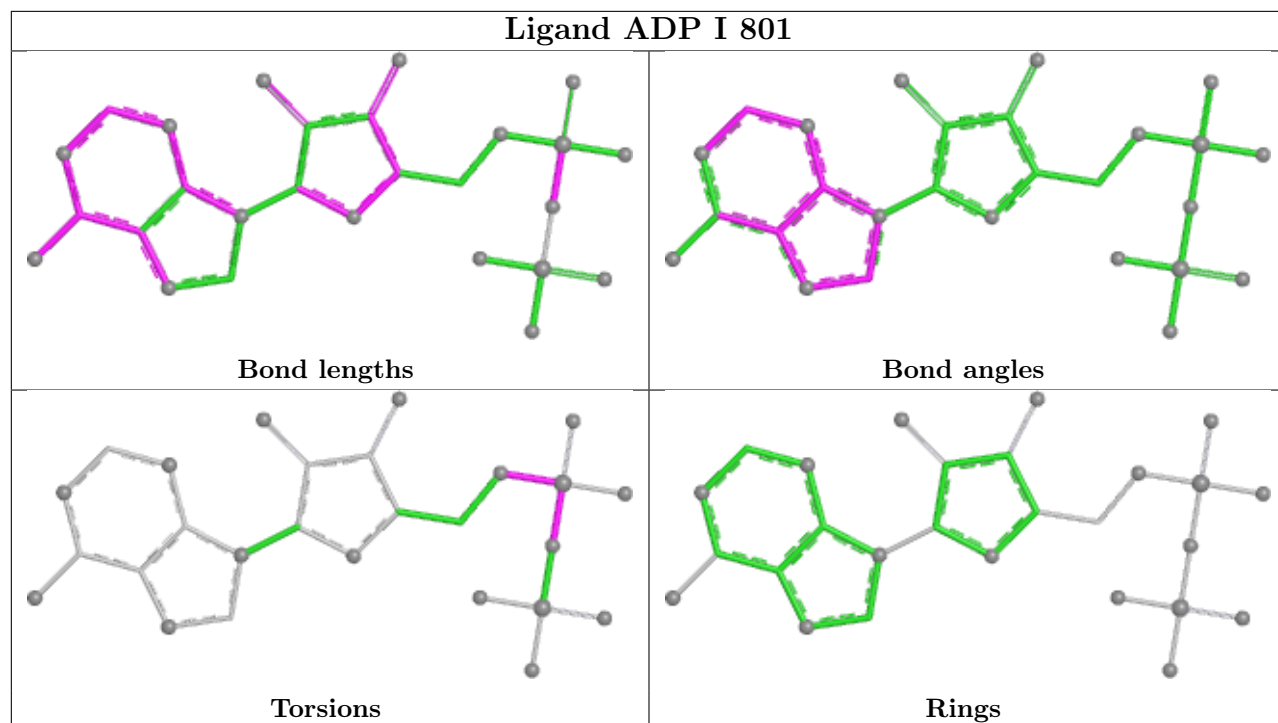


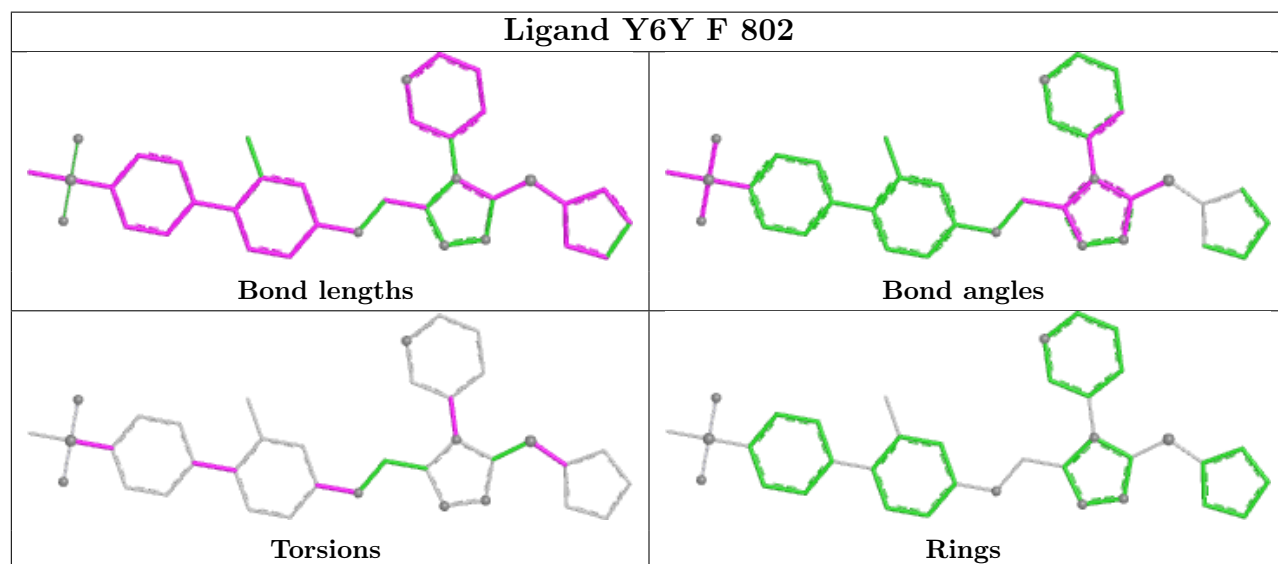
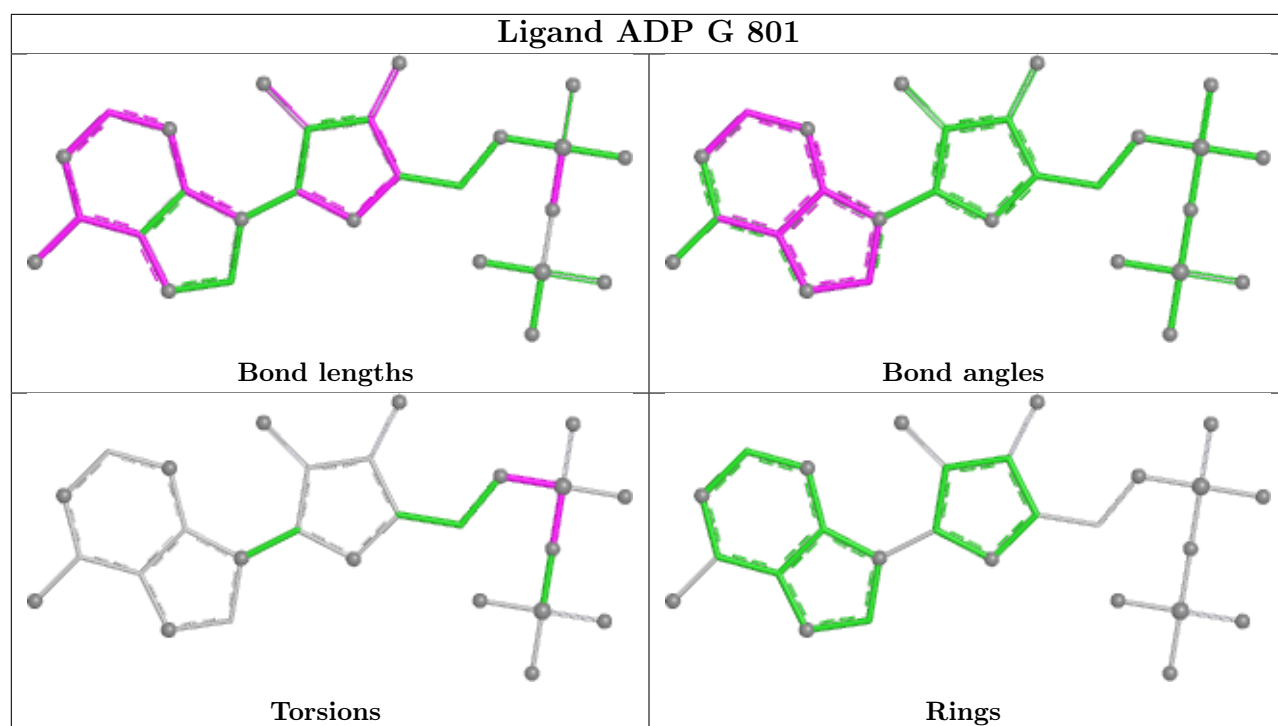
Ligand Y6Y J 802



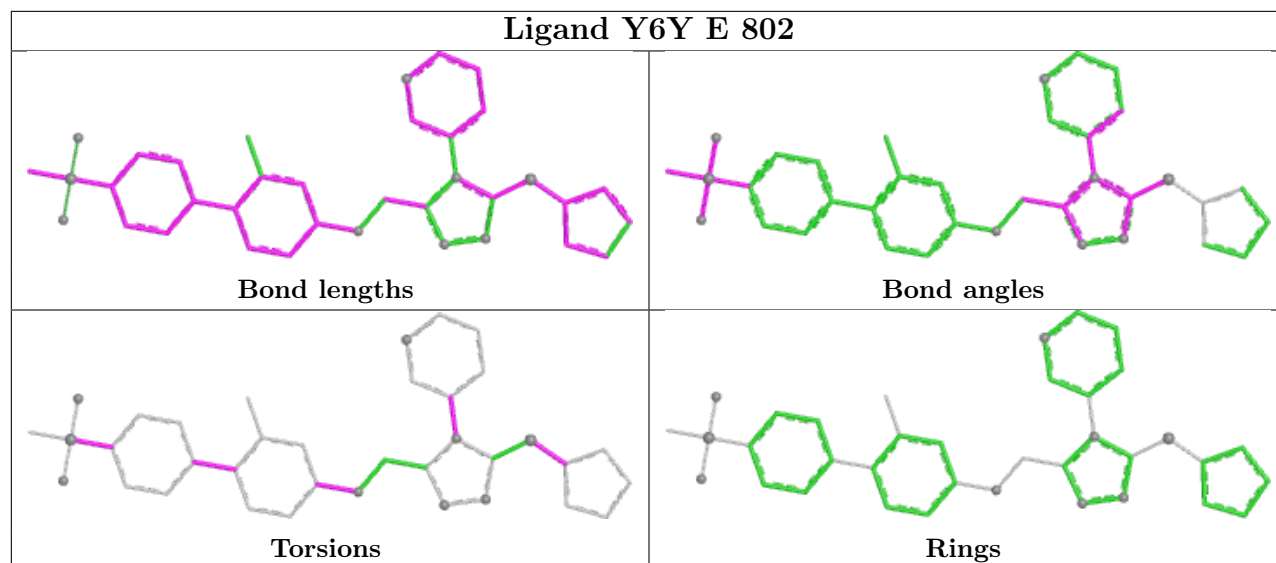
Ligand Y6Y C 802



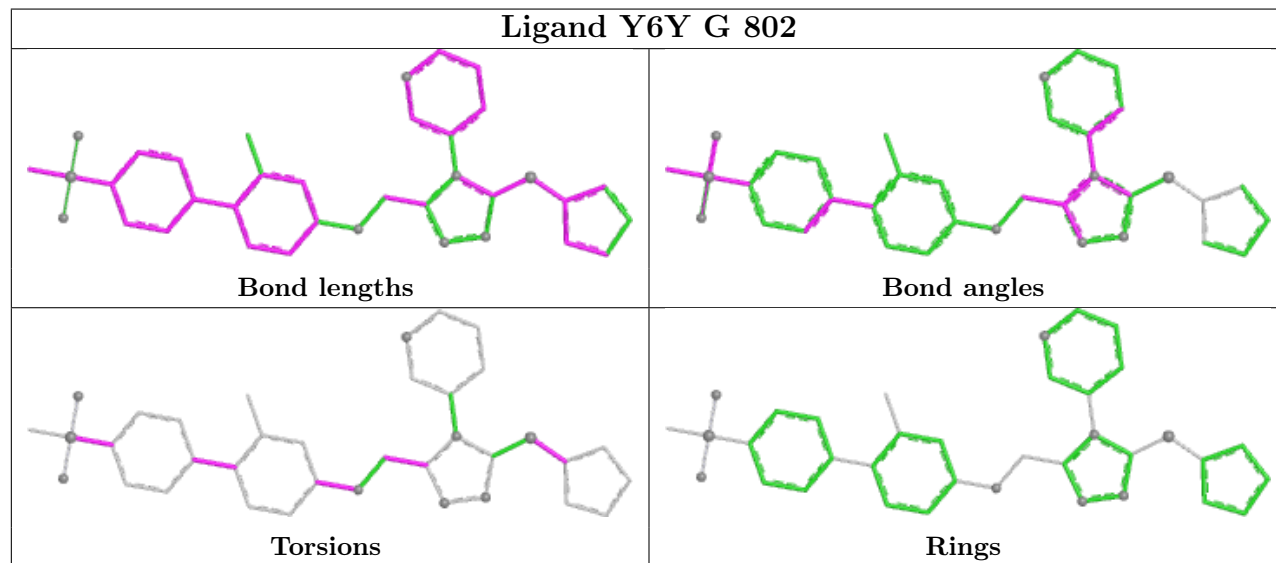


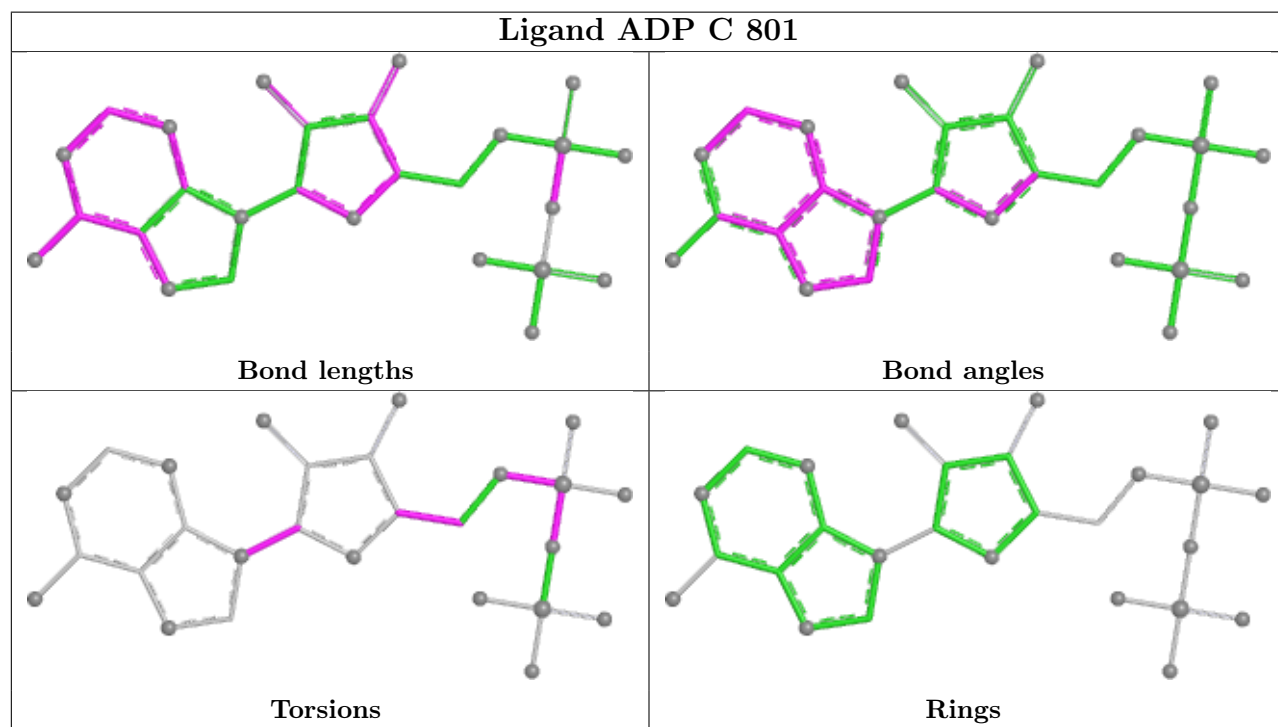
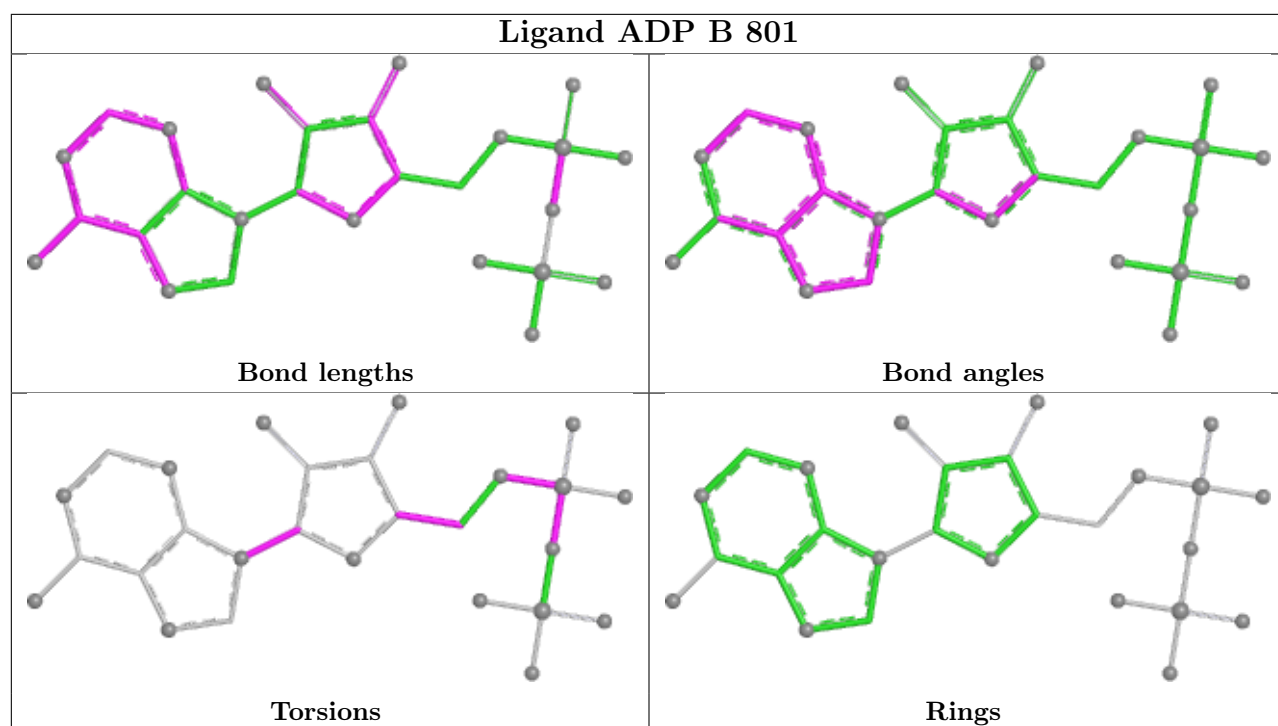


Ligand Y6Y E 802

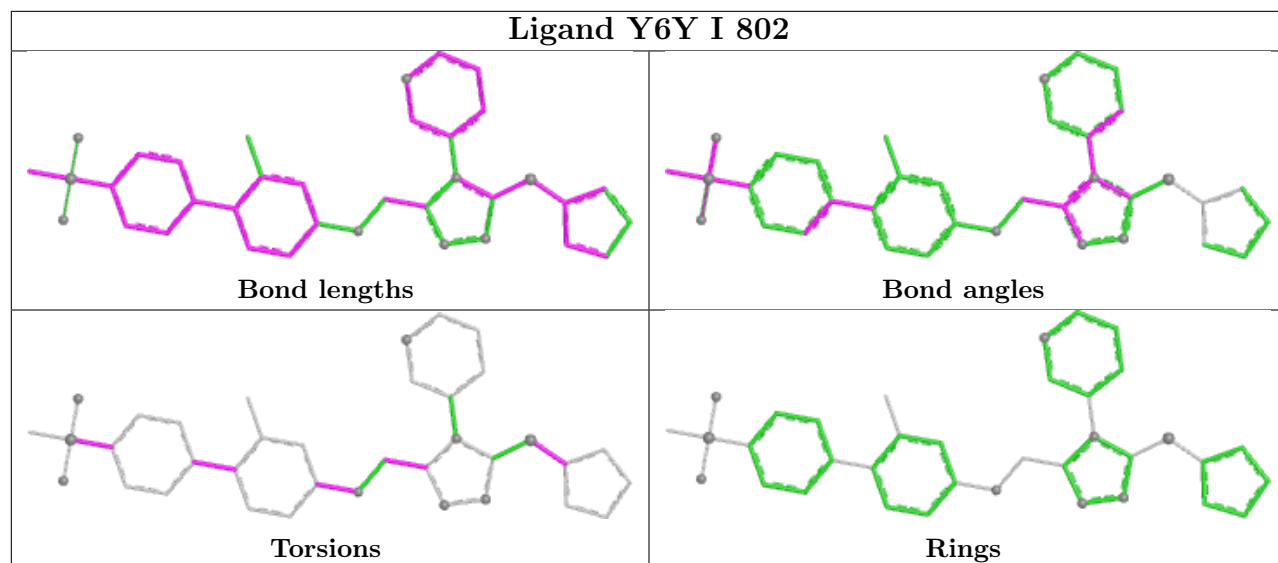


Ligand Y6Y G 802

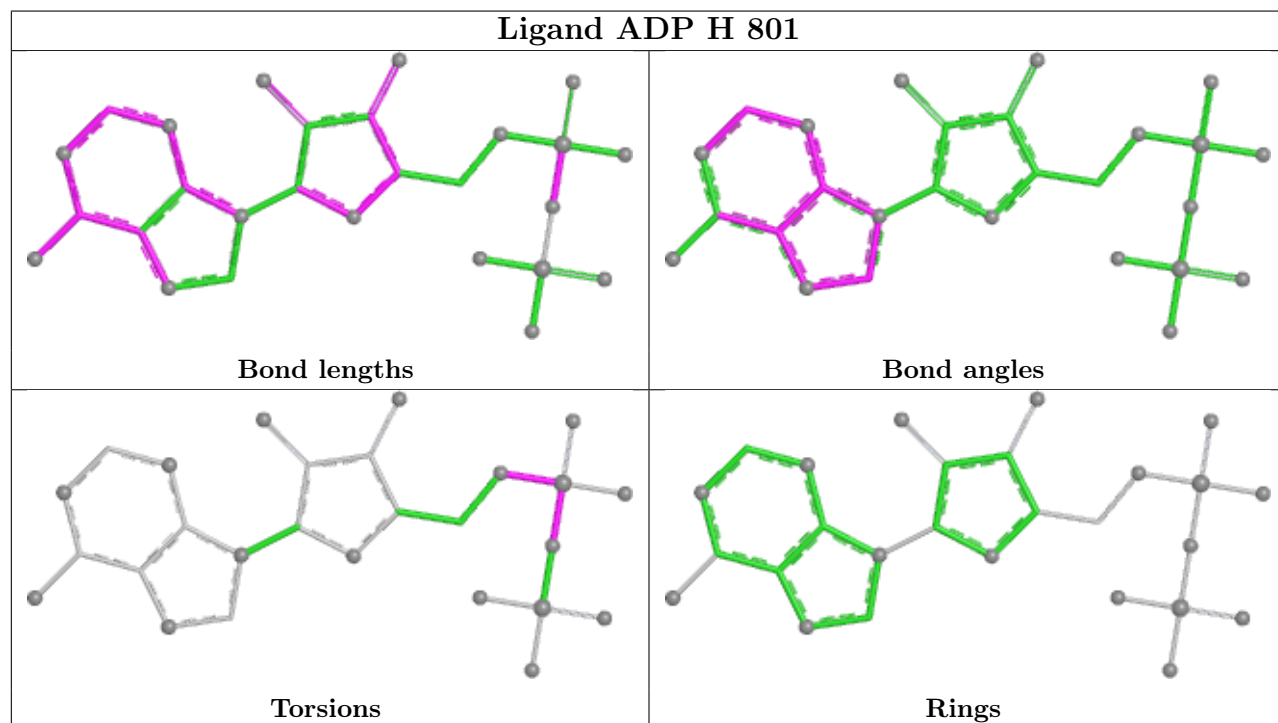




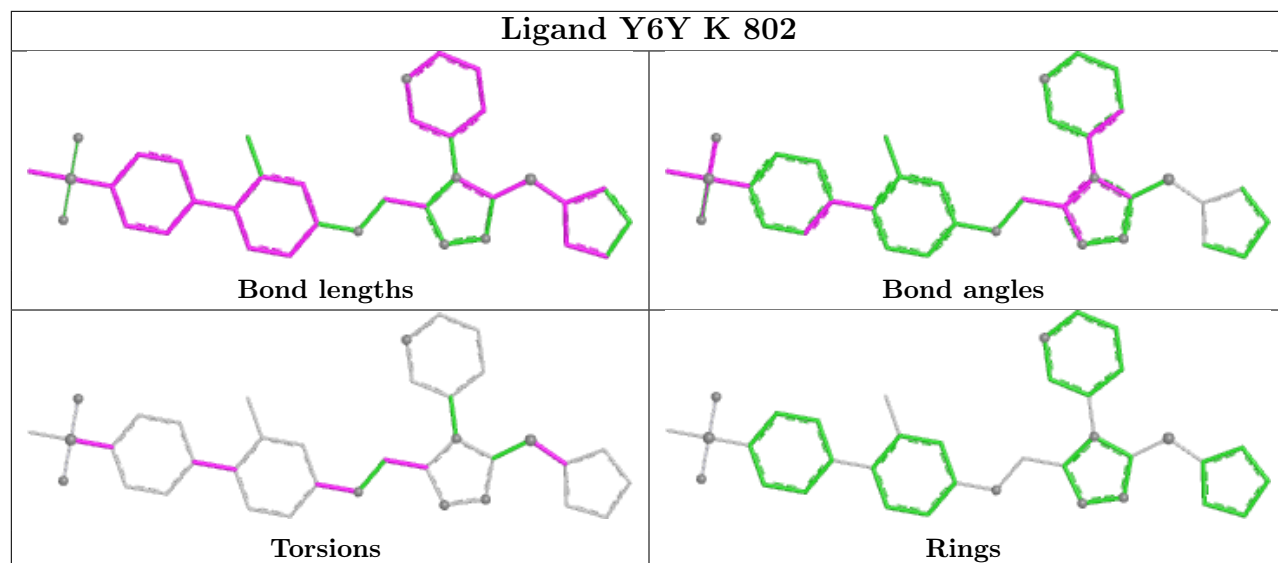
Ligand Y6Y I 802



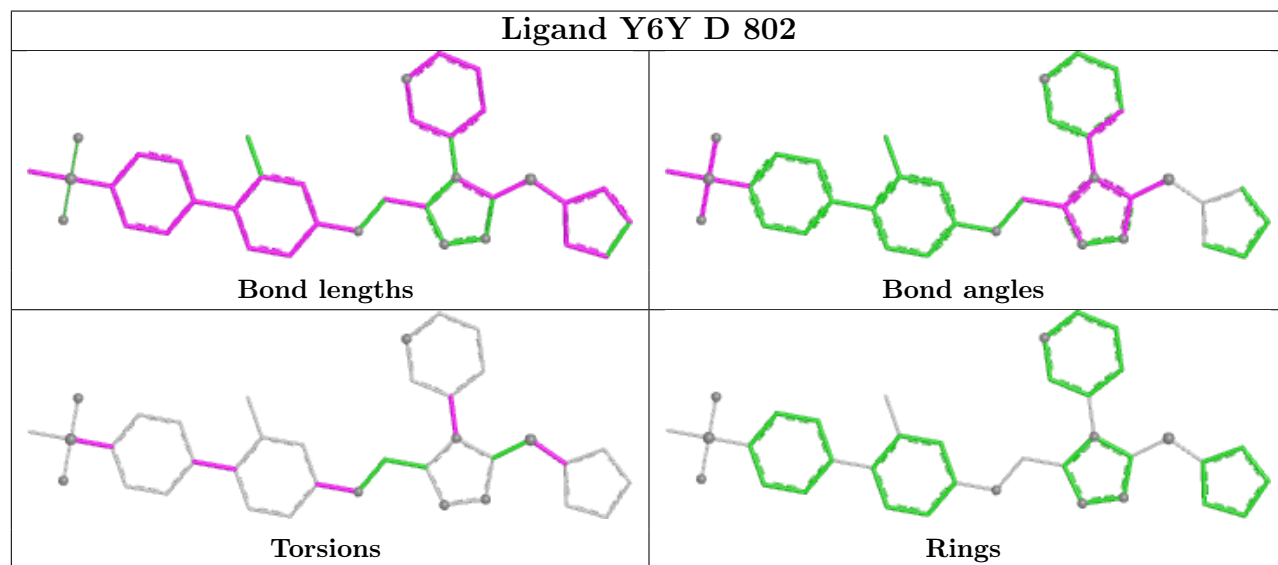
Ligand ADP H 801

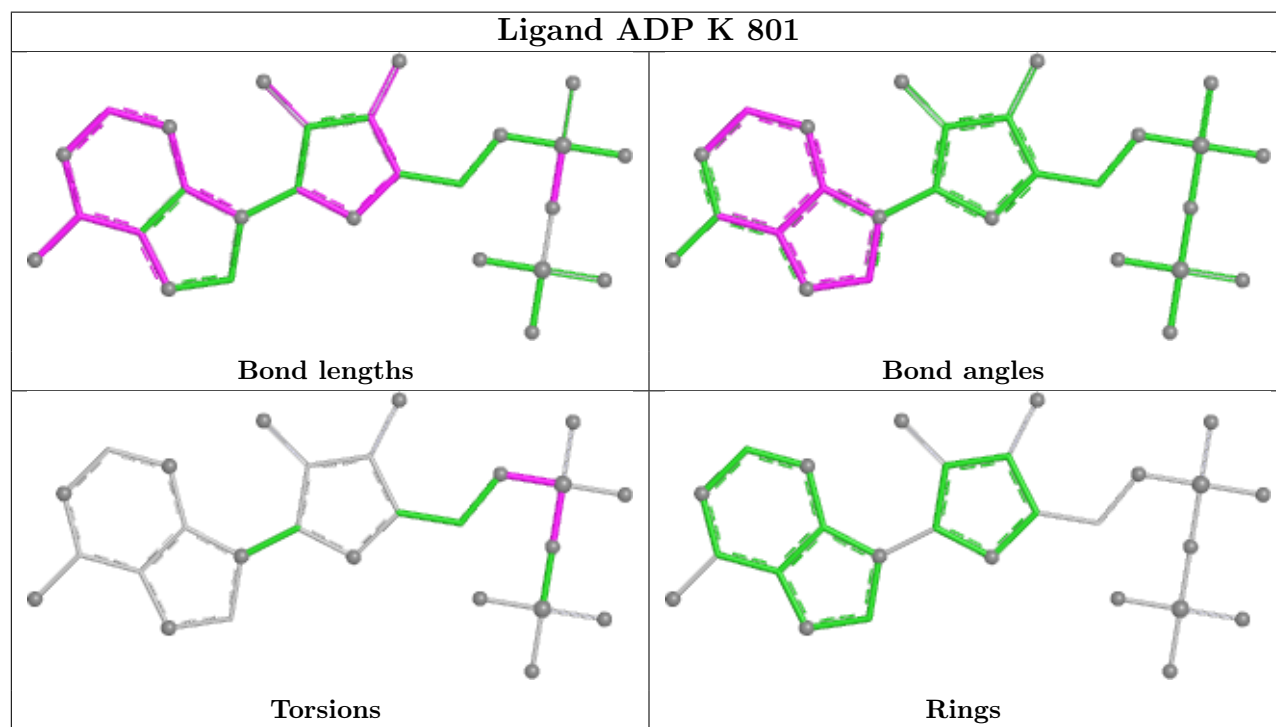
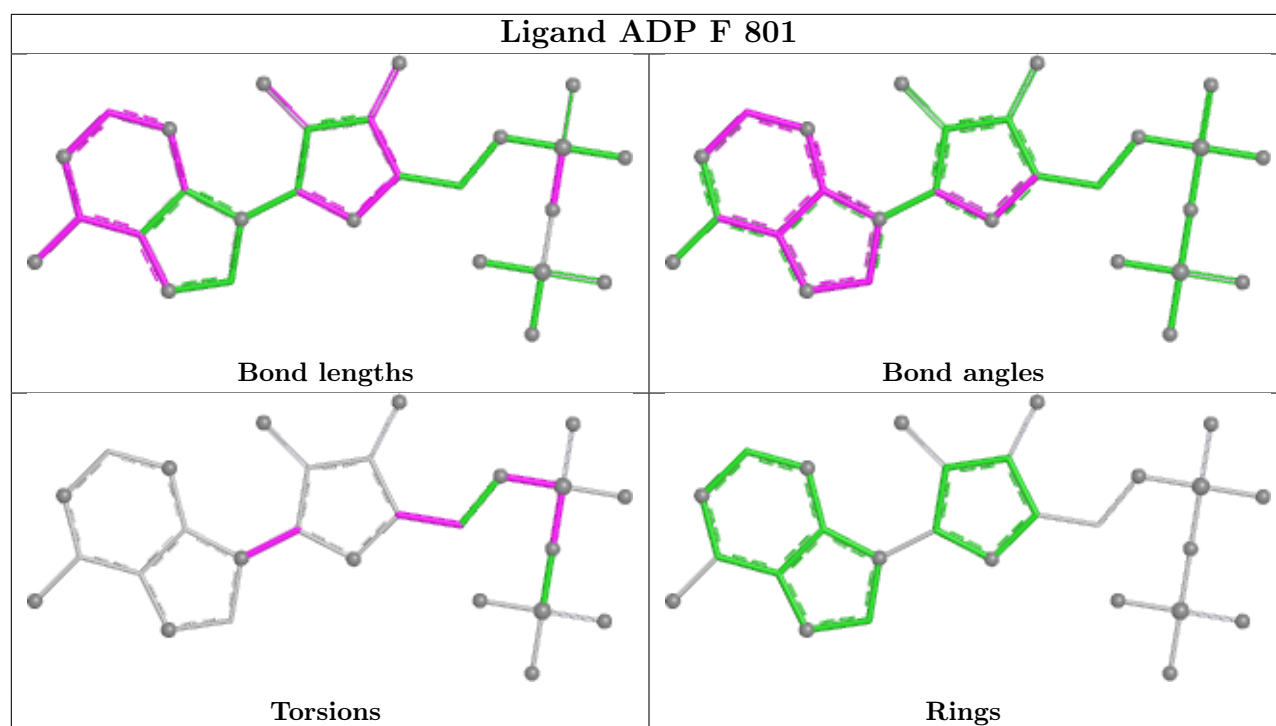


Ligand Y6Y K 802

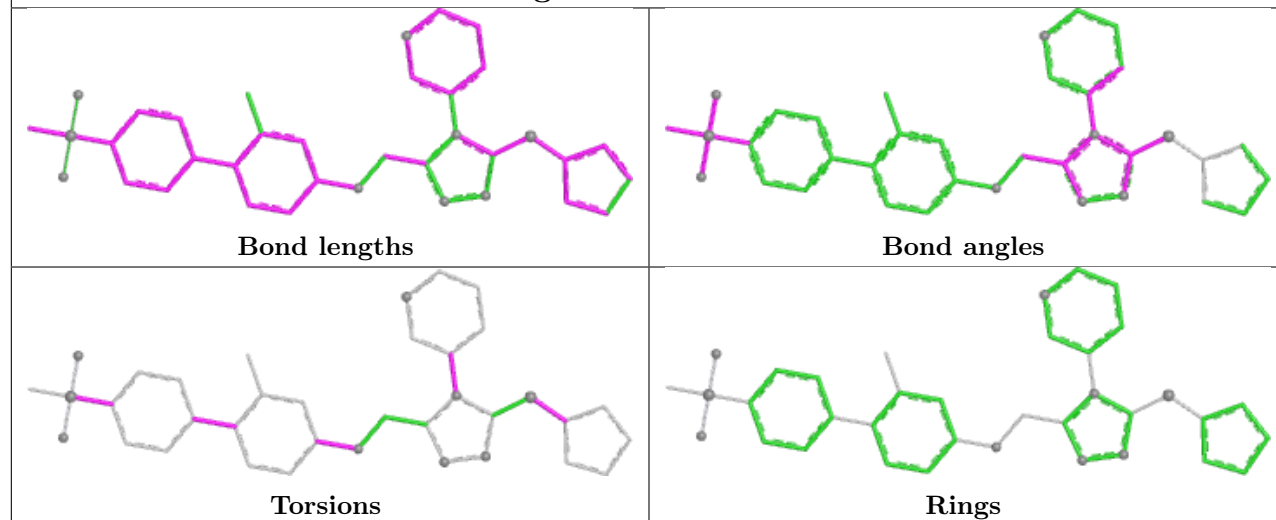


Ligand Y6Y D 802

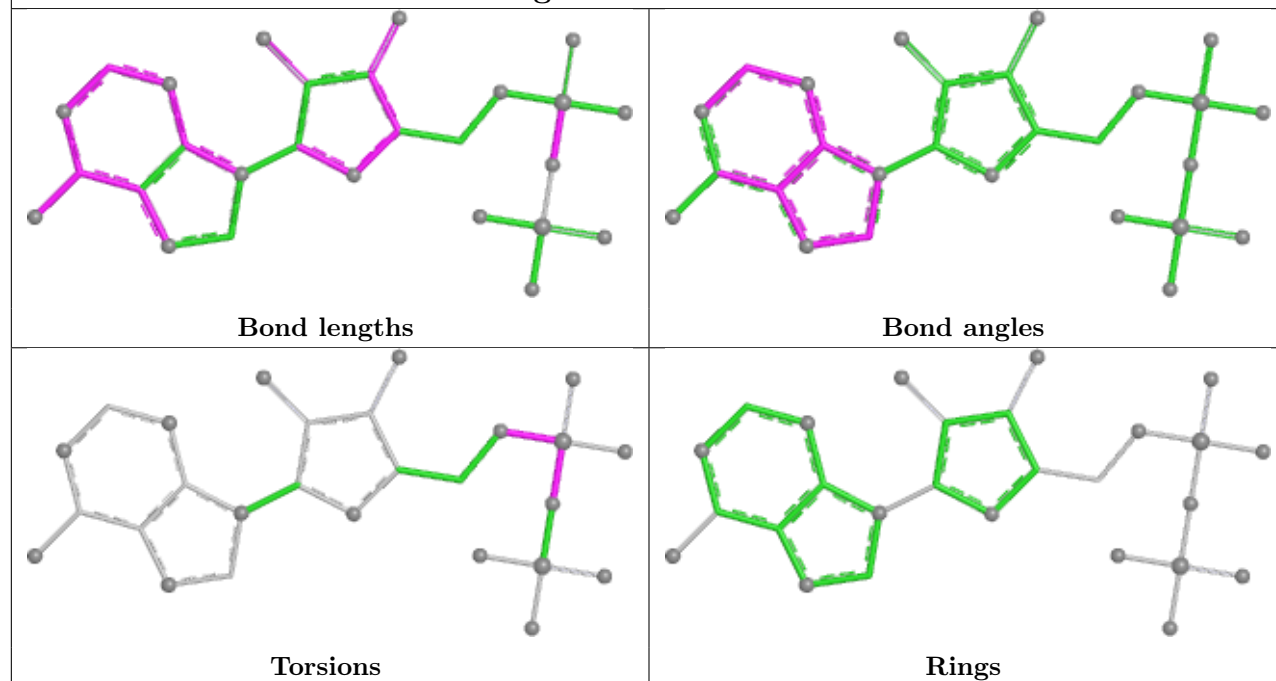


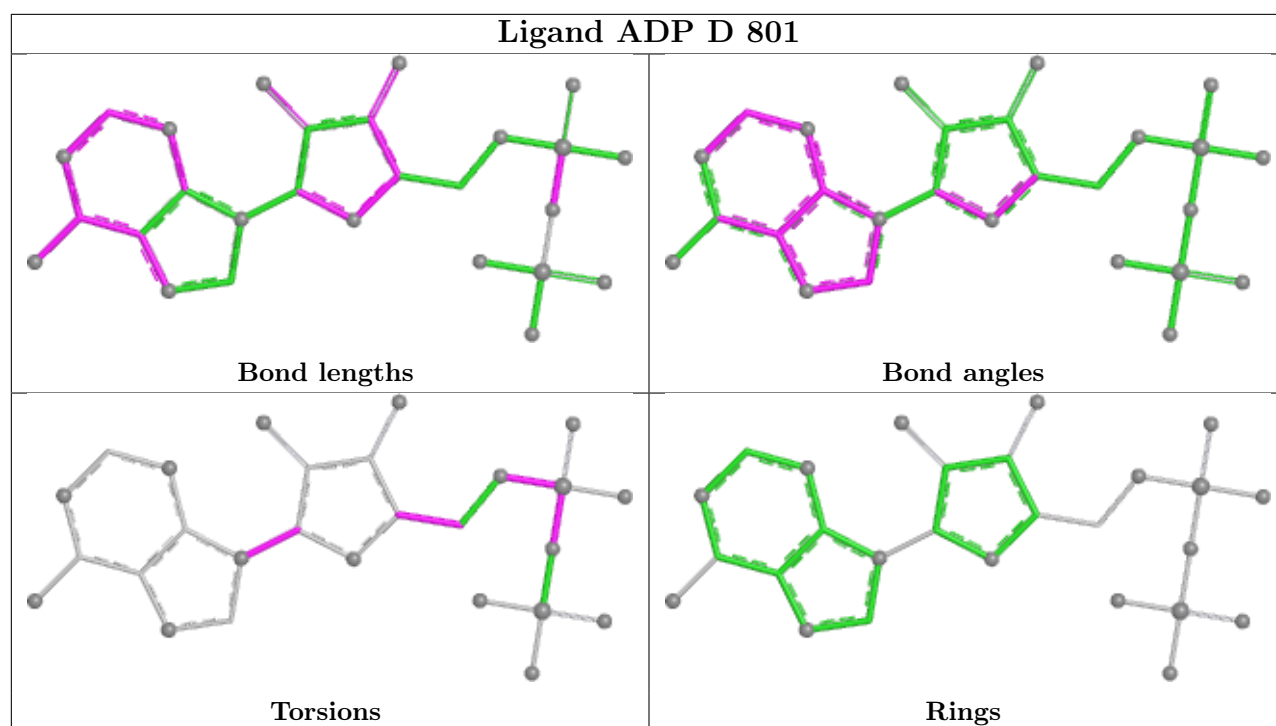


Ligand Y6Y B 802



Ligand ADP J 801





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.

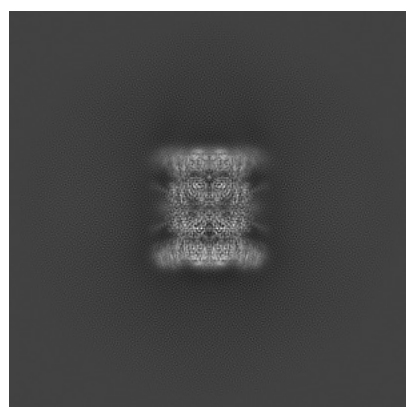
6 Map visualisation [i](#)

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.

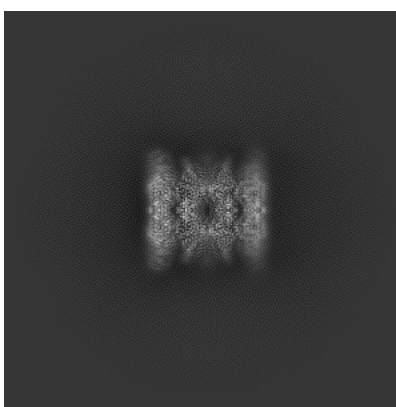
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

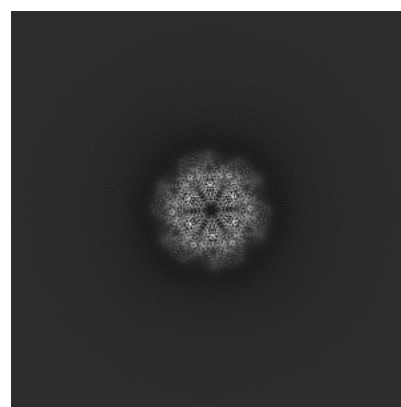
6.1.1 Primary map



X



Y

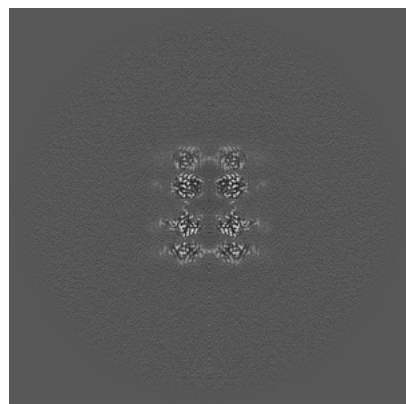


Z

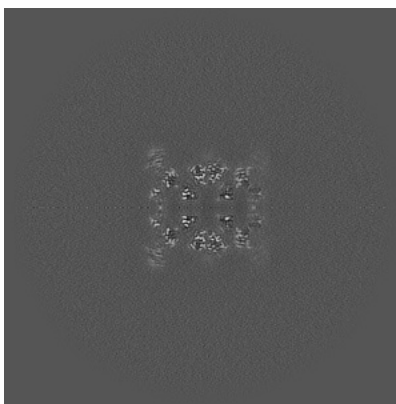
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

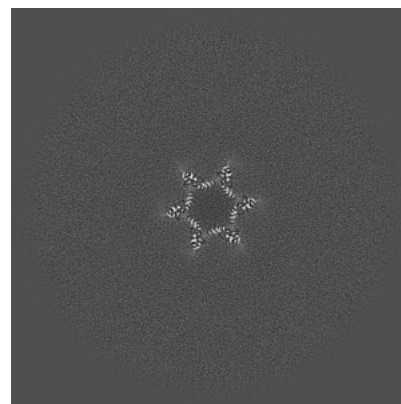
6.2.1 Primary map



X Index: 320



Y Index: 320

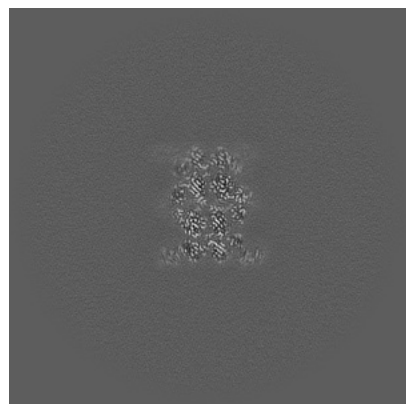


Z Index: 320

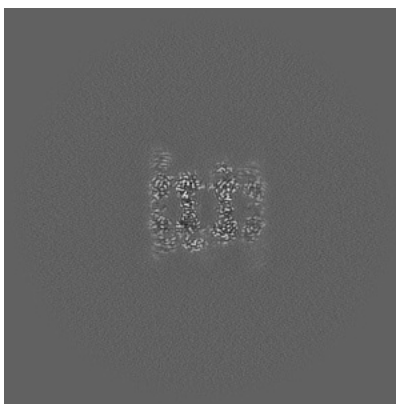
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

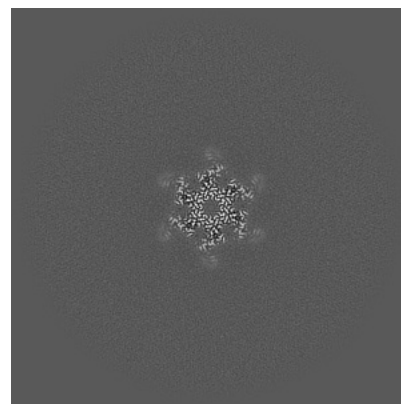
6.3.1 Primary map



X Index: 285



Y Index: 303

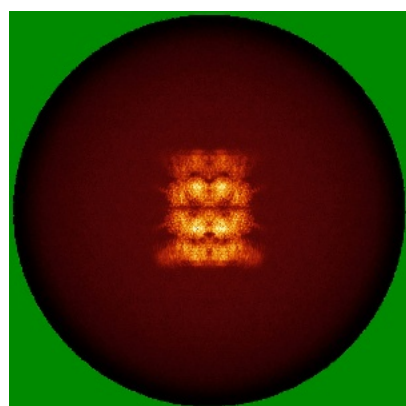


Z Index: 291

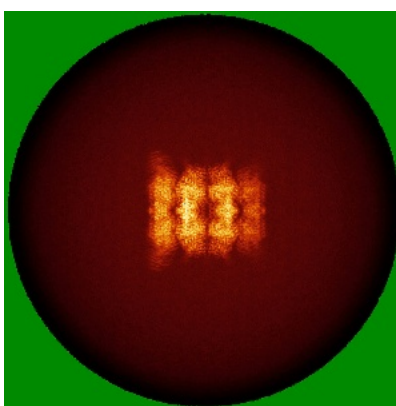
The images above show the largest variance slices of the map in three orthogonal directions.

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

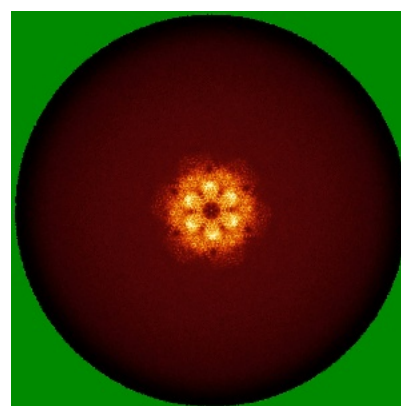
6.4.1 Primary map



X



Y

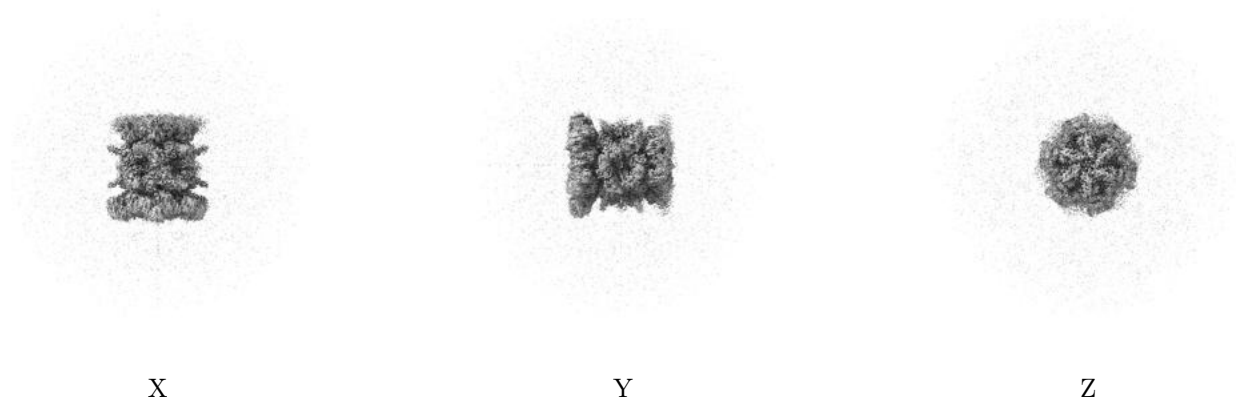


Z

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.

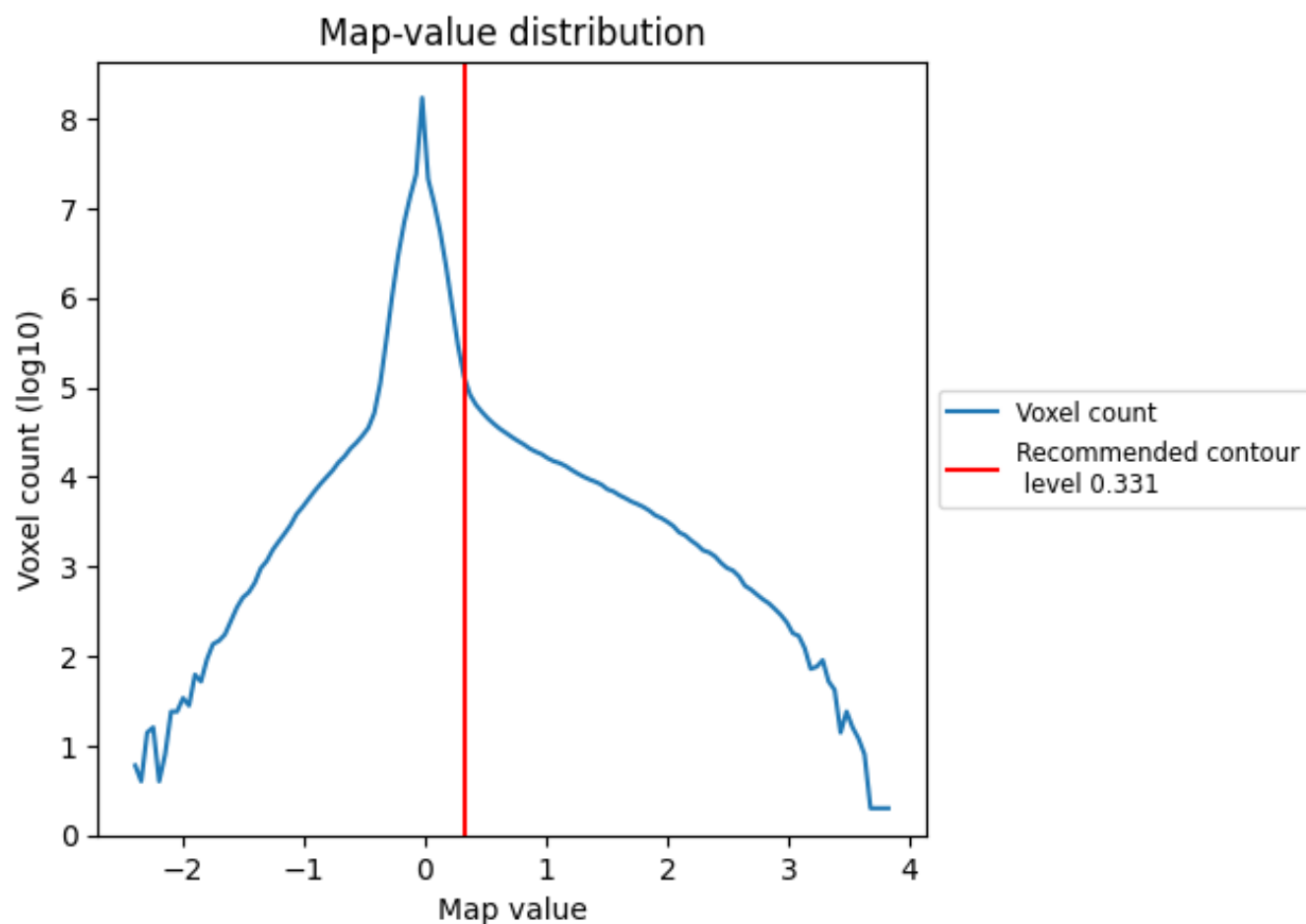
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

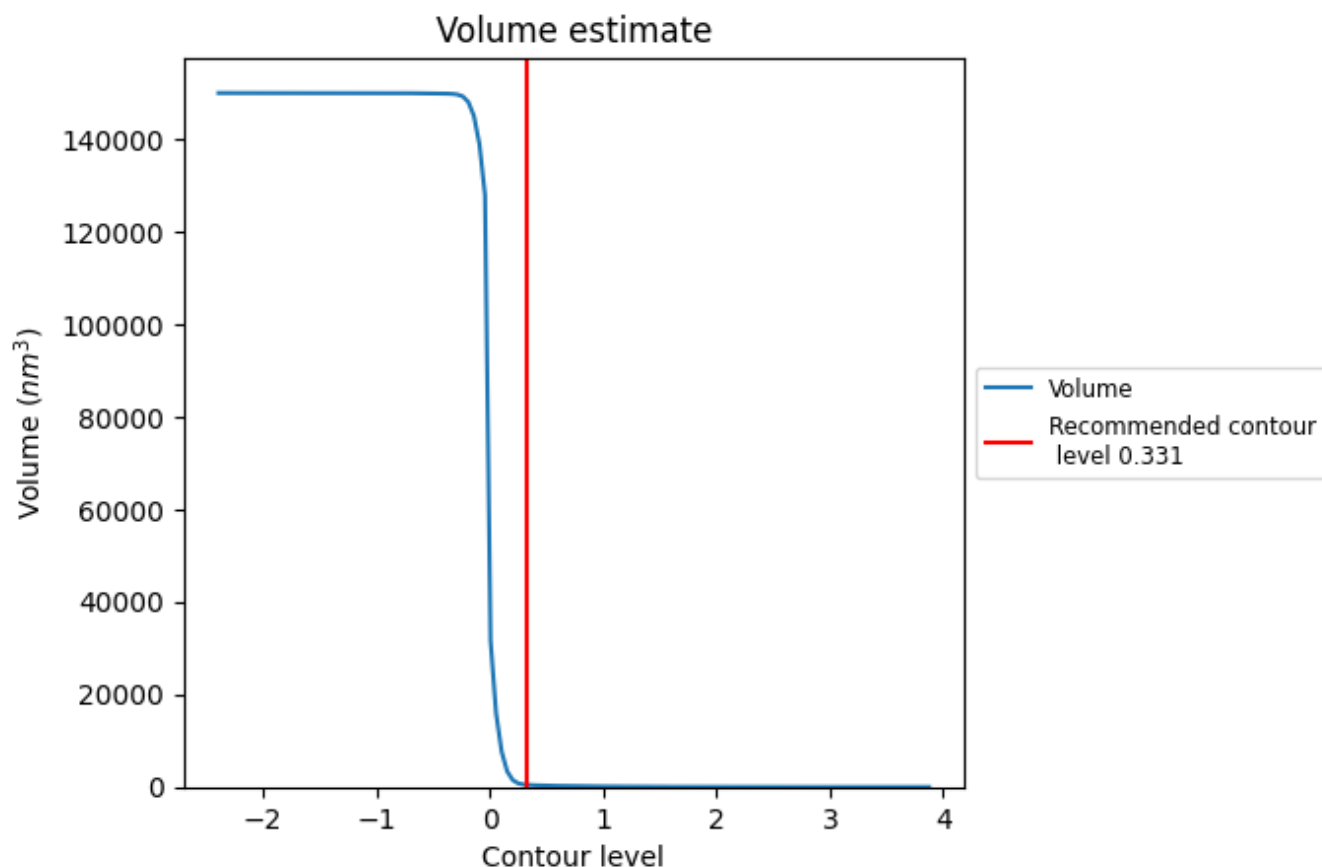
This section contains the results of statistical analysis of the map.

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.

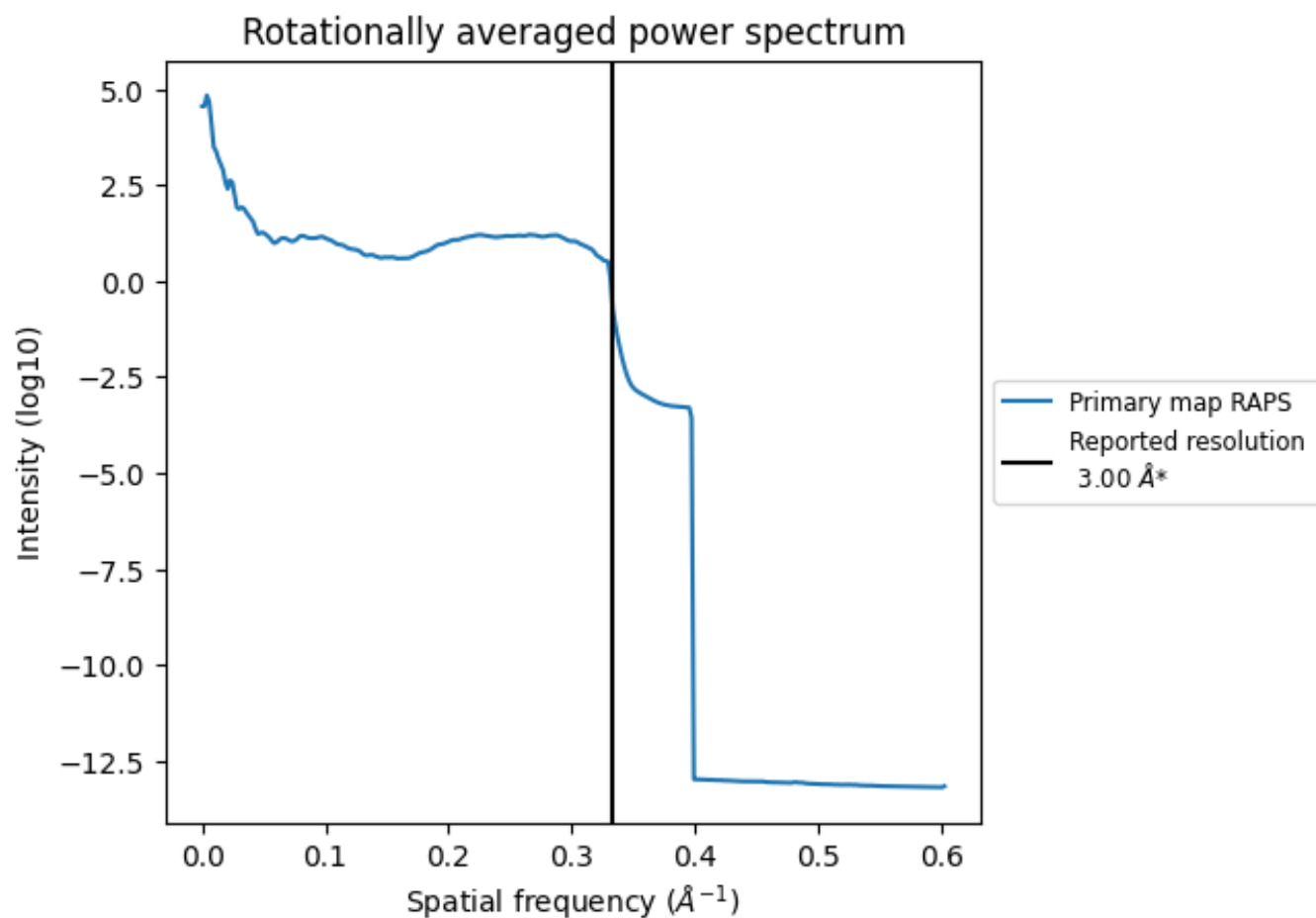
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 459 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⁻¹

8 Fourier-Shell correlation

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

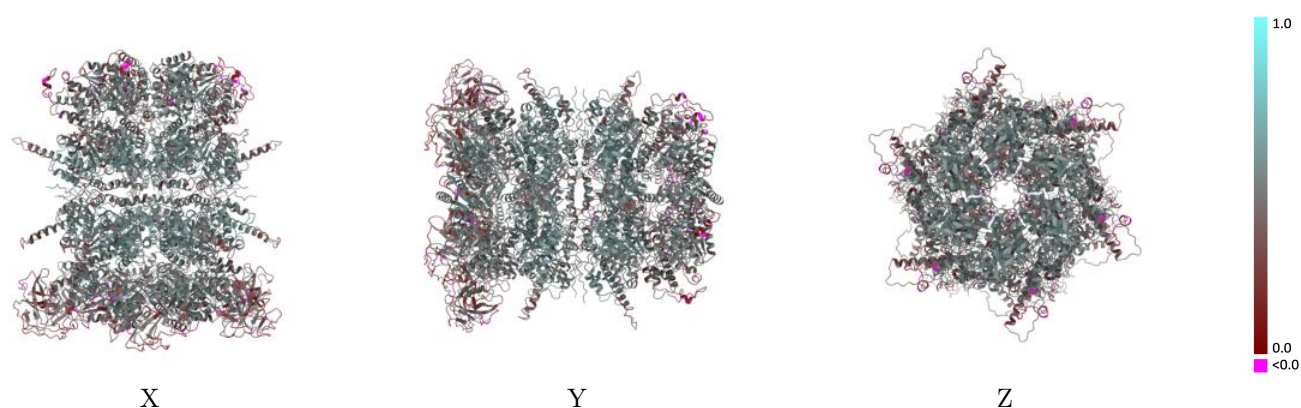
9 Map-model fit [i](#)

This section contains information regarding the fit between EMD 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](#)

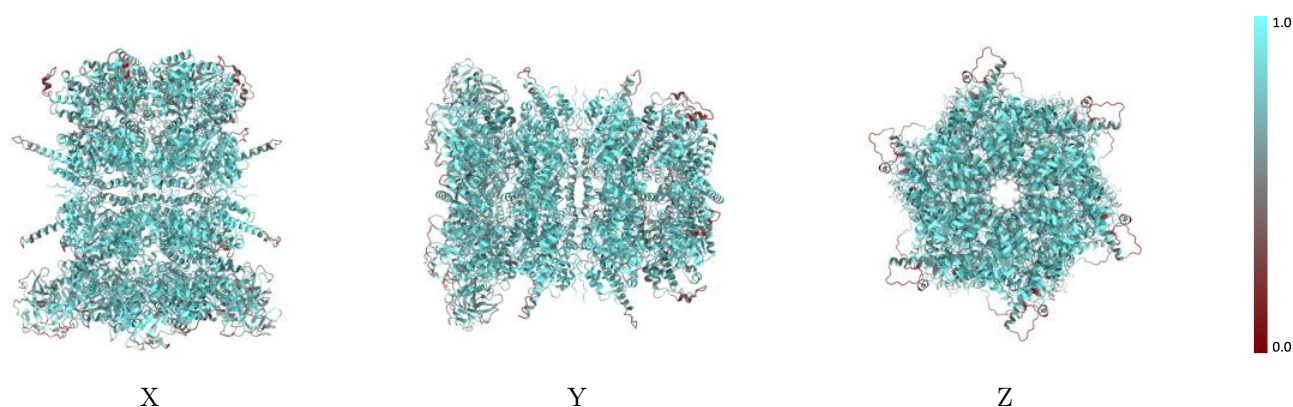
This section was not generated.

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



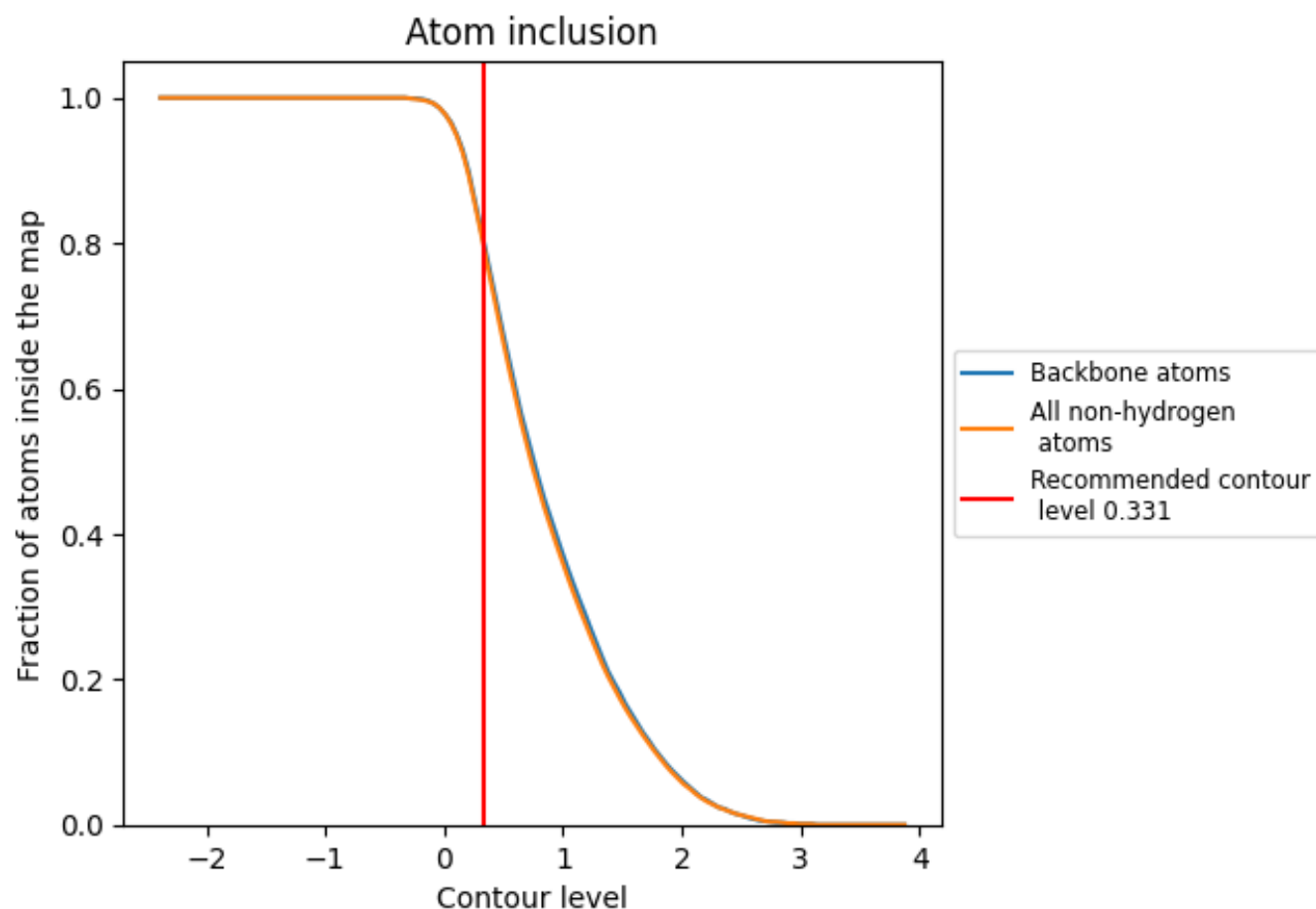
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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	0.7970	0.4650
A	0.8080	0.4750
B	0.8100	0.4740
C	0.8100	0.4740
D	0.8060	0.4710
E	0.8060	0.4710
F	0.8060	0.4720
G	0.8000	0.4610
H	0.7970	0.4600
I	0.7970	0.4570
J	0.7980	0.4590
K	0.7980	0.4600
L	0.7950	0.4600

1.0

0.0

<0.0