



## Full wwPDB EM Validation Report ⓘ

Apr 29, 2024 – 02:23 am BST

PDB ID : 4APW  
EMDB ID : EMD-2068  
Title : Alp12 filament structure  
Authors : Popp, D.; Narita, A.; Lee, L.J.; Ghoshdastider, U.; Xue, B.; Srinivasan, R.;  
Balasubramanian, M.K.; Tanaka, T.; Robinson, R.C.  
Deposited on : 2012-04-06  
Resolution : 19.70 Å(reported)  
Based on initial model : 3JS6

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev92  
MolProbity : 4.02b-467  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
MapQ : 1.9.13  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.36.2

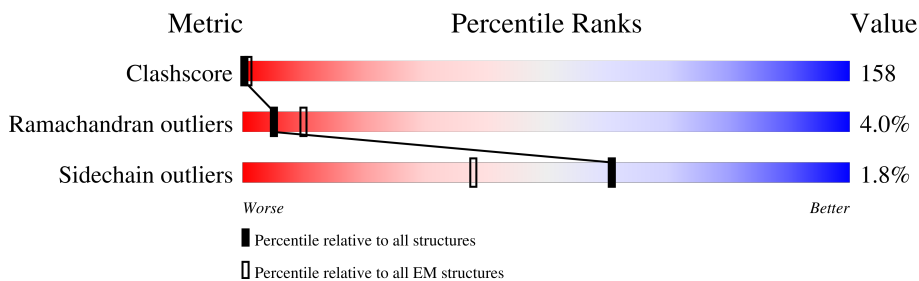
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*ELECTRON MICROSCOPY*

The reported resolution of this entry is 19.70 Å.

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



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

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

Mol	Chain	Length	Quality of chain
1	A	329	
1	B	329	
1	C	329	
1	D	329	
1	E	329	
1	F	329	
1	G	329	
1	H	329	

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Mol	Chain	Length	Quality of chain
1	I	329	<p>17% 23% 60% 10% 5%</p>
1	J	329	<p>17% 21% 63% 10% 5%</p>
1	K	329	<p>18% 22% 62% 10% 5%</p>
1	L	329	<p>18% 24% 60% 10% 5%</p>
1	M	329	<p>10% 24% 59% 11% 5%</p>
1	N	329	<p>10% 19% 64% 10% 5%</p>
1	O	329	<p>10% 19% 64% 10% 5%</p>
1	P	329	<p>9% 21% 63% 10% 5%</p>

## 2 Entry composition [i](#)

There is only 1 type of molecule in this entry. The entry contains 40752 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

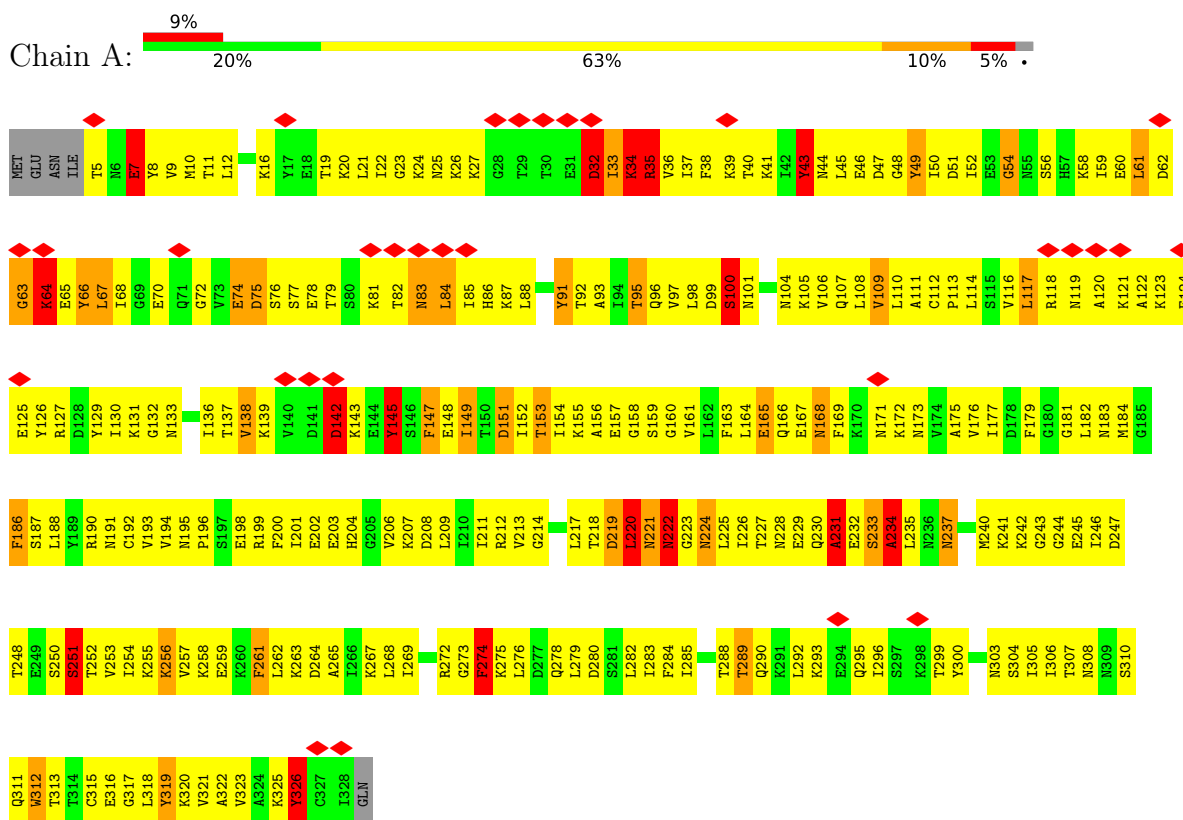
- Molecule 1 is a protein called ALP12.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	324	2547	1607	425	508	7	0	1
1	B	324	2547	1607	425	508	7	0	1
1	C	324	2547	1607	425	508	7	0	1
1	D	324	2547	1607	425	508	7	0	1
1	E	324	2547	1607	425	508	7	0	1
1	F	324	2547	1607	425	508	7	0	1
1	G	324	2547	1607	425	508	7	0	1
1	H	324	2547	1607	425	508	7	0	1
1	I	324	2547	1607	425	508	7	0	1
1	J	324	2547	1607	425	508	7	0	1
1	K	324	2547	1607	425	508	7	0	1
1	L	324	2547	1607	425	508	7	0	1
1	M	324	2547	1607	425	508	7	0	1
1	N	324	2547	1607	425	508	7	0	1
1	O	324	2547	1607	425	508	7	0	1
1	P	324	2547	1607	425	508	7	0	1

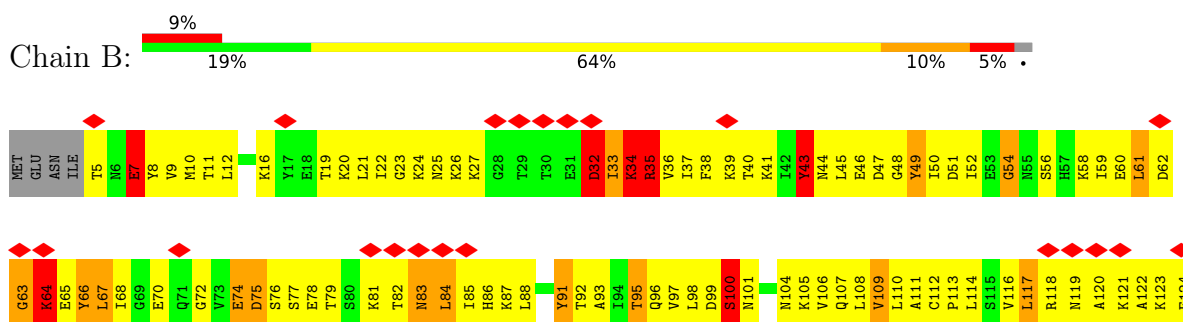
### 3 Residue-property plots [i](#)

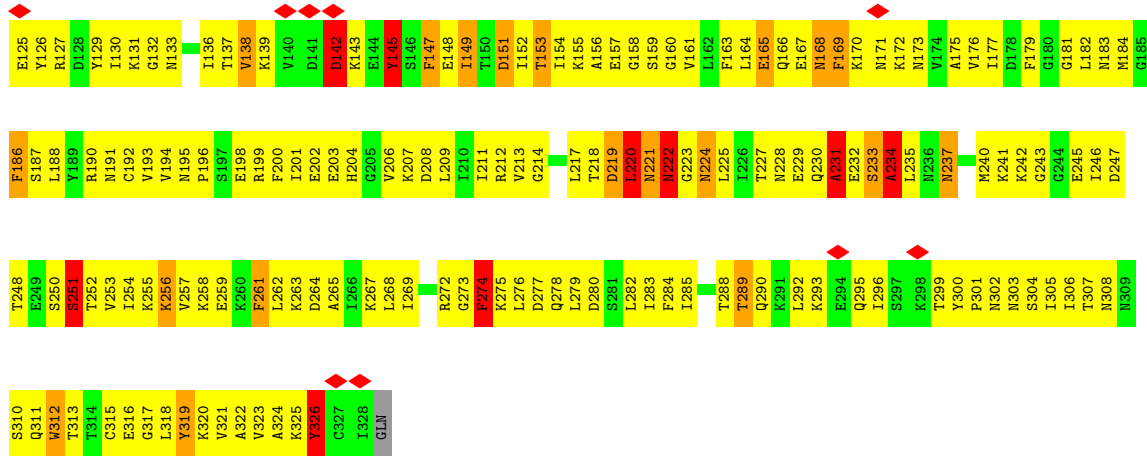
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion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

#### • Molecule 1: ALP12

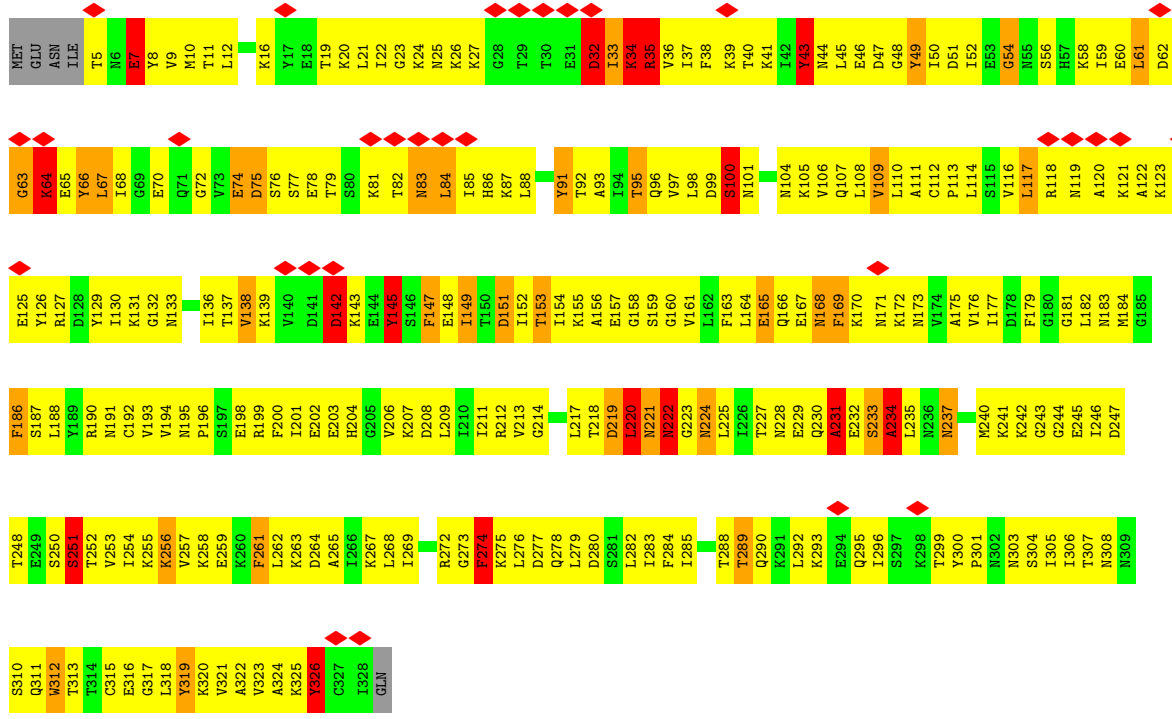


#### • Molecule 1: ALP12

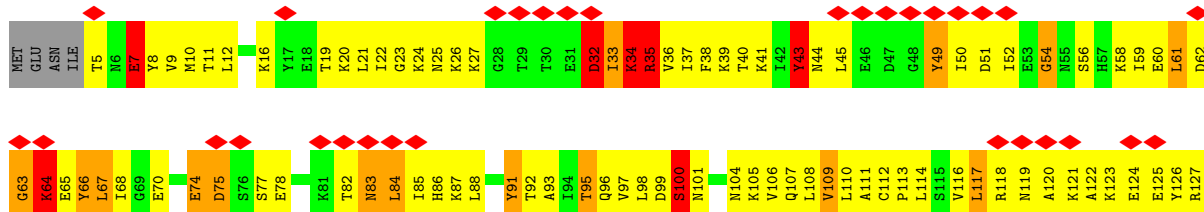


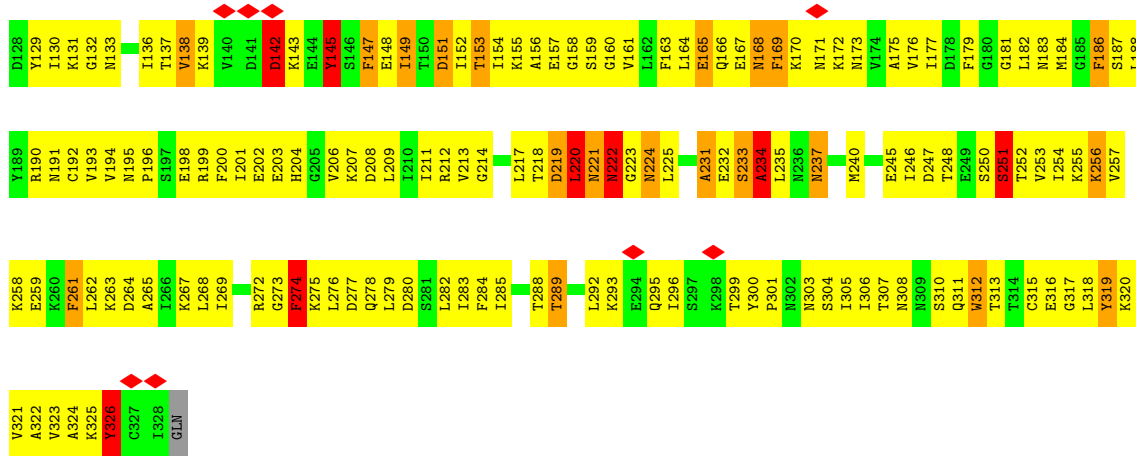


• Molecule 1: ALP12

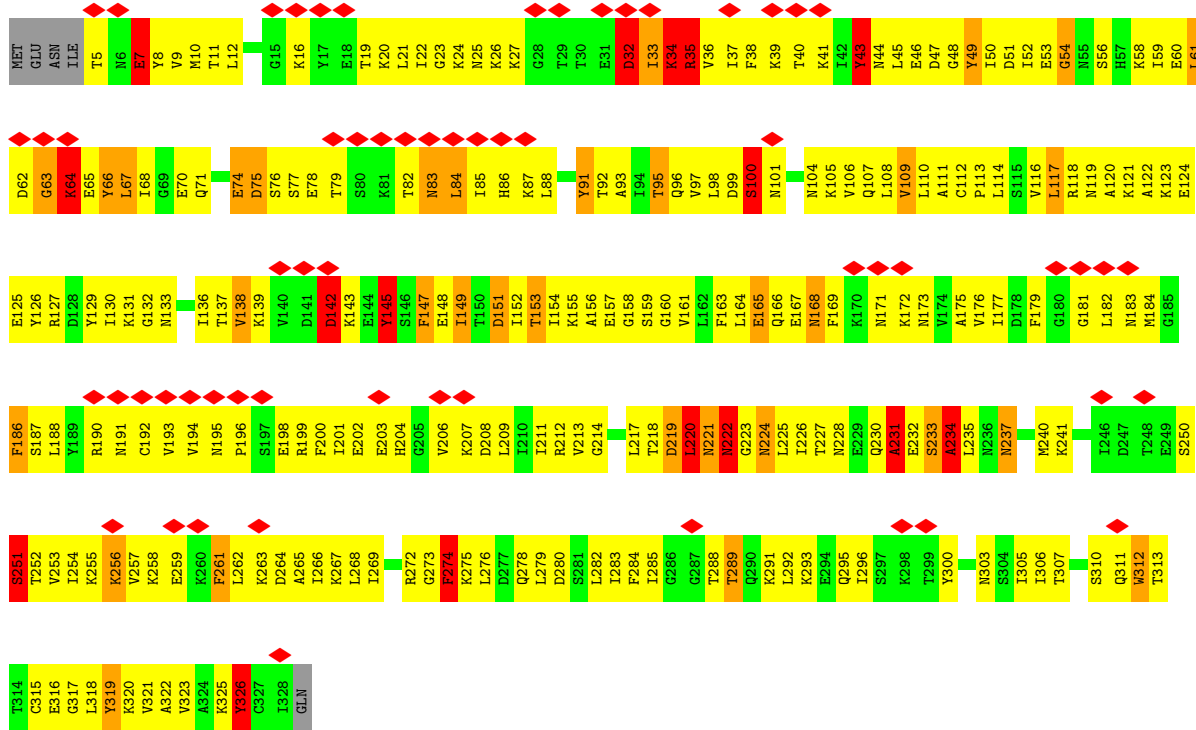


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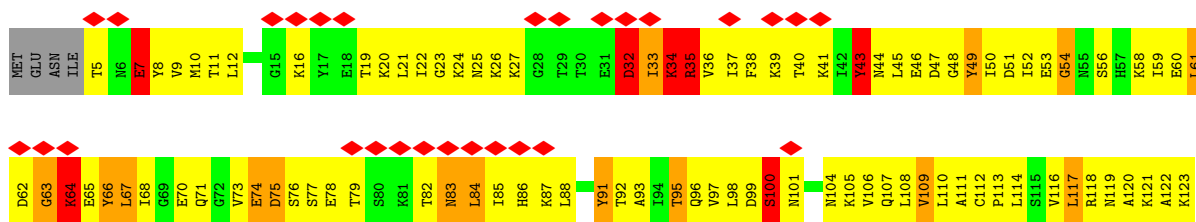


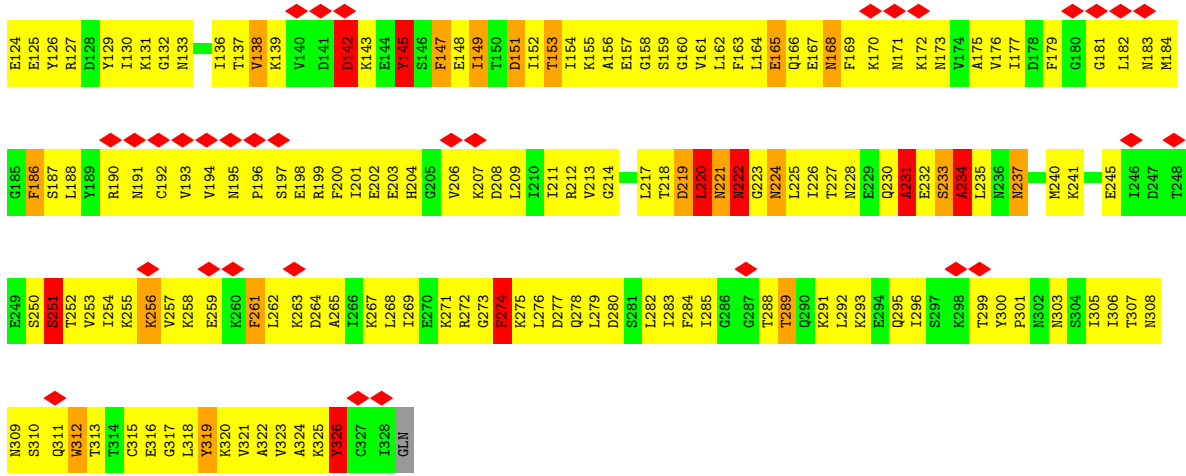


• Molecule 1: ALP12

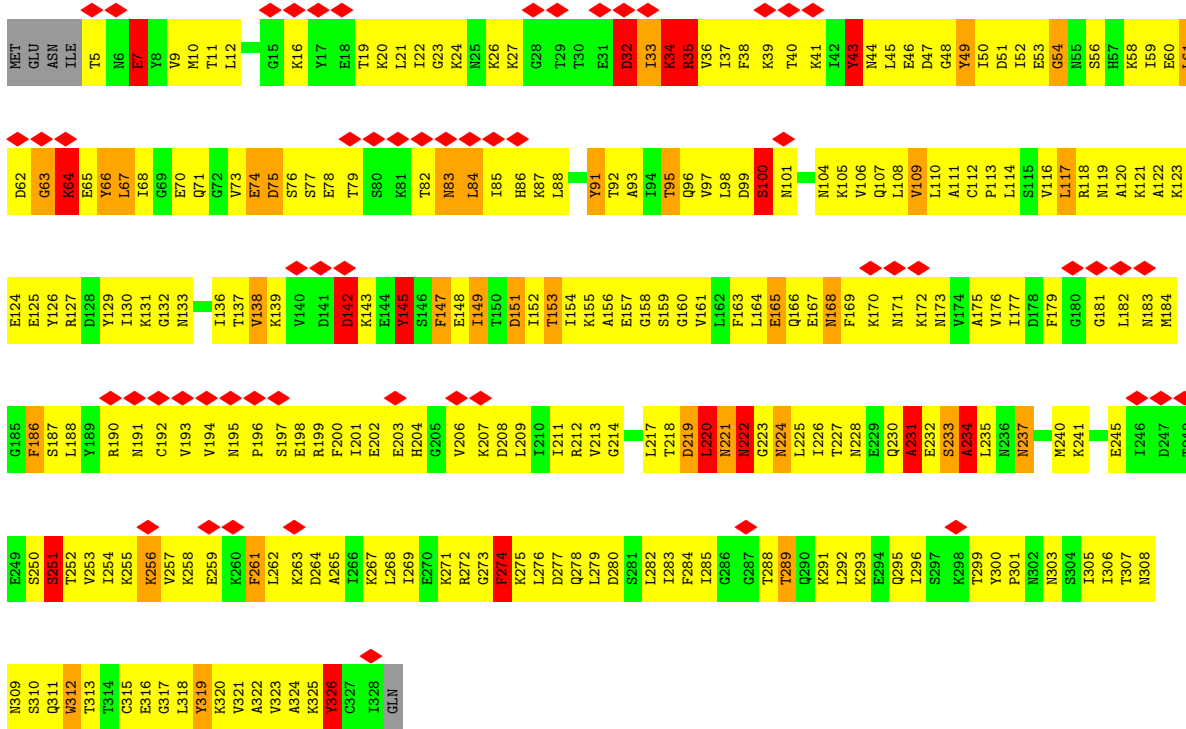


• Molecule 1: ALP12

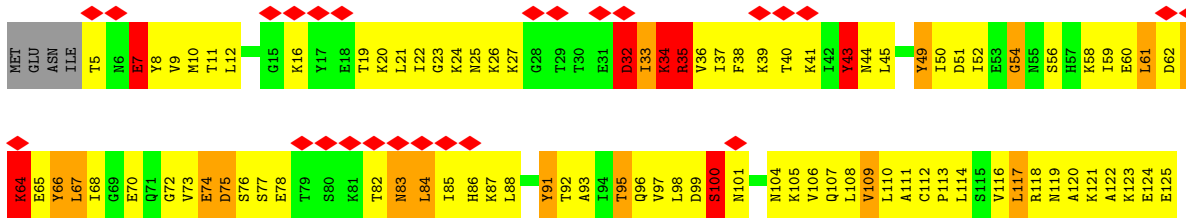




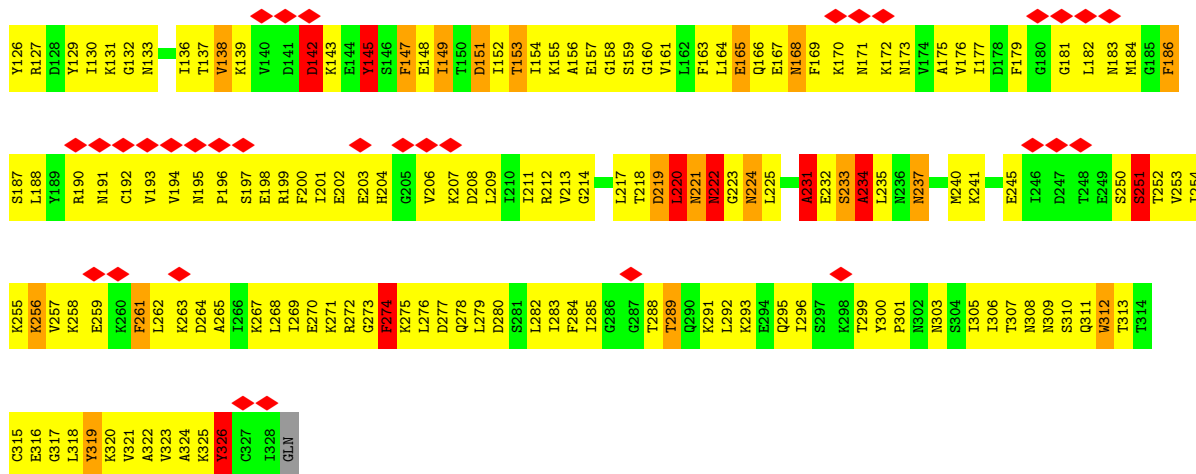
• Molecule 1: ALP12



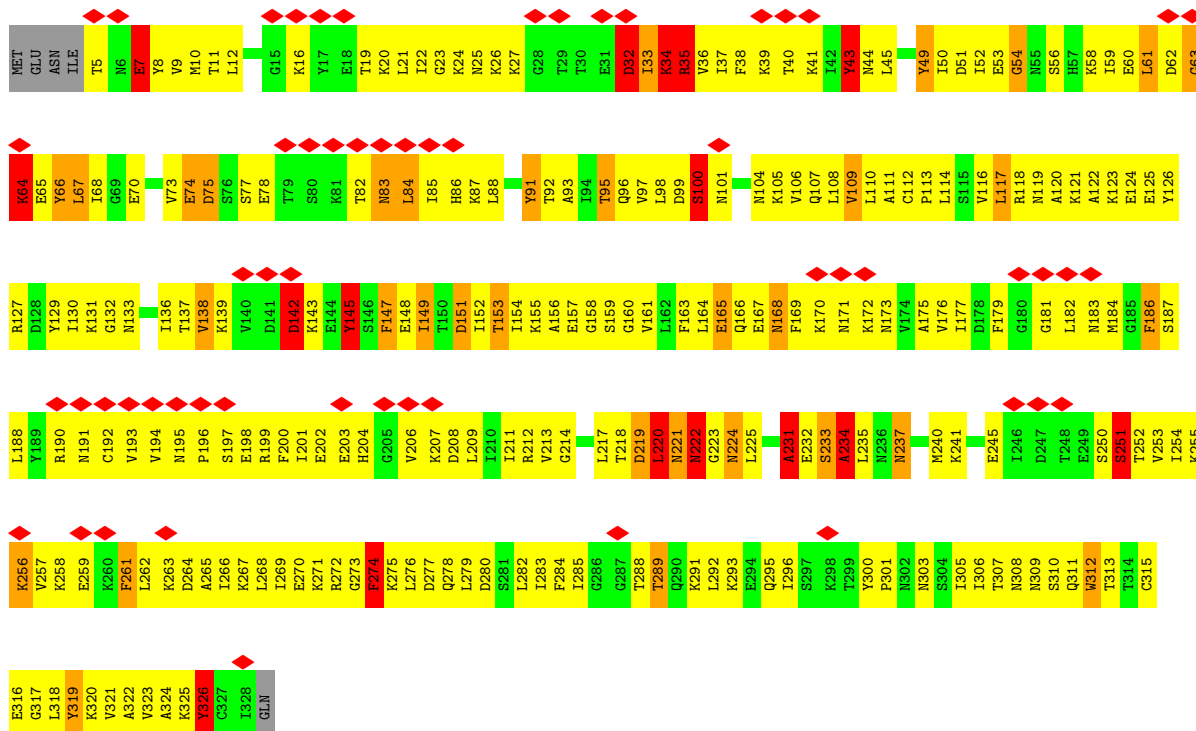
• Molecule 1: ALP12



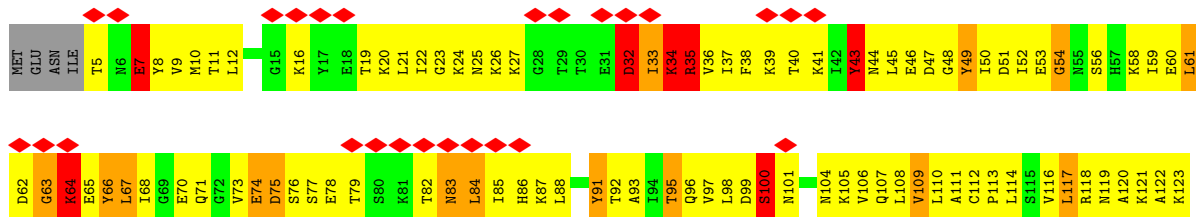


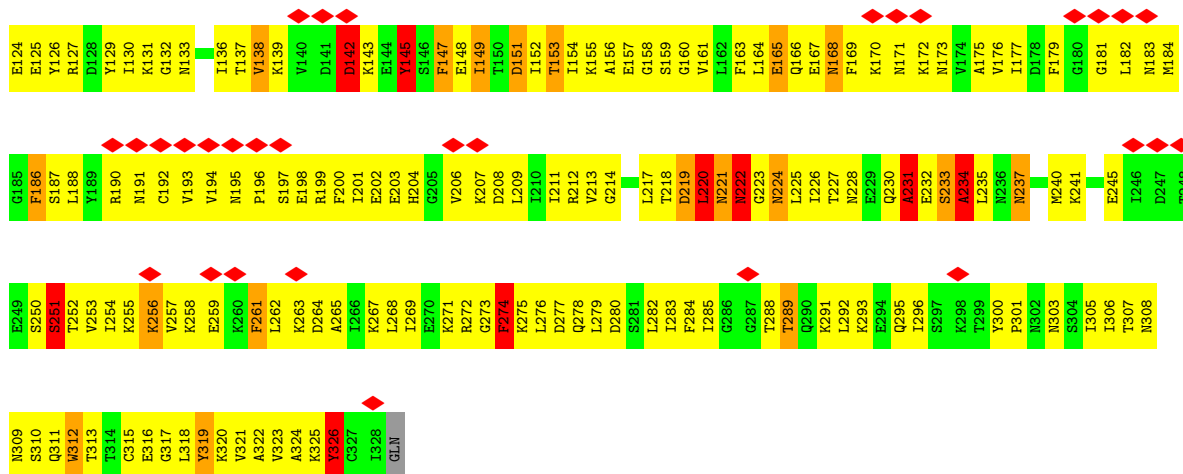


• Molecule 1: ALP12

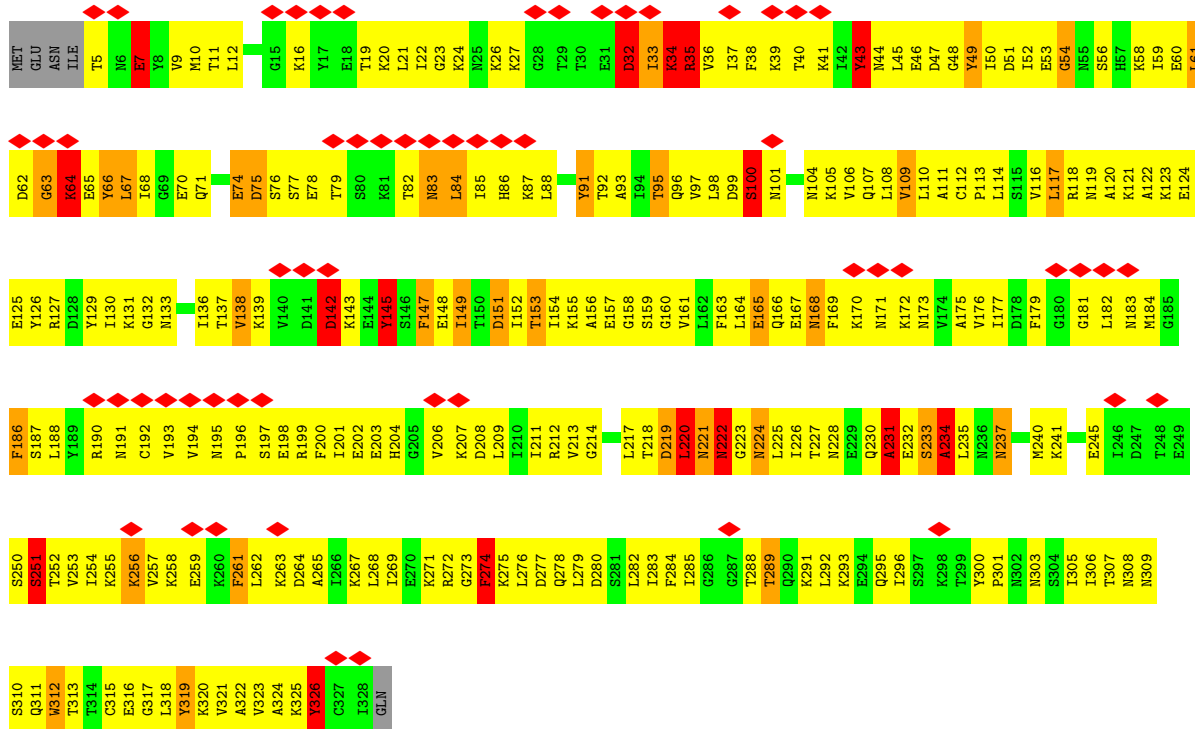


• Molecule 1: ALP12

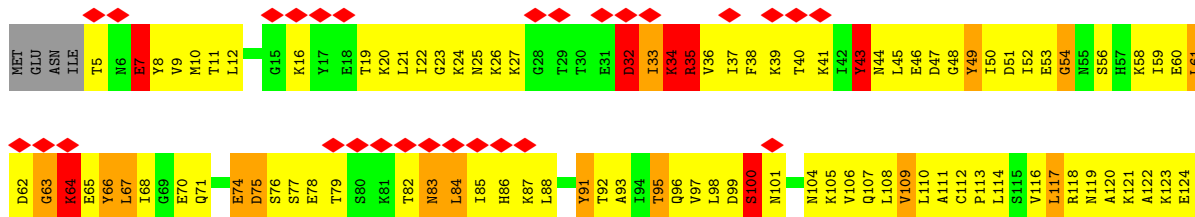
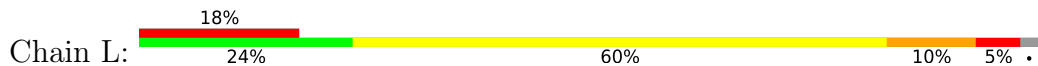


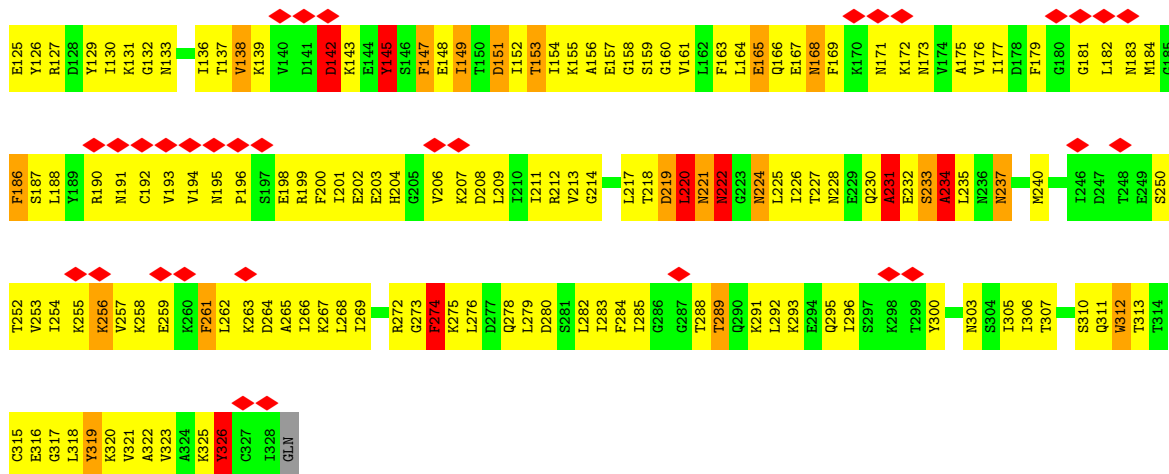


• Molecule 1: ALP12

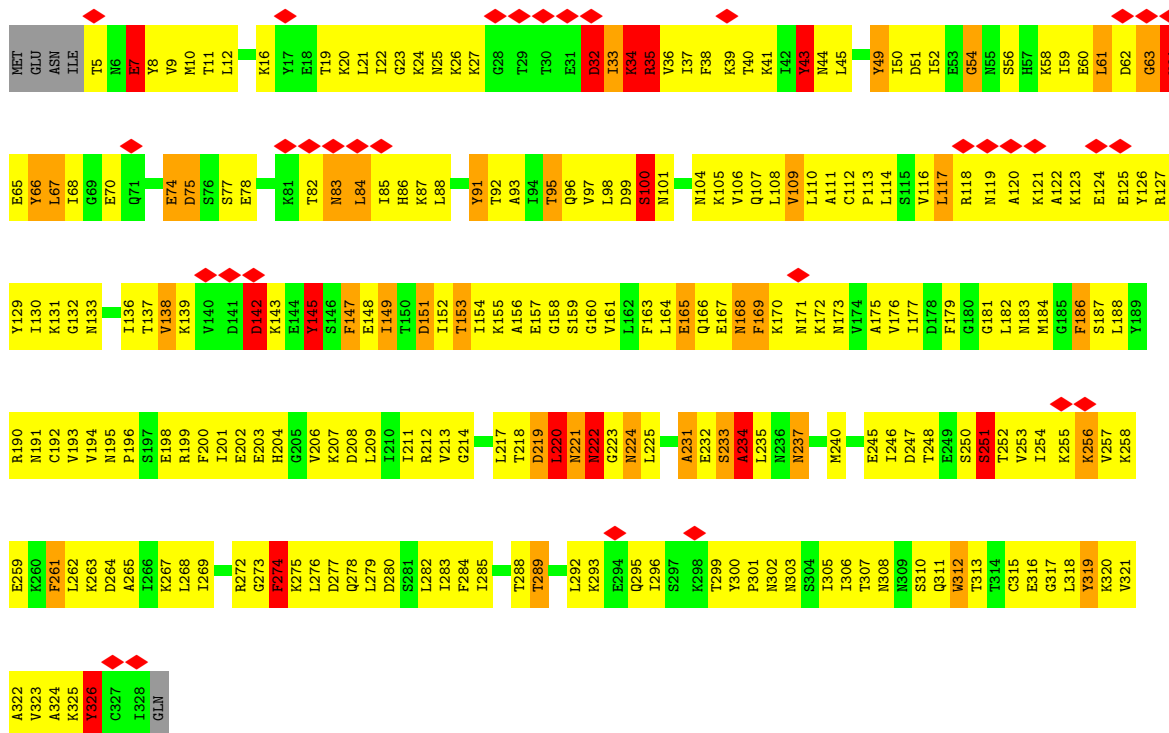


• Molecule 1: ALP12

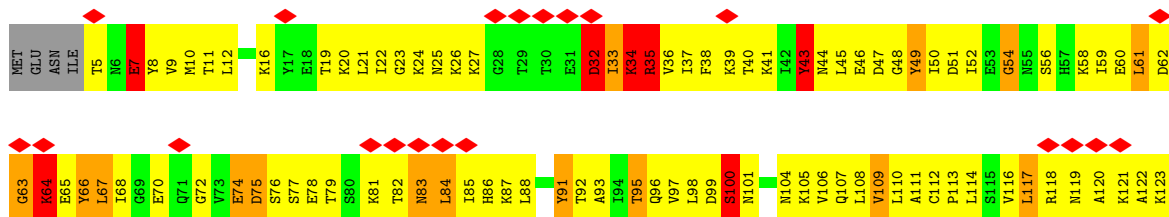


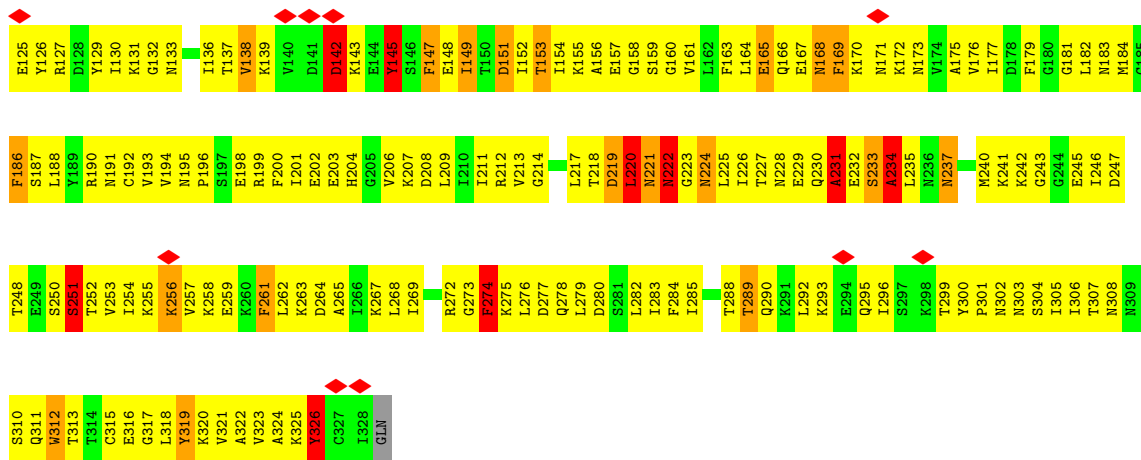


• Molecule 1: ALP12

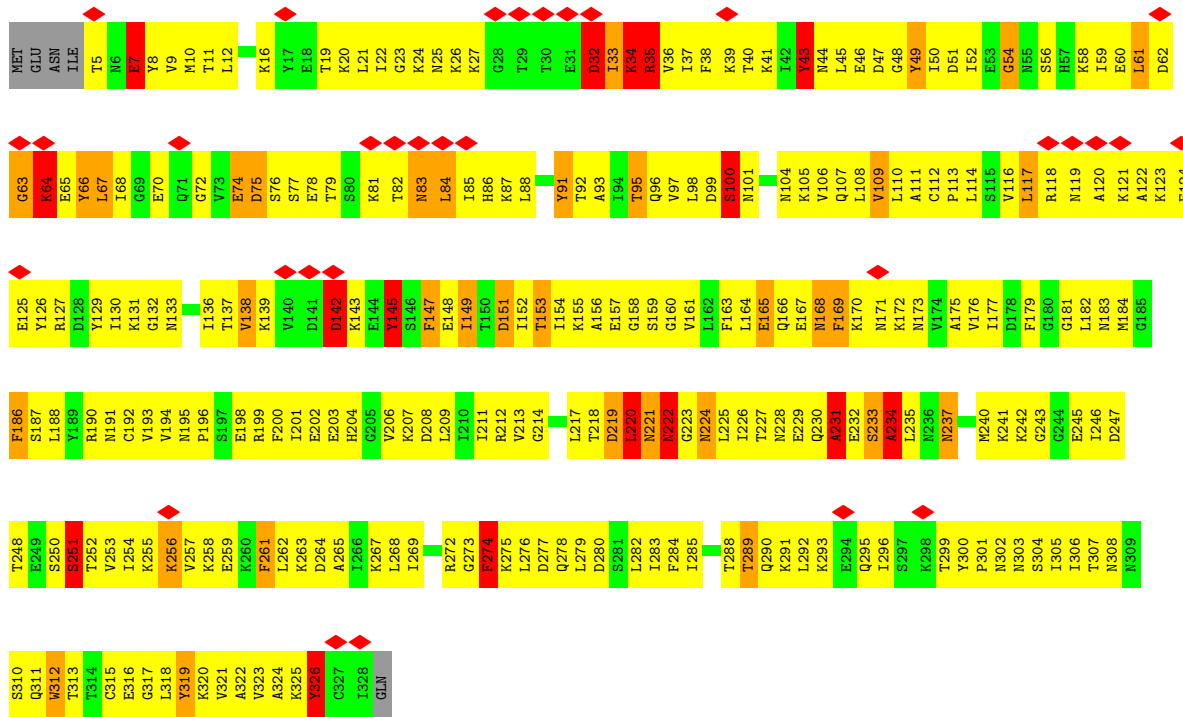


• Molecule 1: ALP12

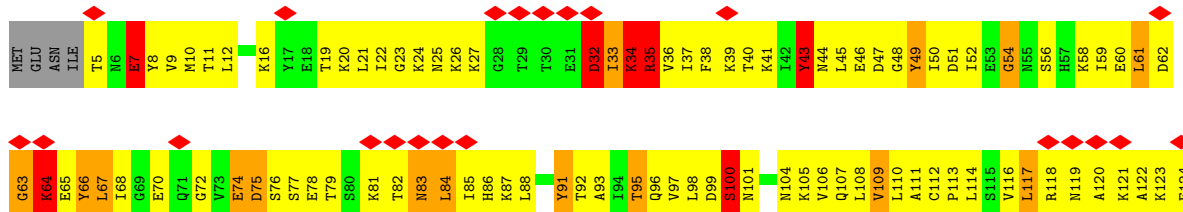


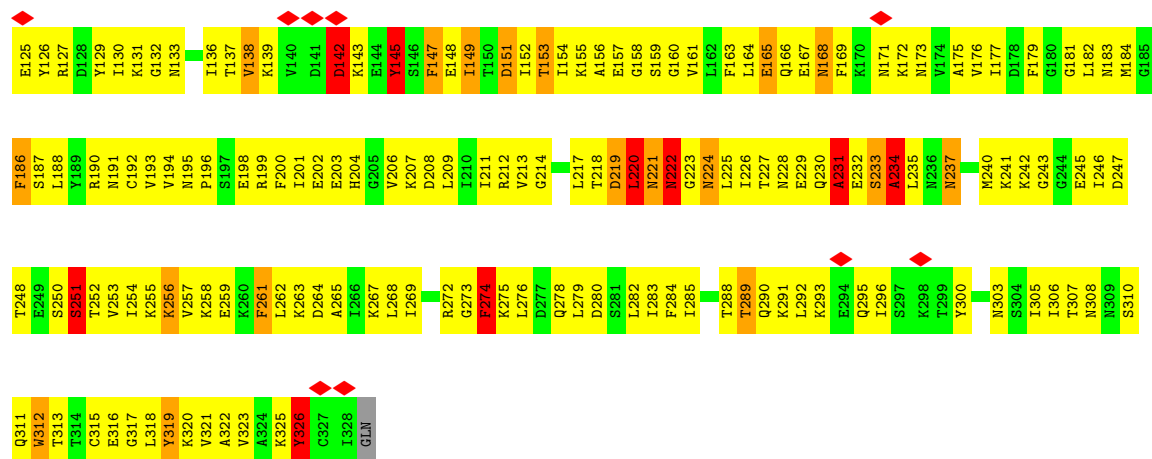


• Molecule 1: ALP12



• Molecule 1: ALP12





## 4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	HELICAL, twist=Not provided°, rise=Not provided Å, axial sym=Not provided	Depositor
Number of particles used	5582	Depositor
Resolution determination method	Not provided	
CTF correction method	EACH SCANNED IMAGE	Depositor
Microscope	HITACHI H7600	Depositor
Voltage (kV)	100	Depositor
Electron dose ( $e^-/\text{Å}^2$ )	Not provided	
Minimum defocus (nm)	800	Depositor
Maximum defocus (nm)	5000	Depositor
Magnification	40000	Depositor
Image detector	KODAK SO-163 FILM	Depositor
Maximum map value	2.222	Depositor
Minimum map value	-1.631	Depositor
Average map value	0.080	Depositor
Map value standard deviation	0.359	Depositor
Recommended contour level	0.88	Depositor
Map size (Å)	268.0, 268.0, 214.40001	wwPDB
Map dimensions	100, 100, 80	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	2.68, 2.68, 2.68	Depositor

## 5 Model quality [i](#)

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

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	0.71	1/2578 (0.0%)	1.64	70/3467 (2.0%)
1	B	0.71	1/2578 (0.0%)	1.64	70/3467 (2.0%)
1	C	0.71	1/2578 (0.0%)	1.64	70/3467 (2.0%)
1	D	0.71	1/2578 (0.0%)	1.64	69/3467 (2.0%)
1	E	0.71	1/2578 (0.0%)	1.64	68/3467 (2.0%)
1	F	0.71	1/2578 (0.0%)	1.64	69/3467 (2.0%)
1	G	0.71	1/2578 (0.0%)	1.64	68/3467 (2.0%)
1	H	0.71	1/2578 (0.0%)	1.64	70/3467 (2.0%)
1	I	0.71	1/2578 (0.0%)	1.64	69/3467 (2.0%)
1	J	0.71	1/2578 (0.0%)	1.64	69/3467 (2.0%)
1	K	0.71	1/2578 (0.0%)	1.64	70/3467 (2.0%)
1	L	0.71	1/2578 (0.0%)	1.64	69/3467 (2.0%)
1	M	0.71	1/2578 (0.0%)	1.64	70/3467 (2.0%)
1	N	0.71	1/2578 (0.0%)	1.64	70/3467 (2.0%)
1	O	0.71	1/2578 (0.0%)	1.64	70/3467 (2.0%)
1	P	0.71	1/2578 (0.0%)	1.64	70/3467 (2.0%)
All	All	0.71	16/41248 (0.0%)	1.64	1111/55472 (2.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	1	17
1	B	1	17
1	C	1	17
1	D	1	17
1	E	1	17
1	F	1	17
1	G	1	17
1	H	1	17
1	I	1	17

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	J	1	17
1	K	1	17
1	L	1	17
1	M	1	17
1	N	1	17
1	O	1	17
1	P	1	17
All	All	16	272

All (16) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	145	TYR	CE1-CZ	-6.69	1.29	1.38
1	D	145	TYR	CE1-CZ	-6.68	1.29	1.38
1	P	145	TYR	CE1-CZ	-6.66	1.29	1.38
1	A	145	TYR	CE1-CZ	-6.65	1.29	1.38
1	L	145	TYR	CE1-CZ	-6.64	1.29	1.38
1	N	145	TYR	CE1-CZ	-6.64	1.29	1.38
1	I	145	TYR	CE1-CZ	-6.63	1.29	1.38
1	K	145	TYR	CE1-CZ	-6.63	1.29	1.38
1	F	145	TYR	CE1-CZ	-6.63	1.29	1.38
1	G	145	TYR	CE1-CZ	-6.62	1.29	1.38
1	C	145	TYR	CE1-CZ	-6.62	1.29	1.38
1	E	145	TYR	CE1-CZ	-6.61	1.29	1.38
1	O	145	TYR	CE1-CZ	-6.61	1.29	1.38
1	B	145	TYR	CE1-CZ	-6.60	1.29	1.38
1	M	145	TYR	CE1-CZ	-6.60	1.29	1.38
1	H	145	TYR	CE1-CZ	-6.57	1.30	1.38

All (1111) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	222	ASN	N-CA-CB	-18.65	77.03	110.60
1	K	222	ASN	N-CA-CB	-18.63	77.07	110.60
1	I	222	ASN	N-CA-CB	-18.61	77.11	110.60
1	E	222	ASN	N-CA-CB	-18.60	77.11	110.60
1	H	222	ASN	N-CA-CB	-18.60	77.12	110.60
1	N	222	ASN	N-CA-CB	-18.59	77.14	110.60
1	C	222	ASN	N-CA-CB	-18.59	77.14	110.60
1	L	222	ASN	N-CA-CB	-18.59	77.14	110.60
1	A	222	ASN	N-CA-CB	-18.59	77.14	110.60
1	B	222	ASN	N-CA-CB	-18.59	77.14	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	222	ASN	N-CA-CB	-18.58	77.16	110.60
1	M	222	ASN	N-CA-CB	-18.58	77.16	110.60
1	O	222	ASN	N-CA-CB	-18.58	77.16	110.60
1	G	222	ASN	N-CA-CB	-18.57	77.17	110.60
1	J	222	ASN	N-CA-CB	-18.57	77.18	110.60
1	D	222	ASN	N-CA-CB	-18.55	77.20	110.60
1	A	237	ASN	CA-CB-CG	15.87	148.31	113.40
1	N	237	ASN	CA-CB-CG	15.86	148.29	113.40
1	I	237	ASN	CA-CB-CG	15.85	148.27	113.40
1	O	237	ASN	CA-CB-CG	15.85	148.27	113.40
1	H	237	ASN	CA-CB-CG	15.84	148.25	113.40
1	C	237	ASN	CA-CB-CG	15.84	148.25	113.40
1	K	237	ASN	CA-CB-CG	15.84	148.25	113.40
1	B	237	ASN	CA-CB-CG	15.84	148.24	113.40
1	D	237	ASN	CA-CB-CG	15.84	148.24	113.40
1	M	237	ASN	CA-CB-CG	15.83	148.23	113.40
1	P	237	ASN	CA-CB-CG	15.83	148.23	113.40
1	F	237	ASN	CA-CB-CG	15.83	148.22	113.40
1	L	237	ASN	CA-CB-CG	15.82	148.20	113.40
1	J	237	ASN	CA-CB-CG	15.82	148.20	113.40
1	E	237	ASN	CA-CB-CG	15.81	148.18	113.40
1	G	237	ASN	CA-CB-CG	15.80	148.17	113.40
1	M	326	TYR	CD1-CE1-CZ	15.76	133.98	119.80
1	N	326	TYR	CD1-CE1-CZ	15.74	133.96	119.80
1	B	326	TYR	CD1-CE1-CZ	15.71	133.94	119.80
1	D	326	TYR	CD1-CE1-CZ	15.70	133.93	119.80
1	A	326	TYR	CD1-CE1-CZ	15.69	133.92	119.80
1	P	326	TYR	CD1-CE1-CZ	15.67	133.91	119.80
1	C	326	TYR	CD1-CE1-CZ	15.66	133.90	119.80
1	H	326	TYR	CD1-CE1-CZ	15.66	133.89	119.80
1	F	326	TYR	CD1-CE1-CZ	15.66	133.89	119.80
1	K	326	TYR	CD1-CE1-CZ	15.65	133.88	119.80
1	O	326	TYR	CD1-CE1-CZ	15.65	133.88	119.80
1	L	326	TYR	CD1-CE1-CZ	15.64	133.88	119.80
1	J	326	TYR	CD1-CE1-CZ	15.64	133.87	119.80
1	E	326	TYR	CD1-CE1-CZ	15.63	133.87	119.80
1	I	326	TYR	CD1-CE1-CZ	15.61	133.85	119.80
1	G	326	TYR	CD1-CE1-CZ	15.61	133.84	119.80
1	F	64	LYS	CA-CB-CG	15.23	146.90	113.40
1	H	64	LYS	CA-CB-CG	15.22	146.89	113.40
1	L	64	LYS	CA-CB-CG	15.22	146.88	113.40
1	I	64	LYS	CA-CB-CG	15.21	146.87	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	64	LYS	CA-CB-CG	15.21	146.87	113.40
1	K	64	LYS	CA-CB-CG	15.22	146.87	113.40
1	E	64	LYS	CA-CB-CG	15.20	146.83	113.40
1	G	64	LYS	CA-CB-CG	15.19	146.82	113.40
1	O	64	LYS	CA-CB-CG	15.19	146.82	113.40
1	P	64	LYS	CA-CB-CG	15.19	146.82	113.40
1	C	64	LYS	CA-CB-CG	15.18	146.80	113.40
1	A	64	LYS	CA-CB-CG	15.18	146.79	113.40
1	B	64	LYS	CA-CB-CG	15.17	146.77	113.40
1	D	64	LYS	CA-CB-CG	15.16	146.76	113.40
1	N	64	LYS	CA-CB-CG	15.15	146.73	113.40
1	M	64	LYS	CA-CB-CG	15.13	146.68	113.40
1	E	145	TYR	CE1-CZ-OH	-13.67	83.19	120.10
1	L	145	TYR	CE1-CZ-OH	-13.65	83.24	120.10
1	F	145	TYR	CE1-CZ-OH	-13.65	83.25	120.10
1	O	145	TYR	CE1-CZ-OH	-13.65	83.25	120.10
1	G	145	TYR	CE1-CZ-OH	-13.64	83.26	120.10
1	D	145	TYR	CE1-CZ-OH	-13.64	83.27	120.10
1	M	145	TYR	CE1-CZ-OH	-13.64	83.28	120.10
1	I	145	TYR	CE1-CZ-OH	-13.64	83.28	120.10
1	H	145	TYR	CE1-CZ-OH	-13.63	83.28	120.10
1	J	145	TYR	CE1-CZ-OH	-13.63	83.29	120.10
1	A	145	TYR	CE1-CZ-OH	-13.63	83.29	120.10
1	N	145	TYR	CE1-CZ-OH	-13.63	83.30	120.10
1	B	145	TYR	CE1-CZ-OH	-13.63	83.30	120.10
1	P	145	TYR	CE1-CZ-OH	-13.62	83.32	120.10
1	C	145	TYR	CE1-CZ-OH	-13.62	83.33	120.10
1	K	145	TYR	CE1-CZ-OH	-13.62	83.33	120.10
1	H	145	TYR	OH-CZ-CE2	10.87	149.46	120.10
1	E	145	TYR	OH-CZ-CE2	10.86	149.43	120.10
1	L	145	TYR	OH-CZ-CE2	10.86	149.41	120.10
1	F	145	TYR	OH-CZ-CE2	10.85	149.40	120.10
1	O	145	TYR	OH-CZ-CE2	10.85	149.39	120.10
1	G	145	TYR	OH-CZ-CE2	10.84	149.38	120.10
1	A	145	TYR	OH-CZ-CE2	10.84	149.36	120.10
1	B	145	TYR	OH-CZ-CE2	10.84	149.36	120.10
1	I	145	TYR	OH-CZ-CE2	10.84	149.36	120.10
1	K	145	TYR	OH-CZ-CE2	10.84	149.36	120.10
1	C	145	TYR	OH-CZ-CE2	10.83	149.35	120.10
1	M	145	TYR	OH-CZ-CE2	10.83	149.34	120.10
1	N	145	TYR	OH-CZ-CE2	10.83	149.34	120.10
1	J	145	TYR	OH-CZ-CE2	10.83	149.34	120.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	145	TYR	OH-CZ-CE2	10.83	149.33	120.10
1	D	145	TYR	OH-CZ-CE2	10.82	149.31	120.10
1	L	67	LEU	N-CA-CB	-10.51	89.39	110.40
1	B	67	LEU	N-CA-CB	-10.50	89.40	110.40
1	G	67	LEU	N-CA-CB	-10.50	89.40	110.40
1	N	67	LEU	N-CA-CB	-10.50	89.41	110.40
1	M	67	LEU	N-CA-CB	-10.49	89.42	110.40
1	C	67	LEU	N-CA-CB	-10.49	89.43	110.40
1	D	67	LEU	N-CA-CB	-10.48	89.43	110.40
1	F	67	LEU	N-CA-CB	-10.48	89.43	110.40
1	K	67	LEU	N-CA-CB	-10.48	89.43	110.40
1	P	67	LEU	N-CA-CB	-10.48	89.43	110.40
1	A	67	LEU	N-CA-CB	-10.48	89.44	110.40
1	E	67	LEU	N-CA-CB	-10.48	89.44	110.40
1	I	67	LEU	N-CA-CB	-10.47	89.45	110.40
1	O	67	LEU	N-CA-CB	-10.47	89.45	110.40
1	J	67	LEU	N-CA-CB	-10.47	89.46	110.40
1	H	67	LEU	N-CA-CB	-10.45	89.50	110.40
1	D	224	ASN	N-CA-CB	-10.35	91.97	110.60
1	A	224	ASN	N-CA-CB	-10.33	92.00	110.60
1	K	224	ASN	N-CA-CB	-10.33	92.00	110.60
1	B	224	ASN	N-CA-CB	-10.33	92.00	110.60
1	L	224	ASN	N-CA-CB	-10.33	92.01	110.60
1	F	224	ASN	N-CA-CB	-10.32	92.02	110.60
1	N	224	ASN	N-CA-CB	-10.32	92.03	110.60
1	C	224	ASN	N-CA-CB	-10.32	92.03	110.60
1	G	224	ASN	N-CA-CB	-10.32	92.03	110.60
1	M	224	ASN	N-CA-CB	-10.32	92.03	110.60
1	O	224	ASN	N-CA-CB	-10.31	92.04	110.60
1	H	224	ASN	N-CA-CB	-10.31	92.04	110.60
1	I	224	ASN	N-CA-CB	-10.31	92.05	110.60
1	P	224	ASN	N-CA-CB	-10.31	92.04	110.60
1	E	224	ASN	N-CA-CB	-10.31	92.05	110.60
1	J	224	ASN	N-CA-CB	-10.29	92.08	110.60
1	N	326	TYR	CG-CD1-CE1	-10.20	113.14	121.30
1	C	326	TYR	CG-CD1-CE1	-10.20	113.14	121.30
1	K	326	TYR	CG-CD1-CE1	-10.19	113.15	121.30
1	F	326	TYR	CG-CD1-CE1	-10.19	113.15	121.30
1	B	326	TYR	CG-CD1-CE1	-10.18	113.15	121.30
1	M	326	TYR	CG-CD1-CE1	-10.18	113.15	121.30
1	A	149	ILE	CB-CG1-CD1	-10.17	85.43	113.90
1	E	149	ILE	CB-CG1-CD1	-10.16	85.44	113.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	326	TYR	CG-CD1-CE1	-10.16	113.17	121.30
1	K	149	ILE	CB-CG1-CD1	-10.16	85.44	113.90
1	N	149	ILE	CB-CG1-CD1	-10.16	85.45	113.90
1	I	149	ILE	CB-CG1-CD1	-10.16	85.46	113.90
1	M	149	ILE	CB-CG1-CD1	-10.16	85.46	113.90
1	O	326	TYR	CG-CD1-CE1	-10.16	113.17	121.30
1	B	149	ILE	CB-CG1-CD1	-10.15	85.47	113.90
1	C	149	ILE	CB-CG1-CD1	-10.15	85.47	113.90
1	D	149	ILE	CB-CG1-CD1	-10.15	85.47	113.90
1	L	149	ILE	CB-CG1-CD1	-10.15	85.47	113.90
1	F	149	ILE	CB-CG1-CD1	-10.15	85.48	113.90
1	G	149	ILE	CB-CG1-CD1	-10.15	85.48	113.90
1	H	149	ILE	CB-CG1-CD1	-10.15	85.48	113.90
1	P	149	ILE	CB-CG1-CD1	-10.15	85.48	113.90
1	J	149	ILE	CB-CG1-CD1	-10.15	85.49	113.90
1	O	149	ILE	CB-CG1-CD1	-10.14	85.51	113.90
1	I	326	TYR	CG-CD1-CE1	-10.13	113.19	121.30
1	A	326	TYR	CG-CD1-CE1	-10.12	113.20	121.30
1	D	326	TYR	CG-CD1-CE1	-10.12	113.20	121.30
1	L	326	TYR	CG-CD1-CE1	-10.12	113.20	121.30
1	E	326	TYR	CG-CD1-CE1	-10.12	113.21	121.30
1	P	326	TYR	CG-CD1-CE1	-10.11	113.21	121.30
1	H	326	TYR	CG-CD1-CE1	-10.11	113.22	121.30
1	G	326	TYR	CG-CD1-CE1	-10.09	113.23	121.30
1	F	224	ASN	CB-CG-OD1	-9.96	101.69	121.60
1	M	224	ASN	CB-CG-OD1	-9.96	101.68	121.60
1	L	224	ASN	CB-CG-OD1	-9.96	101.69	121.60
1	K	224	ASN	CB-CG-OD1	-9.95	101.70	121.60
1	D	224	ASN	CB-CG-OD1	-9.94	101.72	121.60
1	P	224	ASN	CB-CG-OD1	-9.94	101.72	121.60
1	J	224	ASN	CB-CG-OD1	-9.94	101.72	121.60
1	O	224	ASN	CB-CG-OD1	-9.94	101.73	121.60
1	H	224	ASN	CB-CG-OD1	-9.93	101.75	121.60
1	A	224	ASN	CB-CG-OD1	-9.92	101.75	121.60
1	B	224	ASN	CB-CG-OD1	-9.92	101.75	121.60
1	C	224	ASN	CB-CG-OD1	-9.92	101.75	121.60
1	E	224	ASN	CB-CG-OD1	-9.92	101.76	121.60
1	I	224	ASN	CB-CG-OD1	-9.92	101.77	121.60
1	G	224	ASN	CB-CG-OD1	-9.91	101.78	121.60
1	N	224	ASN	CB-CG-OD1	-9.90	101.80	121.60
1	O	274	PHE	CB-CG-CD1	-9.84	113.91	120.80
1	D	274	PHE	CB-CG-CD1	-9.80	113.94	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	274	PHE	CB-CG-CD1	-9.81	113.94	120.80
1	H	274	PHE	CB-CG-CD1	-9.79	113.95	120.80
1	B	274	PHE	CB-CG-CD1	-9.78	113.95	120.80
1	C	274	PHE	CB-CG-CD1	-9.78	113.95	120.80
1	I	274	PHE	CB-CG-CD1	-9.77	113.96	120.80
1	A	274	PHE	CB-CG-CD1	-9.77	113.96	120.80
1	M	274	PHE	CB-CG-CD1	-9.75	113.97	120.80
1	P	274	PHE	CB-CG-CD1	-9.75	113.97	120.80
1	N	274	PHE	CB-CG-CD1	-9.74	113.98	120.80
1	G	274	PHE	CB-CG-CD1	-9.73	113.99	120.80
1	J	274	PHE	CB-CG-CD1	-9.73	113.99	120.80
1	L	274	PHE	CB-CG-CD1	-9.72	113.99	120.80
1	F	274	PHE	CB-CG-CD1	-9.72	114.00	120.80
1	E	274	PHE	CB-CG-CD1	-9.71	114.00	120.80
1	C	32	ASP	N-CA-CB	-9.53	93.44	110.60
1	G	32	ASP	N-CA-CB	-9.53	93.45	110.60
1	I	32	ASP	N-CA-CB	-9.52	93.46	110.60
1	L	32	ASP	N-CA-CB	-9.52	93.46	110.60
1	M	32	ASP	N-CA-CB	-9.52	93.46	110.60
1	N	32	ASP	N-CA-CB	-9.52	93.46	110.60
1	D	32	ASP	N-CA-CB	-9.52	93.47	110.60
1	A	32	ASP	N-CA-CB	-9.52	93.47	110.60
1	H	32	ASP	N-CA-CB	-9.51	93.48	110.60
1	J	32	ASP	N-CA-CB	-9.51	93.48	110.60
1	P	32	ASP	N-CA-CB	-9.51	93.48	110.60
1	F	32	ASP	N-CA-CB	-9.51	93.49	110.60
1	B	32	ASP	N-CA-CB	-9.50	93.49	110.60
1	O	32	ASP	N-CA-CB	-9.50	93.50	110.60
1	E	32	ASP	N-CA-CB	-9.50	93.50	110.60
1	K	32	ASP	N-CA-CB	-9.49	93.51	110.60
1	C	274	PHE	CB-CG-CD2	9.09	127.16	120.80
1	N	274	PHE	CB-CG-CD2	9.04	127.12	120.80
1	P	274	PHE	CB-CG-CD2	9.01	127.11	120.80
1	D	274	PHE	CB-CG-CD2	9.00	127.10	120.80
1	I	274	PHE	CB-CG-CD2	8.97	127.08	120.80
1	K	274	PHE	CB-CG-CD2	8.96	127.08	120.80
1	M	274	PHE	CB-CG-CD2	8.97	127.08	120.80
1	A	274	PHE	CB-CG-CD2	8.96	127.07	120.80
1	H	274	PHE	CB-CG-CD2	8.95	127.06	120.80
1	B	274	PHE	CB-CG-CD2	8.94	127.06	120.80
1	J	274	PHE	CB-CG-CD2	8.94	127.06	120.80
1	O	274	PHE	CB-CG-CD2	8.94	127.05	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	274	PHE	CB-CG-CD2	8.92	127.05	120.80
1	G	274	PHE	CB-CG-CD2	8.91	127.04	120.80
1	E	274	PHE	CB-CG-CD2	8.89	127.02	120.80
1	F	274	PHE	CB-CG-CD2	8.87	127.01	120.80
1	K	153	THR	CA-CB-CG2	-8.61	100.34	112.40
1	G	153	THR	CA-CB-CG2	-8.60	100.36	112.40
1	I	153	THR	CA-CB-CG2	-8.60	100.37	112.40
1	F	153	THR	CA-CB-CG2	-8.59	100.37	112.40
1	O	153	THR	CA-CB-CG2	-8.59	100.37	112.40
1	A	153	THR	CA-CB-CG2	-8.58	100.39	112.40
1	J	153	THR	CA-CB-CG2	-8.58	100.39	112.40
1	H	153	THR	CA-CB-CG2	-8.57	100.40	112.40
1	N	153	THR	CA-CB-CG2	-8.57	100.40	112.40
1	L	153	THR	CA-CB-CG2	-8.57	100.41	112.40
1	C	153	THR	CA-CB-CG2	-8.56	100.42	112.40
1	M	153	THR	CA-CB-CG2	-8.56	100.42	112.40
1	E	153	THR	CA-CB-CG2	-8.56	100.42	112.40
1	P	153	THR	CA-CB-CG2	-8.55	100.43	112.40
1	B	153	THR	CA-CB-CG2	-8.54	100.44	112.40
1	D	153	THR	CA-CB-CG2	-8.53	100.46	112.40
1	I	7	GLU	CB-CA-C	8.49	127.38	110.40
1	O	7	GLU	CB-CA-C	8.49	127.38	110.40
1	A	7	GLU	CB-CA-C	8.49	127.37	110.40
1	D	7	GLU	CB-CA-C	8.49	127.37	110.40
1	N	7	GLU	CB-CA-C	8.48	127.36	110.40
1	G	7	GLU	CB-CA-C	8.48	127.36	110.40
1	K	66	TYR	CB-CG-CD2	-8.48	115.91	121.00
1	L	7	GLU	CB-CA-C	8.48	127.36	110.40
1	J	7	GLU	CB-CA-C	8.47	127.34	110.40
1	K	7	GLU	CB-CA-C	8.47	127.34	110.40
1	P	7	GLU	CB-CA-C	8.47	127.34	110.40
1	H	7	GLU	CB-CA-C	8.47	127.34	110.40
1	M	7	GLU	CB-CA-C	8.47	127.34	110.40
1	B	7	GLU	CB-CA-C	8.47	127.33	110.40
1	C	7	GLU	CB-CA-C	8.46	127.31	110.40
1	E	7	GLU	CB-CA-C	8.45	127.31	110.40
1	F	7	GLU	CB-CA-C	8.44	127.28	110.40
1	H	66	TYR	CB-CG-CD2	-8.43	115.94	121.00
1	I	66	TYR	CB-CG-CD2	-8.43	115.94	121.00
1	P	66	TYR	CB-CG-CD2	-8.42	115.95	121.00
1	L	66	TYR	CB-CG-CD2	-8.40	115.96	121.00
1	G	66	TYR	CB-CG-CD2	-8.37	115.98	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	66	TYR	CB-CG-CD2	-8.37	115.98	121.00
1	M	66	TYR	CB-CG-CD2	-8.35	115.99	121.00
1	N	66	TYR	CB-CG-CD2	-8.34	116.00	121.00
1	E	66	TYR	CB-CG-CD2	-8.33	116.00	121.00
1	F	66	TYR	CB-CG-CD2	-8.33	116.00	121.00
1	C	66	TYR	CB-CG-CD2	-8.31	116.02	121.00
1	A	66	TYR	CB-CG-CD2	-8.29	116.02	121.00
1	A	233	SER	N-CA-CB	-8.29	98.07	110.50
1	D	66	TYR	CB-CG-CD2	-8.28	116.03	121.00
1	E	233	SER	N-CA-CB	-8.28	98.08	110.50
1	F	233	SER	N-CA-CB	-8.27	98.09	110.50
1	G	233	SER	N-CA-CB	-8.27	98.09	110.50
1	H	233	SER	N-CA-CB	-8.27	98.09	110.50
1	B	233	SER	N-CA-CB	-8.27	98.10	110.50
1	O	66	TYR	CB-CG-CD2	-8.26	116.04	121.00
1	P	233	SER	N-CA-CB	-8.26	98.11	110.50
1	O	233	SER	N-CA-CB	-8.26	98.11	110.50
1	L	233	SER	N-CA-CB	-8.25	98.12	110.50
1	N	233	SER	N-CA-CB	-8.25	98.12	110.50
1	I	233	SER	N-CA-CB	-8.25	98.12	110.50
1	J	233	SER	N-CA-CB	-8.25	98.13	110.50
1	K	233	SER	N-CA-CB	-8.25	98.13	110.50
1	C	233	SER	N-CA-CB	-8.23	98.15	110.50
1	D	233	SER	N-CA-CB	-8.23	98.16	110.50
1	M	233	SER	N-CA-CB	-8.22	98.18	110.50
1	B	66	TYR	CB-CG-CD2	-8.21	116.08	121.00
1	N	75	ASP	CB-CG-OD2	-7.91	111.18	118.30
1	N	138	VAL	CA-CB-CG2	-7.88	99.08	110.90
1	H	75	ASP	CB-CG-OD2	-7.87	111.21	118.30
1	K	138	VAL	CA-CB-CG2	-7.87	99.10	110.90
1	A	75	ASP	CB-CG-OD2	-7.86	111.23	118.30
1	K	75	ASP	CB-CG-OD2	-7.86	111.22	118.30
1	P	138	VAL	CA-CB-CG2	-7.86	99.11	110.90
1	D	138	VAL	CA-CB-CG2	-7.86	99.11	110.90
1	C	138	VAL	CA-CB-CG2	-7.85	99.12	110.90
1	B	138	VAL	CA-CB-CG2	-7.84	99.14	110.90
1	A	138	VAL	CA-CB-CG2	-7.84	99.14	110.90
1	O	138	VAL	CA-CB-CG2	-7.84	99.14	110.90
1	E	75	ASP	CB-CG-OD2	-7.84	111.25	118.30
1	G	75	ASP	CB-CG-OD2	-7.84	111.25	118.30
1	O	75	ASP	CB-CG-OD2	-7.84	111.25	118.30
1	B	75	ASP	CB-CG-OD2	-7.84	111.25	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	138	VAL	CA-CB-CG2	-7.84	99.15	110.90
1	P	75	ASP	CB-CG-OD2	-7.83	111.25	118.30
1	J	138	VAL	CA-CB-CG2	-7.83	99.15	110.90
1	G	138	VAL	CA-CB-CG2	-7.83	99.16	110.90
1	M	138	VAL	CA-CB-CG2	-7.83	99.16	110.90
1	C	75	ASP	CB-CG-OD2	-7.82	111.26	118.30
1	J	75	ASP	CB-CG-OD2	-7.82	111.27	118.30
1	F	75	ASP	CB-CG-OD2	-7.82	111.27	118.30
1	H	138	VAL	CA-CB-CG2	-7.81	99.18	110.90
1	L	138	VAL	CA-CB-CG2	-7.81	99.18	110.90
1	E	138	VAL	CA-CB-CG2	-7.81	99.18	110.90
1	M	75	ASP	CB-CG-OD2	-7.81	111.27	118.30
1	I	138	VAL	CA-CB-CG2	-7.80	99.20	110.90
1	D	75	ASP	CB-CG-OD2	-7.78	111.30	118.30
1	L	75	ASP	CB-CG-OD2	-7.77	111.31	118.30
1	I	75	ASP	CB-CG-OD2	-7.77	111.31	118.30
1	K	326	TYR	CB-CG-CD1	-7.75	116.35	121.00
1	J	326	TYR	CB-CG-CD1	-7.75	116.35	121.00
1	F	326	TYR	CB-CG-CD1	-7.74	116.36	121.00
1	M	224	ASN	CB-CG-ND2	7.71	135.21	116.70
1	B	224	ASN	CB-CG-ND2	7.71	135.20	116.70
1	F	224	ASN	CB-CG-ND2	7.71	135.20	116.70
1	N	224	ASN	CB-CG-ND2	7.70	135.18	116.70
1	D	224	ASN	CB-CG-ND2	7.70	135.17	116.70
1	O	224	ASN	CB-CG-ND2	7.70	135.17	116.70
1	C	224	ASN	CB-CG-ND2	7.69	135.16	116.70
1	J	224	ASN	CB-CG-ND2	7.69	135.15	116.70
1	K	224	ASN	CB-CG-ND2	7.69	135.15	116.70
1	L	224	ASN	CB-CG-ND2	7.68	135.14	116.70
1	P	224	ASN	CB-CG-ND2	7.68	135.14	116.70
1	E	326	TYR	CB-CG-CD1	-7.68	116.39	121.00
1	H	224	ASN	CB-CG-ND2	7.68	135.12	116.70
1	E	224	ASN	CB-CG-ND2	7.67	135.10	116.70
1	A	224	ASN	CB-CG-ND2	7.67	135.10	116.70
1	G	326	TYR	CB-CG-CD1	-7.67	116.40	121.00
1	I	224	ASN	CB-CG-ND2	7.67	135.10	116.70
1	G	224	ASN	CB-CG-ND2	7.66	135.08	116.70
1	I	326	TYR	CB-CG-CD1	-7.65	116.41	121.00
1	N	326	TYR	CB-CG-CD1	-7.65	116.41	121.00
1	B	326	TYR	CB-CG-CD1	-7.63	116.42	121.00
1	M	326	TYR	CB-CG-CD1	-7.62	116.43	121.00
1	C	326	TYR	CB-CG-CD1	-7.62	116.43	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	326	TYR	CB-CG-CD1	-7.61	116.43	121.00
1	O	326	TYR	CB-CG-CD1	-7.61	116.43	121.00
1	L	43	TYR	CB-CG-CD2	-7.61	116.44	121.00
1	A	326	TYR	CB-CG-CD1	-7.59	116.44	121.00
1	H	326	TYR	CB-CG-CD1	-7.59	116.45	121.00
1	P	326	TYR	CB-CG-CD1	-7.58	116.45	121.00
1	M	43	TYR	CB-CG-CD2	-7.58	116.45	121.00
1	D	43	TYR	CB-CG-CD2	-7.55	116.47	121.00
1	D	326	TYR	CB-CG-CD1	-7.54	116.47	121.00
1	E	43	TYR	CB-CG-CD2	-7.54	116.47	121.00
1	P	43	TYR	CB-CG-CD2	-7.54	116.48	121.00
1	E	326	TYR	CB-CG-CD2	7.54	125.52	121.00
1	F	43	TYR	CB-CG-CD2	-7.53	116.48	121.00
1	A	43	TYR	CB-CG-CD2	-7.53	116.48	121.00
1	O	43	TYR	CB-CG-CD2	-7.52	116.49	121.00
1	K	326	TYR	CB-CG-CD2	7.52	125.51	121.00
1	B	43	TYR	CB-CG-CD2	-7.52	116.49	121.00
1	H	43	TYR	CB-CG-CD2	-7.51	116.49	121.00
1	I	34	LYS	CB-CA-C	7.51	125.42	110.40
1	N	43	TYR	CB-CG-CD2	-7.51	116.49	121.00
1	G	34	LYS	CB-CA-C	7.50	125.40	110.40
1	E	34	LYS	CB-CA-C	7.50	125.39	110.40
1	H	34	LYS	CB-CA-C	7.50	125.39	110.40
1	K	43	TYR	CB-CG-CD2	-7.50	116.50	121.00
1	J	326	TYR	CB-CG-CD2	7.49	125.50	121.00
1	F	34	LYS	CB-CA-C	7.49	125.38	110.40
1	G	326	TYR	CB-CG-CD2	7.49	125.49	121.00
1	K	34	LYS	CB-CA-C	7.48	125.37	110.40
1	P	34	LYS	CB-CA-C	7.48	125.36	110.40
1	A	34	LYS	CB-CA-C	7.48	125.36	110.40
1	L	34	LYS	CB-CA-C	7.48	125.36	110.40
1	J	34	LYS	CB-CA-C	7.48	125.35	110.40
1	J	43	TYR	CB-CG-CD2	-7.48	116.51	121.00
1	L	326	TYR	CB-CG-CD2	7.47	125.48	121.00
1	D	34	LYS	CB-CA-C	7.47	125.34	110.40
1	N	326	TYR	CB-CG-CD2	7.47	125.48	121.00
1	M	34	LYS	CB-CA-C	7.47	125.34	110.40
1	N	34	LYS	CB-CA-C	7.47	125.34	110.40
1	I	43	TYR	CB-CG-CD2	-7.46	116.52	121.00
1	B	34	LYS	CB-CA-C	7.45	125.31	110.40
1	C	43	TYR	CB-CG-CD2	-7.45	116.53	121.00
1	G	43	TYR	CB-CG-CD2	-7.45	116.53	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	34	LYS	CB-CA-C	7.45	125.30	110.40
1	F	326	TYR	CB-CG-CD2	7.44	125.47	121.00
1	O	34	LYS	CB-CA-C	7.44	125.28	110.40
1	I	326	TYR	CB-CG-CD2	7.42	125.45	121.00
1	H	326	TYR	CB-CG-CD2	7.41	125.45	121.00
1	P	326	TYR	CB-CG-CD2	7.40	125.44	121.00
1	M	326	TYR	CB-CG-CD2	7.39	125.43	121.00
1	C	326	TYR	CB-CG-CD2	7.39	125.43	121.00
1	O	326	TYR	CB-CG-CD2	7.38	125.43	121.00
1	B	326	TYR	CB-CG-CD2	7.37	125.42	121.00
1	K	237	ASN	CB-CA-C	-7.37	95.66	110.40
1	I	237	ASN	CB-CA-C	-7.36	95.69	110.40
1	H	237	ASN	CB-CA-C	-7.35	95.70	110.40
1	J	237	ASN	CB-CA-C	-7.35	95.70	110.40
1	L	237	ASN	CB-CA-C	-7.35	95.71	110.40
1	F	237	ASN	CB-CA-C	-7.34	95.71	110.40
1	E	237	ASN	CB-CA-C	-7.34	95.73	110.40
1	A	326	TYR	CB-CG-CD2	7.33	125.40	121.00
1	G	237	ASN	CB-CA-C	-7.33	95.75	110.40
1	B	237	ASN	CB-CA-C	-7.32	95.76	110.40
1	D	237	ASN	CB-CA-C	-7.32	95.76	110.40
1	M	237	ASN	CB-CA-C	-7.32	95.77	110.40
1	P	237	ASN	CB-CA-C	-7.32	95.76	110.40
1	D	326	TYR	CB-CG-CD2	7.31	125.39	121.00
1	O	237	ASN	CB-CA-C	-7.31	95.78	110.40
1	N	237	ASN	CB-CA-C	-7.31	95.78	110.40
1	A	237	ASN	CB-CA-C	-7.30	95.81	110.40
1	C	237	ASN	CB-CA-C	-7.30	95.81	110.40
1	D	224	ASN	CA-CB-CG	7.10	129.03	113.40
1	M	224	ASN	CA-CB-CG	7.10	129.02	113.40
1	F	224	ASN	CA-CB-CG	7.10	129.01	113.40
1	O	224	ASN	CA-CB-CG	7.10	129.01	113.40
1	A	224	ASN	CA-CB-CG	7.08	128.99	113.40
1	B	224	ASN	CA-CB-CG	7.08	128.97	113.40
1	G	224	ASN	CA-CB-CG	7.08	128.97	113.40
1	C	224	ASN	CA-CB-CG	7.07	128.95	113.40
1	K	224	ASN	CA-CB-CG	7.07	128.95	113.40
1	P	224	ASN	CA-CB-CG	7.07	128.95	113.40
1	N	224	ASN	CA-CB-CG	7.06	128.94	113.40
1	H	224	ASN	CA-CB-CG	7.06	128.94	113.40
1	L	224	ASN	CA-CB-CG	7.06	128.93	113.40
1	E	224	ASN	CA-CB-CG	7.06	128.93	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	224	ASN	CA-CB-CG	7.06	128.93	113.40
1	I	224	ASN	CA-CB-CG	7.04	128.89	113.40
1	I	219	ASP	CB-CG-OD2	-7.00	112.00	118.30
1	C	219	ASP	CB-CG-OD2	-6.99	112.01	118.30
1	M	219	ASP	CB-CG-OD2	-6.99	112.01	118.30
1	D	219	ASP	CB-CG-OD2	-6.99	112.01	118.30
1	N	219	ASP	CB-CG-OD2	-6.98	112.01	118.30
1	E	219	ASP	CB-CG-OD2	-6.98	112.02	118.30
1	K	219	ASP	CB-CG-OD2	-6.98	112.02	118.30
1	G	219	ASP	CB-CG-OD2	-6.98	112.02	118.30
1	B	219	ASP	CB-CG-OD2	-6.97	112.02	118.30
1	P	219	ASP	CB-CG-OD2	-6.97	112.03	118.30
1	H	219	ASP	CB-CG-OD2	-6.96	112.03	118.30
1	L	219	ASP	CB-CG-OD2	-6.96	112.03	118.30
1	A	219	ASP	CB-CG-OD2	-6.94	112.06	118.30
1	F	219	ASP	CB-CG-OD2	-6.93	112.06	118.30
1	J	219	ASP	CB-CG-OD2	-6.92	112.07	118.30
1	O	219	ASP	CB-CG-OD2	-6.91	112.08	118.30
1	A	219	ASP	CB-CA-C	6.85	124.10	110.40
1	B	219	ASP	CB-CA-C	6.83	124.06	110.40
1	P	219	ASP	CB-CA-C	6.83	124.06	110.40
1	F	219	ASP	CB-CA-C	6.82	124.05	110.40
1	O	219	ASP	CB-CA-C	6.82	124.04	110.40
1	M	219	ASP	CB-CA-C	6.82	124.04	110.40
1	C	219	ASP	CB-CA-C	6.82	124.03	110.40
1	L	219	ASP	CB-CA-C	6.82	124.03	110.40
1	E	219	ASP	CB-CA-C	6.81	124.02	110.40
1	N	219	ASP	CB-CA-C	6.81	124.02	110.40
1	D	219	ASP	CB-CA-C	6.81	124.02	110.40
1	K	219	ASP	CB-CA-C	6.81	124.02	110.40
1	I	219	ASP	CB-CA-C	6.79	123.98	110.40
1	H	219	ASP	CB-CA-C	6.79	123.98	110.40
1	J	219	ASP	CB-CA-C	6.78	123.96	110.40
1	L	100	SER	CB-CA-C	6.77	122.96	110.10
1	J	100	SER	CB-CA-C	6.77	122.96	110.10
1	G	100	SER	CB-CA-C	6.76	122.95	110.10
1	F	100	SER	CB-CA-C	6.76	122.94	110.10
1	G	219	ASP	CB-CA-C	6.76	123.92	110.40
1	I	100	SER	CB-CA-C	6.76	122.94	110.10
1	H	100	SER	CB-CA-C	6.75	122.92	110.10
1	K	100	SER	CB-CA-C	6.74	122.90	110.10
1	O	100	SER	CB-CA-C	6.73	122.89	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	100	SER	CB-CA-C	6.73	122.88	110.10
1	A	100	SER	CB-CA-C	6.72	122.87	110.10
1	B	32	ASP	CB-CG-OD1	-6.72	112.25	118.30
1	M	32	ASP	CB-CG-OD1	-6.72	112.25	118.30
1	E	100	SER	CB-CA-C	6.72	122.86	110.10
1	D	100	SER	CB-CA-C	6.72	122.86	110.10
1	M	100	SER	CB-CA-C	6.72	122.86	110.10
1	B	100	SER	CB-CA-C	6.71	122.85	110.10
1	C	100	SER	CB-CA-C	6.70	122.83	110.10
1	N	100	SER	CB-CA-C	6.70	122.83	110.10
1	H	145	TYR	CG-CD2-CE2	-6.70	115.94	121.30
1	C	222	ASN	CA-CB-CG	6.69	128.11	113.40
1	F	145	TYR	CG-CD2-CE2	-6.68	115.95	121.30
1	H	222	ASN	CA-CB-CG	6.68	128.10	113.40
1	A	32	ASP	CB-CG-OD1	-6.68	112.29	118.30
1	O	222	ASN	CA-CB-CG	6.68	128.09	113.40
1	L	222	ASN	CA-CB-CG	6.68	128.09	113.40
1	E	222	ASN	CA-CB-CG	6.67	128.09	113.40
1	P	222	ASN	CA-CB-CG	6.67	128.08	113.40
1	O	32	ASP	CB-CG-OD1	-6.67	112.30	118.30
1	D	222	ASN	CA-CB-CG	6.67	128.07	113.40
1	C	145	TYR	CG-CD2-CE2	-6.67	115.97	121.30
1	N	32	ASP	CB-CG-OD1	-6.67	112.30	118.30
1	K	32	ASP	CB-CG-OD1	-6.66	112.30	118.30
1	N	222	ASN	CA-CB-CG	6.66	128.06	113.40
1	H	32	ASP	CB-CG-OD1	-6.66	112.30	118.30
1	I	222	ASN	CA-CB-CG	6.66	128.06	113.40
1	B	222	ASN	CA-CB-CG	6.66	128.06	113.40
1	D	32	ASP	CB-CG-OD1	-6.66	112.31	118.30
1	J	222	ASN	CA-CB-CG	6.66	128.06	113.40
1	C	32	ASP	CB-CG-OD1	-6.66	112.31	118.30
1	G	222	ASN	CA-CB-CG	6.66	128.05	113.40
1	K	222	ASN	CA-CB-CG	6.66	128.05	113.40
1	F	222	ASN	CA-CB-CG	6.66	128.04	113.40
1	E	145	TYR	CG-CD2-CE2	-6.66	115.98	121.30
1	K	145	TYR	CG-CD2-CE2	-6.66	115.98	121.30
1	M	222	ASN	CA-CB-CG	6.66	128.04	113.40
1	J	32	ASP	CB-CG-OD1	-6.65	112.31	118.30
1	L	32	ASP	CB-CG-OD1	-6.65	112.31	118.30
1	E	32	ASP	CB-CG-OD1	-6.65	112.31	118.30
1	A	222	ASN	CA-CB-CG	6.65	128.02	113.40
1	P	32	ASP	CB-CG-OD1	-6.64	112.32	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	32	ASP	CB-CG-OD1	-6.62	112.34	118.30
1	B	145	TYR	CG-CD2-CE2	-6.62	116.01	121.30
1	F	32	ASP	CB-CG-OD1	-6.61	112.35	118.30
1	A	145	TYR	CG-CD2-CE2	-6.61	116.01	121.30
1	I	32	ASP	CB-CG-OD1	-6.61	112.35	118.30
1	I	145	TYR	CG-CD2-CE2	-6.60	116.02	121.30
1	L	145	TYR	CG-CD2-CE2	-6.60	116.02	121.30
1	N	145	TYR	CG-CD2-CE2	-6.60	116.02	121.30
1	J	145	TYR	CG-CD2-CE2	-6.60	116.02	121.30
1	O	145	TYR	CG-CD2-CE2	-6.59	116.03	121.30
1	G	145	TYR	CG-CD2-CE2	-6.59	116.03	121.30
1	D	145	TYR	CG-CD2-CE2	-6.57	116.04	121.30
1	P	145	TYR	CG-CD2-CE2	-6.53	116.08	121.30
1	M	145	TYR	CG-CD2-CE2	-6.52	116.09	121.30
1	B	49	TYR	CZ-CE2-CD2	6.40	125.56	119.80
1	M	49	TYR	CZ-CE2-CD2	6.40	125.56	119.80
1	O	49	TYR	CZ-CE2-CD2	6.38	125.55	119.80
1	H	220	LEU	CA-C-O	-6.36	106.74	120.10
1	M	220	LEU	CA-C-O	-6.36	106.75	120.10
1	D	220	LEU	CA-C-O	-6.35	106.76	120.10
1	F	220	LEU	CA-C-O	-6.35	106.76	120.10
1	P	220	LEU	CA-C-O	-6.35	106.76	120.10
1	I	220	LEU	CA-C-O	-6.35	106.77	120.10
1	N	220	LEU	CA-C-O	-6.35	106.77	120.10
1	K	220	LEU	CA-C-O	-6.35	106.77	120.10
1	L	220	LEU	CA-C-O	-6.35	106.77	120.10
1	D	49	TYR	CZ-CE2-CD2	6.34	125.51	119.80
1	G	220	LEU	CA-C-O	-6.34	106.78	120.10
1	A	49	TYR	CZ-CE2-CD2	6.34	125.51	119.80
1	A	220	LEU	CA-C-O	-6.34	106.79	120.10
1	G	49	TYR	CZ-CE2-CD2	6.34	125.50	119.80
1	I	49	TYR	CZ-CE2-CD2	6.34	125.50	119.80
1	K	312	TRP	CD1-NE1-CE2	6.33	114.70	109.00
1	E	220	LEU	CA-C-O	-6.33	106.80	120.10
1	O	220	LEU	CA-C-O	-6.33	106.80	120.10
1	C	220	LEU	CA-C-O	-6.33	106.80	120.10
1	J	220	LEU	CA-C-O	-6.33	106.80	120.10
1	N	49	TYR	CZ-CE2-CD2	6.33	125.50	119.80
1	N	312	TRP	CD1-NE1-CE2	6.33	114.70	109.00
1	C	312	TRP	CD1-NE1-CE2	6.33	114.69	109.00
1	B	220	LEU	CA-C-O	-6.32	106.82	120.10
1	B	312	TRP	CD1-NE1-CE2	6.32	114.69	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	49	TYR	CZ-CE2-CD2	6.32	125.49	119.80
1	M	312	TRP	CD1-NE1-CE2	6.32	114.69	109.00
1	C	49	TYR	CZ-CE2-CD2	6.31	125.48	119.80
1	K	49	TYR	CZ-CE2-CD2	6.31	125.48	119.80
1	A	312	TRP	CD1-NE1-CE2	6.31	114.68	109.00
1	L	49	TYR	CZ-CE2-CD2	6.30	125.47	119.80
1	F	312	TRP	CD1-NE1-CE2	6.30	114.67	109.00
1	I	312	TRP	CD1-NE1-CE2	6.29	114.66	109.00
1	P	49	TYR	CZ-CE2-CD2	6.29	125.47	119.80
1	P	312	TRP	CD1-NE1-CE2	6.29	114.66	109.00
1	F	234	ALA	CB-CA-C	6.29	119.53	110.10
1	B	234	ALA	CB-CA-C	6.29	119.53	110.10
1	O	234	ALA	CB-CA-C	6.28	119.52	110.10
1	L	234	ALA	CB-CA-C	6.28	119.52	110.10
1	J	49	TYR	CZ-CE2-CD2	6.27	125.44	119.80
1	E	312	TRP	CD1-NE1-CE2	6.27	114.64	109.00
1	N	234	ALA	CB-CA-C	6.27	119.51	110.10
1	E	234	ALA	CB-CA-C	6.27	119.50	110.10
1	F	49	TYR	CZ-CE2-CD2	6.27	125.44	119.80
1	G	234	ALA	CB-CA-C	6.27	119.50	110.10
1	D	312	TRP	CD1-NE1-CE2	6.26	114.64	109.00
1	O	312	TRP	CD1-NE1-CE2	6.26	114.64	109.00
1	H	234	ALA	CB-CA-C	6.26	119.49	110.10
1	J	234	ALA	CB-CA-C	6.26	119.49	110.10
1	E	49	TYR	CZ-CE2-CD2	6.25	125.43	119.80
1	L	312	TRP	CD1-NE1-CE2	6.25	114.63	109.00
1	D	234	ALA	CB-CA-C	6.25	119.48	110.10
1	I	234	ALA	CB-CA-C	6.25	119.48	110.10
1	P	234	ALA	CB-CA-C	6.25	119.48	110.10
1	M	234	ALA	CB-CA-C	6.25	119.47	110.10
1	H	312	TRP	CD1-NE1-CE2	6.25	114.62	109.00
1	C	234	ALA	CB-CA-C	6.25	119.47	110.10
1	A	234	ALA	CB-CA-C	6.24	119.45	110.10
1	J	312	TRP	CD1-NE1-CE2	6.23	114.60	109.00
1	K	234	ALA	CB-CA-C	6.22	119.44	110.10
1	C	109	VAL	CA-CB-CG2	-6.22	101.57	110.90
1	N	109	VAL	CA-CB-CG2	-6.22	101.57	110.90
1	A	109	VAL	CA-CB-CG2	-6.21	101.59	110.90
1	G	312	TRP	CD1-NE1-CE2	6.21	114.59	109.00
1	G	109	VAL	CA-CB-CG2	-6.21	101.59	110.90
1	O	109	VAL	CA-CB-CG2	-6.19	101.61	110.90
1	D	109	VAL	CA-CB-CG2	-6.19	101.61	110.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	109	VAL	CA-CB-CG2	-6.19	101.61	110.90
1	B	109	VAL	CA-CB-CG2	-6.19	101.62	110.90
1	G	237	ASN	CA-C-N	-6.18	103.83	116.20
1	M	109	VAL	CA-CB-CG2	-6.18	101.62	110.90
1	L	237	ASN	CA-C-N	-6.18	103.84	116.20
1	P	109	VAL	CA-CB-CG2	-6.18	101.63	110.90
1	K	109	VAL	CA-CB-CG2	-6.18	101.63	110.90
1	F	109	VAL	CA-CB-CG2	-6.18	101.64	110.90
1	J	109	VAL	CA-CB-CG2	-6.17	101.64	110.90
1	L	109	VAL	CA-CB-CG2	-6.17	101.64	110.90
1	K	237	ASN	CA-C-N	-6.17	103.87	116.20
1	H	237	ASN	CA-C-N	-6.16	103.87	116.20
1	E	109	VAL	CA-CB-CG2	-6.16	101.66	110.90
1	E	237	ASN	CA-C-N	-6.16	103.89	116.20
1	J	237	ASN	CA-C-N	-6.15	103.91	116.20
1	F	237	ASN	CA-C-N	-6.14	103.91	116.20
1	H	109	VAL	CA-CB-CG2	-6.14	101.69	110.90
1	N	32	ASP	CB-CA-C	6.14	122.68	110.40
1	A	237	ASN	CA-C-N	-6.14	103.93	116.20
1	B	237	ASN	CA-C-N	-6.14	103.93	116.20
1	N	237	ASN	CA-C-N	-6.14	103.93	116.20
1	C	32	ASP	CB-CA-C	6.13	122.67	110.40
1	I	237	ASN	CA-C-N	-6.13	103.94	116.20
1	L	32	ASP	CB-CA-C	6.13	122.66	110.40
1	M	237	ASN	CA-C-N	-6.13	103.94	116.20
1	D	237	ASN	CA-C-N	-6.13	103.94	116.20
1	P	32	ASP	CB-CA-C	6.12	122.65	110.40
1	D	32	ASP	CB-CA-C	6.12	122.65	110.40
1	P	237	ASN	CA-C-N	-6.12	103.95	116.20
1	M	32	ASP	CB-CA-C	6.12	122.64	110.40
1	N	220	LEU	CD1-CG-CD2	-6.12	92.14	110.50
1	O	220	LEU	CD1-CG-CD2	-6.12	92.14	110.50
1	C	237	ASN	CA-C-N	-6.12	103.97	116.20
1	B	220	LEU	CD1-CG-CD2	-6.11	92.17	110.50
1	A	220	LEU	CD1-CG-CD2	-6.11	92.17	110.50
1	I	32	ASP	CB-CA-C	6.11	122.62	110.40
1	C	220	LEU	CD1-CG-CD2	-6.11	92.17	110.50
1	P	220	LEU	CD1-CG-CD2	-6.11	92.17	110.50
1	A	32	ASP	CB-CA-C	6.11	122.61	110.40
1	F	32	ASP	CB-CA-C	6.11	122.61	110.40
1	L	220	LEU	CD1-CG-CD2	-6.11	92.18	110.50
1	B	32	ASP	CB-CA-C	6.11	122.61	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	220	LEU	CD1-CG-CD2	-6.11	92.18	110.50
1	O	237	ASN	CA-C-N	-6.10	104.00	116.20
1	I	220	LEU	CD1-CG-CD2	-6.10	92.20	110.50
1	H	220	LEU	CD1-CG-CD2	-6.10	92.21	110.50
1	G	220	LEU	CD1-CG-CD2	-6.10	92.21	110.50
1	E	32	ASP	CB-CA-C	6.09	122.59	110.40
1	H	32	ASP	CB-CA-C	6.09	122.59	110.40
1	E	220	LEU	CD1-CG-CD2	-6.09	92.22	110.50
1	O	32	ASP	CB-CA-C	6.09	122.59	110.40
1	G	32	ASP	CB-CA-C	6.09	122.58	110.40
1	J	220	LEU	CD1-CG-CD2	-6.09	92.23	110.50
1	K	32	ASP	CB-CA-C	6.08	122.57	110.40
1	M	220	LEU	CD1-CG-CD2	-6.08	92.25	110.50
1	F	220	LEU	CD1-CG-CD2	-6.08	92.26	110.50
1	J	32	ASP	CB-CA-C	6.08	122.56	110.40
1	K	220	LEU	CD1-CG-CD2	-6.08	92.27	110.50
1	D	145	TYR	CB-CG-CD1	-6.01	117.39	121.00
1	J	7	GLU	CG-CD-OE1	5.98	130.26	118.30
1	G	7	GLU	CG-CD-OE1	5.95	130.21	118.30
1	F	7	GLU	CG-CD-OE1	5.95	130.20	118.30
1	B	7	GLU	CG-CD-OE1	5.95	130.20	118.30
1	D	7	GLU	CG-CD-OE1	5.95	130.19	118.30
1	L	7	GLU	CG-CD-OE1	5.95	130.19	118.30
1	E	7	GLU	CG-CD-OE1	5.94	130.18	118.30
1	I	7	GLU	CG-CD-OE1	5.94	130.18	118.30
1	K	7	GLU	CG-CD-OE1	5.94	130.18	118.30
1	M	145	TYR	CB-CG-CD1	-5.94	117.44	121.00
1	O	7	GLU	CG-CD-OE1	5.94	130.17	118.30
1	H	7	GLU	CG-CD-OE1	5.93	130.17	118.30
1	K	186	PHE	CB-CG-CD1	5.93	124.95	120.80
1	A	7	GLU	CG-CD-OE1	5.93	130.16	118.30
1	M	7	GLU	CG-CD-OE1	5.93	130.17	118.30
1	C	145	TYR	CB-CG-CD1	-5.92	117.45	121.00
1	N	7	GLU	CG-CD-OE1	5.92	130.15	118.30
1	P	7	GLU	CG-CD-OE1	5.92	130.14	118.30
1	B	145	TYR	CB-CG-CD1	-5.92	117.45	121.00
1	H	186	PHE	CB-CG-CD1	5.92	124.94	120.80
1	E	186	PHE	CB-CG-CD1	5.92	124.94	120.80
1	P	145	TYR	CB-CG-CD1	-5.92	117.45	121.00
1	E	95	THR	CA-CB-CG2	-5.91	104.13	112.40
1	C	7	GLU	CG-CD-OE1	5.90	130.11	118.30
1	G	186	PHE	CB-CG-CD1	5.90	124.93	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	95	THR	CA-CB-CG2	-5.90	104.14	112.40
1	I	186	PHE	CB-CG-CD1	5.90	124.93	120.80
1	J	95	THR	CA-CB-CG2	-5.90	104.14	112.40
1	L	95	THR	CA-CB-CG2	-5.89	104.16	112.40
1	L	186	PHE	CB-CG-CD1	5.89	124.92	120.80
1	G	145	TYR	CB-CG-CD1	-5.88	117.47	121.00
1	H	95	THR	CA-CB-CG2	-5.88	104.17	112.40
1	A	145	TYR	CB-CG-CD1	-5.88	117.47	121.00
1	J	186	PHE	CB-CG-CD1	5.88	124.91	120.80
1	O	145	TYR	CB-CG-CD1	-5.87	117.48	121.00
1	N	95	THR	CA-CB-CG2	-5.86	104.19	112.40
1	F	95	THR	CA-CB-CG2	-5.86	104.20	112.40
1	N	145	TYR	CB-CG-CD1	-5.86	117.48	121.00
1	C	95	THR	CA-CB-CG2	-5.86	104.20	112.40
1	I	95	THR	CA-CB-CG2	-5.86	104.20	112.40
1	K	95	THR	CA-CB-CG2	-5.86	104.20	112.40
1	O	64	LYS	CB-CG-CD	-5.85	96.38	111.60
1	E	64	LYS	CB-CG-CD	-5.85	96.39	111.60
1	E	145	TYR	CB-CG-CD1	-5.85	117.49	121.00
1	G	64	LYS	CB-CG-CD	-5.85	96.40	111.60
1	K	64	LYS	CB-CG-CD	-5.84	96.41	111.60
1	O	95	THR	CA-CB-CG2	-5.84	104.22	112.40
1	P	64	LYS	CB-CG-CD	-5.84	96.40	111.60
1	L	64	LYS	CB-CG-CD	-5.84	96.41	111.60
1	A	64	LYS	CB-CG-CD	-5.84	96.42	111.60
1	M	64	LYS	CB-CG-CD	-5.84	96.42	111.60
1	J	64	LYS	CB-CG-CD	-5.84	96.42	111.60
1	H	64	LYS	CB-CG-CD	-5.84	96.43	111.60
1	B	64	LYS	CB-CG-CD	-5.83	96.43	111.60
1	C	64	LYS	CB-CG-CD	-5.83	96.43	111.60
1	D	64	LYS	CB-CG-CD	-5.83	96.43	111.60
1	F	64	LYS	CB-CG-CD	-5.83	96.43	111.60
1	N	64	LYS	CB-CG-CD	-5.83	96.44	111.60
1	B	186	PHE	CB-CG-CD1	5.83	124.88	120.80
1	C	186	PHE	CB-CG-CD1	5.83	124.88	120.80
1	I	64	LYS	CB-CG-CD	-5.82	96.47	111.60
1	B	95	THR	CA-CB-CG2	-5.82	104.26	112.40
1	F	186	PHE	CB-CG-CD1	5.82	124.87	120.80
1	M	186	PHE	CB-CG-CD1	5.81	124.87	120.80
1	D	95	THR	CA-CB-CG2	-5.81	104.26	112.40
1	P	95	THR	CA-CB-CG2	-5.81	104.27	112.40
1	A	95	THR	CA-CB-CG2	-5.81	104.27	112.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	145	TYR	CB-CG-CD1	-5.80	117.52	121.00
1	N	186	PHE	CB-CG-CD1	5.80	124.86	120.80
1	F	145	TYR	CB-CG-CD1	-5.79	117.52	121.00
1	A	186	PHE	CB-CG-CD1	5.79	124.86	120.80
1	M	95	THR	CA-CB-CG2	-5.79	104.30	112.40
1	K	145	TYR	CB-CG-CD1	-5.78	117.53	121.00
1	D	186	PHE	CB-CG-CD1	5.77	124.84	120.80
1	P	186	PHE	CB-CG-CD1	5.77	124.84	120.80
1	O	186	PHE	CB-CG-CD1	5.76	124.83	120.80
1	J	145	TYR	CB-CG-CD1	-5.74	117.55	121.00
1	H	145	TYR	CB-CG-CD1	-5.74	117.56	121.00
1	O	66	TYR	CD1-CE1-CZ	5.73	124.96	119.80
1	N	66	TYR	CD1-CE1-CZ	5.73	124.95	119.80
1	P	66	TYR	CD1-CE1-CZ	5.72	124.95	119.80
1	I	145	TYR	CB-CG-CD1	-5.71	117.58	121.00
1	C	66	TYR	CD1-CE1-CZ	5.70	124.93	119.80
1	I	117	LEU	CD1-CG-CD2	-5.69	93.42	110.50
1	N	117	LEU	CD1-CG-CD2	-5.69	93.42	110.50
1	J	117	LEU	CD1-CG-CD2	-5.69	93.43	110.50
1	M	117	LEU	CD1-CG-CD2	-5.69	93.43	110.50
1	B	117	LEU	CD1-CG-CD2	-5.69	93.44	110.50
1	D	117	LEU	CD1-CG-CD2	-5.69	93.44	110.50
1	O	117	LEU	CD1-CG-CD2	-5.69	93.44	110.50
1	B	66	TYR	CD1-CE1-CZ	5.69	124.92	119.80
1	H	117	LEU	CD1-CG-CD2	-5.69	93.44	110.50
1	P	117	LEU	CD1-CG-CD2	-5.69	93.44	110.50
1	A	117	LEU	CD1-CG-CD2	-5.68	93.45	110.50
1	K	117	LEU	CD1-CG-CD2	-5.68	93.44	110.50
1	G	49	TYR	CG-CD2-CE2	-5.68	116.75	121.30
1	G	117	LEU	CD1-CG-CD2	-5.68	93.45	110.50
1	E	117	LEU	CD1-CG-CD2	-5.68	93.46	110.50
1	F	49	TYR	CG-CD2-CE2	-5.68	116.75	121.30
1	C	117	LEU	CD1-CG-CD2	-5.68	93.46	110.50
1	F	117	LEU	CD1-CG-CD2	-5.67	93.48	110.50
1	L	117	LEU	CD1-CG-CD2	-5.67	93.49	110.50
1	A	66	TYR	CD1-CE1-CZ	5.66	124.89	119.80
1	E	261	PHE	CZ-CE2-CD2	5.66	126.89	120.10
1	G	66	TYR	CD1-CE1-CZ	5.66	124.89	119.80
1	L	261	PHE	CZ-CE2-CD2	5.66	126.89	120.10
1	K	49	TYR	CG-CD2-CE2	-5.64	116.78	121.30
1	M	49	TYR	CG-CD2-CE2	-5.64	116.78	121.30
1	M	66	TYR	CD1-CE1-CZ	5.64	124.88	119.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	67	LEU	CB-CG-CD1	5.64	120.59	111.00
1	B	49	TYR	CG-CD2-CE2	-5.64	116.79	121.30
1	O	49	TYR	CG-CD2-CE2	-5.64	116.79	121.30
1	F	261	PHE	CZ-CE2-CD2	5.63	126.86	120.10
1	G	261	PHE	CZ-CE2-CD2	5.63	126.86	120.10
1	A	49	TYR	CG-CD2-CE2	-5.63	116.79	121.30
1	D	66	TYR	CD1-CE1-CZ	5.63	124.87	119.80
1	I	49	TYR	CG-CD2-CE2	-5.63	116.79	121.30
1	J	49	TYR	CG-CD2-CE2	-5.63	116.80	121.30
1	C	49	TYR	CG-CD2-CE2	-5.62	116.80	121.30
1	H	49	TYR	CG-CD2-CE2	-5.62	116.80	121.30
1	N	67	LEU	CB-CG-CD1	5.62	120.56	111.00
1	J	261	PHE	CZ-CE2-CD2	5.62	126.84	120.10
1	J	63	GLY	CA-C-O	-5.62	110.49	120.60
1	E	67	LEU	CB-CG-CD1	5.61	120.54	111.00
1	P	67	LEU	CB-CG-CD1	5.61	120.54	111.00
1	G	67	LEU	CB-CG-CD1	5.61	120.54	111.00
1	K	261	PHE	CZ-CE2-CD2	5.61	126.83	120.10
1	N	261	PHE	CZ-CE2-CD2	5.61	126.83	120.10
1	F	67	LEU	CB-CG-CD1	5.61	120.54	111.00
1	K	63	GLY	CA-C-O	-5.61	110.50	120.60
1	C	67	LEU	CB-CG-CD1	5.61	120.53	111.00
1	G	63	GLY	CA-C-O	-5.61	110.51	120.60
1	I	67	LEU	CB-CG-CD1	5.61	120.53	111.00
1	H	261	PHE	CZ-CE2-CD2	5.60	126.83	120.10
1	L	63	GLY	CA-C-O	-5.60	110.52	120.60
1	F	63	GLY	CA-C-O	-5.60	110.52	120.60
1	F	66	TYR	CD1-CE1-CZ	5.60	124.84	119.80
1	M	67	LEU	CB-CG-CD1	5.60	120.52	111.00
1	E	49	TYR	CG-CD2-CE2	-5.60	116.82	121.30
1	O	67	LEU	CB-CG-CD1	5.60	120.52	111.00
1	A	67	LEU	CB-CG-CD1	5.60	120.51	111.00
1	J	67	LEU	CB-CG-CD1	5.60	120.52	111.00
1	K	67	LEU	CB-CG-CD1	5.60	120.52	111.00
1	L	67	LEU	CB-CG-CD1	5.60	120.52	111.00
1	O	66	TYR	CG-CD1-CE1	-5.60	116.82	121.30
1	M	261	PHE	CZ-CE2-CD2	5.60	126.82	120.10
1	O	63	GLY	CA-C-O	-5.60	110.53	120.60
1	D	261	PHE	CZ-CE2-CD2	5.59	126.81	120.10
1	H	67	LEU	CB-CG-CD1	5.59	120.51	111.00
1	B	63	GLY	N-CA-C	-5.59	99.12	113.10
1	N	63	GLY	N-CA-C	-5.59	99.12	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	49	TYR	CG-CD2-CE2	-5.59	116.83	121.30
1	E	261	PHE	CB-CG-CD2	-5.59	116.89	120.80
1	C	63	GLY	CA-C-O	-5.59	110.54	120.60
1	C	63	GLY	N-CA-C	-5.59	99.14	113.10
1	D	49	TYR	CG-CD2-CE2	-5.59	116.83	121.30
1	B	67	LEU	CB-CG-CD1	5.58	120.49	111.00
1	L	63	GLY	N-CA-C	-5.58	99.14	113.10
1	E	63	GLY	CA-C-O	-5.58	110.56	120.60
1	M	63	GLY	N-CA-C	-5.58	99.15	113.10
1	E	63	GLY	N-CA-C	-5.58	99.15	113.10
1	I	63	GLY	CA-C-O	-5.58	110.56	120.60
1	J	261	PHE	CB-CG-CD2	-5.58	116.90	120.80
1	K	35	ARG	CB-CA-C	5.58	121.56	110.40
1	E	35	ARG	CB-CA-C	5.58	121.55	110.40
1	H	63	GLY	CA-C-O	-5.58	110.56	120.60
1	A	63	GLY	N-CA-C	-5.58	99.16	113.10
1	G	63	GLY	N-CA-C	-5.58	99.16	113.10
1	L	261	PHE	CB-CG-CD2	-5.58	116.90	120.80
1	F	63	GLY	N-CA-C	-5.57	99.16	113.10
1	P	63	GLY	CA-C-O	-5.57	110.57	120.60
1	K	63	GLY	N-CA-C	-5.57	99.17	113.10
1	O	261	PHE	CZ-CE2-CD2	5.57	126.79	120.10
1	J	66	TYR	CD1-CE1-CZ	5.57	124.81	119.80
1	K	66	TYR	CD1-CE1-CZ	5.57	124.81	119.80
1	P	261	PHE	CZ-CE2-CD2	5.57	126.78	120.10
1	D	261	PHE	CB-CG-CD2	-5.57	116.90	120.80
1	G	66	TYR	CG-CD1-CE1	-5.57	116.84	121.30
1	B	234	ALA	N-CA-CB	-5.57	102.31	110.10
1	D	63	GLY	N-CA-C	-5.57	99.18	113.10
1	H	261	PHE	CB-CG-CD2	-5.57	116.90	120.80
1	I	63	GLY	N-CA-C	-5.57	99.18	113.10
1	L	66	TYR	CD1-CE1-CZ	5.57	124.81	119.80
1	I	261	PHE	CB-CG-CD2	-5.57	116.90	120.80
1	I	261	PHE	CZ-CE2-CD2	5.57	126.78	120.10
1	N	66	TYR	CG-CD1-CE1	-5.57	116.85	121.30
1	N	261	PHE	CB-CG-CD2	-5.57	116.91	120.80
1	P	63	GLY	N-CA-C	-5.57	99.19	113.10
1	J	63	GLY	N-CA-C	-5.56	99.19	113.10
1	N	63	GLY	CA-C-O	-5.56	110.58	120.60
1	O	63	GLY	N-CA-C	-5.56	99.19	113.10
1	F	35	ARG	CB-CA-C	5.56	121.53	110.40
1	H	63	GLY	N-CA-C	-5.56	99.20	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	66	TYR	CG-CD1-CE1	-5.56	116.85	121.30
1	C	261	PHE	CZ-CE2-CD2	5.56	126.77	120.10
1	G	35	ARG	CB-CA-C	5.56	121.52	110.40
1	N	49	TYR	CG-CD2-CE2	-5.56	116.85	121.30
1	O	234	ALA	N-CA-CB	-5.56	102.32	110.10
1	D	63	GLY	CA-C-O	-5.56	110.60	120.60
1	H	66	TYR	CD1-CE1-CZ	5.56	124.80	119.80
1	M	66	TYR	CG-CD1-CE1	-5.56	116.85	121.30
1	A	63	GLY	CA-C-O	-5.56	110.60	120.60
1	D	66	TYR	CG-CD1-CE1	-5.55	116.86	121.30
1	L	49	TYR	CG-CD2-CE2	-5.55	116.86	121.30
1	M	35	ARG	CB-CA-C	5.55	121.51	110.40
1	B	261	PHE	CZ-CE2-CD2	5.55	126.76	120.10
1	L	35	ARG	CB-CA-C	5.55	121.50	110.40
1	A	261	PHE	CZ-CE2-CD2	5.55	126.76	120.10
1	E	66	TYR	CD1-CE1-CZ	5.54	124.79	119.80
1	J	35	ARG	CB-CA-C	5.54	121.49	110.40
1	B	63	GLY	CA-C-O	-5.54	110.62	120.60
1	N	234	ALA	N-CA-CB	-5.54	102.34	110.10
1	H	35	ARG	CB-CA-C	5.54	121.48	110.40
1	I	66	TYR	CD1-CE1-CZ	5.54	124.79	119.80
1	B	35	ARG	CB-CA-C	5.54	121.48	110.40
1	B	66	TYR	CG-CD1-CE1	-5.54	116.87	121.30
1	I	35	ARG	CB-CA-C	5.54	121.48	110.40
1	D	35	ARG	CB-CA-C	5.54	121.48	110.40
1	N	35	ARG	CB-CA-C	5.54	121.48	110.40
1	M	63	GLY	CA-C-O	-5.54	110.63	120.60
1	A	261	PHE	CB-CG-CD2	-5.54	116.93	120.80
1	P	35	ARG	CB-CA-C	5.54	121.47	110.40
1	A	35	ARG	CB-CA-C	5.53	121.47	110.40
1	C	35	ARG	CB-CA-C	5.53	121.47	110.40
1	P	234	ALA	N-CA-CB	-5.53	102.35	110.10
1	C	234	ALA	N-CA-CB	-5.53	102.36	110.10
1	O	35	ARG	CB-CA-C	5.53	121.46	110.40
1	A	234	ALA	N-CA-CB	-5.53	102.36	110.10
1	F	66	TYR	CG-CD1-CE1	-5.53	116.88	121.30
1	M	234	ALA	N-CA-CB	-5.53	102.36	110.10
1	M	261	PHE	CB-CG-CD2	-5.53	116.93	120.80
1	L	234	ALA	N-CA-CB	-5.52	102.37	110.10
1	D	234	ALA	N-CA-CB	-5.52	102.37	110.10
1	K	234	ALA	N-CA-CB	-5.52	102.38	110.10
1	E	234	ALA	N-CA-CB	-5.51	102.38	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	261	PHE	CB-CG-CD2	-5.51	116.94	120.80
1	I	234	ALA	N-CA-CB	-5.51	102.39	110.10
1	C	261	PHE	CB-CG-CD2	-5.50	116.95	120.80
1	J	234	ALA	N-CA-CB	-5.50	102.40	110.10
1	A	66	TYR	CG-CD1-CE1	-5.50	116.90	121.30
1	H	234	ALA	N-CA-CB	-5.49	102.41	110.10
1	I	66	TYR	CG-CD1-CE1	-5.49	116.91	121.30
1	P	261	PHE	CB-CG-CD2	-5.49	116.96	120.80
1	F	234	ALA	N-CA-CB	-5.49	102.41	110.10
1	C	66	TYR	CG-CD1-CE1	-5.49	116.91	121.30
1	G	234	ALA	N-CA-CB	-5.49	102.42	110.10
1	F	165	GLU	OE1-CD-OE2	5.48	129.88	123.30
1	K	66	TYR	CG-CD1-CE1	-5.48	116.92	121.30
1	I	165	GLU	OE1-CD-OE2	5.47	129.87	123.30
1	B	261	PHE	CB-CG-CD2	-5.47	116.97	120.80
1	C	165	GLU	OE1-CD-OE2	5.47	129.86	123.30
1	L	66	TYR	CG-CD1-CE1	-5.46	116.93	121.30
1	K	165	GLU	OE1-CD-OE2	5.46	129.85	123.30
1	F	261	PHE	CB-CG-CD2	-5.46	116.98	120.80
1	K	261	PHE	CB-CG-CD2	-5.46	116.98	120.80
1	H	165	GLU	OE1-CD-OE2	5.45	129.84	123.30
1	G	165	GLU	OE1-CD-OE2	5.45	129.84	123.30
1	I	237	ASN	N-CA-CB	5.45	120.40	110.60
1	J	66	TYR	CG-CD1-CE1	-5.45	116.94	121.30
1	A	165	GLU	OE1-CD-OE2	5.44	129.83	123.30
1	B	165	GLU	OE1-CD-OE2	5.44	129.83	123.30
1	A	237	ASN	N-CA-CB	5.44	120.39	110.60
1	H	237	ASN	N-CA-CB	5.44	120.39	110.60
1	K	237	ASN	N-CA-CB	5.43	120.38	110.60
1	O	237	ASN	N-CA-CB	5.43	120.38	110.60
1	N	237	ASN	N-CA-CB	5.43	120.37	110.60
1	H	66	TYR	CG-CD1-CE1	-5.42	116.96	121.30
1	O	261	PHE	CB-CG-CD2	-5.42	117.00	120.80
1	F	237	ASN	N-CA-CB	5.42	120.36	110.60
1	J	165	GLU	OE1-CD-OE2	5.42	129.80	123.30
1	P	237	ASN	N-CA-CB	5.41	120.34	110.60
1	E	66	TYR	CG-CD1-CE1	-5.41	116.97	121.30
1	O	165	GLU	OE1-CD-OE2	5.41	129.79	123.30
1	E	237	ASN	N-CA-CB	5.41	120.33	110.60
1	J	237	ASN	N-CA-CB	5.41	120.33	110.60
1	N	165	GLU	OE1-CD-OE2	5.41	129.79	123.30
1	M	237	ASN	N-CA-CB	5.40	120.33	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	237	ASN	N-CA-CB	5.40	120.32	110.60
1	D	237	ASN	N-CA-CB	5.40	120.32	110.60
1	G	237	ASN	N-CA-CB	5.40	120.32	110.60
1	E	165	GLU	OE1-CD-OE2	5.40	129.78	123.30
1	L	165	GLU	OE1-CD-OE2	5.40	129.78	123.30
1	L	237	ASN	N-CA-CB	5.39	120.31	110.60
1	M	165	GLU	OE1-CD-OE2	5.39	129.77	123.30
1	B	237	ASN	N-CA-CB	5.39	120.30	110.60
1	D	165	GLU	OE1-CD-OE2	5.39	129.77	123.30
1	P	165	GLU	OE1-CD-OE2	5.39	129.76	123.30
1	B	35	ARG	NE-CZ-NH1	-5.36	117.62	120.30
1	J	35	ARG	O-C-N	-5.36	114.13	122.70
1	E	35	ARG	O-C-N	-5.35	114.14	122.70
1	G	35	ARG	O-C-N	-5.35	114.14	122.70
1	H	35	ARG	O-C-N	-5.34	114.15	122.70
1	O	35	ARG	O-C-N	-5.34	114.16	122.70
1	A	35	ARG	O-C-N	-5.34	114.16	122.70
1	M	35	ARG	O-C-N	-5.34	114.16	122.70
1	I	35	ARG	O-C-N	-5.34	114.16	122.70
1	M	35	ARG	NE-CZ-NH1	-5.33	117.64	120.30
1	P	35	ARG	O-C-N	-5.33	114.17	122.70
1	F	35	ARG	O-C-N	-5.32	114.18	122.70
1	D	35	ARG	O-C-N	-5.32	114.19	122.70
1	L	35	ARG	O-C-N	-5.32	114.20	122.70
1	B	35	ARG	O-C-N	-5.31	114.20	122.70
1	N	35	ARG	O-C-N	-5.31	114.20	122.70
1	K	35	ARG	O-C-N	-5.31	114.20	122.70
1	C	35	ARG	O-C-N	-5.31	114.20	122.70
1	M	43	TYR	CG-CD2-CE2	-5.29	117.06	121.30
1	P	35	ARG	NE-CZ-NH1	-5.29	117.66	120.30
1	D	35	ARG	NE-CZ-NH1	-5.28	117.66	120.30
1	E	289	THR	CA-CB-CG2	-5.27	105.02	112.40
1	J	35	ARG	NE-CZ-NH1	-5.26	117.67	120.30
1	J	289	THR	CA-CB-CG2	-5.26	105.04	112.40
1	L	289	THR	CA-CB-CG2	-5.25	105.04	112.40
1	F	289	THR	CA-CB-CG2	-5.25	105.05	112.40
1	P	43	TYR	CG-CD2-CE2	-5.25	117.10	121.30
1	B	289	THR	CA-CB-CG2	-5.24	105.06	112.40
1	I	289	THR	CA-CB-CG2	-5.24	105.06	112.40
1	N	35	ARG	NE-CZ-NH1	-5.24	117.68	120.30
1	A	35	ARG	NE-CZ-NH1	-5.24	117.68	120.30
1	C	289	THR	CA-CB-CG2	-5.24	105.06	112.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	289	THR	CA-CB-CG2	-5.24	105.06	112.40
1	L	43	TYR	CG-CD2-CE2	-5.24	117.11	121.30
1	K	289	THR	CA-CB-CG2	-5.24	105.07	112.40
1	A	43	TYR	CG-CD2-CE2	-5.23	117.11	121.30
1	A	289	THR	CA-CB-CG2	-5.23	105.07	112.40
1	O	43	TYR	CG-CD2-CE2	-5.23	117.11	121.30
1	F	43	TYR	CG-CD2-CE2	-5.23	117.11	121.30
1	M	289	THR	CA-CB-CG2	-5.23	105.08	112.40
1	N	289	THR	CA-CB-CG2	-5.23	105.08	112.40
1	D	43	TYR	CG-CD2-CE2	-5.22	117.12	121.30
1	G	289	THR	CA-CB-CG2	-5.22	105.09	112.40
1	H	289	THR	CA-CB-CG2	-5.22	105.08	112.40
1	O	289	THR	CA-CB-CG2	-5.22	105.09	112.40
1	E	43	TYR	CG-CD2-CE2	-5.22	117.12	121.30
1	D	289	THR	CA-CB-CG2	-5.21	105.10	112.40
1	G	35	ARG	NE-CZ-NH1	-5.21	117.69	120.30
1	K	43	TYR	CG-CD2-CE2	-5.21	117.13	121.30
1	C	43	TYR	CG-CD2-CE2	-5.20	117.14	121.30
1	K	67	LEU	CB-CA-C	5.20	120.08	110.20
1	B	43	TYR	CG-CD2-CE2	-5.20	117.14	121.30
1	G	231	ALA	N-CA-CB	5.20	117.37	110.10
1	C	35	ARG	NE-CZ-NH1	-5.19	117.70	120.30
1	I	35	ARG	NE-CZ-NH1	-5.19	117.70	120.30
1	M	231	ALA	N-CA-CB	5.19	117.37	110.10
1	N	43	TYR	CG-CD2-CE2	-5.19	117.14	121.30
1	E	67	LEU	CB-CA-C	5.19	120.06	110.20
1	J	231	ALA	N-CA-CB	5.19	117.37	110.10
1	D	231	ALA	N-CA-CB	5.19	117.37	110.10
1	G	67	LEU	CB-CA-C	5.19	120.06	110.20
1	H	43	TYR	CG-CD2-CE2	-5.19	117.15	121.30
1	G	251	SER	N-CA-C	5.19	125.00	111.00
1	H	35	ARG	NE-CZ-NH1	-5.18	117.71	120.30
1	I	67	LEU	CB-CA-C	5.18	120.05	110.20
1	J	67	LEU	CB-CA-C	5.18	120.04	110.20
1	L	231	ALA	N-CA-CB	5.18	117.35	110.10
1	G	43	TYR	CG-CD2-CE2	-5.17	117.16	121.30
1	D	67	LEU	CB-CA-C	5.17	120.03	110.20
1	E	231	ALA	N-CA-CB	5.17	117.34	110.10
1	L	67	LEU	CB-CA-C	5.17	120.03	110.20
1	F	67	LEU	CB-CA-C	5.17	120.02	110.20
1	F	231	ALA	N-CA-CB	5.17	117.34	110.10
1	B	151	ASP	CB-CG-OD1	-5.17	113.65	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	231	ALA	N-CA-CB	5.16	117.33	110.10
1	H	251	SER	N-CA-C	5.16	124.94	111.00
1	B	231	ALA	N-CA-CB	5.16	117.32	110.10
1	I	231	ALA	N-CA-CB	5.16	117.32	110.10
1	M	67	LEU	CB-CA-C	5.16	120.00	110.20
1	E	251	SER	N-CA-C	5.16	124.92	111.00
1	I	251	SER	N-CA-C	5.16	124.92	111.00
1	A	251	SER	N-CA-C	5.16	124.92	111.00
1	J	251	SER	N-CA-C	5.16	124.92	111.00
1	L	251	SER	N-CA-C	5.16	124.92	111.00
1	N	67	LEU	CB-CA-C	5.16	120.00	110.20
1	N	231	ALA	N-CA-CB	5.16	117.32	110.10
1	F	251	SER	N-CA-C	5.15	124.91	111.00
1	H	67	LEU	CB-CA-C	5.15	119.99	110.20
1	K	35	ARG	NE-CZ-NH1	-5.15	117.72	120.30
1	P	67	LEU	CB-CA-C	5.15	119.99	110.20
1	M	251	SER	N-CA-C	5.15	124.91	111.00
1	O	251	SER	N-CA-C	5.15	124.91	111.00
1	P	251	SER	N-CA-C	5.15	124.91	111.00
1	D	251	SER	N-CA-C	5.15	124.90	111.00
1	A	151	ASP	CB-CG-OD1	-5.15	113.67	118.30
1	H	231	ALA	N-CA-CB	5.14	117.30	110.10
1	O	231	ALA	N-CA-CB	5.14	117.30	110.10
1	P	231	ALA	N-CA-CB	5.14	117.30	110.10
1	A	67	LEU	CB-CA-C	5.14	119.96	110.20
1	B	67	LEU	CB-CA-C	5.14	119.96	110.20
1	A	231	ALA	N-CA-CB	5.13	117.29	110.10
1	K	251	SER	N-CA-C	5.13	124.86	111.00
1	B	251	SER	N-CA-C	5.13	124.86	111.00
1	C	251	SER	N-CA-C	5.13	124.86	111.00
1	N	251	SER	N-CA-C	5.13	124.85	111.00
1	P	43	TYR	CB-CG-CD1	5.13	124.08	121.00
1	M	151	ASP	CB-CG-OD1	-5.13	113.68	118.30
1	L	35	ARG	NE-CZ-NH1	-5.13	117.74	120.30
1	N	326	TYR	CE1-CZ-CE2	-5.12	111.60	119.80
1	H	151	ASP	CB-CG-OD1	-5.12	113.69	118.30
1	J	43	TYR	CG-CD2-CE2	-5.12	117.20	121.30
1	C	67	LEU	CB-CA-C	5.12	119.93	110.20
1	K	231	ALA	N-CA-CB	5.12	117.27	110.10
1	D	326	TYR	CE1-CZ-CE2	-5.12	111.61	119.80
1	A	326	TYR	CE1-CZ-CE2	-5.12	111.62	119.80
1	O	151	ASP	CB-CG-OD1	-5.12	113.69	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	67	LEU	CB-CA-C	5.11	119.92	110.20
1	B	43	TYR	CB-CG-CD1	5.11	124.07	121.00
1	B	326	TYR	CE1-CZ-CE2	-5.11	111.62	119.80
1	F	35	ARG	NE-CZ-NH1	-5.11	117.75	120.30
1	F	151	ASP	CB-CG-OD1	-5.11	113.70	118.30
1	I	43	TYR	CG-CD2-CE2	-5.11	117.22	121.30
1	J	151	ASP	CB-CG-OD1	-5.11	113.70	118.30
1	P	326	TYR	CE1-CZ-CE2	-5.11	111.63	119.80
1	M	326	TYR	CE1-CZ-CE2	-5.10	111.64	119.80
1	O	43	TYR	CB-CG-CD1	5.10	124.06	121.00
1	E	151	ASP	CB-CG-OD1	-5.10	113.71	118.30
1	J	326	TYR	CE1-CZ-CE2	-5.10	111.65	119.80
1	K	151	ASP	CB-CG-OD1	-5.09	113.71	118.30
1	K	326	TYR	CE1-CZ-CE2	-5.09	111.65	119.80
1	H	326	TYR	CE1-CZ-CE2	-5.09	111.65	119.80
1	K	43	TYR	CB-CG-CD1	5.09	124.06	121.00
1	O	35	ARG	NE-CZ-NH1	-5.09	117.75	120.30
1	D	151	ASP	CB-CG-OD1	-5.09	113.72	118.30
1	O	326	TYR	CE1-CZ-CE2	-5.08	111.67	119.80
1	F	326	TYR	CE1-CZ-CE2	-5.08	111.67	119.80
1	E	326	TYR	CE1-CZ-CE2	-5.08	111.67	119.80
1	I	151	ASP	CB-CG-OD1	-5.08	113.73	118.30
1	L	151	ASP	CB-CG-OD1	-5.08	113.73	118.30
1	C	326	TYR	CE1-CZ-CE2	-5.08	111.67	119.80
1	C	151	ASP	CB-CG-OD1	-5.08	113.73	118.30
1	G	151	ASP	CB-CG-OD1	-5.07	113.74	118.30
1	G	326	TYR	CE1-CZ-CE2	-5.07	111.69	119.80
1	L	326	TYR	CE1-CZ-CE2	-5.06	111.70	119.80
1	N	43	TYR	CB-CG-CD1	5.06	124.04	121.00
1	F	43	TYR	CB-CG-CD1	5.06	124.03	121.00
1	M	43	TYR	CB-CG-CD1	5.05	124.03	121.00
1	I	326	TYR	CE1-CZ-CE2	-5.05	111.72	119.80
1	A	43	TYR	CB-CG-CD1	5.04	124.03	121.00
1	P	151	ASP	CB-CG-OD1	-5.04	113.76	118.30
1	N	151	ASP	CB-CG-OD1	-5.04	113.76	118.30
1	N	233	SER	CA-CB-OG	5.04	124.81	111.20
1	B	233	SER	CA-CB-OG	5.04	124.80	111.20
1	I	43	TYR	CB-CG-CD1	5.04	124.02	121.00
1	A	233	SER	CA-CB-OG	5.03	124.79	111.20
1	E	35	ARG	NE-CZ-NH1	-5.03	117.78	120.30
1	P	233	SER	CA-CB-OG	5.03	124.77	111.20
1	D	233	SER	CA-CB-OG	5.03	124.77	111.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	43	TYR	CB-CG-CD1	5.02	124.02	121.00
1	C	43	TYR	CB-CG-CD1	5.02	124.01	121.00
1	H	43	TYR	CB-CG-CD1	5.02	124.01	121.00
1	C	233	SER	CA-CB-OG	5.02	124.75	111.20
1	O	233	SER	CA-CB-OG	5.02	124.75	111.20
1	L	43	TYR	CB-CG-CD1	5.01	124.00	121.00
1	M	233	SER	CA-CB-OG	5.01	124.73	111.20
1	K	233	SER	CA-CB-OG	5.00	124.71	111.20
1	H	233	SER	CA-CB-OG	5.00	124.71	111.20

All (16) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	A	34	LYS	CA
1	B	34	LYS	CA
1	C	34	LYS	CA
1	D	34	LYS	CA
1	E	34	LYS	CA
1	F	34	LYS	CA
1	G	34	LYS	CA
1	H	34	LYS	CA
1	I	34	LYS	CA
1	J	34	LYS	CA
1	K	34	LYS	CA
1	L	34	LYS	CA
1	M	34	LYS	CA
1	N	34	LYS	CA
1	O	34	LYS	CA
1	P	34	LYS	CA

All (272) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	100	SER	Peptide
1	A	142	ASP	Peptide,Mainchain
1	A	145	TYR	Sidechain
1	A	147	PHE	Sidechain
1	A	168	ASN	Peptide
1	A	220	LEU	Mainchain
1	A	319	TYR	Sidechain
1	A	326	TYR	Sidechain
1	A	33	ILE	Mainchain

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Group</b>
1	A	34	LYS	Mainchain
1	A	35	ARG	Mainchain
1	A	43	TYR	Sidechain
1	A	54	GLY	Peptide
1	A	74	GLU	Sidechain
1	A	83	ASN	Peptide
1	A	91	TYR	Mainchain
1	B	100	SER	Peptide
1	B	142	ASP	Peptide,Mainchain
1	B	145	TYR	Sidechain
1	B	147	PHE	Sidechain
1	B	168	ASN	Peptide
1	B	220	LEU	Mainchain
1	B	319	TYR	Sidechain
1	B	326	TYR	Sidechain
1	B	33	ILE	Mainchain
1	B	34	LYS	Mainchain
1	B	35	ARG	Mainchain
1	B	43	TYR	Sidechain
1	B	54	GLY	Peptide
1	B	74	GLU	Sidechain
1	B	83	ASN	Peptide
1	B	91	TYR	Mainchain
1	C	100	SER	Peptide
1	C	142	ASP	Peptide,Mainchain
1	C	145	TYR	Sidechain
1	C	147	PHE	Sidechain
1	C	168	ASN	Peptide
1	C	220	LEU	Mainchain
1	C	319	TYR	Sidechain
1	C	326	TYR	Sidechain
1	C	33	ILE	Mainchain
1	C	34	LYS	Mainchain
1	C	35	ARG	Mainchain
1	C	43	TYR	Sidechain
1	C	54	GLY	Peptide
1	C	74	GLU	Sidechain
1	C	83	ASN	Peptide
1	C	91	TYR	Mainchain
1	D	100	SER	Peptide
1	D	142	ASP	Peptide,Mainchain
1	D	145	TYR	Sidechain

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Group</b>
1	D	147	PHE	Sidechain
1	D	168	ASN	Peptide
1	D	220	LEU	Mainchain
1	D	319	TYR	Sidechain
1	D	326	TYR	Sidechain
1	D	33	ILE	Mainchain
1	D	34	LYS	Mainchain
1	D	35	ARG	Mainchain
1	D	43	TYR	Sidechain
1	D	54	GLY	Peptide
1	D	74	GLU	Sidechain
1	D	83	ASN	Peptide
1	D	91	TYR	Mainchain
1	E	100	SER	Peptide
1	E	142	ASP	Peptide,Mainchain
1	E	145	TYR	Sidechain
1	E	147	PHE	Sidechain
1	E	168	ASN	Peptide
1	E	220	LEU	Mainchain
1	E	319	TYR	Sidechain
1	E	326	TYR	Sidechain
1	E	33	ILE	Mainchain
1	E	34	LYS	Mainchain
1	E	35	ARG	Mainchain
1	E	43	TYR	Sidechain
1	E	54	GLY	Peptide
1	E	74	GLU	Sidechain
1	E	83	ASN	Peptide
1	E	91	TYR	Mainchain
1	F	100	SER	Peptide
1	F	142	ASP	Peptide,Mainchain
1	F	145	TYR	Sidechain
1	F	147	PHE	Sidechain
1	F	168	ASN	Peptide
1	F	220	LEU	Mainchain
1	F	319	TYR	Sidechain
1	F	326	TYR	Sidechain
1	F	33	ILE	Mainchain
1	F	34	LYS	Mainchain
1	F	35	ARG	Mainchain
1	F	43	TYR	Sidechain
1	F	54	GLY	Peptide

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Group</b>
1	F	74	GLU	Sidechain
1	F	83	ASN	Peptide
1	F	91	TYR	Mainchain
1	G	100	SER	Peptide
1	G	142	ASP	Peptide,Mainchain
1	G	145	TYR	Sidechain
1	G	147	PHE	Sidechain
1	G	168	ASN	Peptide
1	G	220	LEU	Mainchain
1	G	319	TYR	Sidechain
1	G	326	TYR	Sidechain
1	G	33	ILE	Mainchain
1	G	34	LYS	Mainchain
1	G	35	ARG	Mainchain
1	G	43	TYR	Sidechain
1	G	54	GLY	Peptide
1	G	74	GLU	Sidechain
1	G	83	ASN	Peptide
1	G	91	TYR	Mainchain
1	H	100	SER	Peptide
1	H	142	ASP	Peptide,Mainchain
1	H	145	TYR	Sidechain
1	H	147	PHE	Sidechain
1	H	168	ASN	Peptide
1	H	220	LEU	Mainchain
1	H	319	TYR	Sidechain
1	H	326	TYR	Sidechain
1	H	33	ILE	Mainchain
1	H	34	LYS	Mainchain
1	H	35	ARG	Mainchain
1	H	43	TYR	Sidechain
1	H	54	GLY	Peptide
1	H	74	GLU	Sidechain
1	H	83	ASN	Peptide
1	H	91	TYR	Mainchain
1	I	100	SER	Peptide
1	I	142	ASP	Peptide,Mainchain
1	I	145	TYR	Sidechain
1	I	147	PHE	Sidechain
1	I	168	ASN	Peptide
1	I	220	LEU	Mainchain
1	I	319	TYR	Sidechain

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Group</b>
1	I	326	TYR	Sidechain
1	I	33	ILE	Mainchain
1	I	34	LYS	Mainchain
1	I	35	ARG	Mainchain
1	I	43	TYR	Sidechain
1	I	54	GLY	Peptide
1	I	74	GLU	Sidechain
1	I	83	ASN	Peptide
1	I	91	TYR	Mainchain
1	J	100	SER	Peptide
1	J	142	ASP	Peptide,Mainchain
1	J	145	TYR	Sidechain
1	J	147	PHE	Sidechain
1	J	168	ASN	Peptide
1	J	220	LEU	Mainchain
1	J	319	TYR	Sidechain
1	J	326	TYR	Sidechain
1	J	33	ILE	Mainchain
1	J	34	LYS	Mainchain
1	J	35	ARG	Mainchain
1	J	43	TYR	Sidechain
1	J	54	GLY	Peptide
1	J	74	GLU	Sidechain
1	J	83	ASN	Peptide
1	J	91	TYR	Mainchain
1	K	100	SER	Peptide
1	K	142	ASP	Peptide,Mainchain
1	K	145	TYR	Sidechain
1	K	147	PHE	Sidechain
1	K	168	ASN	Peptide
1	K	220	LEU	Mainchain
1	K	319	TYR	Sidechain
1	K	326	TYR	Sidechain
1	K	33	ILE	Mainchain
1	K	34	LYS	Mainchain
1	K	35	ARG	Mainchain
1	K	43	TYR	Sidechain
1	K	54	GLY	Peptide
1	K	74	GLU	Sidechain
1	K	83	ASN	Peptide
1	K	91	TYR	Mainchain
1	L	100	SER	Peptide

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Group</b>
1	L	142	ASP	Peptide,Mainchain
1	L	145	TYR	Sidechain
1	L	147	PHE	Sidechain
1	L	168	ASN	Peptide
1	L	220	LEU	Mainchain
1	L	319	TYR	Sidechain
1	L	326	TYR	Sidechain
1	L	33	ILE	Mainchain
1	L	34	LYS	Mainchain
1	L	35	ARG	Mainchain
1	L	43	TYR	Sidechain
1	L	54	GLY	Peptide
1	L	74	GLU	Sidechain
1	L	83	ASN	Peptide
1	L	91	TYR	Mainchain
1	M	100	SER	Peptide
1	M	142	ASP	Peptide,Mainchain
1	M	145	TYR	Sidechain
1	M	147	PHE	Sidechain
1	M	168	ASN	Peptide
1	M	220	LEU	Mainchain
1	M	319	TYR	Sidechain
1	M	326	TYR	Sidechain
1	M	33	ILE	Mainchain
1	M	34	LYS	Mainchain
1	M	35	ARG	Mainchain
1	M	43	TYR	Sidechain
1	M	54	GLY	Peptide
1	M	74	GLU	Sidechain
1	M	83	ASN	Peptide
1	M	91	TYR	Mainchain
1	N	100	SER	Peptide
1	N	142	ASP	Peptide,Mainchain
1	N	145	TYR	Sidechain
1	N	147	PHE	Sidechain
1	N	168	ASN	Peptide
1	N	220	LEU	Mainchain
1	N	319	TYR	Sidechain
1	N	326	TYR	Sidechain
1	N	33	ILE	Mainchain
1	N	34	LYS	Mainchain
1	N	35	ARG	Mainchain

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Mol	Chain	Res	Type	Group
1	N	43	TYR	Sidechain
1	N	54	GLY	Peptide
1	N	74	GLU	Sidechain
1	N	83	ASN	Peptide
1	N	91	TYR	Mainchain
1	O	100	SER	Peptide
1	O	142	ASP	Peptide,Mainchain
1	O	145	TYR	Sidechain
1	O	147	PHE	Sidechain
1	O	168	ASN	Peptide
1	O	220	LEU	Mainchain
1	O	319	TYR	Sidechain
1	O	326	TYR	Sidechain
1	O	33	ILE	Mainchain
1	O	34	LYS	Mainchain
1	O	35	ARG	Mainchain
1	O	43	TYR	Sidechain
1	O	54	GLY	Peptide
1	O	74	GLU	Sidechain
1	O	83	ASN	Peptide
1	O	91	TYR	Mainchain
1	P	100	SER	Peptide
1	P	142	ASP	Peptide,Mainchain
1	P	145	TYR	Sidechain
1	P	147	PHE	Sidechain
1	P	168	ASN	Peptide
1	P	220	LEU	Mainchain
1	P	319	TYR	Sidechain
1	P	326	TYR	Sidechain
1	P	33	ILE	Mainchain
1	P	34	LYS	Mainchain
1	P	35	ARG	Mainchain
1	P	43	TYR	Sidechain
1	P	54	GLY	Peptide
1	P	74	GLU	Sidechain
1	P	83	ASN	Peptide
1	P	91	TYR	Mainchain

## 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	2547	0	2571	895	0
1	B	2547	0	2566	1086	0
1	C	2547	0	2566	1091	0
1	D	2547	0	2573	795	0
1	E	2547	0	2569	813	0
1	F	2547	0	2556	1325	0
1	G	2547	0	2554	1296	0
1	H	2547	0	2564	1122	0
1	I	2547	0	2563	1066	0
1	J	2547	0	2553	1244	0
1	K	2547	0	2554	1273	0
1	L	2547	0	2569	822	0
1	M	2547	0	2573	807	0
1	N	2547	0	2563	1042	0
1	O	2547	0	2565	1048	0
1	P	2547	0	2572	902	0
All	All	40752	0	41031	12900	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 158.

All (12900) 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:C:225:LEU:HD22	1:D:300:TYR:CE2	1.35	1.62
1:B:46:GLU:HB2	1:C:324:ALA:CB	1.30	1.61
1:O:300:TYR:CA	1:P:227:THR:HG23	1.19	1.61
1:A:46:GLU:HB2	1:B:324:ALA:CB	1.30	1.61
1:C:46:GLU:HB2	1:D:324:ALA:CB	1.30	1.61
1:M:300:TYR:CE2	1:N:225:LEU:HD22	1.35	1.61
1:J:277:ASP:CB	1:K:219:ASP:HA	1.16	1.60
1:B:225:LEU:HD22	1:C:300:TYR:CE2	1.34	1.60
1:E:219:ASP:CA	1:F:277:ASP:HB3	1.13	1.60
1:I:277:ASP:CB	1:J:219:ASP:HA	1.16	1.60
1:N:300:TYR:CA	1:O:227:THR:HG23	1.19	1.60
1:F:219:ASP:CA	1:G:277:ASP:HB3	1.13	1.60
1:N:300:TYR:CE2	1:O:225:LEU:HD22	1.34	1.60
1:E:219:ASP:HA	1:F:277:ASP:CB	1.16	1.60
1:I:277:ASP:HB3	1:J:219:ASP:CA	1.13	1.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:240:MET:CE	1:F:73:VAL:CG2	1.75	1.59
1:M:300:TYR:CA	1:N:227:THR:HG23	1.19	1.59
1:O:324:ALA:CB	1:P:46:GLU:HB2	1.30	1.59
1:G:219:ASP:HA	1:H:277:ASP:CB	1.16	1.58
1:O:324:ALA:CB	1:P:46:GLU:CB	1.81	1.58
1:N:324:ALA:CB	1:O:46:GLU:HB2	1.30	1.58
1:N:324:ALA:CB	1:O:46:GLU:CB	1.81	1.58
1:K:277:ASP:CB	1:L:219:ASP:HA	1.16	1.58
1:A:225:LEU:HD22	1:B:300:TYR:CE2	1.34	1.57
1:M:324:ALA:CB	1:N:46:GLU:HB2	1.30	1.57
1:G:219:ASP:CA	1:H:277:ASP:HB3	1.13	1.57
1:J:323:VAL:CG1	1:K:50:ILE:CG2	1.79	1.57
1:F:203:GLU:HG3	1:I:198:GLU:CG	1.30	1.57
1:O:300:TYR:CE2	1:P:225:LEU:HD22	1.34	1.57
1:K:277:ASP:HB3	1:L:219:ASP:CA	1.13	1.57
1:C:227:THR:HG23	1:D:300:TYR:CA	1.19	1.57
1:J:277:ASP:HB3	1:K:219:ASP:CA	1.13	1.56
1:B:227:THR:HG23	1:C:300:TYR:CA	1.19	1.56
1:F:50:ILE:CG2	1:G:323:VAL:CG1	1.79	1.56
1:F:219:ASP:HA	1:G:277:ASP:CB	1.16	1.55
1:J:73:VAL:HG21	1:N:240:MET:CE	1.34	1.55
1:A:46:GLU:CB	1:B:324:ALA:CB	1.81	1.55
1:A:227:THR:HG23	1:B:300:TYR:CA	1.19	1.55
1:B:247:ASP:C	1:F:52:ILE:HD12	1.22	1.55
1:M:324:ALA:CB	1:N:46:GLU:CB	1.81	1.55
1:C:246:ILE:CD1	1:H:320:LYS:HA	1.26	1.54
1:G:50:ILE:CG2	1:H:323:VAL:CG1	1.79	1.54
1:J:73:VAL:CG2	1:N:240:MET:CE	1.82	1.53
1:K:323:VAL:CG1	1:L:50:ILE:CG2	1.79	1.53
1:E:50:ILE:CG2	1:F:323:VAL:CG1	1.79	1.53
1:N:324:ALA:HB2	1:O:46:GLU:CA	1.09	1.52
1:I:323:VAL:CG1	1:J:50:ILE:CG2	1.79	1.52
1:B:46:GLU:CB	1:C:324:ALA:CB	1.81	1.52
1:F:274:PHE:CE1	1:I:204:HIS:CD2	1.95	1.52
1:I:323:VAL:CG1	1:J:50:ILE:HG22	1.37	1.52
1:C:46:GLU:CB	1:D:324:ALA:CB	1.81	1.51
1:H:198:GLU:CG	1:K:203:GLU:HG3	1.32	1.51
1:H:204:HIS:CD2	1:K:274:PHE:CE1	1.98	1.50
1:C:246:ILE:CD1	1:G:50:ILE:HG23	1.41	1.50
1:G:198:GLU:CG	1:J:203:GLU:HG3	1.37	1.50
1:G:272:ARG:HG3	1:J:203:GLU:N	1.26	1.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:240:MET:C	1:H:166:GLN:HG2	1.24	1.49
1:B:46:GLU:CA	1:C:324:ALA:HB2	1.09	1.49
1:F:272:ARG:HG3	1:I:203:GLU:N	1.25	1.49
1:G:203:GLU:HG3	1:J:198:GLU:CG	1.38	1.49
1:H:204:HIS:NE2	1:K:274:PHE:CD1	1.80	1.49
1:A:46:GLU:CA	1:B:324:ALA:HB2	1.09	1.49
1:F:198:GLU:CG	1:I:203:GLU:HG3	1.40	1.49
1:O:324:ALA:HB2	1:P:46:GLU:CA	1.09	1.49
1:C:79:THR:CG2	1:D:192:CYS:HB3	1.44	1.48
1:O:192:CYS:HB3	1:P:79:THR:CG2	1.44	1.48
1:G:274:PHE:HE1	1:J:204:HIS:CD2	1.31	1.48
1:N:192:CYS:HB3	1:O:79:THR:CG2	1.43	1.48
1:B:79:THR:CG2	1:C:192:CYS:HB3	1.44	1.48
1:C:46:GLU:CA	1:D:324:ALA:HB2	1.09	1.48
1:L:50:ILE:HG23	1:P:246:ILE:CD1	1.33	1.47
1:M:192:CYS:HB3	1:N:79:THR:CG2	1.44	1.47
1:A:79:THR:CG2	1:B:192:CYS:HB3	1.44	1.47
1:F:274:PHE:CD1	1:I:204:HIS:NE2	1.78	1.47
1:G:204:HIS:CD2	1:J:274:PHE:HE1	1.31	1.47
1:C:246:ILE:HD13	1:G:50:ILE:CG2	1.14	1.47
1:F:203:GLU:N	1:I:272:ARG:HG3	1.25	1.47
1:C:246:ILE:CD1	1:G:50:ILE:N	1.75	1.47
1:F:71:GLN:NE2	1:G:168:ASN:CB	1.76	1.47
1:G:71:GLN:NE2	1:H:168:ASN:HB3	1.19	1.46
1:H:204:HIS:NE2	1:K:274:PHE:CE1	1.80	1.46
1:H:204:HIS:CD2	1:K:274:PHE:HE1	1.27	1.46
1:H:203:GLU:N	1:K:272:ARG:HG3	1.28	1.46
1:J:168:ASN:CB	1:K:71:GLN:NE2	1.76	1.46
1:F:71:GLN:NE2	1:G:168:ASN:HB3	1.19	1.45
1:L:52:ILE:HD12	1:P:247:ASP:C	1.16	1.45
1:M:320:LYS:CE	1:N:50:ILE:HG12	0.99	1.45
1:G:274:PHE:CE1	1:J:204:HIS:CD2	2.05	1.45
1:E:71:GLN:NE2	1:F:168:ASN:CB	1.76	1.45
1:N:320:LYS:CE	1:O:50:ILE:HG12	0.99	1.45
1:H:272:ARG:HG3	1:K:203:GLU:N	1.27	1.45
1:I:168:ASN:HB3	1:J:71:GLN:NE2	1.19	1.45
1:K:52:ILE:HD12	1:O:247:ASP:C	1.16	1.45
1:B:50:ILE:N	1:C:320:LYS:HG2	1.19	1.45
1:C:50:ILE:HG12	1:D:320:LYS:CE	0.99	1.45
1:E:71:GLN:NE2	1:F:168:ASN:HB3	1.19	1.45
1:G:204:HIS:CD2	1:J:274:PHE:CE1	2.05	1.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:49:TYR:CE1	1:G:320:LYS:HB3	1.52	1.44
1:G:224:ASN:ND2	1:H:275:LYS:HZ2	1.10	1.44
1:J:168:ASN:HB3	1:K:71:GLN:NE2	1.19	1.44
1:K:320:LYS:HB3	1:L:49:TYR:CE1	1.52	1.44
1:O:300:TYR:N	1:P:227:THR:CG2	1.81	1.44
1:O:320:LYS:CE	1:P:50:ILE:HG12	0.99	1.44
1:I:168:ASN:CB	1:J:71:GLN:NE2	1.76	1.44
1:N:300:TYR:N	1:O:227:THR:CG2	1.81	1.44
1:G:71:GLN:NE2	1:H:168:ASN:CB	1.76	1.44
1:K:168:ASN:HB3	1:L:71:GLN:NE2	1.19	1.44
1:M:300:TYR:N	1:N:227:THR:CG2	1.81	1.44
1:O:320:LYS:HG2	1:P:50:ILE:N	1.19	1.44
1:A:50:ILE:HG12	1:B:320:LYS:CE	0.99	1.44
1:F:274:PHE:CE1	1:I:204:HIS:NE2	1.80	1.44
1:B:50:ILE:HG12	1:C:320:LYS:CE	0.99	1.44
1:M:320:LYS:HG2	1:N:50:ILE:N	1.19	1.44
1:M:324:ALA:HB2	1:N:46:GLU:CA	1.09	1.44
1:C:227:THR:CG2	1:D:300:TYR:N	1.81	1.43
1:J:320:LYS:HB3	1:K:49:TYR:CE1	1.52	1.43
1:F:224:ASN:ND2	1:G:275:LYS:HZ2	1.13	1.43
1:F:274:PHE:HE1	1:I:204:HIS:CD2	1.25	1.43
1:H:203:GLU:HG3	1:K:198:GLU:CG	1.43	1.43
1:I:275:LYS:HZ2	1:J:224:ASN:ND2	1.13	1.43
1:I:300:TYR:CE2	1:J:225:LEU:HD13	1.53	1.43
1:I:320:LYS:HB3	1:J:49:TYR:CE1	1.52	1.43
1:G:225:LEU:HD13	1:H:300:TYR:CE2	1.53	1.43
1:K:50:ILE:HG23	1:O:246:ILE:CD1	1.29	1.43
1:K:168:ASN:CB	1:L:71:GLN:NE2	1.76	1.43
1:K:275:LYS:HZ2	1:L:224:ASN:ND2	1.11	1.43
1:M:320:LYS:HE2	1:N:50:ILE:CG1	0.98	1.43
1:B:227:THR:CG2	1:C:300:TYR:N	1.81	1.43
1:E:49:TYR:CE1	1:F:320:LYS:HB3	1.52	1.43
1:N:320:LYS:HE2	1:O:50:ILE:CG1	0.98	1.43
1:A:227:THR:CG2	1:B:300:TYR:N	1.81	1.42
1:B:246:ILE:CD1	1:F:50:ILE:HG23	1.33	1.42
1:E:218:THR:HB	1:F:278:GLN:CD	1.38	1.42
1:J:300:TYR:CE2	1:K:225:LEU:HD13	1.52	1.42
1:B:245:GLU:HB3	1:F:75:ASP:CA	1.48	1.42
1:F:225:LEU:HD13	1:G:300:TYR:CE2	1.52	1.42
1:L:52:ILE:CD1	1:P:247:ASP:C	1.87	1.42
1:C:232:GLU:N	1:H:308:ASN:ND2	1.60	1.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:204:HIS:CD2	1:I:274:PHE:HE1	1.38	1.42
1:F:218:THR:HB	1:G:278:GLN:CD	1.38	1.42
1:K:278:GLN:CD	1:L:218:THR:HB	1.38	1.42
1:O:320:LYS:HE2	1:P:50:ILE:CG1	0.97	1.42
1:A:50:ILE:CG1	1:B:320:LYS:HE2	0.98	1.42
1:E:224:ASN:ND2	1:F:275:LYS:HZ2	1.13	1.42
1:G:274:PHE:CD1	1:J:204:HIS:NE2	1.82	1.42
1:B:50:ILE:CG1	1:C:320:LYS:HE2	0.98	1.42
1:C:50:ILE:CG1	1:D:320:LYS:HE2	0.98	1.42
1:J:323:VAL:CG1	1:K:50:ILE:HG22	1.37	1.42
1:K:323:VAL:CG1	1:L:50:ILE:HG22	1.37	1.42
1:L:75:ASP:CA	1:P:245:GLU:HB3	1.48	1.42
1:G:49:TYR:CE1	1:H:320:LYS:HB3	1.52	1.41
1:G:218:THR:HB	1:H:278:GLN:CD	1.38	1.41
1:K:50:ILE:O	1:O:246:ILE:CA	1.66	1.41
1:K:300:TYR:CE2	1:L:225:LEU:HD13	1.53	1.41
1:E:225:LEU:HD13	1:F:300:TYR:CE2	1.52	1.41
1:G:204:HIS:NE2	1:J:274:PHE:CD1	1.82	1.41
1:J:275:LYS:HZ2	1:K:224:ASN:ND2	1.15	1.41
1:N:320:LYS:HG2	1:O:50:ILE:N	1.19	1.41
1:G:203:GLU:N	1:J:272:ARG:HG3	1.27	1.41
1:J:278:GLN:CD	1:K:218:THR:HB	1.38	1.41
1:M:299:THR:C	1:N:227:THR:CG2	1.86	1.41
1:O:299:THR:C	1:P:227:THR:CG2	1.86	1.41
1:E:50:ILE:HG22	1:F:323:VAL:CG1	1.37	1.41
1:H:274:PHE:HE1	1:K:204:HIS:CD2	1.39	1.41
1:N:299:THR:C	1:O:227:THR:CG2	1.86	1.41
1:I:73:VAL:HG21	1:M:240:MET:CE	1.49	1.40
1:C:227:THR:CG2	1:D:299:THR:C	1.86	1.40
1:F:198:GLU:HG3	1:I:203:GLU:CG	1.48	1.40
1:G:48:GLY:HA3	1:H:325:LYS:CG	1.42	1.40
1:K:168:ASN:HD22	1:L:71:GLN:CD	1.24	1.40
1:B:246:ILE:CA	1:F:50:ILE:O	1.69	1.40
1:G:218:THR:OG1	1:H:278:GLN:CG	1.69	1.40
1:J:308:ASN:ND2	1:O:231:ALA:N	1.69	1.40
1:B:227:THR:CG2	1:C:299:THR:C	1.86	1.40
1:F:204:HIS:NE2	1:I:274:PHE:CD1	1.83	1.40
1:I:278:GLN:CD	1:J:218:THR:HB	1.38	1.40
1:B:246:ILE:CD1	1:G:320:LYS:HA	1.51	1.40
1:F:204:HIS:CD2	1:I:274:PHE:CE1	2.10	1.40
1:I:308:ASN:ND2	1:N:231:ALA:N	1.65	1.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:227:THR:CG2	1:B:299:THR:C	1.86	1.39
1:E:50:ILE:CG2	1:F:323:VAL:HG11	0.91	1.39
1:E:71:GLN:CD	1:F:168:ASN:HD22	1.23	1.39
1:J:168:ASN:HD22	1:K:71:GLN:CD	1.23	1.39
1:F:50:ILE:HG22	1:G:323:VAL:CG1	1.36	1.39
1:A:47:ASP:HA	1:B:323:VAL:CG2	1.36	1.39
1:A:50:ILE:N	1:B:320:LYS:HG2	1.19	1.39
1:B:241:LYS:HB2	1:G:166:GLN:NE2	1.36	1.39
1:E:218:THR:OG1	1:F:278:GLN:CG	1.69	1.39
1:F:48:GLY:HA3	1:G:325:LYS:CG	1.42	1.39
1:F:50:ILE:CG2	1:G:323:VAL:HG11	0.91	1.39
1:G:71:GLN:NE2	1:H:168:ASN:ND2	1.67	1.39
1:J:168:ASN:ND2	1:K:71:GLN:NE2	1.67	1.39
1:G:50:ILE:CG2	1:H:323:VAL:HG11	0.91	1.39
1:K:75:ASP:CA	1:O:245:GLU:HB3	1.53	1.39
1:C:50:ILE:N	1:D:320:LYS:HG2	1.19	1.39
1:F:71:GLN:CD	1:G:168:ASN:HD22	1.23	1.39
1:I:168:ASN:ND2	1:J:71:GLN:NE2	1.67	1.39
1:K:168:ASN:ND2	1:L:71:GLN:NE2	1.67	1.39
1:B:47:ASP:HA	1:C:323:VAL:CG2	1.36	1.38
1:I:168:ASN:HD22	1:J:71:GLN:CD	1.23	1.38
1:J:278:GLN:CG	1:K:218:THR:OG1	1.69	1.38
1:F:71:GLN:NE2	1:G:168:ASN:ND2	1.67	1.38
1:B:246:ILE:HD13	1:F:50:ILE:CG2	1.30	1.38
1:C:47:ASP:HA	1:D:323:VAL:CG2	1.36	1.38
1:F:201:ILE:HG13	1:I:272:ARG:NH1	1.35	1.38
1:F:218:THR:OG1	1:G:278:GLN:CG	1.69	1.38
1:G:204:HIS:NE2	1:J:274:PHE:CE1	1.92	1.38
1:H:274:PHE:CD1	1:K:204:HIS:NE2	1.84	1.38
1:I:278:GLN:CG	1:J:218:THR:OG1	1.69	1.38
1:K:323:VAL:HG11	1:L:50:ILE:CG2	0.91	1.38
1:E:48:GLY:HA3	1:F:325:LYS:CG	1.42	1.38
1:I:323:VAL:HG11	1:J:50:ILE:CG2	0.91	1.38
1:G:50:ILE:HG22	1:H:323:VAL:CG1	1.37	1.37
1:K:52:ILE:CD1	1:O:247:ASP:C	1.92	1.37
1:K:278:GLN:CG	1:L:218:THR:OG1	1.69	1.37
1:O:320:LYS:CG	1:P:50:ILE:N	1.87	1.37
1:E:71:GLN:NE2	1:F:168:ASN:ND2	1.67	1.37
1:G:71:GLN:CD	1:H:168:ASN:HD22	1.23	1.37
1:H:203:GLU:CG	1:K:198:GLU:HG3	1.52	1.37
1:J:323:VAL:HG11	1:K:50:ILE:CG2	0.91	1.37

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:320:LYS:CG	1:O:50:ILE:N	1.87	1.37
1:A:246:ILE:O	1:E:52:ILE:CD1	1.71	1.37
1:H:272:ARG:NH1	1:K:201:ILE:HG13	1.37	1.37
1:M:320:LYS:CG	1:N:50:ILE:N	1.87	1.37
1:O:323:VAL:N	1:P:47:ASP:O	1.57	1.37
1:K:308:ASN:ND2	1:P:231:ALA:N	1.73	1.37
1:H:274:PHE:CE1	1:K:204:HIS:CD2	2.12	1.36
1:A:50:ILE:N	1:B:320:LYS:CG	1.87	1.36
1:C:245:GLU:HB3	1:G:75:ASP:N	1.40	1.36
1:G:274:PHE:CE1	1:J:204:HIS:NE2	1.92	1.36
1:N:323:VAL:N	1:O:47:ASP:O	1.57	1.36
1:K:308:ASN:HD22	1:P:232:GLU:N	1.19	1.36
1:B:50:ILE:N	1:C:320:LYS:CG	1.87	1.36
1:B:232:GLU:N	1:G:308:ASN:HD22	1.18	1.36
1:B:240:MET:CE	1:F:73:VAL:HG21	1.41	1.36
1:J:308:ASN:HD22	1:O:232:GLU:N	1.24	1.36
1:M:323:VAL:N	1:N:47:ASP:O	1.57	1.35
1:C:50:ILE:N	1:D:320:LYS:CG	1.87	1.35
1:O:323:VAL:CG2	1:P:47:ASP:HA	1.36	1.34
1:D:246:ILE:HD13	1:H:50:ILE:CG2	1.29	1.34
1:I:75:ASP:N	1:M:245:GLU:HB3	1.42	1.34
1:A:47:ASP:O	1:B:323:VAL:N	1.57	1.33
1:E:218:THR:CB	1:F:278:GLN:CG	2.07	1.33
1:G:218:THR:CB	1:H:278:GLN:CG	2.07	1.33
1:I:73:VAL:CG2	1:M:240:MET:CE	2.06	1.33
1:L:50:ILE:CG2	1:P:246:ILE:HD13	1.35	1.33
1:N:323:VAL:CG2	1:O:47:ASP:HA	1.36	1.33
1:A:241:LYS:HB2	1:F:166:GLN:NE2	1.41	1.33
1:B:247:ASP:C	1:F:52:ILE:CD1	1.95	1.33
1:C:246:ILE:HA	1:G:50:ILE:O	1.29	1.33
1:G:218:THR:HB	1:H:278:GLN:OE1	1.25	1.33
1:J:278:GLN:CG	1:K:218:THR:CB	2.07	1.33
1:N:323:VAL:N	1:O:47:ASP:C	1.75	1.33
1:O:300:TYR:CA	1:P:227:THR:CG2	2.05	1.33
1:B:47:ASP:O	1:C:323:VAL:N	1.57	1.32
1:F:218:THR:CB	1:G:278:GLN:CG	2.07	1.32
1:F:272:ARG:CG	1:I:203:GLU:H	1.40	1.32
1:I:308:ASN:HD22	1:N:232:GLU:N	1.28	1.32
1:N:300:TYR:CA	1:O:227:THR:CG2	2.05	1.32
1:A:308:ASN:OD1	1:E:231:ALA:CB	1.76	1.32
1:B:227:THR:HG21	1:C:299:THR:C	0.94	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:278:GLN:CG	1:L:218:THR:CB	2.06	1.32
1:O:323:VAL:N	1:P:47:ASP:C	1.75	1.32
1:C:227:THR:HG21	1:D:299:THR:C	0.94	1.32
1:F:218:THR:HB	1:G:278:GLN:OE1	1.25	1.32
1:O:299:THR:C	1:P:227:THR:HG21	0.94	1.32
1:I:278:GLN:CG	1:J:218:THR:CB	2.07	1.32
1:J:323:VAL:O	1:K:47:ASP:HA	1.30	1.32
1:M:323:VAL:CG2	1:N:47:ASP:HA	1.36	1.32
1:A:227:THR:HG21	1:B:299:THR:C	0.94	1.31
1:I:323:VAL:O	1:J:47:ASP:HA	1.29	1.31
1:K:323:VAL:O	1:L:47:ASP:HA	1.30	1.31
1:K:75:ASP:N	1:O:245:GLU:HB3	1.46	1.31
1:M:300:TYR:CA	1:N:227:THR:CG2	2.05	1.31
1:B:227:THR:CG2	1:C:300:TYR:CA	2.05	1.31
1:F:204:HIS:ND1	1:I:271:LYS:O	1.60	1.31
1:H:203:GLU:H	1:K:272:ARG:CG	1.43	1.31
1:C:47:ASP:O	1:D:323:VAL:N	1.57	1.31
1:F:201:ILE:CG2	1:I:199:ARG:O	1.78	1.31
1:L:75:ASP:HA	1:P:245:GLU:CB	1.60	1.31
1:N:299:THR:C	1:O:227:THR:HG21	0.94	1.31
1:H:271:LYS:O	1:K:204:HIS:ND1	1.60	1.31
1:M:320:LYS:HD3	1:N:49:TYR:CD1	1.65	1.31
1:N:320:LYS:HD3	1:O:49:TYR:CD1	1.65	1.31
1:I:278:GLN:OE1	1:J:218:THR:HB	1.25	1.30
1:M:299:THR:C	1:N:227:THR:HG21	0.94	1.30
1:O:320:LYS:HD3	1:P:49:TYR:CD1	1.65	1.30
1:E:218:THR:HB	1:F:278:GLN:OE1	1.25	1.30
1:J:52:ILE:HD12	1:N:247:ASP:C	1.28	1.30
1:J:75:ASP:N	1:N:245:GLU:HB3	1.42	1.30
1:A:49:TYR:CD1	1:B:320:LYS:HD3	1.65	1.30
1:A:227:THR:CG2	1:B:300:TYR:CA	2.05	1.30
1:O:320:LYS:CD	1:P:49:TYR:CD1	2.15	1.30
1:A:49:TYR:CD1	1:B:320:LYS:CD	2.15	1.30
1:B:49:TYR:CD1	1:C:320:LYS:HD3	1.65	1.30
1:C:241:LYS:N	1:H:166:GLN:CG	1.71	1.30
1:J:231:ALA:HB2	1:N:308:ASN:OD1	1.18	1.30
1:B:49:TYR:CD1	1:C:320:LYS:CD	2.15	1.30
1:C:49:TYR:CD1	1:D:320:LYS:HD3	1.65	1.30
1:L:231:ALA:CB	1:P:308:ASN:OD1	1.77	1.30
1:N:320:LYS:CD	1:O:49:TYR:CD1	2.15	1.30
1:I:278:GLN:HG2	1:J:218:THR:OG1	1.13	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:278:GLN:HG2	1:K:218:THR:OG1	1.13	1.29
1:B:245:GLU:HB3	1:F:75:ASP:N	1.45	1.29
1:C:49:TYR:CD1	1:D:320:LYS:CD	2.15	1.29
1:C:227:THR:CG2	1:D:300:TYR:CA	2.05	1.29
1:E:219:ASP:OD2	1:F:275:LYS:NZ	1.65	1.29
1:F:201:ILE:CG1	1:I:272:ARG:HH12	1.16	1.29
1:F:225:LEU:CD1	1:G:300:TYR:HE2	1.46	1.29
1:J:50:ILE:O	1:N:246:ILE:CA	1.80	1.29
1:K:300:TYR:HE2	1:L:225:LEU:CD1	1.46	1.29
1:G:203:GLU:H	1:J:272:ARG:CG	1.45	1.29
1:J:278:GLN:OE1	1:K:218:THR:HB	1.25	1.29
1:E:225:LEU:CD1	1:F:300:TYR:HE2	1.45	1.29
1:G:272:ARG:CG	1:J:203:GLU:H	1.44	1.29
1:K:278:GLN:HG2	1:L:218:THR:OG1	1.13	1.29
1:L:75:ASP:CA	1:P:245:GLU:CB	2.09	1.29
1:M:320:LYS:CD	1:N:49:TYR:CD1	2.15	1.29
1:A:241:LYS:C	1:F:166:GLN:OE1	1.69	1.29
1:K:168:ASN:HD22	1:L:71:GLN:NE2	1.27	1.29
1:A:47:ASP:C	1:B:323:VAL:N	1.75	1.28
1:F:219:ASP:OD2	1:G:275:LYS:NZ	1.65	1.28
1:G:225:LEU:CD1	1:H:300:TYR:HE2	1.46	1.28
1:H:203:GLU:CG	1:K:198:GLU:CG	2.08	1.28
1:J:50:ILE:O	1:N:246:ILE:HA	1.10	1.28
1:I:275:LYS:NZ	1:J:219:ASP:OD2	1.65	1.28
1:I:300:TYR:HE2	1:J:225:LEU:CD1	1.45	1.28
1:J:300:TYR:HE2	1:K:225:LEU:CD1	1.46	1.28
1:C:246:ILE:CG1	1:G:50:ILE:N	1.85	1.28
1:J:275:LYS:NZ	1:K:219:ASP:OD2	1.65	1.28
1:K:320:LYS:HA	1:P:246:ILE:CD1	1.62	1.28
1:A:246:ILE:CD1	1:E:50:ILE:HG23	1.45	1.27
1:D:308:ASN:ND2	1:H:241:LYS:O	1.67	1.27
1:K:278:GLN:OE1	1:L:218:THR:HB	1.25	1.27
1:L:75:ASP:N	1:P:245:GLU:HB3	1.48	1.27
1:F:203:GLU:H	1:I:272:ARG:CG	1.45	1.27
1:G:218:THR:OG1	1:H:278:GLN:HG2	1.13	1.27
1:I:324:ALA:HB1	1:J:46:GLU:CG	1.65	1.27
1:J:324:ALA:HB1	1:K:46:GLU:CG	1.65	1.27
1:B:245:GLU:CB	1:F:75:ASP:CA	2.11	1.27
1:F:203:GLU:CG	1:I:198:GLU:CG	2.12	1.27
1:K:324:ALA:HB1	1:L:46:GLU:CG	1.65	1.27
1:G:198:GLU:CG	1:J:203:GLU:CG	2.11	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:168:ASN:CG	1:K:71:GLN:NE2	1.88	1.27
1:O:300:TYR:HE2	1:P:225:LEU:CD2	1.48	1.27
1:A:225:LEU:CD2	1:B:300:TYR:HE2	1.48	1.26
1:F:71:GLN:NE2	1:G:168:ASN:CG	1.88	1.26
1:F:218:THR:OG1	1:G:278:GLN:HG2	1.13	1.26
1:G:46:GLU:CG	1:H:324:ALA:HB1	1.65	1.26
1:H:199:ARG:O	1:K:201:ILE:CG2	1.82	1.26
1:H:272:ARG:CG	1:K:203:GLU:H	1.47	1.26
1:K:75:ASP:HA	1:O:245:GLU:CB	1.64	1.26
1:K:168:ASN:CG	1:L:71:GLN:NE2	1.88	1.26
1:C:241:LYS:N	1:H:166:GLN:HG2	1.14	1.26
1:I:325:LYS:CG	1:J:48:GLY:HA3	1.42	1.26
1:K:75:ASP:CA	1:O:245:GLU:CB	2.12	1.26
1:B:225:LEU:CD2	1:C:300:TYR:HE2	1.48	1.26
1:F:46:GLU:CG	1:G:324:ALA:HB1	1.65	1.26
1:J:320:LYS:HA	1:O:246:ILE:CD1	1.65	1.26
1:J:325:LYS:CG	1:K:48:GLY:HA3	1.42	1.26
1:K:325:LYS:CG	1:L:48:GLY:HA3	1.42	1.26
1:E:218:THR:OG1	1:F:278:GLN:HG2	1.13	1.26
1:G:219:ASP:OD2	1:H:275:LYS:NZ	1.65	1.26
1:K:275:LYS:NZ	1:L:219:ASP:OD2	1.65	1.26
1:C:240:MET:CE	1:G:73:VAL:CG2	2.12	1.26
1:E:46:GLU:CG	1:F:324:ALA:HB1	1.65	1.26
1:G:71:GLN:NE2	1:H:168:ASN:CG	1.88	1.25
1:N:300:TYR:HE2	1:O:225:LEU:CD2	1.48	1.25
1:I:278:GLN:HB3	1:J:218:THR:CA	1.67	1.25
1:J:278:GLN:HB3	1:K:218:THR:CA	1.66	1.25
1:K:278:GLN:HB3	1:L:218:THR:CA	1.66	1.25
1:B:231:ALA:N	1:G:308:ASN:ND2	1.84	1.25
1:B:240:MET:CE	1:F:73:VAL:CB	2.13	1.25
1:C:241:LYS:C	1:H:166:GLN:N	1.89	1.25
1:E:71:GLN:NE2	1:F:168:ASN:CG	1.88	1.25
1:G:71:GLN:NE2	1:H:168:ASN:HD22	1.26	1.25
1:G:203:GLU:CG	1:J:198:GLU:CG	2.12	1.25
1:H:272:ARG:HH12	1:K:201:ILE:CG1	1.18	1.25
1:I:168:ASN:HD22	1:J:71:GLN:NE2	1.26	1.25
1:F:198:GLU:CG	1:I:203:GLU:CG	2.03	1.25
1:C:225:LEU:CD2	1:D:300:TYR:HE2	1.48	1.25
1:J:73:VAL:CG2	1:N:240:MET:HE2	1.49	1.25
1:E:47:ASP:HA	1:F:323:VAL:O	1.30	1.25
1:I:168:ASN:CG	1:J:71:GLN:NE2	1.88	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:218:THR:CA	1:H:278:GLN:HB3	1.67	1.24
1:I:320:LYS:HA	1:N:246:ILE:CD1	1.65	1.24
1:M:300:TYR:HE2	1:N:225:LEU:CD2	1.48	1.24
1:B:240:MET:HE3	1:F:73:VAL:CG2	1.47	1.24
1:F:203:GLU:OE1	1:I:274:PHE:CZ	1.90	1.24
1:A:246:ILE:O	1:E:52:ILE:HD11	1.26	1.24
1:F:47:ASP:HA	1:G:323:VAL:O	1.30	1.24
1:F:218:THR:CA	1:G:278:GLN:HB3	1.67	1.24
1:G:271:LYS:O	1:J:202:GLU:OE2	1.55	1.24
1:M:324:ALA:CB	1:N:46:GLU:CA	1.81	1.24
1:A:231:ALA:N	1:F:308:ASN:ND2	1.86	1.23
1:B:46:GLU:CA	1:C:324:ALA:CB	1.82	1.23
1:E:218:THR:CA	1:F:278:GLN:HB3	1.66	1.23
1:F:46:GLU:HG3	1:G:324:ALA:CB	1.68	1.23
1:G:46:GLU:HG3	1:H:324:ALA:CB	1.68	1.23
1:G:272:ARG:NH1	1:J:201:ILE:HG13	1.53	1.23
1:H:274:PHE:CZ	1:K:203:GLU:OE1	1.90	1.23
1:K:324:ALA:CB	1:L:46:GLU:HG3	1.68	1.23
1:M:320:LYS:O	1:N:47:ASP:C	1.74	1.23
1:A:47:ASP:C	1:B:320:LYS:O	1.74	1.23
1:A:232:GLU:N	1:F:308:ASN:HD22	1.35	1.23
1:E:46:GLU:HG3	1:F:324:ALA:CB	1.68	1.23
1:G:47:ASP:HA	1:H:323:VAL:O	1.30	1.23
1:G:198:GLU:HG3	1:J:203:GLU:CG	1.67	1.23
1:I:74:GLU:C	1:M:245:GLU:HB3	1.58	1.23
1:J:324:ALA:CB	1:K:46:GLU:HG3	1.68	1.23
1:A:241:LYS:HA	1:F:165:GLU:OE2	1.33	1.23
1:B:47:ASP:C	1:C:320:LYS:O	1.74	1.23
1:C:47:ASP:C	1:D:320:LYS:O	1.74	1.23
1:I:324:ALA:CB	1:J:46:GLU:HG3	1.68	1.23
1:N:320:LYS:O	1:O:47:ASP:C	1.74	1.23
1:G:201:ILE:HG13	1:J:272:ARG:NH1	1.54	1.23
1:G:218:THR:OG1	1:H:278:GLN:CB	1.86	1.23
1:B:241:LYS:CB	1:G:166:GLN:NE2	2.01	1.23
1:C:246:ILE:HD12	1:H:320:LYS:CA	1.68	1.23
1:I:308:ASN:ND2	1:N:232:GLU:H	1.37	1.23
1:O:320:LYS:O	1:P:47:ASP:C	1.74	1.23
1:F:218:THR:OG1	1:G:278:GLN:CB	1.86	1.22
1:J:75:ASP:CA	1:N:245:GLU:HB3	1.68	1.22
1:A:47:ASP:OD2	1:B:326:TYR:HB3	1.39	1.22
1:E:218:THR:OG1	1:F:278:GLN:CB	1.86	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:246:ILE:CD1	1:H:320:LYS:CA	2.18	1.22
1:C:308:ASN:OD1	1:G:231:ALA:HB2	1.36	1.22
1:K:231:ALA:CB	1:O:308:ASN:OD1	1.85	1.22
1:O:326:TYR:HB3	1:P:47:ASP:OD2	1.39	1.22
1:B:47:ASP:OD2	1:C:326:TYR:HB3	1.39	1.22
1:B:245:GLU:CB	1:F:75:ASP:HA	1.66	1.22
1:D:245:GLU:HB3	1:H:75:ASP:N	1.53	1.22
1:H:198:GLU:CG	1:K:203:GLU:CG	2.15	1.22
1:J:278:GLN:CB	1:K:218:THR:OG1	1.86	1.22
1:I:278:GLN:CB	1:J:218:THR:OG1	1.86	1.22
1:K:278:GLN:CB	1:L:218:THR:OG1	1.86	1.22
1:B:47:ASP:C	1:C:323:VAL:N	1.75	1.21
1:B:308:ASN:OD1	1:F:231:ALA:HB2	1.07	1.21
1:A:79:THR:HG23	1:B:192:CYS:CB	1.70	1.21
1:G:202:GLU:OE2	1:J:271:LYS:O	1.56	1.21
1:H:198:GLU:HG2	1:K:203:GLU:CG	1.70	1.21
1:N:326:TYR:HB3	1:O:47:ASP:OD2	1.39	1.21
1:C:47:ASP:OD2	1:D:326:TYR:HB3	1.39	1.21
1:C:241:LYS:O	1:H:165:GLU:HG2	1.40	1.21
1:F:71:GLN:NE2	1:G:168:ASN:HD22	1.27	1.21
1:F:203:GLU:CG	1:I:198:GLU:HG2	1.68	1.21
1:O:324:ALA:CB	1:P:46:GLU:CA	1.81	1.21
1:B:79:THR:HG23	1:C:192:CYS:CB	1.70	1.21
1:G:199:ARG:O	1:J:201:ILE:CG2	1.88	1.21
1:G:201:ILE:CG2	1:J:199:ARG:O	1.89	1.21
1:K:323:VAL:CG1	1:L:50:ILE:HG23	1.56	1.21
1:C:79:THR:HG23	1:D:192:CYS:CB	1.70	1.20
1:B:46:GLU:CB	1:C:324:ALA:HB2	1.56	1.20
1:M:192:CYS:CB	1:N:79:THR:HG23	1.70	1.20
1:M:326:TYR:HB3	1:N:47:ASP:OD2	1.39	1.20
1:H:274:PHE:CE1	1:K:204:HIS:NE2	2.06	1.20
1:K:168:ASN:ND2	1:L:71:GLN:HE22	1.28	1.20
1:N:192:CYS:CB	1:O:79:THR:HG23	1.69	1.20
1:O:323:VAL:CG2	1:P:47:ASP:CA	2.19	1.20
1:A:248:THR:HG22	1:E:52:ILE:HA	1.21	1.20
1:B:47:ASP:CA	1:C:323:VAL:CG2	2.19	1.20
1:C:246:ILE:CD1	1:H:323:VAL:CG2	2.20	1.20
1:G:203:GLU:CG	1:J:198:GLU:HG3	1.68	1.20
1:I:168:ASN:ND2	1:J:71:GLN:HE22	1.28	1.20
1:O:192:CYS:CB	1:P:79:THR:HG23	1.70	1.20
1:B:241:LYS:HA	1:G:165:GLU:OE2	1.40	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:168:ASN:HD22	1:K:71:GLN:NE2	1.27	1.19
1:K:165:GLU:OE2	1:P:241:LYS:HA	1.38	1.19
1:I:52:ILE:HD12	1:M:247:ASP:C	1.55	1.19
1:B:48:GLY:N	1:C:320:LYS:O	1.64	1.19
1:F:218:THR:CB	1:G:278:GLN:HG2	1.69	1.19
1:J:52:ILE:CD1	1:N:247:ASP:C	2.09	1.19
1:J:323:VAL:C	1:K:49:TYR:O	1.73	1.19
1:M:299:THR:O	1:N:227:THR:HG21	1.38	1.19
1:M:320:LYS:O	1:N:48:GLY:N	1.65	1.19
1:A:246:ILE:CD1	1:F:320:LYS:HA	1.72	1.19
1:B:49:TYR:HE1	1:C:163:PHE:O	1.26	1.19
1:C:49:TYR:HE1	1:D:163:PHE:O	1.26	1.19
1:D:246:ILE:CD1	1:H:50:ILE:HG23	1.73	1.19
1:K:323:VAL:C	1:L:49:TYR:O	1.73	1.19
1:M:323:VAL:CG2	1:N:47:ASP:CA	2.19	1.19
1:C:240:MET:CE	1:G:73:VAL:HG21	1.69	1.19
1:F:199:ARG:O	1:I:201:ILE:CG2	1.91	1.19
1:G:218:THR:CB	1:H:278:GLN:HG2	1.69	1.19
1:I:50:ILE:O	1:M:246:ILE:HA	1.41	1.19
1:N:299:THR:O	1:O:227:THR:HG21	1.38	1.19
1:A:227:THR:HG21	1:B:299:THR:O	1.38	1.18
1:O:300:TYR:CE2	1:P:225:LEU:CD2	2.25	1.18
1:A:246:ILE:C	1:E:52:ILE:CD1	2.08	1.18
1:B:232:GLU:H	1:G:308:ASN:ND2	1.40	1.18
1:C:227:THR:HG21	1:D:299:THR:O	1.38	1.18
1:G:48:GLY:CA	1:H:325:LYS:HG2	1.73	1.18
1:I:325:LYS:HG2	1:J:48:GLY:CA	1.73	1.18
1:J:325:LYS:HG2	1:K:48:GLY:CA	1.73	1.18
1:L:52:ILE:CG1	1:P:247:ASP:O	1.90	1.18
1:A:49:TYR:HE1	1:B:163:PHE:O	1.26	1.18
1:A:229:GLU:CD	1:F:309:ASN:O	1.76	1.18
1:F:48:GLY:CA	1:G:325:LYS:HG2	1.73	1.18
1:F:199:ARG:O	1:I:201:ILE:HG23	1.44	1.18
1:I:323:VAL:C	1:J:49:TYR:O	1.73	1.18
1:A:47:ASP:CA	1:B:323:VAL:CG2	2.19	1.18
1:C:47:ASP:CA	1:D:323:VAL:CG2	2.19	1.18
1:G:50:ILE:HG23	1:H:323:VAL:CG1	1.56	1.18
1:K:278:GLN:HG2	1:L:218:THR:CB	1.69	1.18
1:K:325:LYS:HG2	1:L:48:GLY:CA	1.73	1.18
1:O:299:THR:O	1:P:227:THR:HG21	1.38	1.18
1:B:227:THR:HG21	1:C:299:THR:O	1.38	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:47:ASP:C	1:D:323:VAL:N	1.75	1.18
1:F:71:GLN:HE22	1:G:168:ASN:ND2	1.28	1.18
1:M:163:PHE:O	1:N:49:TYR:HE1	1.26	1.18
1:M:320:LYS:HD3	1:N:49:TYR:CG	1.79	1.18
1:M:324:ALA:HB2	1:N:46:GLU:CB	1.56	1.18
1:E:48:GLY:CA	1:F:325:LYS:HG2	1.73	1.17
1:J:75:ASP:CA	1:N:245:GLU:CB	2.22	1.17
1:N:320:LYS:HD3	1:O:49:TYR:CG	1.79	1.17
1:N:323:VAL:CG2	1:O:47:ASP:CA	2.19	1.17
1:B:246:ILE:HD13	1:G:323:VAL:CG1	1.55	1.17
1:C:46:GLU:CA	1:D:324:ALA:CB	1.82	1.17
1:K:324:ALA:CB	1:L:49:TYR:HB3	1.74	1.17
1:O:320:LYS:HD3	1:P:49:TYR:CG	1.79	1.17
1:J:168:ASN:ND2	1:K:71:GLN:HE22	1.28	1.17
1:J:324:ALA:CB	1:K:49:TYR:HB3	1.74	1.17
1:M:323:VAL:N	1:N:47:ASP:C	1.75	1.17
1:N:163:PHE:O	1:O:49:TYR:HE1	1.26	1.17
1:B:308:ASN:OD1	1:F:231:ALA:CB	1.91	1.17
1:C:241:LYS:C	1:H:166:GLN:H	1.13	1.17
1:I:324:ALA:CB	1:J:49:TYR:HB3	1.74	1.17
1:C:245:GLU:HB3	1:G:75:ASP:CA	1.74	1.16
1:E:71:GLN:HE22	1:F:168:ASN:ND2	1.28	1.16
1:E:218:THR:CB	1:F:278:GLN:HG2	1.69	1.16
1:H:131:LYS:HA	1:H:149:ILE:HD11	1.18	1.16
1:I:170:LYS:HE2	1:J:79:THR:HA	1.27	1.16
1:J:278:GLN:HG2	1:K:218:THR:CB	1.69	1.16
1:C:49:TYR:CG	1:D:320:LYS:HD3	1.79	1.16
1:C:241:LYS:HB2	1:H:166:GLN:NE2	1.55	1.16
1:F:50:ILE:HG23	1:G:323:VAL:CG1	1.56	1.16
1:O:300:TYR:N	1:P:227:THR:HG21	1.48	1.16
1:B:49:TYR:CG	1:C:320:LYS:HD3	1.79	1.16
1:G:71:GLN:HE22	1:H:168:ASN:ND2	1.28	1.16
1:I:303:ASN:HB2	1:J:226:ILE:H	1.10	1.16
1:M:277:ASP:HB3	1:N:218:THR:OG1	1.45	1.16
1:O:163:PHE:O	1:P:49:TYR:HE1	1.26	1.16
1:A:49:TYR:CG	1:B:320:LYS:HD3	1.79	1.16
1:C:48:GLY:N	1:D:320:LYS:O	1.64	1.16
1:C:247:ASP:C	1:G:52:ILE:HD12	1.65	1.16
1:E:71:GLN:NE2	1:F:168:ASN:HD22	1.27	1.16
1:K:231:ALA:HB2	1:O:308:ASN:OD1	0.99	1.16
1:M:320:LYS:CG	1:N:50:ILE:H	1.54	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:131:LYS:HA	1:P:149:ILE:HD11	1.18	1.16
1:A:246:ILE:C	1:E:52:ILE:HD11	1.36	1.15
1:E:49:TYR:O	1:F:323:VAL:C	1.73	1.15
1:G:131:LYS:HA	1:G:149:ILE:HD11	1.18	1.15
1:K:166:GLN:NE2	1:P:241:LYS:HB2	1.39	1.15
1:A:230:GLN:HB2	1:F:307:THR:O	1.44	1.15
1:B:50:ILE:H	1:C:320:LYS:CG	1.54	1.15
1:J:303:ASN:HB2	1:K:226:ILE:N	1.57	1.15
1:J:322:ALA:HA	1:K:48:GLY:HA2	1.29	1.15
1:N:277:ASP:HB3	1:O:218:THR:OG1	1.45	1.15
1:N:324:ALA:HB2	1:O:46:GLU:CB	1.56	1.15
1:O:131:LYS:HA	1:O:149:ILE:HD11	1.18	1.15
1:A:227:THR:HG21	1:B:300:TYR:N	1.48	1.15
1:D:246:ILE:CD1	1:H:50:ILE:CG2	2.25	1.15
1:F:49:TYR:HB3	1:G:324:ALA:CB	1.74	1.15
1:H:201:ILE:CG2	1:K:199:ARG:O	1.94	1.15
1:I:278:GLN:HG2	1:J:218:THR:CB	1.69	1.15
1:I:303:ASN:HB2	1:J:226:ILE:N	1.57	1.15
1:K:303:ASN:HB2	1:L:226:ILE:N	1.57	1.15
1:A:241:LYS:CB	1:F:166:GLN:NE2	2.10	1.15
1:E:49:TYR:HB3	1:F:324:ALA:CB	1.74	1.15
1:F:131:LYS:HA	1:F:149:ILE:HD11	1.18	1.15
1:F:204:HIS:NE2	1:I:274:PHE:CE1	2.06	1.15
1:F:271:LYS:HZ2	1:I:265:ALA:HA	1.10	1.15
1:G:49:TYR:HB3	1:H:324:ALA:CB	1.74	1.15
1:O:277:ASP:HB3	1:P:218:THR:OG1	1.45	1.15
1:E:50:ILE:HG23	1:F:323:VAL:CG1	1.56	1.15
1:K:322:ALA:HA	1:L:48:GLY:HA2	1.29	1.15
1:B:246:ILE:HD12	1:G:320:LYS:CA	1.77	1.14
1:G:49:TYR:O	1:H:323:VAL:C	1.73	1.14
1:H:201:ILE:HG23	1:K:199:ARG:O	1.47	1.14
1:A:218:THR:OG1	1:B:277:ASP:HB3	1.45	1.14
1:B:232:GLU:N	1:G:308:ASN:ND2	1.90	1.14
1:I:73:VAL:CG2	1:M:240:MET:HE2	1.74	1.14
1:N:300:TYR:N	1:O:227:THR:HG21	1.48	1.14
1:B:247:ASP:O	1:F:52:ILE:CG1	1.96	1.14
1:F:224:ASN:ND2	1:G:275:LYS:NZ	1.96	1.14
1:I:275:LYS:NZ	1:J:224:ASN:ND2	1.96	1.14
1:J:219:ASP:HA	1:J:224:ASN:CB	1.77	1.14
1:N:131:LYS:HA	1:N:149:ILE:HD11	1.18	1.14
1:O:320:LYS:O	1:P:48:GLY:N	1.65	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:324:ALA:HB3	1:P:46:GLU:HB2	1.28	1.14
1:B:47:ASP:OD2	1:C:326:TYR:CB	1.96	1.14
1:C:240:MET:HE3	1:G:73:VAL:HG21	1.20	1.14
1:G:183:ASN:HD21	1:J:197:SER:HB3	1.13	1.14
1:G:224:ASN:ND2	1:H:275:LYS:NZ	1.96	1.14
1:I:219:ASP:HA	1:I:224:ASN:CB	1.77	1.14
1:J:275:LYS:NZ	1:K:224:ASN:ND2	1.96	1.14
1:K:308:ASN:ND2	1:P:232:GLU:N	1.94	1.14
1:A:46:GLU:HB2	1:B:324:ALA:HB3	1.28	1.14
1:E:224:ASN:ND2	1:F:275:LYS:NZ	1.96	1.14
1:J:325:LYS:CG	1:K:48:GLY:CA	2.26	1.14
1:K:52:ILE:CG1	1:O:247:ASP:O	1.96	1.14
1:K:219:ASP:HA	1:K:224:ASN:CB	1.77	1.14
1:L:219:ASP:HA	1:L:224:ASN:CB	1.77	1.14
1:M:169:PHE:O	1:N:79:THR:HB	1.47	1.14
1:O:320:LYS:CG	1:P:50:ILE:H	1.54	1.14
1:A:47:ASP:OD2	1:B:326:TYR:CB	1.96	1.13
1:E:131:LYS:HA	1:E:149:ILE:HD11	1.18	1.13
1:H:203:GLU:HB2	1:K:197:SER:O	1.44	1.13
1:I:308:ASN:ND2	1:N:232:GLU:N	1.91	1.13
1:I:322:ALA:HA	1:J:48:GLY:HA2	1.29	1.13
1:J:170:LYS:HE2	1:K:79:THR:HA	1.26	1.13
1:J:325:LYS:HE2	1:K:46:GLU:OE2	1.48	1.13
1:M:219:ASP:HA	1:M:224:ASN:CB	1.77	1.13
1:N:219:ASP:HA	1:N:224:ASN:CB	1.77	1.13
1:A:131:LYS:HA	1:A:149:ILE:HD11	1.18	1.13
1:C:46:GLU:CB	1:D:324:ALA:HB2	1.56	1.13
1:C:47:ASP:OD2	1:D:326:TYR:CB	1.96	1.13
1:F:49:TYR:O	1:G:323:VAL:C	1.73	1.13
1:H:219:ASP:HA	1:H:224:ASN:CB	1.77	1.13
1:M:131:LYS:HA	1:M:149:ILE:HD11	1.18	1.13
1:M:326:TYR:CB	1:N:47:ASP:OD2	1.96	1.13
1:O:219:ASP:HA	1:O:224:ASN:CB	1.77	1.13
1:A:48:GLY:N	1:B:320:LYS:O	1.65	1.13
1:B:131:LYS:HA	1:B:149:ILE:HD11	1.18	1.13
1:B:218:THR:OG1	1:C:277:ASP:HB3	1.45	1.13
1:C:46:GLU:CB	1:D:324:ALA:HB1	1.62	1.13
1:C:218:THR:OG1	1:D:277:ASP:CB	1.97	1.13
1:E:46:GLU:OE2	1:F:325:LYS:HE2	1.48	1.13
1:G:48:GLY:CA	1:H:325:LYS:CG	2.26	1.13
1:G:219:ASP:HA	1:G:224:ASN:CB	1.77	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:231:ALA:HB2	1:M:308:ASN:OD1	1.45	1.13
1:I:325:LYS:HE2	1:J:46:GLU:OE2	1.48	1.13
1:J:74:GLU:C	1:N:245:GLU:HB3	1.67	1.13
1:K:325:LYS:HE2	1:L:46:GLU:OE2	1.48	1.13
1:L:131:LYS:HA	1:L:149:ILE:HD11	1.18	1.13
1:N:169:PHE:O	1:O:79:THR:HB	1.47	1.13
1:B:227:THR:HG21	1:C:300:TYR:N	1.48	1.13
1:E:79:THR:HA	1:F:170:LYS:HE2	1.27	1.13
1:F:68:ILE:HD13	1:F:92:THR:HB	1.14	1.13
1:F:219:ASP:HA	1:F:224:ASN:CB	1.77	1.13
1:K:52:ILE:HG23	1:O:248:THR:HA	1.22	1.13
1:K:275:LYS:NZ	1:L:224:ASN:ND2	1.96	1.13
1:P:68:ILE:HD13	1:P:92:THR:HB	1.15	1.13
1:P:219:ASP:HA	1:P:224:ASN:CB	1.77	1.13
1:A:46:GLU:CB	1:B:324:ALA:HB2	1.56	1.13
1:E:48:GLY:CA	1:F:325:LYS:CG	2.26	1.13
1:E:219:ASP:HA	1:E:224:ASN:CB	1.77	1.13
1:G:68:ILE:HD13	1:G:92:THR:HB	1.14	1.13
1:I:131:LYS:HA	1:I:149:ILE:HD11	1.18	1.13
1:J:308:ASN:ND2	1:O:232:GLU:N	1.95	1.12
1:K:166:GLN:NE2	1:P:241:LYS:CB	1.99	1.12
1:K:325:LYS:CG	1:L:48:GLY:CA	2.26	1.12
1:N:277:ASP:CB	1:O:218:THR:OG1	1.97	1.13
1:E:68:ILE:HD13	1:E:92:THR:HB	1.14	1.12
1:G:79:THR:HA	1:H:170:LYS:HE2	1.27	1.12
1:G:274:PHE:CZ	1:J:203:GLU:OE1	2.02	1.12
1:O:169:PHE:O	1:P:79:THR:HB	1.48	1.12
1:O:277:ASP:CB	1:P:218:THR:OG1	1.97	1.12
1:C:131:LYS:HA	1:C:149:ILE:HD11	1.18	1.12
1:F:197:SER:O	1:I:203:GLU:HB2	1.47	1.12
1:G:48:GLY:HA2	1:H:322:ALA:HA	1.29	1.12
1:H:120:ALA:HB2	1:K:120:ALA:HB2	1.30	1.12
1:M:277:ASP:HB3	1:N:218:THR:HG1	1.02	1.12
1:N:323:VAL:HG23	1:O:47:ASP:HA	1.15	1.12
1:N:326:TYR:CB	1:O:47:ASP:OD2	1.96	1.12
1:A:46:GLU:CA	1:B:324:ALA:CB	1.81	1.12
1:E:48:GLY:HA2	1:F:322:ALA:HA	1.29	1.12
1:F:46:GLU:OE2	1:G:325:LYS:HE2	1.48	1.12
1:L:52:ILE:HG23	1:P:248:THR:HA	1.17	1.12
1:M:300:TYR:N	1:N:227:THR:HG21	1.48	1.12
1:A:219:ASP:HA	1:A:224:ASN:CB	1.77	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:218:THR:OG1	1:C:277:ASP:CB	1.97	1.12
1:B:225:LEU:CD2	1:C:300:TYR:CE2	2.25	1.12
1:B:248:THR:HA	1:F:52:ILE:HG23	1.16	1.12
1:H:68:ILE:HD13	1:H:92:THR:HB	1.14	1.12
1:J:131:LYS:HA	1:J:149:ILE:HD11	1.18	1.12
1:M:277:ASP:CB	1:N:218:THR:OG1	1.97	1.12
1:N:324:ALA:HB3	1:O:46:GLU:HB2	1.28	1.12
1:O:326:TYR:CB	1:P:47:ASP:OD2	1.96	1.12
1:A:218:THR:OG1	1:B:277:ASP:CB	1.97	1.12
1:A:225:LEU:CD2	1:B:300:TYR:CE2	2.25	1.12
1:A:244:GLY:N	1:F:320:LYS:NZ	1.86	1.12
1:B:46:GLU:CB	1:C:324:ALA:HB1	1.61	1.12
1:C:218:THR:OG1	1:D:277:ASP:HB3	1.45	1.12
1:F:48:GLY:HA2	1:G:322:ALA:HA	1.29	1.12
1:I:325:LYS:CG	1:J:48:GLY:CA	2.26	1.12
1:K:303:ASN:HB2	1:L:226:ILE:H	1.10	1.12
1:M:324:ALA:HB1	1:N:46:GLU:CB	1.61	1.12
1:N:324:ALA:CB	1:O:46:GLU:CA	1.81	1.12
1:B:219:ASP:HA	1:B:224:ASN:CB	1.77	1.11
1:C:79:THR:HB	1:D:169:PHE:O	1.47	1.11
1:C:225:LEU:CD2	1:D:300:TYR:CE2	2.25	1.11
1:D:131:LYS:HA	1:D:149:ILE:HD11	1.18	1.11
1:H:219:ASP:CA	1:H:224:ASN:HB2	1.80	1.11
1:J:278:GLN:N	1:K:218:THR:OG1	1.81	1.11
1:K:131:LYS:HA	1:K:149:ILE:HD11	1.18	1.11
1:O:68:ILE:HD13	1:O:92:THR:HB	1.14	1.11
1:A:79:THR:CG2	1:B:192:CYS:CB	2.27	1.11
1:A:218:THR:HG1	1:B:277:ASP:HB3	1.05	1.11
1:B:219:ASP:CG	1:C:275:LYS:HZ1	1.53	1.11
1:E:218:THR:OG1	1:F:278:GLN:N	1.81	1.11
1:F:48:GLY:CA	1:G:325:LYS:CG	2.26	1.11
1:H:203:GLU:CB	1:K:197:SER:O	1.98	1.11
1:I:278:GLN:N	1:J:218:THR:OG1	1.81	1.11
1:B:79:THR:CG2	1:C:192:CYS:CB	2.27	1.11
1:B:79:THR:HB	1:C:169:PHE:O	1.47	1.11
1:D:246:ILE:CD1	1:H:50:ILE:N	2.12	1.11
1:D:250:SER:HB3	1:D:253:VAL:HB	1.33	1.11
1:F:218:THR:OG1	1:G:278:GLN:N	1.81	1.11
1:G:120:ALA:HB2	1:J:120:ALA:HB2	1.30	1.11
1:G:203:GLU:OE1	1:J:274:PHE:CZ	2.03	1.11
1:I:68:ILE:HD13	1:I:92:THR:HB	1.14	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:165:GLU:CA	1:P:241:LYS:O	1.91	1.11
1:M:192:CYS:CB	1:N:79:THR:CG2	2.26	1.11
1:M:320:LYS:CD	1:N:50:ILE:H	1.63	1.11
1:O:324:ALA:HB2	1:P:46:GLU:CB	1.56	1.11
1:A:79:THR:HB	1:B:169:PHE:O	1.48	1.11
1:C:79:THR:CG2	1:D:192:CYS:CB	2.27	1.11
1:C:219:ASP:HA	1:C:224:ASN:CB	1.77	1.11
1:H:265:ALA:HA	1:K:271:LYS:HZ2	1.14	1.11
1:L:52:ILE:HD12	1:P:248:THR:N	1.63	1.11
1:N:250:SER:HB3	1:N:253:VAL:HB	1.33	1.11
1:N:320:LYS:O	1:O:48:GLY:N	1.65	1.11
1:O:250:SER:HB3	1:O:253:VAL:HB	1.33	1.11
1:P:250:SER:HB3	1:P:253:VAL:HB	1.33	1.11
1:C:250:SER:HB3	1:C:253:VAL:HB	1.33	1.11
1:D:219:ASP:HA	1:D:224:ASN:CB	1.77	1.11
1:D:219:ASP:CA	1:D:224:ASN:HB2	1.81	1.11
1:G:46:GLU:OE2	1:H:325:LYS:HE2	1.48	1.11
1:G:218:THR:OG1	1:H:278:GLN:N	1.81	1.11
1:L:153:THR:HG21	1:L:325:LYS:HG3	1.33	1.11
1:O:277:ASP:HB3	1:P:218:THR:HG1	0.94	1.11
1:B:218:THR:HG1	1:C:277:ASP:HB3	0.97	1.10
1:C:219:ASP:CA	1:C:224:ASN:HB2	1.81	1.10
1:C:227:THR:HG21	1:D:300:TYR:N	1.48	1.10
1:I:219:ASP:CA	1:I:224:ASN:HB2	1.80	1.10
1:J:165:GLU:OE2	1:O:241:LYS:HA	1.46	1.10
1:K:278:GLN:N	1:L:218:THR:OG1	1.81	1.10
1:N:320:LYS:CD	1:O:50:ILE:H	1.63	1.10
1:B:219:ASP:CA	1:B:224:ASN:HB2	1.80	1.10
1:B:240:MET:HE2	1:F:73:VAL:CG2	1.59	1.10
1:G:203:GLU:CG	1:J:198:GLU:HG2	1.79	1.10
1:J:68:ILE:HD13	1:J:92:THR:HB	1.14	1.10
1:K:153:THR:HG21	1:K:325:LYS:HG3	1.33	1.10
1:N:68:ILE:HD13	1:N:92:THR:HB	1.14	1.10
1:A:47:ASP:HA	1:B:323:VAL:HG23	1.15	1.10
1:A:219:ASP:CA	1:A:224:ASN:HB2	1.80	1.10
1:A:244:GLY:H	1:F:320:LYS:NZ	1.43	1.10
1:B:250:SER:HB3	1:B:253:VAL:HB	1.33	1.10
1:C:50:ILE:H	1:D:320:LYS:CD	1.63	1.10
1:C:68:ILE:HD13	1:C:92:THR:HB	1.15	1.10
1:D:68:ILE:HD13	1:D:92:THR:HB	1.14	1.10
1:I:168:ASN:CB	1:J:71:GLN:HE21	1.49	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:278:GLN:CG	1:J:218:THR:HB	1.75	1.10
1:K:50:ILE:HG23	1:O:246:ILE:HD12	1.24	1.10
1:M:68:ILE:HD13	1:M:92:THR:HB	1.14	1.10
1:N:192:CYS:CB	1:O:79:THR:CG2	2.26	1.10
1:A:46:GLU:CB	1:B:324:ALA:HB1	1.61	1.10
1:A:250:SER:HB3	1:A:253:VAL:HB	1.33	1.10
1:B:49:TYR:CD1	1:C:320:LYS:HD2	1.87	1.10
1:B:248:THR:N	1:F:52:ILE:HD12	1.67	1.10
1:C:50:ILE:H	1:D:320:LYS:CG	1.54	1.10
1:E:250:SER:HB3	1:E:253:VAL:HB	1.33	1.10
1:F:250:SER:HB3	1:F:253:VAL:HB	1.33	1.10
1:I:73:VAL:HG21	1:M:240:MET:HE3	1.17	1.10
1:J:153:THR:HG21	1:J:325:LYS:HG3	1.33	1.10
1:M:250:SER:HB3	1:M:253:VAL:HB	1.33	1.10
1:N:300:TYR:CE2	1:O:225:LEU:CD2	2.25	1.10
1:O:320:LYS:CD	1:P:50:ILE:H	1.63	1.10
1:A:241:LYS:CA	1:F:165:GLU:OE2	1.98	1.10
1:A:242:LYS:N	1:F:166:GLN:OE1	1.84	1.10
1:C:241:LYS:HA	1:H:165:GLU:OE2	1.49	1.10
1:C:244:GLY:C	1:H:320:LYS:HD3	1.70	1.10
1:D:246:ILE:CD1	1:H:50:ILE:H	1.63	1.10
1:F:271:LYS:O	1:I:202:GLU:OE2	1.68	1.10
1:G:225:LEU:CD1	1:H:300:TYR:CE2	2.24	1.10
1:G:250:SER:HB3	1:G:253:VAL:HB	1.33	1.10
1:B:50:ILE:H	1:C:320:LYS:CD	1.63	1.09
1:B:68:ILE:HD13	1:B:92:THR:HB	1.14	1.09
1:B:229:GLU:CD	1:G:309:ASN:O	1.85	1.09
1:C:229:GLU:OE1	1:H:308:ASN:O	1.70	1.09
1:G:71:GLN:HE21	1:H:168:ASN:CB	1.49	1.09
1:H:153:THR:HG21	1:H:325:LYS:HG3	1.33	1.09
1:M:300:TYR:CE2	1:N:225:LEU:CD2	2.25	1.09
1:A:50:ILE:H	1:B:320:LYS:CD	1.63	1.09
1:A:68:ILE:HD13	1:A:92:THR:HB	1.14	1.09
1:F:71:GLN:HE21	1:G:168:ASN:CB	1.49	1.09
1:F:225:LEU:CD1	1:G:300:TYR:CE2	2.24	1.09
1:G:198:GLU:HG2	1:J:203:GLU:CG	1.78	1.09
1:I:153:THR:HG21	1:I:325:LYS:HG3	1.33	1.09
1:K:275:LYS:O	1:L:218:THR:OG1	1.71	1.09
1:K:300:TYR:CE2	1:L:225:LEU:CD1	2.24	1.09
1:P:219:ASP:CA	1:P:224:ASN:HB2	1.81	1.09
1:F:198:GLU:HG2	1:I:203:GLU:CG	1.83	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:250:SER:HB3	1:I:253:VAL:HB	1.33	1.09
1:J:75:ASP:HA	1:N:245:GLU:CB	1.79	1.09
1:J:168:ASN:CB	1:K:71:GLN:HE21	1.49	1.09
1:J:278:GLN:CG	1:K:218:THR:HB	1.75	1.09
1:K:170:LYS:HE2	1:L:79:THR:HA	1.27	1.09
1:N:324:ALA:HB1	1:O:46:GLU:CB	1.62	1.09
1:C:231:ALA:N	1:H:308:ASN:ND2	2.01	1.09
1:H:250:SER:HB3	1:H:253:VAL:HB	1.33	1.09
1:K:68:ILE:HD13	1:K:92:THR:HB	1.14	1.09
1:K:320:LYS:C	1:L:49:TYR:CD1	2.26	1.09
1:O:219:ASP:CA	1:O:224:ASN:HB2	1.80	1.09
1:C:47:ASP:HA	1:D:323:VAL:HG23	1.15	1.09
1:E:71:GLN:HE21	1:F:168:ASN:CB	1.49	1.09
1:E:225:LEU:CD1	1:F:300:TYR:CE2	2.24	1.09
1:F:79:THR:HA	1:G:170:LYS:HE2	1.27	1.09
1:F:120:ALA:HB2	1:I:120:ALA:HB2	1.28	1.09
1:G:153:THR:HG21	1:G:325:LYS:HG3	1.33	1.09
1:I:52:ILE:HG12	1:M:245:GLU:O	1.50	1.09
1:I:275:LYS:O	1:J:218:THR:OG1	1.71	1.09
1:J:300:TYR:CE2	1:K:225:LEU:CD1	2.24	1.09
1:J:320:LYS:C	1:K:49:TYR:CD1	2.26	1.09
1:N:320:LYS:HD2	1:O:49:TYR:CD1	1.87	1.09
1:B:46:GLU:HB2	1:C:324:ALA:HB3	1.28	1.08
1:F:197:SER:O	1:I:203:GLU:CB	1.99	1.08
1:G:49:TYR:CB	1:H:324:ALA:HB2	1.82	1.08
1:L:231:ALA:HB2	1:P:308:ASN:OD1	0.91	1.08
1:N:219:ASP:CA	1:N:224:ASN:HB2	1.80	1.08
1:F:198:GLU:HG2	1:I:203:GLU:CB	1.83	1.08
1:G:218:THR:HB	1:H:278:GLN:CG	1.75	1.08
1:I:300:TYR:CE2	1:J:225:LEU:CD1	2.24	1.08
1:I:320:LYS:C	1:J:49:TYR:CD1	2.26	1.08
1:J:52:ILE:CG2	1:N:247:ASP:O	1.99	1.08
1:J:250:SER:HB3	1:J:253:VAL:HB	1.33	1.08
1:K:278:GLN:CG	1:L:218:THR:HB	1.75	1.08
1:M:219:ASP:CA	1:M:224:ASN:HB2	1.80	1.08
1:E:49:TYR:CB	1:F:324:ALA:HB2	1.82	1.08
1:E:218:THR:OG1	1:F:275:LYS:O	1.71	1.08
1:F:153:THR:HG21	1:F:325:LYS:HG3	1.33	1.08
1:G:226:ILE:H	1:H:303:ASN:HB2	1.10	1.08
1:J:308:ASN:ND2	1:O:232:GLU:H	1.49	1.08
1:K:324:ALA:HB2	1:L:49:TYR:CB	1.82	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:49:TYR:CD1	1:D:320:LYS:HD2	1.87	1.08
1:C:246:ILE:HD11	1:G:50:ILE:N	1.50	1.08
1:I:324:ALA:HB2	1:J:49:TYR:CB	1.82	1.08
1:K:168:ASN:CB	1:L:71:GLN:HE21	1.49	1.08
1:M:323:VAL:HG23	1:N:47:ASP:HA	1.15	1.08
1:A:49:TYR:CD1	1:B:320:LYS:HD2	1.87	1.08
1:A:230:GLN:HB2	1:F:307:THR:C	1.75	1.08
1:E:49:TYR:CD1	1:F:320:LYS:C	2.26	1.08
1:G:49:TYR:CD1	1:H:320:LYS:C	2.26	1.08
1:J:324:ALA:HB2	1:K:49:TYR:CB	1.82	1.08
1:K:50:ILE:O	1:O:246:ILE:HA	0.91	1.08
1:K:165:GLU:HA	1:P:241:LYS:O	1.48	1.08
1:L:52:ILE:CD1	1:P:247:ASP:O	2.02	1.08
1:L:68:ILE:HD13	1:L:92:THR:HB	1.14	1.08
1:N:320:LYS:CG	1:O:50:ILE:H	1.54	1.08
1:O:26:LYS:HB2	1:O:97:VAL:HG13	1.36	1.08
1:P:26:LYS:HB2	1:P:97:VAL:HG13	1.36	1.08
1:C:242:LYS:CA	1:H:166:GLN:HB3	1.81	1.07
1:E:153:THR:HG21	1:E:325:LYS:HG3	1.33	1.07
1:F:218:THR:HB	1:G:278:GLN:CG	1.75	1.07
1:J:73:VAL:CB	1:N:240:MET:CE	2.32	1.07
1:J:276:LEU:O	1:K:224:ASN:O	1.64	1.07
1:N:26:LYS:HB2	1:N:97:VAL:HG13	1.36	1.07
1:O:320:LYS:HD2	1:P:49:TYR:CD1	1.87	1.07
1:O:323:VAL:HG23	1:P:47:ASP:HA	1.15	1.07
1:A:50:ILE:H	1:B:320:LYS:CG	1.54	1.07
1:A:246:ILE:HD12	1:F:320:LYS:CA	1.83	1.07
1:D:26:LYS:HB2	1:D:97:VAL:HG13	1.36	1.07
1:H:202:GLU:OE2	1:K:271:LYS:O	1.70	1.07
1:K:50:ILE:C	1:O:246:ILE:HA	1.73	1.07
1:K:250:SER:HB3	1:K:253:VAL:HB	1.33	1.07
1:B:47:ASP:HA	1:C:323:VAL:HG23	1.15	1.07
1:C:218:THR:HG1	1:D:277:ASP:HB3	0.95	1.07
1:F:49:TYR:CB	1:G:324:ALA:HB2	1.82	1.07
1:F:49:TYR:CD1	1:G:320:LYS:C	2.26	1.07
1:K:245:GLU:OE2	1:P:51:ASP:O	1.73	1.07
1:M:26:LYS:HB2	1:M:97:VAL:HG13	1.36	1.07
1:A:227:THR:CG2	1:B:300:TYR:HA	1.77	1.07
1:A:241:LYS:NZ	1:F:305:ILE:HG22	1.70	1.07
1:A:252:THR:HG21	1:E:53:GLU:HG3	1.30	1.07
1:G:197:SER:HB3	1:J:183:ASN:HD21	1.13	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:275:LYS:O	1:K:218:THR:OG1	1.70	1.07
1:A:26:LYS:HB2	1:A:97:VAL:HG13	1.36	1.07
1:C:46:GLU:HA	1:D:324:ALA:CB	1.83	1.07
1:E:218:THR:HB	1:F:278:GLN:CG	1.75	1.07
1:G:218:THR:OG1	1:H:275:LYS:O	1.71	1.07
1:G:218:THR:CB	1:H:278:GLN:OE1	2.03	1.07
1:I:323:VAL:CG1	1:N:246:ILE:CD1	2.33	1.07
1:K:278:GLN:OE1	1:L:218:THR:CB	2.03	1.07
1:O:324:ALA:HB1	1:P:46:GLU:CB	1.61	1.07
1:C:26:LYS:HB2	1:C:97:VAL:HG13	1.36	1.06
1:G:199:ARG:O	1:J:201:ILE:HG23	1.51	1.06
1:K:320:LYS:CA	1:P:246:ILE:HD12	1.84	1.06
1:L:250:SER:HB3	1:L:253:VAL:HB	1.33	1.06
1:A:153:THR:HG21	1:A:325:LYS:HG3	1.33	1.06
1:B:227:THR:CG2	1:C:300:TYR:HA	1.77	1.06
1:F:52:ILE:H	1:F:74:GLU:HG2	1.21	1.06
1:F:218:THR:CB	1:G:278:GLN:OE1	2.03	1.06
1:L:52:ILE:H	1:L:74:GLU:HG2	1.21	1.06
1:M:153:THR:HG21	1:M:325:LYS:HG3	1.33	1.06
1:M:324:ALA:HB3	1:N:46:GLU:HB2	1.28	1.06
1:N:153:THR:HG21	1:N:325:LYS:HG3	1.33	1.06
1:A:95:THR:HG22	1:A:136:ILE:HD13	1.37	1.06
1:B:153:THR:HG21	1:B:325:LYS:HG3	1.33	1.06
1:D:95:THR:HG22	1:D:136:ILE:HD13	1.36	1.06
1:F:197:SER:HB3	1:I:183:ASN:ND2	1.68	1.06
1:I:278:GLN:OE1	1:J:218:THR:CB	2.03	1.06
1:K:52:ILE:HD12	1:O:248:THR:N	1.70	1.06
1:K:309:ASN:O	1:P:229:GLU:CD	1.85	1.06
1:O:153:THR:HG21	1:O:325:LYS:HG3	1.33	1.06
1:B:26:LYS:HB2	1:B:97:VAL:HG13	1.36	1.06
1:B:95:THR:HG22	1:B:136:ILE:HD13	1.37	1.06
1:C:46:GLU:HB2	1:D:324:ALA:HB3	1.28	1.06
1:C:95:THR:HG22	1:C:136:ILE:HD13	1.37	1.06
1:C:153:THR:HG21	1:C:325:LYS:HG3	1.33	1.06
1:G:52:ILE:H	1:G:74:GLU:HG2	1.21	1.06
1:G:179:PHE:HB3	1:G:288:THR:HB	1.38	1.06
1:G:226:ILE:N	1:H:303:ASN:HB2	1.57	1.06
1:H:211:ILE:HA	1:H:220:LEU:HD23	1.37	1.06
1:H:272:ARG:O	1:K:203:GLU:HB3	1.53	1.06
1:I:52:ILE:CG2	1:M:247:ASP:O	2.04	1.06
1:I:300:TYR:CD2	1:J:225:LEU:HB3	1.91	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:323:VAL:CG1	1:N:246:ILE:HD13	1.58	1.06
1:J:179:PHE:HB3	1:J:288:THR:HB	1.38	1.06
1:K:52:ILE:CG2	1:O:247:ASP:O	2.02	1.06
1:B:246:ILE:HD13	1:G:323:VAL:HG11	1.31	1.06
1:B:246:ILE:HA	1:F:50:ILE:O	0.89	1.06
1:C:219:ASP:OD1	1:D:275:LYS:NZ	1.88	1.06
1:C:227:THR:CG2	1:D:300:TYR:HA	1.77	1.06
1:F:179:PHE:HB3	1:F:288:THR:HB	1.38	1.06
1:F:218:THR:OG1	1:G:275:LYS:O	1.70	1.06
1:G:201:ILE:HG23	1:J:199:ARG:O	1.51	1.06
1:I:179:PHE:HB3	1:I:288:THR:HB	1.38	1.06
1:K:179:PHE:HB3	1:K:288:THR:HB	1.38	1.06
1:O:275:LYS:NZ	1:P:219:ASP:OD1	1.88	1.06
1:P:153:THR:HG21	1:P:325:LYS:HG3	1.33	1.06
1:B:229:GLU:OE2	1:G:309:ASN:O	1.74	1.05
1:E:179:PHE:HB3	1:E:288:THR:HB	1.38	1.05
1:E:218:THR:CB	1:F:278:GLN:OE1	2.03	1.05
1:F:225:LEU:HB3	1:G:300:TYR:CD2	1.91	1.05
1:G:71:GLN:CD	1:H:168:ASN:ND2	1.99	1.05
1:H:179:PHE:HB3	1:H:288:THR:HB	1.38	1.05
1:J:75:ASP:N	1:N:245:GLU:CB	2.19	1.05
1:J:231:ALA:CB	1:N:308:ASN:OD1	2.02	1.05
1:J:278:GLN:OE1	1:K:218:THR:CB	2.03	1.05
1:J:300:TYR:CD2	1:K:225:LEU:HB3	1.91	1.05
1:M:324:ALA:HB1	1:N:46:GLU:HB2	1.15	1.05
1:N:277:ASP:HB3	1:O:218:THR:HG1	1.13	1.05
1:B:240:MET:CE	1:F:73:VAL:HB	1.79	1.05
1:C:52:ILE:H	1:C:74:GLU:HG2	1.21	1.05
1:D:153:THR:HG21	1:D:325:LYS:HG3	1.33	1.05
1:E:47:ASP:CA	1:F:323:VAL:O	2.05	1.05
1:F:47:ASP:CA	1:G:323:VAL:O	2.05	1.05
1:F:198:GLU:HA	1:I:203:GLU:HB2	1.35	1.05
1:H:183:ASN:HD21	1:K:197:SER:HB3	0.93	1.05
1:J:52:ILE:HG23	1:N:248:THR:HA	1.38	1.05
1:J:73:VAL:HG23	1:N:240:MET:HE2	1.22	1.05
1:K:211:ILE:HA	1:K:220:LEU:HD23	1.37	1.05
1:L:50:ILE:HG23	1:P:246:ILE:HD12	1.29	1.05
1:L:179:PHE:HB3	1:L:288:THR:HB	1.38	1.05
1:N:324:ALA:HB1	1:O:46:GLU:HB2	1.15	1.05
1:O:324:ALA:CB	1:P:46:GLU:HA	1.83	1.05
1:P:95:THR:HG22	1:P:136:ILE:HD13	1.37	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:224:ASN:O	1:F:276:LEU:O	1.63	1.05
1:I:323:VAL:CG1	1:J:50:ILE:HG23	1.56	1.05
1:I:323:VAL:O	1:J:47:ASP:CA	2.05	1.05
1:J:211:ILE:HA	1:J:220:LEU:HD23	1.37	1.05
1:M:275:LYS:NZ	1:N:219:ASP:OD1	1.89	1.05
1:A:219:ASP:OD1	1:B:275:LYS:NZ	1.89	1.05
1:A:248:THR:HA	1:E:52:ILE:CG2	1.87	1.05
1:C:246:ILE:HD11	1:H:323:VAL:HG22	1.09	1.05
1:G:95:THR:HG22	1:G:136:ILE:HD13	1.37	1.05
1:G:197:SER:O	1:J:203:GLU:HB2	1.55	1.05
1:H:203:GLU:CB	1:K:198:GLU:HG2	1.87	1.05
1:K:52:ILE:H	1:K:74:GLU:HG2	1.21	1.05
1:K:300:TYR:CD2	1:L:225:LEU:HB3	1.91	1.05
1:N:275:LYS:NZ	1:O:219:ASP:OD1	1.89	1.05
1:O:95:THR:HG22	1:O:136:ILE:HD13	1.37	1.05
1:O:277:ASP:CB	1:P:218:THR:HG1	1.68	1.05
1:B:240:MET:HE2	1:F:73:VAL:HG23	1.34	1.05
1:D:245:GLU:OE2	1:H:76:SER:HA	1.56	1.05
1:F:49:TYR:CE1	1:G:320:LYS:CB	2.39	1.05
1:F:95:THR:HG22	1:F:136:ILE:HD13	1.37	1.05
1:F:272:ARG:CG	1:I:202:GLU:HA	1.86	1.05
1:H:95:THR:HG22	1:H:136:ILE:HD13	1.37	1.05
1:I:52:ILE:H	1:I:74:GLU:HG2	1.21	1.05
1:K:320:LYS:CB	1:L:49:TYR:CE1	2.39	1.05
1:M:320:LYS:HD2	1:N:49:TYR:CD1	1.87	1.05
1:N:324:ALA:CB	1:O:46:GLU:HA	1.82	1.05
1:O:300:TYR:HA	1:P:227:THR:CG2	1.77	1.05
1:P:211:ILE:HA	1:P:220:LEU:HD23	1.37	1.05
1:B:219:ASP:OD1	1:C:275:LYS:NZ	1.89	1.04
1:E:211:ILE:HA	1:E:220:LEU:HD23	1.37	1.04
1:F:197:SER:O	1:I:203:GLU:CA	2.04	1.04
1:F:203:GLU:HB3	1:I:272:ARG:O	1.53	1.04
1:G:46:GLU:HG2	1:H:324:ALA:HB1	1.34	1.04
1:L:37:ILE:HG13	1:L:312:TRP:CZ2	1.92	1.04
1:O:192:CYS:CB	1:P:79:THR:CG2	2.27	1.04
1:O:211:ILE:HA	1:O:220:LEU:HD23	1.37	1.04
1:O:324:ALA:HB1	1:P:46:GLU:HB2	1.15	1.04
1:A:46:GLU:HB2	1:B:324:ALA:HB1	1.15	1.04
1:A:211:ILE:HA	1:A:220:LEU:HD23	1.37	1.04
1:B:246:ILE:CD1	1:F:50:ILE:CG2	2.01	1.04
1:B:247:ASP:O	1:F:52:ILE:CG2	2.04	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:225:LEU:HB3	1:F:300:TYR:CD2	1.91	1.04
1:F:271:LYS:NZ	1:I:265:ALA:HA	1.71	1.04
1:G:47:ASP:CA	1:H:323:VAL:O	2.05	1.04
1:J:320:LYS:CB	1:K:49:TYR:CE1	2.39	1.04
1:K:37:ILE:HG13	1:K:312:TRP:CZ2	1.92	1.04
1:K:276:LEU:O	1:L:224:ASN:O	1.63	1.04
1:M:37:ILE:HG13	1:M:312:TRP:CZ2	1.92	1.04
1:N:37:ILE:HG13	1:N:312:TRP:CZ2	1.93	1.04
1:N:95:THR:HG22	1:N:136:ILE:HD13	1.37	1.04
1:B:245:GLU:HB3	1:F:75:ASP:HA	1.20	1.04
1:C:246:ILE:HD11	1:H:323:VAL:CG2	1.85	1.04
1:E:52:ILE:H	1:E:74:GLU:HG2	1.21	1.04
1:F:201:ILE:HG23	1:I:199:ARG:O	1.52	1.04
1:H:183:ASN:ND2	1:K:197:SER:HB3	1.71	1.04
1:I:320:LYS:CB	1:J:49:TYR:CE1	2.39	1.04
1:O:37:ILE:HG13	1:O:312:TRP:CZ2	1.92	1.04
1:E:26:LYS:HB2	1:E:97:VAL:HG13	1.36	1.04
1:E:37:ILE:HG13	1:E:312:TRP:CZ2	1.93	1.04
1:F:26:LYS:HB2	1:F:97:VAL:HG13	1.36	1.04
1:F:71:GLN:CD	1:G:168:ASN:ND2	1.99	1.04
1:G:26:LYS:HB2	1:G:97:VAL:HG13	1.36	1.04
1:G:49:TYR:CE1	1:H:320:LYS:CB	2.39	1.04
1:G:225:LEU:HB3	1:H:300:TYR:CD2	1.91	1.04
1:H:37:ILE:HG13	1:H:312:TRP:CZ2	1.93	1.04
1:H:198:GLU:HG3	1:K:203:GLU:CG	1.81	1.04
1:H:271:LYS:HE3	1:K:202:GLU:HG3	1.39	1.04
1:J:37:ILE:HG13	1:J:312:TRP:CZ2	1.92	1.04
1:J:323:VAL:CG1	1:K:50:ILE:HG23	1.56	1.04
1:J:323:VAL:O	1:K:47:ASP:CA	2.05	1.04
1:A:246:ILE:HD12	1:E:50:ILE:HG23	1.35	1.04
1:B:37:ILE:HG13	1:B:312:TRP:CZ2	1.92	1.04
1:B:52:ILE:H	1:B:74:GLU:HG2	1.20	1.04
1:C:37:ILE:HG13	1:C:312:TRP:CZ2	1.93	1.04
1:D:20:LYS:HG3	1:D:37:ILE:HG12	1.40	1.04
1:D:37:ILE:HG13	1:D:312:TRP:CZ2	1.93	1.04
1:E:71:GLN:CD	1:F:168:ASN:ND2	1.99	1.04
1:E:95:THR:HG22	1:E:136:ILE:HD13	1.37	1.04
1:F:46:GLU:HG2	1:G:324:ALA:HB1	1.34	1.04
1:G:203:GLU:HB2	1:J:197:SER:O	1.54	1.04
1:G:211:ILE:HA	1:G:220:LEU:HD23	1.37	1.04
1:G:224:ASN:O	1:H:276:LEU:O	1.64	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:324:ALA:HB1	1:J:46:GLU:HG2	1.34	1.04
1:J:278:GLN:CD	1:K:218:THR:CB	2.24	1.04
1:K:323:VAL:O	1:L:47:ASP:CA	2.05	1.04
1:L:211:ILE:HA	1:L:220:LEU:HD23	1.37	1.04
1:M:95:THR:HG22	1:M:136:ILE:HD13	1.36	1.04
1:N:211:ILE:HA	1:N:220:LEU:HD23	1.37	1.04
1:N:300:TYR:HA	1:O:227:THR:CG2	1.77	1.04
1:A:37:ILE:HG13	1:A:312:TRP:CZ2	1.93	1.03
1:B:46:GLU:HA	1:C:324:ALA:CB	1.83	1.03
1:C:218:THR:HG1	1:D:277:ASP:CB	1.68	1.03
1:E:49:TYR:CE1	1:F:320:LYS:CB	2.39	1.03
1:F:197:SER:CB	1:I:183:ASN:HD21	1.70	1.03
1:F:272:ARG:NH1	1:I:201:ILE:HG13	1.68	1.03
1:H:201:ILE:HG13	1:K:272:ARG:NH1	1.69	1.03
1:J:165:GLU:CA	1:O:241:LYS:O	2.01	1.03
1:M:169:PHE:C	1:N:79:THR:HB	1.75	1.03
1:B:211:ILE:HA	1:B:220:LEU:HD23	1.37	1.03
1:B:229:GLU:N	1:G:308:ASN:HB3	1.38	1.03
1:D:211:ILE:HA	1:D:220:LEU:HD23	1.37	1.03
1:E:226:ILE:N	1:F:303:ASN:HB2	1.57	1.03
1:F:37:ILE:HG13	1:F:312:TRP:CZ2	1.93	1.03
1:F:226:ILE:N	1:G:303:ASN:HB2	1.57	1.03
1:H:52:ILE:H	1:H:74:GLU:HG2	1.21	1.03
1:I:37:ILE:HG13	1:I:312:TRP:CZ2	1.92	1.03
1:I:211:ILE:HA	1:I:220:LEU:HD23	1.37	1.03
1:N:52:ILE:H	1:N:74:GLU:HG2	1.21	1.03
1:P:20:LYS:HG3	1:P:37:ILE:HG12	1.40	1.03
1:P:37:ILE:HG13	1:P:312:TRP:CZ2	1.93	1.03
1:B:241:LYS:O	1:G:165:GLU:CA	2.04	1.03
1:G:218:THR:CB	1:H:278:GLN:CD	2.24	1.03
1:H:199:ARG:O	1:K:201:ILE:HG23	1.55	1.03
1:I:26:LYS:HB2	1:I:97:VAL:HG13	1.36	1.03
1:K:52:ILE:CD1	1:O:247:ASP:O	2.05	1.03
1:A:79:THR:HB	1:B:169:PHE:C	1.76	1.03
1:B:218:THR:HG1	1:C:277:ASP:CB	1.69	1.03
1:C:241:LYS:O	1:H:165:GLU:CG	2.06	1.03
1:E:218:THR:CB	1:F:278:GLN:CD	2.24	1.03
1:F:198:GLU:CA	1:I:203:GLU:HB2	1.88	1.03
1:G:37:ILE:HG13	1:G:312:TRP:CZ2	1.93	1.03
1:H:26:LYS:HB2	1:H:97:VAL:HG13	1.36	1.03
1:I:95:THR:HG22	1:I:136:ILE:HD13	1.37	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:324:ALA:HB1	1:L:46:GLU:HG2	1.34	1.03
1:O:52:ILE:H	1:O:74:GLU:HG2	1.20	1.03
1:A:308:ASN:OD1	1:E:231:ALA:HB2	0.86	1.03
1:B:246:ILE:HA	1:F:50:ILE:C	1.78	1.03
1:C:241:LYS:CB	1:H:166:GLN:NE2	2.11	1.03
1:E:226:ILE:H	1:F:303:ASN:HB2	1.10	1.03
1:F:203:GLU:CB	1:I:198:GLU:HG2	1.89	1.03
1:G:198:GLU:HG2	1:J:203:GLU:CB	1.89	1.03
1:K:74:GLU:C	1:O:245:GLU:HB3	1.79	1.03
1:L:26:LYS:HB2	1:L:97:VAL:HG13	1.36	1.03
1:M:300:TYR:HA	1:N:227:THR:CG2	1.77	1.03
1:B:46:GLU:HB2	1:C:324:ALA:HB1	1.15	1.02
1:B:246:ILE:CD1	1:G:323:VAL:CG1	2.38	1.02
1:C:242:LYS:CB	1:H:166:GLN:HB3	1.89	1.02
1:E:49:TYR:CD1	1:F:320:LYS:HB3	1.93	1.02
1:G:272:ARG:NH1	1:J:201:ILE:CG1	2.15	1.02
1:I:276:LEU:O	1:J:224:ASN:O	1.63	1.02
1:J:26:LYS:HB2	1:J:97:VAL:HG13	1.36	1.02
1:K:75:ASP:HA	1:O:245:GLU:HB3	1.24	1.02
1:L:95:THR:HG22	1:L:136:ILE:HD13	1.37	1.02
1:O:20:LYS:HG3	1:O:37:ILE:HG12	1.40	1.02
1:A:241:LYS:C	1:F:166:GLN:CD	2.08	1.02
1:B:179:PHE:HB3	1:B:288:THR:HB	1.38	1.02
1:B:240:MET:HE2	1:F:73:VAL:CB	1.78	1.02
1:C:20:LYS:HG3	1:C:37:ILE:HG12	1.40	1.02
1:C:179:PHE:HB3	1:C:288:THR:HB	1.38	1.02
1:F:49:TYR:CD1	1:G:320:LYS:HB3	1.94	1.02
1:H:202:GLU:HA	1:K:272:ARG:CG	1.89	1.02
1:I:75:ASP:N	1:M:245:GLU:CB	2.21	1.02
1:I:278:GLN:HB3	1:J:218:THR:HA	1.03	1.02
1:J:95:THR:HG22	1:J:136:ILE:HD13	1.37	1.02
1:J:278:GLN:HB3	1:K:218:THR:HA	1.03	1.02
1:M:52:ILE:H	1:M:74:GLU:HG2	1.21	1.02
1:M:211:ILE:HA	1:M:220:LEU:HD23	1.37	1.02
1:M:324:ALA:CB	1:N:46:GLU:HA	1.83	1.02
1:O:131:LYS:HA	1:O:149:ILE:CD1	1.90	1.02
1:O:275:LYS:HZ1	1:P:219:ASP:CG	1.62	1.02
1:P:131:LYS:HA	1:P:149:ILE:CD1	1.90	1.02
1:A:46:GLU:HA	1:B:324:ALA:CB	1.83	1.02
1:A:52:ILE:H	1:A:74:GLU:HG2	1.20	1.02
1:A:308:ASN:CG	1:E:231:ALA:HB2	1.80	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:131:LYS:HA	1:C:149:ILE:CD1	1.90	1.02
1:D:131:LYS:HA	1:D:149:ILE:CD1	1.90	1.02
1:E:46:GLU:HG2	1:F:324:ALA:HB1	1.34	1.02
1:E:218:THR:HA	1:F:278:GLN:HB3	1.03	1.02
1:F:218:THR:HA	1:G:278:GLN:HB3	1.03	1.02
1:G:49:TYR:CD1	1:H:320:LYS:HB3	1.93	1.02
1:H:203:GLU:CA	1:K:197:SER:O	2.06	1.02
1:I:320:LYS:HA	1:N:246:ILE:HD12	1.04	1.02
1:J:324:ALA:HB1	1:K:46:GLU:HG2	1.34	1.02
1:K:278:GLN:HB3	1:L:218:THR:HA	1.03	1.02
1:L:52:ILE:CG2	1:P:247:ASP:O	2.07	1.02
1:M:179:PHE:HB3	1:M:288:THR:HB	1.38	1.02
1:N:131:LYS:HA	1:N:149:ILE:CD1	1.90	1.02
1:N:179:PHE:HB3	1:N:288:THR:HB	1.38	1.02
1:B:131:LYS:HA	1:B:149:ILE:CD1	1.90	1.02
1:D:179:PHE:HB3	1:D:288:THR:HB	1.38	1.02
1:F:197:SER:HB3	1:I:183:ASN:HD21	0.91	1.02
1:F:202:GLU:HG3	1:I:271:LYS:HE3	1.40	1.02
1:F:211:ILE:HA	1:F:220:LEU:HD23	1.37	1.02
1:H:203:GLU:CG	1:K:198:GLU:HG2	1.86	1.02
1:K:26:LYS:HB2	1:K:97:VAL:HG13	1.36	1.02
1:M:131:LYS:HA	1:M:149:ILE:CD1	1.90	1.02
1:P:52:ILE:H	1:P:74:GLU:HG2	1.20	1.02
1:A:179:PHE:HB3	1:A:288:THR:HB	1.38	1.02
1:A:246:ILE:HD12	1:F:320:LYS:HA	1.03	1.02
1:C:246:ILE:HD13	1:H:323:VAL:CG1	1.89	1.02
1:H:272:ARG:HH12	1:K:201:ILE:HG13	0.86	1.02
1:J:303:ASN:HB2	1:K:226:ILE:H	1.10	1.02
1:K:75:ASP:N	1:O:245:GLU:CB	2.21	1.02
1:K:95:THR:HG22	1:K:136:ILE:HD13	1.37	1.02
1:A:131:LYS:HA	1:A:149:ILE:CD1	1.90	1.01
1:A:231:ALA:H	1:F:308:ASN:ND2	1.53	1.01
1:A:248:THR:CA	1:E:52:ILE:HG23	1.87	1.01
1:C:211:ILE:HA	1:C:220:LEU:HD23	1.37	1.01
1:C:245:GLU:CB	1:G:75:ASP:CA	2.37	1.01
1:G:131:LYS:HA	1:G:149:ILE:CD1	1.90	1.01
1:G:203:GLU:CB	1:J:198:GLU:HG2	1.90	1.01
1:G:218:THR:HA	1:H:278:GLN:HB3	1.03	1.01
1:H:131:LYS:HA	1:H:149:ILE:CD1	1.90	1.01
1:I:320:LYS:HB3	1:J:49:TYR:CD1	1.94	1.01
1:J:165:GLU:HA	1:O:241:LYS:O	1.56	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:320:LYS:HB3	1:K:49:TYR:CD1	1.93	1.01
1:K:52:ILE:HD12	1:O:247:ASP:O	1.58	1.01
1:C:242:LYS:HB2	1:H:166:GLN:HB3	1.41	1.01
1:D:52:ILE:H	1:D:74:GLU:HG2	1.21	1.01
1:L:131:LYS:HA	1:L:149:ILE:CD1	1.90	1.01
1:O:179:PHE:HB3	1:O:288:THR:HB	1.38	1.01
1:B:79:THR:HB	1:C:169:PHE:C	1.76	1.01
1:C:79:THR:HB	1:D:169:PHE:C	1.75	1.01
1:C:246:ILE:CA	1:G:50:ILE:O	2.07	1.01
1:E:181:GLY:HA2	1:E:206:VAL:HG12	1.43	1.01
1:F:131:LYS:HA	1:F:149:ILE:CD1	1.90	1.01
1:H:183:ASN:HD21	1:K:197:SER:CB	1.73	1.01
1:I:277:ASP:O	1:J:224:ASN:HA	1.18	1.01
1:J:52:ILE:H	1:J:74:GLU:HG2	1.21	1.01
1:K:278:GLN:CD	1:L:218:THR:CB	2.24	1.01
1:K:320:LYS:HB3	1:L:49:TYR:CD1	1.93	1.01
1:L:52:ILE:HD12	1:P:247:ASP:O	1.58	1.01
1:A:20:LYS:HG3	1:A:37:ILE:HG12	1.40	1.01
1:A:246:ILE:O	1:E:52:ILE:HD13	1.58	1.01
1:C:46:GLU:HB2	1:D:324:ALA:HB1	1.15	1.01
1:C:49:TYR:C	1:D:320:LYS:HG2	1.79	1.01
1:C:308:ASN:OD1	1:G:231:ALA:CB	2.08	1.01
1:E:131:LYS:HA	1:E:149:ILE:CD1	1.90	1.01
1:F:181:GLY:HA2	1:F:206:VAL:HG12	1.43	1.01
1:I:181:GLY:HA2	1:I:206:VAL:HG12	1.43	1.01
1:J:181:GLY:HA2	1:J:206:VAL:HG12	1.43	1.01
1:K:131:LYS:HA	1:K:149:ILE:CD1	1.90	1.01
1:B:241:LYS:CA	1:G:165:GLU:OE2	2.08	1.01
1:E:211:ILE:HA	1:E:220:LEU:CD2	1.91	1.01
1:F:201:ILE:HG22	1:I:199:ARG:O	1.57	1.01
1:H:43:TYR:CE2	1:H:67:LEU:HB3	1.96	1.01
1:J:320:LYS:CA	1:O:246:ILE:HD12	1.90	1.01
1:K:181:GLY:HA2	1:K:206:VAL:HG12	1.43	1.01
1:M:20:LYS:HG3	1:M:37:ILE:HG12	1.40	1.01
1:O:320:LYS:HG2	1:P:49:TYR:C	1.79	1.01
1:P:179:PHE:HB3	1:P:288:THR:HB	1.38	1.01
1:B:49:TYR:C	1:C:320:LYS:HG2	1.79	1.00
1:G:211:ILE:HA	1:G:220:LEU:CD2	1.91	1.00
1:H:265:ALA:HA	1:K:271:LYS:NZ	1.74	1.00
1:I:50:ILE:O	1:M:246:ILE:CA	2.08	1.00
1:I:131:LYS:HA	1:I:149:ILE:CD1	1.90	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:131:LYS:HA	1:J:149:ILE:CD1	1.90	1.00
1:J:168:ASN:ND2	1:K:71:GLN:CD	1.99	1.00
1:J:211:ILE:HA	1:J:220:LEU:CD2	1.91	1.00
1:K:307:THR:O	1:P:230:GLN:HB2	1.60	1.00
1:M:320:LYS:HG2	1:N:49:TYR:C	1.79	1.00
1:N:20:LYS:HG3	1:N:37:ILE:HG12	1.40	1.00
1:B:240:MET:HE1	1:F:73:VAL:CB	1.88	1.00
1:G:181:GLY:HA2	1:G:206:VAL:HG12	1.43	1.00
1:H:181:GLY:HA2	1:H:206:VAL:HG12	1.43	1.00
1:K:43:TYR:CE2	1:K:67:LEU:HB3	1.96	1.00
1:N:320:LYS:HG2	1:O:49:TYR:C	1.79	1.00
1:P:133:ASN:HD22	1:P:148:GLU:HA	1.27	1.00
1:B:20:LYS:HG3	1:B:37:ILE:HG12	1.40	1.00
1:B:181:GLY:HA2	1:B:206:VAL:HG12	1.43	1.00
1:B:241:LYS:O	1:G:165:GLU:HG2	1.62	1.00
1:C:43:TYR:CE2	1:C:67:LEU:HB3	1.96	1.00
1:D:43:TYR:CE2	1:D:67:LEU:HB3	1.97	1.00
1:F:267:LYS:HD3	1:I:267:LYS:HD3	1.42	1.00
1:G:43:TYR:CE2	1:G:67:LEU:HB3	1.97	1.00
1:G:49:TYR:HB2	1:H:321:VAL:HA	1.43	1.00
1:H:211:ILE:HA	1:H:220:LEU:CD2	1.91	1.00
1:I:75:ASP:CA	1:M:245:GLU:HB3	1.91	1.00
1:I:165:GLU:OE2	1:N:241:LYS:HA	1.61	1.00
1:I:168:ASN:ND2	1:J:71:GLN:CD	1.99	1.00
1:K:211:ILE:HA	1:K:220:LEU:CD2	1.91	1.00
1:K:323:VAL:HG13	1:L:50:ILE:HG23	1.41	1.00
1:L:20:LYS:HG3	1:L:37:ILE:HG12	1.40	1.00
1:L:181:GLY:HA2	1:L:206:VAL:HG12	1.43	1.00
1:L:211:ILE:HA	1:L:220:LEU:CD2	1.91	1.00
1:A:181:GLY:HA2	1:A:206:VAL:HG12	1.43	1.00
1:C:241:LYS:N	1:H:166:GLN:NE2	1.88	1.00
1:E:219:ASP:CB	1:F:277:ASP:HB3	1.92	1.00
1:F:133:ASN:HD22	1:F:148:GLU:HA	1.27	1.00
1:F:203:GLU:CG	1:I:198:GLU:HG3	1.78	1.00
1:F:219:ASP:CB	1:G:277:ASP:HB3	1.92	1.00
1:F:268:LEU:HA	1:I:268:LEU:HD11	1.41	1.00
1:L:43:TYR:CE2	1:L:67:LEU:HB3	1.97	1.00
1:B:43:TYR:CE2	1:B:67:LEU:HB3	1.97	1.00
1:E:133:ASN:HD22	1:E:148:GLU:HA	1.27	1.00
1:G:219:ASP:CB	1:H:277:ASP:HB3	1.92	1.00
1:G:224:ASN:HA	1:H:277:ASP:O	1.18	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:166:GLN:CA	1:N:242:LYS:C	2.23	1.00
1:J:43:TYR:CE2	1:J:67:LEU:HB3	1.96	1.00
1:J:323:VAL:HG13	1:K:50:ILE:HG23	1.41	1.00
1:O:133:ASN:HD22	1:O:148:GLU:HA	1.27	1.00
1:A:43:TYR:CE2	1:A:67:LEU:HB3	1.96	1.00
1:B:211:ILE:HA	1:B:220:LEU:CD2	1.91	1.00
1:B:245:GLU:CB	1:F:75:ASP:N	2.24	1.00
1:B:246:ILE:HD12	1:F:50:ILE:HG23	1.37	1.00
1:C:181:GLY:HA2	1:C:206:VAL:HG12	1.43	1.00
1:E:43:TYR:CE2	1:E:67:LEU:HB3	1.97	1.00
1:F:49:TYR:HB2	1:G:321:VAL:HA	1.43	1.00
1:H:20:LYS:HG3	1:H:37:ILE:HG12	1.40	1.00
1:K:20:LYS:HG3	1:K:37:ILE:HG12	1.40	1.00
1:C:133:ASN:HD22	1:C:148:GLU:HA	1.27	1.00
1:G:20:LYS:HG3	1:G:37:ILE:HG12	1.40	1.00
1:H:199:ARG:O	1:K:201:ILE:HG22	1.60	1.00
1:A:49:TYR:C	1:B:320:LYS:HG2	1.79	0.99
1:B:246:ILE:CD1	1:G:320:LYS:CA	2.36	0.99
1:G:133:ASN:HD22	1:G:148:GLU:HA	1.27	0.99
1:K:277:ASP:HB3	1:L:219:ASP:CB	1.92	0.99
1:M:43:TYR:CE2	1:M:67:LEU:HB3	1.96	0.99
1:D:181:GLY:HA2	1:D:206:VAL:HG12	1.43	0.99
1:D:211:ILE:HA	1:D:220:LEU:CD2	1.91	0.99
1:F:50:ILE:HG23	1:G:323:VAL:HG13	1.41	0.99
1:H:271:LYS:O	1:K:204:HIS:CE1	2.15	0.99
1:K:308:ASN:ND2	1:P:232:GLU:H	1.53	0.99
1:N:43:TYR:CE2	1:N:67:LEU:HB3	1.96	0.99
1:A:224:ASN:HA	1:B:277:ASP:OD2	1.62	0.99
1:B:224:ASN:HA	1:C:277:ASP:OD2	1.62	0.99
1:C:211:ILE:HA	1:C:220:LEU:CD2	1.91	0.99
1:C:224:ASN:HA	1:D:277:ASP:OD2	1.62	0.99
1:E:50:ILE:HG23	1:F:323:VAL:HG13	1.41	0.99
1:H:198:GLU:HG2	1:K:203:GLU:CB	1.91	0.99
1:H:203:GLU:HB2	1:K:197:SER:C	1.81	0.99
1:I:211:ILE:HA	1:I:220:LEU:CD2	1.91	0.99
1:I:323:VAL:HG13	1:J:50:ILE:HG23	1.41	0.99
1:J:322:ALA:CA	1:K:48:GLY:HA2	1.93	0.99
1:C:219:ASP:CG	1:D:275:LYS:HZ1	1.66	0.99
1:J:277:ASP:HB3	1:K:219:ASP:CB	1.92	0.99
1:N:211:ILE:HA	1:N:220:LEU:CD2	1.92	0.99
1:O:43:TYR:CE2	1:O:67:LEU:HB3	1.96	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:211:ILE:HA	1:A:220:LEU:CD2	1.91	0.99
1:B:133:ASN:HD22	1:B:148:GLU:HA	1.27	0.99
1:D:246:ILE:CG1	1:H:50:ILE:H	1.76	0.99
1:F:201:ILE:HG13	1:I:272:ARG:HH12	0.85	0.99
1:F:211:ILE:HA	1:F:220:LEU:CD2	1.91	0.99
1:G:50:ILE:HG23	1:H:323:VAL:HG13	1.41	0.99
1:H:133:ASN:HD22	1:H:148:GLU:HA	1.27	0.99
1:H:268:LEU:HD11	1:K:268:LEU:HA	1.43	0.99
1:I:278:GLN:CD	1:J:218:THR:CB	2.24	0.99
1:J:277:ASP:O	1:K:224:ASN:HA	1.18	0.99
1:K:322:ALA:CA	1:L:48:GLY:HA2	1.93	0.99
1:M:181:GLY:HA2	1:M:206:VAL:HG12	1.43	0.99
1:M:192:CYS:HB3	1:N:79:THR:HG23	1.01	0.99
1:E:224:ASN:HA	1:F:277:ASP:O	1.18	0.99
1:F:43:TYR:CE2	1:F:67:LEU:HB3	1.96	0.99
1:I:43:TYR:CE2	1:I:67:LEU:HB3	1.97	0.99
1:J:20:LYS:HG3	1:J:37:ILE:HG12	1.40	0.99
1:N:192:CYS:HB3	1:O:79:THR:HG23	1.01	0.99
1:A:218:THR:HG1	1:B:277:ASP:CB	1.74	0.99
1:F:49:TYR:O	1:G:324:ALA:N	1.96	0.99
1:H:203:GLU:HB2	1:K:198:GLU:HA	1.39	0.99
1:I:321:VAL:HA	1:J:49:TYR:HB2	1.43	0.99
1:B:240:MET:CE	1:F:73:VAL:HG23	1.84	0.99
1:I:277:ASP:HB3	1:J:219:ASP:CB	1.92	0.99
1:M:211:ILE:HA	1:M:220:LEU:CD2	1.91	0.99
1:M:277:ASP:CB	1:N:218:THR:HG1	1.72	0.99
1:N:169:PHE:C	1:O:79:THR:HB	1.75	0.99
1:O:211:ILE:HA	1:O:220:LEU:CD2	1.91	0.99
1:F:225:LEU:HB3	1:G:300:TYR:HD2	1.26	0.99
1:G:274:PHE:HD1	1:J:204:HIS:NE2	1.54	0.99
1:H:203:GLU:HB2	1:K:198:GLU:CA	1.93	0.99
1:I:278:GLN:CB	1:J:218:THR:HA	1.93	0.99
1:I:322:ALA:CA	1:J:48:GLY:HA2	1.93	0.99
1:O:192:CYS:HB3	1:P:79:THR:HG23	1.01	0.99
1:I:324:ALA:N	1:J:49:TYR:O	1.96	0.98
1:J:278:GLN:CB	1:K:218:THR:HA	1.93	0.98
1:N:181:GLY:HA2	1:N:206:VAL:HG12	1.43	0.98
1:P:43:TYR:CE2	1:P:67:LEU:HB3	1.96	0.98
1:C:240:MET:HE2	1:G:73:VAL:CG2	1.91	0.98
1:C:246:ILE:HD11	1:H:320:LYS:HA	1.43	0.98
1:E:20:LYS:HG3	1:E:37:ILE:HG12	1.40	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:324:ALA:N	1:L:49:TYR:O	1.96	0.98
1:P:211:ILE:HA	1:P:220:LEU:CD2	1.92	0.98
1:E:49:TYR:O	1:F:324:ALA:N	1.96	0.98
1:E:49:TYR:HB2	1:F:321:VAL:HA	1.43	0.98
1:F:197:SER:C	1:I:203:GLU:HB2	1.82	0.98
1:G:218:THR:HG1	1:H:278:GLN:HG2	1.19	0.98
1:H:267:LYS:HD3	1:K:267:LYS:HD3	1.45	0.98
1:J:309:ASN:O	1:O:229:GLU:CD	1.95	0.98
1:O:277:ASP:OD2	1:P:224:ASN:HA	1.62	0.98
1:G:49:TYR:O	1:H:324:ALA:N	1.96	0.98
1:J:320:LYS:HA	1:O:246:ILE:HD12	0.99	0.98
1:K:165:GLU:OE2	1:P:241:LYS:CA	2.10	0.98
1:K:168:ASN:ND2	1:L:71:GLN:CD	1.99	0.98
1:K:278:GLN:CB	1:L:218:THR:HA	1.93	0.98
1:E:48:GLY:HA2	1:F:322:ALA:CA	1.93	0.98
1:F:224:ASN:O	1:G:276:LEU:O	1.64	0.98
1:H:271:LYS:HG2	1:K:202:GLU:HG3	1.46	0.98
1:K:277:ASP:O	1:L:224:ASN:HA	1.18	0.98
1:O:275:LYS:NZ	1:P:219:ASP:CG	2.17	0.98
1:A:244:GLY:N	1:F:320:LYS:HZ2	1.42	0.98
1:E:218:THR:HA	1:F:278:GLN:CB	1.93	0.98
1:G:48:GLY:HA2	1:H:322:ALA:CA	1.93	0.98
1:G:202:GLU:HG3	1:J:271:LYS:HE3	1.44	0.98
1:I:20:LYS:HG3	1:I:37:ILE:HG12	1.40	0.98
1:L:75:ASP:HA	1:P:245:GLU:HB3	1.17	0.98
1:M:133:ASN:HD22	1:M:148:GLU:HA	1.27	0.98
1:N:277:ASP:OD2	1:O:224:ASN:HA	1.62	0.98
1:O:181:GLY:HA2	1:O:206:VAL:HG12	1.43	0.98
1:A:227:THR:HG23	1:B:300:TYR:C	1.84	0.98
1:F:20:LYS:HG3	1:F:37:ILE:HG12	1.40	0.98
1:G:218:THR:HA	1:H:278:GLN:CB	1.93	0.98
1:G:267:LYS:HD3	1:J:267:LYS:HD3	1.45	0.98
1:K:219:ASP:HB3	1:K:224:ASN:HD22	1.29	0.98
1:L:75:ASP:N	1:P:245:GLU:CB	2.25	0.98
1:B:219:ASP:HB3	1:B:224:ASN:HD22	1.29	0.98
1:D:133:ASN:HD22	1:D:148:GLU:HA	1.27	0.98
1:F:218:THR:CB	1:G:278:GLN:CD	2.24	0.98
1:F:218:THR:HA	1:G:278:GLN:CB	1.93	0.98
1:F:224:ASN:HA	1:G:277:ASP:O	1.18	0.98
1:N:275:LYS:NZ	1:O:219:ASP:CG	2.17	0.98
1:A:79:THR:HG23	1:B:192:CYS:HB3	1.01	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:219:ASP:CG	1:B:275:LYS:NZ	2.17	0.98
1:C:246:ILE:CD1	1:H:323:VAL:HG21	1.93	0.98
1:F:202:GLU:HG3	1:I:271:LYS:HG2	1.45	0.98
1:G:198:GLU:HA	1:J:203:GLU:HB2	1.42	0.98
1:A:219:ASP:CG	1:B:275:LYS:HZ1	1.67	0.98
1:A:229:GLU:OE2	1:F:309:ASN:O	1.81	0.98
1:F:198:GLU:HG2	1:I:203:GLU:HB3	1.43	0.98
1:J:219:ASP:HB3	1:J:224:ASN:HD22	1.29	0.98
1:J:278:GLN:CB	1:K:218:THR:CB	2.41	0.98
1:C:219:ASP:HB3	1:C:224:ASN:HD22	1.29	0.97
1:E:218:THR:CB	1:F:278:GLN:CB	2.41	0.97
1:F:204:HIS:CE1	1:I:271:LYS:O	2.17	0.97
1:F:218:THR:HG1	1:G:278:GLN:HG2	1.19	0.97
1:F:219:ASP:HB3	1:F:224:ASN:HD22	1.29	0.97
1:J:170:LYS:CE	1:K:79:THR:HA	1.94	0.97
1:K:75:ASP:CA	1:O:245:GLU:CG	2.27	0.97
1:L:219:ASP:HB3	1:L:224:ASN:HD22	1.29	0.97
1:N:133:ASN:HD22	1:N:148:GLU:HA	1.27	0.97
1:O:163:PHE:O	1:P:49:TYR:CE1	2.17	0.97
1:B:227:THR:HG23	1:C:300:TYR:C	1.84	0.97
1:C:49:TYR:CE1	1:D:163:PHE:O	2.17	0.97
1:F:47:ASP:C	1:G:323:VAL:C	2.23	0.97
1:G:47:ASP:C	1:H:323:VAL:C	2.23	0.97
1:G:203:GLU:HB2	1:J:198:GLU:HA	1.42	0.97
1:I:52:ILE:HG21	1:M:247:ASP:O	1.64	0.97
1:I:323:VAL:C	1:J:47:ASP:C	2.23	0.97
1:L:52:ILE:HA	1:P:248:THR:HG22	1.45	0.97
1:M:275:LYS:NZ	1:N:219:ASP:CG	2.17	0.97
1:N:163:PHE:O	1:O:49:TYR:CE1	2.17	0.97
1:O:169:PHE:C	1:P:79:THR:HB	1.75	0.97
1:C:219:ASP:CG	1:D:275:LYS:NZ	2.17	0.97
1:D:248:THR:HG22	1:H:52:ILE:HG23	1.43	0.97
1:G:272:ARG:CG	1:J:202:GLU:HA	1.95	0.97
1:I:308:ASN:ND2	1:N:230:GLN:C	2.17	0.97
1:J:52:ILE:HG12	1:N:245:GLU:O	1.63	0.97
1:M:277:ASP:OD2	1:N:224:ASN:HA	1.62	0.97
1:A:219:ASP:HB3	1:A:224:ASN:HD22	1.29	0.97
1:B:241:LYS:O	1:G:165:GLU:CG	2.12	0.97
1:G:219:ASP:HB3	1:G:224:ASN:HD22	1.29	0.97
1:I:170:LYS:CE	1:J:79:THR:HA	1.94	0.97
1:J:323:VAL:C	1:K:47:ASP:C	2.23	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:323:VAL:C	1:L:47:ASP:C	2.23	0.97
1:A:49:TYR:CE1	1:B:163:PHE:O	2.17	0.97
1:B:79:THR:HG23	1:C:192:CYS:HB3	1.01	0.97
1:E:47:ASP:C	1:F:323:VAL:C	2.23	0.97
1:F:226:ILE:H	1:G:303:ASN:HB2	1.10	0.97
1:J:324:ALA:N	1:K:49:TYR:O	1.96	0.97
1:B:219:ASP:CG	1:C:275:LYS:NZ	2.17	0.97
1:C:227:THR:HG23	1:D:300:TYR:C	1.84	0.97
1:D:219:ASP:HB3	1:D:224:ASN:HD22	1.29	0.97
1:F:203:GLU:HB2	1:I:198:GLU:HA	1.44	0.97
1:J:321:VAL:HA	1:K:49:TYR:HB2	1.43	0.97
1:L:52:ILE:HG13	1:P:247:ASP:O	1.59	0.97
1:P:181:GLY:HA2	1:P:206:VAL:HG12	1.43	0.97
1:E:219:ASP:HB3	1:E:224:ASN:HD22	1.29	0.97
1:A:133:ASN:HD22	1:A:148:GLU:HA	1.27	0.97
1:G:109:VAL:HB	1:G:322:ALA:HB2	1.47	0.97
1:G:202:GLU:HA	1:J:272:ARG:CG	1.95	0.97
1:K:321:VAL:HA	1:L:49:TYR:HB2	1.43	0.97
1:A:227:THR:HG23	1:B:300:TYR:HA	0.97	0.97
1:F:48:GLY:HA2	1:G:322:ALA:CA	1.93	0.97
1:L:133:ASN:HD22	1:L:148:GLU:HA	1.27	0.97
1:O:219:ASP:HB3	1:O:224:ASN:HD22	1.29	0.97
1:O:300:TYR:C	1:P:227:THR:HG23	1.84	0.97
1:P:219:ASP:HB3	1:P:224:ASN:HD22	1.29	0.97
1:B:227:THR:HG23	1:C:300:TYR:HA	0.97	0.97
1:B:242:LYS:C	1:G:166:GLN:CA	2.25	0.97
1:C:227:THR:HG23	1:D:300:TYR:HA	0.97	0.97
1:C:246:ILE:HD13	1:H:323:VAL:HG11	1.47	0.97
1:E:79:THR:HA	1:F:170:LYS:CE	1.94	0.97
1:H:203:GLU:OE1	1:K:274:PHE:CZ	2.18	0.97
1:J:245:GLU:OE2	1:O:51:ASP:O	1.83	0.97
1:K:170:LYS:CE	1:L:79:THR:HA	1.94	0.97
1:M:300:TYR:C	1:N:227:THR:HG23	1.84	0.97
1:B:49:TYR:CE1	1:C:163:PHE:O	2.17	0.96
1:G:79:THR:HA	1:H:170:LYS:CE	1.94	0.96
1:H:109:VAL:HB	1:H:322:ALA:HB2	1.47	0.96
1:M:163:PHE:O	1:N:49:TYR:CE1	2.17	0.96
1:O:300:TYR:HA	1:P:227:THR:HG23	0.97	0.96
1:C:79:THR:HG23	1:D:192:CYS:HB3	1.01	0.96
1:C:245:GLU:HB3	1:G:74:GLU:C	1.84	0.96
1:D:109:VAL:HB	1:D:322:ALA:HB2	1.47	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:246:ILE:HD11	1:H:50:ILE:N	1.77	0.96
1:E:109:VAL:HB	1:E:322:ALA:HB2	1.47	0.96
1:F:79:THR:HA	1:G:170:LYS:CE	1.94	0.96
1:F:109:VAL:HB	1:F:322:ALA:HB2	1.47	0.96
1:G:218:THR:CB	1:H:278:GLN:CB	2.41	0.96
1:I:219:ASP:HB3	1:I:224:ASN:HD22	1.29	0.96
1:B:247:ASP:O	1:F:52:ILE:CD1	2.10	0.96
1:C:246:ILE:CD1	1:G:50:ILE:CG2	2.01	0.96
1:J:300:TYR:HD2	1:K:225:LEU:HB3	1.26	0.96
1:K:133:ASN:HD22	1:K:148:GLU:HA	1.27	0.96
1:N:300:TYR:HA	1:O:227:THR:HG23	0.97	0.96
1:O:105:LYS:HD2	1:O:148:GLU:HB2	1.47	0.96
1:B:248:THR:HG22	1:F:52:ILE:HA	1.45	0.96
1:C:109:VAL:HB	1:C:322:ALA:HB2	1.47	0.96
1:G:225:LEU:HB3	1:H:300:TYR:HD2	1.26	0.96
1:N:105:LYS:HD2	1:N:148:GLU:HB2	1.48	0.96
1:N:219:ASP:HB3	1:N:224:ASN:HD22	1.29	0.96
1:N:275:LYS:HZ1	1:O:219:ASP:CG	1.69	0.96
1:N:300:TYR:C	1:O:227:THR:HG23	1.84	0.96
1:P:105:LYS:HD2	1:P:148:GLU:HB2	1.48	0.96
1:C:247:ASP:O	1:G:52:ILE:HG21	1.65	0.96
1:L:74:GLU:C	1:P:245:GLU:HB3	1.86	0.96
1:M:105:LYS:HD2	1:M:148:GLU:HB2	1.48	0.96
1:M:300:TYR:HA	1:N:227:THR:HG23	0.97	0.96
1:B:109:VAL:HB	1:B:322:ALA:HB2	1.47	0.96
1:B:245:GLU:CG	1:F:75:ASP:CA	2.33	0.96
1:H:219:ASP:HB3	1:H:224:ASN:HD22	1.29	0.96
1:L:105:LYS:HD2	1:L:148:GLU:HB2	1.48	0.96
1:L:109:VAL:HB	1:L:322:ALA:HB2	1.47	0.96
1:G:197:SER:O	1:J:203:GLU:CB	2.14	0.96
1:G:203:GLU:CB	1:J:197:SER:O	2.13	0.96
1:G:271:LYS:HE3	1:J:202:GLU:HG3	1.45	0.96
1:A:27:LYS:HE2	1:A:35:ARG:HG2	1.48	0.96
1:B:247:ASP:O	1:F:52:ILE:HG13	1.62	0.96
1:C:248:THR:HA	1:G:52:ILE:HG23	1.47	0.96
1:D:246:ILE:HD11	1:H:50:ILE:H	1.26	0.96
1:I:52:ILE:CG1	1:M:245:GLU:O	2.13	0.96
1:A:109:VAL:HB	1:A:322:ALA:HB2	1.47	0.96
1:A:232:GLU:N	1:F:308:ASN:ND2	2.14	0.96
1:K:105:LYS:HD2	1:K:148:GLU:HB2	1.48	0.96
1:B:241:LYS:O	1:G:165:GLU:HA	1.64	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:105:LYS:HD2	1:J:148:GLU:HB2	1.48	0.95
1:K:109:VAL:HB	1:K:322:ALA:HB2	1.47	0.95
1:L:49:TYR:CE2	1:P:245:GLU:C	2.33	0.95
1:L:75:ASP:CA	1:P:245:GLU:CG	2.28	0.95
1:N:27:LYS:HE2	1:N:35:ARG:HG2	1.48	0.95
1:P:109:VAL:HB	1:P:322:ALA:HB2	1.47	0.95
1:F:204:HIS:HD2	1:I:274:PHE:HE1	0.97	0.95
1:J:52:ILE:HD12	1:N:247:ASP:O	1.64	0.95
1:M:27:LYS:HE2	1:M:35:ARG:HG2	1.48	0.95
1:O:27:LYS:HE2	1:O:35:ARG:HG2	1.48	0.95
1:D:27:LYS:HE2	1:D:35:ARG:HG2	1.48	0.95
1:M:219:ASP:HB3	1:M:224:ASN:HD22	1.29	0.95
1:A:241:LYS:HB2	1:F:166:GLN:HE22	1.28	0.95
1:B:27:LYS:HE2	1:B:35:ARG:HG2	1.48	0.95
1:C:245:GLU:CB	1:G:75:ASP:N	2.28	0.95
1:O:109:VAL:HB	1:O:322:ALA:HB2	1.47	0.95
1:A:241:LYS:O	1:F:165:GLU:CG	2.14	0.95
1:F:202:GLU:CG	1:I:271:LYS:HG2	1.96	0.95
1:I:105:LYS:HD2	1:I:148:GLU:HB2	1.48	0.95
1:I:277:ASP:O	1:J:224:ASN:CA	2.14	0.95
1:J:109:VAL:HB	1:J:322:ALA:HB2	1.47	0.95
1:J:133:ASN:HD22	1:J:148:GLU:HA	1.27	0.95
1:N:109:VAL:HB	1:N:322:ALA:HB2	1.47	0.95
1:C:27:LYS:HE2	1:C:35:ARG:HG2	1.48	0.95
1:C:230:GLN:HB3	1:H:306:ILE:HG23	1.45	0.95
1:K:308:ASN:ND2	1:P:231:ALA:H	1.51	0.95
1:P:27:LYS:HE2	1:P:35:ARG:HG2	1.48	0.95
1:H:105:LYS:HD2	1:H:148:GLU:HB2	1.48	0.95
1:M:275:LYS:HZ1	1:N:219:ASP:CG	1.70	0.95
1:C:241:LYS:N	1:H:166:GLN:HE21	1.56	0.95
1:H:271:LYS:HG2	1:K:202:GLU:CG	1.96	0.95
1:I:75:ASP:CA	1:M:245:GLU:CB	2.43	0.95
1:M:109:VAL:HB	1:M:322:ALA:HB2	1.47	0.95
1:B:245:GLU:HB3	1:F:74:GLU:C	1.86	0.95
1:D:245:GLU:O	1:H:74:GLU:HA	1.67	0.95
1:E:225:LEU:HB3	1:F:300:TYR:HD2	1.26	0.95
1:I:109:VAL:HB	1:I:322:ALA:HB2	1.47	0.95
1:A:229:GLU:N	1:F:308:ASN:HB3	1.55	0.95
1:D:256:LYS:HA	1:D:256:LYS:HE3	1.49	0.95
1:F:50:ILE:HG23	1:G:323:VAL:HG11	1.20	0.95
1:I:133:ASN:HD22	1:I:148:GLU:HA	1.27	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:105:LYS:HD2	1:G:148:GLU:HB2	1.48	0.94
1:H:274:PHE:HE1	1:K:204:HIS:HD2	0.99	0.94
1:J:52:ILE:CG1	1:N:247:ASP:O	2.15	0.94
1:B:105:LYS:HD2	1:B:148:GLU:HB2	1.48	0.94
1:C:105:LYS:HD2	1:C:148:GLU:HB2	1.48	0.94
1:D:105:LYS:HD2	1:D:148:GLU:HB2	1.48	0.94
1:F:274:PHE:CZ	1:I:203:GLU:OE1	2.19	0.94
1:A:105:LYS:HD2	1:A:148:GLU:HB2	1.48	0.94
1:A:241:LYS:HZ1	1:F:305:ILE:HG22	1.26	0.94
1:E:224:ASN:CA	1:F:277:ASP:O	2.14	0.94
1:F:224:ASN:OD1	1:F:233:SER:HB3	1.68	0.94
1:G:224:ASN:OD1	1:G:233:SER:HB3	1.68	0.94
1:C:256:LYS:HA	1:C:256:LYS:HE3	1.49	0.94
1:D:224:ASN:OD1	1:D:233:SER:HB3	1.68	0.94
1:G:50:ILE:HG23	1:H:323:VAL:HG11	1.20	0.94
1:H:224:ASN:OD1	1:H:233:SER:HB3	1.68	0.94
1:I:300:TYR:HD2	1:J:225:LEU:HB3	1.26	0.94
1:J:27:LYS:HE2	1:J:35:ARG:HG2	1.48	0.94
1:E:224:ASN:OD1	1:E:233:SER:HB3	1.68	0.94
1:H:198:GLU:HA	1:K:203:GLU:HB2	1.46	0.94
1:J:224:ASN:OD1	1:J:233:SER:HB3	1.68	0.94
1:K:224:ASN:OD1	1:K:233:SER:HB3	1.68	0.94
1:K:278:GLN:CB	1:L:218:THR:CB	2.41	0.94
1:A:256:LYS:HA	1:A:256:LYS:HE3	1.49	0.94
1:C:241:LYS:HB2	1:H:166:GLN:HE22	1.25	0.94
1:F:105:LYS:HD2	1:F:148:GLU:HB2	1.48	0.94
1:K:320:LYS:HA	1:P:246:ILE:HD12	0.95	0.94
1:K:320:LYS:CA	1:P:246:ILE:CD1	2.45	0.94
1:C:78:GLU:HG2	1:D:170:LYS:H	1.33	0.94
1:I:224:ASN:OD1	1:I:233:SER:HB3	1.68	0.94
1:L:224:ASN:OD1	1:L:233:SER:HB3	1.68	0.94
1:A:245:GLU:O	1:E:74:GLU:O	1.86	0.94
1:B:256:LYS:HA	1:B:256:LYS:HE3	1.49	0.94
1:E:131:LYS:CA	1:E:149:ILE:HD11	1.98	0.94
1:G:131:LYS:CA	1:G:149:ILE:HD11	1.98	0.94
1:G:224:ASN:CA	1:H:277:ASP:O	2.14	0.94
1:H:131:LYS:CA	1:H:149:ILE:HD11	1.98	0.94
1:K:131:LYS:CA	1:K:149:ILE:HD11	1.98	0.94
1:L:131:LYS:CA	1:L:149:ILE:HD11	1.98	0.94
1:M:300:TYR:N	1:N:227:THR:HG23	1.64	0.94
1:B:242:LYS:C	1:G:166:GLN:HA	1.87	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:224:ASN:OD1	1:C:233:SER:HB3	1.68	0.94
1:F:131:LYS:CA	1:F:149:ILE:HD11	1.98	0.94
1:H:188:LEU:H	1:H:199:ARG:HG2	1.33	0.94
1:O:131:LYS:CA	1:O:149:ILE:HD11	1.98	0.94
1:P:131:LYS:CA	1:P:149:ILE:HD11	1.98	0.94
1:E:105:LYS:HD2	1:E:148:GLU:HB2	1.48	0.94
1:K:188:LEU:H	1:K:199:ARG:HG2	1.33	0.94
1:K:300:TYR:HD2	1:L:225:LEU:HB3	1.26	0.94
1:O:168:ASN:CA	1:P:72:GLY:HA3	1.98	0.94
1:C:247:ASP:O	1:G:52:ILE:CG2	2.16	0.93
1:G:268:LEU:HD11	1:J:268:LEU:HA	1.51	0.93
1:J:131:LYS:CA	1:J:149:ILE:HD11	1.98	0.93
1:N:131:LYS:CA	1:N:149:ILE:HD11	1.98	0.93
1:B:131:LYS:CA	1:B:149:ILE:HD11	1.98	0.93
1:I:27:LYS:HE2	1:I:35:ARG:HG2	1.48	0.93
1:K:309:ASN:O	1:P:229:GLU:OE2	1.87	0.93
1:N:256:LYS:HA	1:N:256:LYS:HE3	1.49	0.93
1:A:131:LYS:CA	1:A:149:ILE:HD11	1.98	0.93
1:C:131:LYS:CA	1:C:149:ILE:HD11	1.98	0.93
1:C:133:ASN:ND2	1:C:148:GLU:HA	1.84	0.93
1:D:133:ASN:ND2	1:D:148:GLU:HA	1.84	0.93
1:F:198:GLU:CG	1:I:203:GLU:CB	2.43	0.93
1:G:201:ILE:CG1	1:J:272:ARG:NH1	2.16	0.93
1:H:133:ASN:ND2	1:H:148:GLU:HA	1.84	0.93
1:I:131:LYS:CA	1:I:149:ILE:HD11	1.98	0.93
1:M:131:LYS:CA	1:M:149:ILE:HD11	1.98	0.93
1:O:170:LYS:H	1:P:78:GLU:HG2	1.33	0.93
1:P:224:ASN:OD1	1:P:233:SER:HB3	1.68	0.93
1:A:241:LYS:HB2	1:F:166:GLN:CD	1.89	0.93
1:H:274:PHE:HD1	1:K:204:HIS:NE2	1.44	0.93
1:M:256:LYS:HE3	1:M:256:LYS:HA	1.49	0.93
1:F:202:GLU:HA	1:I:272:ARG:CG	1.97	0.93
1:I:43:TYR:CZ	1:I:67:LEU:HB3	2.04	0.93
1:K:27:LYS:HE2	1:K:35:ARG:HG2	1.48	0.93
1:L:52:ILE:CD1	1:P:247:ASP:CA	2.40	0.93
1:M:168:ASN:CA	1:N:72:GLY:HA3	1.98	0.93
1:N:224:ASN:OD1	1:N:233:SER:HB3	1.68	0.93
1:O:256:LYS:HA	1:O:256:LYS:HE3	1.49	0.93
1:B:241:LYS:HB2	1:G:166:GLN:HE22	1.15	0.93
1:G:268:LEU:HA	1:J:268:LEU:HD11	1.51	0.93
1:I:278:GLN:CB	1:J:218:THR:CB	2.41	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:165:GLU:HG2	1:P:241:LYS:O	1.67	0.93
1:K:322:ALA:HA	1:L:48:GLY:CA	1.99	0.93
1:A:133:ASN:ND2	1:A:148:GLU:HA	1.84	0.93
1:B:133:ASN:ND2	1:B:148:GLU:HA	1.84	0.93
1:B:245:GLU:C	1:F:49:TYR:CE2	2.38	0.93
1:D:131:LYS:CA	1:D:149:ILE:HD11	1.98	0.93
1:F:133:ASN:ND2	1:F:148:GLU:HA	1.84	0.93
1:G:133:ASN:ND2	1:G:148:GLU:HA	1.84	0.93
1:K:165:GLU:CG	1:P:241:LYS:O	2.15	0.93
1:K:305:ILE:HG22	1:P:241:LYS:NZ	1.82	0.93
1:L:53:GLU:HG3	1:P:252:THR:HG21	1.51	0.93
1:L:188:LEU:H	1:L:199:ARG:HG2	1.33	0.93
1:E:133:ASN:ND2	1:E:148:GLU:HA	1.84	0.93
1:E:274:PHE:HD2	1:E:278:GLN:HE22	1.17	0.93
1:F:43:TYR:CZ	1:F:67:LEU:HB3	2.04	0.93
1:F:256:LYS:HA	1:F:256:LYS:HE3	1.49	0.93
1:K:133:ASN:ND2	1:K:148:GLU:HA	1.84	0.93
1:O:98:LEU:HD11	1:O:147:PHE:CD1	2.04	0.93
1:B:78:GLU:HG2	1:C:170:LYS:H	1.33	0.93
1:C:98:LEU:HD11	1:C:147:PHE:CD1	2.04	0.93
1:D:98:LEU:HD11	1:D:147:PHE:CD1	2.04	0.93
1:E:43:TYR:CZ	1:E:67:LEU:HB3	2.04	0.93
1:E:98:LEU:HD11	1:E:147:PHE:CD1	2.04	0.93
1:F:218:THR:CB	1:G:278:GLN:CB	2.41	0.93
1:G:188:LEU:H	1:G:199:ARG:HG2	1.33	0.93
1:H:43:TYR:CZ	1:H:67:LEU:HB3	2.04	0.93
1:H:98:LEU:HD11	1:H:147:PHE:CD1	2.04	0.93
1:J:188:LEU:H	1:J:199:ARG:HG2	1.33	0.93
1:K:43:TYR:CZ	1:K:67:LEU:HB3	2.04	0.93
1:K:50:ILE:CG2	1:O:246:ILE:CD1	1.94	0.93
1:L:43:TYR:CZ	1:L:67:LEU:HB3	2.04	0.93
1:B:50:ILE:HG13	1:C:320:LYS:HE2	1.51	0.93
1:F:98:LEU:HD11	1:F:147:PHE:CD1	2.04	0.93
1:F:274:PHE:HD2	1:F:278:GLN:HE22	1.16	0.93
1:G:27:LYS:HE2	1:G:35:ARG:HG2	1.48	0.93
1:G:98:LEU:HD11	1:G:147:PHE:CD1	2.04	0.93
1:I:98:LEU:HD11	1:I:147:PHE:CD1	2.04	0.93
1:J:73:VAL:CB	1:N:240:MET:HE2	1.97	0.93
1:L:133:ASN:ND2	1:L:148:GLU:HA	1.84	0.93
1:N:133:ASN:ND2	1:N:148:GLU:HA	1.83	0.93
1:O:224:ASN:OD1	1:O:233:SER:HB3	1.68	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:43:TYR:CZ	1:A:67:LEU:HB3	2.04	0.92
1:C:43:TYR:CZ	1:C:67:LEU:HB3	2.04	0.92
1:E:256:LYS:HE3	1:E:256:LYS:HA	1.49	0.92
1:F:200:PHE:HB2	1:I:200:PHE:HB2	1.50	0.92
1:G:43:TYR:CZ	1:G:67:LEU:HB3	2.04	0.92
1:I:133:ASN:ND2	1:I:148:GLU:HA	1.84	0.92
1:J:133:ASN:ND2	1:J:148:GLU:HA	1.84	0.92
1:M:133:ASN:ND2	1:M:148:GLU:HA	1.84	0.92
1:N:98:LEU:HD11	1:N:147:PHE:CD1	2.04	0.92
1:P:256:LYS:HA	1:P:256:LYS:HE3	1.49	0.92
1:E:218:THR:CB	1:F:278:GLN:HB3	2.00	0.92
1:J:278:GLN:HB3	1:K:218:THR:CB	2.00	0.92
1:N:170:LYS:H	1:O:78:GLU:HG2	1.33	0.92
1:O:133:ASN:ND2	1:O:148:GLU:HA	1.84	0.92
1:A:98:LEU:HD11	1:A:147:PHE:CD1	2.04	0.92
1:A:224:ASN:OD1	1:A:233:SER:HB3	1.68	0.92
1:A:246:ILE:CD1	1:E:50:ILE:CG2	2.17	0.92
1:B:43:TYR:CZ	1:B:67:LEU:HB3	2.04	0.92
1:C:50:ILE:HG13	1:D:320:LYS:HE2	1.51	0.92
1:D:43:TYR:CZ	1:D:67:LEU:HB3	2.04	0.92
1:G:256:LYS:HA	1:G:256:LYS:HE3	1.49	0.92
1:J:43:TYR:CZ	1:J:67:LEU:HB3	2.04	0.92
1:K:98:LEU:HD11	1:K:147:PHE:CD1	2.04	0.92
1:L:256:LYS:HA	1:L:256:LYS:HE3	1.49	0.92
1:N:277:ASP:CB	1:O:218:THR:HG1	1.78	0.92
1:B:98:LEU:HD11	1:B:147:PHE:CD1	2.04	0.92
1:D:188:LEU:H	1:D:199:ARG:HG2	1.33	0.92
1:D:246:ILE:HD13	1:H:50:ILE:HG23	0.94	0.92
1:E:188:LEU:H	1:E:199:ARG:HG2	1.33	0.92
1:J:307:THR:O	1:O:230:GLN:HB2	1.70	0.92
1:K:53:GLU:HG3	1:O:252:THR:HG21	1.52	0.92
1:K:278:GLN:HB3	1:L:218:THR:CB	2.00	0.92
1:P:133:ASN:ND2	1:P:148:GLU:HA	1.84	0.92
1:F:27:LYS:HE2	1:F:35:ARG:HG2	1.48	0.92
1:I:278:GLN:HB3	1:J:218:THR:CB	2.00	0.92
1:J:308:ASN:HD21	1:O:231:ALA:H	1.15	0.92
1:L:173:ASN:ND2	1:L:279:LEU:HD23	1.85	0.92
1:P:188:LEU:H	1:P:199:ARG:HG2	1.33	0.92
1:B:224:ASN:OD1	1:B:233:SER:HB3	1.68	0.92
1:C:110:LEU:HA	1:C:318:LEU:HD13	1.52	0.92
1:G:199:ARG:O	1:J:201:ILE:HG22	1.68	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:98:LEU:HD11	1:J:147:PHE:CD1	2.04	0.92
1:M:98:LEU:HD11	1:M:147:PHE:CD1	2.04	0.92
1:A:274:PHE:HD2	1:A:278:GLN:HE22	1.17	0.92
1:B:110:LEU:HA	1:B:318:LEU:HD13	1.52	0.92
1:B:173:ASN:ND2	1:B:279:LEU:HD23	1.85	0.92
1:D:110:LEU:HA	1:D:318:LEU:HD13	1.51	0.92
1:D:246:ILE:HG12	1:H:50:ILE:O	1.69	0.92
1:I:183:ASN:HB3	1:I:201:ILE:HD11	1.52	0.92
1:J:278:GLN:CA	1:K:218:THR:OG1	2.18	0.92
1:K:256:LYS:HA	1:K:256:LYS:HE3	1.49	0.92
1:M:224:ASN:OD1	1:M:233:SER:HB3	1.68	0.92
1:O:320:LYS:HE2	1:P:50:ILE:HG13	1.51	0.92
1:F:46:GLU:CG	1:G:324:ALA:CB	2.34	0.92
1:F:218:THR:OG1	1:G:278:GLN:CA	2.18	0.92
1:K:173:ASN:ND2	1:K:279:LEU:HD23	1.85	0.92
1:P:183:ASN:HB3	1:P:201:ILE:HD11	1.52	0.92
1:E:218:THR:OG1	1:F:278:GLN:CA	2.18	0.92
1:G:274:PHE:HD2	1:G:278:GLN:HE22	1.17	0.92
1:H:204:HIS:NE2	1:K:274:PHE:HD1	1.66	0.92
1:I:110:LEU:HA	1:I:318:LEU:HD13	1.52	0.92
1:I:278:GLN:CA	1:J:218:THR:OG1	2.18	0.92
1:J:52:ILE:HG21	1:N:247:ASP:O	1.66	0.92
1:L:183:ASN:HB3	1:L:201:ILE:HD11	1.52	0.92
1:P:98:LEU:HD11	1:P:147:PHE:CD1	2.04	0.92
1:A:188:LEU:H	1:A:199:ARG:HG2	1.33	0.92
1:C:173:ASN:ND2	1:C:279:LEU:HD23	1.85	0.92
1:C:183:ASN:ND2	1:C:203:GLU:HA	1.85	0.92
1:F:202:GLU:HA	1:I:272:ARG:HB2	1.49	0.92
1:I:256:LYS:HA	1:I:256:LYS:HE3	1.49	0.92
1:J:110:LEU:HA	1:J:318:LEU:HD13	1.52	0.92
1:M:274:PHE:HD2	1:M:278:GLN:HE22	1.16	0.92
1:B:240:MET:HE1	1:F:73:VAL:HB	1.49	0.91
1:E:110:LEU:HA	1:E:318:LEU:HD13	1.52	0.91
1:E:183:ASN:ND2	1:E:203:GLU:HA	1.85	0.91
1:F:218:THR:CB	1:G:278:GLN:HB3	2.00	0.91
1:G:48:GLY:CA	1:H:322:ALA:CA	2.48	0.91
1:H:197:SER:HB3	1:K:183:ASN:HD21	1.32	0.91
1:H:204:HIS:HD2	1:K:274:PHE:CE1	1.86	0.91
1:J:256:LYS:HA	1:J:256:LYS:HE3	1.49	0.91
1:K:278:GLN:CA	1:L:218:THR:OG1	2.18	0.91
1:M:183:ASN:HB3	1:M:201:ILE:HD11	1.52	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:183:ASN:HB3	1:N:201:ILE:HD11	1.52	0.91
1:A:232:GLU:H	1:F:308:ASN:HD22	0.95	0.91
1:F:110:LEU:HA	1:F:318:LEU:HD13	1.52	0.91
1:F:183:ASN:ND2	1:F:203:GLU:HA	1.85	0.91
1:G:204:HIS:HD2	1:J:274:PHE:HE1	1.08	0.91
1:J:50:ILE:C	1:N:246:ILE:HA	1.90	0.91
1:L:98:LEU:HD11	1:L:147:PHE:CD1	2.04	0.91
1:N:323:VAL:HG22	1:O:47:ASP:C	1.91	0.91
1:P:43:TYR:CZ	1:P:67:LEU:HB3	2.04	0.91
1:A:50:ILE:HG13	1:B:320:LYS:HE2	1.51	0.91
1:G:49:TYR:N	1:H:323:VAL:N	2.18	0.91
1:G:183:ASN:ND2	1:G:203:GLU:HA	1.85	0.91
1:G:218:THR:OG1	1:H:278:GLN:CA	2.18	0.91
1:H:27:LYS:HE2	1:H:35:ARG:HG2	1.48	0.91
1:H:203:GLU:HB3	1:K:198:GLU:HG2	1.46	0.91
1:J:324:ALA:HB2	1:K:49:TYR:HB3	0.92	0.91
1:K:110:LEU:HA	1:K:318:LEU:HD13	1.52	0.91
1:M:110:LEU:HA	1:M:318:LEU:HD13	1.52	0.91
1:N:188:LEU:H	1:N:199:ARG:HG2	1.33	0.91
1:O:43:TYR:CZ	1:O:67:LEU:HB3	2.04	0.91
1:A:110:LEU:HA	1:A:318:LEU:HD13	1.52	0.91
1:B:241:LYS:HA	1:G:166:GLN:O	1.68	0.91
1:B:274:PHE:HD2	1:B:278:GLN:HE22	1.16	0.91
1:C:242:LYS:CA	1:H:166:GLN:CB	2.34	0.91
1:D:274:PHE:HD2	1:D:278:GLN:HE22	1.16	0.91
1:E:183:ASN:HB3	1:E:201:ILE:HD11	1.52	0.91
1:F:48:GLY:CA	1:G:322:ALA:CA	2.48	0.91
1:G:227:THR:O	1:H:300:TYR:HA	1.70	0.91
1:G:265:ALA:HA	1:J:271:LYS:HZ2	1.36	0.91
1:G:274:PHE:HE1	1:J:204:HIS:HD2	1.07	0.91
1:H:173:ASN:ND2	1:H:279:LEU:HD23	1.85	0.91
1:I:274:PHE:HD2	1:I:278:GLN:HE22	1.16	0.91
1:K:323:VAL:C	1:L:47:ASP:O	2.09	0.91
1:K:324:ALA:HB2	1:L:49:TYR:HB3	0.92	0.91
1:M:188:LEU:H	1:M:199:ARG:HG2	1.33	0.91
1:C:241:LYS:CA	1:H:165:GLU:OE2	2.18	0.91
1:D:183:ASN:ND2	1:D:203:GLU:HA	1.85	0.91
1:F:183:ASN:HD21	1:I:197:SER:HB3	1.32	0.91
1:H:183:ASN:ND2	1:H:203:GLU:HA	1.85	0.91
1:J:173:ASN:ND2	1:J:279:LEU:HD23	1.85	0.91
1:K:183:ASN:ND2	1:K:203:GLU:HA	1.85	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:110:LEU:HA	1:L:318:LEU:HD13	1.52	0.91
1:L:183:ASN:ND2	1:L:203:GLU:HA	1.85	0.91
1:L:274:PHE:HD2	1:L:278:GLN:HE22	1.16	0.91
1:M:173:ASN:ND2	1:M:279:LEU:HD23	1.85	0.91
1:B:47:ASP:CG	1:C:322:ALA:O	2.00	0.91
1:C:59:ILE:HG21	1:C:92:THR:HG22	1.53	0.91
1:G:110:LEU:HA	1:G:318:LEU:HD13	1.52	0.91
1:J:59:ILE:HG21	1:J:92:THR:HG22	1.53	0.91
1:J:323:VAL:C	1:K:47:ASP:O	2.09	0.91
1:K:323:VAL:N	1:L:49:TYR:N	2.18	0.91
1:N:43:TYR:CZ	1:N:67:LEU:HB3	2.04	0.91
1:N:110:LEU:HA	1:N:318:LEU:HD13	1.52	0.91
1:A:173:ASN:ND2	1:A:279:LEU:HD23	1.85	0.91
1:B:72:GLY:HA3	1:C:168:ASN:CA	1.98	0.91
1:C:47:ASP:C	1:D:323:VAL:HG22	1.91	0.91
1:E:27:LYS:HE2	1:E:35:ARG:HG2	1.48	0.91
1:E:59:ILE:HG21	1:E:92:THR:HG22	1.53	0.91
1:F:204:HIS:NE2	1:I:274:PHE:HD1	1.42	0.91
1:G:173:ASN:ND2	1:G:279:LEU:HD23	1.85	0.91
1:G:224:ASN:HD21	1:H:275:LYS:HZ2	1.11	0.91
1:H:256:LYS:HA	1:H:256:LYS:HE3	1.49	0.91
1:K:52:ILE:HG13	1:O:247:ASP:O	1.67	0.91
1:O:183:ASN:HB3	1:O:201:ILE:HD11	1.52	0.91
1:D:59:ILE:HG21	1:D:92:THR:HG22	1.53	0.91
1:F:268:LEU:CA	1:I:268:LEU:HD11	1.96	0.91
1:G:47:ASP:O	1:H:323:VAL:C	2.09	0.91
1:H:200:PHE:HB2	1:K:200:PHE:HB2	1.53	0.91
1:H:272:ARG:CG	1:K:202:GLU:HA	2.00	0.91
1:I:323:VAL:C	1:J:47:ASP:O	2.09	0.91
1:I:323:VAL:N	1:J:49:TYR:N	2.18	0.91
1:J:277:ASP:O	1:K:224:ASN:CA	2.14	0.91
1:M:43:TYR:CZ	1:M:67:LEU:HB3	2.04	0.91
1:N:168:ASN:CA	1:O:72:GLY:HA3	1.98	0.91
1:P:183:ASN:ND2	1:P:203:GLU:HA	1.85	0.91
1:F:188:LEU:H	1:F:199:ARG:HG2	1.33	0.91
1:H:274:PHE:HD2	1:H:278:GLN:HE22	1.17	0.91
1:I:188:LEU:H	1:I:199:ARG:HG2	1.33	0.91
1:I:324:ALA:HB2	1:J:49:TYR:HB3	0.92	0.91
1:K:274:PHE:HD2	1:K:278:GLN:HE22	1.16	0.91
1:K:300:TYR:HA	1:L:227:THR:O	1.70	0.91
1:M:170:LYS:H	1:N:78:GLU:HG2	1.33	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:323:VAL:HG22	1:P:47:ASP:C	1.91	0.91
1:A:183:ASN:HB3	1:A:201:ILE:HD11	1.52	0.91
1:F:47:ASP:O	1:G:323:VAL:C	2.08	0.91
1:F:49:TYR:N	1:G:323:VAL:N	2.18	0.91
1:G:71:GLN:OE1	1:H:168:ASN:ND2	2.01	0.91
1:G:218:THR:CB	1:H:278:GLN:HB3	2.00	0.91
1:H:106:VAL:HG21	1:H:147:PHE:CZ	2.07	0.91
1:H:110:LEU:HA	1:H:318:LEU:HD13	1.52	0.91
1:H:183:ASN:HB3	1:H:201:ILE:HD11	1.52	0.91
1:I:300:TYR:HA	1:J:227:THR:O	1.70	0.91
1:J:183:ASN:ND2	1:J:203:GLU:HA	1.85	0.91
1:J:183:ASN:HB3	1:J:201:ILE:HD11	1.52	0.91
1:K:52:ILE:HG21	1:O:247:ASP:O	1.71	0.91
1:A:59:ILE:HG21	1:A:92:THR:HG22	1.53	0.90
1:A:78:GLU:HG2	1:B:170:LYS:H	1.33	0.90
1:B:183:ASN:HB3	1:B:201:ILE:HD11	1.52	0.90
1:D:173:ASN:ND2	1:D:279:LEU:HD23	1.85	0.90
1:D:179:PHE:CB	1:D:288:THR:HB	2.01	0.90
1:E:173:ASN:ND2	1:E:279:LEU:HD23	1.85	0.90
1:F:106:VAL:HG21	1:F:147:PHE:CZ	2.07	0.90
1:I:59:ILE:HG21	1:I:92:THR:HG22	1.53	0.90
1:I:106:VAL:HG21	1:I:147:PHE:CZ	2.07	0.90
1:J:166:GLN:O	1:O:241:LYS:HA	1.71	0.90
1:J:308:ASN:ND2	1:O:231:ALA:H	1.52	0.90
1:K:179:PHE:CB	1:K:288:THR:HB	2.01	0.90
1:K:308:ASN:CG	1:P:230:GLN:CA	2.38	0.90
1:L:27:LYS:HE2	1:L:35:ARG:HG2	1.48	0.90
1:N:59:ILE:HG21	1:N:92:THR:HG22	1.53	0.90
1:O:110:LEU:HA	1:O:318:LEU:HD13	1.52	0.90
1:B:183:ASN:ND2	1:B:203:GLU:HA	1.85	0.90
1:B:188:LEU:H	1:B:199:ARG:HG2	1.33	0.90
1:C:274:PHE:HD2	1:C:278:GLN:HE22	1.16	0.90
1:H:179:PHE:CB	1:H:288:THR:HB	2.01	0.90
1:I:275:LYS:HZ2	1:J:224:ASN:HD22	0.91	0.90
1:K:106:VAL:HG21	1:K:147:PHE:CZ	2.07	0.90
1:M:323:VAL:HG22	1:N:47:ASP:C	1.91	0.90
1:N:274:PHE:HD2	1:N:278:GLN:HE22	1.17	0.90
1:O:183:ASN:ND2	1:O:203:GLU:HA	1.85	0.90
1:O:188:LEU:H	1:O:199:ARG:HG2	1.33	0.90
1:P:179:PHE:CB	1:P:288:THR:HB	2.01	0.90
1:P:274:PHE:HD2	1:P:278:GLN:HE22	1.17	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:49:TYR:HB3	1:F:324:ALA:HB2	0.92	0.90
1:I:320:LYS:CA	1:N:246:ILE:HD12	1.98	0.90
1:P:173:ASN:ND2	1:P:279:LEU:HD23	1.85	0.90
1:A:183:ASN:ND2	1:A:203:GLU:HA	1.86	0.90
1:B:59:ILE:HG21	1:B:92:THR:HG22	1.53	0.90
1:E:179:PHE:CB	1:E:288:THR:HB	2.01	0.90
1:F:49:TYR:HB3	1:G:324:ALA:HB2	0.92	0.90
1:F:179:PHE:CB	1:F:288:THR:HB	2.01	0.90
1:F:202:GLU:HA	1:I:272:ARG:CB	2.00	0.90
1:G:49:TYR:HB3	1:H:324:ALA:HB2	0.92	0.90
1:I:183:ASN:ND2	1:I:203:GLU:HA	1.85	0.90
1:J:179:PHE:CB	1:J:288:THR:HB	2.01	0.90
1:K:59:ILE:HG21	1:K:92:THR:HG22	1.53	0.90
1:K:168:ASN:HB3	1:L:71:GLN:CD	1.91	0.90
1:N:106:VAL:HG21	1:N:147:PHE:CZ	2.07	0.90
1:O:173:ASN:ND2	1:O:279:LEU:HD23	1.85	0.90
1:O:179:PHE:CB	1:O:288:THR:HB	2.01	0.90
1:P:106:VAL:HG21	1:P:147:PHE:CZ	2.07	0.90
1:B:106:VAL:HG21	1:B:147:PHE:CZ	2.06	0.90
1:C:179:PHE:CB	1:C:288:THR:HB	2.01	0.90
1:D:219:ASP:CB	1:D:224:ASN:HD22	1.85	0.90
1:E:47:ASP:O	1:F:323:VAL:C	2.09	0.90
1:F:203:GLU:N	1:I:272:ARG:CG	2.15	0.90
1:G:200:PHE:HB2	1:J:200:PHE:HB2	1.52	0.90
1:J:274:PHE:HD2	1:J:278:GLN:HE22	1.16	0.90
1:M:59:ILE:HG21	1:M:92:THR:HG22	1.53	0.90
1:O:59:ILE:HG21	1:O:92:THR:HG22	1.53	0.90
1:A:228:ASN:C	1:F:308:ASN:HB3	1.92	0.90
1:B:219:ASP:CB	1:B:224:ASN:HD22	1.85	0.90
1:C:219:ASP:CB	1:C:224:ASN:HD22	1.85	0.90
1:F:173:ASN:ND2	1:F:279:LEU:HD23	1.85	0.90
1:H:202:GLU:HG3	1:K:271:LYS:HE3	1.54	0.90
1:K:324:ALA:CB	1:L:46:GLU:CG	2.34	0.90
1:M:219:ASP:CB	1:M:224:ASN:HD22	1.85	0.90
1:M:320:LYS:HE2	1:N:50:ILE:HG13	1.51	0.90
1:N:219:ASP:CB	1:N:224:ASN:HD22	1.85	0.90
1:O:274:PHE:HD2	1:O:278:GLN:HE22	1.16	0.90
1:P:59:ILE:HG21	1:P:92:THR:HG22	1.53	0.90
1:A:106:VAL:HG21	1:A:147:PHE:CZ	2.07	0.90
1:D:106:VAL:HG21	1:D:147:PHE:CZ	2.06	0.90
1:E:49:TYR:N	1:F:323:VAL:N	2.18	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:46:GLU:HG3	1:H:324:ALA:HB3	1.53	0.90
1:G:106:VAL:HG21	1:G:147:PHE:CZ	2.06	0.90
1:G:201:ILE:HG22	1:J:199:ARG:O	1.69	0.90
1:I:173:ASN:ND2	1:I:279:LEU:HD23	1.85	0.90
1:I:322:ALA:HA	1:J:48:GLY:CA	1.99	0.90
1:J:168:ASN:HB3	1:K:71:GLN:CD	1.91	0.90
1:J:323:VAL:N	1:K:49:TYR:N	2.18	0.90
1:M:322:ALA:O	1:N:47:ASP:CG	2.00	0.90
1:N:183:ASN:ND2	1:N:203:GLU:HA	1.85	0.90
1:N:320:LYS:HE2	1:O:50:ILE:HG13	1.51	0.90
1:O:219:ASP:CB	1:O:224:ASN:HD22	1.85	0.90
1:A:47:ASP:C	1:B:323:VAL:HG22	1.91	0.90
1:A:219:ASP:CB	1:A:224:ASN:HD22	1.85	0.90
1:B:47:ASP:C	1:C:323:VAL:HG22	1.91	0.90
1:C:183:ASN:HB3	1:C:201:ILE:HD11	1.52	0.90
1:C:247:ASP:C	1:G:52:ILE:CD1	2.40	0.90
1:E:224:ASN:HD22	1:F:275:LYS:HZ2	0.90	0.90
1:F:227:THR:O	1:G:300:TYR:HA	1.70	0.90
1:F:274:PHE:CE1	1:I:204:HIS:HD2	1.83	0.90
1:I:165:GLU:HA	1:N:241:LYS:O	1.72	0.90
1:I:166:GLN:HA	1:N:242:LYS:C	1.90	0.90
1:I:183:ASN:HD22	1:I:203:GLU:HA	1.37	0.90
1:I:324:ALA:CB	1:J:46:GLU:CG	2.34	0.90
1:I:324:ALA:HB3	1:J:46:GLU:HG3	1.53	0.90
1:J:73:VAL:CB	1:N:240:MET:HE1	1.99	0.90
1:J:106:VAL:HG21	1:J:147:PHE:CZ	2.07	0.90
1:J:183:ASN:HD22	1:J:203:GLU:HA	1.37	0.90
1:M:106:VAL:HG21	1:M:147:PHE:CZ	2.07	0.90
1:N:173:ASN:ND2	1:N:279:LEU:HD23	1.85	0.90
1:P:110:LEU:HA	1:P:318:LEU:HD13	1.52	0.90
1:P:183:ASN:HD22	1:P:203:GLU:HA	1.37	0.90
1:A:179:PHE:CB	1:A:288:THR:HB	2.01	0.90
1:A:183:ASN:HD22	1:A:203:GLU:HA	1.37	0.90
1:B:183:ASN:HD22	1:B:203:GLU:HA	1.37	0.90
1:B:247:ASP:O	1:F:52:ILE:HG21	1.70	0.90
1:C:188:LEU:H	1:C:199:ARG:HG2	1.33	0.90
1:K:183:ASN:HB3	1:K:201:ILE:HD11	1.52	0.90
1:K:183:ASN:HD22	1:K:203:GLU:HA	1.37	0.90
1:A:241:LYS:HA	1:F:166:GLN:C	1.87	0.90
1:C:240:MET:HE3	1:G:73:VAL:CG2	1.87	0.90
1:E:106:VAL:HG21	1:E:147:PHE:CZ	2.06	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:59:ILE:HG21	1:F:92:THR:HG22	1.53	0.90
1:H:183:ASN:HD22	1:H:203:GLU:HA	1.37	0.90
1:I:50:ILE:O	1:M:246:ILE:CG1	2.20	0.90
1:I:179:PHE:CB	1:I:288:THR:HB	2.01	0.90
1:J:165:GLU:OE2	1:O:241:LYS:CA	2.18	0.90
1:P:219:ASP:CB	1:P:224:ASN:HD22	1.85	0.90
1:C:183:ASN:HD22	1:C:203:GLU:HA	1.37	0.89
1:D:183:ASN:HB3	1:D:201:ILE:HD11	1.52	0.89
1:G:183:ASN:HD22	1:G:203:GLU:HA	1.37	0.89
1:H:59:ILE:HG21	1:H:92:THR:HG22	1.53	0.89
1:O:183:ASN:HD22	1:O:203:GLU:HA	1.37	0.89
1:C:47:ASP:CA	1:D:323:VAL:HG23	1.95	0.89
1:F:71:GLN:CD	1:G:168:ASN:HB3	1.91	0.89
1:F:219:ASP:CG	1:G:275:LYS:NZ	2.25	0.89
1:G:46:GLU:CG	1:H:324:ALA:CB	2.34	0.89
1:H:203:GLU:CB	1:K:198:GLU:CG	2.47	0.89
1:J:275:LYS:CE	1:K:219:ASP:OD2	1.95	0.89
1:M:179:PHE:CB	1:M:288:THR:HB	2.01	0.89
1:N:179:PHE:CB	1:N:288:THR:HB	2.01	0.89
1:A:72:GLY:HA3	1:B:168:ASN:CA	1.98	0.89
1:B:179:PHE:CB	1:B:288:THR:HB	2.01	0.89
1:B:247:ASP:O	1:F:52:ILE:HD12	1.66	0.89
1:E:183:ASN:HD22	1:E:203:GLU:HA	1.37	0.89
1:F:183:ASN:HB3	1:F:201:ILE:HD11	1.52	0.89
1:G:197:SER:HB3	1:J:183:ASN:ND2	1.87	0.89
1:I:168:ASN:HB3	1:J:71:GLN:CD	1.91	0.89
1:K:52:ILE:HA	1:O:248:THR:HG22	1.52	0.89
1:K:275:LYS:HZ2	1:L:224:ASN:HD21	1.15	0.89
1:K:324:ALA:CB	1:L:49:TYR:CB	2.46	0.89
1:L:179:PHE:CB	1:L:288:THR:HB	2.01	0.89
1:C:106:VAL:HG21	1:C:147:PHE:CZ	2.06	0.89
1:C:245:GLU:N	1:H:320:LYS:HD3	1.85	0.89
1:D:183:ASN:HD22	1:D:203:GLU:HA	1.37	0.89
1:G:224:ASN:HD22	1:H:275:LYS:HZ2	0.94	0.89
1:I:52:ILE:CD1	1:M:247:ASP:C	2.40	0.89
1:L:106:VAL:HG21	1:L:147:PHE:CZ	2.07	0.89
1:M:183:ASN:ND2	1:M:203:GLU:HA	1.85	0.89
1:N:183:ASN:HD22	1:N:203:GLU:HA	1.37	0.89
1:E:71:GLN:CD	1:F:168:ASN:HB3	1.91	0.89
1:E:227:THR:O	1:F:300:TYR:HA	1.70	0.89
1:G:179:PHE:CB	1:G:288:THR:HB	2.01	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:219:ASP:CG	1:H:275:LYS:NZ	2.25	0.89
1:H:272:ARG:HB2	1:K:202:GLU:HA	1.52	0.89
1:J:300:TYR:HA	1:K:227:THR:O	1.70	0.89
1:J:324:ALA:CB	1:K:49:TYR:CB	2.46	0.89
1:L:219:ASP:CB	1:L:224:ASN:HD22	1.85	0.89
1:B:241:LYS:NZ	1:G:305:ILE:HG22	1.88	0.89
1:D:308:ASN:OD1	1:H:231:ALA:HB2	1.71	0.89
1:F:71:GLN:OE1	1:G:168:ASN:ND2	2.01	0.89
1:F:203:GLU:HB2	1:I:197:SER:O	1.73	0.89
1:G:48:GLY:CA	1:H:322:ALA:HA	1.99	0.89
1:G:183:ASN:HB3	1:G:201:ILE:HD11	1.52	0.89
1:O:106:VAL:HG21	1:O:147:PHE:CZ	2.07	0.89
1:F:46:GLU:HG3	1:G:324:ALA:HB3	1.53	0.89
1:G:271:LYS:NZ	1:J:265:ALA:HA	1.87	0.89
1:I:168:ASN:ND2	1:J:71:GLN:OE1	2.01	0.89
1:J:320:LYS:CA	1:O:246:ILE:CD1	2.50	0.89
1:J:324:ALA:HB3	1:K:46:GLU:HG3	1.53	0.89
1:K:52:ILE:CD1	1:O:247:ASP:CA	2.39	0.89
1:C:72:GLY:HA3	1:D:168:ASN:CA	1.98	0.89
1:G:204:HIS:NE2	1:J:274:PHE:HD1	1.55	0.89
1:K:219:ASP:CB	1:K:224:ASN:HD22	1.85	0.89
1:P:82:THR:HB	1:P:84:LEU:HD23	1.55	0.89
1:A:47:ASP:CG	1:B:322:ALA:O	2.00	0.89
1:C:82:THR:HB	1:C:84:LEU:HD23	1.55	0.89
1:E:48:GLY:CA	1:F:322:ALA:CA	2.48	0.89
1:E:219:ASP:OD2	1:F:275:LYS:CE	1.95	0.89
1:F:183:ASN:HD22	1:F:203:GLU:HA	1.37	0.89
1:G:49:TYR:CB	1:H:324:ALA:CB	2.46	0.89
1:G:71:GLN:CD	1:H:168:ASN:HB3	1.91	0.89
1:G:186:PHE:CD2	1:G:269:ILE:HD11	2.08	0.89
1:H:272:ARG:CB	1:K:202:GLU:HA	2.03	0.89
1:M:183:ASN:HD22	1:M:203:GLU:HA	1.37	0.89
1:A:82:THR:HB	1:A:84:LEU:HD23	1.55	0.89
1:B:82:THR:HB	1:B:84:LEU:HD23	1.55	0.89
1:B:241:LYS:CA	1:G:166:GLN:NE2	2.22	0.89
1:F:48:GLY:CA	1:G:322:ALA:HA	1.99	0.89
1:H:186:PHE:CD2	1:H:269:ILE:HD11	2.08	0.89
1:H:197:SER:O	1:K:203:GLU:HB2	1.71	0.89
1:I:278:GLN:N	1:J:219:ASP:H	1.71	0.89
1:J:219:ASP:CB	1:J:224:ASN:HD22	1.85	0.89
1:M:82:THR:HB	1:M:84:LEU:HD23	1.55	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:320:LYS:HD3	1:N:49:TYR:CE1	2.08	0.89
1:O:82:THR:HB	1:O:84:LEU:HD23	1.55	0.89
1:A:49:TYR:CE1	1:B:320:LYS:HD3	2.08	0.88
1:B:49:TYR:CE1	1:C:320:LYS:HD3	2.08	0.88
1:F:274:PHE:HD1	1:I:204:HIS:NE2	1.63	0.88
1:J:278:GLN:N	1:K:219:ASP:H	1.71	0.88
1:J:322:ALA:CA	1:K:48:GLY:CA	2.48	0.88
1:A:186:PHE:CD2	1:A:269:ILE:HD11	2.08	0.88
1:C:186:PHE:CD2	1:C:269:ILE:HD11	2.08	0.88
1:D:82:THR:HB	1:D:84:LEU:HD23	1.55	0.88
1:F:224:ASN:HD22	1:G:275:LYS:HZ2	0.91	0.88
1:F:225:LEU:HD12	1:G:300:TYR:HE2	1.38	0.88
1:J:165:GLU:HG2	1:O:241:LYS:O	1.72	0.88
1:N:82:THR:HB	1:N:84:LEU:HD23	1.55	0.88
1:B:186:PHE:CD2	1:B:269:ILE:HD11	2.08	0.88
1:G:265:ALA:HA	1:J:271:LYS:NZ	1.87	0.88
1:H:271:LYS:CE	1:K:202:GLU:HG3	2.03	0.88
1:I:324:ALA:CB	1:J:49:TYR:CB	2.46	0.88
1:J:275:LYS:HZ2	1:K:224:ASN:HD22	0.91	0.88
1:J:309:ASN:O	1:O:229:GLU:OE2	1.90	0.88
1:K:278:GLN:N	1:L:219:ASP:H	1.71	0.88
1:L:59:ILE:HG21	1:L:92:THR:HG22	1.53	0.88
1:O:320:LYS:HE3	1:P:50:ILE:HG12	1.53	0.88
1:A:227:THR:HG23	1:B:300:TYR:N	1.64	0.88
1:E:46:GLU:CG	1:F:324:ALA:CB	2.34	0.88
1:F:271:LYS:HE3	1:I:202:GLU:HG3	1.55	0.88
1:N:320:LYS:HD3	1:O:49:TYR:CE1	2.08	0.88
1:G:233:SER:O	1:H:277:ASP:OD2	1.91	0.88
1:I:219:ASP:CB	1:I:224:ASN:HD22	1.85	0.88
1:J:168:ASN:CB	1:K:71:GLN:CD	2.42	0.88
1:K:300:TYR:HE2	1:L:225:LEU:HD12	1.38	0.88
1:C:76:SER:OG	1:D:163:PHE:HA	1.74	0.88
1:E:219:ASP:CB	1:E:224:ASN:HD22	1.85	0.88
1:F:71:GLN:CD	1:G:168:ASN:CB	2.42	0.88
1:F:197:SER:OG	1:I:183:ASN:OD1	1.91	0.88
1:F:202:GLU:HG3	1:I:271:LYS:CE	2.02	0.88
1:F:233:SER:O	1:G:277:ASP:OD2	1.91	0.88
1:G:219:ASP:OD2	1:H:275:LYS:CE	1.95	0.88
1:I:186:PHE:CD2	1:I:269:ILE:HD11	2.08	0.88
1:I:275:LYS:CE	1:J:219:ASP:OD2	1.95	0.88
1:K:324:ALA:HB3	1:L:46:GLU:HG3	1.53	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:323:VAL:HG23	1:N:47:ASP:CA	1.95	0.88
1:A:76:SER:OG	1:B:163:PHE:HA	1.74	0.88
1:B:248:THR:HA	1:F:52:ILE:CG2	2.03	0.88
1:B:252:THR:HG21	1:F:53:GLU:HG3	1.55	0.88
1:C:49:TYR:CE1	1:D:320:LYS:HD3	2.08	0.88
1:E:46:GLU:HG3	1:F:324:ALA:HB3	1.53	0.88
1:E:233:SER:O	1:F:277:ASP:OD2	1.91	0.88
1:I:166:GLN:O	1:N:241:LYS:HA	1.73	0.88
1:I:275:LYS:NZ	1:J:219:ASP:CG	2.25	0.88
1:J:275:LYS:NZ	1:K:219:ASP:CG	2.25	0.88
1:O:170:LYS:NZ	1:P:79:THR:O	1.94	0.88
1:A:248:THR:HG23	1:E:52:ILE:HD13	1.54	0.88
1:F:219:ASP:CB	1:F:224:ASN:HD22	1.85	0.88
1:I:322:ALA:CA	1:J:48:GLY:CA	2.48	0.88
1:J:322:ALA:HA	1:K:48:GLY:CA	1.99	0.88
1:K:166:GLN:HE22	1:P:241:LYS:HB2	1.12	0.88
1:K:325:LYS:CE	1:L:46:GLU:OE2	2.22	0.88
1:M:163:PHE:HA	1:N:76:SER:OG	1.74	0.88
1:B:248:THR:CA	1:F:52:ILE:HG23	2.04	0.88
1:F:186:PHE:CD2	1:F:269:ILE:HD11	2.08	0.88
1:F:219:ASP:H	1:G:278:GLN:N	1.71	0.88
1:G:59:ILE:HG21	1:G:92:THR:HG22	1.53	0.88
1:J:52:ILE:HD12	1:N:248:THR:N	1.89	0.88
1:J:300:TYR:HE2	1:K:225:LEU:HD12	1.38	0.88
1:M:186:PHE:CD2	1:M:269:ILE:HD11	2.08	0.88
1:A:222:ASN:HB2	1:A:237:ASN:N	1.90	0.88
1:G:219:ASP:CB	1:G:224:ASN:HD22	1.85	0.88
1:J:325:LYS:CE	1:K:46:GLU:OE2	2.22	0.88
1:L:50:ILE:CG2	1:P:246:ILE:CD1	2.01	0.88
1:N:186:PHE:CD2	1:N:269:ILE:HD11	2.08	0.88
1:N:323:VAL:HG23	1:O:47:ASP:CA	1.95	0.88
1:E:71:GLN:CD	1:F:168:ASN:CB	2.42	0.87
1:G:219:ASP:H	1:H:278:GLN:N	1.71	0.87
1:H:222:ASN:HB2	1:H:237:ASN:N	1.90	0.87
1:I:277:ASP:OD2	1:J:233:SER:O	1.91	0.87
1:L:186:PHE:CD2	1:L:269:ILE:HD11	2.08	0.87
1:N:163:PHE:HA	1:O:76:SER:OG	1.74	0.87
1:O:320:LYS:HD3	1:P:49:TYR:CE1	2.08	0.87
1:E:222:ASN:HB2	1:E:237:ASN:N	1.89	0.87
1:G:183:ASN:ND2	1:J:197:SER:HB3	1.87	0.87
1:I:325:LYS:CE	1:J:46:GLU:OE2	2.22	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:186:PHE:CD2	1:K:269:ILE:HD11	2.08	0.87
1:K:307:THR:C	1:P:230:GLN:HB2	1.93	0.87
1:N:222:ASN:HB2	1:N:237:ASN:N	1.90	0.87
1:D:186:PHE:CD2	1:D:269:ILE:HD11	2.08	0.87
1:D:289:THR:HG21	1:D:306:ILE:HD13	1.57	0.87
1:F:289:THR:HG21	1:F:306:ILE:HD13	1.57	0.87
1:K:168:ASN:CB	1:L:71:GLN:CD	2.42	0.87
1:L:289:THR:HG21	1:L:306:ILE:HD13	1.57	0.87
1:A:32:ASP:HB3	1:A:34:LYS:HB2	1.56	0.87
1:B:41:LYS:HE3	1:C:170:LYS:HB3	1.57	0.87
1:C:289:THR:HG21	1:C:306:ILE:HD13	1.57	0.87
1:E:71:GLN:OE1	1:F:168:ASN:ND2	2.01	0.87
1:E:186:PHE:CD2	1:E:269:ILE:HD11	2.08	0.87
1:I:165:GLU:HG2	1:N:241:LYS:O	1.74	0.87
1:I:168:ASN:CB	1:J:71:GLN:CD	2.42	0.87
1:I:289:THR:HG21	1:I:306:ILE:HD13	1.57	0.87
1:L:222:ASN:HB2	1:L:237:ASN:N	1.89	0.87
1:F:222:ASN:HB2	1:F:237:ASN:N	1.89	0.87
1:G:289:THR:HG21	1:G:306:ILE:HD13	1.57	0.87
1:H:219:ASP:CB	1:H:224:ASN:HD22	1.85	0.87
1:J:186:PHE:CD2	1:J:269:ILE:HD11	2.08	0.87
1:J:277:ASP:OD2	1:K:233:SER:O	1.91	0.87
1:K:277:ASP:OD2	1:L:233:SER:O	1.91	0.87
1:K:289:THR:HG21	1:K:306:ILE:HD13	1.57	0.87
1:N:322:ALA:O	1:O:47:ASP:CG	2.00	0.87
1:O:323:VAL:HG23	1:P:47:ASP:CA	1.95	0.87
1:P:186:PHE:CD2	1:P:269:ILE:HD11	2.08	0.87
1:B:32:ASP:HB3	1:B:34:LYS:HB2	1.56	0.87
1:C:32:ASP:HB3	1:C:34:LYS:HB2	1.56	0.87
1:C:222:ASN:HB2	1:C:237:ASN:N	1.90	0.87
1:E:32:ASP:HB3	1:E:34:LYS:HB2	1.56	0.87
1:E:219:ASP:CG	1:F:275:LYS:NZ	2.25	0.87
1:G:71:GLN:CD	1:H:168:ASN:CB	2.42	0.87
1:I:165:GLU:CA	1:N:241:LYS:O	2.22	0.87
1:J:168:ASN:ND2	1:K:71:GLN:OE1	2.01	0.87
1:K:222:ASN:HB2	1:K:237:ASN:N	1.89	0.87
1:O:186:PHE:CD2	1:O:269:ILE:HD11	2.08	0.87
1:B:47:ASP:O	1:C:319:TYR:O	1.93	0.87
1:B:240:MET:HE2	1:F:73:VAL:HB	1.44	0.87
1:C:59:ILE:HG23	1:C:66:TYR:HB2	1.57	0.87
1:C:245:GLU:CB	1:G:75:ASP:HA	2.05	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:59:ILE:HG23	1:D:66:TYR:HB2	1.57	0.87
1:E:82:THR:HB	1:E:84:LEU:HD23	1.55	0.87
1:I:308:ASN:OD1	1:N:230:GLN:HA	1.75	0.87
1:J:52:ILE:CD1	1:N:247:ASP:O	2.19	0.87
1:K:166:GLN:O	1:P:241:LYS:HA	1.75	0.87
1:L:82:THR:HB	1:L:84:LEU:HD23	1.55	0.87
1:D:248:THR:HG23	1:H:52:ILE:HD12	1.57	0.87
1:E:289:THR:HG21	1:E:306:ILE:HD13	1.57	0.87
1:F:120:ALA:N	1:I:119:ASN:OD1	2.08	0.87
1:G:46:GLU:OE2	1:H:325:LYS:CE	2.22	0.87
1:H:268:LEU:HD11	1:K:268:LEU:CA	1.99	0.87
1:I:300:TYR:HE2	1:J:225:LEU:HD12	1.38	0.87
1:J:322:ALA:C	1:K:48:GLY:C	2.34	0.87
1:K:275:LYS:CE	1:L:219:ASP:OD2	1.95	0.87
1:K:322:ALA:C	1:L:48:GLY:C	2.34	0.87
1:N:300:TYR:N	1:O:227:THR:HG23	1.64	0.87
1:O:163:PHE:HA	1:P:76:SER:OG	1.74	0.87
1:A:47:ASP:O	1:B:319:TYR:O	1.93	0.87
1:C:41:LYS:HE3	1:D:170:LYS:HB3	1.57	0.87
1:C:47:ASP:O	1:D:319:TYR:O	1.93	0.87
1:C:246:ILE:HG12	1:G:50:ILE:O	1.75	0.87
1:E:225:LEU:HD12	1:F:300:TYR:HE2	1.38	0.87
1:H:82:THR:HB	1:H:84:LEU:HD23	1.55	0.87
1:I:222:ASN:HB2	1:I:237:ASN:N	1.89	0.87
1:I:322:ALA:C	1:J:48:GLY:C	2.34	0.87
1:J:59:ILE:HG23	1:J:66:TYR:HB2	1.57	0.87
1:K:59:ILE:HG23	1:K:66:TYR:HB2	1.57	0.87
1:L:59:ILE:HG23	1:L:66:TYR:HB2	1.57	0.87
1:N:320:LYS:HE3	1:O:50:ILE:HG12	1.54	0.87
1:P:222:ASN:HB2	1:P:237:ASN:N	1.90	0.87
1:A:41:LYS:HE3	1:B:170:LYS:HB3	1.57	0.86
1:B:59:ILE:HG23	1:B:66:TYR:HB2	1.57	0.86
1:C:49:TYR:CE1	1:D:320:LYS:CD	2.58	0.86
1:D:32:ASP:HB3	1:D:34:LYS:HB2	1.56	0.86
1:D:222:ASN:HB2	1:D:237:ASN:N	1.90	0.86
1:E:46:GLU:OE2	1:F:325:LYS:CE	2.21	0.86
1:F:272:ARG:NH1	1:I:201:ILE:CG1	2.33	0.86
1:H:32:ASP:HB3	1:H:34:LYS:HB2	1.56	0.86
1:I:275:LYS:HZ2	1:J:224:ASN:HD21	1.22	0.86
1:J:289:THR:HG21	1:J:306:ILE:HD13	1.57	0.86
1:F:46:GLU:OE2	1:G:325:LYS:CE	2.22	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:82:THR:HB	1:F:84:LEU:HD23	1.55	0.86
1:G:218:THR:HG1	1:H:278:GLN:H	1.23	0.86
1:J:73:VAL:HG21	1:N:240:MET:HE3	0.87	0.86
1:A:59:ILE:HG23	1:A:66:TYR:HB2	1.57	0.86
1:E:49:TYR:CB	1:F:324:ALA:CB	2.46	0.86
1:F:32:ASP:CB	1:F:34:LYS:HB2	2.06	0.86
1:F:59:ILE:HG23	1:F:66:TYR:HB2	1.57	0.86
1:F:197:SER:O	1:I:203:GLU:HA	1.74	0.86
1:F:272:ARG:HG3	1:I:202:GLU:C	1.95	0.86
1:G:32:ASP:CB	1:G:34:LYS:HB2	2.06	0.86
1:H:289:THR:HG21	1:H:306:ILE:HD13	1.57	0.86
1:I:59:ILE:HG23	1:I:66:TYR:HB2	1.57	0.86
1:I:323:VAL:HG11	1:N:246:ILE:HD13	1.18	0.86
1:J:170:LYS:HE2	1:K:79:THR:CA	2.05	0.86
1:K:275:LYS:HZ2	1:L:224:ASN:HD22	0.92	0.86
1:M:32:ASP:HB3	1:M:34:LYS:HB2	1.56	0.86
1:A:50:ILE:CD1	1:B:320:LYS:HE2	2.05	0.86
1:E:32:ASP:CB	1:E:34:LYS:HB2	2.06	0.86
1:E:59:ILE:HG23	1:E:66:TYR:HB2	1.57	0.86
1:F:32:ASP:HB3	1:F:34:LYS:HB2	1.56	0.86
1:G:222:ASN:HB2	1:G:237:ASN:N	1.90	0.86
1:H:32:ASP:CB	1:H:34:LYS:HB2	2.06	0.86
1:H:91:TYR:O	1:H:95:THR:HG23	1.76	0.86
1:H:272:ARG:NH1	1:K:201:ILE:HG23	1.89	0.86
1:J:91:TYR:O	1:J:95:THR:HG23	1.76	0.86
1:J:165:GLU:CG	1:O:241:LYS:O	2.22	0.86
1:K:82:THR:HB	1:K:84:LEU:HD23	1.55	0.86
1:M:32:ASP:CB	1:M:34:LYS:HB2	2.06	0.86
1:P:33:ILE:HD12	1:P:312:TRP:HE1	1.41	0.86
1:B:49:TYR:CE1	1:C:320:LYS:CD	2.58	0.86
1:B:76:SER:OG	1:C:163:PHE:HA	1.74	0.86
1:G:59:ILE:HG23	1:G:66:TYR:HB2	1.57	0.86
1:G:82:THR:HB	1:G:84:LEU:HD23	1.55	0.86
1:G:91:TYR:O	1:G:95:THR:HG23	1.76	0.86
1:I:91:TYR:O	1:I:95:THR:HG23	1.76	0.86
1:K:308:ASN:HD21	1:P:231:ALA:H	1.21	0.86
1:N:32:ASP:CB	1:N:34:LYS:HB2	2.06	0.86
1:O:33:ILE:HD12	1:O:312:TRP:HE1	1.41	0.86
1:O:320:LYS:CD	1:P:49:TYR:CE1	2.58	0.86
1:A:244:GLY:H	1:F:320:LYS:HZ3	1.21	0.86
1:B:50:ILE:CD1	1:C:320:LYS:HE2	2.05	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:246:ILE:HD12	1:G:320:LYS:HA	0.87	0.86
1:E:48:GLY:C	1:F:322:ALA:C	2.34	0.86
1:F:48:GLY:C	1:G:322:ALA:C	2.34	0.86
1:F:91:TYR:O	1:F:95:THR:HG23	1.76	0.86
1:F:199:ARG:O	1:I:201:ILE:HG22	1.74	0.86
1:F:274:PHE:CD1	1:I:204:HIS:CE1	2.63	0.86
1:I:32:ASP:CB	1:I:34:LYS:HB2	2.06	0.86
1:J:32:ASP:CB	1:J:34:LYS:HB2	2.06	0.86
1:J:222:ASN:HB2	1:J:237:ASN:N	1.89	0.86
1:J:307:THR:C	1:O:230:GLN:HB2	1.96	0.86
1:O:32:ASP:CB	1:O:34:LYS:HB2	2.06	0.86
1:P:32:ASP:CB	1:P:34:LYS:HB2	2.06	0.86
1:A:33:ILE:HD12	1:A:312:TRP:HE1	1.41	0.86
1:B:33:ILE:HD12	1:B:312:TRP:HE1	1.41	0.86
1:B:50:ILE:HG12	1:C:320:LYS:CD	2.06	0.86
1:B:289:THR:HG21	1:B:306:ILE:HD13	1.57	0.86
1:C:32:ASP:CB	1:C:34:LYS:HB2	2.06	0.86
1:C:50:ILE:HG12	1:D:320:LYS:CD	2.06	0.86
1:C:50:ILE:CD1	1:D:320:LYS:HE2	2.05	0.86
1:C:230:GLN:HB2	1:H:306:ILE:HG13	1.58	0.86
1:D:91:TYR:O	1:D:95:THR:HG23	1.76	0.86
1:G:48:GLY:C	1:H:322:ALA:C	2.34	0.86
1:H:59:ILE:HG23	1:H:66:TYR:HB2	1.57	0.86
1:H:272:ARG:CG	1:K:203:GLU:N	2.17	0.86
1:J:32:ASP:HB3	1:J:34:LYS:HB2	1.56	0.86
1:J:82:THR:HB	1:J:84:LEU:HD23	1.55	0.86
1:J:308:ASN:HD21	1:O:231:ALA:N	1.70	0.86
1:K:32:ASP:CB	1:K:34:LYS:HB2	2.06	0.86
1:L:52:ILE:HG21	1:P:247:ASP:O	1.76	0.86
1:G:225:LEU:HD12	1:H:300:TYR:HE2	1.38	0.86
1:K:91:TYR:O	1:K:95:THR:HG23	1.76	0.86
1:K:278:GLN:HG2	1:L:218:THR:HG1	1.06	0.86
1:N:320:LYS:CD	1:O:50:ILE:HG12	2.06	0.86
1:O:320:LYS:CD	1:P:50:ILE:HG12	2.06	0.86
1:P:91:TYR:O	1:P:95:THR:HG23	1.76	0.86
1:A:41:LYS:CE	1:B:170:LYS:HB3	2.06	0.86
1:B:41:LYS:CE	1:C:170:LYS:HB3	2.06	0.86
1:I:32:ASP:HB3	1:I:34:LYS:HB2	1.56	0.86
1:I:170:LYS:HE2	1:J:79:THR:CA	2.05	0.86
1:I:320:LYS:CB	1:J:49:TYR:CD1	2.59	0.86
1:J:73:VAL:HB	1:N:240:MET:CE	2.03	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:322:ALA:CA	1:L:48:GLY:CA	2.48	0.86
1:L:32:ASP:CB	1:L:34:LYS:HB2	2.06	0.86
1:L:183:ASN:HD22	1:L:203:GLU:HA	1.37	0.86
1:M:319:TYR:O	1:N:47:ASP:O	1.93	0.86
1:N:33:ILE:HD12	1:N:312:TRP:HE1	1.41	0.86
1:O:91:TYR:O	1:O:95:THR:HG23	1.76	0.86
1:P:289:THR:HG21	1:P:306:ILE:HD13	1.57	0.86
1:A:32:ASP:CB	1:A:34:LYS:HB2	2.06	0.86
1:B:36:VAL:HG11	1:B:96:GLN:NE2	1.91	0.86
1:B:231:ALA:H	1:G:308:ASN:ND2	1.70	0.86
1:C:91:TYR:O	1:C:95:THR:HG23	1.76	0.86
1:F:49:TYR:CB	1:G:324:ALA:CB	2.46	0.86
1:F:201:ILE:HG23	1:I:272:ARG:NH1	1.91	0.86
1:G:198:GLU:CA	1:J:203:GLU:HB2	2.06	0.86
1:K:275:LYS:NZ	1:L:219:ASP:CG	2.25	0.86
1:N:91:TYR:O	1:N:95:THR:HG23	1.76	0.86
1:O:222:ASN:HB2	1:O:237:ASN:N	1.90	0.86
1:A:49:TYR:CE1	1:B:320:LYS:CD	2.58	0.85
1:C:33:ILE:HD12	1:C:312:TRP:HE1	1.41	0.85
1:C:41:LYS:CE	1:D:170:LYS:HB3	2.06	0.85
1:C:227:THR:HG23	1:D:300:TYR:N	1.64	0.85
1:C:240:MET:C	1:H:166:GLN:CG	2.19	0.85
1:C:245:GLU:O	1:G:74:GLU:HA	1.76	0.85
1:C:275:LYS:O	1:C:278:GLN:HG2	1.76	0.85
1:D:33:ILE:HD12	1:D:312:TRP:HE1	1.41	0.85
1:E:91:TYR:O	1:E:95:THR:HG23	1.76	0.85
1:G:203:GLU:HB2	1:J:198:GLU:CA	2.06	0.85
1:I:82:THR:HB	1:I:84:LEU:HD23	1.55	0.85
1:J:275:LYS:NZ	1:K:224:ASN:HD21	1.72	0.85
1:M:33:ILE:HD12	1:M:312:TRP:HE1	1.41	0.85
1:M:36:VAL:HG11	1:M:96:GLN:NE2	1.91	0.85
1:M:170:LYS:HB3	1:N:41:LYS:HE3	1.57	0.85
1:M:320:LYS:CD	1:N:50:ILE:HG12	2.06	0.85
1:N:170:LYS:HB3	1:O:41:LYS:CE	2.06	0.85
1:O:289:THR:HG21	1:O:306:ILE:HD13	1.57	0.85
1:B:91:TYR:O	1:B:95:THR:HG23	1.76	0.85
1:B:246:ILE:N	1:F:49:TYR:CZ	2.43	0.85
1:B:247:ASP:CA	1:F:52:ILE:CD1	2.44	0.85
1:D:246:ILE:HA	1:H:50:ILE:O	1.76	0.85
1:E:48:GLY:CA	1:F:322:ALA:HA	1.99	0.85
1:E:219:ASP:H	1:F:278:GLN:N	1.71	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:36:VAL:HG11	1:F:96:GLN:NE2	1.91	0.85
1:F:272:ARG:HB2	1:I:202:GLU:HG2	1.58	0.85
1:F:275:LYS:O	1:F:278:GLN:HG2	1.76	0.85
1:I:74:GLU:HA	1:M:245:GLU:O	1.75	0.85
1:J:166:GLN:HA	1:O:242:LYS:C	1.95	0.85
1:K:32:ASP:HB3	1:K:34:LYS:HB2	1.56	0.85
1:L:91:TYR:O	1:L:95:THR:HG23	1.76	0.85
1:M:91:TYR:O	1:M:95:THR:HG23	1.76	0.85
1:M:170:LYS:HB3	1:N:41:LYS:CE	2.06	0.85
1:N:32:ASP:HB3	1:N:34:LYS:HB2	1.56	0.85
1:B:242:LYS:O	1:G:166:GLN:HA	1.76	0.85
1:E:49:TYR:CD1	1:F:320:LYS:CB	2.59	0.85
1:E:275:LYS:O	1:E:278:GLN:HG2	1.76	0.85
1:H:36:VAL:HG11	1:H:96:GLN:NE2	1.91	0.85
1:L:33:ILE:HD12	1:L:312:TRP:HE1	1.41	0.85
1:M:320:LYS:CD	1:N:49:TYR:CE1	2.58	0.85
1:O:170:LYS:HB3	1:P:41:LYS:CE	2.06	0.85
1:A:230:GLN:CA	1:F:308:ASN:CG	2.43	0.85
1:B:222:ASN:HB2	1:B:237:ASN:N	1.90	0.85
1:B:275:LYS:O	1:B:278:GLN:HG2	1.76	0.85
1:E:36:VAL:HG11	1:E:96:GLN:NE2	1.91	0.85
1:E:79:THR:CA	1:F:170:LYS:HE2	2.05	0.85
1:F:43:TYR:CE1	1:F:70:GLU:HG2	2.12	0.85
1:G:275:LYS:O	1:G:278:GLN:HG2	1.76	0.85
1:H:43:TYR:CE1	1:H:70:GLU:HG2	2.12	0.85
1:J:278:GLN:HG2	1:K:218:THR:HG1	1.06	0.85
1:J:324:ALA:CB	1:K:46:GLU:CG	2.34	0.85
1:K:166:GLN:CA	1:P:242:LYS:C	2.38	0.85
1:N:319:TYR:O	1:O:47:ASP:O	1.93	0.85
1:O:169:PHE:O	1:P:79:THR:CB	2.25	0.85
1:E:33:ILE:HD12	1:E:312:TRP:HE1	1.41	0.85
1:F:49:TYR:CD1	1:G:320:LYS:CB	2.59	0.85
1:G:79:THR:CA	1:H:170:LYS:HE2	2.05	0.85
1:H:272:ARG:NH1	1:K:201:ILE:CG1	1.95	0.85
1:I:36:VAL:HG11	1:I:96:GLN:NE2	1.91	0.85
1:M:222:ASN:HB2	1:M:237:ASN:N	1.90	0.85
1:N:36:VAL:HG11	1:N:96:GLN:NE2	1.91	0.85
1:N:320:LYS:CD	1:O:49:TYR:CE1	2.58	0.85
1:P:32:ASP:HB3	1:P:34:LYS:HB2	1.56	0.85
1:A:47:ASP:CA	1:B:323:VAL:HG23	1.95	0.85
1:A:91:TYR:O	1:A:95:THR:HG23	1.76	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:32:ASP:CB	1:B:34:LYS:HB2	2.06	0.85
1:C:36:VAL:HG11	1:C:96:GLN:NE2	1.91	0.85
1:C:52:ILE:N	1:C:74:GLU:HG2	1.92	0.85
1:F:224:ASN:HD21	1:G:275:LYS:NZ	1.73	0.85
1:I:52:ILE:N	1:I:74:GLU:HG2	1.92	0.85
1:J:43:TYR:CE1	1:J:70:GLU:HG2	2.12	0.85
1:K:43:TYR:CE1	1:K:70:GLU:HG2	2.12	0.85
1:K:52:ILE:HG12	1:O:245:GLU:O	1.77	0.85
1:L:43:TYR:CE1	1:L:70:GLU:HG2	2.12	0.85
1:N:169:PHE:O	1:O:79:THR:CB	2.25	0.85
1:O:32:ASP:HB3	1:O:34:LYS:HB2	1.56	0.85
1:A:232:GLU:H	1:F:308:ASN:ND2	1.75	0.85
1:C:45:LEU:HB2	1:C:67:LEU:HD11	1.58	0.85
1:E:36:VAL:HG21	1:E:38:PHE:CE2	2.12	0.85
1:E:52:ILE:N	1:E:74:GLU:HG2	1.92	0.85
1:F:79:THR:CA	1:G:170:LYS:HE2	2.05	0.85
1:K:170:LYS:HE2	1:L:79:THR:CA	2.05	0.85
1:L:275:LYS:O	1:L:278:GLN:HG2	1.76	0.85
1:O:319:TYR:O	1:P:47:ASP:O	1.93	0.85
1:A:36:VAL:HG11	1:A:96:GLN:NE2	1.91	0.85
1:C:47:ASP:CG	1:D:322:ALA:O	2.00	0.85
1:D:45:LEU:HB2	1:D:67:LEU:HD11	1.58	0.85
1:G:49:TYR:CD1	1:H:320:LYS:CB	2.59	0.85
1:I:43:TYR:CE1	1:I:70:GLU:HG2	2.12	0.85
1:I:320:LYS:CA	1:N:246:ILE:CD1	2.54	0.85
1:J:52:ILE:N	1:J:74:GLU:HG2	1.92	0.85
1:K:33:ILE:HD12	1:K:312:TRP:HE1	1.41	0.85
1:K:168:ASN:ND2	1:L:71:GLN:OE1	2.01	0.85
1:M:275:LYS:O	1:M:278:GLN:HG2	1.76	0.85
1:P:43:TYR:CE1	1:P:70:GLU:HG2	2.12	0.85
1:A:36:VAL:HG21	1:A:38:PHE:CE2	2.12	0.85
1:A:79:THR:CB	1:B:192:CYS:HB3	2.06	0.85
1:A:222:ASN:ND2	1:A:237:ASN:HB2	1.92	0.85
1:B:45:LEU:HB2	1:B:67:LEU:HD11	1.58	0.85
1:B:47:ASP:CA	1:C:323:VAL:HG23	1.95	0.85
1:B:79:THR:CB	1:C:192:CYS:HB3	2.06	0.85
1:C:186:PHE:CE2	1:C:269:ILE:HD11	2.12	0.85
1:F:36:VAL:HG21	1:F:38:PHE:CE2	2.12	0.85
1:H:119:ASN:OD1	1:K:120:ALA:N	2.10	0.85
1:K:186:PHE:CE2	1:K:269:ILE:HD11	2.12	0.85
1:K:275:LYS:O	1:K:278:GLN:HG2	1.76	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:32:ASP:CB	1:D:34:LYS:HB2	2.06	0.85
1:M:59:ILE:HG23	1:M:66:TYR:HB2	1.57	0.85
1:M:186:PHE:CE2	1:M:269:ILE:HD11	2.12	0.85
1:M:289:THR:HG21	1:M:306:ILE:HD13	1.57	0.85
1:O:192:CYS:HB3	1:P:79:THR:CB	2.06	0.85
1:B:222:ASN:ND2	1:B:237:ASN:HB2	1.92	0.84
1:C:308:ASN:ND2	1:G:241:LYS:O	2.09	0.84
1:D:36:VAL:HG21	1:D:38:PHE:CE2	2.12	0.84
1:D:245:GLU:HB3	1:H:75:ASP:CA	2.07	0.84
1:F:52:ILE:N	1:F:74:GLU:HG2	1.91	0.84
1:F:222:ASN:ND2	1:F:237:ASN:HB2	1.92	0.84
1:G:32:ASP:HB3	1:G:34:LYS:HB2	1.56	0.84
1:H:33:ILE:HD12	1:H:312:TRP:HE1	1.41	0.84
1:H:275:LYS:O	1:H:278:GLN:HG2	1.76	0.84
1:I:222:ASN:ND2	1:I:237:ASN:HB2	1.92	0.84
1:K:36:VAL:HG21	1:K:38:PHE:CE2	2.12	0.84
1:M:170:LYS:NZ	1:N:79:THR:O	1.94	0.84
1:M:192:CYS:HB3	1:N:79:THR:CB	2.06	0.84
1:O:19:THR:HG23	1:O:40:THR:HG22	1.58	0.84
1:O:43:TYR:CE1	1:O:70:GLU:HG2	2.12	0.84
1:P:36:VAL:HG11	1:P:96:GLN:NE2	1.91	0.84
1:C:79:THR:O	1:D:170:LYS:NZ	1.94	0.84
1:C:240:MET:HE2	1:G:73:VAL:HG23	1.58	0.84
1:C:246:ILE:CD1	1:H:323:VAL:HG22	1.80	0.84
1:D:275:LYS:O	1:D:278:GLN:HG2	1.76	0.84
1:F:45:LEU:HB2	1:F:67:LEU:HD11	1.58	0.84
1:I:45:LEU:HB2	1:I:67:LEU:HD11	1.58	0.84
1:I:186:PHE:CE2	1:I:269:ILE:HD11	2.12	0.84
1:L:36:VAL:HG21	1:L:38:PHE:CE2	2.12	0.84
1:N:19:THR:HG23	1:N:40:THR:HG22	1.58	0.84
1:N:36:VAL:HG21	1:N:38:PHE:CE2	2.12	0.84
1:N:170:LYS:NZ	1:O:79:THR:O	1.94	0.84
1:N:186:PHE:CE2	1:N:269:ILE:HD11	2.12	0.84
1:A:45:LEU:HB2	1:A:67:LEU:HD11	1.58	0.84
1:A:275:LYS:O	1:A:278:GLN:HG2	1.76	0.84
1:C:79:THR:CB	1:D:192:CYS:HB3	2.06	0.84
1:C:222:ASN:ND2	1:C:237:ASN:HB2	1.92	0.84
1:F:201:ILE:CG1	1:I:272:ARG:NH1	1.93	0.84
1:G:36:VAL:HG11	1:G:96:GLN:NE2	1.91	0.84
1:I:309:ASN:O	1:N:229:GLU:CD	2.11	0.84
1:J:275:LYS:O	1:J:278:GLN:HG2	1.76	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:32:ASP:HB3	1:L:34:LYS:HB2	1.56	0.84
1:L:36:VAL:HG11	1:L:96:GLN:NE2	1.91	0.84
1:L:49:TYR:CZ	1:P:246:ILE:N	2.43	0.84
1:L:222:ASN:ND2	1:L:237:ASN:HB2	1.92	0.84
1:M:320:LYS:HE3	1:N:50:ILE:HG12	1.54	0.84
1:N:43:TYR:CE1	1:N:70:GLU:HG2	2.12	0.84
1:N:59:ILE:HG23	1:N:66:TYR:HB2	1.57	0.84
1:O:170:LYS:HB3	1:P:41:LYS:HE3	1.57	0.84
1:O:284:PHE:CE2	1:O:296:ILE:HG21	2.13	0.84
1:P:19:THR:HG23	1:P:40:THR:HG22	1.58	0.84
1:P:284:PHE:CE2	1:P:296:ILE:HG21	2.13	0.84
1:D:19:THR:HG23	1:D:40:THR:HG22	1.58	0.84
1:E:45:LEU:HB2	1:E:67:LEU:HD11	1.58	0.84
1:E:284:PHE:CE2	1:E:296:ILE:HG21	2.13	0.84
1:F:33:ILE:HD12	1:F:312:TRP:HE1	1.41	0.84
1:F:202:GLU:C	1:I:272:ARG:HG3	1.97	0.84
1:F:218:THR:HG1	1:G:278:GLN:H	1.23	0.84
1:G:186:PHE:CE2	1:G:269:ILE:HD11	2.12	0.84
1:H:19:THR:HG23	1:H:40:THR:HG22	1.57	0.84
1:H:36:VAL:HG21	1:H:38:PHE:CE2	2.12	0.84
1:I:75:ASP:HA	1:M:245:GLU:CB	2.07	0.84
1:I:231:ALA:CB	1:M:308:ASN:OD1	2.24	0.84
1:N:52:ILE:N	1:N:74:GLU:HG2	1.92	0.84
1:N:284:PHE:CE2	1:N:296:ILE:HG21	2.13	0.84
1:N:289:THR:HG21	1:N:306:ILE:HD13	1.57	0.84
1:O:222:ASN:ND2	1:O:237:ASN:HB2	1.92	0.84
1:B:36:VAL:HG21	1:B:38:PHE:CE2	2.12	0.84
1:D:52:ILE:N	1:D:74:GLU:HG2	1.92	0.84
1:D:186:PHE:CE2	1:D:269:ILE:HD11	2.12	0.84
1:E:186:PHE:CE2	1:E:269:ILE:HD11	2.12	0.84
1:E:222:ASN:ND2	1:E:237:ASN:HB2	1.92	0.84
1:F:204:HIS:CG	1:I:271:LYS:O	2.29	0.84
1:G:19:THR:HG23	1:G:40:THR:HG22	1.57	0.84
1:G:45:LEU:HB2	1:G:67:LEU:HD11	1.58	0.84
1:H:45:LEU:HB2	1:H:67:LEU:HD11	1.58	0.84
1:H:204:HIS:CE1	1:K:274:PHE:CD1	2.66	0.84
1:K:52:ILE:N	1:K:74:GLU:HG2	1.92	0.84
1:O:59:ILE:HG23	1:O:66:TYR:HB2	1.57	0.84
1:A:43:TYR:CE1	1:A:70:GLU:HG2	2.12	0.84
1:A:50:ILE:HG12	1:B:320:LYS:HE3	1.53	0.84
1:B:186:PHE:CE2	1:B:269:ILE:HD11	2.12	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:247:ASP:O	1:H:52:ILE:HG21	1.77	0.84
1:G:33:ILE:HD12	1:G:312:TRP:HE1	1.41	0.84
1:G:284:PHE:CE2	1:G:296:ILE:HG21	2.13	0.84
1:I:275:LYS:O	1:I:278:GLN:HG2	1.76	0.84
1:I:284:PHE:CE2	1:I:296:ILE:HG21	2.13	0.84
1:J:45:LEU:HB2	1:J:67:LEU:HD11	1.58	0.84
1:J:186:PHE:CE2	1:J:269:ILE:HD11	2.12	0.84
1:J:308:ASN:ND2	1:O:230:GLN:C	2.31	0.84
1:K:36:VAL:HG11	1:K:96:GLN:NE2	1.91	0.84
1:O:186:PHE:CE2	1:O:269:ILE:HD11	2.12	0.84
1:P:36:VAL:HG21	1:P:38:PHE:CE2	2.12	0.84
1:P:222:ASN:ND2	1:P:237:ASN:HB2	1.92	0.84
1:A:52:ILE:N	1:A:74:GLU:HG2	1.92	0.84
1:A:78:GLU:HG2	1:B:170:LYS:N	1.93	0.84
1:B:43:TYR:CE1	1:B:70:GLU:HG2	2.12	0.84
1:B:52:ILE:N	1:B:74:GLU:HG2	1.92	0.84
1:C:36:VAL:HG21	1:C:38:PHE:CE2	2.12	0.84
1:C:43:TYR:CE1	1:C:70:GLU:HG2	2.12	0.84
1:D:43:TYR:CE1	1:D:70:GLU:HG2	2.12	0.84
1:F:19:THR:HG23	1:F:40:THR:HG22	1.58	0.84
1:F:186:PHE:CE2	1:F:269:ILE:HD11	2.12	0.84
1:G:271:LYS:C	1:J:202:GLU:OE2	2.15	0.84
1:H:222:ASN:ND2	1:H:237:ASN:HB2	1.92	0.84
1:J:33:ILE:HD12	1:J:312:TRP:HE1	1.41	0.84
1:K:49:TYR:CE2	1:O:245:GLU:C	2.40	0.84
1:M:19:THR:HG23	1:M:40:THR:HG22	1.58	0.84
1:M:52:ILE:N	1:M:74:GLU:HG2	1.92	0.84
1:M:277:ASP:HB2	1:N:218:THR:OG1	1.78	0.84
1:N:222:ASN:ND2	1:N:237:ASN:HB2	1.92	0.84
1:P:52:ILE:N	1:P:74:GLU:HG2	1.92	0.84
1:A:218:THR:OG1	1:B:277:ASP:HB2	1.78	0.84
1:A:289:THR:HG21	1:A:306:ILE:HD13	1.57	0.84
1:B:218:THR:OG1	1:C:277:ASP:HB2	1.78	0.84
1:C:79:THR:CB	1:D:169:PHE:O	2.25	0.84
1:D:222:ASN:ND2	1:D:237:ASN:HB2	1.92	0.84
1:F:202:GLU:HG3	1:I:271:LYS:CG	2.08	0.84
1:G:95:THR:CG2	1:G:136:ILE:HG21	2.08	0.84
1:I:278:GLN:HG2	1:J:218:THR:HG1	1.05	0.84
1:J:36:VAL:HG11	1:J:96:GLN:NE2	1.91	0.84
1:J:70:GLU:OE1	1:J:74:GLU:HB3	1.78	0.84
1:K:95:THR:CG2	1:K:136:ILE:HG21	2.08	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:95:THR:CG2	1:L:136:ILE:HG21	2.08	0.84
1:M:43:TYR:CE1	1:M:70:GLU:HG2	2.12	0.84
1:M:284:PHE:CE2	1:M:296:ILE:HG21	2.13	0.84
1:N:70:GLU:OE1	1:N:74:GLU:HB3	1.78	0.84
1:N:170:LYS:HB3	1:O:41:LYS:HE3	1.57	0.84
1:O:36:VAL:HG11	1:O:96:GLN:NE2	1.91	0.84
1:O:320:LYS:HE2	1:P:50:ILE:CD1	2.05	0.84
1:C:284:PHE:CE2	1:C:296:ILE:HG21	2.13	0.84
1:D:284:PHE:CE2	1:D:296:ILE:HG21	2.13	0.84
1:E:19:THR:HG23	1:E:40:THR:HG22	1.58	0.84
1:G:36:VAL:HG21	1:G:38:PHE:CE2	2.12	0.84
1:I:19:THR:HG23	1:I:40:THR:HG22	1.58	0.84
1:I:95:THR:CG2	1:I:136:ILE:HG21	2.08	0.84
1:J:36:VAL:HG21	1:J:38:PHE:CE2	2.12	0.84
1:J:305:ILE:HG22	1:O:241:LYS:NZ	1.92	0.84
1:K:284:PHE:CE2	1:K:296:ILE:HG21	2.13	0.84
1:L:52:ILE:N	1:L:74:GLU:HG2	1.92	0.84
1:M:170:LYS:N	1:N:78:GLU:HG2	1.93	0.84
1:P:59:ILE:HG23	1:P:66:TYR:HB2	1.57	0.84
1:P:95:THR:CG2	1:P:136:ILE:HG21	2.08	0.84
1:P:275:LYS:O	1:P:278:GLN:HG2	1.76	0.84
1:A:19:THR:HG23	1:A:40:THR:HG22	1.58	0.84
1:E:218:THR:HG1	1:F:278:GLN:HG2	1.04	0.84
1:F:70:GLU:OE1	1:F:74:GLU:HB3	1.78	0.84
1:F:268:LEU:HD11	1:I:268:LEU:HA	1.58	0.84
1:H:284:PHE:CE2	1:H:296:ILE:HG21	2.13	0.84
1:I:36:VAL:HG21	1:I:38:PHE:CE2	2.12	0.84
1:J:19:THR:HG23	1:J:40:THR:HG22	1.58	0.84
1:J:95:THR:CG2	1:J:136:ILE:HG21	2.08	0.84
1:K:45:LEU:HB2	1:K:67:LEU:HD11	1.58	0.84
1:K:222:ASN:ND2	1:K:237:ASN:HB2	1.92	0.84
1:N:95:THR:CG2	1:N:136:ILE:HG21	2.08	0.84
1:N:192:CYS:HB3	1:O:79:THR:CB	2.06	0.84
1:O:322:ALA:O	1:P:47:ASP:CG	2.00	0.84
1:P:45:LEU:HB2	1:P:67:LEU:HD11	1.58	0.84
1:A:186:PHE:CE2	1:A:269:ILE:HD11	2.12	0.83
1:B:78:GLU:HG2	1:C:170:LYS:N	1.93	0.83
1:B:284:PHE:CE2	1:B:296:ILE:HG21	2.13	0.83
1:C:19:THR:HG23	1:C:40:THR:HG22	1.58	0.83
1:C:245:GLU:HB3	1:G:75:ASP:HA	1.60	0.83
1:E:95:THR:CG2	1:E:136:ILE:HG21	2.08	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:222:ASN:ND2	1:G:237:ASN:HB2	1.92	0.83
1:G:271:LYS:HZ2	1:J:265:ALA:HA	1.40	0.83
1:H:198:GLU:HG3	1:K:203:GLU:HG3	0.84	0.83
1:I:73:VAL:HG23	1:M:240:MET:HE2	1.56	0.83
1:J:222:ASN:ND2	1:J:237:ASN:HB2	1.92	0.83
1:L:186:PHE:CE2	1:L:269:ILE:HD11	2.12	0.83
1:N:320:LYS:HE2	1:O:50:ILE:CD1	2.05	0.83
1:O:70:GLU:OE1	1:O:74:GLU:HB3	1.78	0.83
1:O:95:THR:CG2	1:O:136:ILE:HG21	2.08	0.83
1:P:186:PHE:CE2	1:P:269:ILE:HD11	2.12	0.83
1:C:78:GLU:HG2	1:D:170:LYS:N	1.93	0.83
1:C:229:GLU:OE2	1:H:309:ASN:O	1.69	0.83
1:D:36:VAL:HG11	1:D:96:GLN:NE2	1.91	0.83
1:G:48:GLY:CA	1:H:322:ALA:C	2.46	0.83
1:G:52:ILE:N	1:G:74:GLU:HG2	1.92	0.83
1:K:19:THR:HG23	1:K:40:THR:HG22	1.58	0.83
1:K:322:ALA:C	1:L:48:GLY:CA	2.46	0.83
1:L:45:LEU:HB2	1:L:67:LEU:HD11	1.58	0.83
1:N:170:LYS:N	1:O:78:GLU:HG2	1.93	0.83
1:A:22:ILE:HG22	1:A:35:ARG:HB3	1.60	0.83
1:A:70:GLU:OE1	1:A:74:GLU:HB3	1.78	0.83
1:C:22:ILE:HG22	1:C:35:ARG:HB3	1.60	0.83
1:E:43:TYR:CE1	1:E:70:GLU:HG2	2.12	0.83
1:G:32:ASP:HB3	1:G:34:LYS:CD	2.09	0.83
1:H:32:ASP:HB3	1:H:34:LYS:CD	2.09	0.83
1:I:11:THR:HG21	1:I:315:CYS:O	1.79	0.83
1:J:284:PHE:CE2	1:J:296:ILE:HG21	2.13	0.83
1:J:320:LYS:C	1:K:49:TYR:HD1	1.81	0.83
1:L:19:THR:HG23	1:L:40:THR:HG22	1.58	0.83
1:M:36:VAL:HG21	1:M:38:PHE:CE2	2.12	0.83
1:M:70:GLU:OE1	1:M:74:GLU:HB3	1.78	0.83
1:M:222:ASN:ND2	1:M:237:ASN:HB2	1.92	0.83
1:N:275:LYS:O	1:N:278:GLN:HG2	1.76	0.83
1:A:11:THR:HG21	1:A:315:CYS:O	1.79	0.83
1:A:95:THR:CG2	1:A:136:ILE:HG21	2.08	0.83
1:A:284:PHE:CE2	1:A:296:ILE:HG21	2.13	0.83
1:C:95:THR:CG2	1:C:136:ILE:HG21	2.08	0.83
1:D:308:ASN:ND2	1:H:241:LYS:C	2.32	0.83
1:E:48:GLY:CA	1:F:322:ALA:C	2.46	0.83
1:F:32:ASP:HB3	1:F:34:LYS:CD	2.09	0.83
1:H:52:ILE:N	1:H:74:GLU:HG2	1.92	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:186:PHE:CE2	1:H:269:ILE:HD11	2.12	0.83
1:I:73:VAL:CG2	1:M:240:MET:HE3	1.89	0.83
1:I:320:LYS:C	1:J:49:TYR:HD1	1.82	0.83
1:K:320:LYS:C	1:L:49:TYR:HD1	1.81	0.83
1:M:45:LEU:HB2	1:M:67:LEU:HD11	1.58	0.83
1:M:95:THR:CG2	1:M:136:ILE:HG21	2.08	0.83
1:M:320:LYS:HE2	1:N:50:ILE:CD1	2.05	0.83
1:N:22:ILE:HG22	1:N:35:ARG:HB3	1.60	0.83
1:O:52:ILE:N	1:O:74:GLU:HG2	1.91	0.83
1:O:170:LYS:N	1:P:78:GLU:HG2	1.92	0.83
1:A:248:THR:HA	1:E:52:ILE:HG23	0.93	0.83
1:A:308:ASN:CG	1:E:231:ALA:CB	2.42	0.83
1:B:11:THR:HG21	1:B:315:CYS:O	1.79	0.83
1:B:70:GLU:OE1	1:B:74:GLU:HB3	1.78	0.83
1:B:79:THR:CB	1:C:169:PHE:O	2.25	0.83
1:G:70:GLU:OE1	1:G:74:GLU:HB3	1.78	0.83
1:G:202:GLU:OE2	1:J:271:LYS:C	2.16	0.83
1:O:275:LYS:O	1:O:278:GLN:HG2	1.76	0.83
1:A:241:LYS:CA	1:F:166:GLN:C	2.44	0.83
1:A:244:GLY:N	1:F:320:LYS:HZ3	1.67	0.83
1:D:246:ILE:HG12	1:H:50:ILE:N	1.88	0.83
1:E:32:ASP:HB3	1:E:34:LYS:CD	2.09	0.83
1:F:284:PHE:CE2	1:F:296:ILE:HG21	2.12	0.83
1:G:43:TYR:CE1	1:G:70:GLU:HG2	2.12	0.83
1:I:322:ALA:C	1:J:48:GLY:CA	2.46	0.83
1:J:32:ASP:HB3	1:J:34:LYS:CD	2.08	0.83
1:K:32:ASP:HB3	1:K:34:LYS:CD	2.09	0.83
1:L:32:ASP:HB3	1:L:34:LYS:CD	2.09	0.83
1:M:11:THR:HG21	1:M:315:CYS:O	1.79	0.83
1:B:19:THR:HG23	1:B:40:THR:HG22	1.58	0.83
1:C:240:MET:CE	1:G:73:VAL:CB	2.57	0.83
1:D:95:THR:CG2	1:D:136:ILE:HG21	2.08	0.83
1:N:10:MET:HB3	1:N:108:LEU:HD23	1.61	0.83
1:N:45:LEU:HB2	1:N:67:LEU:HD11	1.58	0.83
1:O:10:MET:HB3	1:O:108:LEU:HD23	1.61	0.83
1:P:32:ASP:HB3	1:P:34:LYS:CD	2.09	0.83
1:A:10:MET:HB3	1:A:108:LEU:HD23	1.61	0.83
1:A:241:LYS:O	1:F:165:GLU:HG2	1.79	0.83
1:D:10:MET:HB3	1:D:108:LEU:HD23	1.61	0.83
1:E:70:GLU:OE1	1:E:74:GLU:HB3	1.78	0.83
1:G:272:ARG:O	1:J:203:GLU:HB3	1.78	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:271:LYS:O	1:K:204:HIS:CG	2.31	0.83
1:I:33:ILE:HD12	1:I:312:TRP:HE1	1.41	0.83
1:I:73:VAL:CB	1:M:240:MET:HE2	2.09	0.83
1:I:325:LYS:HG2	1:J:48:GLY:HA3	0.83	0.83
1:K:70:GLU:OE1	1:K:74:GLU:HB3	1.78	0.83
1:L:284:PHE:CE2	1:L:296:ILE:HG21	2.13	0.83
1:M:10:MET:HB3	1:M:108:LEU:HD23	1.61	0.83
1:M:169:PHE:O	1:N:79:THR:CB	2.25	0.83
1:N:277:ASP:HB2	1:O:218:THR:OG1	1.78	0.83
1:O:36:VAL:HG21	1:O:38:PHE:CE2	2.12	0.83
1:B:43:TYR:CD2	1:B:67:LEU:HB3	2.14	0.83
1:E:48:GLY:HA3	1:F:325:LYS:HG2	0.83	0.83
1:E:224:ASN:HD21	1:F:275:LYS:NZ	1.72	0.83
1:F:95:THR:CG2	1:F:136:ILE:HG21	2.08	0.83
1:H:11:THR:HG21	1:H:315:CYS:O	1.79	0.83
1:H:95:THR:CG2	1:H:136:ILE:HG21	2.08	0.83
1:I:32:ASP:HB3	1:I:34:LYS:CD	2.09	0.83
1:J:11:THR:HG21	1:J:315:CYS:O	1.79	0.83
1:K:320:LYS:CB	1:L:49:TYR:CD1	2.59	0.83
1:N:32:ASP:HB3	1:N:34:LYS:CD	2.09	0.83
1:O:32:ASP:HB3	1:O:34:LYS:CD	2.09	0.83
1:P:22:ILE:HG22	1:P:35:ARG:HB3	1.60	0.83
1:P:153:THR:HG21	1:P:325:LYS:CG	2.09	0.83
1:A:43:TYR:CD2	1:A:67:LEU:HB3	2.14	0.83
1:A:153:THR:HG21	1:A:325:LYS:CG	2.09	0.83
1:B:10:MET:HB3	1:B:108:LEU:HD23	1.61	0.83
1:B:79:THR:O	1:C:170:LYS:NZ	1.94	0.83
1:B:95:THR:CG2	1:B:136:ILE:HG21	2.08	0.83
1:C:43:TYR:CD2	1:C:67:LEU:HB3	2.14	0.83
1:C:70:GLU:OE1	1:C:74:GLU:HB3	1.78	0.83
1:D:32:ASP:HB3	1:D:34:LYS:CD	2.09	0.83
1:H:271:LYS:CG	1:K:202:GLU:HG3	2.08	0.83
1:J:322:ALA:C	1:K:48:GLY:CA	2.46	0.83
1:K:166:GLN:HA	1:P:242:LYS:C	1.98	0.83
1:M:32:ASP:HB3	1:M:34:LYS:CD	2.09	0.83
1:O:45:LEU:HB2	1:O:67:LEU:HD11	1.58	0.83
1:P:10:MET:HB3	1:P:108:LEU:HD23	1.61	0.83
1:D:70:GLU:OE1	1:D:74:GLU:HB3	1.78	0.82
1:F:47:ASP:OD2	1:G:7:GLU:OE1	1.97	0.82
1:F:48:GLY:CA	1:G:322:ALA:C	2.46	0.82
1:H:70:GLU:OE1	1:H:74:GLU:HB3	1.78	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:201:ILE:HG22	1:K:199:ARG:O	1.77	0.82
1:I:70:GLU:OE1	1:I:74:GLU:HB3	1.78	0.82
1:N:11:THR:HG21	1:N:315:CYS:O	1.79	0.82
1:N:43:TYR:CD2	1:N:67:LEU:HB3	2.14	0.82
1:P:70:GLU:OE1	1:P:74:GLU:HB3	1.78	0.82
1:B:32:ASP:HB3	1:B:34:LYS:CD	2.09	0.82
1:C:10:MET:HB3	1:C:108:LEU:HD23	1.61	0.82
1:C:218:THR:OG1	1:D:277:ASP:HB2	1.78	0.82
1:D:43:TYR:CD2	1:D:67:LEU:HB3	2.14	0.82
1:D:219:ASP:C	1:D:220:LEU:HD12	2.00	0.82
1:G:11:THR:HG21	1:G:315:CYS:O	1.79	0.82
1:I:275:LYS:NZ	1:J:224:ASN:HD21	1.72	0.82
1:J:325:LYS:HG2	1:K:48:GLY:HA3	0.83	0.82
1:N:219:ASP:C	1:N:220:LEU:HD12	2.00	0.82
1:O:43:TYR:CD2	1:O:67:LEU:HB3	2.14	0.82
1:O:153:THR:HG21	1:O:325:LYS:CG	2.09	0.82
1:C:32:ASP:HB3	1:C:34:LYS:CD	2.09	0.82
1:G:47:ASP:OD2	1:H:7:GLU:OE1	1.97	0.82
1:G:203:GLU:HB3	1:J:198:GLU:HG2	1.61	0.82
1:G:203:GLU:HB3	1:J:272:ARG:O	1.78	0.82
1:G:268:LEU:HD11	1:J:268:LEU:CA	2.07	0.82
1:H:219:ASP:C	1:H:220:LEU:HD12	2.00	0.82
1:I:73:VAL:HG21	1:M:240:MET:HE1	1.60	0.82
1:L:70:GLU:OE1	1:L:74:GLU:HB3	1.78	0.82
1:M:43:TYR:CD2	1:M:67:LEU:HB3	2.14	0.82
1:O:219:ASP:C	1:O:220:LEU:HD12	2.00	0.82
1:P:43:TYR:CD2	1:P:67:LEU:HB3	2.14	0.82
1:P:219:ASP:C	1:P:220:LEU:HD12	2.00	0.82
1:A:164:LEU:CD1	1:A:313:THR:HA	2.10	0.82
1:C:11:THR:HG21	1:C:315:CYS:O	1.79	0.82
1:C:219:ASP:C	1:C:220:LEU:HD12	2.00	0.82
1:F:48:GLY:HA3	1:G:325:LYS:HG2	0.83	0.82
1:F:234:ALA:HB1	1:F:235:LEU:HA	1.61	0.82
1:G:198:GLU:HG2	1:J:203:GLU:HB3	1.60	0.82
1:K:219:ASP:C	1:K:220:LEU:HD12	2.00	0.82
1:M:219:ASP:C	1:M:220:LEU:HD12	2.00	0.82
1:B:153:THR:HG21	1:B:325:LYS:CG	2.09	0.82
1:C:246:ILE:HD11	1:H:320:LYS:O	1.80	0.82
1:E:47:ASP:OD2	1:F:7:GLU:OE1	1.97	0.82
1:G:234:ALA:HB1	1:G:235:LEU:HA	1.61	0.82
1:H:44:ASN:HB2	1:H:64:LYS:HZ1	1.43	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:32:ASP:HB3	1:A:34:LYS:CD	2.09	0.82
1:C:44:ASN:HB2	1:C:64:LYS:HZ1	1.42	0.82
1:D:11:THR:HG21	1:D:315:CYS:O	1.79	0.82
1:D:308:ASN:OD1	1:H:231:ALA:CB	2.26	0.82
1:E:11:THR:HG21	1:E:315:CYS:O	1.78	0.82
1:G:219:ASP:CG	1:H:275:LYS:HZ3	1.80	0.82
1:H:203:GLU:HA	1:K:197:SER:O	1.78	0.82
1:M:192:CYS:HB3	1:N:79:THR:HG21	1.61	0.82
1:A:47:ASP:CA	1:B:323:VAL:HG22	2.10	0.82
1:A:79:THR:CB	1:B:169:PHE:O	2.25	0.82
1:B:164:LEU:CD1	1:B:313:THR:HA	2.10	0.82
1:G:219:ASP:C	1:G:220:LEU:HD12	2.00	0.82
1:J:219:ASP:C	1:J:220:LEU:HD12	2.00	0.82
1:K:11:THR:HG21	1:K:315:CYS:O	1.79	0.82
1:L:10:MET:HB3	1:L:108:LEU:HD23	1.61	0.82
1:L:219:ASP:C	1:L:220:LEU:HD12	2.00	0.82
1:N:153:THR:HG21	1:N:325:LYS:CG	2.09	0.82
1:O:36:VAL:H	1:O:312:TRP:HH2	1.28	0.82
1:O:139:LYS:HB2	1:O:142:ASP:HB2	1.61	0.82
1:P:139:LYS:HB2	1:P:142:ASP:HB2	1.61	0.82
1:A:246:ILE:CD1	1:F:320:LYS:CA	2.48	0.82
1:B:219:ASP:C	1:B:220:LEU:HD12	2.00	0.82
1:C:47:ASP:CA	1:D:323:VAL:HG22	2.10	0.82
1:E:22:ILE:HG22	1:E:35:ARG:HB3	1.60	0.82
1:E:234:ALA:HB1	1:E:235:LEU:HA	1.61	0.82
1:F:11:THR:HG21	1:F:315:CYS:O	1.79	0.82
1:F:271:LYS:HZ2	1:I:265:ALA:CA	1.89	0.82
1:G:153:THR:HG21	1:G:325:LYS:CG	2.09	0.82
1:J:234:ALA:HB1	1:J:235:LEU:HA	1.61	0.82
1:M:68:ILE:HD13	1:M:92:THR:CB	2.06	0.82
1:P:36:VAL:H	1:P:312:TRP:HH2	1.28	0.82
1:C:234:ALA:HB1	1:C:235:LEU:HA	1.61	0.82
1:D:164:LEU:CD1	1:D:313:THR:HA	2.10	0.82
1:D:234:ALA:HB1	1:D:235:LEU:HA	1.61	0.82
1:H:183:ASN:OD1	1:K:197:SER:OG	1.96	0.82
1:H:234:ALA:HB1	1:H:235:LEU:HA	1.61	0.82
1:J:44:ASN:HB2	1:J:64:LYS:HZ1	1.43	0.82
1:J:75:ASP:CA	1:N:245:GLU:CG	2.33	0.82
1:K:166:GLN:HB3	1:P:242:LYS:CA	1.98	0.82
1:K:308:ASN:HD22	1:P:231:ALA:C	1.83	0.82
1:L:22:ILE:HG22	1:L:35:ARG:HB3	1.60	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:164:LEU:CD1	1:L:313:THR:HA	2.10	0.82
1:M:36:VAL:H	1:M:312:TRP:HH2	1.28	0.82
1:N:139:LYS:HB2	1:N:142:ASP:HB2	1.62	0.82
1:O:11:THR:HG21	1:O:315:CYS:O	1.78	0.82
1:O:277:ASP:HB2	1:P:218:THR:OG1	1.78	0.82
1:O:324:ALA:HB1	1:P:46:GLU:CA	1.92	0.82
1:C:153:THR:HG21	1:C:325:LYS:CG	2.09	0.82
1:E:219:ASP:C	1:E:220:LEU:HD12	2.00	0.82
1:F:153:THR:HG21	1:F:325:LYS:CG	2.09	0.82
1:G:164:LEU:CD1	1:G:313:THR:HA	2.10	0.82
1:H:22:ILE:HG22	1:H:35:ARG:HB3	1.60	0.82
1:H:153:THR:HG21	1:H:325:LYS:CG	2.09	0.82
1:H:268:LEU:HA	1:K:268:LEU:HD11	1.60	0.82
1:J:43:TYR:CD2	1:J:67:LEU:HB3	2.14	0.82
1:J:320:LYS:CB	1:K:49:TYR:CD1	2.59	0.82
1:M:22:ILE:HG22	1:M:35:ARG:HB3	1.60	0.82
1:N:192:CYS:HB3	1:O:79:THR:HG21	1.61	0.82
1:B:234:ALA:HB1	1:B:235:LEU:HA	1.61	0.81
1:C:164:LEU:CD1	1:C:313:THR:HA	2.10	0.81
1:F:44:ASN:HB2	1:F:64:LYS:HZ1	1.45	0.81
1:F:203:GLU:HG3	1:I:198:GLU:HG3	0.82	0.81
1:I:22:ILE:HG22	1:I:35:ARG:HB3	1.60	0.81
1:I:153:THR:HG21	1:I:325:LYS:CG	2.09	0.81
1:I:234:ALA:HB1	1:I:235:LEU:HA	1.61	0.81
1:K:10:MET:HB3	1:K:108:LEU:HD23	1.61	0.81
1:K:22:ILE:HG22	1:K:35:ARG:HB3	1.60	0.81
1:K:153:THR:HG21	1:K:325:LYS:CG	2.09	0.81
1:L:43:TYR:CD2	1:L:67:LEU:HB3	2.14	0.81
1:M:139:LYS:HB2	1:M:142:ASP:HB2	1.62	0.81
1:A:36:VAL:H	1:A:312:TRP:HH2	1.28	0.81
1:A:219:ASP:C	1:A:220:LEU:HD12	2.00	0.81
1:A:234:ALA:HB1	1:A:235:LEU:HA	1.61	0.81
1:G:43:TYR:CD2	1:G:67:LEU:HB3	2.14	0.81
1:G:48:GLY:HA3	1:H:325:LYS:HG2	0.83	0.81
1:G:272:ARG:HG3	1:J:202:GLU:C	2.00	0.81
1:H:12:LEU:HB2	1:H:110:LEU:HD12	1.62	0.81
1:K:7:GLU:OE1	1:L:47:ASP:OD2	1.97	0.81
1:K:12:LEU:HB2	1:K:110:LEU:HD12	1.62	0.81
1:K:234:ALA:HB1	1:K:235:LEU:HA	1.61	0.81
1:N:36:VAL:H	1:N:312:TRP:HH2	1.28	0.81
1:P:164:LEU:CD1	1:P:313:THR:HA	2.10	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:68:ILE:HD13	1:A:92:THR:CB	2.07	0.81
1:A:76:SER:O	1:B:169:PHE:CD2	2.34	0.81
1:F:43:TYR:CD2	1:F:67:LEU:HB3	2.14	0.81
1:G:71:GLN:HE21	1:H:168:ASN:HB3	0.67	0.81
1:I:7:GLU:OE1	1:J:47:ASP:OD2	1.97	0.81
1:I:12:LEU:HD21	1:I:21:LEU:HD12	1.63	0.81
1:J:7:GLU:OE1	1:K:47:ASP:OD2	1.97	0.81
1:J:10:MET:HB3	1:J:108:LEU:HD23	1.61	0.81
1:J:22:ILE:HG22	1:J:35:ARG:HB3	1.60	0.81
1:J:153:THR:HG21	1:J:325:LYS:CG	2.09	0.81
1:J:164:LEU:CD1	1:J:313:THR:HA	2.10	0.81
1:K:164:LEU:CD1	1:K:313:THR:HA	2.10	0.81
1:K:325:LYS:HG2	1:L:48:GLY:HA3	0.83	0.81
1:L:12:LEU:HB2	1:L:110:LEU:HD12	1.62	0.81
1:L:52:ILE:CG2	1:P:248:THR:HA	2.06	0.81
1:M:153:THR:HG21	1:M:325:LYS:CG	2.09	0.81
1:M:234:ALA:HB1	1:M:235:LEU:HA	1.61	0.81
1:N:68:ILE:HD13	1:N:92:THR:CB	2.07	0.81
1:N:169:PHE:CD2	1:O:76:SER:O	2.34	0.81
1:N:323:VAL:HG22	1:O:47:ASP:CA	2.10	0.81
1:O:169:PHE:CD2	1:P:76:SER:O	2.34	0.81
1:E:12:LEU:HD21	1:E:21:LEU:HD12	1.63	0.81
1:F:12:LEU:HD21	1:F:21:LEU:HD12	1.63	0.81
1:F:22:ILE:HG22	1:F:35:ARG:HB3	1.60	0.81
1:F:164:LEU:CD1	1:F:313:THR:HA	2.10	0.81
1:H:164:LEU:CD1	1:H:313:THR:HA	2.10	0.81
1:I:164:LEU:CD1	1:I:313:THR:HA	2.10	0.81
1:I:219:ASP:C	1:I:220:LEU:HD12	2.00	0.81
1:O:164:LEU:CD1	1:O:313:THR:HA	2.10	0.81
1:A:139:LYS:HB2	1:A:142:ASP:HB2	1.62	0.81
1:A:241:LYS:CB	1:F:166:GLN:CD	2.28	0.81
1:C:79:THR:HG21	1:D:192:CYS:HB3	1.61	0.81
1:E:153:THR:HG21	1:E:325:LYS:CG	2.09	0.81
1:E:164:LEU:CD1	1:E:313:THR:HA	2.10	0.81
1:F:219:ASP:C	1:F:220:LEU:HD12	2.00	0.81
1:G:12:LEU:HB2	1:G:110:LEU:HD12	1.62	0.81
1:G:22:ILE:HG22	1:G:35:ARG:HB3	1.60	0.81
1:H:43:TYR:CD2	1:H:67:LEU:HB3	2.14	0.81
1:I:43:TYR:CD2	1:I:67:LEU:HB3	2.14	0.81
1:J:12:LEU:HB2	1:J:110:LEU:HD12	1.63	0.81
1:J:53:GLU:HG3	1:N:252:THR:HG21	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:44:ASN:HB2	1:K:64:LYS:HZ1	1.44	0.81
1:L:11:THR:HG21	1:L:315:CYS:O	1.79	0.81
1:L:153:THR:HG21	1:L:325:LYS:CG	2.09	0.81
1:L:234:ALA:HB1	1:L:235:LEU:HA	1.61	0.81
1:N:164:LEU:CD1	1:N:313:THR:HA	2.10	0.81
1:N:234:ALA:HB1	1:N:235:LEU:HA	1.61	0.81
1:A:50:ILE:HG12	1:B:320:LYS:CD	2.06	0.81
1:B:22:ILE:HG22	1:B:35:ARG:HB3	1.60	0.81
1:B:36:VAL:H	1:B:312:TRP:HH2	1.28	0.81
1:G:202:GLU:C	1:J:272:ARG:HG3	2.01	0.81
1:G:268:LEU:CA	1:J:268:LEU:HD11	2.07	0.81
1:I:10:MET:HB3	1:I:108:LEU:HD23	1.61	0.81
1:K:68:ILE:HD13	1:K:92:THR:CB	2.07	0.81
1:K:305:ILE:HG22	1:P:241:LYS:HZ1	1.42	0.81
1:M:164:LEU:CD1	1:M:313:THR:HA	2.10	0.81
1:O:234:ALA:HB1	1:O:235:LEU:HA	1.61	0.81
1:P:11:THR:HG21	1:P:315:CYS:O	1.79	0.81
1:C:76:SER:O	1:D:169:PHE:CD2	2.34	0.81
1:C:246:ILE:HG12	1:G:50:ILE:N	1.43	0.81
1:D:153:THR:HG21	1:D:325:LYS:CG	2.09	0.81
1:E:43:TYR:CD2	1:E:67:LEU:HB3	2.14	0.81
1:E:44:ASN:HB2	1:E:64:LYS:HZ1	1.46	0.81
1:G:49:TYR:HD1	1:H:320:LYS:C	1.82	0.81
1:H:10:MET:HB3	1:H:108:LEU:HD23	1.61	0.81
1:H:202:GLU:C	1:K:272:ARG:HG3	1.99	0.81
1:J:12:LEU:HD21	1:J:21:LEU:HD12	1.63	0.81
1:O:68:ILE:HD13	1:O:92:THR:CB	2.06	0.81
1:O:192:CYS:HB3	1:P:79:THR:HG21	1.61	0.81
1:C:246:ILE:HD12	1:G:50:ILE:HG23	1.62	0.81
1:C:246:ILE:HG12	1:G:50:ILE:C	1.66	0.81
1:E:12:LEU:HB2	1:E:110:LEU:HD12	1.63	0.81
1:E:179:PHE:CE1	1:E:261:PHE:HE2	1.99	0.81
1:F:12:LEU:HB2	1:F:110:LEU:HD12	1.62	0.81
1:G:197:SER:O	1:J:203:GLU:CA	2.29	0.81
1:I:12:LEU:HB2	1:I:110:LEU:HD12	1.62	0.81
1:J:68:ILE:HD13	1:J:92:THR:CB	2.07	0.81
1:J:75:ASP:HA	1:N:245:GLU:HB3	1.44	0.81
1:N:44:ASN:HB2	1:N:64:LYS:HZ1	1.43	0.81
1:A:243:GLY:O	1:F:163:PHE:CA	2.25	0.81
1:A:276:LEU:HD12	1:A:300:TYR:CZ	2.16	0.81
1:C:276:LEU:HD12	1:C:300:TYR:CZ	2.16	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:276:LEU:HD12	1:D:300:TYR:CZ	2.16	0.81
1:E:36:VAL:H	1:E:312:TRP:HH2	1.28	0.81
1:F:36:VAL:H	1:F:312:TRP:HH2	1.28	0.81
1:F:179:PHE:CE1	1:F:261:PHE:HE2	1.99	0.81
1:F:276:LEU:HD12	1:F:300:TYR:CZ	2.16	0.81
1:G:10:MET:HB3	1:G:108:LEU:HD23	1.61	0.81
1:H:272:ARG:NH1	1:K:201:ILE:CG2	2.33	0.81
1:H:276:LEU:HD12	1:H:300:TYR:CZ	2.16	0.81
1:I:139:LYS:HB2	1:I:142:ASP:HB2	1.62	0.81
1:I:179:PHE:CE1	1:I:261:PHE:HE2	1.99	0.81
1:M:169:PHE:CD2	1:N:76:SER:O	2.34	0.81
1:O:22:ILE:HG22	1:O:35:ARG:HB3	1.60	0.81
1:P:276:LEU:HD12	1:P:300:TYR:CZ	2.16	0.81
1:B:79:THR:HG21	1:C:192:CYS:HB3	1.61	0.81
1:B:139:LYS:HB2	1:B:142:ASP:HB2	1.61	0.81
1:E:10:MET:HB3	1:E:108:LEU:HD23	1.61	0.81
1:F:10:MET:HB3	1:F:108:LEU:HD23	1.61	0.81
1:F:49:TYR:HD1	1:G:320:LYS:C	1.82	0.81
1:F:71:GLN:HE21	1:G:168:ASN:HB3	0.67	0.81
1:H:274:PHE:CE1	1:K:203:GLU:OE1	2.34	0.81
1:I:68:ILE:HD13	1:I:92:THR:CB	2.06	0.81
1:N:276:LEU:HD12	1:N:300:TYR:CZ	2.16	0.81
1:P:224:ASN:CG	1:P:233:SER:HB3	2.01	0.81
1:P:234:ALA:HB1	1:P:235:LEU:HA	1.61	0.81
1:A:44:ASN:HB2	1:A:64:LYS:HZ1	1.44	0.80
1:A:79:THR:O	1:B:170:LYS:NZ	1.94	0.80
1:B:276:LEU:HD12	1:B:300:TYR:CZ	2.17	0.80
1:D:68:ILE:HD13	1:D:92:THR:CB	2.07	0.80
1:D:179:PHE:CE1	1:D:261:PHE:HE2	1.99	0.80
1:G:36:VAL:H	1:G:312:TRP:HH2	1.28	0.80
1:G:203:GLU:CA	1:J:197:SER:O	2.29	0.80
1:K:43:TYR:CD2	1:K:67:LEU:HB3	2.14	0.80
1:L:231:ALA:HB2	1:P:308:ASN:CG	1.98	0.80
1:N:12:LEU:HD21	1:N:21:LEU:HD12	1.63	0.80
1:C:36:VAL:H	1:C:312:TRP:HH2	1.27	0.80
1:F:59:ILE:CD1	1:F:95:THR:HG21	2.12	0.80
1:H:201:ILE:CG1	1:K:272:ARG:NH1	2.34	0.80
1:I:276:LEU:HD12	1:I:300:TYR:CZ	2.16	0.80
1:J:139:LYS:HB2	1:J:142:ASP:HB2	1.62	0.80
1:J:179:PHE:CE1	1:J:261:PHE:HE2	1.99	0.80
1:K:139:LYS:HB2	1:K:142:ASP:HB2	1.61	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:276:LEU:HD12	1:K:300:TYR:CZ	2.16	0.80
1:L:52:ILE:HG23	1:P:248:THR:CA	2.06	0.80
1:A:47:ASP:OD2	1:B:326:TYR:HB2	1.80	0.80
1:A:179:PHE:CE1	1:A:261:PHE:HE2	1.99	0.80
1:B:12:LEU:HD21	1:B:21:LEU:HD12	1.63	0.80
1:B:47:ASP:CA	1:C:323:VAL:HG22	2.10	0.80
1:D:22:ILE:HG22	1:D:35:ARG:HB3	1.60	0.80
1:E:139:LYS:HB2	1:E:142:ASP:HB2	1.62	0.80
1:F:272:ARG:HA	1:I:202:GLU:OE2	1.81	0.80
1:H:139:LYS:HB2	1:H:142:ASP:HB2	1.62	0.80
1:H:202:GLU:HG2	1:K:272:ARG:HB2	1.62	0.80
1:I:73:VAL:HG23	1:M:240:MET:CE	2.11	0.80
1:L:177:ILE:HD11	1:L:284:PHE:CD2	2.17	0.80
1:L:224:ASN:CG	1:L:233:SER:HB3	2.01	0.80
1:M:177:ILE:HD11	1:M:284:PHE:CD2	2.17	0.80
1:O:12:LEU:HD21	1:O:21:LEU:HD12	1.63	0.80
1:P:164:LEU:HD11	1:P:316:GLU:OE1	1.82	0.80
1:A:12:LEU:HD21	1:A:21:LEU:HD12	1.63	0.80
1:B:47:ASP:OD2	1:C:326:TYR:HB2	1.80	0.80
1:B:68:ILE:HD13	1:B:92:THR:CB	2.06	0.80
1:B:177:ILE:HD11	1:B:284:PHE:CD2	2.17	0.80
1:C:68:ILE:HD13	1:C:92:THR:CB	2.07	0.80
1:C:177:ILE:HD11	1:C:284:PHE:CD2	2.17	0.80
1:D:36:VAL:H	1:D:312:TRP:HH2	1.28	0.80
1:J:36:VAL:H	1:J:312:TRP:HH2	1.28	0.80
1:M:43:TYR:CE2	1:M:67:LEU:HD13	2.17	0.80
1:O:164:LEU:HD11	1:O:316:GLU:OE1	1.82	0.80
1:P:68:ILE:HD13	1:P:92:THR:CB	2.07	0.80
1:A:79:THR:HG21	1:B:192:CYS:HB3	1.61	0.80
1:B:44:ASN:HB2	1:B:64:LYS:HZ1	1.46	0.80
1:C:12:LEU:HD21	1:C:21:LEU:HD12	1.63	0.80
1:C:43:TYR:CE2	1:C:67:LEU:HD13	2.17	0.80
1:D:177:ILE:HD11	1:D:284:PHE:CD2	2.17	0.80
1:D:284:PHE:CE2	1:D:296:ILE:HG12	2.17	0.80
1:G:12:LEU:HD21	1:G:21:LEU:HD12	1.63	0.80
1:J:73:VAL:HB	1:N:240:MET:HE1	1.62	0.80
1:J:177:ILE:HD11	1:J:284:PHE:CD2	2.17	0.80
1:K:36:VAL:H	1:K:312:TRP:HH2	1.28	0.80
1:L:179:PHE:CE1	1:L:261:PHE:HE2	1.99	0.80
1:M:12:LEU:HD21	1:M:21:LEU:HD12	1.63	0.80
1:M:59:ILE:CD1	1:M:95:THR:HG21	2.12	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:164:LEU:HD11	1:M:316:GLU:OE1	1.82	0.80
1:M:224:ASN:CG	1:M:233:SER:HB3	2.01	0.80
1:O:34:LYS:N	1:O:35:ARG:HB2	1.97	0.80
1:P:43:TYR:CE2	1:P:67:LEU:HD13	2.17	0.80
1:A:177:ILE:HD11	1:A:284:PHE:CD2	2.17	0.80
1:C:284:PHE:CE2	1:C:296:ILE:HG12	2.17	0.80
1:E:276:LEU:HD12	1:E:300:TYR:CZ	2.16	0.80
1:F:268:LEU:HD11	1:I:268:LEU:CA	2.12	0.80
1:G:179:PHE:CE1	1:G:261:PHE:HE2	1.99	0.80
1:I:168:ASN:HB3	1:J:71:GLN:HE21	0.67	0.80
1:J:59:ILE:CD1	1:J:95:THR:HG21	2.12	0.80
1:J:276:LEU:HD12	1:J:300:TYR:CZ	2.16	0.80
1:K:224:ASN:CG	1:K:233:SER:HB3	2.01	0.80
1:K:307:THR:HA	1:P:231:ALA:HB2	1.63	0.80
1:L:36:VAL:H	1:L:312:TRP:HH2	1.28	0.80
1:L:139:LYS:HB2	1:L:142:ASP:HB2	1.62	0.80
1:N:59:ILE:CD1	1:N:95:THR:HG21	2.12	0.80
1:N:164:LEU:HD11	1:N:316:GLU:OE1	1.82	0.80
1:P:179:PHE:CE1	1:P:261:PHE:HE2	1.99	0.80
1:C:46:GLU:CA	1:D:324:ALA:HB1	1.92	0.80
1:C:47:ASP:OD2	1:D:326:TYR:HB2	1.80	0.80
1:C:241:LYS:O	1:H:166:GLN:N	2.03	0.80
1:H:272:ARG:HG3	1:K:202:GLU:C	2.00	0.80
1:J:43:TYR:CE2	1:J:67:LEU:HD13	2.17	0.80
1:K:34:LYS:N	1:K:35:ARG:HB2	1.97	0.80
1:K:43:TYR:CE2	1:K:67:LEU:HD13	2.17	0.80
1:K:59:ILE:CD1	1:K:95:THR:HG21	2.12	0.80
1:K:284:PHE:CE2	1:K:296:ILE:HG12	2.17	0.80
1:L:12:LEU:HD21	1:L:21:LEU:HD12	1.63	0.80
1:M:44:ASN:HB2	1:M:64:LYS:HZ1	1.44	0.80
1:N:34:LYS:N	1:N:35:ARG:HB2	1.97	0.80
1:N:43:TYR:CE2	1:N:67:LEU:HD13	2.17	0.80
1:O:59:ILE:CD1	1:O:95:THR:HG21	2.12	0.80
1:O:177:ILE:HD11	1:O:284:PHE:CD2	2.17	0.80
1:O:179:PHE:CE1	1:O:261:PHE:HE2	1.99	0.80
1:P:34:LYS:N	1:P:35:ARG:HB2	1.97	0.80
1:A:164:LEU:HD11	1:A:316:GLU:OE1	1.82	0.80
1:A:224:ASN:CG	1:A:233:SER:HB3	2.01	0.80
1:B:76:SER:O	1:C:169:PHE:CD2	2.33	0.80
1:B:76:SER:O	1:C:169:PHE:HD2	1.65	0.80
1:B:164:LEU:HD11	1:B:316:GLU:OE1	1.82	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:179:PHE:CE1	1:B:261:PHE:HE2	1.99	0.80
1:C:224:ASN:CG	1:C:233:SER:HB3	2.01	0.80
1:D:240:MET:CE	1:H:73:VAL:CG2	2.60	0.80
1:F:139:LYS:HB2	1:F:142:ASP:HB2	1.62	0.80
1:G:139:LYS:HB2	1:G:142:ASP:HB2	1.62	0.80
1:H:179:PHE:CE1	1:H:261:PHE:HE2	1.99	0.80
1:H:271:LYS:HE3	1:K:202:GLU:CG	2.11	0.80
1:L:43:TYR:CE2	1:L:67:LEU:HD13	2.17	0.80
1:M:34:LYS:N	1:M:35:ARG:HB2	1.97	0.80
1:A:43:TYR:CE2	1:A:67:LEU:HD13	2.17	0.80
1:A:245:GLU:HB3	1:E:74:GLU:C	2.02	0.80
1:A:251:SER:O	1:A:254:ILE:HG12	1.82	0.80
1:B:224:ASN:CG	1:B:233:SER:HB3	2.01	0.80
1:B:251:SER:O	1:B:254:ILE:HG12	1.82	0.80
1:C:139:LYS:HB2	1:C:142:ASP:HB2	1.62	0.80
1:D:12:LEU:HB2	1:D:110:LEU:HD12	1.63	0.80
1:D:224:ASN:CG	1:D:233:SER:HB3	2.01	0.80
1:E:164:LEU:HD11	1:E:316:GLU:OE1	1.82	0.80
1:F:164:LEU:HD11	1:F:316:GLU:OE1	1.82	0.80
1:G:59:ILE:CD1	1:G:95:THR:HG21	2.12	0.80
1:H:68:ILE:HD13	1:H:92:THR:CB	2.06	0.80
1:I:43:TYR:CE2	1:I:67:LEU:HD13	2.17	0.80
1:J:308:ASN:OD1	1:O:230:GLN:HA	1.80	0.80
1:K:12:LEU:HD21	1:K:21:LEU:HD12	1.63	0.80
1:P:12:LEU:HD21	1:P:21:LEU:HD12	1.63	0.80
1:P:59:ILE:CD1	1:P:95:THR:HG21	2.12	0.80
1:P:177:ILE:HD11	1:P:284:PHE:CD2	2.17	0.80
1:B:43:TYR:CE2	1:B:67:LEU:HD13	2.17	0.80
1:C:50:ILE:H	1:D:320:LYS:HD3	1.45	0.80
1:E:71:GLN:HE21	1:F:168:ASN:HB3	0.67	0.80
1:E:177:ILE:HD11	1:E:284:PHE:CD2	2.17	0.80
1:F:203:GLU:OE1	1:I:274:PHE:CE1	2.34	0.80
1:H:177:ILE:HD11	1:H:284:PHE:CD2	2.17	0.80
1:I:36:VAL:H	1:I:312:TRP:HH2	1.28	0.80
1:K:179:PHE:CE1	1:K:261:PHE:HE2	1.99	0.80
1:O:43:TYR:CE2	1:O:67:LEU:HD13	2.17	0.80
1:C:12:LEU:HB2	1:C:110:LEU:HD12	1.63	0.79
1:C:59:ILE:CD1	1:C:95:THR:HG21	2.12	0.79
1:C:251:SER:O	1:C:254:ILE:HG12	1.82	0.79
1:D:251:SER:O	1:D:254:ILE:HG12	1.82	0.79
1:E:49:TYR:HD1	1:F:320:LYS:C	1.81	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:224:ASN:CG	1:E:233:SER:HB3	2.01	0.79
1:F:177:ILE:HD11	1:F:284:PHE:CD2	2.17	0.79
1:F:274:PHE:HD1	1:I:204:HIS:CE1	2.00	0.79
1:G:47:ASP:O	1:H:323:VAL:CA	2.30	0.79
1:G:68:ILE:HD13	1:G:92:THR:CB	2.07	0.79
1:G:164:LEU:HD11	1:G:316:GLU:OE1	1.82	0.79
1:G:276:LEU:HD12	1:G:300:TYR:CZ	2.16	0.79
1:H:36:VAL:H	1:H:312:TRP:HH2	1.28	0.79
1:H:59:ILE:CD1	1:H:95:THR:HG21	2.12	0.79
1:J:224:ASN:CG	1:J:233:SER:HB3	2.01	0.79
1:N:12:LEU:HB2	1:N:110:LEU:HD12	1.62	0.79
1:N:177:ILE:HD11	1:N:284:PHE:CD2	2.17	0.79
1:A:76:SER:O	1:B:169:PHE:HD2	1.65	0.79
1:B:12:LEU:HB2	1:B:110:LEU:HD12	1.62	0.79
1:C:76:SER:O	1:D:169:PHE:HD2	1.65	0.79
1:D:139:LYS:HB2	1:D:142:ASP:HB2	1.62	0.79
1:E:320:LYS:O	1:E:323:VAL:HG22	1.82	0.79
1:F:224:ASN:CG	1:F:233:SER:HB3	2.01	0.79
1:G:224:ASN:CG	1:G:233:SER:HB3	2.01	0.79
1:H:34:LYS:N	1:H:35:ARG:HB2	1.97	0.79
1:I:284:PHE:CE2	1:I:296:ILE:HG12	2.17	0.79
1:K:177:ILE:HD11	1:K:284:PHE:CE2	2.18	0.79
1:L:177:ILE:HD11	1:L:284:PHE:CE2	2.17	0.79
1:N:179:PHE:CE1	1:N:261:PHE:HE2	1.99	0.79
1:O:12:LEU:HB2	1:O:110:LEU:HD12	1.62	0.79
1:P:12:LEU:HB2	1:P:110:LEU:HD12	1.62	0.79
1:A:34:LYS:N	1:A:35:ARG:HB2	1.97	0.79
1:B:284:PHE:CE2	1:B:296:ILE:HG12	2.17	0.79
1:C:164:LEU:HD11	1:C:316:GLU:OE1	1.82	0.79
1:F:68:ILE:HD13	1:F:92:THR:CB	2.07	0.79
1:G:177:ILE:HD11	1:G:284:PHE:CD2	2.17	0.79
1:H:164:LEU:HD11	1:H:316:GLU:OE1	1.82	0.79
1:I:177:ILE:HD11	1:I:284:PHE:CE2	2.17	0.79
1:J:177:ILE:HD11	1:J:284:PHE:CE2	2.18	0.79
1:J:251:SER:O	1:J:254:ILE:HG12	1.82	0.79
1:L:75:ASP:HA	1:P:245:GLU:HB2	1.63	0.79
1:L:251:SER:O	1:L:254:ILE:HG12	1.82	0.79
1:M:12:LEU:HB2	1:M:110:LEU:HD12	1.62	0.79
1:M:63:GLY:O	1:M:64:LYS:HB3	1.83	0.79
1:M:276:LEU:HD12	1:M:300:TYR:CZ	2.16	0.79
1:O:276:LEU:HD12	1:O:300:TYR:CZ	2.16	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:179:PHE:CE1	1:C:261:PHE:HE2	1.99	0.79
1:E:43:TYR:CE2	1:E:67:LEU:HD13	2.17	0.79
1:E:59:ILE:CD1	1:E:95:THR:HG21	2.12	0.79
1:E:68:ILE:HD13	1:E:92:THR:CB	2.06	0.79
1:F:219:ASP:HA	1:F:224:ASN:HB2	0.86	0.79
1:G:44:ASN:HB2	1:G:64:LYS:HZ1	1.47	0.79
1:G:219:ASP:HA	1:G:224:ASN:HB2	0.86	0.79
1:H:12:LEU:HD21	1:H:21:LEU:HD12	1.63	0.79
1:H:224:ASN:CG	1:H:233:SER:HB3	2.01	0.79
1:I:251:SER:O	1:I:254:ILE:HG12	1.82	0.79
1:K:251:SER:O	1:K:254:ILE:HG12	1.82	0.79
1:L:276:LEU:HD12	1:L:300:TYR:CZ	2.16	0.79
1:O:284:PHE:CE2	1:O:296:ILE:HG12	2.17	0.79
1:P:284:PHE:CE2	1:P:296:ILE:HG12	2.17	0.79
1:A:246:ILE:C	1:E:52:ILE:CG1	2.51	0.79
1:A:290:GLN:HB3	1:E:230:GLN:HE22	1.47	0.79
1:D:59:ILE:CD1	1:D:95:THR:HG21	2.11	0.79
1:D:320:LYS:O	1:D:323:VAL:HG22	1.82	0.79
1:E:34:LYS:N	1:E:35:ARG:HB2	1.97	0.79
1:E:284:PHE:CE2	1:E:296:ILE:HG12	2.17	0.79
1:F:43:TYR:CE2	1:F:67:LEU:HD13	2.17	0.79
1:F:284:PHE:CE2	1:F:296:ILE:HG12	2.17	0.79
1:G:43:TYR:CE2	1:G:67:LEU:HD13	2.17	0.79
1:G:49:TYR:CD1	1:H:320:LYS:O	2.26	0.79
1:G:284:PHE:CE2	1:G:296:ILE:HG12	2.17	0.79
1:H:284:PHE:CE2	1:H:296:ILE:HG12	2.17	0.79
1:J:168:ASN:HB3	1:K:71:GLN:HE21	0.67	0.79
1:A:12:LEU:HB2	1:A:110:LEU:HD12	1.62	0.79
1:C:63:GLY:O	1:C:64:LYS:HB3	1.83	0.79
1:C:177:ILE:HD11	1:C:284:PHE:CE2	2.17	0.79
1:D:12:LEU:HD21	1:D:21:LEU:HD12	1.63	0.79
1:I:224:ASN:CG	1:I:233:SER:HB3	2.01	0.79
1:L:284:PHE:CE2	1:L:296:ILE:HG12	2.17	0.79
1:M:179:PHE:CE1	1:M:261:PHE:HE2	1.99	0.79
1:A:59:ILE:CD1	1:A:95:THR:HG21	2.12	0.79
1:A:284:PHE:CE2	1:A:296:ILE:HG12	2.17	0.79
1:B:63:GLY:O	1:B:64:LYS:HB3	1.83	0.79
1:B:241:LYS:CA	1:G:166:GLN:O	2.29	0.79
1:C:320:LYS:O	1:C:323:VAL:HG22	1.82	0.79
1:D:34:LYS:N	1:D:35:ARG:HB2	1.97	0.79
1:D:164:LEU:HD11	1:D:316:GLU:OE1	1.82	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:43:TYR:CE2	1:H:67:LEU:HD13	2.17	0.79
1:J:284:PHE:CE2	1:J:296:ILE:HG12	2.17	0.79
1:N:224:ASN:CG	1:N:233:SER:HB3	2.01	0.79
1:O:320:LYS:HD3	1:P:50:ILE:H	1.45	0.79
1:A:177:ILE:HD11	1:A:284:PHE:CE2	2.17	0.79
1:A:241:LYS:CB	1:F:165:GLU:OE2	2.29	0.79
1:F:34:LYS:N	1:F:35:ARG:HB2	1.97	0.79
1:G:34:LYS:N	1:G:35:ARG:HB2	1.97	0.79
1:I:34:LYS:N	1:I:35:ARG:HB2	1.97	0.79
1:I:59:ILE:CD1	1:I:95:THR:HG21	2.12	0.79
1:L:34:LYS:N	1:L:35:ARG:HB2	1.97	0.79
1:M:284:PHE:CE2	1:M:296:ILE:HG12	2.17	0.79
1:N:284:PHE:CE2	1:N:296:ILE:HG12	2.17	0.79
1:B:50:ILE:H	1:C:320:LYS:HD3	1.45	0.79
1:I:26:LYS:CB	1:I:97:VAL:HG13	2.13	0.79
1:I:52:ILE:HD12	1:M:247:ASP:O	1.82	0.79
1:I:166:GLN:HA	1:N:242:LYS:O	1.82	0.79
1:J:34:LYS:N	1:J:35:ARG:HB2	1.97	0.79
1:L:63:GLY:O	1:L:64:LYS:HB3	1.83	0.79
1:L:320:LYS:O	1:L:323:VAL:HG22	1.82	0.79
1:N:169:PHE:HD2	1:O:76:SER:O	1.65	0.79
1:N:251:SER:O	1:N:254:ILE:HG12	1.82	0.79
1:O:177:ILE:HD11	1:O:284:PHE:CE2	2.18	0.79
1:O:251:SER:O	1:O:254:ILE:HG12	1.82	0.79
1:P:177:ILE:HD11	1:P:284:PHE:CE2	2.17	0.79
1:B:34:LYS:N	1:B:35:ARG:HB2	1.97	0.79
1:B:320:LYS:O	1:B:323:VAL:HG22	1.82	0.79
1:C:227:THR:CG2	1:D:299:THR:O	2.14	0.79
1:F:47:ASP:O	1:G:323:VAL:CA	2.30	0.79
1:F:265:ALA:HA	1:I:271:LYS:NZ	1.97	0.79
1:I:308:ASN:HB3	1:N:229:GLU:N	1.51	0.79
1:J:164:LEU:HD11	1:J:316:GLU:OE1	1.82	0.79
1:K:63:GLY:O	1:K:64:LYS:HB3	1.83	0.79
1:L:59:ILE:CD1	1:L:95:THR:HG21	2.12	0.79
1:M:26:LYS:CB	1:M:97:VAL:HG13	2.13	0.79
1:N:177:ILE:HD11	1:N:284:PHE:CE2	2.18	0.79
1:B:59:ILE:CD1	1:B:95:THR:HG21	2.12	0.78
1:B:230:GLN:HB2	1:G:307:THR:O	1.82	0.78
1:C:245:GLU:O	1:G:52:ILE:HG12	1.83	0.78
1:F:200:PHE:HB3	1:I:201:ILE:O	1.83	0.78
1:G:272:ARG:CG	1:J:203:GLU:N	2.19	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:323:VAL:CA	1:K:47:ASP:O	2.30	0.78
1:K:22:ILE:HB	1:K:27:LYS:CE	2.14	0.78
1:O:224:ASN:CG	1:O:233:SER:HB3	2.01	0.78
1:P:44:ASN:HB2	1:P:64:LYS:HZ1	1.44	0.78
1:P:251:SER:O	1:P:254:ILE:HG12	1.82	0.78
1:D:43:TYR:CE2	1:D:67:LEU:HD13	2.17	0.78
1:D:63:GLY:O	1:D:64:LYS:HB3	1.83	0.78
1:E:219:ASP:HA	1:E:224:ASN:HB2	0.86	0.78
1:F:272:ARG:HG3	1:I:202:GLU:CA	2.13	0.78
1:G:177:ILE:HD11	1:G:284:PHE:CE2	2.17	0.78
1:H:59:ILE:CG2	1:H:66:TYR:HB2	2.14	0.78
1:H:177:ILE:HD11	1:H:284:PHE:CE2	2.18	0.78
1:I:164:LEU:HD11	1:I:316:GLU:OE1	1.82	0.78
1:J:59:ILE:CG2	1:J:66:TYR:HB2	2.14	0.78
1:K:59:ILE:CG2	1:K:66:TYR:HB2	2.14	0.78
1:L:59:ILE:CG2	1:L:66:TYR:HB2	2.14	0.78
1:M:177:ILE:HD11	1:M:284:PHE:CE2	2.18	0.78
1:N:26:LYS:CB	1:N:97:VAL:HG13	2.13	0.78
1:N:63:GLY:O	1:N:64:LYS:HB3	1.83	0.78
1:P:320:LYS:O	1:P:323:VAL:HG22	1.82	0.78
1:F:198:GLU:HA	1:I:203:GLU:CB	2.12	0.78
1:F:202:GLU:CG	1:I:271:LYS:HE3	2.12	0.78
1:G:204:HIS:HD2	1:J:274:PHE:CE1	1.84	0.78
1:I:59:ILE:CG2	1:I:66:TYR:HB2	2.14	0.78
1:K:75:ASP:HA	1:O:245:GLU:HB2	1.64	0.78
1:N:22:ILE:HB	1:N:27:LYS:CE	2.13	0.78
1:P:63:GLY:O	1:P:64:LYS:HB3	1.83	0.78
1:A:320:LYS:O	1:A:323:VAL:HG22	1.82	0.78
1:C:34:LYS:N	1:C:35:ARG:HB2	1.97	0.78
1:C:231:ALA:N	1:H:308:ASN:HD21	1.79	0.78
1:E:177:ILE:HD11	1:E:284:PHE:CE2	2.17	0.78
1:F:59:ILE:CG2	1:F:66:TYR:HB2	2.14	0.78
1:G:59:ILE:CG2	1:G:66:TYR:HB2	2.14	0.78
1:H:27:LYS:HE2	1:H:35:ARG:HE	1.49	0.78
1:H:197:SER:O	1:K:203:GLU:CB	2.32	0.78
1:I:22:ILE:HB	1:I:27:LYS:CE	2.14	0.78
1:I:44:ASN:HB2	1:I:64:LYS:HZ1	1.47	0.78
1:O:320:LYS:O	1:O:323:VAL:HG22	1.82	0.78
1:A:61:LEU:HB3	1:A:66:TYR:CE1	2.19	0.78
1:B:27:LYS:HE2	1:B:35:ARG:HE	1.49	0.78
1:B:227:THR:CG2	1:C:299:THR:O	2.14	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:22:ILE:HB	1:E:27:LYS:CE	2.14	0.78
1:E:59:ILE:CG2	1:E:66:TYR:HB2	2.14	0.78
1:F:177:ILE:HD11	1:F:284:PHE:CE2	2.17	0.78
1:H:114:LEU:HG	1:H:156:ALA:HB1	1.66	0.78
1:I:177:ILE:HD11	1:I:284:PHE:CD2	2.17	0.78
1:K:323:VAL:CA	1:L:47:ASP:O	2.30	0.78
1:L:164:LEU:HD12	1:L:316:GLU:HB2	1.66	0.78
1:M:27:LYS:HE2	1:M:35:ARG:HE	1.49	0.78
1:F:49:TYR:CD1	1:G:320:LYS:O	2.26	0.78
1:G:22:ILE:HB	1:G:27:LYS:CE	2.14	0.78
1:G:48:GLY:HA2	1:H:322:ALA:C	2.04	0.78
1:G:114:LEU:HG	1:G:156:ALA:HB1	1.66	0.78
1:G:251:SER:O	1:G:254:ILE:HG12	1.82	0.78
1:I:54:GLY:HA3	1:I:56:SER:N	1.99	0.78
1:K:52:ILE:HG23	1:O:248:THR:CA	2.10	0.78
1:K:164:LEU:HD11	1:K:316:GLU:OE1	1.82	0.78
1:K:177:ILE:HD11	1:K:284:PHE:CD2	2.17	0.78
1:K:322:ALA:C	1:L:48:GLY:HA2	2.04	0.78
1:M:54:GLY:HA3	1:M:56:SER:N	1.99	0.78
1:M:326:TYR:HB2	1:N:47:ASP:OD2	1.80	0.78
1:N:320:LYS:O	1:N:323:VAL:HG22	1.82	0.78
1:N:326:TYR:HB2	1:O:47:ASP:OD2	1.80	0.78
1:A:63:GLY:O	1:A:64:LYS:HB3	1.83	0.78
1:B:177:ILE:HD11	1:B:284:PHE:CE2	2.17	0.78
1:C:22:ILE:HB	1:C:27:LYS:CE	2.14	0.78
1:D:177:ILE:HD11	1:D:284:PHE:CE2	2.17	0.78
1:E:48:GLY:HA2	1:F:322:ALA:C	2.04	0.78
1:F:54:GLY:HA3	1:F:56:SER:N	1.99	0.78
1:I:308:ASN:CG	1:N:230:GLN:C	2.39	0.78
1:I:322:ALA:C	1:J:48:GLY:HA2	2.04	0.78
1:J:322:ALA:C	1:K:48:GLY:HA2	2.04	0.78
1:K:54:GLY:HA3	1:K:56:SER:N	1.99	0.78
1:L:61:LEU:HB3	1:L:66:TYR:CE1	2.19	0.78
1:L:164:LEU:HD11	1:L:316:GLU:OE1	1.82	0.78
1:M:251:SER:O	1:M:254:ILE:HG12	1.82	0.78
1:M:301:PRO:HG3	1:N:228:ASN:H	1.49	0.78
1:M:320:LYS:O	1:M:323:VAL:HG22	1.82	0.78
1:O:61:LEU:HB3	1:O:66:TYR:CE1	2.19	0.78
1:P:22:ILE:HB	1:P:27:LYS:CE	2.14	0.78
1:A:27:LYS:HE2	1:A:35:ARG:HE	1.49	0.78
1:A:241:LYS:HB3	1:F:165:GLU:HG2	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:44:ASN:HB2	1:D:64:LYS:HZ1	1.48	0.78
1:D:54:GLY:HA3	1:D:56:SER:N	1.99	0.78
1:F:48:GLY:HA2	1:G:322:ALA:C	2.04	0.78
1:F:114:LEU:HG	1:F:156:ALA:HB1	1.66	0.78
1:G:27:LYS:HE2	1:G:35:ARG:HE	1.49	0.78
1:G:164:LEU:HD12	1:G:316:GLU:HB2	1.66	0.78
1:I:61:LEU:HB3	1:I:66:TYR:CE1	2.19	0.78
1:K:49:TYR:CZ	1:O:246:ILE:N	2.51	0.78
1:K:164:LEU:HD12	1:K:316:GLU:HB2	1.66	0.78
1:K:168:ASN:HB3	1:L:71:GLN:HE21	0.67	0.78
1:L:68:ILE:HD13	1:L:92:THR:CB	2.06	0.78
1:M:169:PHE:HD2	1:N:76:SER:O	1.65	0.78
1:M:320:LYS:HD3	1:N:50:ILE:H	1.45	0.78
1:A:26:LYS:CB	1:A:97:VAL:HG13	2.13	0.78
1:A:242:LYS:HA	1:F:164:LEU:O	1.84	0.78
1:B:22:ILE:HB	1:B:27:LYS:CE	2.14	0.78
1:B:54:GLY:HA3	1:B:56:SER:N	1.99	0.78
1:B:131:LYS:HD2	1:B:149:ILE:CD1	2.14	0.78
1:B:230:GLN:HB3	1:G:306:ILE:HG23	1.65	0.78
1:B:231:ALA:H	1:G:308:ASN:HD21	1.29	0.78
1:B:246:ILE:CD1	1:G:323:VAL:HG13	2.14	0.78
1:C:131:LYS:HD2	1:C:149:ILE:CD1	2.14	0.78
1:E:61:LEU:HB3	1:E:66:TYR:CE1	2.19	0.78
1:E:131:LYS:HD2	1:E:149:ILE:CD1	2.14	0.78
1:F:27:LYS:HE2	1:F:35:ARG:HE	1.49	0.78
1:F:164:LEU:HD12	1:F:316:GLU:HB2	1.66	0.78
1:G:203:GLU:HB2	1:J:197:SER:C	2.04	0.78
1:H:164:LEU:HD12	1:H:316:GLU:HB2	1.66	0.78
1:I:114:LEU:HG	1:I:156:ALA:HB1	1.66	0.78
1:J:164:LEU:HD12	1:J:316:GLU:HB2	1.66	0.78
1:K:278:GLN:H	1:L:218:THR:HG1	1.31	0.78
1:L:114:LEU:HG	1:L:156:ALA:HB1	1.66	0.78
1:N:61:LEU:HB3	1:N:66:TYR:CE1	2.19	0.78
1:N:320:LYS:HD3	1:O:50:ILE:H	1.45	0.78
1:O:54:GLY:HA3	1:O:56:SER:N	1.99	0.78
1:P:54:GLY:HA3	1:P:56:SER:N	1.99	0.78
1:P:131:LYS:HD2	1:P:149:ILE:CD1	2.14	0.78
1:B:61:LEU:HB3	1:B:66:TYR:CE1	2.19	0.78
1:B:228:ASN:C	1:G:308:ASN:HB3	2.03	0.78
1:E:114:LEU:HG	1:E:156:ALA:HB1	1.66	0.78
1:E:164:LEU:HD12	1:E:316:GLU:HB2	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:202:GLU:HG3	1:J:271:LYS:HG2	1.65	0.78
1:H:131:LYS:HD2	1:H:149:ILE:CD1	2.14	0.78
1:J:73:VAL:CG2	1:N:240:MET:HE3	1.70	0.78
1:M:131:LYS:HD2	1:M:149:ILE:CD1	2.14	0.78
1:O:323:VAL:HG22	1:P:47:ASP:CA	2.10	0.78
1:A:22:ILE:HB	1:A:27:LYS:CE	2.13	0.77
1:A:131:LYS:HD2	1:A:149:ILE:CD1	2.14	0.77
1:D:131:LYS:HD2	1:D:149:ILE:CD1	2.14	0.77
1:D:164:LEU:HD12	1:D:316:GLU:HB2	1.66	0.77
1:I:164:LEU:HD12	1:I:316:GLU:HB2	1.66	0.77
1:J:131:LYS:HD2	1:J:149:ILE:CD1	2.14	0.77
1:L:52:ILE:HG12	1:P:245:GLU:O	1.84	0.77
1:E:26:LYS:CB	1:E:97:VAL:HG13	2.13	0.77
1:F:251:SER:O	1:F:254:ILE:HG12	1.82	0.77
1:G:54:GLY:HA3	1:G:56:SER:N	1.99	0.77
1:G:131:LYS:HD2	1:G:149:ILE:CD1	2.14	0.77
1:H:22:ILE:HB	1:H:27:LYS:CE	2.13	0.77
1:H:54:GLY:HA3	1:H:56:SER:N	1.99	0.77
1:H:251:SER:O	1:H:254:ILE:HG12	1.82	0.77
1:I:245:GLU:OE2	1:N:51:ASP:O	2.02	0.77
1:J:114:LEU:HG	1:J:156:ALA:HB1	1.66	0.77
1:L:131:LYS:HD2	1:L:149:ILE:CD1	2.14	0.77
1:M:22:ILE:HB	1:M:27:LYS:CE	2.14	0.77
1:O:169:PHE:HD2	1:P:76:SER:O	1.65	0.77
1:O:326:TYR:HB2	1:P:47:ASP:OD2	1.80	0.77
1:B:26:LYS:CB	1:B:97:VAL:HG13	2.13	0.77
1:C:164:LEU:HD12	1:C:316:GLU:HB2	1.66	0.77
1:I:165:GLU:CG	1:N:241:LYS:O	2.31	0.77
1:K:114:LEU:HG	1:K:156:ALA:HB1	1.66	0.77
1:K:275:LYS:NZ	1:L:224:ASN:HD21	1.72	0.77
1:M:61:LEU:HB3	1:M:66:TYR:CE1	2.19	0.77
1:N:131:LYS:HD2	1:N:149:ILE:CD1	2.14	0.77
1:N:322:ALA:O	1:O:47:ASP:CB	2.31	0.77
1:P:61:LEU:HB3	1:P:66:TYR:CE1	2.19	0.77
1:A:54:GLY:HA3	1:A:56:SER:N	1.99	0.77
1:A:228:ASN:H	1:B:301:PRO:HG3	1.49	0.77
1:C:27:LYS:HE2	1:C:35:ARG:HE	1.49	0.77
1:L:27:LYS:CE	1:L:35:ARG:HE	1.98	0.77
1:L:54:GLY:HA3	1:L:56:SER:N	1.99	0.77
1:N:301:PRO:HG3	1:O:228:ASN:H	1.49	0.77
1:A:227:THR:CG2	1:B:299:THR:O	2.14	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:61:LEU:HB3	1:D:66:TYR:CE1	2.19	0.77
1:E:27:LYS:HE2	1:E:35:ARG:HE	1.49	0.77
1:F:22:ILE:HB	1:F:27:LYS:CE	2.14	0.77
1:F:26:LYS:CB	1:F:97:VAL:HG13	2.13	0.77
1:G:61:LEU:HB3	1:G:66:TYR:CE1	2.19	0.77
1:G:63:GLY:O	1:G:64:LYS:HB3	1.83	0.77
1:H:61:LEU:HB3	1:H:66:TYR:CE1	2.19	0.77
1:H:271:LYS:NZ	1:K:265:ALA:HA	1.99	0.77
1:H:274:PHE:CZ	1:K:203:GLU:CD	2.58	0.77
1:I:308:ASN:OD1	1:N:230:GLN:CA	2.25	0.77
1:M:114:LEU:HG	1:M:156:ALA:HB1	1.66	0.77
1:N:27:LYS:HE2	1:N:35:ARG:HE	1.49	0.77
1:P:59:ILE:CG2	1:P:66:TYR:HB2	2.14	0.77
1:A:59:ILE:CG2	1:A:66:TYR:HB2	2.14	0.77
1:A:231:ALA:N	1:F:308:ASN:HD22	1.80	0.77
1:C:26:LYS:CB	1:C:97:VAL:HG13	2.13	0.77
1:C:27:LYS:CE	1:C:35:ARG:HE	1.98	0.77
1:D:245:GLU:OE2	1:H:76:SER:CA	2.30	0.77
1:E:54:GLY:HA3	1:E:56:SER:N	1.99	0.77
1:E:218:THR:HG1	1:F:278:GLN:H	1.33	0.77
1:E:251:SER:O	1:E:254:ILE:HG12	1.82	0.77
1:H:271:LYS:NZ	1:K:268:LEU:HD22	1.99	0.77
1:I:63:GLY:O	1:I:64:LYS:HB3	1.83	0.77
1:J:27:LYS:CE	1:J:35:ARG:HE	1.98	0.77
1:J:61:LEU:HB3	1:J:66:TYR:CE1	2.19	0.77
1:J:63:GLY:O	1:J:64:LYS:HB3	1.83	0.77
1:N:114:LEU:HG	1:N:156:ALA:HB1	1.66	0.77
1:B:47:ASP:CB	1:C:322:ALA:O	2.31	0.77
1:C:54:GLY:HA3	1:C:56:SER:N	1.99	0.77
1:C:228:ASN:H	1:D:301:PRO:HG3	1.49	0.77
1:D:22:ILE:HB	1:D:27:LYS:CE	2.13	0.77
1:D:59:ILE:CG2	1:D:66:TYR:HB2	2.14	0.77
1:E:47:ASP:O	1:F:323:VAL:CA	2.30	0.77
1:F:131:LYS:HD2	1:F:149:ILE:CD1	2.14	0.77
1:G:271:LYS:HG2	1:J:202:GLU:HG3	1.65	0.77
1:H:63:GLY:O	1:H:64:LYS:HB3	1.83	0.77
1:I:278:GLN:H	1:J:218:THR:HG1	1.32	0.77
1:M:250:SER:HB3	1:M:253:VAL:CB	2.14	0.77
1:N:250:SER:HB3	1:N:253:VAL:CB	2.14	0.77
1:O:22:ILE:HB	1:O:27:LYS:CE	2.14	0.77
1:O:63:GLY:O	1:O:64:LYS:HB3	1.83	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:219:ASP:HA	1:D:224:ASN:HB2	0.86	0.77
1:G:49:TYR:CE2	1:G:75:ASP:HA	2.20	0.77
1:H:202:GLU:OE2	1:K:272:ARG:HA	1.85	0.77
1:H:268:LEU:CA	1:K:268:LEU:HD11	2.15	0.77
1:K:61:LEU:HB3	1:K:66:TYR:CE1	2.19	0.77
1:M:322:ALA:O	1:N:47:ASP:CB	2.31	0.77
1:N:54:GLY:HA3	1:N:56:SER:N	1.99	0.77
1:O:114:LEU:HG	1:O:156:ALA:HB1	1.66	0.77
1:P:27:LYS:HE2	1:P:35:ARG:HE	1.49	0.77
1:B:164:LEU:HD12	1:B:316:GLU:HB2	1.66	0.77
1:C:61:LEU:HB3	1:C:66:TYR:CE1	2.19	0.77
1:C:232:GLU:N	1:H:308:ASN:HD21	1.82	0.77
1:F:27:LYS:CE	1:F:35:ARG:HE	1.98	0.77
1:G:26:LYS:CB	1:G:97:VAL:HG13	2.13	0.77
1:I:52:ILE:HG23	1:M:248:THR:HA	1.64	0.77
1:I:131:LYS:HD2	1:I:149:ILE:CD1	2.14	0.77
1:J:22:ILE:HB	1:J:27:LYS:CE	2.14	0.77
1:J:54:GLY:HA3	1:J:56:SER:N	1.99	0.77
1:M:27:LYS:CE	1:M:35:ARG:HE	1.98	0.77
1:O:44:ASN:HB2	1:O:64:LYS:HZ1	1.47	0.77
1:O:131:LYS:HD2	1:O:149:ILE:CD1	2.14	0.77
1:A:27:LYS:CE	1:A:35:ARG:HE	1.98	0.77
1:A:231:ALA:H	1:F:308:ASN:HD21	1.32	0.77
1:B:59:ILE:CG2	1:B:66:TYR:HB2	2.14	0.77
1:D:26:LYS:CB	1:D:97:VAL:HG13	2.13	0.77
1:D:246:ILE:HG12	1:H:50:ILE:C	1.94	0.77
1:E:27:LYS:CE	1:E:35:ARG:HE	1.98	0.77
1:F:203:GLU:CD	1:I:274:PHE:CZ	2.57	0.77
1:G:27:LYS:CE	1:G:35:ARG:HE	1.98	0.77
1:J:52:ILE:HG23	1:N:247:ASP:O	1.85	0.77
1:L:22:ILE:HB	1:L:27:LYS:CE	2.14	0.77
1:L:230:GLN:HE22	1:P:290:GLN:HB3	1.50	0.77
1:O:59:ILE:CG2	1:O:66:TYR:HB2	2.14	0.77
1:O:250:SER:HB3	1:O:253:VAL:CB	2.14	0.77
1:A:51:ASP:O	1:F:245:GLU:OE2	2.03	0.76
1:A:114:LEU:HG	1:A:156:ALA:HB1	1.66	0.76
1:A:248:THR:CG2	1:E:52:ILE:HA	2.08	0.76
1:B:246:ILE:HD13	1:F:50:ILE:HG23	0.84	0.76
1:C:59:ILE:CG2	1:C:66:TYR:HB2	2.13	0.76
1:I:49:TYR:CE2	1:I:75:ASP:HA	2.20	0.76
1:K:234:ALA:CB	1:K:235:LEU:HA	2.15	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:44:ASN:HB2	1:L:64:LYS:HZ1	1.48	0.76
1:M:59:ILE:CG2	1:M:66:TYR:HB2	2.14	0.76
1:O:322:ALA:O	1:P:47:ASP:CB	2.31	0.76
1:A:229:GLU:N	1:F:309:ASN:OD1	2.18	0.76
1:A:245:GLU:CB	1:E:75:ASP:N	2.29	0.76
1:C:219:ASP:HA	1:C:224:ASN:HB2	0.86	0.76
1:G:197:SER:C	1:J:203:GLU:HB2	2.05	0.76
1:H:27:LYS:CE	1:H:35:ARG:HE	1.98	0.76
1:K:49:TYR:CE2	1:K:75:ASP:HA	2.20	0.76
1:K:131:LYS:HD2	1:K:149:ILE:CD1	2.14	0.76
1:P:114:LEU:HG	1:P:156:ALA:HB1	1.66	0.76
1:A:50:ILE:H	1:B:320:LYS:HD3	1.45	0.76
1:B:114:LEU:HG	1:B:156:ALA:HB1	1.66	0.76
1:D:27:LYS:CE	1:D:35:ARG:HE	1.98	0.76
1:D:116:VAL:CG2	1:D:121:LYS:HG3	2.16	0.76
1:F:63:GLY:O	1:F:64:LYS:HB3	1.83	0.76
1:N:116:VAL:CG2	1:N:121:LYS:HG3	2.16	0.76
1:O:116:VAL:CG2	1:O:121:LYS:HG3	2.16	0.76
1:A:164:LEU:HD12	1:A:316:GLU:HB2	1.66	0.76
1:B:228:ASN:H	1:C:301:PRO:HG3	1.49	0.76
1:B:246:ILE:CG1	1:G:320:LYS:HA	2.16	0.76
1:E:63:GLY:O	1:E:64:LYS:HB3	1.83	0.76
1:F:61:LEU:HB3	1:F:66:TYR:CE1	2.19	0.76
1:F:218:THR:CA	1:G:278:GLN:OE1	2.34	0.76
1:H:49:TYR:CE2	1:H:75:ASP:HA	2.20	0.76
1:H:204:HIS:CE1	1:K:274:PHE:HD1	2.02	0.76
1:J:308:ASN:HD22	1:O:231:ALA:C	1.89	0.76
1:K:308:ASN:HB3	1:P:229:GLU:N	1.58	0.76
1:P:250:SER:HB3	1:P:253:VAL:CB	2.14	0.76
1:B:27:LYS:CE	1:B:35:ARG:HE	1.98	0.76
1:B:49:TYR:C	1:C:320:LYS:CG	2.21	0.76
1:E:49:TYR:CD1	1:F:320:LYS:O	2.26	0.76
1:F:183:ASN:ND2	1:I:197:SER:HB3	2.01	0.76
1:G:218:THR:CA	1:H:278:GLN:OE1	2.34	0.76
1:H:26:LYS:CB	1:H:97:VAL:HG13	2.13	0.76
1:I:58:LYS:NZ	1:I:65:GLU:HG2	2.01	0.76
1:J:222:ASN:HB2	1:J:237:ASN:HB2	1.68	0.76
1:L:222:ASN:HB2	1:L:237:ASN:HB2	1.68	0.76
1:N:27:LYS:CE	1:N:35:ARG:HE	1.98	0.76
1:N:59:ILE:CG2	1:N:66:TYR:HB2	2.13	0.76
1:P:26:LYS:CB	1:P:97:VAL:HG13	2.13	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:49:TYR:CE2	1:A:75:ASP:HA	2.20	0.76
1:A:58:LYS:NZ	1:A:65:GLU:HG2	2.01	0.76
1:A:116:VAL:CG2	1:A:121:LYS:HG3	2.16	0.76
1:A:246:ILE:CG1	1:F:320:LYS:HA	2.16	0.76
1:B:219:ASP:HA	1:B:224:ASN:HB2	0.86	0.76
1:C:47:ASP:C	1:D:320:LYS:C	2.44	0.76
1:C:234:ALA:CB	1:C:235:LEU:HA	2.15	0.76
1:D:58:LYS:NZ	1:D:65:GLU:HG2	2.01	0.76
1:E:234:ALA:CB	1:E:235:LEU:HA	2.16	0.76
1:F:58:LYS:NZ	1:F:65:GLU:HG2	2.01	0.76
1:F:198:GLU:N	1:I:203:GLU:HB2	1.99	0.76
1:F:203:GLU:HB2	1:I:198:GLU:CA	2.15	0.76
1:G:197:SER:CB	1:J:183:ASN:HD21	1.96	0.76
1:H:265:ALA:CA	1:K:271:LYS:HZ2	1.95	0.76
1:I:27:LYS:CE	1:I:35:ARG:HE	1.98	0.76
1:I:278:GLN:OE1	1:J:218:THR:CA	2.34	0.76
1:K:27:LYS:CE	1:K:35:ARG:HE	1.97	0.76
1:K:222:ASN:HB2	1:K:237:ASN:HB2	1.68	0.76
1:L:49:TYR:CE2	1:L:75:ASP:HA	2.20	0.76
1:M:49:TYR:CE2	1:M:75:ASP:HA	2.20	0.76
1:M:168:ASN:HA	1:N:72:GLY:HA3	1.67	0.76
1:M:222:ASN:HB2	1:M:237:ASN:HB2	1.68	0.76
1:N:49:TYR:CE2	1:N:75:ASP:HA	2.20	0.76
1:N:58:LYS:NZ	1:N:65:GLU:HG2	2.01	0.76
1:N:322:ALA:O	1:O:47:ASP:HB3	1.85	0.76
1:O:322:ALA:O	1:P:47:ASP:HB3	1.85	0.76
1:B:222:ASN:HB2	1:B:237:ASN:HB2	1.68	0.76
1:C:116:VAL:CG2	1:C:121:LYS:HG3	2.16	0.76
1:D:27:LYS:HE2	1:D:35:ARG:HE	1.49	0.76
1:D:248:THR:CG2	1:H:52:ILE:HG23	2.16	0.76
1:E:58:LYS:NZ	1:E:65:GLU:HG2	2.01	0.76
1:E:218:THR:CA	1:F:278:GLN:OE1	2.34	0.76
1:G:202:GLU:HA	1:J:272:ARG:CB	2.16	0.76
1:H:116:VAL:CG2	1:H:121:LYS:HG3	2.16	0.76
1:H:201:ILE:O	1:K:200:PHE:HB3	1.85	0.76
1:I:27:LYS:HE2	1:I:35:ARG:HE	1.49	0.76
1:I:73:VAL:CB	1:M:240:MET:CE	2.63	0.76
1:I:165:GLU:OE2	1:N:241:LYS:CA	2.32	0.76
1:I:234:ALA:CB	1:I:235:LEU:HA	2.16	0.76
1:I:323:VAL:CA	1:J:47:ASP:O	2.30	0.76
1:J:278:GLN:OE1	1:K:218:THR:CA	2.34	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:27:LYS:HE2	1:K:35:ARG:HE	1.49	0.76
1:M:116:VAL:CG2	1:M:121:LYS:HG3	2.16	0.76
1:N:164:LEU:HD12	1:N:316:GLU:HB2	1.66	0.76
1:N:299:THR:O	1:O:227:THR:CG2	2.14	0.76
1:O:164:LEU:HD12	1:O:316:GLU:HB2	1.66	0.76
1:O:299:THR:O	1:P:227:THR:CG2	2.14	0.76
1:O:301:PRO:HG3	1:P:228:ASN:H	1.49	0.76
1:P:27:LYS:CE	1:P:35:ARG:HE	1.98	0.76
1:P:116:VAL:CG2	1:P:121:LYS:HG3	2.16	0.76
1:A:219:ASP:HA	1:A:224:ASN:HB2	0.86	0.76
1:A:222:ASN:HB2	1:A:237:ASN:HB2	1.68	0.76
1:A:231:ALA:HB2	1:F:307:THR:HA	1.67	0.76
1:A:246:ILE:CD1	1:F:320:LYS:O	2.33	0.76
1:B:47:ASP:HB3	1:C:322:ALA:O	1.85	0.76
1:C:47:ASP:HB3	1:D:322:ALA:O	1.85	0.76
1:C:222:ASN:HB2	1:C:237:ASN:HB2	1.68	0.76
1:G:116:VAL:CG2	1:G:121:LYS:HG3	2.16	0.76
1:H:222:ASN:HB2	1:H:237:ASN:HB2	1.68	0.76
1:I:222:ASN:HB2	1:I:237:ASN:HB2	1.68	0.76
1:J:27:LYS:HE2	1:J:35:ARG:HE	1.49	0.76
1:L:250:SER:HB3	1:L:253:VAL:CB	2.14	0.76
1:M:164:LEU:HD12	1:M:316:GLU:HB2	1.66	0.76
1:M:322:ALA:O	1:N:47:ASP:HB3	1.86	0.76
1:N:168:ASN:HA	1:O:72:GLY:HA3	1.67	0.76
1:P:164:LEU:HD12	1:P:316:GLU:HB2	1.66	0.76
1:A:47:ASP:HB3	1:B:322:ALA:O	1.86	0.76
1:A:230:GLN:CB	1:F:306:ILE:HG13	2.11	0.76
1:A:234:ALA:CB	1:A:235:LEU:HA	2.15	0.76
1:C:114:LEU:HG	1:C:156:ALA:HB1	1.66	0.76
1:D:222:ASN:HB2	1:D:237:ASN:HB2	1.68	0.76
1:D:245:GLU:HB3	1:H:74:GLU:C	2.05	0.76
1:E:222:ASN:HB2	1:E:237:ASN:HB2	1.68	0.76
1:E:225:LEU:HD13	1:F:300:TYR:CZ	2.20	0.76
1:G:58:LYS:NZ	1:G:65:GLU:HG2	2.01	0.76
1:H:234:ALA:CB	1:H:235:LEU:HA	2.16	0.76
1:I:116:VAL:CG2	1:I:121:LYS:HG3	2.16	0.76
1:I:250:SER:HB3	1:I:253:VAL:CB	2.14	0.76
1:J:250:SER:HB3	1:J:253:VAL:CB	2.14	0.76
1:K:164:LEU:HD13	1:K:313:THR:HA	1.68	0.76
1:K:168:ASN:CG	1:L:71:GLN:HE22	1.70	0.76
1:K:250:SER:HB3	1:K:253:VAL:CB	2.14	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:27:LYS:CE	1:O:35:ARG:HE	1.98	0.76
1:O:49:TYR:CE2	1:O:75:ASP:HA	2.20	0.76
1:O:168:ASN:HA	1:P:72:GLY:HA3	1.67	0.76
1:P:49:TYR:CE2	1:P:75:ASP:HA	2.20	0.76
1:P:58:LYS:NZ	1:P:65:GLU:HG2	2.01	0.76
1:B:240:MET:HE3	1:F:73:VAL:HG21	0.76	0.76
1:C:50:ILE:CA	1:D:320:LYS:HG2	2.16	0.76
1:J:58:LYS:NZ	1:J:65:GLU:HG2	2.01	0.76
1:K:166:GLN:HB3	1:P:242:LYS:CB	2.15	0.76
1:K:284:PHE:CZ	1:K:296:ILE:HG12	2.21	0.76
1:N:222:ASN:HB2	1:N:237:ASN:HB2	1.68	0.76
1:P:234:ALA:CB	1:P:235:LEU:HA	2.15	0.76
1:A:46:GLU:CA	1:B:324:ALA:HB1	1.92	0.75
1:C:49:TYR:CE2	1:C:75:ASP:HA	2.20	0.75
1:C:240:MET:CE	1:G:73:VAL:HB	2.16	0.75
1:C:246:ILE:HD12	1:H:320:LYS:HA	0.76	0.75
1:F:116:VAL:CG2	1:F:121:LYS:HG3	2.16	0.75
1:G:222:ASN:HB2	1:G:237:ASN:HB2	1.68	0.75
1:G:272:ARG:CB	1:J:202:GLU:HA	2.16	0.75
1:H:58:LYS:NZ	1:H:65:GLU:HG2	2.01	0.75
1:I:52:ILE:HG23	1:M:247:ASP:O	1.85	0.75
1:K:308:ASN:HD22	1:P:232:GLU:H	0.78	0.75
1:K:308:ASN:HD21	1:P:231:ALA:N	1.79	0.75
1:K:308:ASN:OD1	1:P:230:GLN:HA	1.86	0.75
1:L:234:ALA:CB	1:L:235:LEU:HA	2.16	0.75
1:M:299:THR:O	1:N:227:THR:CG2	2.14	0.75
1:M:320:LYS:HG2	1:N:50:ILE:CA	2.16	0.75
1:M:323:VAL:HG22	1:N:47:ASP:CA	2.10	0.75
1:O:58:LYS:NZ	1:O:65:GLU:HG2	2.01	0.75
1:B:50:ILE:CA	1:C:320:LYS:HG2	2.16	0.75
1:B:234:ALA:CB	1:B:235:LEU:HA	2.15	0.75
1:B:245:GLU:O	1:F:52:ILE:HG12	1.86	0.75
1:B:258:LYS:CE	1:B:295:GLN:HG3	2.17	0.75
1:C:50:ILE:HG23	1:D:320:LYS:HG2	1.68	0.75
1:D:49:TYR:CE2	1:D:75:ASP:HA	2.20	0.75
1:D:240:MET:CE	1:H:73:VAL:HG21	2.16	0.75
1:F:203:GLU:CB	1:I:197:SER:O	2.33	0.75
1:G:234:ALA:CB	1:G:235:LEU:HA	2.16	0.75
1:J:116:VAL:CG2	1:J:121:LYS:HG3	2.16	0.75
1:J:234:ALA:CB	1:J:235:LEU:HA	2.15	0.75
1:K:278:GLN:OE1	1:L:218:THR:CA	2.34	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:116:VAL:CG2	1:L:121:LYS:HG3	2.16	0.75
1:N:320:LYS:HG2	1:O:50:ILE:CA	2.16	0.75
1:O:26:LYS:CB	1:O:97:VAL:HG13	2.13	0.75
1:O:27:LYS:HE2	1:O:35:ARG:HE	1.49	0.75
1:F:222:ASN:HB2	1:F:237:ASN:HB2	1.68	0.75
1:F:224:ASN:CA	1:G:277:ASP:O	2.14	0.75
1:G:183:ASN:HD21	1:J:197:SER:CB	1.97	0.75
1:K:56:SER:HB2	1:K:70:GLU:HB3	1.69	0.75
1:L:12:LEU:CB	1:L:110:LEU:HD12	2.16	0.75
1:L:26:LYS:CB	1:L:97:VAL:HG13	2.13	0.75
1:M:320:LYS:HG2	1:N:50:ILE:HG23	1.68	0.75
1:O:222:ASN:HB2	1:O:237:ASN:HB2	1.68	0.75
1:P:27:LYS:HZ3	1:P:35:ARG:HH21	1.35	0.75
1:P:222:ASN:HB2	1:P:237:ASN:HB2	1.68	0.75
1:B:116:VAL:CG2	1:B:121:LYS:HG3	2.16	0.75
1:D:284:PHE:CZ	1:D:296:ILE:HG12	2.22	0.75
1:F:234:ALA:CB	1:F:235:LEU:HA	2.16	0.75
1:H:56:SER:HB2	1:H:70:GLU:HB3	1.69	0.75
1:I:284:PHE:CZ	1:I:296:ILE:HG12	2.22	0.75
1:J:12:LEU:CB	1:J:110:LEU:HD12	2.17	0.75
1:J:49:TYR:CE2	1:J:75:ASP:HA	2.20	0.75
1:J:56:SER:HB2	1:J:70:GLU:HB3	1.69	0.75
1:J:278:GLN:H	1:K:218:THR:HG1	1.31	0.75
1:K:116:VAL:HG22	1:K:122:ALA:HB3	1.69	0.75
1:K:300:TYR:CZ	1:L:225:LEU:HD13	2.20	0.75
1:L:56:SER:HB2	1:L:70:GLU:HB3	1.69	0.75
1:M:58:LYS:NZ	1:M:65:GLU:HG2	2.01	0.75
1:M:258:LYS:CE	1:M:295:GLN:HG3	2.17	0.75
1:A:164:LEU:HD13	1:A:313:THR:HA	1.68	0.75
1:B:49:TYR:CE2	1:B:75:ASP:HA	2.20	0.75
1:C:58:LYS:NZ	1:C:65:GLU:HG2	2.01	0.75
1:E:116:VAL:CG2	1:E:121:LYS:HG3	2.16	0.75
1:F:49:TYR:CE2	1:F:75:ASP:HA	2.20	0.75
1:G:56:SER:HB2	1:G:70:GLU:HB3	1.69	0.75
1:G:271:LYS:CE	1:J:202:GLU:HG3	2.17	0.75
1:H:202:GLU:CA	1:K:272:ARG:HG3	2.16	0.75
1:I:56:SER:HB2	1:I:70:GLU:HB3	1.69	0.75
1:I:308:ASN:ND2	1:N:231:ALA:CA	2.49	0.75
1:I:309:ASN:O	1:N:229:GLU:OE2	1.96	0.75
1:L:27:LYS:HE2	1:L:35:ARG:HE	1.49	0.75
1:L:58:LYS:NZ	1:L:65:GLU:HG2	2.01	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:116:VAL:HG22	1:L:122:ALA:HB3	1.69	0.75
1:N:320:LYS:C	1:O:47:ASP:C	2.44	0.75
1:O:258:LYS:CE	1:O:295:GLN:HG3	2.17	0.75
1:P:258:LYS:CE	1:P:295:GLN:HG3	2.17	0.75
1:A:50:ILE:CA	1:B:320:LYS:HG2	2.16	0.75
1:C:284:PHE:CZ	1:C:296:ILE:HG12	2.22	0.75
1:D:258:LYS:CE	1:D:295:GLN:HG3	2.17	0.75
1:E:79:THR:HA	1:F:170:LYS:CD	2.16	0.75
1:F:12:LEU:CB	1:F:110:LEU:HD12	2.16	0.75
1:F:56:SER:HB2	1:F:70:GLU:HB3	1.69	0.75
1:H:116:VAL:HG22	1:H:122:ALA:HB3	1.69	0.75
1:H:116:VAL:HG23	1:H:121:LYS:HG3	1.69	0.75
1:I:300:TYR:CZ	1:J:225:LEU:HD13	2.20	0.75
1:J:116:VAL:HG22	1:J:122:ALA:HB3	1.69	0.75
1:M:234:ALA:CB	1:M:235:LEU:HA	2.15	0.75
1:M:284:PHE:CZ	1:M:296:ILE:HG12	2.22	0.75
1:M:320:LYS:CE	1:N:50:ILE:CD1	2.64	0.75
1:N:234:ALA:CB	1:N:235:LEU:HA	2.15	0.75
1:O:12:LEU:CB	1:O:110:LEU:HD12	2.17	0.75
1:O:234:ALA:CB	1:O:235:LEU:HA	2.15	0.75
1:A:12:LEU:CB	1:A:110:LEU:HD12	2.16	0.75
1:C:12:LEU:CB	1:C:110:LEU:HD12	2.17	0.75
1:C:47:ASP:CB	1:D:322:ALA:O	2.31	0.75
1:D:114:LEU:HG	1:D:156:ALA:HB1	1.66	0.75
1:E:12:LEU:CB	1:E:110:LEU:HD12	2.17	0.75
1:F:164:LEU:HD13	1:F:313:THR:HA	1.68	0.75
1:G:116:VAL:HG22	1:G:122:ALA:HB3	1.69	0.75
1:H:197:SER:HB3	1:K:183:ASN:ND2	2.02	0.75
1:H:284:PHE:CZ	1:H:296:ILE:HG12	2.21	0.75
1:I:164:LEU:HD13	1:I:313:THR:HA	1.68	0.75
1:I:170:LYS:CD	1:J:79:THR:HA	2.16	0.75
1:J:164:LEU:HD13	1:J:313:THR:HA	1.68	0.75
1:K:116:VAL:CG2	1:K:121:LYS:HG3	2.16	0.75
1:L:258:LYS:CE	1:L:295:GLN:HG3	2.17	0.75
1:N:284:PHE:CZ	1:N:296:ILE:HG12	2.22	0.75
1:P:284:PHE:CZ	1:P:296:ILE:HG12	2.22	0.75
1:A:258:LYS:CE	1:A:295:GLN:HG3	2.17	0.75
1:B:164:LEU:HD13	1:B:313:THR:HA	1.68	0.75
1:C:231:ALA:C	1:H:308:ASN:ND2	2.40	0.75
1:C:246:ILE:HD13	1:H:323:VAL:CG2	2.01	0.75
1:E:56:SER:HB2	1:E:70:GLU:HB3	1.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:116:VAL:HG22	1:I:122:ALA:HB3	1.69	0.75
1:J:258:LYS:CE	1:J:295:GLN:HG3	2.17	0.75
1:K:26:LYS:CB	1:K:97:VAL:HG13	2.13	0.75
1:K:58:LYS:NZ	1:K:65:GLU:HG2	2.01	0.75
1:O:320:LYS:CE	1:P:50:ILE:CD1	2.64	0.75
1:P:11:THR:HB	1:P:22:ILE:CG1	2.17	0.75
1:B:50:ILE:HG23	1:C:320:LYS:HG2	1.68	0.75
1:B:58:LYS:NZ	1:B:65:GLU:HG2	2.01	0.75
1:B:284:PHE:CZ	1:B:296:ILE:HG12	2.22	0.75
1:E:116:VAL:HG22	1:E:122:ALA:HB3	1.69	0.75
1:G:12:LEU:CB	1:G:110:LEU:HD12	2.17	0.75
1:G:116:VAL:HG23	1:G:121:LYS:HG3	1.69	0.75
1:H:12:LEU:CB	1:H:110:LEU:HD12	2.16	0.75
1:L:219:ASP:HA	1:L:224:ASN:HB2	0.86	0.75
1:M:12:LEU:CB	1:M:110:LEU:HD12	2.17	0.75
1:O:320:LYS:HG2	1:P:50:ILE:CA	2.16	0.75
1:B:230:GLN:HB2	1:G:307:THR:C	2.07	0.74
1:C:258:LYS:CE	1:C:295:GLN:HG3	2.17	0.74
1:D:116:VAL:HG22	1:D:122:ALA:HB3	1.69	0.74
1:D:234:ALA:CB	1:D:235:LEU:HA	2.15	0.74
1:E:284:PHE:CZ	1:E:296:ILE:HG12	2.21	0.74
1:F:79:THR:HA	1:G:170:LYS:CD	2.16	0.74
1:F:116:VAL:HG22	1:F:122:ALA:HB3	1.69	0.74
1:G:198:GLU:CG	1:J:203:GLU:CB	2.57	0.74
1:G:203:GLU:CB	1:J:198:GLU:CG	2.58	0.74
1:G:284:PHE:CZ	1:G:296:ILE:HG12	2.22	0.74
1:H:120:ALA:O	1:H:124:GLU:HG2	1.87	0.74
1:J:52:ILE:CG1	1:N:245:GLU:O	2.35	0.74
1:L:164:LEU:HD13	1:L:313:THR:HA	1.68	0.74
1:N:11:THR:HB	1:N:22:ILE:CG1	2.17	0.74
1:O:284:PHE:CZ	1:O:296:ILE:HG12	2.22	0.74
1:C:116:VAL:HG22	1:C:122:ALA:HB3	1.69	0.74
1:D:12:LEU:CB	1:D:110:LEU:HD12	2.17	0.74
1:G:120:ALA:O	1:G:124:GLU:HG2	1.87	0.74
1:H:164:LEU:HD13	1:H:313:THR:HA	1.68	0.74
1:H:203:GLU:HB2	1:K:198:GLU:N	2.02	0.74
1:J:166:GLN:CA	1:O:242:LYS:C	2.34	0.74
1:J:308:ASN:HB3	1:O:229:GLU:N	1.55	0.74
1:K:51:ASP:HA	1:K:74:GLU:OE2	1.88	0.74
1:L:27:LYS:NZ	1:L:35:ARG:HH21	1.85	0.74
1:O:299:THR:CA	1:P:227:THR:HG21	2.16	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:12:LEU:CB	1:P:110:LEU:HD12	2.16	0.74
1:P:27:LYS:NZ	1:P:35:ARG:HH21	1.85	0.74
1:A:47:ASP:CB	1:B:322:ALA:O	2.31	0.74
1:A:131:LYS:HD2	1:A:149:ILE:HD12	1.70	0.74
1:A:245:GLU:HB3	1:E:75:ASP:N	1.59	0.74
1:A:284:PHE:CZ	1:A:296:ILE:HG12	2.22	0.74
1:B:50:ILE:HG12	1:C:320:LYS:HE3	1.53	0.74
1:B:50:ILE:CD1	1:C:320:LYS:CE	2.64	0.74
1:B:116:VAL:HG22	1:B:122:ALA:HB3	1.69	0.74
1:B:230:GLN:C	1:G:308:ASN:ND2	2.41	0.74
1:D:27:LYS:NZ	1:D:35:ARG:HH21	1.85	0.74
1:F:258:LYS:CE	1:F:295:GLN:HG3	2.17	0.74
1:G:131:LYS:HD2	1:G:149:ILE:HD12	1.69	0.74
1:H:131:LYS:HD2	1:H:149:ILE:HD12	1.70	0.74
1:J:170:LYS:CD	1:K:79:THR:HA	2.16	0.74
1:K:170:LYS:CD	1:L:79:THR:HA	2.16	0.74
1:M:51:ASP:HA	1:M:74:GLU:OE2	1.88	0.74
1:A:49:TYR:CG	1:B:320:LYS:CD	2.55	0.74
1:A:120:ALA:O	1:A:124:GLU:HG2	1.87	0.74
1:B:131:LYS:HD2	1:B:149:ILE:HD12	1.70	0.74
1:C:131:LYS:HD2	1:C:149:ILE:HD12	1.70	0.74
1:D:11:THR:HB	1:D:22:ILE:CG1	2.17	0.74
1:D:250:SER:HB3	1:D:253:VAL:CB	2.14	0.74
1:E:27:LYS:NZ	1:E:35:ARG:HH21	1.85	0.74
1:G:79:THR:HA	1:H:170:LYS:CD	2.16	0.74
1:G:258:LYS:CE	1:G:295:GLN:HG3	2.17	0.74
1:H:258:LYS:CE	1:H:295:GLN:HG3	2.17	0.74
1:K:258:LYS:CE	1:K:295:GLN:HG3	2.17	0.74
1:M:320:LYS:CD	1:N:49:TYR:CG	2.55	0.74
1:O:27:LYS:NZ	1:O:35:ARG:HH21	1.85	0.74
1:P:164:LEU:HD13	1:P:313:THR:HA	1.68	0.74
1:A:56:SER:HB2	1:A:70:GLU:HB3	1.69	0.74
1:A:116:VAL:HG22	1:A:122:ALA:HB3	1.69	0.74
1:B:12:LEU:CB	1:B:110:LEU:HD12	2.16	0.74
1:D:51:ASP:HA	1:D:74:GLU:OE2	1.88	0.74
1:D:131:LYS:HD2	1:D:149:ILE:HD12	1.70	0.74
1:F:268:LEU:HD22	1:I:271:LYS:NZ	2.03	0.74
1:F:284:PHE:CZ	1:F:296:ILE:HG12	2.22	0.74
1:G:202:GLU:HG3	1:J:271:LYS:CE	2.17	0.74
1:I:75:ASP:OD2	1:I:77:SER:HB3	1.88	0.74
1:I:120:ALA:O	1:I:124:GLU:HG2	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:300:TYR:CZ	1:K:225:LEU:HD13	2.20	0.74
1:M:116:VAL:HG22	1:M:122:ALA:HB3	1.69	0.74
1:N:56:SER:HB2	1:N:70:GLU:HB3	1.69	0.74
1:N:116:VAL:HG22	1:N:122:ALA:HB3	1.69	0.74
1:N:258:LYS:CE	1:N:295:GLN:HG3	2.17	0.74
1:O:56:SER:HB2	1:O:70:GLU:HB3	1.69	0.74
1:B:11:THR:HB	1:B:22:ILE:CG1	2.17	0.74
1:B:56:SER:HB2	1:B:70:GLU:HB3	1.69	0.74
1:B:120:ALA:O	1:B:124:GLU:HG2	1.87	0.74
1:C:51:ASP:HA	1:C:74:GLU:OE2	1.88	0.74
1:C:72:GLY:HA3	1:D:168:ASN:HA	1.67	0.74
1:C:250:SER:HB3	1:C:253:VAL:CB	2.14	0.74
1:E:258:LYS:CE	1:E:295:GLN:HG3	2.17	0.74
1:H:198:GLU:CA	1:K:203:GLU:HB2	2.18	0.74
1:I:51:ASP:HA	1:I:74:GLU:OE2	1.87	0.74
1:J:284:PHE:CZ	1:J:296:ILE:HG12	2.21	0.74
1:K:27:LYS:NZ	1:K:35:ARG:HH21	1.85	0.74
1:L:116:VAL:HG23	1:L:121:LYS:HG3	1.69	0.74
1:M:120:ALA:O	1:M:124:GLU:HG2	1.87	0.74
1:B:47:ASP:C	1:C:320:LYS:C	2.44	0.74
1:B:250:SER:HB3	1:B:253:VAL:CB	2.14	0.74
1:D:11:THR:HB	1:D:22:ILE:HG12	1.70	0.74
1:D:116:VAL:HG23	1:D:121:LYS:HG3	1.69	0.74
1:F:11:THR:HB	1:F:22:ILE:CG1	2.17	0.74
1:G:164:LEU:HD13	1:G:313:THR:HA	1.68	0.74
1:I:33:ILE:O	1:I:35:ARG:HB2	1.88	0.74
1:I:58:LYS:HB3	1:I:65:GLU:OE2	1.88	0.74
1:J:275:LYS:O	1:K:218:THR:CB	2.29	0.74
1:K:33:ILE:O	1:K:35:ARG:HB2	1.88	0.74
1:K:131:LYS:HD2	1:K:149:ILE:HD12	1.70	0.74
1:L:11:THR:HB	1:L:22:ILE:CG1	2.17	0.74
1:L:33:ILE:O	1:L:35:ARG:HB2	1.88	0.74
1:L:131:LYS:HD2	1:L:149:ILE:HD12	1.70	0.74
1:M:11:THR:HB	1:M:22:ILE:CG1	2.17	0.74
1:M:56:SER:HB2	1:M:70:GLU:HB3	1.69	0.74
1:N:27:LYS:NZ	1:N:35:ARG:HH21	1.85	0.74
1:O:116:VAL:HG22	1:O:122:ALA:HB3	1.69	0.74
1:P:56:SER:HB2	1:P:70:GLU:HB3	1.69	0.74
1:P:116:VAL:HG22	1:P:122:ALA:HB3	1.69	0.74
1:A:22:ILE:HB	1:A:27:LYS:HE2	1.70	0.74
1:A:27:LYS:NZ	1:A:35:ARG:HH21	1.85	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:50:ILE:HG23	1:B:320:LYS:HG2	1.68	0.74
1:B:230:GLN:CB	1:G:306:ILE:HG13	2.18	0.74
1:B:245:GLU:HB2	1:F:75:ASP:HA	1.65	0.74
1:C:11:THR:HB	1:C:22:ILE:HG12	1.70	0.74
1:C:58:LYS:HB3	1:C:65:GLU:OE2	1.88	0.74
1:D:58:LYS:HB3	1:D:65:GLU:OE2	1.88	0.74
1:E:164:LEU:HD13	1:E:313:THR:HA	1.68	0.74
1:G:75:ASP:OD2	1:G:77:SER:HB3	1.88	0.74
1:H:11:THR:HB	1:H:22:ILE:CG1	2.17	0.74
1:I:258:LYS:CE	1:I:295:GLN:HG3	2.17	0.74
1:J:26:LYS:CB	1:J:97:VAL:HG13	2.13	0.74
1:J:33:ILE:O	1:J:35:ARG:HB2	1.88	0.74
1:J:52:ILE:HA	1:N:248:THR:HG22	1.69	0.74
1:J:58:LYS:HB3	1:J:65:GLU:OE2	1.88	0.74
1:J:166:GLN:HA	1:O:242:LYS:O	1.87	0.74
1:M:131:LYS:HD2	1:M:149:ILE:HD12	1.70	0.74
1:M:164:LEU:HD13	1:M:313:THR:HA	1.68	0.74
1:O:320:LYS:HG2	1:P:50:ILE:HG23	1.68	0.74
1:A:11:THR:HB	1:A:22:ILE:CG1	2.17	0.74
1:B:11:THR:HB	1:B:22:ILE:HG12	1.70	0.74
1:B:72:GLY:HA3	1:C:168:ASN:HA	1.68	0.74
1:D:258:LYS:HE3	1:D:295:GLN:HG3	1.70	0.74
1:F:33:ILE:O	1:F:35:ARG:HB2	1.88	0.74
1:F:75:ASP:OD2	1:F:77:SER:HB3	1.88	0.74
1:F:116:VAL:HG23	1:F:121:LYS:HG3	1.69	0.74
1:G:27:LYS:NZ	1:G:35:ARG:HH21	1.85	0.74
1:G:51:ASP:HA	1:G:74:GLU:OE2	1.88	0.74
1:I:12:LEU:CB	1:I:110:LEU:HD12	2.17	0.74
1:K:58:LYS:HB3	1:K:65:GLU:OE2	1.88	0.74
1:K:166:GLN:HA	1:P:242:LYS:O	1.87	0.74
1:L:231:ALA:CB	1:P:308:ASN:CG	2.55	0.74
1:M:27:LYS:NZ	1:M:35:ARG:HH21	1.85	0.74
1:N:12:LEU:CB	1:N:110:LEU:HD12	2.17	0.74
1:O:131:LYS:HD2	1:O:149:ILE:HD12	1.70	0.74
1:P:33:ILE:O	1:P:35:ARG:HB2	1.88	0.74
1:P:131:LYS:HD2	1:P:149:ILE:HD12	1.70	0.74
1:A:72:GLY:HA3	1:B:168:ASN:HA	1.67	0.74
1:A:250:SER:HB3	1:A:253:VAL:CB	2.14	0.74
1:B:58:LYS:HB3	1:B:65:GLU:OE2	1.88	0.74
1:C:56:SER:HB2	1:C:70:GLU:HB3	1.69	0.74
1:C:116:VAL:HG23	1:C:121:LYS:HG3	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:120:ALA:O	1:C:124:GLU:HG2	1.87	0.74
1:F:27:LYS:NZ	1:F:35:ARG:HH21	1.85	0.74
1:F:120:ALA:O	1:F:124:GLU:HG2	1.87	0.74
1:F:271:LYS:C	1:I:202:GLU:OE2	2.26	0.74
1:J:27:LYS:NZ	1:J:35:ARG:HH21	1.85	0.74
1:K:11:THR:HB	1:K:22:ILE:CG1	2.17	0.74
1:K:116:VAL:HG23	1:K:121:LYS:HG3	1.69	0.74
1:L:284:PHE:CZ	1:L:296:ILE:HG12	2.22	0.74
1:N:131:LYS:HD2	1:N:149:ILE:HD12	1.70	0.74
1:P:84:LEU:HG	1:P:88:LEU:HD11	1.70	0.74
1:P:120:ALA:O	1:P:124:GLU:HG2	1.87	0.74
1:P:219:ASP:HA	1:P:224:ASN:HB2	0.86	0.74
1:A:11:THR:HB	1:A:22:ILE:HG12	1.70	0.73
1:A:116:VAL:HG23	1:A:121:LYS:HG3	1.69	0.73
1:B:22:ILE:HB	1:B:27:LYS:HE2	1.70	0.73
1:C:164:LEU:HD13	1:C:313:THR:HA	1.68	0.73
1:F:11:THR:HB	1:F:22:ILE:HG12	1.70	0.73
1:F:51:ASP:HA	1:F:74:GLU:OE2	1.88	0.73
1:G:11:THR:HB	1:G:22:ILE:HG12	1.70	0.73
1:G:33:ILE:O	1:G:35:ARG:HB2	1.88	0.73
1:H:27:LYS:NZ	1:H:35:ARG:HH21	1.85	0.73
1:H:33:ILE:O	1:H:35:ARG:HB2	1.88	0.73
1:I:73:VAL:HB	1:M:240:MET:HE2	1.70	0.73
1:J:75:ASP:OD2	1:J:77:SER:HB3	1.88	0.73
1:K:308:ASN:ND2	1:P:230:GLN:C	2.41	0.73
1:L:58:LYS:HB3	1:L:65:GLU:OE2	1.88	0.73
1:L:120:ALA:O	1:L:124:GLU:HG2	1.87	0.73
1:O:11:THR:HB	1:O:22:ILE:CG1	2.17	0.73
1:A:47:ASP:HB3	1:B:325:LYS:N	2.03	0.73
1:A:58:LYS:HB3	1:A:65:GLU:OE2	1.88	0.73
1:A:75:ASP:OD2	1:A:77:SER:HB3	1.88	0.73
1:B:49:TYR:CG	1:C:320:LYS:CD	2.55	0.73
1:C:258:LYS:HE3	1:C:295:GLN:HG3	1.70	0.73
1:D:22:ILE:HB	1:D:27:LYS:HE2	1.70	0.73
1:D:120:ALA:O	1:D:124:GLU:HG2	1.87	0.73
1:D:164:LEU:HD13	1:D:313:THR:HA	1.68	0.73
1:E:51:ASP:HA	1:E:74:GLU:OE2	1.88	0.73
1:F:58:LYS:HB3	1:F:65:GLU:OE2	1.88	0.73
1:G:225:LEU:HD13	1:H:300:TYR:CZ	2.20	0.73
1:L:75:ASP:OD2	1:L:77:SER:HB3	1.88	0.73
1:M:325:LYS:N	1:N:47:ASP:HB3	2.03	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:320:LYS:HG2	1:O:50:ILE:HG23	1.68	0.73
1:O:33:ILE:O	1:O:35:ARG:HB2	1.88	0.73
1:A:51:ASP:HA	1:A:74:GLU:OE2	1.88	0.73
1:B:116:VAL:HG23	1:B:121:LYS:HG3	1.69	0.73
1:B:246:ILE:HD11	1:G:320:LYS:O	1.71	0.73
1:C:27:LYS:NZ	1:C:35:ARG:HH21	1.85	0.73
1:D:33:ILE:O	1:D:35:ARG:HB2	1.88	0.73
1:G:58:LYS:HB3	1:G:65:GLU:OE2	1.88	0.73
1:I:11:THR:HB	1:I:22:ILE:HG12	1.70	0.73
1:J:308:ASN:HD22	1:O:232:GLU:H	0.75	0.73
1:K:12:LEU:CB	1:K:110:LEU:HD12	2.17	0.73
1:K:75:ASP:OD2	1:K:77:SER:HB3	1.88	0.73
1:K:120:ALA:O	1:K:124:GLU:HG2	1.87	0.73
1:N:51:ASP:HA	1:N:74:GLU:OE2	1.88	0.73
1:N:84:LEU:HG	1:N:88:LEU:HD11	1.70	0.73
1:N:120:ALA:O	1:N:124:GLU:HG2	1.87	0.73
1:O:158:GLY:O	1:O:161:VAL:HG22	1.89	0.73
1:B:27:LYS:NZ	1:B:35:ARG:HH21	1.85	0.73
1:B:75:ASP:OD2	1:B:77:SER:HB3	1.88	0.73
1:C:11:THR:HB	1:C:22:ILE:CG1	2.17	0.73
1:C:49:TYR:CG	1:D:320:LYS:CD	2.55	0.73
1:C:246:ILE:CG1	1:H:320:LYS:HA	2.17	0.73
1:C:246:ILE:HD11	1:H:320:LYS:C	2.08	0.73
1:E:11:THR:HB	1:E:22:ILE:HG12	1.70	0.73
1:E:33:ILE:O	1:E:35:ARG:HB2	1.88	0.73
1:E:84:LEU:HG	1:E:88:LEU:HD11	1.70	0.73
1:H:75:ASP:OD2	1:H:77:SER:HB3	1.88	0.73
1:I:75:ASP:N	1:M:245:GLU:CG	2.51	0.73
1:J:11:THR:HB	1:J:22:ILE:CG1	2.17	0.73
1:J:120:ALA:O	1:J:124:GLU:HG2	1.87	0.73
1:J:131:LYS:HD2	1:J:149:ILE:HD12	1.70	0.73
1:K:308:ASN:HB3	1:P:228:ASN:C	2.09	0.73
1:M:84:LEU:HG	1:M:88:LEU:HD11	1.70	0.73
1:O:84:LEU:HG	1:O:88:LEU:HD11	1.70	0.73
1:P:22:ILE:HB	1:P:27:LYS:HE2	1.70	0.73
1:P:51:ASP:HA	1:P:74:GLU:OE2	1.88	0.73
1:P:75:ASP:OD2	1:P:77:SER:HB3	1.88	0.73
1:C:22:ILE:HB	1:C:27:LYS:HE2	1.70	0.73
1:E:11:THR:HB	1:E:22:ILE:CG1	2.17	0.73
1:E:75:ASP:OD2	1:E:77:SER:HB3	1.88	0.73
1:E:120:ALA:O	1:E:124:GLU:HG2	1.87	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:131:LYS:HD2	1:E:149:ILE:HD12	1.70	0.73
1:H:203:GLU:CB	1:K:197:SER:C	2.53	0.73
1:M:11:THR:HB	1:M:22:ILE:HG12	1.70	0.73
1:N:11:THR:HB	1:N:22:ILE:HG12	1.70	0.73
1:N:158:GLY:O	1:N:161:VAL:HG22	1.89	0.73
1:O:11:THR:HB	1:O:22:ILE:HG12	1.70	0.73
1:O:120:ALA:O	1:O:124:GLU:HG2	1.87	0.73
1:O:258:LYS:HE3	1:O:295:GLN:HG3	1.70	0.73
1:P:158:GLY:O	1:P:161:VAL:HG22	1.89	0.73
1:A:27:LYS:HZ3	1:A:35:ARG:HH21	1.37	0.73
1:A:33:ILE:O	1:A:35:ARG:HB2	1.88	0.73
1:C:33:ILE:O	1:C:35:ARG:HB2	1.88	0.73
1:C:75:ASP:OD2	1:C:77:SER:HB3	1.88	0.73
1:D:56:SER:HB2	1:D:70:GLU:HB3	1.69	0.73
1:D:84:LEU:HG	1:D:88:LEU:HD11	1.70	0.73
1:E:22:ILE:HB	1:E:27:LYS:HE2	1.70	0.73
1:E:258:LYS:HE3	1:E:295:GLN:HG3	1.70	0.73
1:G:84:LEU:HG	1:G:88:LEU:HD11	1.70	0.73
1:G:158:GLY:O	1:G:161:VAL:HG22	1.89	0.73
1:I:116:VAL:HG23	1:I:121:LYS:HG3	1.69	0.73
1:J:51:ASP:HA	1:J:74:GLU:OE2	1.88	0.73
1:M:75:ASP:OD2	1:M:77:SER:HB3	1.88	0.73
1:B:158:GLY:O	1:B:161:VAL:HG22	1.89	0.73
1:C:84:LEU:HG	1:C:88:LEU:HD11	1.70	0.73
1:C:158:GLY:O	1:C:161:VAL:HG22	1.89	0.73
1:D:158:GLY:O	1:D:161:VAL:HG22	1.89	0.73
1:F:22:ILE:HB	1:F:27:LYS:HE2	1.70	0.73
1:F:84:LEU:HG	1:F:88:LEU:HD11	1.70	0.73
1:F:131:LYS:HD2	1:F:149:ILE:HD12	1.70	0.73
1:H:84:LEU:HG	1:H:88:LEU:HD11	1.70	0.73
1:H:289:THR:HG21	1:H:306:ILE:CD1	2.19	0.73
1:I:27:LYS:NZ	1:I:35:ARG:HH21	1.85	0.73
1:I:258:LYS:HE3	1:I:295:GLN:HG3	1.70	0.73
1:L:51:ASP:HA	1:L:74:GLU:OE2	1.87	0.73
1:L:258:LYS:HE3	1:L:295:GLN:HG3	1.70	0.73
1:M:33:ILE:O	1:M:35:ARG:HB2	1.88	0.73
1:M:299:THR:CA	1:N:227:THR:HG21	2.16	0.73
1:M:320:LYS:C	1:N:47:ASP:C	2.44	0.73
1:O:219:ASP:HA	1:O:224:ASN:HB2	0.86	0.73
1:P:258:LYS:HE3	1:P:295:GLN:HG3	1.71	0.73
1:A:227:THR:HG21	1:B:299:THR:CA	2.16	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:33:ILE:O	1:B:35:ARG:HB2	1.88	0.73
1:D:75:ASP:OD2	1:D:77:SER:HB3	1.88	0.73
1:F:258:LYS:HE3	1:F:295:GLN:HG3	1.70	0.73
1:I:158:GLY:O	1:I:161:VAL:HG22	1.89	0.73
1:J:64:LYS:HG2	1:J:66:TYR:CZ	2.24	0.73
1:J:168:ASN:CG	1:K:71:GLN:HE22	1.70	0.73
1:J:258:LYS:HE3	1:J:295:GLN:HG3	1.70	0.73
1:K:64:LYS:HG2	1:K:66:TYR:CZ	2.24	0.73
1:L:184:MET:CG	1:L:202:GLU:HB3	2.19	0.73
1:M:158:GLY:O	1:M:161:VAL:HG22	1.89	0.73
1:N:33:ILE:O	1:N:35:ARG:HB2	1.88	0.73
1:O:320:LYS:C	1:P:47:ASP:C	2.44	0.73
1:P:11:THR:HB	1:P:22:ILE:HG12	1.70	0.73
1:A:158:GLY:O	1:A:161:VAL:HG22	1.89	0.73
1:A:289:THR:HG21	1:A:306:ILE:CD1	2.19	0.73
1:B:51:ASP:HA	1:B:74:GLU:OE2	1.88	0.73
1:C:50:ILE:HG12	1:D:320:LYS:HE3	1.54	0.73
1:C:246:ILE:HB	1:H:320:LYS:HG2	1.69	0.73
1:F:184:MET:CG	1:F:202:GLU:HB3	2.19	0.73
1:G:64:LYS:HG2	1:G:66:TYR:CZ	2.24	0.73
1:G:289:THR:HG21	1:G:306:ILE:CD1	2.19	0.73
1:I:11:THR:HB	1:I:22:ILE:CG1	2.17	0.73
1:J:74:GLU:HA	1:N:245:GLU:O	1.88	0.73
1:L:289:THR:HG21	1:L:306:ILE:CD1	2.19	0.73
1:O:164:LEU:HD13	1:O:313:THR:HA	1.68	0.73
1:B:289:THR:HG21	1:B:306:ILE:CD1	2.19	0.73
1:D:27:LYS:HZ3	1:D:35:ARG:HH21	1.36	0.73
1:D:64:LYS:HG2	1:D:66:TYR:CZ	2.24	0.73
1:E:58:LYS:HB3	1:E:65:GLU:OE2	1.88	0.73
1:F:197:SER:C	1:I:203:GLU:CB	2.52	0.73
1:F:289:THR:HG21	1:F:306:ILE:CD1	2.19	0.73
1:G:11:THR:HB	1:G:22:ILE:CG1	2.17	0.73
1:G:22:ILE:HB	1:G:27:LYS:HE2	1.70	0.73
1:H:58:LYS:HB3	1:H:65:GLU:OE2	1.88	0.73
1:H:203:GLU:CB	1:K:198:GLU:HA	2.15	0.73
1:I:276:LEU:O	1:J:225:LEU:HA	1.89	0.73
1:J:11:THR:HB	1:J:22:ILE:HG12	1.70	0.73
1:J:289:THR:HG21	1:J:306:ILE:CD1	2.19	0.73
1:K:289:THR:HG21	1:K:306:ILE:CD1	2.19	0.73
1:O:325:LYS:N	1:P:47:ASP:HB3	2.04	0.73
1:A:212:ARG:HD2	1:A:257:VAL:HG23	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:64:LYS:HG2	1:B:66:TYR:CZ	2.24	0.72
1:C:64:LYS:HG2	1:C:66:TYR:CZ	2.24	0.72
1:C:240:MET:CE	1:G:73:VAL:HG23	2.09	0.72
1:C:289:THR:HG21	1:C:306:ILE:CD1	2.19	0.72
1:E:64:LYS:HG2	1:E:66:TYR:CZ	2.24	0.72
1:F:158:GLY:O	1:F:161:VAL:HG22	1.89	0.72
1:G:225:LEU:CB	1:H:300:TYR:CD2	2.72	0.72
1:H:158:GLY:O	1:H:161:VAL:HG22	1.89	0.72
1:H:250:SER:HB3	1:H:253:VAL:CB	2.14	0.72
1:H:258:LYS:HE3	1:H:295:GLN:HG3	1.70	0.72
1:I:289:THR:HG21	1:I:306:ILE:CD1	2.19	0.72
1:J:52:ILE:HG13	1:N:247:ASP:O	1.87	0.72
1:M:116:VAL:HG23	1:M:121:LYS:HG3	1.69	0.72
1:M:184:MET:CG	1:M:202:GLU:HB3	2.19	0.72
1:N:75:ASP:OD2	1:N:77:SER:HB3	1.88	0.72
1:N:320:LYS:CD	1:O:49:TYR:CG	2.55	0.72
1:N:325:LYS:N	1:O:47:ASP:HB3	2.04	0.72
1:P:58:LYS:HB3	1:P:65:GLU:OE2	1.88	0.72
1:P:116:VAL:HG23	1:P:121:LYS:HG3	1.69	0.72
1:A:184:MET:CG	1:A:202:GLU:HB3	2.19	0.72
1:A:241:LYS:NZ	1:F:305:ILE:CG2	2.51	0.72
1:B:212:ARG:HD2	1:B:257:VAL:HG23	1.71	0.72
1:B:258:LYS:HE3	1:B:295:GLN:HG3	1.70	0.72
1:E:289:THR:HG21	1:E:306:ILE:CD1	2.19	0.72
1:F:225:LEU:HA	1:G:276:LEU:O	1.89	0.72
1:F:226:ILE:H	1:G:303:ASN:CB	1.97	0.72
1:H:22:ILE:HB	1:H:27:LYS:HE2	1.70	0.72
1:I:22:ILE:HB	1:I:27:LYS:HE2	1.70	0.72
1:I:184:MET:CG	1:I:202:GLU:HB3	2.19	0.72
1:J:116:VAL:HG23	1:J:121:LYS:HG3	1.69	0.72
1:J:184:MET:CG	1:J:202:GLU:HB3	2.19	0.72
1:L:52:ILE:HD13	1:P:248:THR:HG23	1.70	0.72
1:L:64:LYS:HG2	1:L:66:TYR:CZ	2.24	0.72
1:M:64:LYS:HG2	1:M:66:TYR:CZ	2.24	0.72
1:N:58:LYS:HB3	1:N:65:GLU:OE2	1.88	0.72
1:N:116:VAL:HG23	1:N:121:LYS:HG3	1.69	0.72
1:N:164:LEU:HD13	1:N:313:THR:HA	1.68	0.72
1:N:184:MET:CG	1:N:202:GLU:HB3	2.19	0.72
1:O:64:LYS:HG2	1:O:66:TYR:CZ	2.24	0.72
1:O:167:GLU:C	1:P:72:GLY:O	2.28	0.72
1:A:64:LYS:HG2	1:A:66:TYR:CZ	2.24	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:117:LEU:HD23	1:B:117:LEU:O	1.90	0.72
1:C:47:ASP:HB3	1:D:325:LYS:N	2.04	0.72
1:C:212:ARG:HD2	1:C:257:VAL:HG23	1.72	0.72
1:D:212:ARG:HD2	1:D:257:VAL:HG23	1.71	0.72
1:D:289:THR:HG21	1:D:306:ILE:CD1	2.19	0.72
1:G:258:LYS:HE3	1:G:295:GLN:HG3	1.70	0.72
1:H:219:ASP:HA	1:H:224:ASN:HB2	0.86	0.72
1:J:22:ILE:HB	1:J:27:LYS:HE2	1.70	0.72
1:J:84:LEU:HG	1:J:88:LEU:HD11	1.70	0.72
1:J:117:LEU:O	1:J:117:LEU:HD23	1.90	0.72
1:K:84:LEU:HG	1:K:88:LEU:HD11	1.70	0.72
1:M:58:LYS:HB3	1:M:65:GLU:OE2	1.88	0.72
1:N:64:LYS:HG2	1:N:66:TYR:CZ	2.24	0.72
1:N:117:LEU:O	1:N:117:LEU:HD23	1.90	0.72
1:N:258:LYS:HE3	1:N:295:GLN:HG3	1.70	0.72
1:O:117:LEU:O	1:O:117:LEU:HD23	1.90	0.72
1:P:64:LYS:HG2	1:P:66:TYR:CZ	2.24	0.72
1:B:47:ASP:HB3	1:C:325:LYS:N	2.03	0.72
1:B:84:LEU:HG	1:B:88:LEU:HD11	1.70	0.72
1:C:117:LEU:HD23	1:C:117:LEU:O	1.90	0.72
1:E:116:VAL:HG23	1:E:121:LYS:HG3	1.69	0.72
1:E:117:LEU:HD23	1:E:117:LEU:O	1.90	0.72
1:E:212:ARG:HD2	1:E:257:VAL:HG23	1.72	0.72
1:E:225:LEU:CB	1:F:300:TYR:CD2	2.72	0.72
1:G:117:LEU:O	1:G:117:LEU:HD23	1.89	0.72
1:G:184:MET:CG	1:G:202:GLU:HB3	2.19	0.72
1:G:202:GLU:CG	1:J:271:LYS:HG2	2.20	0.72
1:G:272:ARG:NH1	1:J:201:ILE:HG23	2.05	0.72
1:H:51:ASP:HA	1:H:74:GLU:OE2	1.88	0.72
1:H:204:HIS:HD2	1:K:274:PHE:HE1	1.19	0.72
1:I:84:LEU:HG	1:I:88:LEU:HD11	1.70	0.72
1:J:75:ASP:N	1:N:245:GLU:CG	2.50	0.72
1:K:117:LEU:HD23	1:K:117:LEU:O	1.90	0.72
1:K:258:LYS:HE3	1:K:295:GLN:HG3	1.70	0.72
1:K:308:ASN:ND2	1:P:231:ALA:CA	2.52	0.72
1:L:158:GLY:O	1:L:161:VAL:HG22	1.89	0.72
1:M:289:THR:HG21	1:M:306:ILE:CD1	2.19	0.72
1:N:167:GLU:C	1:O:72:GLY:O	2.28	0.72
1:N:289:THR:HG21	1:N:306:ILE:CD1	2.19	0.72
1:N:324:ALA:HB1	1:O:46:GLU:CA	1.92	0.72
1:O:58:LYS:HB3	1:O:65:GLU:OE2	1.88	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:75:ASP:OD2	1:O:77:SER:HB3	1.88	0.72
1:O:116:VAL:HG23	1:O:121:LYS:HG3	1.69	0.72
1:O:184:MET:CG	1:O:202:GLU:HB3	2.19	0.72
1:O:289:THR:HG21	1:O:306:ILE:CD1	2.19	0.72
1:P:117:LEU:HD23	1:P:117:LEU:O	1.90	0.72
1:A:117:LEU:O	1:A:117:LEU:HD23	1.90	0.72
1:B:184:MET:CG	1:B:202:GLU:HB3	2.19	0.72
1:C:184:MET:CG	1:C:202:GLU:HB3	2.19	0.72
1:E:71:GLN:HE22	1:F:168:ASN:CG	1.70	0.72
1:E:218:THR:CB	1:F:275:LYS:O	2.29	0.72
1:F:117:LEU:O	1:F:117:LEU:HD23	1.90	0.72
1:H:184:MET:CG	1:H:202:GLU:HB3	2.19	0.72
1:I:64:LYS:HG2	1:I:66:TYR:CZ	2.24	0.72
1:I:131:LYS:HD2	1:I:149:ILE:HD12	1.70	0.72
1:J:59:ILE:HD12	1:J:95:THR:HG21	1.72	0.72
1:K:184:MET:CG	1:K:202:GLU:HB3	2.19	0.72
1:K:231:ALA:HB2	1:O:308:ASN:CG	2.05	0.72
1:L:52:ILE:HD11	1:P:247:ASP:CA	1.89	0.72
1:L:59:ILE:HD12	1:L:95:THR:HG21	1.72	0.72
1:L:84:LEU:HG	1:L:88:LEU:HD11	1.70	0.72
1:M:22:ILE:HB	1:M:27:LYS:HE2	1.70	0.72
1:M:320:LYS:HE2	1:N:50:ILE:CB	2.13	0.72
1:B:248:THR:HG23	1:F:52:ILE:HD13	1.70	0.72
1:D:117:LEU:O	1:D:117:LEU:HD23	1.90	0.72
1:D:184:MET:CG	1:D:202:GLU:HB3	2.19	0.72
1:D:248:THR:HG23	1:H:52:ILE:CD1	2.19	0.72
1:E:184:MET:CG	1:E:202:GLU:HB3	2.19	0.72
1:F:272:ARG:CG	1:I:203:GLU:N	2.18	0.72
1:G:225:LEU:HA	1:H:276:LEU:O	1.89	0.72
1:G:250:SER:HB3	1:G:253:VAL:CB	2.14	0.72
1:H:11:THR:HB	1:H:22:ILE:HG12	1.70	0.72
1:I:241:LYS:O	1:M:308:ASN:ND2	2.21	0.72
1:J:158:GLY:O	1:J:161:VAL:HG22	1.89	0.72
1:K:275:LYS:HZ3	1:L:219:ASP:CG	1.87	0.72
1:L:11:THR:HB	1:L:22:ILE:HG12	1.70	0.72
1:L:117:LEU:O	1:L:117:LEU:HD23	1.89	0.72
1:N:219:ASP:HA	1:N:224:ASN:HB2	0.86	0.72
1:P:184:MET:CG	1:P:202:GLU:HB3	2.19	0.72
1:P:289:THR:HG21	1:P:306:ILE:CD1	2.19	0.72
1:A:84:LEU:HG	1:A:88:LEU:HD11	1.70	0.72
1:A:258:LYS:HE3	1:A:295:GLN:HG3	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:59:ILE:HD12	1:D:95:THR:HG21	1.71	0.72
1:E:225:LEU:HA	1:F:276:LEU:O	1.89	0.72
1:F:59:ILE:HD12	1:F:95:THR:HG21	1.72	0.72
1:F:212:ARG:HD2	1:F:257:VAL:HG23	1.72	0.72
1:G:212:ARG:HD2	1:G:257:VAL:HG23	1.72	0.72
1:H:222:ASN:CG	1:H:237:ASN:HB2	2.10	0.72
1:I:307:THR:C	1:N:230:GLN:HB2	2.10	0.72
1:J:33:ILE:HB	1:J:312:TRP:NE1	2.05	0.72
1:M:117:LEU:HD23	1:M:117:LEU:O	1.90	0.72
1:O:51:ASP:HA	1:O:74:GLU:OE2	1.88	0.72
1:C:246:ILE:HD13	1:G:50:ILE:HG23	0.73	0.72
1:F:64:LYS:HG2	1:F:66:TYR:CZ	2.24	0.72
1:F:175:ALA:HB3	1:F:282:LEU:CD2	2.20	0.72
1:F:267:LYS:CD	1:I:267:LYS:HD3	2.17	0.72
1:G:201:ILE:HG23	1:J:272:ARG:NH1	2.05	0.72
1:H:117:LEU:HD23	1:H:117:LEU:O	1.90	0.72
1:H:271:LYS:CE	1:K:268:LEU:HD22	2.20	0.72
1:I:117:LEU:O	1:I:117:LEU:HD23	1.90	0.72
1:I:303:ASN:CB	1:J:226:ILE:H	1.97	0.72
1:J:166:GLN:O	1:O:241:LYS:CA	2.36	0.72
1:J:276:LEU:O	1:K:225:LEU:HA	1.89	0.72
1:J:320:LYS:O	1:K:49:TYR:CD1	2.26	0.72
1:K:22:ILE:HB	1:K:27:LYS:HE2	1.70	0.72
1:N:320:LYS:HE2	1:O:50:ILE:CB	2.13	0.72
1:P:175:ALA:HB3	1:P:282:LEU:CD2	2.20	0.72
1:B:46:GLU:OE2	1:C:321:VAL:HG23	1.90	0.72
1:C:72:GLY:O	1:D:167:GLU:C	2.28	0.72
1:E:158:GLY:O	1:E:161:VAL:HG22	1.89	0.72
1:F:225:LEU:HD13	1:G:300:TYR:CZ	2.20	0.72
1:G:33:ILE:HB	1:G:312:TRP:NE1	2.05	0.72
1:G:222:ASN:CG	1:G:237:ASN:HB2	2.10	0.72
1:H:212:ARG:HD2	1:H:257:VAL:HG23	1.72	0.72
1:I:212:ARG:HD2	1:I:257:VAL:HG23	1.71	0.72
1:K:320:LYS:HA	1:P:246:ILE:CG1	2.19	0.72
1:N:175:ALA:HB3	1:N:282:LEU:CD2	2.20	0.72
1:O:175:ALA:HB3	1:O:282:LEU:CD2	2.20	0.72
1:B:72:GLY:O	1:C:167:GLU:C	2.28	0.72
1:B:230:GLN:HB2	1:G:306:ILE:HG13	1.71	0.72
1:C:227:THR:HG21	1:D:299:THR:CA	2.16	0.72
1:F:250:SER:HB3	1:F:253:VAL:CB	2.14	0.72
1:H:175:ALA:HB3	1:H:282:LEU:CD2	2.20	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:222:ASN:CG	1:I:237:ASN:HB2	2.10	0.72
1:J:49:TYR:CE2	1:N:245:GLU:C	2.61	0.72
1:L:74:GLU:O	1:P:245:GLU:O	2.07	0.72
1:N:321:VAL:HG23	1:O:46:GLU:OE2	1.90	0.72
1:P:222:ASN:CG	1:P:237:ASN:HB2	2.10	0.72
1:A:33:ILE:HB	1:A:312:TRP:NE1	2.05	0.71
1:A:45:LEU:HD21	1:A:51:ASP:HB3	1.72	0.71
1:B:45:LEU:HD21	1:B:51:ASP:HB3	1.72	0.71
1:E:32:ASP:O	1:E:34:LYS:HA	1.90	0.71
1:E:33:ILE:HB	1:E:312:TRP:NE1	2.05	0.71
1:F:33:ILE:HB	1:F:312:TRP:NE1	2.05	0.71
1:G:274:PHE:HD1	1:J:204:HIS:CE1	2.07	0.71
1:J:308:ASN:ND2	1:O:231:ALA:CA	2.52	0.71
1:M:212:ARG:HD2	1:M:257:VAL:HG23	1.72	0.71
1:N:22:ILE:HB	1:N:27:LYS:HE2	1.70	0.71
1:N:212:ARG:HD2	1:N:257:VAL:HG23	1.71	0.71
1:P:168:ASN:O	1:P:172:LYS:HD2	1.90	0.71
1:B:33:ILE:HB	1:B:312:TRP:NE1	2.05	0.71
1:B:241:LYS:CB	1:G:166:GLN:CD	2.41	0.71
1:C:32:ASP:HB3	1:C:34:LYS:HD3	1.73	0.71
1:C:45:LEU:HD21	1:C:51:ASP:HB3	1.72	0.71
1:C:200:PHE:CD1	1:C:272:ARG:HD2	2.25	0.71
1:E:250:SER:HB3	1:E:253:VAL:CB	2.14	0.71
1:G:32:ASP:HB3	1:G:34:LYS:HD3	1.73	0.71
1:G:59:ILE:HD12	1:G:95:THR:HG21	1.72	0.71
1:G:226:ILE:HD12	1:H:303:ASN:O	1.90	0.71
1:G:271:LYS:HG2	1:J:202:GLU:CG	2.19	0.71
1:H:33:ILE:HB	1:H:312:TRP:NE1	2.05	0.71
1:H:64:LYS:HG2	1:H:66:TYR:CZ	2.24	0.71
1:J:33:ILE:CD1	1:J:312:TRP:HE1	2.03	0.71
1:J:212:ARG:HD2	1:J:257:VAL:HG23	1.72	0.71
1:K:59:ILE:HD12	1:K:95:THR:HG21	1.72	0.71
1:L:22:ILE:HB	1:L:27:LYS:HE2	1.70	0.71
1:L:112:CYS:SG	1:L:122:ALA:HB1	2.30	0.71
1:M:45:LEU:HD21	1:M:51:ASP:HB3	1.72	0.71
1:M:167:GLU:C	1:N:72:GLY:O	2.28	0.71
1:M:175:ALA:HB3	1:M:282:LEU:CD2	2.20	0.71
1:O:33:ILE:HB	1:O:312:TRP:NE1	2.05	0.71
1:O:320:LYS:CD	1:P:49:TYR:CG	2.55	0.71
1:A:221:ASN:ND2	1:B:277:ASP:OD1	2.23	0.71
1:C:46:GLU:OE2	1:D:321:VAL:HG23	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:221:ASN:ND2	1:D:277:ASP:OD1	2.23	0.71
1:D:32:ASP:HB3	1:D:34:LYS:HD3	1.72	0.71
1:G:218:THR:CB	1:H:275:LYS:O	2.29	0.71
1:K:276:LEU:O	1:L:225:LEU:HA	1.89	0.71
1:N:45:LEU:HD21	1:N:51:ASP:HB3	1.72	0.71
1:O:212:ARG:HD2	1:O:257:VAL:HG23	1.72	0.71
1:O:320:LYS:HE2	1:P:50:ILE:CB	2.13	0.71
1:P:32:ASP:HB3	1:P:34:LYS:HD3	1.73	0.71
1:A:72:GLY:O	1:B:167:GLU:C	2.28	0.71
1:B:175:ALA:HB3	1:B:282:LEU:CD2	2.20	0.71
1:C:27:LYS:HZ3	1:C:35:ARG:HH21	1.38	0.71
1:C:33:ILE:HB	1:C:312:TRP:NE1	2.05	0.71
1:C:175:ALA:HB3	1:C:282:LEU:CD2	2.20	0.71
1:D:33:ILE:HB	1:D:312:TRP:NE1	2.05	0.71
1:D:246:ILE:HA	1:H:52:ILE:HG12	1.72	0.71
1:F:32:ASP:HB3	1:F:34:LYS:HD3	1.73	0.71
1:G:201:ILE:O	1:J:200:PHE:HB3	1.91	0.71
1:J:175:ALA:HB3	1:J:282:LEU:CD2	2.20	0.71
1:K:112:CYS:SG	1:K:122:ALA:HB1	2.30	0.71
1:K:158:GLY:O	1:K:161:VAL:HG22	1.89	0.71
1:K:306:ILE:HG13	1:P:230:GLN:CB	2.18	0.71
1:L:33:ILE:HB	1:L:312:TRP:NE1	2.05	0.71
1:M:200:PHE:CD1	1:M:272:ARG:HD2	2.25	0.71
1:M:277:ASP:OD1	1:N:221:ASN:ND2	2.23	0.71
1:N:275:LYS:CE	1:O:219:ASP:CG	2.59	0.71
1:O:22:ILE:HB	1:O:27:LYS:HE2	1.70	0.71
1:O:275:LYS:CE	1:P:219:ASP:CG	2.59	0.71
1:P:33:ILE:CD1	1:P:312:TRP:HE1	2.03	0.71
1:P:212:ARG:HD2	1:P:257:VAL:HG23	1.71	0.71
1:A:50:ILE:HG23	1:B:320:LYS:CG	2.20	0.71
1:A:79:THR:HG21	1:B:192:CYS:CB	2.17	0.71
1:A:175:ALA:HB3	1:A:282:LEU:CD2	2.20	0.71
1:C:66:TYR:HE2	1:C:88:LEU:HD13	1.56	0.71
1:C:79:THR:HG21	1:D:192:CYS:CB	2.17	0.71
1:D:175:ALA:HB3	1:D:282:LEU:CD2	2.20	0.71
1:E:200:PHE:CD1	1:E:272:ARG:HD2	2.25	0.71
1:F:200:PHE:CD1	1:F:272:ARG:HD2	2.25	0.71
1:F:222:ASN:CG	1:F:237:ASN:HB2	2.10	0.71
1:G:66:TYR:HE2	1:G:88:LEU:HD13	1.56	0.71
1:I:32:ASP:HB3	1:I:34:LYS:HD3	1.73	0.71
1:I:112:CYS:SG	1:I:122:ALA:HB1	2.30	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:33:ILE:HB	1:K:312:TRP:NE1	2.05	0.71
1:K:164:LEU:C	1:P:243:GLY:N	2.43	0.71
1:K:212:ARG:HD2	1:K:257:VAL:HG23	1.72	0.71
1:M:258:LYS:HE3	1:M:295:GLN:HG3	1.71	0.71
1:N:200:PHE:CD1	1:N:272:ARG:HD2	2.25	0.71
1:N:222:ASN:CG	1:N:237:ASN:HB2	2.10	0.71
1:N:277:ASP:OD1	1:O:221:ASN:ND2	2.23	0.71
1:O:32:ASP:HB3	1:O:34:LYS:HD3	1.73	0.71
1:O:45:LEU:HD21	1:O:51:ASP:HB3	1.72	0.71
1:O:321:VAL:HG23	1:P:46:GLU:OE2	1.90	0.71
1:P:66:TYR:HE2	1:P:88:LEU:HD13	1.56	0.71
1:A:200:PHE:CD1	1:A:272:ARG:HD2	2.25	0.71
1:A:219:ASP:CG	1:B:275:LYS:CE	2.59	0.71
1:B:221:ASN:ND2	1:C:277:ASP:OD1	2.23	0.71
1:B:245:GLU:O	1:F:74:GLU:O	2.08	0.71
1:C:59:ILE:HD12	1:C:95:THR:HG21	1.72	0.71
1:C:246:ILE:CG1	1:G:50:ILE:O	2.38	0.71
1:F:204:HIS:HD2	1:I:274:PHE:CE1	1.79	0.71
1:F:224:ASN:HD22	1:G:275:LYS:NZ	1.76	0.71
1:H:32:ASP:HB3	1:H:34:LYS:HD3	1.73	0.71
1:I:200:PHE:CD1	1:I:272:ARG:HD2	2.25	0.71
1:J:300:TYR:CD2	1:K:225:LEU:CB	2.72	0.71
1:K:11:THR:HB	1:K:22:ILE:HG12	1.70	0.71
1:K:166:GLN:HB3	1:P:242:LYS:HB2	1.71	0.71
1:L:222:ASN:CG	1:L:237:ASN:HB2	2.10	0.71
1:M:66:TYR:HE2	1:M:88:LEU:HD13	1.56	0.71
1:M:219:ASP:HA	1:M:224:ASN:HB2	0.86	0.71
1:N:27:LYS:HZ3	1:N:35:ARG:HH21	1.39	0.71
1:A:66:TYR:HE2	1:A:88:LEU:HD13	1.56	0.71
1:B:50:ILE:HG23	1:C:320:LYS:CG	2.20	0.71
1:C:66:TYR:CE2	1:C:88:LEU:HD13	2.26	0.71
1:D:45:LEU:HD21	1:D:51:ASP:HB3	1.73	0.71
1:D:200:PHE:CD1	1:D:272:ARG:HD2	2.25	0.71
1:F:66:TYR:CZ	1:F:88:LEU:HD22	2.26	0.71
1:G:200:PHE:CD1	1:G:272:ARG:HD2	2.25	0.71
1:H:66:TYR:HE2	1:H:88:LEU:HD13	1.56	0.71
1:K:66:TYR:HE2	1:K:88:LEU:HD13	1.56	0.71
1:L:33:ILE:CD1	1:L:312:TRP:HE1	2.03	0.71
1:L:212:ARG:HD2	1:L:257:VAL:HG23	1.72	0.71
1:M:168:ASN:O	1:M:172:LYS:HD2	1.90	0.71
1:O:168:ASN:O	1:O:172:LYS:HD2	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:277:ASP:OD1	1:P:221:ASN:ND2	2.23	0.71
1:P:66:TYR:CZ	1:P:88:LEU:HD22	2.26	0.71
1:P:200:PHE:CD1	1:P:272:ARG:HD2	2.25	0.71
1:B:222:ASN:CG	1:B:237:ASN:HB2	2.10	0.71
1:C:112:CYS:SG	1:C:122:ALA:HB1	2.30	0.71
1:D:112:CYS:SG	1:D:122:ALA:HB1	2.30	0.71
1:G:32:ASP:O	1:G:34:LYS:HA	1.91	0.71
1:G:204:HIS:CE1	1:J:274:PHE:HD1	2.07	0.71
1:I:168:ASN:O	1:I:172:LYS:HD2	1.90	0.71
1:I:219:ASP:HA	1:I:224:ASN:HB2	0.86	0.71
1:I:303:ASN:O	1:J:226:ILE:HD12	1.90	0.71
1:I:320:LYS:O	1:J:49:TYR:CD1	2.26	0.71
1:J:168:ASN:O	1:J:172:LYS:HD2	1.90	0.71
1:K:175:ALA:HB3	1:K:282:LEU:CD2	2.20	0.71
1:M:222:ASN:CG	1:M:237:ASN:HB2	2.10	0.71
1:N:320:LYS:CE	1:O:50:ILE:CD1	2.64	0.71
1:P:33:ILE:HB	1:P:312:TRP:NE1	2.05	0.71
1:A:66:TYR:CZ	1:A:88:LEU:HD22	2.26	0.71
1:A:66:TYR:CE2	1:A:88:LEU:HD13	2.26	0.71
1:B:32:ASP:HB3	1:B:34:LYS:HD3	1.73	0.71
1:B:66:TYR:CE2	1:B:88:LEU:HD13	2.26	0.71
1:B:246:ILE:HD13	1:G:323:VAL:HG13	1.65	0.71
1:C:50:ILE:HG23	1:D:320:LYS:CG	2.20	0.71
1:D:66:TYR:CE2	1:D:88:LEU:HD13	2.26	0.71
1:F:32:ASP:O	1:F:34:LYS:HA	1.91	0.71
1:F:33:ILE:CD1	1:F:312:TRP:HE1	2.03	0.71
1:G:175:ALA:HB3	1:G:282:LEU:CD2	2.20	0.71
1:G:203:GLU:HG3	1:J:198:GLU:HG3	0.71	0.71
1:I:175:ALA:HB3	1:I:282:LEU:CD2	2.20	0.71
1:J:200:PHE:CD1	1:J:272:ARG:HD2	2.25	0.71
1:K:168:ASN:O	1:K:172:LYS:HD2	1.90	0.71
1:L:175:ALA:HB3	1:L:282:LEU:CD2	2.20	0.71
1:M:32:ASP:O	1:M:34:LYS:HA	1.90	0.71
1:M:33:ILE:HB	1:M:312:TRP:NE1	2.05	0.71
1:N:168:ASN:O	1:N:172:LYS:HD2	1.90	0.71
1:O:33:ILE:CD1	1:O:312:TRP:HE1	2.03	0.71
1:P:45:LEU:HD21	1:P:51:ASP:HB3	1.72	0.71
1:P:59:ILE:HD12	1:P:95:THR:HG21	1.72	0.71
1:P:66:TYR:CE2	1:P:88:LEU:HD13	2.26	0.71
1:A:32:ASP:O	1:A:34:LYS:HA	1.91	0.71
1:A:168:ASN:O	1:A:172:LYS:HD2	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:219:ASP:CG	1:C:275:LYS:CE	2.59	0.71
1:C:219:ASP:CG	1:D:275:LYS:CE	2.59	0.71
1:C:222:ASN:CG	1:C:237:ASN:HB2	2.10	0.71
1:D:66:TYR:CZ	1:D:88:LEU:HD22	2.26	0.71
1:D:66:TYR:HE2	1:D:88:LEU:HD13	1.56	0.71
1:F:203:GLU:HB3	1:I:198:GLU:HG2	1.73	0.71
1:H:66:TYR:CZ	1:H:88:LEU:HD22	2.26	0.71
1:J:32:ASP:O	1:J:34:LYS:HA	1.91	0.71
1:J:75:ASP:HA	1:N:245:GLU:HB2	1.71	0.71
1:K:222:ASN:CG	1:K:237:ASN:HB2	2.10	0.71
1:L:200:PHE:CD1	1:L:272:ARG:HD2	2.25	0.71
1:N:33:ILE:HB	1:N:312:TRP:NE1	2.05	0.71
1:A:50:ILE:CD1	1:B:320:LYS:CE	2.64	0.70
1:A:246:ILE:HD11	1:F:320:LYS:O	1.64	0.70
1:B:79:THR:HG21	1:C:192:CYS:CB	2.17	0.70
1:C:246:ILE:CD1	1:H:323:VAL:CG1	2.68	0.70
1:E:66:TYR:CZ	1:E:88:LEU:HD22	2.26	0.70
1:E:66:TYR:CE2	1:E:88:LEU:HD13	2.26	0.70
1:F:66:TYR:CE2	1:F:88:LEU:HD13	2.26	0.70
1:G:66:TYR:CE2	1:G:88:LEU:HD13	2.26	0.70
1:G:272:ARG:HB2	1:J:202:GLU:HA	1.71	0.70
1:H:32:ASP:O	1:H:34:LYS:HA	1.91	0.70
1:H:66:TYR:CE2	1:H:88:LEU:HD13	2.26	0.70
1:H:168:ASN:O	1:H:172:LYS:HD2	1.90	0.70
1:I:32:ASP:O	1:I:34:LYS:HA	1.91	0.70
1:K:33:ILE:CD1	1:K:312:TRP:HE1	2.03	0.70
1:M:320:LYS:CG	1:N:50:ILE:HG23	2.20	0.70
1:O:66:TYR:CZ	1:O:88:LEU:HD22	2.26	0.70
1:O:66:TYR:CE2	1:O:88:LEU:HD13	2.26	0.70
1:O:112:CYS:SG	1:O:122:ALA:HB1	2.30	0.70
1:A:112:CYS:SG	1:A:122:ALA:HB1	2.30	0.70
1:B:79:THR:OG1	1:C:192:CYS:N	2.24	0.70
1:E:32:ASP:HB3	1:E:34:LYS:HD3	1.73	0.70
1:E:112:CYS:SG	1:E:122:ALA:HB1	2.30	0.70
1:F:219:ASP:OD2	1:G:275:LYS:CE	1.95	0.70
1:F:226:ILE:HD12	1:G:303:ASN:O	1.90	0.70
1:G:66:TYR:CZ	1:G:88:LEU:HD22	2.26	0.70
1:G:200:PHE:HB3	1:J:201:ILE:O	1.91	0.70
1:H:112:CYS:SG	1:H:122:ALA:HB1	2.30	0.70
1:J:32:ASP:HB3	1:J:34:LYS:HD3	1.72	0.70
1:J:66:TYR:CZ	1:J:88:LEU:HD22	2.26	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:112:CYS:SG	1:J:122:ALA:HB1	2.30	0.70
1:L:66:TYR:HE2	1:L:88:LEU:HD13	1.56	0.70
1:L:168:ASN:O	1:L:172:LYS:HD2	1.90	0.70
1:L:179:PHE:CE1	1:L:261:PHE:CE2	2.79	0.70
1:M:66:TYR:CZ	1:M:88:LEU:HD22	2.26	0.70
1:M:275:LYS:CE	1:N:219:ASP:CG	2.59	0.70
1:N:66:TYR:CE2	1:N:88:LEU:HD13	2.26	0.70
1:N:66:TYR:HE2	1:N:88:LEU:HD13	1.56	0.70
1:N:112:CYS:SG	1:N:122:ALA:HB1	2.30	0.70
1:N:320:LYS:CG	1:O:50:ILE:HG23	2.20	0.70
1:O:59:ILE:HD12	1:O:95:THR:HG21	1.72	0.70
1:B:32:ASP:O	1:B:34:LYS:HA	1.90	0.70
1:B:200:PHE:CD1	1:B:272:ARG:HD2	2.25	0.70
1:C:179:PHE:CE1	1:C:261:PHE:CE2	2.79	0.70
1:D:168:ASN:O	1:D:172:LYS:HD2	1.90	0.70
1:D:222:ASN:CG	1:D:237:ASN:HB2	2.10	0.70
1:E:175:ALA:HB3	1:E:282:LEU:CD2	2.20	0.70
1:E:222:ASN:CG	1:E:237:ASN:HB2	2.10	0.70
1:F:265:ALA:HA	1:I:271:LYS:HZ2	1.54	0.70
1:F:268:LEU:HD22	1:I:271:LYS:CE	2.21	0.70
1:J:66:TYR:HE2	1:J:88:LEU:HD13	1.56	0.70
1:K:179:PHE:CE1	1:K:261:PHE:CE2	2.79	0.70
1:L:66:TYR:CZ	1:L:88:LEU:HD22	2.26	0.70
1:M:66:TYR:CE2	1:M:88:LEU:HD13	2.26	0.70
1:M:321:VAL:HG23	1:N:46:GLU:OE2	1.90	0.70
1:N:32:ASP:HB3	1:N:34:LYS:HD3	1.72	0.70
1:A:79:THR:OG1	1:B:192:CYS:N	2.24	0.70
1:B:112:CYS:SG	1:B:122:ALA:HB1	2.30	0.70
1:C:168:ASN:O	1:C:172:LYS:HD2	1.90	0.70
1:D:32:ASP:O	1:D:34:LYS:HA	1.90	0.70
1:D:33:ILE:CD1	1:D:312:TRP:HE1	2.03	0.70
1:G:271:LYS:NZ	1:J:268:LEU:HD22	2.06	0.70
1:H:200:PHE:CD1	1:H:272:ARG:HD2	2.25	0.70
1:I:59:ILE:HD12	1:I:95:THR:HG21	1.72	0.70
1:K:66:TYR:CE2	1:K:88:LEU:HD13	2.26	0.70
1:M:192:CYS:N	1:N:79:THR:OG1	2.24	0.70
1:O:32:ASP:O	1:O:34:LYS:HA	1.91	0.70
1:O:320:LYS:CG	1:P:50:ILE:HG23	2.20	0.70
1:A:7:GLU:HG3	1:A:326:TYR:CZ	2.27	0.70
1:A:33:ILE:CD1	1:A:312:TRP:HE1	2.03	0.70
1:A:245:GLU:O	1:E:74:GLU:C	2.30	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:245:GLU:OE1	1:E:75:ASP:CG	2.29	0.70
1:C:50:ILE:CD1	1:D:320:LYS:CE	2.64	0.70
1:C:52:ILE:CD1	1:H:245:GLU:OE2	2.39	0.70
1:C:241:LYS:NZ	1:H:305:ILE:HG22	2.06	0.70
1:C:247:ASP:O	1:G:52:ILE:CG1	2.39	0.70
1:E:226:ILE:HD12	1:F:303:ASN:O	1.90	0.70
1:F:66:TYR:HE2	1:F:88:LEU:HD13	1.56	0.70
1:F:112:CYS:SG	1:F:122:ALA:HB1	2.30	0.70
1:F:225:LEU:CB	1:G:300:TYR:CD2	2.72	0.70
1:F:267:LYS:HD3	1:I:267:LYS:CD	2.18	0.70
1:I:33:ILE:HB	1:I:312:TRP:NE1	2.05	0.70
1:I:33:ILE:CD1	1:I:312:TRP:HE1	2.03	0.70
1:J:66:TYR:CE2	1:J:88:LEU:HD13	2.26	0.70
1:L:66:TYR:CE2	1:L:88:LEU:HD13	2.26	0.70
1:P:112:CYS:SG	1:P:122:ALA:HB1	2.30	0.70
1:B:59:ILE:HD12	1:B:95:THR:HG21	1.71	0.70
1:C:79:THR:OG1	1:D:192:CYS:N	2.24	0.70
1:G:112:CYS:SG	1:G:122:ALA:HB1	2.30	0.70
1:H:33:ILE:CD1	1:H:312:TRP:HE1	2.03	0.70
1:H:45:LEU:HD21	1:H:51:ASP:HB3	1.72	0.70
1:H:59:ILE:HD12	1:H:95:THR:HG21	1.72	0.70
1:I:66:TYR:CE2	1:I:88:LEU:HD13	2.26	0.70
1:I:168:ASN:CG	1:J:71:GLN:HE22	1.70	0.70
1:I:307:THR:O	1:N:230:GLN:HB2	1.92	0.70
1:I:308:ASN:HD22	1:N:231:ALA:C	1.95	0.70
1:K:50:ILE:O	1:O:246:ILE:N	2.24	0.70
1:K:66:TYR:CZ	1:K:88:LEU:HD22	2.26	0.70
1:K:200:PHE:CD1	1:K:272:ARG:HD2	2.25	0.70
1:L:32:ASP:HB3	1:L:34:LYS:HD3	1.73	0.70
1:N:192:CYS:CB	1:O:79:THR:HG21	2.17	0.70
1:O:200:PHE:CD1	1:O:272:ARG:HD2	2.25	0.70
1:O:222:ASN:CG	1:O:237:ASN:HB2	2.10	0.70
1:A:46:GLU:OE2	1:B:321:VAL:HG23	1.90	0.70
1:A:179:PHE:CE1	1:A:261:PHE:CE2	2.79	0.70
1:A:230:GLN:CB	1:F:307:THR:O	2.31	0.70
1:A:230:GLN:HA	1:F:308:ASN:CG	2.11	0.70
1:B:66:TYR:CZ	1:B:88:LEU:HD22	2.26	0.70
1:B:168:ASN:O	1:B:172:LYS:HD2	1.90	0.70
1:B:179:PHE:CE1	1:B:261:PHE:CE2	2.79	0.70
1:C:241:LYS:HA	1:H:166:GLN:O	1.90	0.70
1:D:179:PHE:CE1	1:D:261:PHE:CE2	2.79	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:202:GLU:CD	1:I:271:LYS:HG2	2.11	0.70
1:G:7:GLU:HG3	1:G:326:TYR:CZ	2.27	0.70
1:G:33:ILE:CD1	1:G:312:TRP:HE1	2.03	0.70
1:G:201:ILE:CG2	1:J:272:ARG:NH1	2.53	0.70
1:I:27:LYS:HZ3	1:I:35:ARG:HH21	1.37	0.70
1:M:32:ASP:HB3	1:M:34:LYS:HD3	1.73	0.70
1:N:33:ILE:CD1	1:N:312:TRP:HE1	2.03	0.70
1:N:320:LYS:HD3	1:O:49:TYR:CD2	2.27	0.70
1:P:32:ASP:O	1:P:34:LYS:HA	1.91	0.70
1:A:47:ASP:C	1:B:320:LYS:C	2.44	0.70
1:A:222:ASN:CG	1:A:237:ASN:HB2	2.10	0.70
1:B:7:GLU:HG3	1:B:326:TYR:CZ	2.27	0.70
1:C:66:TYR:CZ	1:C:88:LEU:HD22	2.26	0.70
1:G:168:ASN:O	1:G:172:LYS:HD2	1.90	0.70
1:I:66:TYR:CZ	1:I:88:LEU:HD22	2.26	0.70
1:J:219:ASP:HA	1:J:224:ASN:HB2	0.86	0.70
1:J:222:ASN:CG	1:J:237:ASN:HB2	2.10	0.70
1:J:303:ASN:O	1:K:226:ILE:HD12	1.90	0.70
1:K:32:ASP:O	1:K:34:LYS:HA	1.91	0.70
1:N:59:ILE:HD12	1:N:95:THR:HG21	1.72	0.70
1:N:192:CYS:N	1:O:79:THR:OG1	2.24	0.70
1:A:49:TYR:CD2	1:B:320:LYS:HD3	2.27	0.70
1:C:232:GLU:HG3	1:H:308:ASN:HB2	1.72	0.70
1:C:248:THR:N	1:G:52:ILE:HD12	2.06	0.70
1:E:7:GLU:HG3	1:E:326:TYR:CZ	2.27	0.70
1:E:45:LEU:HD21	1:E:51:ASP:HB3	1.72	0.70
1:F:45:LEU:HD21	1:F:51:ASP:HB3	1.72	0.70
1:G:33:ILE:O	1:G:312:TRP:CZ2	2.45	0.70
1:G:45:LEU:HD21	1:G:51:ASP:HB3	1.72	0.70
1:H:202:GLU:OE2	1:K:271:LYS:C	2.29	0.70
1:I:74:GLU:C	1:M:245:GLU:CB	2.52	0.70
1:I:179:PHE:CE1	1:I:261:PHE:CE2	2.79	0.70
1:J:27:LYS:HZ3	1:J:35:ARG:HH21	1.38	0.70
1:J:307:THR:HA	1:O:231:ALA:HB2	1.73	0.70
1:K:309:ASN:OD1	1:P:229:GLU:N	2.24	0.70
1:M:179:PHE:CE1	1:M:261:PHE:CE2	2.79	0.70
1:N:32:ASP:O	1:N:34:LYS:HA	1.90	0.70
1:O:66:TYR:HE2	1:O:88:LEU:HD13	1.56	0.70
1:O:192:CYS:N	1:P:79:THR:OG1	2.24	0.70
1:O:320:LYS:HD3	1:P:49:TYR:CD2	2.27	0.70
1:P:7:GLU:HG3	1:P:326:TYR:CZ	2.27	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:59:ILE:HD12	1:A:95:THR:HG21	1.71	0.70
1:C:7:GLU:HG3	1:C:326:TYR:CZ	2.27	0.70
1:F:33:ILE:O	1:F:312:TRP:CZ2	2.45	0.70
1:G:179:PHE:CE1	1:G:261:PHE:CE2	2.79	0.70
1:G:268:LEU:HD22	1:J:271:LYS:NZ	2.07	0.70
1:G:272:ARG:NH1	1:J:201:ILE:CG2	2.53	0.70
1:H:271:LYS:HZ2	1:K:265:ALA:HA	1.53	0.70
1:I:7:GLU:HG3	1:I:326:TYR:CZ	2.27	0.70
1:I:33:ILE:O	1:I:312:TRP:CZ2	2.45	0.70
1:K:307:THR:HA	1:P:231:ALA:CB	2.22	0.70
1:M:112:CYS:SG	1:M:122:ALA:HB1	2.30	0.70
1:N:66:TYR:CZ	1:N:88:LEU:HD22	2.26	0.70
1:O:7:GLU:HG3	1:O:326:TYR:CZ	2.27	0.70
1:B:33:ILE:CD1	1:B:312:TRP:HE1	2.03	0.69
1:D:33:ILE:O	1:D:312:TRP:CZ2	2.45	0.69
1:E:33:ILE:CD1	1:E:312:TRP:HE1	2.03	0.69
1:E:59:ILE:HD12	1:E:95:THR:HG21	1.72	0.69
1:F:179:PHE:CE1	1:F:261:PHE:CE2	2.79	0.69
1:H:33:ILE:O	1:H:312:TRP:CZ2	2.45	0.69
1:J:179:PHE:CE1	1:J:261:PHE:CE2	2.79	0.69
1:N:7:GLU:HG3	1:N:326:TYR:CZ	2.27	0.69
1:O:207:LYS:O	1:O:211:ILE:HG23	1.92	0.69
1:H:179:PHE:CE1	1:H:261:PHE:CE2	2.79	0.69
1:H:183:ASN:ND2	1:K:197:SER:CB	2.44	0.69
1:J:33:ILE:O	1:J:312:TRP:CZ2	2.45	0.69
1:K:303:ASN:O	1:L:226:ILE:HD12	1.90	0.69
1:M:7:GLU:HG3	1:M:326:TYR:CZ	2.27	0.69
1:P:179:PHE:CE1	1:P:261:PHE:CE2	2.79	0.69
1:B:308:ASN:HD21	1:F:241:LYS:HB2	1.55	0.69
1:C:32:ASP:O	1:C:34:LYS:HA	1.91	0.69
1:E:168:ASN:O	1:E:172:LYS:HD2	1.90	0.69
1:F:71:GLN:HE22	1:G:168:ASN:CG	1.70	0.69
1:H:7:GLU:HG3	1:H:326:TYR:CZ	2.27	0.69
1:K:7:GLU:HG3	1:K:326:TYR:CZ	2.27	0.69
1:B:207:LYS:O	1:B:211:ILE:HG23	1.92	0.69
1:C:248:THR:HG23	1:G:52:ILE:CD1	2.23	0.69
1:E:179:PHE:CE1	1:E:261:PHE:CE2	2.79	0.69
1:E:226:ILE:H	1:F:303:ASN:CB	1.97	0.69
1:F:168:ASN:O	1:F:172:LYS:HD2	1.90	0.69
1:G:202:GLU:HA	1:J:272:ARG:HB2	1.72	0.69
1:H:310:SER:HA	1:H:313:THR:HG23	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:52:ILE:CG2	1:O:248:THR:HA	2.11	0.69
1:K:207:LYS:O	1:K:211:ILE:HG23	1.92	0.69
1:K:303:ASN:CB	1:L:226:ILE:H	1.97	0.69
1:M:33:ILE:CD1	1:M:312:TRP:HE1	2.03	0.69
1:M:59:ILE:HD12	1:M:95:THR:HG21	1.71	0.69
1:M:192:CYS:CB	1:N:79:THR:HG21	2.17	0.69
1:A:32:ASP:HB3	1:A:34:LYS:HD3	1.73	0.69
1:A:207:LYS:O	1:A:211:ILE:HG23	1.92	0.69
1:E:33:ILE:O	1:E:312:TRP:CZ2	2.45	0.69
1:G:198:GLU:HG3	1:J:203:GLU:HG3	0.70	0.69
1:I:66:TYR:HE2	1:I:88:LEU:HD13	1.56	0.69
1:J:74:GLU:C	1:N:245:GLU:CB	2.55	0.69
1:K:74:GLU:O	1:O:245:GLU:O	2.10	0.69
1:L:32:ASP:O	1:L:34:LYS:HA	1.90	0.69
1:M:33:ILE:O	1:M:312:TRP:CZ2	2.45	0.69
1:N:179:PHE:CE1	1:N:261:PHE:CE2	2.79	0.69
1:O:179:PHE:CE1	1:O:261:PHE:CE2	2.79	0.69
1:P:33:ILE:O	1:P:312:TRP:CZ2	2.45	0.69
1:C:33:ILE:O	1:C:312:TRP:CZ2	2.45	0.69
1:C:49:TYR:CD2	1:D:320:LYS:HD3	2.27	0.69
1:C:52:ILE:HD11	1:H:245:GLU:OE2	1.93	0.69
1:D:7:GLU:HG3	1:D:326:TYR:CZ	2.27	0.69
1:E:207:LYS:O	1:E:211:ILE:HG23	1.92	0.69
1:F:7:GLU:HG3	1:F:326:TYR:CZ	2.27	0.69
1:K:33:ILE:O	1:K:312:TRP:CZ2	2.45	0.69
1:K:219:ASP:HA	1:K:224:ASN:HB2	0.86	0.69
1:K:275:LYS:O	1:L:218:THR:CB	2.28	0.69
1:C:33:ILE:CD1	1:C:312:TRP:HE1	2.03	0.69
1:E:47:ASP:C	1:F:324:ALA:N	2.46	0.69
1:G:310:SER:HA	1:G:313:THR:HG23	1.75	0.69
1:H:198:GLU:HG2	1:K:203:GLU:HB3	1.74	0.69
1:I:45:LEU:HD21	1:I:51:ASP:HB3	1.73	0.69
1:I:245:GLU:OE2	1:N:52:ILE:HD13	1.93	0.69
1:K:166:GLN:C	1:P:241:LYS:HA	2.13	0.69
1:N:33:ILE:O	1:N:312:TRP:CZ2	2.45	0.69
1:A:33:ILE:O	1:A:312:TRP:CZ2	2.45	0.69
1:B:33:ILE:O	1:B:312:TRP:CZ2	2.45	0.69
1:B:66:TYR:HE2	1:B:88:LEU:HD13	1.56	0.69
1:D:274:PHE:HB2	1:D:278:GLN:NE2	2.08	0.69
1:E:224:ASN:HD22	1:F:275:LYS:NZ	1.76	0.69
1:F:197:SER:CB	1:I:183:ASN:ND2	2.41	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:207:LYS:O	1:F:211:ILE:HG23	1.92	0.69
1:F:272:ARG:CB	1:I:202:GLU:HG2	2.23	0.69
1:F:274:PHE:HB2	1:F:278:GLN:NE2	2.08	0.69
1:F:310:SER:HA	1:F:313:THR:HG23	1.75	0.69
1:G:47:ASP:C	1:H:324:ALA:N	2.46	0.69
1:G:272:ARG:HG3	1:J:202:GLU:CA	2.22	0.69
1:H:271:LYS:HG2	1:K:202:GLU:CD	2.12	0.69
1:I:274:PHE:HB2	1:I:278:GLN:NE2	2.08	0.69
1:J:274:PHE:HB2	1:J:278:GLN:NE2	2.08	0.69
1:K:27:LYS:HZ3	1:K:35:ARG:HH21	1.39	0.69
1:K:32:ASP:HB3	1:K:34:LYS:HD3	1.73	0.69
1:K:52:ILE:HD11	1:O:247:ASP:CA	1.91	0.69
1:K:324:ALA:N	1:L:47:ASP:C	2.46	0.69
1:L:207:LYS:O	1:L:211:ILE:HG23	1.92	0.69
1:M:207:LYS:O	1:M:211:ILE:HG23	1.92	0.69
1:M:320:LYS:HD3	1:N:49:TYR:CD2	2.27	0.69
1:N:207:LYS:O	1:N:211:ILE:HG23	1.92	0.69
1:O:27:LYS:HZ3	1:O:35:ARG:HH21	1.41	0.69
1:O:274:PHE:HB2	1:O:278:GLN:NE2	2.08	0.69
1:A:248:THR:HG23	1:E:52:ILE:CD1	2.23	0.69
1:B:274:PHE:HB2	1:B:278:GLN:NE2	2.08	0.69
1:C:274:PHE:HB2	1:C:278:GLN:NE2	2.08	0.69
1:D:207:LYS:O	1:D:211:ILE:HG23	1.92	0.69
1:G:274:PHE:CE1	1:J:204:HIS:HD2	1.83	0.69
1:G:274:PHE:HB2	1:G:278:GLN:NE2	2.08	0.69
1:J:45:LEU:HD21	1:J:51:ASP:HB3	1.73	0.69
1:J:310:SER:HA	1:J:313:THR:HG23	1.75	0.69
1:M:27:LYS:HZ3	1:M:35:ARG:HH21	1.40	0.69
1:O:33:ILE:O	1:O:312:TRP:CZ2	2.45	0.69
1:A:274:PHE:HB2	1:A:278:GLN:NE2	2.08	0.69
1:E:274:PHE:HB2	1:E:278:GLN:NE2	2.08	0.69
1:E:310:SER:HA	1:E:313:THR:HG23	1.75	0.69
1:G:48:GLY:HA2	1:H:322:ALA:O	1.93	0.69
1:G:226:ILE:H	1:H:303:ASN:CB	1.97	0.69
1:I:310:SER:HA	1:I:313:THR:HG23	1.75	0.69
1:I:324:ALA:N	1:J:47:ASP:C	2.46	0.69
1:L:7:GLU:HG3	1:L:326:TYR:CZ	2.27	0.69
1:N:299:THR:CA	1:O:227:THR:HG21	2.16	0.69
1:G:203:GLU:N	1:J:272:ARG:CG	2.20	0.68
1:H:264:ASP:O	1:H:268:LEU:HD13	1.94	0.68
1:I:300:TYR:CD2	1:J:225:LEU:CB	2.72	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:274:PHE:HB2	1:K:278:GLN:NE2	2.08	0.68
1:A:230:GLN:CB	1:F:307:THR:C	2.40	0.68
1:B:229:GLU:OE2	1:G:309:ASN:C	2.20	0.68
1:E:164:LEU:CD1	1:E:316:GLU:HB2	2.23	0.68
1:F:164:LEU:CD1	1:F:316:GLU:HB2	2.23	0.68
1:J:207:LYS:O	1:J:211:ILE:HG23	1.92	0.68
1:K:45:LEU:HD21	1:K:51:ASP:HB3	1.72	0.68
1:K:277:ASP:O	1:L:224:ASN:CA	2.14	0.68
1:L:33:ILE:O	1:L:312:TRP:CZ2	2.45	0.68
1:M:164:LEU:CD1	1:M:316:GLU:HB2	2.23	0.68
1:F:173:ASN:HD22	1:F:279:LEU:HD23	1.59	0.68
1:G:164:LEU:CD1	1:G:316:GLU:HB2	2.23	0.68
1:G:264:ASP:O	1:G:268:LEU:HD13	1.94	0.68
1:H:164:LEU:CD1	1:H:316:GLU:HB2	2.23	0.68
1:K:264:ASP:O	1:K:268:LEU:HD13	1.94	0.68
1:K:310:SER:HA	1:K:313:THR:HG23	1.75	0.68
1:L:45:LEU:HD21	1:L:51:ASP:HB3	1.72	0.68
1:L:264:ASP:O	1:L:268:LEU:HD13	1.94	0.68
1:O:192:CYS:CB	1:P:79:THR:HG21	2.17	0.68
1:P:110:LEU:HD23	1:P:111:ALA:N	2.08	0.68
1:A:47:ASP:C	1:B:323:VAL:CG2	2.57	0.68
1:C:230:GLN:CB	1:H:306:ILE:HG13	2.24	0.68
1:C:248:THR:HG22	1:G:52:ILE:HA	1.74	0.68
1:C:310:SER:HA	1:C:313:THR:HG23	1.75	0.68
1:E:66:TYR:HE2	1:E:88:LEU:HD13	1.56	0.68
1:F:47:ASP:C	1:G:324:ALA:N	2.46	0.68
1:F:48:GLY:HA2	1:G:322:ALA:O	1.93	0.68
1:F:264:ASP:O	1:F:268:LEU:HD13	1.94	0.68
1:H:267:LYS:HD3	1:K:267:LYS:CD	2.21	0.68
1:I:110:LEU:HD23	1:I:111:ALA:N	2.08	0.68
1:I:173:ASN:HD22	1:I:279:LEU:HD23	1.59	0.68
1:I:264:ASP:O	1:I:268:LEU:HD13	1.94	0.68
1:A:11:THR:HG23	1:A:318:LEU:HB2	1.76	0.68
1:A:164:LEU:CD1	1:A:316:GLU:HB2	2.23	0.68
1:B:290:GLN:HB3	1:F:230:GLN:HE22	1.58	0.68
1:E:264:ASP:O	1:E:268:LEU:HD13	1.94	0.68
1:H:274:PHE:HB2	1:H:278:GLN:NE2	2.08	0.68
1:J:264:ASP:O	1:J:268:LEU:HD13	1.94	0.68
1:K:173:ASN:HD22	1:K:279:LEU:HD23	1.59	0.68
1:L:310:SER:HA	1:L:313:THR:HG23	1.75	0.68
1:N:11:THR:HG23	1:N:318:LEU:HB2	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:164:LEU:CD1	1:N:316:GLU:HB2	2.23	0.68
1:P:264:ASP:O	1:P:268:LEU:HD13	1.94	0.68
1:A:33:ILE:O	1:A:312:TRP:CE2	2.47	0.68
1:A:110:LEU:HD23	1:A:111:ALA:N	2.08	0.68
1:B:310:SER:HA	1:B:313:THR:HG23	1.75	0.68
1:C:33:ILE:O	1:C:312:TRP:CE2	2.47	0.68
1:C:110:LEU:HD23	1:C:111:ALA:N	2.08	0.68
1:J:7:GLU:HG3	1:J:326:TYR:CZ	2.27	0.68
1:J:110:LEU:HD23	1:J:111:ALA:N	2.09	0.68
1:J:200:PHE:HD1	1:J:272:ARG:HD2	1.59	0.68
1:N:274:PHE:HB2	1:N:278:GLN:NE2	2.08	0.68
1:O:164:LEU:CD1	1:O:316:GLU:HB2	2.23	0.68
1:P:207:LYS:O	1:P:211:ILE:HG23	1.92	0.68
1:D:11:THR:HG23	1:D:318:LEU:HB2	1.76	0.68
1:D:310:SER:HA	1:D:313:THR:HG23	1.75	0.68
1:E:45:LEU:HD22	1:E:58:LYS:HZ3	1.59	0.68
1:F:47:ASP:C	1:G:323:VAL:O	2.30	0.68
1:H:267:LYS:CD	1:K:267:LYS:HD3	2.22	0.68
1:J:33:ILE:O	1:J:312:TRP:CE2	2.47	0.68
1:L:43:TYR:CZ	1:L:70:GLU:CD	2.67	0.68
1:N:33:ILE:O	1:N:312:TRP:CE2	2.47	0.68
1:O:200:PHE:HD1	1:O:272:ARG:HD2	1.59	0.68
1:P:33:ILE:O	1:P:312:TRP:CE2	2.47	0.68
1:P:274:PHE:HB2	1:P:278:GLN:NE2	2.08	0.68
1:A:245:GLU:OE2	1:E:78:GLU:OE1	2.11	0.68
1:B:200:PHE:HD1	1:B:272:ARG:HD2	1.59	0.68
1:B:231:ALA:HB2	1:G:307:THR:HA	1.76	0.68
1:B:248:THR:HG23	1:F:52:ILE:CD1	2.24	0.68
1:C:11:THR:HG23	1:C:318:LEU:HB2	1.76	0.68
1:C:43:TYR:CZ	1:C:70:GLU:CD	2.67	0.68
1:C:44:ASN:CB	1:C:64:LYS:HZ1	2.07	0.68
1:C:164:LEU:CD1	1:C:316:GLU:HB2	2.23	0.68
1:C:230:GLN:C	1:H:308:ASN:ND2	2.47	0.68
1:D:164:LEU:CD1	1:D:316:GLU:HB2	2.23	0.68
1:D:264:ASP:O	1:D:268:LEU:HD13	1.94	0.68
1:F:200:PHE:HD1	1:F:272:ARG:HD2	1.59	0.68
1:G:202:GLU:CA	1:J:272:ARG:HG3	2.22	0.68
1:H:173:ASN:HD22	1:H:279:LEU:HD23	1.59	0.68
1:I:275:LYS:NZ	1:J:224:ASN:HD22	1.76	0.68
1:J:322:ALA:O	1:K:48:GLY:HA2	1.93	0.68
1:K:33:ILE:O	1:K:312:TRP:CE2	2.47	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:322:ALA:O	1:L:48:GLY:HA2	1.93	0.68
1:L:33:ILE:O	1:L:312:TRP:CE2	2.47	0.68
1:L:110:LEU:HD23	1:L:111:ALA:N	2.09	0.68
1:L:274:PHE:HB2	1:L:278:GLN:NE2	2.08	0.68
1:M:11:THR:HG23	1:M:318:LEU:HB2	1.76	0.68
1:M:33:ILE:O	1:M:312:TRP:CE2	2.47	0.68
1:M:43:TYR:CZ	1:M:70:GLU:CD	2.67	0.68
1:P:164:LEU:CD1	1:P:316:GLU:HB2	2.23	0.68
1:A:43:TYR:CZ	1:A:70:GLU:CD	2.68	0.68
1:B:11:THR:HG23	1:B:318:LEU:HB2	1.76	0.68
1:C:207:LYS:O	1:C:211:ILE:HG23	1.92	0.68
1:D:240:MET:HE3	1:H:73:VAL:HG21	1.75	0.68
1:D:245:GLU:CB	1:H:75:ASP:N	2.46	0.68
1:F:110:LEU:HD23	1:F:111:ALA:N	2.08	0.68
1:G:33:ILE:O	1:G:312:TRP:CE2	2.47	0.68
1:G:267:LYS:HD3	1:J:267:LYS:CD	2.22	0.68
1:H:43:TYR:CZ	1:H:70:GLU:CD	2.67	0.68
1:I:322:ALA:O	1:J:48:GLY:HA2	1.93	0.68
1:J:277:ASP:CB	1:K:219:ASP:CG	2.61	0.68
1:K:43:TYR:CZ	1:K:70:GLU:CD	2.67	0.68
1:L:52:ILE:CB	1:P:247:ASP:O	2.42	0.68
1:M:110:LEU:HD23	1:M:111:ALA:N	2.08	0.68
1:O:11:THR:HG23	1:O:318:LEU:HB2	1.76	0.68
1:P:11:THR:HG23	1:P:318:LEU:HB2	1.76	0.68
1:P:43:TYR:CZ	1:P:70:GLU:CD	2.67	0.68
1:P:310:SER:HA	1:P:313:THR:HG23	1.75	0.68
1:A:310:SER:HA	1:A:313:THR:HG23	1.75	0.68
1:D:33:ILE:O	1:D:312:TRP:CE2	2.47	0.68
1:G:207:LYS:O	1:G:211:ILE:HG23	1.92	0.68
1:H:33:ILE:O	1:H:312:TRP:CE2	2.47	0.68
1:J:166:GLN:C	1:O:241:LYS:HA	2.14	0.68
1:J:324:ALA:N	1:K:47:ASP:C	2.45	0.68
1:K:110:LEU:HD23	1:K:111:ALA:N	2.08	0.68
1:M:274:PHE:HB2	1:M:278:GLN:NE2	2.08	0.68
1:N:43:TYR:CZ	1:N:70:GLU:CD	2.67	0.68
1:O:33:ILE:O	1:O:312:TRP:CE2	2.47	0.68
1:O:138:VAL:HG21	1:O:145:TYR:CE2	2.30	0.68
1:P:173:ASN:HD22	1:P:279:LEU:HD23	1.59	0.68
1:B:33:ILE:O	1:B:312:TRP:CE2	2.47	0.67
1:C:264:ASP:O	1:C:268:LEU:HD13	1.94	0.67
1:D:43:TYR:CZ	1:D:70:GLU:CD	2.67	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:188:LEU:H	1:D:199:ARG:CG	2.08	0.67
1:D:245:GLU:CB	1:H:75:ASP:CA	2.72	0.67
1:E:33:ILE:O	1:E:312:TRP:CE2	2.47	0.67
1:E:110:LEU:HD23	1:E:111:ALA:N	2.09	0.67
1:E:119:ASN:O	1:E:123:LYS:HB3	1.95	0.67
1:F:33:ILE:O	1:F:312:TRP:CE2	2.47	0.67
1:F:119:ASN:O	1:F:123:LYS:HB3	1.95	0.67
1:G:110:LEU:HD23	1:G:111:ALA:N	2.08	0.67
1:H:11:THR:HG23	1:H:318:LEU:HB2	1.76	0.67
1:H:207:LYS:O	1:H:211:ILE:HG23	1.92	0.67
1:I:265:ALA:O	1:I:269:ILE:HG12	1.94	0.67
1:L:119:ASN:O	1:L:123:LYS:HB3	1.95	0.67
1:L:265:ALA:O	1:L:269:ILE:HG12	1.94	0.67
1:M:138:VAL:HG21	1:M:145:TYR:CE2	2.29	0.67
1:N:110:LEU:HD23	1:N:111:ALA:N	2.09	0.67
1:N:138:VAL:HG21	1:N:145:TYR:CE2	2.30	0.67
1:P:138:VAL:HG21	1:P:145:TYR:CE2	2.30	0.67
1:B:49:TYR:CD2	1:C:320:LYS:HD3	2.27	0.67
1:B:164:LEU:CD1	1:B:316:GLU:HB2	2.23	0.67
1:E:177:ILE:HD11	1:E:284:PHE:CG	2.30	0.67
1:G:43:TYR:CZ	1:G:70:GLU:CD	2.67	0.67
1:G:119:ASN:O	1:G:123:LYS:HB3	1.95	0.67
1:I:43:TYR:CZ	1:I:70:GLU:CD	2.67	0.67
1:I:277:ASP:HB3	1:J:219:ASP:C	2.11	0.67
1:J:308:ASN:HB3	1:O:228:ASN:C	2.13	0.67
1:K:308:ASN:CG	1:P:230:GLN:HA	2.15	0.67
1:O:110:LEU:HD23	1:O:111:ALA:N	2.08	0.67
1:O:310:SER:HA	1:O:313:THR:HG23	1.75	0.67
1:A:119:ASN:O	1:A:123:LYS:HB3	1.95	0.67
1:A:243:GLY:N	1:F:164:LEU:C	2.47	0.67
1:A:308:ASN:HD21	1:E:241:LYS:HB2	1.59	0.67
1:B:43:TYR:CZ	1:B:70:GLU:CD	2.68	0.67
1:C:188:LEU:H	1:C:199:ARG:CG	2.08	0.67
1:E:43:TYR:CZ	1:E:70:GLU:CD	2.67	0.67
1:E:179:PHE:HB3	1:E:288:THR:CB	2.22	0.67
1:E:265:ALA:O	1:E:269:ILE:HG12	1.94	0.67
1:G:47:ASP:C	1:H:323:VAL:O	2.30	0.67
1:H:119:ASN:O	1:H:123:LYS:HB3	1.95	0.67
1:I:177:ILE:HD11	1:I:284:PHE:CG	2.29	0.67
1:I:207:LYS:O	1:I:211:ILE:HG23	1.92	0.67
1:J:138:VAL:HG21	1:J:145:TYR:CE2	2.30	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:230:GLN:HE22	1:O:290:GLN:HB3	1.59	0.67
1:N:325:LYS:H	1:O:47:ASP:HB3	1.59	0.67
1:O:43:TYR:CZ	1:O:70:GLU:CD	2.67	0.67
1:O:264:ASP:O	1:O:268:LEU:HD13	1.94	0.67
1:A:138:VAL:HG21	1:A:145:TYR:CE2	2.30	0.67
1:B:39:LYS:CE	1:B:41:LYS:HD2	2.25	0.67
1:B:119:ASN:O	1:B:123:LYS:HB3	1.95	0.67
1:B:241:LYS:HA	1:G:166:GLN:C	2.14	0.67
1:D:39:LYS:CE	1:D:41:LYS:HD2	2.25	0.67
1:D:110:LEU:HD23	1:D:111:ALA:N	2.09	0.67
1:D:222:ASN:CB	1:D:237:ASN:HB2	2.25	0.67
1:E:222:ASN:CB	1:E:237:ASN:HB2	2.25	0.67
1:G:226:ILE:HD11	1:H:280:ASP:O	1.94	0.67
1:G:267:LYS:CD	1:J:267:LYS:HD3	2.22	0.67
1:J:320:LYS:HA	1:O:246:ILE:CG1	2.25	0.67
1:K:177:ILE:HD11	1:K:284:PHE:CG	2.30	0.67
1:M:188:LEU:H	1:M:199:ARG:CG	2.08	0.67
1:M:325:LYS:H	1:N:47:ASP:HB3	1.59	0.67
1:N:39:LYS:CE	1:N:41:LYS:HD2	2.25	0.67
1:N:264:ASP:O	1:N:268:LEU:HD13	1.94	0.67
1:O:39:LYS:CE	1:O:41:LYS:HD2	2.25	0.67
1:C:119:ASN:O	1:C:123:LYS:HB3	1.95	0.67
1:C:138:VAL:HG21	1:C:145:TYR:CE2	2.30	0.67
1:C:240:MET:HE2	1:G:73:VAL:CB	2.19	0.67
1:C:241:LYS:O	1:H:165:GLU:CA	2.43	0.67
1:E:138:VAL:HG21	1:E:145:TYR:CE2	2.30	0.67
1:G:177:ILE:HD11	1:G:284:PHE:CG	2.30	0.67
1:G:219:ASP:C	1:H:277:ASP:HB3	2.11	0.67
1:G:265:ALA:O	1:G:269:ILE:HG12	1.95	0.67
1:H:274:PHE:CE1	1:K:204:HIS:HD2	1.81	0.67
1:J:177:ILE:HD11	1:J:284:PHE:CG	2.30	0.67
1:J:265:ALA:O	1:J:269:ILE:HG12	1.94	0.67
1:J:308:ASN:CG	1:O:230:GLN:C	2.49	0.67
1:L:164:LEU:CD1	1:L:316:GLU:HB2	2.23	0.67
1:L:177:ILE:HD11	1:L:284:PHE:CG	2.30	0.67
1:M:39:LYS:CE	1:M:41:LYS:HD2	2.25	0.67
1:M:264:ASP:O	1:M:268:LEU:HD13	1.94	0.67
1:B:222:ASN:CB	1:B:237:ASN:HB2	2.25	0.67
1:B:231:ALA:C	1:G:308:ASN:HD22	1.95	0.67
1:C:47:ASP:HB3	1:D:325:LYS:H	1.59	0.67
1:C:222:ASN:CB	1:C:237:ASN:HB2	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:240:MET:HE2	1:G:73:VAL:HB	1.75	0.67
1:D:200:PHE:HD1	1:D:272:ARG:HD2	1.59	0.67
1:F:177:ILE:HD11	1:F:284:PHE:CG	2.30	0.67
1:F:222:ASN:CB	1:F:237:ASN:HB2	2.25	0.67
1:H:177:ILE:HD11	1:H:284:PHE:CG	2.30	0.67
1:I:119:ASN:O	1:I:123:LYS:HB3	1.95	0.67
1:J:50:ILE:C	1:N:246:ILE:CA	2.57	0.67
1:K:280:ASP:O	1:L:226:ILE:HD11	1.94	0.67
1:O:325:LYS:H	1:P:47:ASP:HB3	1.59	0.67
1:P:119:ASN:O	1:P:123:LYS:HB3	1.95	0.67
1:A:39:LYS:CE	1:A:41:LYS:HD2	2.25	0.67
1:A:222:ASN:CB	1:A:237:ASN:HB2	2.25	0.67
1:A:231:ALA:C	1:F:308:ASN:HD22	1.98	0.67
1:D:138:VAL:HG21	1:D:145:TYR:CE2	2.30	0.67
1:E:139:LYS:H	1:E:143:LYS:H	1.43	0.67
1:F:272:ARG:CB	1:I:202:GLU:HA	2.25	0.67
1:G:222:ASN:CB	1:G:237:ASN:HB2	2.25	0.67
1:H:110:LEU:HD23	1:H:111:ALA:N	2.08	0.67
1:H:200:PHE:HD1	1:H:272:ARG:HD2	1.59	0.67
1:I:139:LYS:H	1:I:143:LYS:H	1.43	0.67
1:I:164:LEU:CD1	1:I:316:GLU:HB2	2.23	0.67
1:J:43:TYR:CZ	1:J:70:GLU:CD	2.67	0.67
1:K:309:ASN:O	1:P:229:GLU:OE1	2.12	0.67
1:L:139:LYS:H	1:L:143:LYS:H	1.43	0.67
1:N:200:PHE:HD1	1:N:272:ARG:HD2	1.59	0.67
1:N:310:SER:HA	1:N:313:THR:HG23	1.75	0.67
1:A:248:THR:HG22	1:E:52:ILE:CA	2.14	0.67
1:B:47:ASP:HB3	1:C:325:LYS:H	1.59	0.67
1:B:138:VAL:HG21	1:B:145:TYR:CE2	2.29	0.67
1:B:188:LEU:H	1:B:199:ARG:CG	2.08	0.67
1:C:248:THR:CA	1:G:52:ILE:HG23	2.25	0.67
1:F:43:TYR:CZ	1:F:70:GLU:CD	2.67	0.67
1:G:219:ASP:CG	1:H:277:ASP:CB	2.61	0.67
1:H:265:ALA:O	1:H:269:ILE:HG12	1.94	0.67
1:I:280:ASP:O	1:J:226:ILE:HD11	1.94	0.67
1:I:308:ASN:ND2	1:N:231:ALA:C	2.48	0.67
1:K:119:ASN:O	1:K:123:LYS:HB3	1.95	0.67
1:K:164:LEU:CD1	1:K:316:GLU:HB2	2.23	0.67
1:K:300:TYR:CD2	1:L:225:LEU:CB	2.72	0.67
1:N:177:ILE:HG13	1:N:284:PHE:HA	1.77	0.67
1:O:300:TYR:CZ	1:P:225:LEU:HD22	2.20	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:39:LYS:CE	1:P:41:LYS:HD2	2.25	0.67
1:P:177:ILE:HG13	1:P:284:PHE:HA	1.77	0.67
1:A:200:PHE:HD1	1:A:272:ARG:HD2	1.59	0.67
1:B:110:LEU:HD23	1:B:111:ALA:N	2.08	0.67
1:C:200:PHE:HD1	1:C:272:ARG:HD2	1.59	0.67
1:F:203:GLU:CB	1:I:198:GLU:CG	2.64	0.67
1:H:222:ASN:CB	1:H:237:ASN:HB2	2.25	0.67
1:I:138:VAL:HG21	1:I:145:TYR:CE2	2.30	0.67
1:J:139:LYS:H	1:J:143:LYS:H	1.43	0.67
1:K:52:ILE:CB	1:O:247:ASP:O	2.42	0.67
1:K:138:VAL:HG21	1:K:145:TYR:CE2	2.30	0.67
1:M:119:ASN:O	1:M:123:LYS:HB3	1.95	0.67
1:M:177:ILE:HG13	1:M:284:PHE:HA	1.77	0.67
1:M:179:PHE:HB3	1:M:288:THR:CB	2.22	0.67
1:M:265:ALA:O	1:M:269:ILE:HG12	1.94	0.67
1:N:265:ALA:O	1:N:269:ILE:HG12	1.94	0.67
1:N:300:TYR:CZ	1:O:225:LEU:HD22	2.20	0.67
1:O:177:ILE:HG13	1:O:284:PHE:HA	1.77	0.67
1:A:47:ASP:HB3	1:B:325:LYS:H	1.59	0.67
1:B:227:THR:HG21	1:C:299:THR:CA	2.16	0.67
1:B:264:ASP:O	1:B:268:LEU:HD13	1.94	0.67
1:C:248:THR:HA	1:G:52:ILE:CG2	2.23	0.67
1:C:265:ALA:O	1:C:269:ILE:HG12	1.94	0.67
1:D:58:LYS:HZ2	1:D:65:GLU:HG2	1.60	0.67
1:D:119:ASN:O	1:D:123:LYS:HB3	1.95	0.67
1:E:48:GLY:HA2	1:F:322:ALA:O	1.93	0.67
1:F:139:LYS:H	1:F:143:LYS:H	1.43	0.67
1:F:226:ILE:HD11	1:G:280:ASP:O	1.94	0.67
1:G:173:ASN:HD22	1:G:279:LEU:HD23	1.59	0.67
1:I:33:ILE:O	1:I:312:TRP:CE2	2.47	0.67
1:J:280:ASP:O	1:K:226:ILE:HD11	1.94	0.67
1:K:11:THR:HG23	1:K:318:LEU:HB2	1.76	0.67
1:K:200:PHE:HD1	1:K:272:ARG:HD2	1.59	0.67
1:L:39:LYS:CE	1:L:41:LYS:HD2	2.25	0.67
1:M:200:PHE:HD1	1:M:272:ARG:HD2	1.59	0.67
1:N:177:ILE:HD11	1:N:284:PHE:CG	2.30	0.67
1:N:188:LEU:H	1:N:199:ARG:CG	2.08	0.67
1:O:119:ASN:O	1:O:123:LYS:HB3	1.95	0.67
1:A:265:ALA:O	1:A:269:ILE:HG12	1.94	0.66
1:C:177:ILE:HG13	1:C:284:PHE:HA	1.77	0.66
1:D:177:ILE:HG13	1:D:284:PHE:HA	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:27:LYS:HZ3	1:H:35:ARG:HH21	1.40	0.66
1:I:222:ASN:CB	1:I:237:ASN:HB2	2.25	0.66
1:J:119:ASN:O	1:J:123:LYS:HB3	1.95	0.66
1:J:179:PHE:HB3	1:J:288:THR:CB	2.22	0.66
1:J:275:LYS:HZ2	1:K:219:ASP:CG	1.97	0.66
1:K:45:LEU:HD22	1:K:58:LYS:HZ3	1.59	0.66
1:K:323:VAL:O	1:L:47:ASP:C	2.30	0.66
1:M:310:SER:HA	1:M:313:THR:HG23	1.75	0.66
1:N:323:VAL:CG2	1:O:47:ASP:C	2.57	0.66
1:O:45:LEU:HD22	1:O:58:LYS:HZ3	1.60	0.66
1:O:177:ILE:HD11	1:O:284:PHE:CG	2.30	0.66
1:O:265:ALA:O	1:O:269:ILE:HG12	1.95	0.66
1:A:177:ILE:HG13	1:A:284:PHE:HA	1.77	0.66
1:A:231:ALA:CB	1:F:307:THR:HA	2.25	0.66
1:A:243:GLY:O	1:F:163:PHE:HA	1.94	0.66
1:B:265:ALA:O	1:B:269:ILE:HG12	1.94	0.66
1:C:247:ASP:O	1:G:52:ILE:HG13	1.95	0.66
1:D:265:ALA:O	1:D:269:ILE:HG12	1.95	0.66
1:F:198:GLU:CA	1:I:203:GLU:CB	2.69	0.66
1:F:201:ILE:O	1:I:200:PHE:HB3	1.94	0.66
1:F:274:PHE:HE1	1:I:204:HIS:HD2	1.17	0.66
1:G:11:THR:HG23	1:G:318:LEU:HB2	1.76	0.66
1:G:39:LYS:CE	1:G:41:LYS:HD2	2.25	0.66
1:G:268:LEU:HD22	1:J:271:LYS:CE	2.26	0.66
1:J:11:THR:HG23	1:J:318:LEU:HB2	1.76	0.66
1:J:164:LEU:CD1	1:J:316:GLU:HB2	2.23	0.66
1:J:222:ASN:CB	1:J:237:ASN:HB2	2.25	0.66
1:J:308:ASN:ND2	1:O:231:ALA:C	2.48	0.66
1:K:139:LYS:H	1:K:143:LYS:H	1.43	0.66
1:L:45:LEU:HD22	1:L:58:LYS:HZ3	1.60	0.66
1:M:45:LEU:HD22	1:M:58:LYS:HZ3	1.60	0.66
1:M:177:ILE:HD11	1:M:284:PHE:CG	2.30	0.66
1:P:177:ILE:HD11	1:P:284:PHE:CG	2.30	0.66
1:A:246:ILE:N	1:E:49:TYR:CE2	2.39	0.66
1:A:264:ASP:O	1:A:268:LEU:HD13	1.94	0.66
1:B:27:LYS:HZ3	1:B:35:ARG:HH21	1.41	0.66
1:B:245:GLU:OE2	1:F:78:GLU:OE1	2.14	0.66
1:C:95:THR:CG2	1:C:136:ILE:HD13	2.22	0.66
1:C:139:LYS:H	1:C:143:LYS:H	1.43	0.66
1:D:177:ILE:HD11	1:D:284:PHE:CG	2.29	0.66
1:E:11:THR:HG23	1:E:318:LEU:HB2	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:203:GLU:H	1:I:272:ARG:CB	2.07	0.66
1:G:271:LYS:CE	1:J:268:LEU:HD22	2.25	0.66
1:P:265:ALA:O	1:P:269:ILE:HG12	1.94	0.66
1:A:247:ASP:CG	1:F:320:LYS:HE2	2.16	0.66
1:C:177:ILE:HD11	1:C:284:PHE:CG	2.29	0.66
1:D:173:ASN:HD22	1:D:279:LEU:HD23	1.59	0.66
1:E:200:PHE:HD1	1:E:272:ARG:HD2	1.59	0.66
1:E:226:ILE:HD11	1:F:280:ASP:O	1.94	0.66
1:F:138:VAL:HG21	1:F:145:TYR:CE2	2.30	0.66
1:G:203:GLU:HA	1:J:197:SER:O	1.94	0.66
1:H:39:LYS:CE	1:H:41:LYS:HD2	2.25	0.66
1:K:39:LYS:CE	1:K:41:LYS:HD2	2.25	0.66
1:K:265:ALA:O	1:K:269:ILE:HG12	1.95	0.66
1:L:138:VAL:HG21	1:L:145:TYR:CE2	2.30	0.66
1:M:300:TYR:CZ	1:N:225:LEU:HD22	2.20	0.66
1:N:179:PHE:HB3	1:N:288:THR:CB	2.22	0.66
1:A:177:ILE:HD11	1:A:284:PHE:CG	2.30	0.66
1:A:188:LEU:H	1:A:199:ARG:CG	2.08	0.66
1:B:177:ILE:HD11	1:B:284:PHE:CG	2.30	0.66
1:B:177:ILE:HG13	1:B:284:PHE:HA	1.77	0.66
1:C:133:ASN:ND2	1:C:148:GLU:CA	2.59	0.66
1:D:186:PHE:HD2	1:D:269:ILE:HD11	1.61	0.66
1:E:173:ASN:HD22	1:E:279:LEU:HD23	1.59	0.66
1:G:271:LYS:HZ1	1:J:268:LEU:HD22	1.59	0.66
1:H:45:LEU:CD2	1:H:51:ASP:HB3	2.26	0.66
1:L:173:ASN:HD22	1:L:279:LEU:HD23	1.59	0.66
1:P:45:LEU:CD2	1:P:51:ASP:HB3	2.26	0.66
1:B:46:GLU:O	1:C:320:LYS:O	2.14	0.66
1:C:246:ILE:HD11	1:H:320:LYS:CA	2.05	0.66
1:D:95:THR:CG2	1:D:136:ILE:HD13	2.22	0.66
1:D:139:LYS:H	1:D:143:LYS:H	1.43	0.66
1:D:283:ILE:HG22	1:D:285:ILE:HG23	1.78	0.66
1:E:39:LYS:CE	1:E:41:LYS:HD2	2.25	0.66
1:F:45:LEU:CD2	1:F:51:ASP:HB3	2.26	0.66
1:G:197:SER:OG	1:J:183:ASN:OD1	2.11	0.66
1:H:139:LYS:H	1:H:143:LYS:H	1.43	0.66
1:H:188:LEU:H	1:H:199:ARG:CG	2.07	0.66
1:K:110:LEU:HD13	1:K:126:TYR:OH	1.96	0.66
1:K:222:ASN:CB	1:K:237:ASN:HB2	2.25	0.66
1:L:179:PHE:HB3	1:L:288:THR:CB	2.22	0.66
1:M:222:ASN:CB	1:M:237:ASN:HB2	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:45:LEU:CD2	1:N:51:ASP:HB3	2.26	0.66
1:O:188:LEU:H	1:O:199:ARG:CG	2.08	0.66
1:A:246:ILE:HG13	1:E:49:TYR:CG	2.31	0.66
1:C:39:LYS:CE	1:C:41:LYS:HD2	2.25	0.66
1:E:27:LYS:HZ3	1:E:35:ARG:HH21	1.42	0.66
1:E:47:ASP:C	1:F:323:VAL:O	2.30	0.66
1:F:56:SER:CB	1:F:70:GLU:HB3	2.26	0.66
1:F:110:LEU:HD13	1:F:126:TYR:OH	1.96	0.66
1:G:110:LEU:HD13	1:G:126:TYR:OH	1.96	0.66
1:G:138:VAL:HG21	1:G:145:TYR:CE2	2.30	0.66
1:H:138:VAL:HG21	1:H:145:TYR:CE2	2.30	0.66
1:I:305:ILE:HG22	1:N:241:LYS:NZ	2.10	0.66
1:J:275:LYS:NZ	1:K:224:ASN:HD22	1.76	0.66
1:L:11:THR:HG23	1:L:318:LEU:HB2	1.76	0.66
1:L:222:ASN:CB	1:L:237:ASN:HB2	2.25	0.66
1:O:179:PHE:HB3	1:O:288:THR:CB	2.22	0.66
1:P:200:PHE:HD1	1:P:272:ARG:HD2	1.59	0.66
1:E:56:SER:CB	1:E:70:GLU:HB3	2.26	0.66
1:E:110:LEU:HD13	1:E:126:TYR:OH	1.96	0.66
1:F:39:LYS:CE	1:F:41:LYS:HD2	2.25	0.66
1:G:45:LEU:CD2	1:G:51:ASP:HB3	2.26	0.66
1:G:56:SER:CB	1:G:70:GLU:HB3	2.26	0.66
1:G:133:ASN:ND2	1:G:148:GLU:CA	2.59	0.66
1:G:139:LYS:H	1:G:143:LYS:H	1.43	0.66
1:G:272:ARG:HG3	1:J:202:GLU:HA	1.67	0.66
1:H:56:SER:CB	1:H:70:GLU:HB3	2.26	0.66
1:H:110:LEU:HD13	1:H:126:TYR:OH	1.96	0.66
1:H:272:ARG:CB	1:K:203:GLU:H	2.09	0.66
1:J:173:ASN:HD22	1:J:279:LEU:HD23	1.59	0.66
1:K:56:SER:CB	1:K:70:GLU:HB3	2.26	0.66
1:L:56:SER:CB	1:L:70:GLU:HB3	2.26	0.66
1:L:110:LEU:HD13	1:L:126:TYR:OH	1.96	0.66
1:M:283:ILE:HG22	1:M:285:ILE:HG23	1.78	0.66
1:N:119:ASN:O	1:N:123:LYS:HB3	1.95	0.66
1:A:208:ASP:HA	1:A:211:ILE:CD1	2.26	0.66
1:B:56:SER:CB	1:B:70:GLU:HB3	2.26	0.66
1:B:247:ASP:O	1:F:52:ILE:CB	2.43	0.66
1:C:47:ASP:C	1:D:323:VAL:CG2	2.57	0.66
1:C:56:SER:CB	1:C:70:GLU:HB3	2.26	0.66
1:C:246:ILE:N	1:G:49:TYR:CZ	2.62	0.66
1:G:200:PHE:HD1	1:G:272:ARG:HD2	1.59	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:39:LYS:CE	1:I:41:LYS:HD2	2.25	0.66
1:I:43:TYR:CE2	1:I:70:GLU:CD	2.70	0.66
1:I:45:LEU:CD2	1:I:51:ASP:HB3	2.26	0.66
1:I:308:ASN:O	1:N:229:GLU:OE1	2.14	0.66
1:K:277:ASP:HB3	1:L:219:ASP:N	2.05	0.66
1:M:173:ASN:HD22	1:M:279:LEU:HD23	1.59	0.66
1:M:320:LYS:O	1:N:46:GLU:O	2.14	0.66
1:N:222:ASN:CB	1:N:237:ASN:HB2	2.25	0.66
1:O:222:ASN:CB	1:O:237:ASN:HB2	2.25	0.66
1:P:222:ASN:CB	1:P:237:ASN:HB2	2.25	0.66
1:A:45:LEU:CD2	1:A:51:ASP:HB3	2.26	0.66
1:A:188:LEU:N	1:A:199:ARG:HG2	2.10	0.66
1:B:34:LYS:HG2	1:B:36:VAL:HA	1.78	0.66
1:B:46:GLU:CA	1:C:324:ALA:HB1	1.92	0.66
1:D:56:SER:CB	1:D:70:GLU:HB3	2.26	0.66
1:E:43:TYR:CE2	1:E:70:GLU:CD	2.70	0.66
1:E:45:LEU:CD2	1:E:51:ASP:HB3	2.26	0.66
1:F:265:ALA:O	1:F:269:ILE:HG12	1.94	0.66
1:H:200:PHE:HB3	1:K:201:ILE:O	1.96	0.66
1:H:271:LYS:CD	1:K:202:GLU:HG3	2.26	0.66
1:I:200:PHE:HD1	1:I:272:ARG:HD2	1.59	0.66
1:J:45:LEU:CD2	1:J:51:ASP:HB3	2.26	0.66
1:J:74:GLU:O	1:N:245:GLU:HB3	1.96	0.66
1:J:110:LEU:HD13	1:J:126:TYR:OH	1.96	0.66
1:J:164:LEU:C	1:O:243:GLY:N	2.48	0.66
1:K:179:PHE:HB3	1:K:288:THR:CB	2.22	0.66
1:K:306:ILE:HD12	1:K:307:THR:H	1.61	0.66
1:N:320:LYS:O	1:O:46:GLU:O	2.14	0.66
1:P:105:LYS:HZ2	1:P:148:GLU:HB3	1.61	0.66
1:A:34:LYS:HG2	1:A:36:VAL:HA	1.78	0.65
1:A:56:SER:CB	1:A:70:GLU:HB3	2.26	0.65
1:A:139:LYS:H	1:A:143:LYS:H	1.43	0.65
1:A:283:ILE:HG22	1:A:285:ILE:HG23	1.78	0.65
1:A:306:ILE:HD12	1:A:307:THR:H	1.61	0.65
1:B:45:LEU:CD2	1:B:51:ASP:HB3	2.26	0.65
1:C:50:ILE:CB	1:D:320:LYS:HE2	2.13	0.65
1:G:197:SER:O	1:J:203:GLU:HA	1.94	0.65
1:I:11:THR:HG23	1:I:318:LEU:HB2	1.76	0.65
1:I:95:THR:HG22	1:I:136:ILE:HG21	1.78	0.65
1:I:188:LEU:H	1:I:199:ARG:CG	2.08	0.65
1:I:208:ASP:HA	1:I:211:ILE:CD1	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:277:ASP:CB	1:J:219:ASP:CG	2.61	0.65
1:J:39:LYS:CE	1:J:41:LYS:HD2	2.25	0.65
1:J:56:SER:CB	1:J:70:GLU:HB3	2.26	0.65
1:J:208:ASP:HA	1:J:211:ILE:CD1	2.27	0.65
1:L:208:ASP:HA	1:L:211:ILE:CD1	2.27	0.65
1:M:208:ASP:HA	1:M:211:ILE:CD1	2.27	0.65
1:N:43:TYR:CE2	1:N:70:GLU:CD	2.70	0.65
1:N:208:ASP:HA	1:N:211:ILE:CD1	2.26	0.65
1:N:283:ILE:HG22	1:N:285:ILE:HG23	1.78	0.65
1:A:46:GLU:O	1:B:320:LYS:O	2.14	0.65
1:B:43:TYR:CE2	1:B:70:GLU:CD	2.70	0.65
1:B:46:GLU:HA	1:C:324:ALA:HB1	1.68	0.65
1:B:50:ILE:CB	1:C:320:LYS:HE2	2.13	0.65
1:B:188:LEU:N	1:B:199:ARG:HG2	2.10	0.65
1:B:208:ASP:HA	1:B:211:ILE:CD1	2.26	0.65
1:B:229:GLU:OE1	1:G:308:ASN:O	2.13	0.65
1:B:229:GLU:OE1	1:G:309:ASN:O	2.13	0.65
1:B:306:ILE:HD12	1:B:307:THR:H	1.61	0.65
1:C:45:LEU:CD2	1:C:51:ASP:HB3	2.26	0.65
1:C:186:PHE:HD2	1:C:269:ILE:HD11	1.61	0.65
1:D:179:PHE:HB3	1:D:288:THR:CB	2.22	0.65
1:E:208:ASP:HA	1:E:211:ILE:CD1	2.27	0.65
1:F:198:GLU:CG	1:I:203:GLU:CD	2.64	0.65
1:G:43:TYR:CE2	1:G:70:GLU:CD	2.70	0.65
1:G:109:VAL:CB	1:G:322:ALA:HB2	2.26	0.65
1:G:119:ASN:OD1	1:J:120:ALA:N	2.28	0.65
1:G:208:ASP:HA	1:G:211:ILE:CD1	2.27	0.65
1:G:224:ASN:HD21	1:H:275:LYS:NZ	1.73	0.65
1:G:283:ILE:HG22	1:G:285:ILE:HG23	1.78	0.65
1:I:56:SER:CB	1:I:70:GLU:HB3	2.26	0.65
1:I:179:PHE:HB3	1:I:288:THR:CB	2.22	0.65
1:J:306:ILE:HD12	1:J:307:THR:H	1.61	0.65
1:K:43:TYR:CE2	1:K:70:GLU:CD	2.70	0.65
1:L:109:VAL:CB	1:L:322:ALA:HB2	2.26	0.65
1:O:133:ASN:ND2	1:O:148:GLU:CA	2.59	0.65
1:C:46:GLU:O	1:D:320:LYS:O	2.14	0.65
1:C:188:LEU:N	1:C:199:ARG:HG2	2.10	0.65
1:D:43:TYR:CE2	1:D:70:GLU:CD	2.70	0.65
1:E:306:ILE:HD12	1:E:307:THR:H	1.61	0.65
1:F:11:THR:HG23	1:F:318:LEU:HB2	1.76	0.65
1:F:202:GLU:CA	1:I:272:ARG:HG3	2.25	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:208:ASP:HA	1:F:211:ILE:CD1	2.27	0.65
1:G:188:LEU:H	1:G:199:ARG:CG	2.07	0.65
1:J:133:ASN:ND2	1:J:148:GLU:CA	2.59	0.65
1:J:222:ASN:HB2	1:J:237:ASN:CB	2.26	0.65
1:K:45:LEU:CD2	1:K:51:ASP:HB3	2.26	0.65
1:K:208:ASP:HA	1:K:211:ILE:CD1	2.26	0.65
1:M:222:ASN:HB2	1:M:237:ASN:CB	2.26	0.65
1:N:44:ASN:CB	1:N:64:LYS:HZ1	2.10	0.65
1:N:324:ALA:HB1	1:O:46:GLU:HA	1.68	0.65
1:P:306:ILE:HD12	1:P:307:THR:H	1.61	0.65
1:A:246:ILE:CD1	1:F:320:LYS:C	2.65	0.65
1:B:95:THR:HG22	1:B:136:ILE:HG21	1.78	0.65
1:B:139:LYS:H	1:B:143:LYS:H	1.43	0.65
1:C:34:LYS:HG2	1:C:36:VAL:HA	1.78	0.65
1:D:45:LEU:CD2	1:D:51:ASP:HB3	2.26	0.65
1:E:95:THR:HG22	1:E:136:ILE:HG21	1.78	0.65
1:F:27:LYS:HZ3	1:F:35:ARG:HH21	1.43	0.65
1:F:283:ILE:HG22	1:F:285:ILE:HG23	1.78	0.65
1:H:198:GLU:CG	1:K:203:GLU:CB	2.67	0.65
1:H:208:ASP:HA	1:H:211:ILE:CD1	2.27	0.65
1:I:110:LEU:HD13	1:I:126:TYR:OH	1.96	0.65
1:I:222:ASN:HB2	1:I:237:ASN:CB	2.26	0.65
1:J:277:ASP:HB3	1:K:219:ASP:C	2.11	0.65
1:K:320:LYS:O	1:P:246:ILE:HD11	1.73	0.65
1:L:43:TYR:CE2	1:L:70:GLU:CD	2.70	0.65
1:M:186:PHE:HD2	1:M:269:ILE:HD11	1.61	0.65
1:A:50:ILE:CB	1:B:320:LYS:HE2	2.13	0.65
1:C:308:ASN:HD21	1:G:241:LYS:CB	2.09	0.65
1:E:188:LEU:N	1:E:199:ARG:HG2	2.10	0.65
1:F:71:GLN:CG	1:G:168:ASN:HB3	2.27	0.65
1:G:45:LEU:HD22	1:G:58:LYS:HZ3	1.61	0.65
1:H:119:ASN:HD21	1:K:119:ASN:HA	1.61	0.65
1:I:277:ASP:CB	1:J:219:ASP:CB	2.65	0.65
1:M:45:LEU:CD2	1:M:51:ASP:HB3	2.26	0.65
1:M:306:ILE:HD12	1:M:307:THR:H	1.61	0.65
1:N:306:ILE:HD12	1:N:307:THR:H	1.61	0.65
1:O:306:ILE:HD12	1:O:307:THR:H	1.61	0.65
1:P:43:TYR:CE2	1:P:70:GLU:CD	2.70	0.65
1:P:188:LEU:H	1:P:199:ARG:CG	2.07	0.65
1:D:110:LEU:HD13	1:D:126:TYR:OH	1.96	0.65
1:D:188:LEU:N	1:D:199:ARG:HG2	2.10	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:34:LYS:HG2	1:E:36:VAL:HA	1.78	0.65
1:E:227:THR:O	1:F:300:TYR:CA	2.35	0.65
1:F:95:THR:HG22	1:F:136:ILE:HG21	1.79	0.65
1:F:133:ASN:ND2	1:F:148:GLU:CA	2.59	0.65
1:F:177:ILE:HG13	1:F:284:PHE:HA	1.77	0.65
1:F:219:ASP:CB	1:G:277:ASP:CB	2.65	0.65
1:G:34:LYS:HG2	1:G:36:VAL:HA	1.78	0.65
1:I:168:ASN:HB3	1:J:71:GLN:CG	2.27	0.65
1:K:109:VAL:CB	1:K:322:ALA:HB2	2.26	0.65
1:K:222:ASN:HB2	1:K:237:ASN:CB	2.26	0.65
1:K:308:ASN:CG	1:P:230:GLN:C	2.55	0.65
1:N:222:ASN:HB2	1:N:237:ASN:CB	2.26	0.65
1:P:110:LEU:HD13	1:P:126:TYR:OH	1.96	0.65
1:P:208:ASP:HA	1:P:211:ILE:CD1	2.27	0.65
1:A:173:ASN:HD22	1:A:279:LEU:HD23	1.59	0.65
1:A:222:ASN:HB2	1:A:237:ASN:CB	2.26	0.65
1:A:245:GLU:OE1	1:E:75:ASP:OD1	2.14	0.65
1:B:173:ASN:HD22	1:B:279:LEU:HD23	1.59	0.65
1:B:186:PHE:HD2	1:B:269:ILE:HD11	1.61	0.65
1:B:230:GLN:HA	1:G:308:ASN:OD1	1.96	0.65
1:C:43:TYR:CE2	1:C:70:GLU:CD	2.70	0.65
1:C:245:GLU:O	1:G:52:ILE:CG1	2.44	0.65
1:C:283:ILE:HG22	1:C:285:ILE:HG23	1.78	0.65
1:C:306:ILE:HD12	1:C:307:THR:H	1.62	0.65
1:D:34:LYS:HG2	1:D:36:VAL:HA	1.78	0.65
1:D:95:THR:HG22	1:D:136:ILE:HG21	1.79	0.65
1:E:177:ILE:HG13	1:E:284:PHE:HA	1.78	0.65
1:F:188:LEU:N	1:F:199:ARG:HG2	2.10	0.65
1:F:204:HIS:CE1	1:I:274:PHE:HD1	2.11	0.65
1:H:109:VAL:CB	1:H:322:ALA:HB2	2.26	0.65
1:H:202:GLU:HG2	1:K:272:ARG:CB	2.27	0.65
1:H:306:ILE:HD12	1:H:307:THR:H	1.62	0.65
1:J:43:TYR:CE2	1:J:70:GLU:CD	2.70	0.65
1:J:95:THR:HG22	1:J:136:ILE:HG21	1.78	0.65
1:J:323:VAL:O	1:K:47:ASP:C	2.30	0.65
1:L:45:LEU:CD2	1:L:51:ASP:HB3	2.26	0.65
1:L:133:ASN:ND2	1:L:148:GLU:CA	2.59	0.65
1:L:222:ASN:HB2	1:L:237:ASN:CB	2.26	0.65
1:O:43:TYR:CE2	1:O:70:GLU:CD	2.70	0.65
1:O:222:ASN:HB2	1:O:237:ASN:CB	2.26	0.65
1:B:133:ASN:ND2	1:B:148:GLU:CA	2.59	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:222:ASN:HB2	1:B:237:ASN:CB	2.26	0.65
1:B:241:LYS:HZ1	1:G:305:ILE:HG22	1.62	0.65
1:F:34:LYS:HG2	1:F:36:VAL:HA	1.78	0.65
1:F:219:ASP:C	1:G:277:ASP:HB3	2.11	0.65
1:G:177:ILE:HG13	1:G:284:PHE:HA	1.77	0.65
1:I:308:ASN:HD22	1:N:232:GLU:H	0.68	0.65
1:K:177:ILE:HG13	1:K:284:PHE:HA	1.77	0.65
1:K:277:ASP:CB	1:L:219:ASP:CB	2.65	0.65
1:L:177:ILE:HG13	1:L:284:PHE:HA	1.77	0.65
1:O:208:ASP:HA	1:O:211:ILE:CD1	2.27	0.65
1:A:43:TYR:CE2	1:A:70:GLU:CD	2.70	0.65
1:A:105:LYS:HZ2	1:A:148:GLU:HB3	1.62	0.65
1:C:109:VAL:HG21	1:C:321:VAL:HG13	1.79	0.65
1:C:222:ASN:HB2	1:C:237:ASN:CB	2.26	0.65
1:E:71:GLN:CG	1:F:168:ASN:HB3	2.27	0.65
1:G:71:GLN:CG	1:H:168:ASN:HB3	2.27	0.65
1:G:120:ALA:N	1:J:119:ASN:OD1	2.28	0.65
1:J:188:LEU:H	1:J:199:ARG:CG	2.08	0.65
1:L:78:GLU:OE1	1:P:245:GLU:OE2	2.15	0.65
1:L:95:THR:HG22	1:L:136:ILE:HG21	1.78	0.65
1:L:306:ILE:HD12	1:L:307:THR:H	1.61	0.65
1:M:139:LYS:H	1:M:143:LYS:H	1.43	0.65
1:P:179:PHE:HB3	1:P:288:THR:CB	2.22	0.65
1:P:222:ASN:HB2	1:P:237:ASN:CB	2.26	0.65
1:B:246:ILE:HD11	1:G:320:LYS:C	2.17	0.65
1:C:110:LEU:HD13	1:C:126:TYR:OH	1.96	0.65
1:C:208:ASP:HA	1:C:211:ILE:CD1	2.27	0.65
1:D:306:ILE:HD12	1:D:307:THR:H	1.62	0.65
1:E:222:ASN:HB2	1:E:237:ASN:CB	2.26	0.65
1:F:43:TYR:CE2	1:F:70:GLU:CD	2.70	0.65
1:F:203:GLU:H	1:I:272:ARG:HG3	0.83	0.65
1:G:188:LEU:N	1:G:199:ARG:HG2	2.10	0.65
1:H:34:LYS:HG2	1:H:36:VAL:HA	1.78	0.65
1:H:43:TYR:CE2	1:H:70:GLU:CD	2.70	0.65
1:H:177:ILE:HG13	1:H:284:PHE:HA	1.77	0.65
1:I:177:ILE:HG13	1:I:284:PHE:HA	1.77	0.65
1:I:275:LYS:O	1:J:218:THR:CB	2.28	0.65
1:J:109:VAL:CB	1:J:322:ALA:HB2	2.26	0.65
1:J:177:ILE:HG13	1:J:284:PHE:HA	1.78	0.65
1:O:45:LEU:CD2	1:O:51:ASP:HB3	2.26	0.65
1:O:95:THR:HG22	1:O:136:ILE:HG21	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:110:LEU:HD13	1:A:126:TYR:OH	1.96	0.64
1:B:109:VAL:HG21	1:B:321:VAL:HG13	1.79	0.64
1:C:27:LYS:NZ	1:C:35:ARG:HE	1.96	0.64
1:C:308:ASN:HD21	1:G:241:LYS:HB2	1.62	0.64
1:D:143:LYS:HE3	1:D:145:TYR:CE2	2.33	0.64
1:D:208:ASP:HA	1:D:211:ILE:CD1	2.26	0.64
1:F:188:LEU:H	1:F:199:ARG:CG	2.08	0.64
1:G:27:LYS:HZ3	1:G:35:ARG:HH21	1.44	0.64
1:G:203:GLU:CB	1:J:198:GLU:HA	2.25	0.64
1:H:188:LEU:N	1:H:199:ARG:HG2	2.10	0.64
1:I:306:ILE:HD12	1:I:307:THR:H	1.61	0.64
1:J:283:ILE:HG22	1:J:285:ILE:HG23	1.78	0.64
1:K:168:ASN:HB3	1:L:71:GLN:CG	2.27	0.64
1:N:186:PHE:HD2	1:N:269:ILE:HD11	1.61	0.64
1:P:139:LYS:H	1:P:143:LYS:H	1.43	0.64
1:B:283:ILE:HG22	1:B:285:ILE:HG23	1.78	0.64
1:C:179:PHE:HB3	1:C:288:THR:CB	2.22	0.64
1:D:109:VAL:HG21	1:D:321:VAL:HG13	1.79	0.64
1:F:202:GLU:HG3	1:I:271:LYS:CD	2.27	0.64
1:G:27:LYS:NZ	1:G:35:ARG:HE	1.96	0.64
1:J:168:ASN:HB3	1:K:71:GLN:CG	2.27	0.64
1:K:82:THR:O	1:K:85:ILE:HB	1.97	0.64
1:L:82:THR:O	1:L:85:ILE:HB	1.97	0.64
1:M:110:LEU:HD13	1:M:126:TYR:OH	1.96	0.64
1:O:143:LYS:HE3	1:O:145:TYR:CE2	2.33	0.64
1:O:283:ILE:HG22	1:O:285:ILE:HG23	1.78	0.64
1:O:320:LYS:O	1:P:46:GLU:O	2.14	0.64
1:P:213:VAL:CG2	1:P:257:VAL:HG11	2.28	0.64
1:A:95:THR:HG22	1:A:136:ILE:HG21	1.78	0.64
1:A:225:LEU:HD22	1:B:300:TYR:CZ	2.20	0.64
1:B:110:LEU:HD13	1:B:126:TYR:OH	1.96	0.64
1:B:143:LYS:HE3	1:B:145:TYR:CE2	2.33	0.64
1:E:213:VAL:CG2	1:E:257:VAL:HG11	2.28	0.64
1:G:95:THR:HG22	1:G:136:ILE:HG21	1.79	0.64
1:G:179:PHE:HB3	1:G:288:THR:CB	2.22	0.64
1:H:283:ILE:HG22	1:H:285:ILE:HG23	1.78	0.64
1:I:34:LYS:HG2	1:I:36:VAL:HA	1.78	0.64
1:J:82:THR:O	1:J:85:ILE:HB	1.97	0.64
1:J:305:ILE:HG22	1:O:241:LYS:HZ1	1.60	0.64
1:M:43:TYR:CE2	1:M:70:GLU:CD	2.70	0.64
1:M:143:LYS:HE3	1:M:145:TYR:CE2	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:139:LYS:H	1:N:143:LYS:H	1.43	0.64
1:N:143:LYS:HE3	1:N:145:TYR:CE2	2.33	0.64
1:N:173:ASN:HD22	1:N:279:LEU:HD23	1.59	0.64
1:O:139:LYS:H	1:O:143:LYS:H	1.43	0.64
1:O:170:LYS:HZ2	1:P:81:LYS:HB3	1.61	0.64
1:A:82:THR:O	1:A:85:ILE:HB	1.97	0.64
1:A:229:GLU:OE1	1:F:309:ASN:O	2.13	0.64
1:B:82:THR:O	1:B:85:ILE:HB	1.97	0.64
1:B:245:GLU:O	1:F:74:GLU:C	2.36	0.64
1:C:82:THR:O	1:C:85:ILE:HB	1.97	0.64
1:D:27:LYS:NZ	1:D:35:ARG:HE	1.96	0.64
1:D:222:ASN:HB2	1:D:237:ASN:CB	2.26	0.64
1:F:143:LYS:HE3	1:F:145:TYR:CE2	2.33	0.64
1:F:222:ASN:HB2	1:F:237:ASN:CB	2.26	0.64
1:F:227:THR:O	1:G:300:TYR:CA	2.35	0.64
1:G:143:LYS:HE3	1:G:145:TYR:CE2	2.33	0.64
1:I:109:VAL:CB	1:I:322:ALA:HB2	2.26	0.64
1:K:165:GLU:CB	1:P:241:LYS:O	2.45	0.64
1:L:143:LYS:HE3	1:L:145:TYR:CE2	2.33	0.64
1:M:34:LYS:HG2	1:M:36:VAL:HA	1.78	0.64
1:M:56:SER:CB	1:M:70:GLU:HB3	2.26	0.64
1:O:27:LYS:NZ	1:O:35:ARG:HE	1.96	0.64
1:O:301:PRO:HG3	1:P:228:ASN:N	2.12	0.64
1:P:27:LYS:NZ	1:P:35:ARG:HE	1.96	0.64
1:A:45:LEU:HD22	1:A:58:LYS:HZ3	1.63	0.64
1:A:109:VAL:HG21	1:A:321:VAL:HG13	1.79	0.64
1:A:230:GLN:HA	1:F:308:ASN:OD1	1.97	0.64
1:C:58:LYS:HZ2	1:C:65:GLU:HG2	1.62	0.64
1:C:143:LYS:HE3	1:C:145:TYR:CE2	2.33	0.64
1:C:241:LYS:O	1:H:165:GLU:HA	1.97	0.64
1:D:82:THR:O	1:D:85:ILE:HB	1.97	0.64
1:D:110:LEU:HD22	1:D:126:TYR:CZ	2.33	0.64
1:F:27:LYS:NZ	1:F:35:ARG:HE	1.96	0.64
1:F:213:VAL:CG2	1:F:257:VAL:HG11	2.28	0.64
1:G:306:ILE:HD12	1:G:307:THR:H	1.61	0.64
1:I:82:THR:O	1:I:85:ILE:HB	1.97	0.64
1:I:143:LYS:HE3	1:I:145:TYR:CE2	2.33	0.64
1:J:73:VAL:HG21	1:N:240:MET:HE1	1.64	0.64
1:K:133:ASN:ND2	1:K:148:GLU:CA	2.59	0.64
1:M:82:THR:O	1:M:85:ILE:HB	1.97	0.64
1:N:82:THR:O	1:N:85:ILE:HB	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:301:PRO:HG3	1:O:228:ASN:N	2.12	0.64
1:O:37:ILE:HD11	1:O:312:TRP:CE2	2.33	0.64
1:O:110:LEU:HD22	1:O:126:TYR:CZ	2.33	0.64
1:P:37:ILE:HD11	1:P:312:TRP:CE2	2.33	0.64
1:P:143:LYS:HE3	1:P:145:TYR:CE2	2.33	0.64
1:A:143:LYS:HE3	1:A:145:TYR:CE2	2.33	0.64
1:A:213:VAL:CG2	1:A:257:VAL:HG11	2.28	0.64
1:A:228:ASN:N	1:B:301:PRO:HG3	2.12	0.64
1:B:228:ASN:N	1:C:301:PRO:HG3	2.12	0.64
1:C:49:TYR:O	1:D:323:VAL:HG21	1.98	0.64
1:C:110:LEU:HD22	1:C:126:TYR:CZ	2.33	0.64
1:G:110:LEU:HD22	1:G:126:TYR:CZ	2.33	0.64
1:G:222:ASN:HB2	1:G:237:ASN:CB	2.26	0.64
1:H:27:LYS:NZ	1:H:35:ARG:HE	1.96	0.64
1:H:284:PHE:O	1:H:306:ILE:HD13	1.98	0.64
1:J:34:LYS:HG2	1:J:36:VAL:HA	1.78	0.64
1:K:283:ILE:HG22	1:K:285:ILE:HG23	1.78	0.64
1:L:49:TYR:HE2	1:P:245:GLU:C	1.98	0.64
1:N:37:ILE:HD11	1:N:312:TRP:CE2	2.33	0.64
1:N:56:SER:CB	1:N:70:GLU:HB3	2.26	0.64
1:O:82:THR:O	1:O:85:ILE:HB	1.97	0.64
1:O:110:LEU:HD13	1:O:126:TYR:OH	1.96	0.64
1:O:213:VAL:CG2	1:O:257:VAL:HG11	2.28	0.64
1:P:110:LEU:HD22	1:P:126:TYR:CZ	2.33	0.64
1:A:27:LYS:NZ	1:A:35:ARG:HE	1.96	0.64
1:B:27:LYS:NZ	1:B:35:ARG:HE	1.96	0.64
1:B:49:TYR:O	1:C:323:VAL:HG21	1.97	0.64
1:C:245:GLU:CG	1:G:75:ASP:CA	2.66	0.64
1:D:247:ASP:O	1:H:52:ILE:CG2	2.45	0.64
1:D:247:ASP:C	1:H:52:ILE:HD12	2.18	0.64
1:E:143:LYS:HE3	1:E:145:TYR:CE2	2.33	0.64
1:E:284:PHE:O	1:E:306:ILE:HD13	1.98	0.64
1:F:7:GLU:HG3	1:F:326:TYR:OH	1.98	0.64
1:F:284:PHE:O	1:F:306:ILE:HD13	1.98	0.64
1:F:306:ILE:HD12	1:F:307:THR:H	1.61	0.64
1:G:224:ASN:HD22	1:H:275:LYS:NZ	1.76	0.64
1:G:284:PHE:O	1:G:306:ILE:HD13	1.98	0.64
1:H:222:ASN:HB2	1:H:237:ASN:CB	2.26	0.64
1:J:240:MET:CG	1:J:251:SER:HB2	2.28	0.64
1:K:240:MET:CG	1:K:251:SER:HB2	2.28	0.64
1:L:52:ILE:CD1	1:P:248:THR:HG23	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:213:VAL:CG2	1:L:257:VAL:HG11	2.28	0.64
1:L:240:MET:CG	1:L:251:SER:HB2	2.28	0.64
1:M:301:PRO:HG3	1:N:228:ASN:N	2.12	0.64
1:O:56:SER:CB	1:O:70:GLU:HB3	2.26	0.64
1:O:277:ASP:OD2	1:P:224:ASN:CA	2.44	0.64
1:P:82:THR:O	1:P:85:ILE:HB	1.97	0.64
1:B:245:GLU:O	1:F:74:GLU:HA	1.97	0.64
1:C:173:ASN:HD22	1:C:279:LEU:HD23	1.59	0.64
1:C:228:ASN:N	1:D:301:PRO:HG3	2.12	0.64
1:F:109:VAL:HG21	1:F:321:VAL:HG13	1.79	0.64
1:H:37:ILE:HD11	1:H:312:TRP:CE2	2.33	0.64
1:H:143:LYS:HE3	1:H:145:TYR:CE2	2.33	0.64
1:H:213:VAL:CG2	1:H:257:VAL:HG11	2.28	0.64
1:I:240:MET:CG	1:I:251:SER:HB2	2.28	0.64
1:I:283:ILE:HG22	1:I:285:ILE:HG23	1.78	0.64
1:K:188:LEU:H	1:K:199:ARG:CG	2.07	0.64
1:L:186:PHE:HD2	1:L:269:ILE:HD11	1.61	0.64
1:L:200:PHE:HD1	1:L:272:ARG:HD2	1.59	0.64
1:L:283:ILE:HG22	1:L:285:ILE:HG23	1.78	0.64
1:M:37:ILE:HD11	1:M:312:TRP:CE2	2.33	0.64
1:M:109:VAL:HG21	1:M:321:VAL:HG13	1.79	0.64
1:M:240:MET:CG	1:M:251:SER:HB2	2.28	0.64
1:N:34:LYS:HG2	1:N:36:VAL:HA	1.78	0.64
1:N:240:MET:CG	1:N:251:SER:HB2	2.28	0.64
1:O:109:VAL:HG21	1:O:321:VAL:HG13	1.79	0.64
1:O:186:PHE:HD2	1:O:269:ILE:HD11	1.61	0.64
1:O:240:MET:CG	1:O:251:SER:HB2	2.28	0.64
1:O:323:VAL:HG21	1:P:49:TYR:O	1.98	0.64
1:P:95:THR:HG22	1:P:136:ILE:HG21	1.78	0.64
1:P:240:MET:CG	1:P:251:SER:HB2	2.28	0.64
1:P:283:ILE:HG22	1:P:285:ILE:HG23	1.78	0.64
1:B:213:VAL:CG2	1:B:257:VAL:HG11	2.28	0.64
1:D:37:ILE:HD11	1:D:312:TRP:CE2	2.33	0.64
1:D:109:VAL:CB	1:D:322:ALA:HB2	2.26	0.64
1:F:34:LYS:H	1:F:36:VAL:N	1.96	0.64
1:H:179:PHE:HB3	1:H:288:THR:CB	2.22	0.64
1:I:7:GLU:HG3	1:I:326:TYR:OH	1.98	0.64
1:I:323:VAL:O	1:J:47:ASP:C	2.30	0.64
1:J:44:ASN:CB	1:J:64:LYS:HZ1	2.11	0.64
1:J:52:ILE:HG23	1:N:248:THR:CA	2.23	0.64
1:K:275:LYS:NZ	1:L:224:ASN:HD22	1.76	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:95:THR:HG22	1:M:136:ILE:HG21	1.78	0.64
1:O:52:ILE:H	1:O:74:GLU:CG	2.06	0.64
1:P:56:SER:CB	1:P:70:GLU:HB3	2.26	0.64
1:A:186:PHE:HD2	1:A:269:ILE:HD11	1.61	0.64
1:A:254:ILE:HG13	1:A:255:LYS:N	2.13	0.64
1:B:45:LEU:HD22	1:B:58:LYS:HZ3	1.63	0.64
1:C:7:GLU:HG3	1:C:326:TYR:OH	1.98	0.64
1:C:246:ILE:HD11	1:G:49:TYR:CA	2.28	0.64
1:E:7:GLU:HG3	1:E:326:TYR:OH	1.98	0.64
1:E:188:LEU:H	1:E:199:ARG:CG	2.07	0.64
1:G:7:GLU:HG3	1:G:326:TYR:OH	1.98	0.64
1:G:109:VAL:HG21	1:G:321:VAL:HG13	1.79	0.64
1:H:82:THR:O	1:H:85:ILE:HB	1.97	0.64
1:I:27:LYS:NZ	1:I:35:ARG:HE	1.96	0.64
1:I:213:VAL:CG2	1:I:257:VAL:HG11	2.28	0.64
1:J:213:VAL:CG2	1:J:257:VAL:HG11	2.28	0.64
1:K:34:LYS:HG2	1:K:36:VAL:HA	1.78	0.64
1:K:95:THR:HG22	1:K:136:ILE:HG21	1.78	0.64
1:K:143:LYS:HE3	1:K:145:TYR:CE2	2.33	0.64
1:K:186:PHE:HD2	1:K:269:ILE:HD11	1.61	0.64
1:K:300:TYR:CA	1:L:227:THR:O	2.35	0.64
1:N:105:LYS:HZ2	1:N:148:GLU:HB3	1.63	0.64
1:N:109:VAL:HG21	1:N:321:VAL:HG13	1.79	0.64
1:N:110:LEU:HD13	1:N:126:TYR:OH	1.96	0.64
1:N:110:LEU:HD22	1:N:126:TYR:CZ	2.33	0.64
1:P:7:GLU:HG3	1:P:326:TYR:OH	1.98	0.64
1:P:133:ASN:ND2	1:P:148:GLU:CA	2.59	0.64
1:A:46:GLU:HA	1:B:324:ALA:HB1	1.68	0.63
1:A:49:TYR:O	1:B:323:VAL:HG21	1.98	0.63
1:B:179:PHE:HB3	1:B:288:THR:CB	2.22	0.63
1:B:225:LEU:HD22	1:C:300:TYR:CZ	2.20	0.63
1:C:240:MET:CA	1:H:166:GLN:HG2	2.24	0.63
1:D:213:VAL:CG2	1:D:257:VAL:HG11	2.28	0.63
1:E:27:LYS:NZ	1:E:35:ARG:HE	1.96	0.63
1:E:110:LEU:HD22	1:E:126:TYR:CZ	2.33	0.63
1:E:283:ILE:HG22	1:E:285:ILE:HG23	1.78	0.63
1:F:201:ILE:HG13	1:I:272:ARG:HH11	1.53	0.63
1:H:272:ARG:HG3	1:K:202:GLU:CA	2.27	0.63
1:I:284:PHE:O	1:I:306:ILE:HD13	1.98	0.63
1:K:75:ASP:N	1:O:245:GLU:CG	2.56	0.63
1:M:36:VAL:HG11	1:M:96:GLN:HE21	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:133:ASN:ND2	1:M:148:GLU:CA	2.59	0.63
1:M:320:LYS:CE	1:N:50:ILE:CG1	1.92	0.63
1:N:36:VAL:HG11	1:N:96:GLN:HE21	1.63	0.63
1:O:7:GLU:HG3	1:O:326:TYR:OH	1.98	0.63
1:O:324:ALA:HB1	1:P:46:GLU:HA	1.68	0.63
1:A:41:LYS:HE2	1:B:170:LYS:HB3	1.80	0.63
1:A:110:LEU:HD22	1:A:126:TYR:CZ	2.33	0.63
1:C:37:ILE:HD11	1:C:312:TRP:CE2	2.33	0.63
1:C:229:GLU:CD	1:H:308:ASN:O	2.28	0.63
1:E:109:VAL:HG21	1:E:321:VAL:HG13	1.79	0.63
1:H:7:GLU:HG3	1:H:326:TYR:OH	1.98	0.63
1:J:300:TYR:CA	1:K:227:THR:O	2.35	0.63
1:K:34:LYS:H	1:K:36:VAL:N	1.96	0.63
1:K:213:VAL:CG2	1:K:257:VAL:HG11	2.28	0.63
1:L:34:LYS:HG2	1:L:36:VAL:HA	1.78	0.63
1:L:37:ILE:HD11	1:L:312:TRP:CE2	2.33	0.63
1:L:109:VAL:HG21	1:L:321:VAL:HG13	1.79	0.63
1:L:188:LEU:H	1:L:199:ARG:CG	2.08	0.63
1:M:7:GLU:HG3	1:M:326:TYR:OH	1.98	0.63
1:M:27:LYS:NZ	1:M:35:ARG:HE	1.96	0.63
1:M:213:VAL:CG2	1:M:257:VAL:HG11	2.28	0.63
1:N:254:ILE:HG13	1:N:255:LYS:N	2.13	0.63
1:O:34:LYS:HG2	1:O:36:VAL:HA	1.78	0.63
1:O:320:LYS:CE	1:P:50:ILE:CG1	1.92	0.63
1:A:246:ILE:C	1:E:50:ILE:CD1	2.67	0.63
1:B:37:ILE:HD11	1:B:312:TRP:CE2	2.33	0.63
1:B:41:LYS:HE2	1:C:170:LYS:HB3	1.80	0.63
1:C:213:VAL:CG2	1:C:257:VAL:HG11	2.28	0.63
1:D:7:GLU:HG3	1:D:326:TYR:OH	1.98	0.63
1:D:58:LYS:CE	1:D:65:GLU:HG2	2.29	0.63
1:D:254:ILE:HG13	1:D:255:LYS:N	2.13	0.63
1:E:37:ILE:HD11	1:E:312:TRP:CE2	2.33	0.63
1:E:219:ASP:CG	1:F:277:ASP:CB	2.61	0.63
1:E:232:GLU:O	1:E:233:SER:HB2	1.99	0.63
1:F:240:MET:CG	1:F:251:SER:HB2	2.28	0.63
1:G:37:ILE:HD11	1:G:312:TRP:CE2	2.33	0.63
1:G:272:ARG:HB2	1:J:202:GLU:HG2	1.79	0.63
1:H:133:ASN:ND2	1:H:148:GLU:CA	2.59	0.63
1:I:254:ILE:HG13	1:I:255:LYS:N	2.13	0.63
1:J:143:LYS:HE3	1:J:145:TYR:CE2	2.33	0.63
1:J:186:PHE:HD2	1:J:269:ILE:HD11	1.61	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:109:VAL:HG21	1:K:321:VAL:HG13	1.79	0.63
1:L:27:LYS:HZ3	1:L:35:ARG:HH21	1.46	0.63
1:M:254:ILE:HG13	1:M:255:LYS:N	2.13	0.63
1:N:7:GLU:HG3	1:N:326:TYR:OH	1.98	0.63
1:N:27:LYS:NZ	1:N:35:ARG:HE	1.96	0.63
1:O:36:VAL:HG11	1:O:96:GLN:HE21	1.63	0.63
1:A:37:ILE:HD11	1:A:312:TRP:CE2	2.33	0.63
1:A:123:LYS:HZ3	1:A:127:ARG:NH1	1.96	0.63
1:A:240:MET:CG	1:A:251:SER:HB2	2.28	0.63
1:B:58:LYS:CE	1:B:65:GLU:HG2	2.29	0.63
1:B:110:LEU:HD22	1:B:126:TYR:CZ	2.33	0.63
1:C:41:LYS:HE2	1:D:170:LYS:HB3	1.80	0.63
1:C:58:LYS:CE	1:C:65:GLU:HG2	2.29	0.63
1:D:52:ILE:H	1:D:74:GLU:CG	2.06	0.63
1:F:37:ILE:HD11	1:F:312:TRP:CE2	2.33	0.63
1:F:110:LEU:HD22	1:F:126:TYR:CZ	2.33	0.63
1:G:82:THR:O	1:G:85:ILE:HB	1.97	0.63
1:G:95:THR:CG2	1:G:136:ILE:HD13	2.23	0.63
1:G:105:LYS:HZ2	1:G:148:GLU:HB3	1.64	0.63
1:G:202:GLU:HG2	1:J:272:ARG:HB2	1.79	0.63
1:G:250:SER:HA	1:G:252:THR:N	2.14	0.63
1:H:44:ASN:CB	1:H:64:LYS:HZ1	2.11	0.63
1:J:232:GLU:O	1:J:233:SER:HB2	1.99	0.63
1:J:254:ILE:HG13	1:J:255:LYS:N	2.13	0.63
1:J:284:PHE:O	1:J:306:ILE:HD13	1.98	0.63
1:J:303:ASN:CB	1:K:226:ILE:H	1.97	0.63
1:K:37:ILE:HD11	1:K:312:TRP:CE2	2.33	0.63
1:M:219:ASP:C	1:M:224:ASN:HB2	2.19	0.63
1:N:250:SER:HA	1:N:252:THR:N	2.14	0.63
1:N:323:VAL:HG21	1:O:49:TYR:O	1.97	0.63
1:A:58:LYS:CE	1:A:65:GLU:HG2	2.29	0.63
1:A:250:SER:HA	1:A:252:THR:N	2.14	0.63
1:B:254:ILE:HG13	1:B:255:LYS:N	2.13	0.63
1:C:224:ASN:CA	1:D:277:ASP:OD2	2.44	0.63
1:D:54:GLY:HA3	1:D:56:SER:H	1.64	0.63
1:D:219:ASP:C	1:D:224:ASN:HB2	2.19	0.63
1:D:250:SER:HA	1:D:252:THR:N	2.14	0.63
1:E:218:THR:O	1:F:275:LYS:HG2	1.99	0.63
1:F:82:THR:O	1:F:85:ILE:HB	1.97	0.63
1:G:213:VAL:CG2	1:G:257:VAL:HG11	2.28	0.63
1:G:227:THR:O	1:H:300:TYR:CA	2.35	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:240:MET:CG	1:H:251:SER:HB2	2.28	0.63
1:J:27:LYS:NZ	1:J:35:ARG:HE	1.96	0.63
1:J:109:VAL:HG21	1:J:321:VAL:HG13	1.79	0.63
1:J:275:LYS:HG2	1:K:218:THR:O	1.99	0.63
1:K:109:VAL:HG22	1:K:318:LEU:HB3	1.81	0.63
1:K:254:ILE:HG13	1:K:255:LYS:N	2.13	0.63
1:L:49:TYR:CE2	1:P:246:ILE:N	2.64	0.63
1:L:109:VAL:HG22	1:L:318:LEU:HB3	1.81	0.63
1:O:219:ASP:C	1:O:224:ASN:HB2	2.19	0.63
1:P:34:LYS:HG2	1:P:36:VAL:HA	1.78	0.63
1:P:284:PHE:CD2	1:P:296:ILE:HG21	2.34	0.63
1:B:7:GLU:HG3	1:B:326:TYR:OH	1.98	0.63
1:B:219:ASP:C	1:B:224:ASN:HB2	2.19	0.63
1:B:240:MET:CG	1:B:251:SER:HB2	2.28	0.63
1:E:109:VAL:HG22	1:E:318:LEU:HB3	1.81	0.63
1:F:232:GLU:O	1:F:233:SER:HB2	1.99	0.63
1:G:34:LYS:H	1:G:36:VAL:N	1.96	0.63
1:H:105:LYS:HZ2	1:H:148:GLU:HB3	1.64	0.63
1:H:272:ARG:HG3	1:K:203:GLU:H	0.84	0.63
1:I:186:PHE:HD2	1:I:269:ILE:HD11	1.61	0.63
1:J:82:THR:CB	1:J:84:LEU:HD23	2.29	0.63
1:K:52:ILE:HD13	1:O:248:THR:HG23	1.79	0.63
1:L:254:ILE:HG13	1:L:255:LYS:N	2.13	0.63
1:N:284:PHE:CD2	1:N:296:ILE:HG21	2.34	0.63
1:O:284:PHE:CD2	1:O:296:ILE:HG21	2.34	0.63
1:P:34:LYS:H	1:P:36:VAL:N	1.96	0.63
1:P:186:PHE:HD2	1:P:269:ILE:HD11	1.61	0.63
1:C:225:LEU:HD22	1:D:300:TYR:CZ	2.20	0.63
1:F:109:VAL:HG22	1:F:318:LEU:HB3	1.81	0.63
1:H:109:VAL:HG21	1:H:321:VAL:HG13	1.79	0.63
1:H:110:LEU:HD22	1:H:126:TYR:CZ	2.33	0.63
1:I:34:LYS:H	1:I:36:VAL:N	1.96	0.63
1:I:37:ILE:HD11	1:I:312:TRP:CE2	2.33	0.63
1:I:110:LEU:HD22	1:I:126:TYR:CZ	2.33	0.63
1:I:300:TYR:CA	1:J:227:THR:O	2.35	0.63
1:J:109:VAL:HG22	1:J:318:LEU:HB3	1.81	0.63
1:K:27:LYS:NZ	1:K:35:ARG:HE	1.96	0.63
1:K:82:THR:CB	1:K:84:LEU:HD23	2.29	0.63
1:K:284:PHE:O	1:K:306:ILE:HD13	1.98	0.63
1:L:34:LYS:H	1:L:36:VAL:N	1.96	0.63
1:L:68:ILE:CD1	1:L:92:THR:HB	2.10	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:82:THR:CB	1:L:84:LEU:HD23	2.29	0.63
1:L:284:PHE:O	1:L:306:ILE:HD13	1.98	0.63
1:M:323:VAL:HG21	1:N:49:TYR:O	1.97	0.63
1:N:213:VAL:CG2	1:N:257:VAL:HG11	2.28	0.63
1:O:58:LYS:CE	1:O:65:GLU:HG2	2.29	0.63
1:O:95:THR:CG2	1:O:136:ILE:HD13	2.22	0.63
1:P:58:LYS:CE	1:P:65:GLU:HG2	2.29	0.63
1:P:250:SER:HA	1:P:252:THR:N	2.14	0.63
1:A:179:PHE:HB3	1:A:288:THR:CB	2.22	0.63
1:A:284:PHE:CD2	1:A:296:ILE:HG21	2.34	0.63
1:A:284:PHE:O	1:A:306:ILE:HD13	1.98	0.63
1:B:250:SER:HA	1:B:252:THR:N	2.14	0.63
1:C:95:THR:HG22	1:C:136:ILE:HG21	1.78	0.63
1:C:284:PHE:CD2	1:C:296:ILE:HG21	2.34	0.63
1:D:240:MET:CG	1:D:251:SER:HB2	2.28	0.63
1:D:284:PHE:CD2	1:D:296:ILE:HG21	2.34	0.63
1:E:240:MET:CG	1:E:251:SER:HB2	2.28	0.63
1:I:109:VAL:HG21	1:I:321:VAL:HG13	1.79	0.63
1:I:232:GLU:O	1:I:233:SER:HB2	1.99	0.63
1:J:7:GLU:HG3	1:J:326:TYR:OH	1.98	0.63
1:J:37:ILE:HD11	1:J:312:TRP:CE2	2.33	0.63
1:J:110:LEU:HD22	1:J:126:TYR:CZ	2.33	0.63
1:J:219:ASP:C	1:J:224:ASN:HB2	2.19	0.63
1:J:250:SER:HA	1:J:252:THR:N	2.14	0.63
1:K:232:GLU:O	1:K:233:SER:HB2	1.99	0.63
1:K:277:ASP:HB3	1:L:219:ASP:C	2.11	0.63
1:K:308:ASN:ND2	1:P:231:ALA:C	2.45	0.63
1:L:284:PHE:CD2	1:L:296:ILE:HG21	2.34	0.63
1:M:110:LEU:HD22	1:M:126:TYR:CZ	2.33	0.63
1:M:284:PHE:CD2	1:M:296:ILE:HG21	2.34	0.63
1:N:58:LYS:CE	1:N:65:GLU:HG2	2.29	0.63
1:O:33:ILE:CG1	1:O:312:TRP:HE1	2.12	0.63
1:O:173:ASN:HD22	1:O:279:LEU:HD23	1.59	0.63
1:P:36:VAL:HG11	1:P:96:GLN:HE21	1.63	0.63
1:A:133:ASN:ND2	1:A:148:GLU:CA	2.59	0.63
1:A:230:GLN:C	1:F:308:ASN:ND2	2.53	0.63
1:B:123:LYS:HZ2	1:B:127:ARG:NH1	1.97	0.63
1:B:284:PHE:CD2	1:B:296:ILE:HG21	2.34	0.63
1:C:240:MET:CG	1:C:251:SER:HB2	2.28	0.63
1:C:247:ASP:O	1:G:52:ILE:HD12	1.99	0.63
1:E:82:THR:O	1:E:85:ILE:HB	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:258:LYS:NZ	1:F:295:GLN:HG3	2.14	0.63
1:G:109:VAL:HG22	1:G:318:LEU:HB3	1.81	0.63
1:H:34:LYS:H	1:H:36:VAL:N	1.96	0.63
1:K:284:PHE:CD2	1:K:296:ILE:HG21	2.34	0.63
1:L:7:GLU:HG3	1:L:326:TYR:OH	1.98	0.63
1:L:27:LYS:NZ	1:L:35:ARG:HE	1.96	0.63
1:L:110:LEU:HD22	1:L:126:TYR:CZ	2.33	0.63
1:L:219:ASP:C	1:L:224:ASN:HB2	2.19	0.63
1:M:58:LYS:CE	1:M:65:GLU:HG2	2.29	0.63
1:M:82:THR:CB	1:M:84:LEU:HD23	2.29	0.63
1:M:170:LYS:HB3	1:N:41:LYS:HE2	1.80	0.63
1:M:323:VAL:CG2	1:N:47:ASP:C	2.57	0.63
1:N:33:ILE:CG1	1:N:312:TRP:HE1	2.12	0.63
1:N:170:LYS:HB3	1:O:41:LYS:HE2	1.80	0.63
1:O:258:LYS:NZ	1:O:295:GLN:HG3	2.14	0.63
1:P:254:ILE:HG13	1:P:255:LYS:N	2.13	0.63
1:A:33:ILE:CG1	1:A:312:TRP:HE1	2.12	0.62
1:B:54:GLY:HA3	1:B:56:SER:H	1.64	0.62
1:B:224:ASN:CA	1:C:277:ASP:OD2	2.44	0.62
1:B:284:PHE:O	1:B:306:ILE:HD13	1.98	0.62
1:D:245:GLU:O	1:H:74:GLU:CA	2.45	0.62
1:F:218:THR:CB	1:G:275:LYS:O	2.28	0.62
1:F:219:ASP:C	1:F:224:ASN:HB2	2.19	0.62
1:F:250:SER:HA	1:F:252:THR:N	2.14	0.62
1:H:202:GLU:HA	1:K:272:ARG:CB	2.28	0.62
1:I:109:VAL:HG22	1:I:318:LEU:HB3	1.81	0.62
1:I:133:ASN:ND2	1:I:148:GLU:CA	2.59	0.62
1:I:258:LYS:NZ	1:I:295:GLN:HG3	2.14	0.62
1:K:320:LYS:HG2	1:L:50:ILE:HG12	1.80	0.62
1:N:82:THR:CB	1:N:84:LEU:HD23	2.29	0.62
1:O:34:LYS:H	1:O:36:VAL:N	1.96	0.62
1:O:170:LYS:HB3	1:P:41:LYS:HE2	1.80	0.62
1:P:284:PHE:O	1:P:306:ILE:HD13	1.98	0.62
1:B:52:ILE:H	1:B:74:GLU:CG	2.06	0.62
1:C:34:LYS:H	1:C:36:VAL:N	1.96	0.62
1:E:133:ASN:ND2	1:E:148:GLU:CA	2.59	0.62
1:F:33:ILE:CG1	1:F:312:TRP:HE1	2.12	0.62
1:F:105:LYS:HZ2	1:F:148:GLU:HB3	1.64	0.62
1:F:203:GLU:OE1	1:I:274:PHE:CE2	2.49	0.62
1:G:58:LYS:CE	1:G:65:GLU:HG2	2.29	0.62
1:G:61:LEU:HB3	1:G:66:TYR:CD1	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:95:THR:HG22	1:H:136:ILE:HG21	1.78	0.62
1:H:274:PHE:HD1	1:K:204:HIS:CE1	2.13	0.62
1:J:277:ASP:HB3	1:K:219:ASP:N	2.05	0.62
1:K:74:GLU:HA	1:O:245:GLU:O	1.98	0.62
1:K:166:GLN:O	1:P:241:LYS:CA	2.37	0.62
1:K:231:ALA:CB	1:O:308:ASN:CG	2.63	0.62
1:L:61:LEU:HB3	1:L:66:TYR:CD1	2.34	0.62
1:L:258:LYS:NZ	1:L:295:GLN:HG3	2.14	0.62
1:M:54:GLY:HA3	1:M:56:SER:H	1.64	0.62
1:N:133:ASN:ND2	1:N:148:GLU:CA	2.59	0.62
1:A:219:ASP:C	1:A:224:ASN:HB2	2.19	0.62
1:C:219:ASP:C	1:C:224:ASN:HB2	2.19	0.62
1:C:284:PHE:O	1:C:306:ILE:HD13	1.98	0.62
1:D:258:LYS:NZ	1:D:295:GLN:HG3	2.15	0.62
1:E:33:ILE:CG1	1:E:312:TRP:HE1	2.12	0.62
1:E:106:VAL:CG2	1:E:147:PHE:CZ	2.82	0.62
1:F:179:PHE:HB3	1:F:288:THR:CB	2.22	0.62
1:G:218:THR:O	1:H:275:LYS:HG2	1.99	0.62
1:G:240:MET:CG	1:G:251:SER:HB2	2.28	0.62
1:H:109:VAL:HG22	1:H:318:LEU:HB3	1.81	0.62
1:H:258:LYS:NZ	1:H:295:GLN:HG3	2.14	0.62
1:I:61:LEU:HB3	1:I:66:TYR:CD1	2.34	0.62
1:I:277:ASP:HB3	1:J:219:ASP:N	2.05	0.62
1:J:284:PHE:CD2	1:J:296:ILE:HG21	2.34	0.62
1:K:275:LYS:HG2	1:L:218:THR:O	1.99	0.62
1:L:188:LEU:N	1:L:199:ARG:HG2	2.10	0.62
1:M:131:LYS:C	1:M:149:ILE:HD11	2.20	0.62
1:M:258:LYS:NZ	1:M:295:GLN:HG3	2.15	0.62
1:O:82:THR:CB	1:O:84:LEU:HD23	2.29	0.62
1:O:222:ASN:HB2	1:O:237:ASN:H	1.64	0.62
1:O:254:ILE:HG13	1:O:255:LYS:N	2.13	0.62
1:O:284:PHE:O	1:O:306:ILE:HD13	1.98	0.62
1:P:95:THR:CG2	1:P:136:ILE:HD13	2.22	0.62
1:A:36:VAL:HG11	1:A:96:GLN:HE21	1.63	0.62
1:B:34:LYS:H	1:B:36:VAL:N	1.96	0.62
1:B:231:ALA:C	1:G:308:ASN:ND2	2.52	0.62
1:B:258:LYS:NZ	1:B:295:GLN:HG3	2.14	0.62
1:C:250:SER:HA	1:C:252:THR:N	2.14	0.62
1:D:131:LYS:C	1:D:149:ILE:HD11	2.20	0.62
1:F:268:LEU:HD22	1:I:271:LYS:HE2	1.82	0.62
1:G:33:ILE:CG1	1:G:312:TRP:HE1	2.12	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:106:VAL:CG2	1:G:147:PHE:CZ	2.82	0.62
1:H:250:SER:HA	1:H:252:THR:N	2.14	0.62
1:J:61:LEU:HB3	1:J:66:TYR:CD1	2.35	0.62
1:J:320:LYS:HG2	1:K:50:ILE:HG12	1.80	0.62
1:J:321:VAL:N	1:K:49:TYR:HD1	1.97	0.62
1:K:110:LEU:HD22	1:K:126:TYR:CZ	2.33	0.62
1:K:278:GLN:HB3	1:L:218:THR:OG1	1.87	0.62
1:M:250:SER:HA	1:M:252:THR:N	2.14	0.62
1:O:61:LEU:HB3	1:O:66:TYR:CD1	2.34	0.62
1:O:320:LYS:CG	1:P:49:TYR:C	2.21	0.62
1:P:234:ALA:HB3	1:P:235:LEU:HD23	1.82	0.62
1:A:34:LYS:H	1:A:36:VAL:N	1.96	0.62
1:C:246:ILE:HD11	1:G:49:TYR:HA	1.80	0.62
1:C:254:ILE:HG13	1:C:255:LYS:N	2.13	0.62
1:D:33:ILE:CG1	1:D:312:TRP:HE1	2.12	0.62
1:D:234:ALA:HB3	1:D:235:LEU:HD23	1.82	0.62
1:E:34:LYS:H	1:E:36:VAL:N	1.96	0.62
1:E:219:ASP:CB	1:F:277:ASP:CB	2.65	0.62
1:G:49:TYR:HD1	1:H:321:VAL:N	1.97	0.62
1:G:50:ILE:HG12	1:H:320:LYS:HG2	1.80	0.62
1:H:232:GLU:O	1:H:233:SER:HB2	1.99	0.62
1:H:274:PHE:CE2	1:K:203:GLU:OE1	2.50	0.62
1:I:43:TYR:CE2	1:I:67:LEU:CB	2.81	0.62
1:I:58:LYS:CE	1:I:65:GLU:HG2	2.29	0.62
1:I:284:PHE:CD2	1:I:296:ILE:HG21	2.34	0.62
1:J:58:LYS:CE	1:J:65:GLU:HG2	2.29	0.62
1:K:7:GLU:HG3	1:K:326:TYR:OH	1.98	0.62
1:M:109:VAL:CB	1:M:322:ALA:HB2	2.26	0.62
1:N:61:LEU:HB3	1:N:66:TYR:CD1	2.34	0.62
1:N:277:ASP:OD2	1:O:224:ASN:CA	2.44	0.62
1:N:284:PHE:O	1:N:306:ILE:HD13	1.98	0.62
1:P:82:THR:CB	1:P:84:LEU:HD23	2.29	0.62
1:A:43:TYR:CE2	1:A:67:LEU:CB	2.80	0.62
1:B:109:VAL:CB	1:B:322:ALA:HB2	2.26	0.62
1:C:109:VAL:CB	1:C:322:ALA:HB2	2.26	0.62
1:C:131:LYS:C	1:C:149:ILE:HD11	2.20	0.62
1:C:248:THR:HG23	1:G:52:ILE:HD12	1.82	0.62
1:D:284:PHE:O	1:D:306:ILE:HD13	1.98	0.62
1:E:61:LEU:HB3	1:E:66:TYR:CD1	2.34	0.62
1:F:43:TYR:CE2	1:F:67:LEU:CB	2.80	0.62
1:F:58:LYS:CE	1:F:65:GLU:HG2	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:58:LYS:HE3	1:F:65:GLU:HG2	1.82	0.62
1:F:61:LEU:HB3	1:F:66:TYR:CD1	2.34	0.62
1:G:271:LYS:HE3	1:J:202:GLU:CG	2.24	0.62
1:H:284:PHE:CD2	1:H:296:ILE:HG21	2.34	0.62
1:I:138:VAL:HB	1:I:143:LYS:HB3	1.82	0.62
1:J:33:ILE:CG1	1:J:312:TRP:HE1	2.12	0.62
1:J:34:LYS:H	1:J:36:VAL:N	1.96	0.62
1:K:138:VAL:HB	1:K:143:LYS:HB3	1.82	0.62
1:K:258:LYS:NZ	1:K:295:GLN:HG3	2.15	0.62
1:K:321:VAL:N	1:L:49:TYR:HD1	1.97	0.62
1:L:138:VAL:HB	1:L:143:LYS:HB3	1.82	0.62
1:M:61:LEU:HB3	1:M:66:TYR:CD1	2.34	0.62
1:M:232:GLU:O	1:M:233:SER:HB2	1.99	0.62
1:P:33:ILE:CG1	1:P:312:TRP:HE1	2.12	0.62
1:A:7:GLU:HG3	1:A:326:TYR:OH	1.98	0.62
1:A:109:VAL:CB	1:A:322:ALA:HB2	2.26	0.62
1:B:231:ALA:CB	1:G:307:THR:HA	2.29	0.62
1:B:246:ILE:N	1:F:50:ILE:O	2.33	0.62
1:C:279:LEU:HD13	1:C:282:LEU:HD21	1.82	0.62
1:D:58:LYS:HE3	1:D:65:GLU:HG2	1.82	0.62
1:E:49:TYR:HD1	1:F:321:VAL:N	1.97	0.62
1:E:58:LYS:HE3	1:E:65:GLU:HG2	1.82	0.62
1:E:279:LEU:HD13	1:E:282:LEU:HD21	1.82	0.62
1:F:50:ILE:HG12	1:G:320:LYS:HG2	1.80	0.62
1:F:218:THR:O	1:G:275:LYS:HG2	1.99	0.62
1:G:284:PHE:CD2	1:G:296:ILE:HG21	2.34	0.62
1:H:54:GLY:HA3	1:H:56:SER:H	1.64	0.62
1:H:58:LYS:CE	1:H:65:GLU:HG2	2.29	0.62
1:I:52:ILE:CG1	1:M:247:ASP:O	2.47	0.62
1:I:105:LYS:HZ2	1:I:148:GLU:HB3	1.65	0.62
1:I:320:LYS:HG2	1:J:50:ILE:HG12	1.80	0.62
1:J:138:VAL:HB	1:J:143:LYS:HB3	1.82	0.62
1:J:258:LYS:NZ	1:J:295:GLN:HG3	2.14	0.62
1:J:279:LEU:HD13	1:J:282:LEU:HD21	1.82	0.62
1:K:33:ILE:CG1	1:K:312:TRP:HE1	2.12	0.62
1:K:58:LYS:CE	1:K:65:GLU:HG2	2.29	0.62
1:K:78:GLU:OE1	1:O:245:GLU:OE2	2.17	0.62
1:K:188:LEU:N	1:K:199:ARG:HG2	2.10	0.62
1:L:250:SER:HA	1:L:252:THR:N	2.14	0.62
1:M:138:VAL:HG21	1:M:145:TYR:HE2	1.65	0.62
1:N:95:THR:CG2	1:N:136:ILE:HD13	2.22	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:131:LYS:C	1:N:149:ILE:HD11	2.20	0.62
1:P:58:LYS:HE3	1:P:65:GLU:HG2	1.82	0.62
1:P:61:LEU:HB3	1:P:66:TYR:CD1	2.34	0.62
1:B:33:ILE:CG1	1:B:312:TRP:HE1	2.12	0.62
1:B:131:LYS:C	1:B:149:ILE:HD11	2.20	0.62
1:D:133:ASN:ND2	1:D:148:GLU:CA	2.59	0.62
1:E:58:LYS:CE	1:E:65:GLU:HG2	2.29	0.62
1:E:250:SER:HA	1:E:252:THR:N	2.14	0.62
1:F:254:ILE:HG13	1:F:255:LYS:N	2.13	0.62
1:G:58:LYS:HE3	1:G:65:GLU:HG2	1.82	0.62
1:H:138:VAL:HG21	1:H:145:TYR:HE2	1.65	0.62
1:H:219:ASP:C	1:H:224:ASN:HB2	2.19	0.62
1:I:58:LYS:HE3	1:I:65:GLU:HG2	1.82	0.62
1:J:58:LYS:HE3	1:J:65:GLU:HG2	1.82	0.62
1:L:36:VAL:HG11	1:L:96:GLN:HE21	1.63	0.62
1:N:138:VAL:HG21	1:N:145:TYR:HE2	1.65	0.62
1:O:58:LYS:HE3	1:O:65:GLU:HG2	1.82	0.62
1:O:250:SER:HA	1:O:252:THR:N	2.14	0.62
1:O:279:LEU:HD13	1:O:282:LEU:HD21	1.82	0.62
1:P:109:VAL:HG21	1:P:321:VAL:HG13	1.79	0.62
1:P:219:ASP:C	1:P:224:ASN:HB2	2.19	0.62
1:A:232:GLU:O	1:A:233:SER:HB2	1.99	0.62
1:B:227:THR:CG2	1:C:301:PRO:HD3	2.29	0.62
1:C:123:LYS:NZ	1:C:127:ARG:NH1	2.48	0.62
1:C:234:ALA:HB3	1:C:235:LEU:HD23	1.82	0.62
1:D:34:LYS:H	1:D:36:VAL:N	1.96	0.62
1:D:138:VAL:HB	1:D:143:LYS:HB3	1.82	0.62
1:D:232:GLU:O	1:D:233:SER:HB2	1.99	0.62
1:F:45:LEU:HD22	1:F:58:LYS:HZ3	1.64	0.62
1:F:105:LYS:CD	1:F:148:GLU:HB2	2.27	0.62
1:F:284:PHE:CD2	1:F:296:ILE:HG21	2.34	0.62
1:G:138:VAL:HG21	1:G:145:TYR:HE2	1.65	0.62
1:H:271:LYS:HE2	1:K:268:LEU:HD22	1.82	0.62
1:I:52:ILE:H	1:I:74:GLU:CG	2.06	0.62
1:I:219:ASP:C	1:I:224:ASN:HB2	2.19	0.62
1:I:222:ASN:HB2	1:I:237:ASN:H	1.64	0.62
1:I:275:LYS:HG2	1:J:218:THR:O	1.99	0.62
1:J:105:LYS:CD	1:J:148:GLU:HB2	2.27	0.62
1:K:250:SER:HA	1:K:252:THR:N	2.14	0.62
1:L:58:LYS:CE	1:L:65:GLU:HG2	2.29	0.62
1:M:33:ILE:CG1	1:M:312:TRP:HE1	2.12	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:284:PHE:O	1:M:306:ILE:HD13	1.98	0.62
1:N:58:LYS:HE3	1:N:65:GLU:HG2	1.82	0.62
1:N:232:GLU:O	1:N:233:SER:HB2	1.99	0.62
1:O:131:LYS:C	1:O:149:ILE:HD11	2.20	0.62
1:B:36:VAL:HG11	1:B:96:GLN:HE21	1.63	0.62
1:B:58:LYS:HE3	1:B:65:GLU:HG2	1.82	0.62
1:B:81:LYS:HB3	1:C:170:LYS:NZ	2.15	0.62
1:B:138:VAL:HB	1:B:143:LYS:HB3	1.82	0.62
1:B:232:GLU:O	1:B:233:SER:HB2	1.99	0.62
1:B:243:GLY:N	1:G:164:LEU:C	2.52	0.62
1:B:279:LEU:HD13	1:B:282:LEU:HD21	1.82	0.62
1:C:58:LYS:HE3	1:C:65:GLU:HG2	1.82	0.62
1:C:165:GLU:HG3	1:C:305:ILE:HD12	1.82	0.62
1:D:165:GLU:HG3	1:D:305:ILE:HD12	1.82	0.62
1:G:232:GLU:O	1:G:233:SER:HB2	1.99	0.62
1:G:254:ILE:HG13	1:G:255:LYS:N	2.14	0.62
1:H:58:LYS:HE3	1:H:65:GLU:HG2	1.82	0.62
1:H:58:LYS:HZ2	1:H:65:GLU:HG2	1.65	0.62
1:I:33:ILE:CG1	1:I:312:TRP:HE1	2.12	0.62
1:I:105:LYS:CD	1:I:148:GLU:HB2	2.27	0.62
1:I:250:SER:HA	1:I:252:THR:N	2.14	0.62
1:I:279:LEU:HD13	1:I:282:LEU:HD21	1.82	0.62
1:J:50:ILE:O	1:N:246:ILE:N	2.31	0.62
1:J:306:ILE:HG13	1:O:230:GLN:CB	2.28	0.62
1:K:58:LYS:HE3	1:K:65:GLU:HG2	1.82	0.62
1:K:105:LYS:HZ2	1:K:148:GLU:HB3	1.64	0.62
1:K:303:ASN:C	1:L:226:ILE:HD12	2.11	0.62
1:L:106:VAL:CG2	1:L:147:PHE:CZ	2.82	0.62
1:M:279:LEU:HD13	1:M:282:LEU:HD21	1.82	0.62
1:N:219:ASP:C	1:N:224:ASN:HB2	2.19	0.62
1:N:279:LEU:HD13	1:N:282:LEU:HD21	1.82	0.62
1:O:54:GLY:HA3	1:O:56:SER:H	1.64	0.62
1:O:123:LYS:NZ	1:O:127:ARG:NH1	2.48	0.62
1:O:138:VAL:HG21	1:O:145:TYR:HE2	1.65	0.62
1:O:170:LYS:NZ	1:P:81:LYS:HB3	2.15	0.62
1:O:234:ALA:HB3	1:O:235:LEU:HD23	1.82	0.62
1:P:279:LEU:HD13	1:P:282:LEU:HD21	1.82	0.62
1:A:258:LYS:NZ	1:A:295:GLN:HG3	2.14	0.61
1:B:105:LYS:NZ	1:B:148:GLU:HB3	2.15	0.61
1:B:179:PHE:HE1	1:B:261:PHE:CE2	2.18	0.61
1:C:138:VAL:HB	1:C:143:LYS:HB3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:232:GLU:O	1:C:233:SER:HB2	1.99	0.61
1:D:123:LYS:NZ	1:D:127:ARG:NH1	2.48	0.61
1:D:279:LEU:HD13	1:D:282:LEU:HD21	1.82	0.61
1:E:32:ASP:HB3	1:E:34:LYS:CB	2.30	0.61
1:E:50:ILE:HG12	1:F:320:LYS:HG2	1.80	0.61
1:E:138:VAL:HG21	1:E:145:TYR:HE2	1.65	0.61
1:E:258:LYS:NZ	1:E:295:GLN:HG3	2.14	0.61
1:E:284:PHE:CD2	1:E:296:ILE:HG21	2.34	0.61
1:F:138:VAL:HG21	1:F:145:TYR:HE2	1.65	0.61
1:F:279:LEU:HD13	1:F:282:LEU:HD21	1.82	0.61
1:H:61:LEU:HB3	1:H:66:TYR:CD1	2.34	0.61
1:H:203:GLU:CB	1:K:198:GLU:CA	2.73	0.61
1:H:240:MET:HG3	1:H:251:SER:HB2	1.82	0.61
1:J:106:VAL:CG2	1:J:147:PHE:CZ	2.82	0.61
1:L:95:THR:HG22	1:L:136:ILE:CD1	2.24	0.61
1:L:232:GLU:O	1:L:233:SER:HB2	1.99	0.61
1:M:34:LYS:H	1:M:36:VAL:N	1.96	0.61
1:M:95:THR:CG2	1:M:136:ILE:HD13	2.22	0.61
1:M:105:LYS:NZ	1:M:148:GLU:HB3	2.15	0.61
1:M:170:LYS:NZ	1:N:81:LYS:HB3	2.15	0.61
1:N:34:LYS:H	1:N:36:VAL:N	1.96	0.61
1:N:105:LYS:NZ	1:N:148:GLU:HB3	2.15	0.61
1:O:37:ILE:CG1	1:O:312:TRP:CZ2	2.79	0.61
1:A:58:LYS:HE3	1:A:65:GLU:HG2	1.82	0.61
1:A:81:LYS:HB3	1:B:170:LYS:NZ	2.15	0.61
1:A:105:LYS:CD	1:A:148:GLU:HB2	2.27	0.61
1:A:279:LEU:HD13	1:A:282:LEU:HD21	1.82	0.61
1:C:81:LYS:HB3	1:D:170:LYS:NZ	2.15	0.61
1:C:106:VAL:CG2	1:C:147:PHE:CZ	2.82	0.61
1:C:240:MET:HE1	1:G:73:VAL:CB	2.28	0.61
1:C:258:LYS:NZ	1:C:295:GLN:HG3	2.14	0.61
1:D:61:LEU:HB3	1:D:66:TYR:CD1	2.34	0.61
1:E:123:LYS:NZ	1:E:127:ARG:NH1	2.48	0.61
1:F:272:ARG:CA	1:I:202:GLU:HG2	2.31	0.61
1:G:258:LYS:NZ	1:G:295:GLN:HG3	2.14	0.61
1:G:268:LEU:HD22	1:J:271:LYS:HZ1	1.64	0.61
1:H:202:GLU:HA	1:K:272:ARG:HG3	1.59	0.61
1:I:45:LEU:HD22	1:I:58:LYS:HZ3	1.64	0.61
1:I:123:LYS:NZ	1:I:127:ARG:NH1	2.48	0.61
1:I:306:ILE:HG23	1:N:230:GLN:HB3	1.82	0.61
1:J:188:LEU:N	1:J:199:ARG:HG2	2.10	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:36:VAL:HG11	1:K:96:GLN:HE21	1.62	0.61
1:L:43:TYR:CG	1:L:67:LEU:HB3	2.35	0.61
1:L:58:LYS:HE3	1:L:65:GLU:HG2	1.82	0.61
1:L:123:LYS:NZ	1:L:127:ARG:NH1	2.48	0.61
1:M:58:LYS:HE3	1:M:65:GLU:HG2	1.82	0.61
1:M:165:GLU:HG3	1:M:305:ILE:HD12	1.82	0.61
1:N:95:THR:HG22	1:N:136:ILE:HG21	1.78	0.61
1:N:170:LYS:NZ	1:O:81:LYS:HB3	2.15	0.61
1:P:105:LYS:CD	1:P:148:GLU:HB2	2.27	0.61
1:P:109:VAL:HG22	1:P:318:LEU:HB3	1.81	0.61
1:A:21:LEU:HD23	1:A:22:ILE:N	2.16	0.61
1:A:61:LEU:HB3	1:A:66:TYR:CD1	2.34	0.61
1:A:138:VAL:HB	1:A:143:LYS:HB3	1.82	0.61
1:B:165:GLU:HG3	1:B:305:ILE:HD12	1.82	0.61
1:B:241:LYS:HZ3	1:G:305:ILE:HG22	1.65	0.61
1:C:105:LYS:NZ	1:C:148:GLU:HB3	2.15	0.61
1:E:95:THR:HG22	1:E:136:ILE:CD1	2.24	0.61
1:G:52:ILE:H	1:G:74:GLU:CG	2.06	0.61
1:G:54:GLY:HA3	1:G:56:SER:H	1.64	0.61
1:G:219:ASP:C	1:G:224:ASN:HB2	2.19	0.61
1:H:165:GLU:HG3	1:H:305:ILE:HD12	1.82	0.61
1:K:43:TYR:CG	1:K:67:LEU:HB3	2.35	0.61
1:K:240:MET:HG3	1:K:251:SER:HB2	1.82	0.61
1:L:21:LEU:HD23	1:L:22:ILE:N	2.16	0.61
1:L:43:TYR:CE2	1:L:67:LEU:CB	2.81	0.61
1:L:138:VAL:HG21	1:L:145:TYR:HE2	1.65	0.61
1:N:123:LYS:NZ	1:N:127:ARG:NH1	2.48	0.61
1:N:165:GLU:HG3	1:N:305:ILE:HD12	1.82	0.61
1:N:258:LYS:NZ	1:N:295:GLN:HG3	2.14	0.61
1:O:105:LYS:NZ	1:O:148:GLU:HB3	2.16	0.61
1:O:109:VAL:HG22	1:O:318:LEU:HB3	1.81	0.61
1:O:240:MET:HG3	1:O:251:SER:HB2	1.82	0.61
1:A:54:GLY:HA3	1:A:56:SER:H	1.64	0.61
1:A:131:LYS:C	1:A:149:ILE:HD11	2.20	0.61
1:A:165:GLU:HG3	1:A:305:ILE:HD12	1.82	0.61
1:A:240:MET:HG3	1:A:251:SER:HB2	1.82	0.61
1:A:248:THR:CG2	1:E:52:ILE:HD13	2.28	0.61
1:B:61:LEU:HB3	1:B:66:TYR:CD1	2.34	0.61
1:C:33:ILE:CG1	1:C:312:TRP:HE1	2.12	0.61
1:C:43:TYR:CE2	1:C:67:LEU:CB	2.80	0.61
1:D:21:LEU:HD23	1:D:22:ILE:N	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:32:ASP:HB3	1:D:34:LYS:CB	2.30	0.61
1:D:179:PHE:HE1	1:D:261:PHE:CE2	2.18	0.61
1:D:245:GLU:O	1:H:52:ILE:CG1	2.48	0.61
1:E:68:ILE:CD1	1:E:92:THR:HB	2.10	0.61
1:E:131:LYS:C	1:E:149:ILE:HD11	2.20	0.61
1:F:123:LYS:NZ	1:F:127:ARG:NH1	2.48	0.61
1:H:271:LYS:HZ1	1:K:268:LEU:HD22	1.65	0.61
1:J:45:LEU:HD22	1:J:58:LYS:HZ3	1.64	0.61
1:K:277:ASP:CB	1:L:219:ASP:CG	2.61	0.61
1:K:279:LEU:HD13	1:K:282:LEU:HD21	1.82	0.61
1:L:33:ILE:CG1	1:L:312:TRP:HE1	2.12	0.61
1:M:234:ALA:HB3	1:M:235:LEU:HD23	1.82	0.61
1:N:43:TYR:CG	1:N:67:LEU:HB3	2.35	0.61
1:P:43:TYR:CG	1:P:67:LEU:HB3	2.35	0.61
1:P:123:LYS:NZ	1:P:127:ARG:NH1	2.48	0.61
1:P:131:LYS:C	1:P:149:ILE:HD11	2.20	0.61
1:P:240:MET:HG3	1:P:251:SER:HB2	1.82	0.61
1:A:105:LYS:NZ	1:A:148:GLU:HB3	2.15	0.61
1:E:222:ASN:HB2	1:E:237:ASN:H	1.64	0.61
1:F:105:LYS:NZ	1:F:148:GLU:HB3	2.16	0.61
1:G:105:LYS:CD	1:G:148:GLU:HB2	2.27	0.61
1:G:165:GLU:HG3	1:G:305:ILE:HD12	1.82	0.61
1:G:211:ILE:HA	1:G:220:LEU:HD21	1.82	0.61
1:H:95:THR:CG2	1:H:136:ILE:HD13	2.22	0.61
1:H:279:LEU:HD13	1:H:282:LEU:HD21	1.82	0.61
1:I:179:PHE:HE1	1:I:261:PHE:CE2	2.18	0.61
1:I:321:VAL:N	1:J:49:TYR:HD1	1.97	0.61
1:I:323:VAL:HG13	1:N:246:ILE:CD1	2.18	0.61
1:J:43:TYR:CG	1:J:67:LEU:HB3	2.35	0.61
1:J:105:LYS:NZ	1:J:148:GLU:HB3	2.16	0.61
1:J:222:ASN:HB2	1:J:237:ASN:H	1.64	0.61
1:J:309:ASN:OD1	1:O:229:GLU:N	2.33	0.61
1:K:49:TYR:HE2	1:O:245:GLU:C	2.04	0.61
1:L:54:GLY:HA3	1:L:56:SER:H	1.64	0.61
1:L:240:MET:HG3	1:L:251:SER:HB2	1.82	0.61
1:M:21:LEU:HD23	1:M:22:ILE:N	2.16	0.61
1:M:37:ILE:CG1	1:M:312:TRP:CZ2	2.79	0.61
1:M:138:VAL:HB	1:M:143:LYS:HB3	1.82	0.61
1:O:43:TYR:CG	1:O:67:LEU:HB3	2.35	0.61
1:O:165:GLU:HG3	1:O:305:ILE:HD12	1.82	0.61
1:P:105:LYS:NZ	1:P:148:GLU:HB3	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:165:GLU:HG3	1:P:305:ILE:HD12	1.82	0.61
1:P:258:LYS:NZ	1:P:295:GLN:HG3	2.14	0.61
1:A:179:PHE:HE1	1:A:261:PHE:CE2	2.18	0.61
1:A:234:ALA:HB3	1:A:235:LEU:HD23	1.82	0.61
1:C:32:ASP:HB3	1:C:34:LYS:CB	2.30	0.61
1:C:61:LEU:HB3	1:C:66:TYR:CD1	2.34	0.61
1:C:105:LYS:HZ2	1:C:148:GLU:HB3	1.66	0.61
1:F:32:ASP:HB3	1:F:34:LYS:CB	2.30	0.61
1:F:95:THR:CG2	1:F:136:ILE:HD13	2.22	0.61
1:F:131:LYS:C	1:F:149:ILE:HD11	2.20	0.61
1:G:100:SER:OG	1:G:101:ASN:HB2	2.01	0.61
1:G:208:ASP:HA	1:G:211:ILE:HG12	1.83	0.61
1:H:33:ILE:CG1	1:H:312:TRP:HE1	2.12	0.61
1:H:82:THR:CB	1:H:84:LEU:HD23	2.29	0.61
1:I:21:LEU:HD23	1:I:22:ILE:N	2.16	0.61
1:I:43:TYR:CG	1:I:67:LEU:HB3	2.35	0.61
1:J:21:LEU:HD23	1:J:22:ILE:N	2.16	0.61
1:J:123:LYS:NZ	1:J:127:ARG:NH1	2.48	0.61
1:J:179:PHE:HE1	1:J:261:PHE:CE2	2.18	0.61
1:K:21:LEU:HD23	1:K:22:ILE:N	2.16	0.61
1:K:61:LEU:HB3	1:K:66:TYR:CD1	2.35	0.61
1:K:306:ILE:HG13	1:P:230:GLN:HB2	1.81	0.61
1:L:74:GLU:C	1:P:245:GLU:O	2.38	0.61
1:M:43:TYR:CG	1:M:67:LEU:HB3	2.35	0.61
1:M:179:PHE:HE1	1:M:261:PHE:CE2	2.18	0.61
1:N:109:VAL:HG22	1:N:318:LEU:HB3	1.81	0.61
1:O:21:LEU:HD23	1:O:22:ILE:N	2.16	0.61
1:O:106:VAL:CG2	1:O:147:PHE:CZ	2.82	0.61
1:P:21:LEU:HD23	1:P:22:ILE:N	2.16	0.61
1:P:106:VAL:CG2	1:P:147:PHE:CZ	2.82	0.61
1:P:188:LEU:N	1:P:199:ARG:HG2	2.10	0.61
1:B:21:LEU:HD23	1:B:22:ILE:N	2.16	0.61
1:B:123:LYS:NZ	1:B:127:ARG:NH1	2.48	0.61
1:B:234:ALA:HB3	1:B:235:LEU:HD23	1.82	0.61
1:C:36:VAL:HG11	1:C:96:GLN:HE21	1.63	0.61
1:C:274:PHE:HB2	1:C:278:GLN:CD	2.21	0.61
1:D:82:THR:CB	1:D:84:LEU:HD23	2.29	0.61
1:E:219:ASP:CG	1:F:275:LYS:HZ2	2.04	0.61
1:E:254:ILE:HG13	1:E:255:LYS:N	2.13	0.61
1:G:21:LEU:HD23	1:G:22:ILE:N	2.16	0.61
1:G:82:THR:CB	1:G:84:LEU:HD23	2.29	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:105:LYS:NZ	1:G:148:GLU:HB3	2.16	0.61
1:G:131:LYS:C	1:G:149:ILE:HD11	2.20	0.61
1:H:100:SER:OG	1:H:101:ASN:HB2	2.01	0.61
1:H:123:LYS:NZ	1:H:127:ARG:NH1	2.48	0.61
1:H:203:GLU:CD	1:K:198:GLU:CG	2.68	0.61
1:H:208:ASP:HA	1:H:211:ILE:HG12	1.83	0.61
1:H:254:ILE:HG13	1:H:255:LYS:N	2.13	0.61
1:I:95:THR:CG2	1:I:136:ILE:HD13	2.22	0.61
1:I:188:LEU:N	1:I:199:ARG:HG2	2.10	0.61
1:J:36:VAL:HG11	1:J:96:GLN:HE21	1.62	0.61
1:J:138:VAL:HG21	1:J:145:TYR:HE2	1.65	0.61
1:J:240:MET:HG3	1:J:251:SER:HB2	1.82	0.61
1:K:138:VAL:HG21	1:K:145:TYR:HE2	1.65	0.61
1:K:164:LEU:O	1:P:242:LYS:HA	2.00	0.61
1:L:165:GLU:HG3	1:L:305:ILE:HD12	1.82	0.61
1:M:109:VAL:HG22	1:M:318:LEU:HB3	1.81	0.61
1:N:100:SER:OG	1:N:101:ASN:HB2	2.01	0.61
1:N:138:VAL:HB	1:N:143:LYS:HB3	1.82	0.61
1:N:240:MET:HG3	1:N:251:SER:HB2	1.82	0.61
1:O:179:PHE:HE1	1:O:261:PHE:CE2	2.18	0.61
1:O:188:LEU:N	1:O:199:ARG:HG2	2.10	0.61
1:P:138:VAL:HB	1:P:143:LYS:HB3	1.82	0.61
1:P:232:GLU:O	1:P:233:SER:HB2	1.99	0.61
1:A:123:LYS:NZ	1:A:127:ARG:NH1	2.48	0.61
1:B:100:SER:OG	1:B:101:ASN:HB2	2.01	0.61
1:B:109:VAL:HG22	1:B:318:LEU:HB3	1.81	0.61
1:B:274:PHE:HB2	1:B:278:GLN:CD	2.21	0.61
1:C:54:GLY:HA3	1:C:56:SER:H	1.64	0.61
1:C:82:THR:CB	1:C:84:LEU:HD23	2.29	0.61
1:E:36:VAL:HG11	1:E:96:GLN:HE21	1.63	0.61
1:E:43:TYR:CG	1:E:67:LEU:HB3	2.35	0.61
1:F:82:THR:CB	1:F:84:LEU:HD23	2.29	0.61
1:F:100:SER:OG	1:F:101:ASN:HB2	2.01	0.61
1:F:138:VAL:HB	1:F:143:LYS:HB3	1.82	0.61
1:G:138:VAL:HB	1:G:143:LYS:HB3	1.82	0.61
1:G:219:ASP:CB	1:H:277:ASP:CB	2.65	0.61
1:H:179:PHE:HE1	1:H:261:PHE:CE2	2.18	0.61
1:H:222:ASN:HB2	1:H:237:ASN:H	1.64	0.61
1:H:272:ARG:HH11	1:K:201:ILE:HG13	1.57	0.61
1:K:68:ILE:CD1	1:K:92:THR:HB	2.10	0.61
1:K:105:LYS:NZ	1:K:148:GLU:HB3	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:32:ASP:HB3	1:L:34:LYS:CB	2.30	0.61
1:L:208:ASP:HA	1:L:211:ILE:HG12	1.83	0.61
1:N:188:LEU:N	1:N:199:ARG:HG2	2.10	0.61
1:O:100:SER:OG	1:O:101:ASN:HB2	2.01	0.61
1:O:138:VAL:HB	1:O:143:LYS:HB3	1.82	0.61
1:O:300:TYR:HE2	1:P:225:LEU:HD22	0.83	0.61
1:P:37:ILE:CG1	1:P:312:TRP:CZ2	2.79	0.61
1:P:43:TYR:CE2	1:P:67:LEU:CB	2.80	0.61
1:P:54:GLY:HA3	1:P:56:SER:H	1.64	0.61
1:P:222:ASN:HB2	1:P:237:ASN:H	1.64	0.61
1:A:109:VAL:HG22	1:A:318:LEU:HB3	1.81	0.61
1:A:138:VAL:HG21	1:A:145:TYR:HE2	1.65	0.61
1:B:32:ASP:HB3	1:B:34:LYS:CB	2.30	0.61
1:B:105:LYS:CD	1:B:148:GLU:HB2	2.27	0.61
1:B:246:ILE:N	1:F:49:TYR:CE2	2.68	0.61
1:E:82:THR:CB	1:E:84:LEU:HD23	2.29	0.61
1:F:33:ILE:HD12	1:F:312:TRP:NE1	2.15	0.61
1:F:43:TYR:CG	1:F:67:LEU:HB3	2.35	0.61
1:G:43:TYR:CG	1:G:67:LEU:HB3	2.35	0.61
1:G:240:MET:HG3	1:G:251:SER:HB2	1.83	0.61
1:H:131:LYS:C	1:H:149:ILE:HD11	2.20	0.61
1:H:138:VAL:HB	1:H:143:LYS:HB3	1.82	0.61
1:I:52:ILE:CD1	1:M:247:ASP:O	2.46	0.61
1:J:211:ILE:HA	1:J:220:LEU:HD21	1.82	0.61
1:J:277:ASP:CB	1:K:219:ASP:CB	2.65	0.61
1:K:44:ASN:CB	1:K:64:LYS:HZ1	2.12	0.61
1:K:54:GLY:HA3	1:K:56:SER:H	1.64	0.61
1:K:219:ASP:C	1:K:224:ASN:HB2	2.19	0.61
1:M:222:ASN:HB2	1:M:237:ASN:H	1.64	0.61
1:N:175:ALA:HB3	1:N:282:LEU:HD22	1.83	0.61
1:O:7:GLU:C	1:O:326:TYR:HE1	2.04	0.61
1:O:175:ALA:HB3	1:O:282:LEU:HD22	1.83	0.61
1:A:32:ASP:HB3	1:A:34:LYS:CB	2.30	0.61
1:B:247:ASP:O	1:F:52:ILE:HG23	1.99	0.61
1:D:105:LYS:NZ	1:D:148:GLU:HB3	2.16	0.61
1:E:100:SER:OG	1:E:101:ASN:HB2	2.01	0.61
1:E:138:VAL:HB	1:E:143:LYS:HB3	1.82	0.61
1:F:21:LEU:HD23	1:F:22:ILE:N	2.16	0.61
1:F:165:GLU:HG3	1:F:305:ILE:HD12	1.82	0.61
1:G:32:ASP:HB3	1:G:34:LYS:CB	2.30	0.61
1:H:21:LEU:HD23	1:H:22:ILE:N	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:274:PHE:HB2	1:H:278:GLN:CD	2.21	0.61
1:I:54:GLY:HA3	1:I:56:SER:H	1.64	0.61
1:I:138:VAL:HG21	1:I:145:TYR:HE2	1.65	0.61
1:K:32:ASP:HB3	1:K:34:LYS:CB	2.30	0.61
1:K:43:TYR:CE2	1:K:67:LEU:CB	2.80	0.61
1:K:123:LYS:NZ	1:K:127:ARG:NH1	2.48	0.61
1:K:165:GLU:HG3	1:K:305:ILE:HD12	1.82	0.61
1:K:208:ASP:HA	1:K:211:ILE:HG12	1.83	0.61
1:L:131:LYS:C	1:L:149:ILE:HD11	2.20	0.61
1:M:188:LEU:N	1:M:199:ARG:HG2	2.10	0.61
1:N:234:ALA:HB3	1:N:235:LEU:HD23	1.82	0.61
1:O:232:GLU:O	1:O:233:SER:HB2	1.99	0.61
1:P:175:ALA:HB3	1:P:282:LEU:HD22	1.83	0.61
1:P:274:PHE:HB2	1:P:278:GLN:CD	2.21	0.61
1:C:109:VAL:HG22	1:C:318:LEU:HB3	1.81	0.60
1:E:219:ASP:C	1:E:224:ASN:HB2	2.19	0.60
1:F:36:VAL:HG11	1:F:96:GLN:HE21	1.63	0.60
1:F:49:TYR:HD1	1:G:321:VAL:N	1.97	0.60
1:F:54:GLY:HA3	1:F:56:SER:H	1.64	0.60
1:F:283:ILE:HG13	1:F:305:ILE:HD11	1.83	0.60
1:G:179:PHE:HE1	1:G:261:PHE:CE2	2.18	0.60
1:G:222:ASN:HB2	1:G:237:ASN:H	1.64	0.60
1:G:234:ALA:HB3	1:G:235:LEU:HD23	1.82	0.60
1:G:279:LEU:HD13	1:G:282:LEU:HD21	1.82	0.60
1:H:43:TYR:CG	1:H:67:LEU:HB3	2.35	0.60
1:K:106:VAL:CG2	1:K:147:PHE:CZ	2.82	0.60
1:K:321:VAL:HA	1:L:49:TYR:CB	2.25	0.60
1:L:234:ALA:HB3	1:L:235:LEU:HD23	1.82	0.60
1:L:274:PHE:HB2	1:L:278:GLN:CD	2.21	0.60
1:M:175:ALA:HB3	1:M:282:LEU:HD22	1.83	0.60
1:N:21:LEU:HD23	1:N:22:ILE:N	2.16	0.60
1:N:37:ILE:CG1	1:N:312:TRP:CZ2	2.79	0.60
1:N:43:TYR:CE2	1:N:67:LEU:CB	2.80	0.60
1:N:106:VAL:CG2	1:N:147:PHE:CZ	2.82	0.60
1:O:105:LYS:CD	1:O:148:GLU:HB2	2.27	0.60
1:A:247:ASP:OD2	1:F:320:LYS:CE	2.49	0.60
1:B:7:GLU:C	1:B:326:TYR:HE1	2.04	0.60
1:B:82:THR:CB	1:B:84:LEU:HD23	2.29	0.60
1:B:240:MET:HG3	1:B:251:SER:HB2	1.82	0.60
1:D:7:GLU:C	1:D:326:TYR:HE1	2.04	0.60
1:D:43:TYR:CG	1:D:67:LEU:HB3	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:240:MET:HG3	1:D:251:SER:HB2	1.83	0.60
1:D:274:PHE:HB2	1:D:278:GLN:CD	2.21	0.60
1:E:240:MET:HG3	1:E:251:SER:HB2	1.82	0.60
1:E:283:ILE:HG13	1:E:305:ILE:HD11	1.83	0.60
1:F:44:ASN:CB	1:F:64:LYS:HZ1	2.13	0.60
1:F:120:ALA:HB2	1:I:120:ALA:CB	2.18	0.60
1:F:222:ASN:HB2	1:F:237:ASN:H	1.64	0.60
1:H:234:ALA:HB3	1:H:235:LEU:HD23	1.82	0.60
1:I:7:GLU:C	1:I:326:TYR:HE1	2.04	0.60
1:I:321:VAL:HA	1:J:49:TYR:CB	2.25	0.60
1:J:54:GLY:HA3	1:J:56:SER:H	1.64	0.60
1:K:149:ILE:O	1:K:149:ILE:HG13	2.01	0.60
1:K:308:ASN:OD1	1:P:230:GLN:CA	2.48	0.60
1:M:123:LYS:NZ	1:M:127:ARG:NH1	2.48	0.60
1:M:211:ILE:HA	1:M:220:LEU:HD21	1.82	0.60
1:M:274:PHE:HB2	1:M:278:GLN:CD	2.21	0.60
1:O:274:PHE:HB2	1:O:278:GLN:CD	2.21	0.60
1:P:138:VAL:HG21	1:P:145:TYR:HE2	1.65	0.60
1:A:230:GLN:HB2	1:F:306:ILE:HG13	1.82	0.60
1:D:100:SER:OG	1:D:101:ASN:HB2	2.01	0.60
1:D:175:ALA:HB3	1:D:282:LEU:HD22	1.83	0.60
1:D:208:ASP:HA	1:D:211:ILE:HG12	1.83	0.60
1:E:54:GLY:HA3	1:E:56:SER:H	1.64	0.60
1:E:165:GLU:HG3	1:E:305:ILE:HD12	1.82	0.60
1:E:211:ILE:HA	1:E:220:LEU:HD21	1.82	0.60
1:G:36:VAL:HG11	1:G:96:GLN:HE21	1.62	0.60
1:G:274:PHE:HB2	1:G:278:GLN:CD	2.21	0.60
1:G:283:ILE:HG13	1:G:305:ILE:HD11	1.83	0.60
1:H:36:VAL:HG11	1:H:96:GLN:HE21	1.63	0.60
1:I:188:LEU:HD13	1:I:198:GLU:HB3	1.84	0.60
1:I:234:ALA:HB3	1:I:235:LEU:HD23	1.82	0.60
1:J:9:VAL:HG13	1:J:322:ALA:HB1	1.83	0.60
1:J:105:LYS:HZ2	1:J:148:GLU:HB3	1.66	0.60
1:J:149:ILE:O	1:J:149:ILE:HG13	2.01	0.60
1:J:165:GLU:HG3	1:J:305:ILE:HD12	1.82	0.60
1:J:308:ASN:HD22	1:O:231:ALA:CA	2.14	0.60
1:J:321:VAL:HA	1:K:49:TYR:CB	2.25	0.60
1:K:7:GLU:C	1:K:326:TYR:HE1	2.04	0.60
1:K:300:TYR:HD2	1:L:225:LEU:CB	2.10	0.60
1:L:149:ILE:HG13	1:L:149:ILE:O	2.01	0.60
1:N:149:ILE:HG13	1:N:149:ILE:O	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:179:PHE:HE1	1:P:261:PHE:CE2	2.18	0.60
1:A:37:ILE:CG1	1:A:312:TRP:CZ2	2.79	0.60
1:A:274:PHE:HB2	1:A:278:GLN:CD	2.21	0.60
1:B:43:TYR:CG	1:B:67:LEU:HB3	2.35	0.60
1:B:138:VAL:HG21	1:B:145:TYR:HE2	1.65	0.60
1:C:208:ASP:HA	1:C:211:ILE:HG12	1.83	0.60
1:D:36:VAL:HG11	1:D:96:GLN:HE21	1.63	0.60
1:E:21:LEU:HD23	1:E:22:ILE:N	2.16	0.60
1:E:149:ILE:O	1:E:149:ILE:HG13	2.01	0.60
1:E:186:PHE:HD2	1:E:269:ILE:HD11	1.61	0.60
1:F:7:GLU:C	1:F:326:TYR:HE1	2.04	0.60
1:F:179:PHE:HE1	1:F:261:PHE:CE2	2.18	0.60
1:F:203:GLU:CA	1:I:197:SER:O	2.50	0.60
1:F:234:ALA:HB3	1:F:235:LEU:HD23	1.82	0.60
1:F:274:PHE:HB2	1:F:278:GLN:CD	2.21	0.60
1:I:36:VAL:HG11	1:I:96:GLN:HE21	1.63	0.60
1:I:130:ILE:HD11	1:I:152:ILE:HD12	1.84	0.60
1:I:283:ILE:HG13	1:I:305:ILE:HD11	1.83	0.60
1:J:32:ASP:HB3	1:J:34:LYS:CB	2.30	0.60
1:J:320:LYS:O	1:O:246:ILE:HD11	1.80	0.60
1:K:52:ILE:HG23	1:O:247:ASP:O	1.93	0.60
1:K:93:ALA:O	1:K:96:GLN:HG2	2.02	0.60
1:K:131:LYS:C	1:K:149:ILE:HD11	2.20	0.60
1:K:179:PHE:HE1	1:K:261:PHE:CE2	2.18	0.60
1:K:274:PHE:HB2	1:K:278:GLN:CD	2.21	0.60
1:L:100:SER:OG	1:L:101:ASN:HB2	2.01	0.60
1:L:211:ILE:HA	1:L:220:LEU:HD21	1.82	0.60
1:M:105:LYS:HZ2	1:M:148:GLU:HB3	1.65	0.60
1:M:149:ILE:O	1:M:149:ILE:HG13	2.01	0.60
1:N:7:GLU:C	1:N:326:TYR:HE1	2.04	0.60
1:O:149:ILE:HG13	1:O:149:ILE:O	2.01	0.60
1:P:43:TYR:CD2	1:P:67:LEU:HD13	2.37	0.60
1:P:149:ILE:O	1:P:149:ILE:HG13	2.01	0.60
1:A:43:TYR:CG	1:A:67:LEU:HB3	2.35	0.60
1:A:47:ASP:O	1:B:320:LYS:C	2.40	0.60
1:A:82:THR:CB	1:A:84:LEU:HD23	2.29	0.60
1:B:105:LYS:HZ2	1:B:148:GLU:HB3	1.65	0.60
1:B:208:ASP:HA	1:B:211:ILE:HG12	1.83	0.60
1:D:109:VAL:HG22	1:D:318:LEU:HB3	1.81	0.60
1:E:9:VAL:HG13	1:E:322:ALA:HB1	1.83	0.60
1:F:149:ILE:HG13	1:F:149:ILE:O	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:186:PHE:HD2	1:F:269:ILE:HD11	1.61	0.60
1:F:208:ASP:HA	1:F:211:ILE:HG12	1.83	0.60
1:G:71:GLN:HE22	1:H:168:ASN:CG	1.70	0.60
1:H:105:LYS:NZ	1:H:148:GLU:HB3	2.16	0.60
1:H:186:PHE:HD2	1:H:269:ILE:HD11	1.61	0.60
1:H:283:ILE:HG13	1:H:305:ILE:HD11	1.84	0.60
1:J:100:SER:OG	1:J:101:ASN:HB2	2.01	0.60
1:K:100:SER:OG	1:K:101:ASN:HB2	2.01	0.60
1:K:222:ASN:HB2	1:K:237:ASN:H	1.64	0.60
1:M:7:GLU:C	1:M:326:TYR:HE1	2.04	0.60
1:N:301:PRO:HD3	1:O:227:THR:CG2	2.30	0.60
1:A:208:ASP:HA	1:A:211:ILE:HG12	1.83	0.60
1:B:47:ASP:O	1:C:320:LYS:C	2.40	0.60
1:C:43:TYR:CG	1:C:67:LEU:HB3	2.35	0.60
1:C:47:ASP:O	1:D:320:LYS:C	2.40	0.60
1:C:100:SER:OG	1:C:101:ASN:HB2	2.01	0.60
1:C:175:ALA:HB3	1:C:282:LEU:HD22	1.83	0.60
1:D:222:ASN:HB2	1:D:237:ASN:H	1.64	0.60
1:F:130:ILE:HD11	1:F:152:ILE:HD12	1.84	0.60
1:F:268:LEU:HD22	1:I:271:LYS:HZ1	1.66	0.60
1:G:43:TYR:CE2	1:G:67:LEU:CB	2.80	0.60
1:G:149:ILE:HG13	1:G:149:ILE:O	2.01	0.60
1:G:186:PHE:HD2	1:G:269:ILE:HD11	1.61	0.60
1:H:32:ASP:HB3	1:H:34:LYS:CB	2.30	0.60
1:H:93:ALA:O	1:H:96:GLN:HG2	2.02	0.60
1:I:9:VAL:HG13	1:I:322:ALA:HB1	1.83	0.60
1:I:100:SER:OG	1:I:101:ASN:HB2	2.01	0.60
1:J:131:LYS:C	1:J:149:ILE:HD11	2.20	0.60
1:J:234:ALA:HB3	1:J:235:LEU:HD23	1.82	0.60
1:J:274:PHE:HB2	1:J:278:GLN:CD	2.21	0.60
1:J:300:TYR:HD2	1:K:225:LEU:CB	2.10	0.60
1:K:188:LEU:HD13	1:K:198:GLU:HB3	1.84	0.60
1:L:105:LYS:NZ	1:L:148:GLU:HB3	2.16	0.60
1:L:283:ILE:HG13	1:L:305:ILE:HD11	1.83	0.60
1:M:240:MET:HG3	1:M:251:SER:HB2	1.83	0.60
1:M:323:VAL:HG22	1:N:47:ASP:O	2.02	0.60
1:O:93:ALA:O	1:O:96:GLN:HG2	2.02	0.60
1:P:7:GLU:C	1:P:326:TYR:HE1	2.04	0.60
1:A:93:ALA:O	1:A:96:GLN:HG2	2.02	0.60
1:A:241:LYS:HZ3	1:F:305:ILE:HG22	1.63	0.60
1:C:21:LEU:HD23	1:C:22:ILE:N	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:105:LYS:CD	1:C:148:GLU:HB2	2.27	0.60
1:D:110:LEU:HD22	1:D:126:TYR:OH	2.02	0.60
1:D:246:ILE:HG12	1:H:50:ILE:H	1.49	0.60
1:E:36:VAL:CG2	1:E:38:PHE:CE2	2.85	0.60
1:E:234:ALA:HB3	1:E:235:LEU:HD23	1.82	0.60
1:G:49:TYR:CB	1:H:321:VAL:HA	2.25	0.60
1:G:123:LYS:NZ	1:G:127:ARG:NH1	2.48	0.60
1:G:130:ILE:HD11	1:G:152:ILE:HD12	1.84	0.60
1:H:105:LYS:CD	1:H:148:GLU:HB2	2.27	0.60
1:H:119:ASN:ND2	1:K:119:ASN:HA	2.16	0.60
1:I:32:ASP:HB3	1:I:34:LYS:CB	2.30	0.60
1:I:36:VAL:CG2	1:I:38:PHE:CE2	2.85	0.60
1:I:149:ILE:HG13	1:I:149:ILE:O	2.01	0.60
1:I:165:GLU:HG3	1:I:305:ILE:HD12	1.82	0.60
1:J:188:LEU:HD13	1:J:198:GLU:HB3	1.84	0.60
1:J:306:ILE:HG23	1:O:230:GLN:HB3	1.84	0.60
1:K:125:GLU:O	1:K:129:TYR:CD1	2.55	0.60
1:L:279:LEU:HD13	1:L:282:LEU:HD21	1.82	0.60
1:N:93:ALA:O	1:N:96:GLN:HG2	2.02	0.60
1:N:274:PHE:HB2	1:N:278:GLN:CD	2.21	0.60
1:O:43:TYR:CD2	1:O:67:LEU:HD13	2.37	0.60
1:O:125:GLU:O	1:O:129:TYR:CD1	2.55	0.60
1:O:188:LEU:HD13	1:O:198:GLU:HB3	1.84	0.60
1:A:106:VAL:CG2	1:A:147:PHE:CZ	2.82	0.60
1:A:246:ILE:HD13	1:E:50:ILE:HG23	1.07	0.60
1:B:44:ASN:C	1:B:67:LEU:HD12	2.22	0.60
1:B:47:ASP:C	1:C:323:VAL:CG2	2.57	0.60
1:B:110:LEU:HD22	1:B:126:TYR:OH	2.02	0.60
1:C:245:GLU:O	1:G:74:GLU:CA	2.49	0.60
1:D:43:TYR:CD2	1:D:67:LEU:HD13	2.37	0.60
1:D:44:ASN:C	1:D:67:LEU:HD12	2.22	0.60
1:D:123:LYS:HZ3	1:D:127:ARG:NH1	1.99	0.60
1:E:105:LYS:NZ	1:E:148:GLU:HB3	2.16	0.60
1:E:130:ILE:HD11	1:E:152:ILE:HD12	1.84	0.60
1:E:274:PHE:HB2	1:E:278:GLN:CD	2.21	0.60
1:F:93:ALA:O	1:F:96:GLN:HG2	2.02	0.60
1:F:106:VAL:CG2	1:F:147:PHE:CZ	2.82	0.60
1:G:7:GLU:C	1:G:326:TYR:HE1	2.04	0.60
1:G:202:GLU:CG	1:J:271:LYS:HE3	2.23	0.60
1:H:125:GLU:O	1:H:129:TYR:CD1	2.55	0.60
1:I:34:LYS:H	1:I:35:ARG:C	2.06	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:105:LYS:NZ	1:I:148:GLU:HB3	2.16	0.60
1:I:131:LYS:C	1:I:149:ILE:HD11	2.20	0.60
1:I:240:MET:HG3	1:I:251:SER:HB2	1.82	0.60
1:I:274:PHE:HB2	1:I:278:GLN:CD	2.21	0.60
1:J:130:ILE:HD11	1:J:152:ILE:HD12	1.84	0.60
1:J:208:ASP:HA	1:J:211:ILE:HG12	1.83	0.60
1:K:9:VAL:HG13	1:K:322:ALA:HB1	1.84	0.60
1:K:109:VAL:HG21	1:K:321:VAL:CG1	2.32	0.60
1:K:110:LEU:HD22	1:K:126:TYR:OH	2.02	0.60
1:K:196:PRO:HB3	1:K:199:ARG:HH21	1.67	0.60
1:K:283:ILE:HG13	1:K:305:ILE:HD11	1.83	0.60
1:L:7:GLU:C	1:L:326:TYR:HE1	2.04	0.60
1:L:175:ALA:HB3	1:L:282:LEU:HD22	1.83	0.60
1:L:188:LEU:HD13	1:L:198:GLU:HB3	1.84	0.60
1:M:188:LEU:HD13	1:M:198:GLU:HB3	1.84	0.60
1:N:169:PHE:C	1:O:79:THR:CB	2.64	0.60
1:N:188:LEU:HD13	1:N:198:GLU:HB3	1.84	0.60
1:P:44:ASN:C	1:P:67:LEU:HD12	2.22	0.60
1:P:93:ALA:O	1:P:96:GLN:HG2	2.02	0.60
1:P:100:SER:OG	1:P:101:ASN:HB2	2.01	0.60
1:A:44:ASN:C	1:A:67:LEU:HD12	2.23	0.60
1:A:125:GLU:O	1:A:129:TYR:CD1	2.55	0.60
1:A:230:GLN:HB3	1:F:306:ILE:HG23	1.84	0.60
1:B:47:ASP:O	1:C:323:VAL:HG22	2.02	0.60
1:B:125:GLU:O	1:B:129:TYR:CD1	2.55	0.60
1:B:175:ALA:HB3	1:B:282:LEU:HD22	1.83	0.60
1:C:44:ASN:C	1:C:67:LEU:HD12	2.23	0.60
1:C:49:TYR:O	1:D:323:VAL:CG2	2.50	0.60
1:C:123:LYS:HZ2	1:C:127:ARG:NH1	2.00	0.60
1:C:188:LEU:HD13	1:C:198:GLU:HB3	1.83	0.60
1:D:138:VAL:HG21	1:D:145:TYR:HE2	1.65	0.60
1:E:44:ASN:C	1:E:67:LEU:HD12	2.23	0.60
1:E:93:ALA:O	1:E:96:GLN:HG2	2.02	0.60
1:E:125:GLU:O	1:E:129:TYR:CD1	2.55	0.60
1:E:218:THR:OG1	1:F:278:GLN:HB3	1.87	0.60
1:F:196:PRO:HB3	1:F:199:ARG:HH21	1.67	0.60
1:I:109:VAL:HG21	1:I:321:VAL:CG1	2.32	0.60
1:I:208:ASP:HA	1:I:211:ILE:HG12	1.83	0.60
1:I:275:LYS:HZ2	1:J:219:ASP:CG	2.03	0.60
1:J:283:ILE:HG13	1:J:305:ILE:HD11	1.83	0.60
1:K:234:ALA:HB3	1:K:235:LEU:HD23	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:110:LEU:HD22	1:L:126:TYR:OH	2.02	0.60
1:M:106:VAL:CG2	1:M:147:PHE:CZ	2.82	0.60
1:M:277:ASP:OD2	1:N:224:ASN:CA	2.44	0.60
1:N:125:GLU:O	1:N:129:TYR:CD1	2.55	0.60
1:O:323:VAL:CG2	1:P:49:TYR:O	2.50	0.60
1:P:188:LEU:HD13	1:P:198:GLU:HB3	1.84	0.60
1:A:49:TYR:O	1:B:323:VAL:CG2	2.50	0.60
1:B:188:LEU:HD13	1:B:198:GLU:HB3	1.84	0.60
1:C:43:TYR:CD2	1:C:67:LEU:HD13	2.37	0.60
1:C:230:GLN:CD	1:H:306:ILE:HG21	2.22	0.60
1:E:196:PRO:HB3	1:E:199:ARG:HH21	1.67	0.60
1:E:208:ASP:HA	1:E:211:ILE:HG12	1.83	0.60
1:F:109:VAL:CB	1:F:322:ALA:HB2	2.26	0.60
1:F:110:LEU:HD22	1:F:126:TYR:OH	2.02	0.60
1:F:202:GLU:HA	1:I:272:ARG:HG3	1.76	0.60
1:G:33:ILE:HD12	1:G:312:TRP:NE1	2.15	0.60
1:H:9:VAL:HG13	1:H:322:ALA:HB1	1.83	0.60
1:I:44:ASN:C	1:I:67:LEU:HD12	2.23	0.60
1:K:175:ALA:HB3	1:K:282:LEU:HD22	1.83	0.60
1:L:179:PHE:HE1	1:L:261:PHE:CE2	2.18	0.60
1:N:44:ASN:C	1:N:67:LEU:HD12	2.22	0.60
1:N:45:LEU:HD22	1:N:58:LYS:HZ3	1.66	0.60
1:N:211:ILE:HA	1:N:220:LEU:HD21	1.82	0.60
1:O:130:ILE:HD11	1:O:152:ILE:HD12	1.84	0.60
1:P:130:ILE:HD11	1:P:152:ILE:HD12	1.84	0.60
1:A:188:LEU:HD13	1:A:198:GLU:HB3	1.84	0.59
1:A:283:ILE:HG13	1:A:305:ILE:HD11	1.83	0.59
1:B:211:ILE:HA	1:B:220:LEU:HD21	1.82	0.59
1:C:109:VAL:HG21	1:C:321:VAL:CG1	2.32	0.59
1:C:138:VAL:HG21	1:C:145:TYR:HE2	1.65	0.59
1:C:211:ILE:HA	1:C:220:LEU:HD21	1.82	0.59
1:C:240:MET:HE1	1:G:73:VAL:HB	1.83	0.59
1:C:240:MET:HG3	1:C:251:SER:HB2	1.83	0.59
1:D:188:LEU:HD13	1:D:198:GLU:HB3	1.84	0.59
1:E:44:ASN:CB	1:E:64:LYS:HZ1	2.15	0.59
1:F:36:VAL:CG2	1:F:38:PHE:CE2	2.85	0.59
1:F:125:GLU:O	1:F:129:TYR:CD1	2.55	0.59
1:F:240:MET:HG3	1:F:251:SER:HB2	1.82	0.59
1:G:44:ASN:C	1:G:67:LEU:HD12	2.23	0.59
1:G:272:ARG:HA	1:J:202:GLU:OE2	2.02	0.59
1:H:7:GLU:C	1:H:326:TYR:HE1	2.04	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:34:LYS:H	1:H:35:ARG:C	2.06	0.59
1:H:36:VAL:CG2	1:H:38:PHE:CE2	2.85	0.59
1:H:149:ILE:O	1:H:149:ILE:HG13	2.02	0.59
1:H:218:THR:O	1:H:219:ASP:HB2	2.02	0.59
1:J:34:LYS:H	1:J:35:ARG:C	2.06	0.59
1:J:110:LEU:HD22	1:J:126:TYR:OH	2.02	0.59
1:J:196:PRO:HB3	1:J:199:ARG:HH21	1.67	0.59
1:L:196:PRO:HB3	1:L:199:ARG:HH21	1.67	0.59
1:M:44:ASN:C	1:M:67:LEU:HD12	2.22	0.59
1:M:110:LEU:HD22	1:M:126:TYR:OH	2.02	0.59
1:M:320:LYS:CG	1:N:49:TYR:C	2.21	0.59
1:N:105:LYS:CD	1:N:148:GLU:HB2	2.27	0.59
1:N:320:LYS:CE	1:O:50:ILE:CG1	1.92	0.59
1:N:323:VAL:CG2	1:O:49:TYR:O	2.50	0.59
1:O:323:VAL:HG22	1:P:47:ASP:O	2.02	0.59
1:A:95:THR:CG2	1:A:136:ILE:HD13	2.22	0.59
1:A:100:SER:OG	1:A:101:ASN:HB2	2.01	0.59
1:A:175:ALA:HB3	1:A:282:LEU:HD22	1.83	0.59
1:A:190:ARG:O	1:A:193:VAL:HG12	2.03	0.59
1:A:247:ASP:OD2	1:F:320:LYS:HE2	2.02	0.59
1:B:109:VAL:HG21	1:B:321:VAL:CG1	2.32	0.59
1:B:283:ILE:HG13	1:B:305:ILE:HD11	1.83	0.59
1:C:7:GLU:C	1:C:326:TYR:HE1	2.04	0.59
1:C:190:ARG:O	1:C:193:VAL:HG12	2.03	0.59
1:D:184:MET:HG3	1:D:202:GLU:HB3	1.84	0.59
1:D:190:ARG:O	1:D:193:VAL:HG12	2.02	0.59
1:E:7:GLU:C	1:E:326:TYR:HE1	2.04	0.59
1:E:179:PHE:HE1	1:E:261:PHE:CE2	2.18	0.59
1:F:9:VAL:HG13	1:F:322:ALA:HB1	1.84	0.59
1:F:68:ILE:CD1	1:F:92:THR:HB	2.10	0.59
1:G:93:ALA:O	1:G:96:GLN:HG2	2.02	0.59
1:G:109:VAL:HG21	1:G:321:VAL:CG1	2.32	0.59
1:I:50:ILE:C	1:M:246:ILE:HA	2.20	0.59
1:I:93:ALA:O	1:I:96:GLN:HG2	2.02	0.59
1:I:125:GLU:O	1:I:129:TYR:CD1	2.55	0.59
1:J:93:ALA:O	1:J:96:GLN:HG2	2.02	0.59
1:K:44:ASN:C	1:K:67:LEU:HD12	2.23	0.59
1:P:177:ILE:HG13	1:P:177:ILE:O	2.03	0.59
1:A:34:LYS:H	1:A:35:ARG:C	2.06	0.59
1:A:109:VAL:HG21	1:A:321:VAL:CG1	2.32	0.59
1:B:37:ILE:CG1	1:B:312:TRP:CZ2	2.79	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:43:TYR:CD2	1:B:67:LEU:HD13	2.37	0.59
1:B:190:ARG:O	1:B:193:VAL:HG12	2.03	0.59
1:B:231:ALA:CA	1:G:308:ASN:ND2	2.64	0.59
1:C:246:ILE:HG13	1:H:320:LYS:HB3	1.84	0.59
1:D:34:LYS:H	1:D:35:ARG:C	2.06	0.59
1:D:109:VAL:HG21	1:D:321:VAL:CG1	2.32	0.59
1:F:44:ASN:C	1:F:67:LEU:HD12	2.23	0.59
1:F:49:TYR:CB	1:G:321:VAL:HA	2.25	0.59
1:F:109:VAL:HG21	1:F:321:VAL:CG1	2.32	0.59
1:F:203:GLU:H	1:I:272:ARG:CA	2.14	0.59
1:F:219:ASP:CG	1:G:277:ASP:CB	2.61	0.59
1:G:34:LYS:H	1:G:35:ARG:C	2.06	0.59
1:H:106:VAL:CG2	1:H:147:PHE:CZ	2.82	0.59
1:H:197:SER:O	1:K:203:GLU:CA	2.50	0.59
1:J:175:ALA:HB3	1:J:282:LEU:HD22	1.83	0.59
1:L:44:ASN:C	1:L:67:LEU:HD12	2.23	0.59
1:M:43:TYR:CD2	1:M:67:LEU:HD13	2.37	0.59
1:M:100:SER:OG	1:M:101:ASN:HB2	2.01	0.59
1:M:320:LYS:C	1:N:47:ASP:O	2.40	0.59
1:N:34:LYS:H	1:N:35:ARG:C	2.06	0.59
1:N:283:ILE:HG13	1:N:305:ILE:HD11	1.83	0.59
1:N:320:LYS:C	1:O:47:ASP:O	2.40	0.59
1:O:109:VAL:HG21	1:O:321:VAL:CG1	2.32	0.59
1:O:283:ILE:HG13	1:O:305:ILE:HD11	1.83	0.59
1:O:320:LYS:C	1:P:47:ASP:O	2.40	0.59
1:P:32:ASP:HB3	1:P:34:LYS:CB	2.30	0.59
1:P:44:ASN:CB	1:P:64:LYS:HZ1	2.13	0.59
1:P:208:ASP:HA	1:P:211:ILE:HG12	1.83	0.59
1:B:49:TYR:O	1:C:323:VAL:CG2	2.50	0.59
1:B:93:ALA:O	1:B:96:GLN:HG2	2.02	0.59
1:C:179:PHE:HE1	1:C:261:PHE:CE2	2.18	0.59
1:D:93:ALA:O	1:D:96:GLN:HG2	2.02	0.59
1:D:106:VAL:CG2	1:D:147:PHE:CZ	2.82	0.59
1:D:211:ILE:HA	1:D:220:LEU:HD21	1.82	0.59
1:E:34:LYS:H	1:E:35:ARG:C	2.06	0.59
1:E:177:ILE:HG13	1:E:177:ILE:O	2.02	0.59
1:E:190:ARG:O	1:E:193:VAL:HG12	2.03	0.59
1:F:177:ILE:HG13	1:F:177:ILE:O	2.02	0.59
1:F:184:MET:HG3	1:F:202:GLU:HB3	1.84	0.59
1:H:175:ALA:HB3	1:H:282:LEU:HD22	1.83	0.59
1:J:7:GLU:C	1:J:326:TYR:HE1	2.04	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:73:VAL:HB	1:N:240:MET:HE2	1.72	0.59
1:J:125:GLU:O	1:J:129:TYR:CD1	2.55	0.59
1:K:34:LYS:H	1:K:35:ARG:C	2.06	0.59
1:K:74:GLU:C	1:O:245:GLU:O	2.41	0.59
1:K:306:ILE:HG23	1:P:230:GLN:HB3	1.84	0.59
1:L:52:ILE:H	1:L:74:GLU:CG	2.06	0.59
1:L:105:LYS:CD	1:L:148:GLU:HB2	2.27	0.59
1:L:125:GLU:O	1:L:129:TYR:CD1	2.55	0.59
1:M:93:ALA:O	1:M:96:GLN:HG2	2.02	0.59
1:M:177:ILE:HG13	1:M:177:ILE:O	2.03	0.59
1:M:283:ILE:HG13	1:M:305:ILE:HD11	1.83	0.59
1:N:130:ILE:HD11	1:N:152:ILE:HD12	1.84	0.59
1:N:179:PHE:HE1	1:N:261:PHE:CE2	2.18	0.59
1:P:58:LYS:HZ2	1:P:65:GLU:HG2	1.65	0.59
1:A:7:GLU:C	1:A:326:TYR:HE1	2.04	0.59
1:A:43:TYR:CD2	1:A:67:LEU:HD13	2.37	0.59
1:A:47:ASP:O	1:B:323:VAL:HG22	2.02	0.59
1:A:95:THR:HG22	1:A:136:ILE:CD1	2.24	0.59
1:A:110:LEU:HD22	1:A:126:TYR:OH	2.02	0.59
1:A:211:ILE:HA	1:A:220:LEU:HD21	1.82	0.59
1:C:283:ILE:HG13	1:C:305:ILE:HD11	1.83	0.59
1:D:105:LYS:CD	1:D:148:GLU:HB2	2.27	0.59
1:D:246:ILE:HG13	1:H:49:TYR:CZ	2.37	0.59
1:D:246:ILE:CA	1:H:52:ILE:CG1	2.78	0.59
1:E:110:LEU:HD22	1:E:126:TYR:OH	2.02	0.59
1:E:188:LEU:HD13	1:E:198:GLU:HB3	1.84	0.59
1:F:43:TYR:HB3	1:F:78:GLU:HA	1.85	0.59
1:G:177:ILE:HG13	1:G:177:ILE:O	2.02	0.59
1:G:184:MET:HG3	1:G:202:GLU:HB3	1.84	0.59
1:G:196:PRO:HB3	1:G:199:ARG:HH21	1.67	0.59
1:H:44:ASN:C	1:H:67:LEU:HD12	2.23	0.59
1:H:110:LEU:HD22	1:H:126:TYR:OH	2.02	0.59
1:H:177:ILE:HG13	1:H:177:ILE:O	2.02	0.59
1:H:184:MET:HG3	1:H:202:GLU:HB3	1.84	0.59
1:H:196:PRO:HB3	1:H:199:ARG:HH21	1.67	0.59
1:I:50:ILE:O	1:M:246:ILE:CB	2.51	0.59
1:I:59:ILE:HD12	1:I:92:THR:HA	1.85	0.59
1:I:184:MET:HG3	1:I:202:GLU:HB3	1.84	0.59
1:I:196:PRO:HB3	1:I:199:ARG:HH21	1.67	0.59
1:I:218:THR:O	1:I:219:ASP:HB2	2.02	0.59
1:K:43:TYR:CD2	1:K:67:LEU:HD13	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:74:GLU:O	1:O:245:GLU:HB3	2.01	0.59
1:L:43:TYR:CD2	1:L:67:LEU:HD13	2.37	0.59
1:L:52:ILE:HG23	1:P:247:ASP:O	2.00	0.59
1:L:93:ALA:O	1:L:96:GLN:HG2	2.02	0.59
1:L:130:ILE:HD11	1:L:152:ILE:HD12	1.84	0.59
1:N:36:VAL:CG2	1:N:38:PHE:CE2	2.85	0.59
1:N:43:TYR:CD2	1:N:67:LEU:HD13	2.37	0.59
1:N:59:ILE:HD12	1:N:92:THR:HA	1.85	0.59
1:N:184:MET:HG3	1:N:202:GLU:HB3	1.84	0.59
1:O:110:LEU:HD22	1:O:126:TYR:OH	2.02	0.59
1:P:109:VAL:HG21	1:P:321:VAL:CG1	2.32	0.59
1:P:125:GLU:O	1:P:129:TYR:CD1	2.55	0.59
1:A:149:ILE:HG13	1:A:149:ILE:O	2.01	0.59
1:A:196:PRO:HB3	1:A:199:ARG:HH21	1.67	0.59
1:C:93:ALA:O	1:C:96:GLN:HG2	2.02	0.59
1:C:184:MET:HG3	1:C:202:GLU:HB3	1.84	0.59
1:E:48:GLY:CA	1:F:322:ALA:O	2.46	0.59
1:E:49:TYR:CB	1:F:321:VAL:HA	2.25	0.59
1:E:184:MET:HG3	1:E:202:GLU:HB3	1.84	0.59
1:F:34:LYS:H	1:F:35:ARG:C	2.06	0.59
1:G:175:ALA:HB3	1:G:282:LEU:HD22	1.83	0.59
1:G:198:GLU:HA	1:J:203:GLU:CB	2.24	0.59
1:H:43:TYR:CD2	1:H:67:LEU:HD13	2.37	0.59
1:H:43:TYR:HB3	1:H:78:GLU:HA	1.85	0.59
1:H:224:ASN:OD1	1:H:233:SER:CB	2.48	0.59
1:I:164:LEU:C	1:N:243:GLY:N	2.56	0.59
1:I:245:GLU:OE2	1:N:52:ILE:CD1	2.50	0.59
1:J:36:VAL:CG2	1:J:38:PHE:CE2	2.85	0.59
1:J:43:TYR:CD2	1:J:67:LEU:HD13	2.37	0.59
1:J:68:ILE:CD1	1:J:92:THR:HB	2.10	0.59
1:J:95:THR:CG2	1:J:136:ILE:HD13	2.23	0.59
1:J:307:THR:HA	1:O:231:ALA:CB	2.32	0.59
1:K:184:MET:HG3	1:K:202:GLU:HB3	1.84	0.59
1:L:34:LYS:H	1:L:35:ARG:C	2.06	0.59
1:L:43:TYR:HB3	1:L:78:GLU:HA	1.85	0.59
1:L:222:ASN:HB2	1:L:237:ASN:H	1.64	0.59
1:M:59:ILE:HD12	1:M:92:THR:HA	1.85	0.59
1:M:109:VAL:HG21	1:M:321:VAL:CG1	2.32	0.59
1:N:43:TYR:CE1	1:N:67:LEU:C	2.76	0.59
1:N:109:VAL:HG21	1:N:321:VAL:CG1	2.32	0.59
1:N:323:VAL:HG22	1:O:47:ASP:O	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:9:VAL:HG13	1:O:322:ALA:HB1	1.83	0.59
1:P:59:ILE:HD12	1:P:92:THR:HA	1.85	0.59
1:P:196:PRO:HB3	1:P:199:ARG:HH21	1.67	0.59
1:P:283:ILE:HG13	1:P:305:ILE:HD11	1.83	0.59
1:A:43:TYR:CZ	1:A:70:GLU:HG2	2.38	0.59
1:A:79:THR:OG1	1:B:191:ASN:C	2.41	0.59
1:B:9:VAL:HG13	1:B:322:ALA:HB1	1.83	0.59
1:B:106:VAL:CG2	1:B:147:PHE:CZ	2.82	0.59
1:B:149:ILE:O	1:B:149:ILE:HG13	2.01	0.59
1:B:230:GLN:C	1:G:308:ASN:CG	2.62	0.59
1:C:79:THR:OG1	1:D:191:ASN:C	2.41	0.59
1:C:125:GLU:O	1:C:129:TYR:CD1	2.55	0.59
1:C:227:THR:CG2	1:D:301:PRO:HD3	2.29	0.59
1:C:231:ALA:CA	1:H:308:ASN:ND2	2.64	0.59
1:D:33:ILE:HD12	1:D:312:TRP:NE1	2.15	0.59
1:D:196:PRO:HB3	1:D:199:ARG:HH21	1.67	0.59
1:F:218:THR:C	1:G:275:LYS:HB3	2.08	0.59
1:G:43:TYR:HB3	1:G:78:GLU:HA	1.85	0.59
1:H:119:ASN:ND2	1:K:119:ASN:CA	2.65	0.59
1:I:26:LYS:HG2	1:I:97:VAL:HG22	1.85	0.59
1:I:43:TYR:CD2	1:I:67:LEU:HD13	2.37	0.59
1:I:52:ILE:HG12	1:M:245:GLU:C	2.21	0.59
1:I:213:VAL:HG22	1:I:257:VAL:HG11	1.85	0.59
1:J:26:LYS:HG2	1:J:97:VAL:HG22	1.85	0.59
1:J:59:ILE:HD12	1:J:92:THR:HA	1.85	0.59
1:J:184:MET:HG3	1:J:202:GLU:HB3	1.84	0.59
1:K:45:LEU:CD2	1:K:58:LYS:HZ3	2.15	0.59
1:L:9:VAL:HG13	1:L:322:ALA:HB1	1.83	0.59
1:L:33:ILE:HD12	1:L:312:TRP:NE1	2.15	0.59
1:L:59:ILE:HD12	1:L:92:THR:HA	1.85	0.59
1:L:74:GLU:HA	1:P:245:GLU:O	2.03	0.59
1:L:218:THR:O	1:L:219:ASP:HB2	2.02	0.59
1:M:184:MET:HG3	1:M:202:GLU:HB3	1.84	0.59
1:M:190:ARG:O	1:M:193:VAL:HG12	2.02	0.59
1:M:208:ASP:HA	1:M:211:ILE:HG12	1.83	0.59
1:N:191:ASN:C	1:O:79:THR:OG1	2.41	0.59
1:O:32:ASP:HB3	1:O:34:LYS:CB	2.30	0.59
1:O:184:MET:HG3	1:O:202:GLU:HB3	1.84	0.59
1:O:208:ASP:HA	1:O:211:ILE:HG12	1.83	0.59
1:P:9:VAL:HG13	1:P:322:ALA:HB1	1.84	0.59
1:P:43:TYR:CZ	1:P:70:GLU:HG2	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:43:TYR:CE1	1:P:67:LEU:C	2.76	0.59
1:P:184:MET:HG3	1:P:202:GLU:HB3	1.84	0.59
1:A:9:VAL:HG13	1:A:322:ALA:HB1	1.83	0.59
1:A:44:ASN:CB	1:A:64:LYS:HZ1	2.13	0.59
1:A:59:ILE:HD12	1:A:92:THR:HA	1.85	0.59
1:C:34:LYS:H	1:C:35:ARG:C	2.06	0.59
1:C:43:TYR:HB3	1:C:78:GLU:HA	1.85	0.59
1:C:149:ILE:O	1:C:149:ILE:HG13	2.01	0.59
1:C:218:THR:O	1:C:219:ASP:HB2	2.02	0.59
1:C:222:ASN:HB2	1:C:237:ASN:H	1.64	0.59
1:D:130:ILE:HD11	1:D:152:ILE:HD12	1.84	0.59
1:E:43:TYR:CD2	1:E:67:LEU:HD13	2.37	0.59
1:E:59:ILE:HD12	1:E:92:THR:HA	1.85	0.59
1:F:175:ALA:HB3	1:F:282:LEU:HD22	1.83	0.59
1:F:188:LEU:HD13	1:F:198:GLU:HB3	1.84	0.59
1:F:190:ARG:O	1:F:193:VAL:HG12	2.03	0.59
1:G:36:VAL:CG2	1:G:38:PHE:CE2	2.85	0.59
1:G:125:GLU:O	1:G:129:TYR:CD1	2.55	0.59
1:H:190:ARG:O	1:H:193:VAL:HG12	2.03	0.59
1:I:175:ALA:HB3	1:I:282:LEU:HD22	1.84	0.59
1:I:190:ARG:O	1:I:193:VAL:HG12	2.03	0.59
1:J:44:ASN:C	1:J:67:LEU:HD12	2.23	0.59
1:K:43:TYR:CE1	1:K:67:LEU:C	2.76	0.59
1:K:43:TYR:HB3	1:K:78:GLU:HA	1.85	0.59
1:K:165:GLU:HG2	1:P:241:LYS:HB3	1.83	0.59
1:L:43:TYR:CZ	1:L:70:GLU:HG2	2.38	0.59
1:L:43:TYR:CE1	1:L:67:LEU:C	2.76	0.59
1:L:184:MET:HG3	1:L:202:GLU:HB3	1.84	0.59
1:M:130:ILE:HD11	1:M:152:ILE:HD12	1.84	0.59
1:N:9:VAL:HG13	1:N:322:ALA:HB1	1.83	0.59
1:P:22:ILE:HD12	1:P:27:LYS:HZ1	1.67	0.59
1:A:43:TYR:HB3	1:A:78:GLU:HA	1.85	0.59
1:A:177:ILE:HG13	1:A:177:ILE:O	2.02	0.59
1:B:26:LYS:HG2	1:B:97:VAL:HG22	1.85	0.59
1:B:33:ILE:HD12	1:B:312:TRP:NE1	2.15	0.59
1:B:43:TYR:HB3	1:B:78:GLU:HA	1.85	0.59
1:B:241:LYS:CA	1:G:166:GLN:C	2.70	0.59
1:B:308:ASN:HD21	1:F:241:LYS:CB	2.16	0.59
1:C:26:LYS:HG2	1:C:97:VAL:HG22	1.85	0.59
1:C:196:PRO:HB3	1:C:199:ARG:HH21	1.67	0.59
1:C:241:LYS:C	1:H:166:GLN:CA	2.57	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:109:VAL:HG21	1:E:321:VAL:CG1	2.32	0.59
1:F:36:VAL:N	1:F:312:TRP:HH2	2.01	0.59
1:F:50:ILE:CD1	1:G:320:LYS:HG2	2.33	0.59
1:F:219:ASP:CG	1:G:275:LYS:HZ2	2.04	0.59
1:F:225:LEU:CB	1:G:300:TYR:HD2	2.10	0.59
1:G:110:LEU:HD22	1:G:126:TYR:OH	2.02	0.59
1:G:202:GLU:OE2	1:J:272:ARG:HA	2.03	0.59
1:H:109:VAL:HG21	1:H:321:VAL:CG1	2.32	0.59
1:H:130:ILE:HD11	1:H:152:ILE:HD12	1.84	0.59
1:H:203:GLU:HB3	1:K:272:ARG:O	2.02	0.59
1:I:43:TYR:HB3	1:I:78:GLU:HA	1.85	0.59
1:I:110:LEU:HD22	1:I:126:TYR:OH	2.02	0.59
1:J:43:TYR:CE1	1:J:67:LEU:C	2.76	0.59
1:J:190:ARG:O	1:J:193:VAL:HG12	2.03	0.59
1:J:213:VAL:HG22	1:J:257:VAL:HG11	1.85	0.59
1:K:26:LYS:HG2	1:K:97:VAL:HG22	1.85	0.59
1:L:7:GLU:O	1:L:326:TYR:CE1	2.56	0.59
1:M:9:VAL:HG13	1:M:322:ALA:HB1	1.83	0.59
1:N:190:ARG:O	1:N:193:VAL:HG12	2.02	0.59
1:N:208:ASP:HA	1:N:211:ILE:HG12	1.83	0.59
1:O:59:ILE:HD12	1:O:92:THR:HA	1.85	0.59
1:O:196:PRO:HB3	1:O:199:ARG:HH21	1.67	0.59
1:A:11:THR:CG2	1:A:318:LEU:HB2	2.33	0.59
1:A:245:GLU:O	1:E:49:TYR:HE2	1.74	0.59
1:B:34:LYS:H	1:B:35:ARG:C	2.06	0.59
1:B:43:TYR:CZ	1:B:70:GLU:HG2	2.38	0.59
1:B:59:ILE:HD12	1:B:92:THR:HA	1.85	0.59
1:B:177:ILE:HG13	1:B:177:ILE:O	2.02	0.59
1:B:218:THR:O	1:B:219:ASP:HB2	2.03	0.59
1:B:224:ASN:OD1	1:B:233:SER:CB	2.48	0.59
1:C:9:VAL:HG13	1:C:322:ALA:HB1	1.83	0.59
1:C:33:ILE:HD12	1:C:312:TRP:NE1	2.16	0.59
1:C:37:ILE:CG1	1:C:312:TRP:CZ2	2.79	0.59
1:C:130:ILE:HD11	1:C:152:ILE:HD12	1.84	0.59
1:D:125:GLU:O	1:D:129:TYR:CD1	2.55	0.59
1:D:218:THR:O	1:D:219:ASP:HB2	2.03	0.59
1:D:283:ILE:HG13	1:D:305:ILE:HD11	1.83	0.59
1:E:11:THR:CG2	1:E:318:LEU:HB2	2.33	0.59
1:E:43:TYR:CZ	1:E:70:GLU:HG2	2.38	0.59
1:E:43:TYR:HB3	1:E:78:GLU:HA	1.85	0.59
1:E:50:ILE:CD1	1:F:320:LYS:HG2	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:43:TYR:CZ	1:F:70:GLU:HG2	2.38	0.59
1:G:43:TYR:CD2	1:G:67:LEU:HD13	2.37	0.59
1:G:213:VAL:HG22	1:G:257:VAL:HG11	1.85	0.59
1:I:11:THR:CG2	1:I:318:LEU:HB2	2.33	0.59
1:I:74:GLU:O	1:M:245:GLU:HB3	2.00	0.59
1:I:303:ASN:C	1:J:226:ILE:HD12	2.11	0.59
1:J:11:THR:CG2	1:J:318:LEU:HB2	2.33	0.59
1:J:43:TYR:CE2	1:J:67:LEU:CB	2.80	0.59
1:J:43:TYR:HB3	1:J:78:GLU:HA	1.85	0.59
1:J:245:GLU:OE2	1:O:52:ILE:HD13	2.03	0.59
1:K:49:TYR:CE2	1:O:246:ILE:N	2.71	0.59
1:K:59:ILE:HD12	1:K:92:THR:HA	1.85	0.59
1:K:130:ILE:HD11	1:K:152:ILE:HD12	1.84	0.59
1:L:26:LYS:HG2	1:L:97:VAL:HG22	1.85	0.59
1:L:109:VAL:HG21	1:L:321:VAL:CG1	2.32	0.59
1:M:11:THR:CG2	1:M:318:LEU:HB2	2.33	0.59
1:M:34:LYS:H	1:M:35:ARG:C	2.06	0.59
1:M:36:VAL:CG2	1:M:38:PHE:CE2	2.85	0.59
1:M:44:ASN:CB	1:M:64:LYS:HZ1	2.12	0.59
1:M:96:GLN:O	1:M:97:VAL:HB	2.03	0.59
1:M:125:GLU:O	1:M:129:TYR:CD1	2.55	0.59
1:N:177:ILE:HG13	1:N:177:ILE:O	2.03	0.59
1:O:43:TYR:CZ	1:O:70:GLU:HG2	2.38	0.59
1:P:11:THR:CG2	1:P:318:LEU:HB2	2.33	0.59
1:A:224:ASN:OD1	1:A:233:SER:CB	2.48	0.58
1:B:43:TYR:CE1	1:B:67:LEU:C	2.76	0.58
1:C:11:THR:CG2	1:C:318:LEU:HB2	2.33	0.58
1:C:177:ILE:HG13	1:C:177:ILE:O	2.02	0.58
1:C:230:GLN:CB	1:H:306:ILE:HG23	2.28	0.58
1:C:231:ALA:CB	1:H:307:THR:HA	2.32	0.58
1:C:248:THR:HG22	1:G:52:ILE:HG23	1.85	0.58
1:D:149:ILE:HG13	1:D:149:ILE:O	2.01	0.58
1:E:225:LEU:CB	1:F:300:TYR:HD2	2.10	0.58
1:G:50:ILE:CD1	1:H:320:LYS:HG2	2.33	0.58
1:H:7:GLU:O	1:H:326:TYR:CE1	2.56	0.58
1:H:43:TYR:CE1	1:H:67:LEU:C	2.76	0.58
1:H:213:VAL:HG22	1:H:257:VAL:HG11	1.85	0.58
1:I:43:TYR:CE1	1:I:67:LEU:C	2.76	0.58
1:I:282:LEU:HG	1:I:303:ASN:OD1	2.03	0.58
1:I:300:TYR:HD2	1:J:225:LEU:CB	2.10	0.58
1:J:49:TYR:CZ	1:N:246:ILE:N	2.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:43:TYR:CZ	1:K:70:GLU:HG2	2.38	0.58
1:L:36:VAL:N	1:L:312:TRP:HH2	2.01	0.58
1:M:105:LYS:CD	1:M:148:GLU:HB2	2.27	0.58
1:M:323:VAL:CG2	1:N:49:TYR:O	2.50	0.58
1:N:11:THR:CG2	1:N:318:LEU:HB2	2.33	0.58
1:N:32:ASP:HB3	1:N:34:LYS:CB	2.30	0.58
1:N:43:TYR:CE1	1:N:67:LEU:HB3	2.38	0.58
1:N:54:GLY:HA3	1:N:56:SER:H	1.64	0.58
1:N:96:GLN:O	1:N:97:VAL:HB	2.03	0.58
1:N:110:LEU:HD22	1:N:126:TYR:OH	2.02	0.58
1:O:34:LYS:H	1:O:35:ARG:C	2.06	0.58
1:O:43:TYR:CE1	1:O:67:LEU:HB3	2.38	0.58
1:P:45:LEU:HD22	1:P:58:LYS:HZ3	1.67	0.58
1:P:110:LEU:HD22	1:P:126:TYR:OH	2.02	0.58
1:A:36:VAL:CG2	1:A:38:PHE:CE2	2.85	0.58
1:A:173:ASN:OD1	1:A:188:LEU:HD21	2.04	0.58
1:A:218:THR:O	1:A:219:ASP:HB2	2.02	0.58
1:B:130:ILE:HD11	1:B:152:ILE:HD12	1.84	0.58
1:B:196:PRO:HB3	1:B:199:ARG:HH21	1.67	0.58
1:B:241:LYS:O	1:G:165:GLU:CB	2.51	0.58
1:D:9:VAL:HG13	1:D:322:ALA:HB1	1.83	0.58
1:D:43:TYR:HB3	1:D:78:GLU:HA	1.85	0.58
1:D:282:LEU:HG	1:D:303:ASN:OD1	2.04	0.58
1:E:26:LYS:HG2	1:E:97:VAL:HG22	1.85	0.58
1:E:95:THR:CG2	1:E:136:ILE:HD13	2.22	0.58
1:F:43:TYR:CD2	1:F:67:LEU:HD13	2.37	0.58
1:G:43:TYR:CZ	1:G:70:GLU:HG2	2.38	0.58
1:G:49:TYR:N	1:H:322:ALA:C	2.56	0.58
1:G:188:LEU:HD13	1:G:198:GLU:HB3	1.84	0.58
1:G:190:ARG:O	1:G:193:VAL:HG12	2.03	0.58
1:H:26:LYS:HG2	1:H:97:VAL:HG22	1.85	0.58
1:H:43:TYR:CE1	1:H:67:LEU:HB3	2.38	0.58
1:H:45:LEU:HD22	1:H:58:LYS:HZ3	1.67	0.58
1:H:188:LEU:HD13	1:H:198:GLU:HB3	1.84	0.58
1:I:177:ILE:HG13	1:I:177:ILE:O	2.02	0.58
1:I:322:ALA:C	1:J:49:TYR:N	2.56	0.58
1:J:109:VAL:HG21	1:J:321:VAL:CG1	2.32	0.58
1:J:275:LYS:HB3	1:K:218:THR:C	2.08	0.58
1:J:282:LEU:HG	1:J:303:ASN:OD1	2.03	0.58
1:J:320:LYS:HG2	1:K:50:ILE:CD1	2.33	0.58
1:K:7:GLU:O	1:K:326:TYR:CE1	2.56	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:43:TYR:CE1	1:K:67:LEU:HB3	2.38	0.58
1:K:173:ASN:OD1	1:K:188:LEU:HD21	2.03	0.58
1:K:308:ASN:HD22	1:P:231:ALA:CA	2.13	0.58
1:L:43:TYR:CE1	1:L:67:LEU:HB3	2.38	0.58
1:M:282:LEU:HG	1:M:303:ASN:OD1	2.04	0.58
1:M:320:LYS:O	1:N:47:ASP:O	2.21	0.58
1:O:7:GLU:O	1:O:326:TYR:CE1	2.56	0.58
1:O:44:ASN:C	1:O:67:LEU:HD12	2.23	0.58
1:O:96:GLN:O	1:O:97:VAL:HB	2.03	0.58
1:O:320:LYS:O	1:P:47:ASP:O	2.21	0.58
1:P:7:GLU:O	1:P:326:TYR:CE1	2.56	0.58
1:A:33:ILE:HD12	1:A:312:TRP:NE1	2.15	0.58
1:A:246:ILE:C	1:E:52:ILE:HG12	2.24	0.58
1:B:173:ASN:OD1	1:B:188:LEU:HD21	2.04	0.58
1:B:184:MET:HG3	1:B:202:GLU:HB3	1.84	0.58
1:B:248:THR:CG2	1:F:52:ILE:HA	2.26	0.58
1:C:282:LEU:HG	1:C:303:ASN:OD1	2.04	0.58
1:E:175:ALA:HB3	1:E:282:LEU:HD22	1.83	0.58
1:F:11:THR:CG2	1:F:318:LEU:HB2	2.33	0.58
1:F:59:ILE:HD12	1:F:92:THR:HA	1.85	0.58
1:G:26:LYS:HG2	1:G:97:VAL:HG22	1.85	0.58
1:G:59:ILE:HD12	1:G:92:THR:HA	1.85	0.58
1:G:183:ASN:OD1	1:J:197:SER:OG	2.11	0.58
1:H:59:ILE:HD12	1:H:92:THR:HA	1.85	0.58
1:H:203:GLU:HG2	1:K:197:SER:CB	2.33	0.58
1:H:203:GLU:HG2	1:K:197:SER:HB3	1.85	0.58
1:J:43:TYR:CZ	1:J:70:GLU:HG2	2.38	0.58
1:J:43:TYR:CE1	1:J:67:LEU:HB3	2.38	0.58
1:J:173:ASN:OD1	1:J:188:LEU:HD21	2.04	0.58
1:J:177:ILE:HG13	1:J:177:ILE:O	2.02	0.58
1:K:190:ARG:O	1:K:193:VAL:HG12	2.03	0.58
1:K:282:LEU:HG	1:K:303:ASN:OD1	2.03	0.58
1:K:320:LYS:C	1:P:246:ILE:HD11	2.24	0.58
1:K:322:ALA:O	1:L:48:GLY:CA	2.46	0.58
1:L:173:ASN:OD1	1:L:188:LEU:HD21	2.03	0.58
1:L:213:VAL:HG22	1:L:257:VAL:HG11	1.85	0.58
1:L:282:LEU:HG	1:L:303:ASN:OD1	2.03	0.58
1:N:43:TYR:CZ	1:N:70:GLU:HG2	2.38	0.58
1:O:177:ILE:HG13	1:O:177:ILE:O	2.03	0.58
1:O:211:ILE:HA	1:O:220:LEU:HD21	1.82	0.58
1:P:26:LYS:HG2	1:P:97:VAL:HG22	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:224:ASN:CA	1:B:277:ASP:OD2	2.43	0.58
1:B:282:LEU:HG	1:B:303:ASN:OD1	2.03	0.58
1:C:43:TYR:CZ	1:C:70:GLU:HG2	2.38	0.58
1:C:173:ASN:OD1	1:C:188:LEU:HD21	2.04	0.58
1:D:11:THR:CG2	1:D:318:LEU:HB2	2.33	0.58
1:D:43:TYR:CE1	1:D:67:LEU:C	2.76	0.58
1:E:43:TYR:CE1	1:E:67:LEU:HB3	2.38	0.58
1:E:52:ILE:H	1:E:74:GLU:CG	2.06	0.58
1:F:43:TYR:CE1	1:F:67:LEU:HB3	2.38	0.58
1:G:9:VAL:HG13	1:G:322:ALA:HB1	1.83	0.58
1:G:43:TYR:CE1	1:G:67:LEU:HB3	2.38	0.58
1:G:161:VAL:HG21	1:G:176:VAL:HG11	1.86	0.58
1:H:96:GLN:O	1:H:97:VAL:HB	2.03	0.58
1:H:161:VAL:HG21	1:H:176:VAL:HG11	1.86	0.58
1:I:36:VAL:N	1:I:312:TRP:HH2	2.01	0.58
1:I:106:VAL:CG2	1:I:147:PHE:CZ	2.82	0.58
1:K:11:THR:CG2	1:K:318:LEU:HB2	2.33	0.58
1:K:218:THR:O	1:K:219:ASP:HB2	2.02	0.58
1:M:32:ASP:HB3	1:M:34:LYS:CB	2.30	0.58
1:N:196:PRO:HB3	1:N:199:ARG:HH21	1.67	0.58
1:N:282:LEU:HG	1:N:303:ASN:OD1	2.04	0.58
1:P:96:GLN:O	1:P:97:VAL:HB	2.04	0.58
1:P:161:VAL:HG21	1:P:176:VAL:HG11	1.86	0.58
1:A:43:TYR:CE1	1:A:67:LEU:C	2.76	0.58
1:A:43:TYR:CE1	1:A:67:LEU:HB3	2.38	0.58
1:A:282:LEU:HG	1:A:303:ASN:OD1	2.04	0.58
1:B:240:MET:HE1	1:F:73:VAL:CG1	2.32	0.58
1:B:245:GLU:C	1:F:49:TYR:HE2	2.04	0.58
1:C:47:ASP:O	1:D:323:VAL:HG22	2.02	0.58
1:C:63:GLY:O	1:C:64:LYS:CB	2.52	0.58
1:C:110:LEU:HD22	1:C:126:TYR:OH	2.02	0.58
1:D:26:LYS:HG2	1:D:97:VAL:HG22	1.85	0.58
1:D:173:ASN:OD1	1:D:188:LEU:HD21	2.04	0.58
1:E:45:LEU:CD2	1:E:58:LYS:HZ3	2.15	0.58
1:E:219:ASP:C	1:F:277:ASP:HB3	2.11	0.58
1:F:26:LYS:HG2	1:F:97:VAL:HG22	1.85	0.58
1:F:271:LYS:HG2	1:I:202:GLU:HG3	1.86	0.58
1:G:43:TYR:CE1	1:G:67:LEU:C	2.76	0.58
1:G:225:LEU:CB	1:H:300:TYR:HD2	2.09	0.58
1:G:282:LEU:HG	1:G:303:ASN:OD1	2.03	0.58
1:H:203:GLU:N	1:K:272:ARG:CG	2.21	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:43:TYR:CE1	1:I:67:LEU:HB3	2.38	0.58
1:I:173:ASN:OD1	1:I:188:LEU:HD21	2.04	0.58
1:K:74:GLU:C	1:O:245:GLU:CB	2.63	0.58
1:K:177:ILE:HG13	1:K:177:ILE:O	2.02	0.58
1:K:320:LYS:HG2	1:L:50:ILE:CD1	2.33	0.58
1:M:26:LYS:HG2	1:M:97:VAL:HG22	1.85	0.58
1:M:196:PRO:HB3	1:M:199:ARG:HH21	1.68	0.58
1:N:7:GLU:O	1:N:326:TYR:CE1	2.56	0.58
1:N:213:VAL:HG22	1:N:257:VAL:HG11	1.85	0.58
1:O:43:TYR:CE1	1:O:67:LEU:C	2.76	0.58
1:O:190:ARG:O	1:O:193:VAL:HG12	2.03	0.58
1:O:282:LEU:HG	1:O:303:ASN:OD1	2.04	0.58
1:P:213:VAL:HG22	1:P:257:VAL:HG11	1.85	0.58
1:A:130:ILE:HD11	1:A:152:ILE:HD12	1.84	0.58
1:B:79:THR:OG1	1:C:191:ASN:C	2.41	0.58
1:C:59:ILE:HD12	1:C:92:THR:HA	1.85	0.58
1:C:100:SER:CB	1:C:101:ASN:HB2	2.34	0.58
1:H:43:TYR:CZ	1:H:70:GLU:HG2	2.38	0.58
1:H:173:ASN:OD1	1:H:188:LEU:HD21	2.04	0.58
1:H:202:GLU:HG3	1:K:271:LYS:HG2	1.86	0.58
1:H:211:ILE:HA	1:H:220:LEU:HD21	1.82	0.58
1:I:320:LYS:HG2	1:J:50:ILE:CD1	2.33	0.58
1:J:309:ASN:O	1:O:229:GLU:OE1	2.21	0.58
1:K:75:ASP:CG	1:O:245:GLU:OE1	2.41	0.58
1:L:50:ILE:CD1	1:P:246:ILE:C	2.71	0.58
1:L:190:ARG:O	1:L:193:VAL:HG12	2.03	0.58
1:M:43:TYR:CE1	1:M:67:LEU:HB3	2.38	0.58
1:M:84:LEU:HG	1:M:88:LEU:CD1	2.34	0.58
1:N:36:VAL:N	1:N:312:TRP:HH2	2.01	0.58
1:O:191:ASN:C	1:P:79:THR:OG1	2.41	0.58
1:P:10:MET:HB3	1:P:108:LEU:CD2	2.33	0.58
1:A:7:GLU:O	1:A:326:TYR:CE1	2.56	0.58
1:A:100:SER:CB	1:A:101:ASN:HB2	2.34	0.58
1:B:7:GLU:O	1:B:326:TYR:CE1	2.56	0.58
1:B:36:VAL:CG2	1:B:38:PHE:CE2	2.85	0.58
1:B:100:SER:CB	1:B:101:ASN:HB2	2.34	0.58
1:B:161:VAL:HG21	1:B:176:VAL:HG11	1.86	0.58
1:B:232:GLU:H	1:G:308:ASN:HD22	0.61	0.58
1:C:43:TYR:CE1	1:C:67:LEU:C	2.76	0.58
1:C:161:VAL:HG21	1:C:176:VAL:HG11	1.86	0.58
1:D:36:VAL:CG2	1:D:38:PHE:CE2	2.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:96:GLN:O	1:D:97:VAL:HB	2.03	0.58
1:D:240:MET:HE3	1:H:73:VAL:CG2	2.33	0.58
1:E:36:VAL:N	1:E:312:TRP:HH2	2.01	0.58
1:E:43:TYR:CE1	1:E:67:LEU:C	2.76	0.58
1:E:219:ASP:N	1:F:277:ASP:HB3	2.04	0.58
1:F:7:GLU:O	1:F:326:TYR:CE1	2.56	0.58
1:F:161:VAL:HG21	1:F:176:VAL:HG11	1.86	0.58
1:F:197:SER:CB	1:I:203:GLU:HG2	2.34	0.58
1:G:7:GLU:O	1:G:326:TYR:CE1	2.56	0.58
1:G:68:ILE:CD1	1:G:92:THR:HB	2.10	0.58
1:H:33:ILE:HD12	1:H:312:TRP:NE1	2.15	0.58
1:I:22:ILE:HD12	1:I:27:LYS:HZ1	1.69	0.58
1:J:7:GLU:O	1:J:326:TYR:CE1	2.56	0.58
1:K:95:THR:CG2	1:K:136:ILE:HD13	2.22	0.58
1:K:105:LYS:CD	1:K:148:GLU:HB2	2.27	0.58
1:K:161:VAL:HG21	1:K:176:VAL:HG11	1.86	0.58
1:L:161:VAL:HG21	1:L:176:VAL:HG11	1.86	0.58
1:L:177:ILE:HG13	1:L:177:ILE:O	2.02	0.58
1:M:43:TYR:CZ	1:M:70:GLU:HG2	2.38	0.58
1:M:191:ASN:C	1:N:79:THR:OG1	2.41	0.58
1:O:10:MET:HB3	1:O:108:LEU:CD2	2.33	0.58
1:O:26:LYS:HG2	1:O:97:VAL:HG22	1.85	0.58
1:O:161:VAL:HG21	1:O:176:VAL:HG11	1.86	0.58
1:P:43:TYR:CE1	1:P:67:LEU:HB3	2.38	0.58
1:P:119:ASN:HD22	1:P:121:LYS:HG2	1.69	0.58
1:A:26:LYS:HG2	1:A:97:VAL:HG22	1.85	0.58
1:A:50:ILE:CG1	1:B:320:LYS:CE	1.92	0.58
1:A:161:VAL:HG21	1:A:176:VAL:HG11	1.86	0.58
1:A:184:MET:HG3	1:A:202:GLU:HB3	1.84	0.58
1:B:95:THR:HG22	1:B:136:ILE:CD1	2.24	0.58
1:C:7:GLU:O	1:C:326:TYR:CE1	2.56	0.58
1:D:59:ILE:HD12	1:D:92:THR:HA	1.85	0.58
1:D:63:GLY:O	1:D:64:LYS:CB	2.52	0.58
1:D:105:LYS:HZ2	1:D:148:GLU:HB3	1.67	0.58
1:D:177:ILE:HG13	1:D:177:ILE:O	2.03	0.58
1:D:308:ASN:HD21	1:H:241:LYS:CB	2.16	0.58
1:E:7:GLU:O	1:E:326:TYR:CE1	2.56	0.58
1:F:48:GLY:CA	1:G:322:ALA:O	2.46	0.58
1:F:173:ASN:OD1	1:F:188:LEU:HD21	2.03	0.58
1:F:272:ARG:O	1:I:203:GLU:HB3	2.03	0.58
1:G:48:GLY:CA	1:H:322:ALA:O	2.46	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:173:ASN:OD1	1:G:188:LEU:HD21	2.04	0.58
1:I:44:ASN:CB	1:I:64:LYS:HZ1	2.17	0.58
1:J:84:LEU:HG	1:J:88:LEU:CD1	2.34	0.58
1:M:43:TYR:HB3	1:M:78:GLU:HA	1.85	0.58
1:M:320:LYS:HG2	1:N:50:ILE:CG2	2.34	0.58
1:N:119:ASN:HD22	1:N:121:LYS:HG2	1.69	0.58
1:N:161:VAL:HG21	1:N:176:VAL:HG11	1.86	0.58
1:O:173:ASN:OD1	1:O:188:LEU:HD21	2.04	0.58
1:P:190:ARG:O	1:P:193:VAL:HG12	2.03	0.58
1:A:229:GLU:HG3	1:F:309:ASN:OD1	1.58	0.58
1:B:63:GLY:O	1:B:64:LYS:CB	2.51	0.58
1:C:36:VAL:N	1:C:312:TRP:HH2	2.01	0.58
1:C:47:ASP:O	1:D:320:LYS:O	2.21	0.58
1:C:119:ASN:HD22	1:C:121:LYS:HG2	1.69	0.58
1:D:22:ILE:HD12	1:D:27:LYS:HZ1	1.68	0.58
1:D:37:ILE:CG1	1:D:312:TRP:CZ2	2.79	0.58
1:E:173:ASN:OD1	1:E:188:LEU:HD21	2.04	0.58
1:F:43:TYR:CE1	1:F:67:LEU:C	2.76	0.58
1:F:106:VAL:HG21	1:F:147:PHE:CE1	2.39	0.58
1:F:282:LEU:HG	1:F:303:ASN:OD1	2.04	0.58
1:G:63:GLY:O	1:G:64:LYS:CB	2.52	0.58
1:G:84:LEU:HG	1:G:88:LEU:CD1	2.34	0.58
1:G:202:GLU:HG3	1:J:271:LYS:CG	2.32	0.58
1:H:11:THR:CG2	1:H:318:LEU:HB2	2.33	0.58
1:H:84:LEU:HG	1:H:88:LEU:CD1	2.34	0.58
1:I:43:TYR:CZ	1:I:70:GLU:HG2	2.38	0.58
1:I:161:VAL:HG21	1:I:176:VAL:HG11	1.86	0.58
1:J:161:VAL:HG21	1:J:176:VAL:HG11	1.86	0.58
1:K:84:LEU:HG	1:K:88:LEU:CD1	2.34	0.58
1:L:10:MET:HB3	1:L:108:LEU:CD2	2.33	0.58
1:L:133:ASN:HD22	1:L:148:GLU:CA	2.11	0.58
1:M:7:GLU:O	1:M:326:TYR:CE1	2.56	0.58
1:M:10:MET:HB3	1:M:108:LEU:CD2	2.33	0.58
1:M:301:PRO:HD3	1:N:227:THR:CG2	2.30	0.58
1:N:10:MET:HB3	1:N:108:LEU:CD2	2.33	0.58
1:N:43:TYR:HB3	1:N:78:GLU:HA	1.85	0.58
1:N:84:LEU:HG	1:N:88:LEU:CD1	2.34	0.58
1:P:95:THR:HG22	1:P:136:ILE:CD1	2.24	0.58
1:P:282:LEU:HG	1:P:303:ASN:OD1	2.04	0.58
1:A:222:ASN:HB2	1:A:237:ASN:H	1.64	0.58
1:B:43:TYR:CE2	1:B:67:LEU:CB	2.80	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:50:ILE:CG1	1:C:320:LYS:CE	1.92	0.58
1:B:308:ASN:ND2	1:F:241:LYS:CB	2.67	0.58
1:C:96:GLN:O	1:C:97:VAL:HB	2.03	0.58
1:D:161:VAL:HG21	1:D:176:VAL:HG11	1.86	0.58
1:E:109:VAL:CB	1:E:322:ALA:HB2	2.26	0.58
1:E:161:VAL:HG21	1:E:176:VAL:HG11	1.86	0.58
1:E:213:VAL:HG22	1:E:257:VAL:HG11	1.85	0.58
1:E:218:THR:N	1:F:278:GLN:OE1	2.37	0.58
1:F:213:VAL:HG22	1:F:257:VAL:HG11	1.85	0.58
1:F:218:THR:N	1:G:278:GLN:OE1	2.37	0.58
1:H:202:GLU:HG2	1:K:272:ARG:CA	2.34	0.58
1:H:282:LEU:HG	1:H:303:ASN:OD1	2.04	0.58
1:I:84:LEU:HG	1:I:88:LEU:CD1	2.34	0.58
1:J:52:ILE:H	1:J:74:GLU:CG	2.06	0.58
1:K:300:TYR:CE2	1:L:225:LEU:CB	2.87	0.58
1:K:324:ALA:C	1:L:46:GLU:HG3	2.24	0.58
1:M:43:TYR:CE1	1:M:67:LEU:C	2.76	0.58
1:M:112:CYS:HG	1:M:122:ALA:HB1	1.68	0.58
1:M:119:ASN:HD22	1:M:121:LYS:HG2	1.69	0.58
1:M:161:VAL:HG21	1:M:176:VAL:HG11	1.86	0.58
1:N:320:LYS:HG2	1:O:50:ILE:CG2	2.34	0.58
1:O:106:VAL:HG21	1:O:147:PHE:CE1	2.39	0.58
1:O:320:LYS:HG2	1:P:50:ILE:CG2	2.34	0.58
1:P:173:ASN:OD1	1:P:188:LEU:HD21	2.04	0.58
1:A:47:ASP:O	1:B:320:LYS:O	2.21	0.57
1:B:106:VAL:HG21	1:B:147:PHE:CE1	2.39	0.57
1:C:68:ILE:CD1	1:C:92:THR:HB	2.10	0.57
1:D:7:GLU:O	1:D:326:TYR:CE1	2.56	0.57
1:D:43:TYR:CZ	1:D:70:GLU:HG2	2.38	0.57
1:D:68:ILE:CD1	1:D:92:THR:HB	2.10	0.57
1:E:96:GLN:O	1:E:97:VAL:HB	2.03	0.57
1:G:96:GLN:O	1:G:97:VAL:HB	2.03	0.57
1:H:106:VAL:HG21	1:H:147:PHE:CE1	2.39	0.57
1:I:106:VAL:HG21	1:I:147:PHE:CE1	2.39	0.57
1:J:52:ILE:CB	1:N:247:ASP:O	2.52	0.57
1:J:300:TYR:CE2	1:K:225:LEU:CB	2.87	0.57
1:J:322:ALA:O	1:K:48:GLY:CA	2.46	0.57
1:J:324:ALA:C	1:K:46:GLU:HG3	2.24	0.57
1:L:11:THR:CG2	1:L:318:LEU:HB2	2.33	0.57
1:L:45:LEU:CD2	1:L:58:LYS:HZ3	2.17	0.57
1:L:84:LEU:HG	1:L:88:LEU:CD1	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:173:ASN:OD1	1:N:188:LEU:HD21	2.04	0.57
1:O:11:THR:CG2	1:O:318:LEU:HB2	2.33	0.57
1:O:95:THR:HG22	1:O:136:ILE:CD1	2.24	0.57
1:O:213:VAL:HG22	1:O:257:VAL:HG11	1.85	0.57
1:P:218:THR:O	1:P:219:ASP:HB2	2.03	0.57
1:A:12:LEU:O	1:A:110:LEU:HG	2.05	0.57
1:A:106:VAL:HG21	1:A:147:PHE:CE1	2.39	0.57
1:B:43:TYR:CE1	1:B:67:LEU:HB3	2.38	0.57
1:B:96:GLN:O	1:B:97:VAL:HB	2.03	0.57
1:B:246:ILE:HB	1:G:320:LYS:HG2	1.85	0.57
1:C:45:LEU:HD22	1:C:58:LYS:HZ3	1.69	0.57
1:C:50:ILE:CG2	1:D:320:LYS:HG2	2.34	0.57
1:D:100:SER:CB	1:D:101:ASN:HB2	2.34	0.57
1:D:224:ASN:OD1	1:D:233:SER:CB	2.48	0.57
1:D:246:ILE:CG1	1:H:50:ILE:O	2.48	0.57
1:E:218:THR:O	1:E:219:ASP:HB2	2.02	0.57
1:F:219:ASP:N	1:G:277:ASP:HB3	2.05	0.57
1:G:11:THR:CG2	1:G:318:LEU:HB2	2.33	0.57
1:G:218:THR:N	1:H:278:GLN:OE1	2.37	0.57
1:G:225:LEU:HB3	1:H:300:TYR:CE2	2.38	0.57
1:I:7:GLU:O	1:I:326:TYR:CE1	2.56	0.57
1:I:96:GLN:O	1:I:97:VAL:HB	2.03	0.57
1:I:324:ALA:C	1:J:46:GLU:HG3	2.24	0.57
1:J:100:SER:CB	1:J:101:ASN:HB2	2.34	0.57
1:K:100:SER:CB	1:K:101:ASN:HB2	2.34	0.57
1:L:100:SER:CB	1:L:101:ASN:HB2	2.34	0.57
1:P:34:LYS:H	1:P:35:ARG:C	2.06	0.57
1:A:245:GLU:O	1:E:52:ILE:HG12	2.04	0.57
1:B:11:THR:CG2	1:B:318:LEU:HB2	2.33	0.57
1:B:12:LEU:O	1:B:110:LEU:HG	2.05	0.57
1:C:12:LEU:O	1:C:110:LEU:HG	2.05	0.57
1:D:119:ASN:HD22	1:D:121:LYS:HG2	1.69	0.57
1:E:46:GLU:HG3	1:F:324:ALA:C	2.24	0.57
1:E:84:LEU:HG	1:E:88:LEU:CD1	2.34	0.57
1:E:219:ASP:CA	1:E:224:ASN:HB2	1.80	0.57
1:E:282:LEU:HG	1:E:303:ASN:OD1	2.03	0.57
1:F:46:GLU:HG3	1:G:324:ALA:C	2.24	0.57
1:F:49:TYR:N	1:G:322:ALA:C	2.56	0.57
1:F:84:LEU:HG	1:F:88:LEU:CD1	2.34	0.57
1:F:225:LEU:HB3	1:G:300:TYR:CE2	2.38	0.57
1:G:224:ASN:OD1	1:G:233:SER:CB	2.48	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:225:LEU:CB	1:H:300:TYR:CE2	2.87	0.57
1:I:119:ASN:HD22	1:I:121:LYS:HG2	1.69	0.57
1:I:300:TYR:CE2	1:J:225:LEU:CB	2.87	0.57
1:J:278:GLN:HB3	1:K:218:THR:OG1	1.87	0.57
1:K:33:ILE:HD12	1:K:312:TRP:NE1	2.15	0.57
1:K:106:VAL:HG21	1:K:147:PHE:CE1	2.39	0.57
1:K:278:GLN:OE1	1:L:218:THR:N	2.37	0.57
1:L:52:ILE:HA	1:P:248:THR:CG2	2.27	0.57
1:L:75:ASP:CG	1:P:245:GLU:OE1	2.42	0.57
1:M:100:SER:CB	1:M:101:ASN:HB2	2.34	0.57
1:M:324:ALA:HB1	1:N:46:GLU:CA	1.92	0.57
1:N:52:ILE:H	1:N:74:GLU:CG	2.06	0.57
1:N:95:THR:HG22	1:N:136:ILE:CD1	2.24	0.57
1:N:106:VAL:HG21	1:N:147:PHE:CE1	2.39	0.57
1:O:43:TYR:HB3	1:O:78:GLU:HA	1.85	0.57
1:O:169:PHE:CD2	1:P:79:THR:HG22	2.40	0.57
1:A:96:GLN:O	1:A:97:VAL:HB	2.03	0.57
1:A:119:ASN:HD22	1:A:121:LYS:HG2	1.69	0.57
1:A:227:THR:CG2	1:B:301:PRO:HD3	2.30	0.57
1:B:213:VAL:HG22	1:B:257:VAL:HG11	1.85	0.57
1:C:241:LYS:O	1:H:165:GLU:CD	2.42	0.57
1:D:10:MET:HB3	1:D:108:LEU:CD2	2.33	0.57
1:E:191:ASN:O	1:E:192:CYS:SG	2.62	0.57
1:H:191:ASN:O	1:H:192:CYS:SG	2.63	0.57
1:I:100:SER:CB	1:I:101:ASN:HB2	2.34	0.57
1:J:218:THR:O	1:J:219:ASP:HB2	2.02	0.57
1:J:278:GLN:OE1	1:K:218:THR:N	2.37	0.57
1:K:213:VAL:HG22	1:K:257:VAL:HG11	1.85	0.57
1:K:308:ASN:CG	1:P:231:ALA:N	2.51	0.57
1:L:75:ASP:N	1:P:245:GLU:CG	2.61	0.57
1:M:173:ASN:OD1	1:M:188:LEU:HD21	2.04	0.57
1:N:100:SER:CB	1:N:101:ASN:HB2	2.34	0.57
1:P:12:LEU:O	1:P:110:LEU:HG	2.05	0.57
1:P:109:VAL:CB	1:P:322:ALA:HB2	2.26	0.57
1:A:10:MET:HB3	1:A:108:LEU:CD2	2.33	0.57
1:A:143:LYS:HE3	1:A:145:TYR:HE2	1.70	0.57
1:B:10:MET:HB3	1:B:108:LEU:CD2	2.33	0.57
1:B:143:LYS:HE3	1:B:145:TYR:HE2	1.70	0.57
1:B:308:ASN:CG	1:F:231:ALA:CB	2.70	0.57
1:C:10:MET:HB3	1:C:108:LEU:CD2	2.33	0.57
1:D:43:TYR:CE1	1:D:67:LEU:HB3	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:119:ASN:HD22	1:E:121:LYS:HG2	1.69	0.57
1:E:225:LEU:HB3	1:F:300:TYR:CE2	2.38	0.57
1:G:46:GLU:HG3	1:H:324:ALA:C	2.24	0.57
1:G:219:ASP:CA	1:G:224:ASN:HB2	1.80	0.57
1:H:95:THR:HG22	1:H:136:ILE:CD1	2.24	0.57
1:I:68:ILE:CD1	1:I:92:THR:HB	2.10	0.57
1:I:278:GLN:OE1	1:J:218:THR:N	2.37	0.57
1:I:320:LYS:HA	1:N:246:ILE:CG1	2.33	0.57
1:J:306:ILE:HG13	1:O:230:GLN:HB2	1.86	0.57
1:L:105:LYS:HZ2	1:L:148:GLU:HB3	1.68	0.57
1:L:106:VAL:HG21	1:L:147:PHE:CE1	2.39	0.57
1:M:63:GLY:O	1:M:64:LYS:CB	2.51	0.57
1:M:95:THR:HG22	1:M:136:ILE:CD1	2.24	0.57
1:M:169:PHE:CD2	1:N:79:THR:HG22	2.40	0.57
1:P:100:SER:CB	1:P:101:ASN:HB2	2.34	0.57
1:A:242:LYS:O	1:F:166:GLN:HA	2.01	0.57
1:B:47:ASP:O	1:C:323:VAL:CA	2.48	0.57
1:B:50:ILE:CG2	1:C:320:LYS:HG2	2.34	0.57
1:B:79:THR:HG22	1:C:169:PHE:CD2	2.40	0.57
1:B:222:ASN:HB2	1:B:237:ASN:H	1.64	0.57
1:C:241:LYS:CA	1:H:166:GLN:O	2.49	0.57
1:D:12:LEU:O	1:D:110:LEU:HG	2.05	0.57
1:D:248:THR:CG2	1:H:52:ILE:HD12	2.32	0.57
1:D:248:THR:HA	1:H:52:ILE:HG23	1.86	0.57
1:H:43:TYR:CE2	1:H:67:LEU:CB	2.80	0.57
1:H:63:GLY:O	1:H:64:LYS:CB	2.52	0.57
1:H:268:LEU:HD22	1:K:271:LYS:NZ	2.20	0.57
1:H:272:ARG:CG	1:K:202:GLU:CA	2.79	0.57
1:J:312:TRP:HE3	1:J:315:CYS:SG	2.28	0.57
1:K:191:ASN:O	1:K:192:CYS:SG	2.63	0.57
1:L:12:LEU:O	1:L:110:LEU:HG	2.05	0.57
1:M:12:LEU:O	1:M:110:LEU:HG	2.05	0.57
1:O:45:LEU:CD2	1:O:58:LYS:HZ3	2.18	0.57
1:P:43:TYR:HB3	1:P:78:GLU:HA	1.85	0.57
1:A:84:LEU:HG	1:A:88:LEU:CD1	2.34	0.57
1:B:44:ASN:CB	1:B:64:LYS:HZ1	2.15	0.57
1:E:105:LYS:CD	1:E:148:GLU:HB2	2.27	0.57
1:E:133:ASN:HD22	1:E:148:GLU:CA	2.11	0.57
1:F:104:ASN:OD1	1:F:106:VAL:HG13	2.05	0.57
1:F:225:LEU:CB	1:G:300:TYR:CE2	2.87	0.57
1:G:191:ASN:O	1:G:192:CYS:SG	2.63	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:219:ASP:CB	1:I:224:ASN:ND2	2.65	0.57
1:J:36:VAL:N	1:J:312:TRP:HH2	2.01	0.57
1:L:96:GLN:O	1:L:97:VAL:HB	2.03	0.57
1:L:119:ASN:HD22	1:L:121:LYS:HG2	1.69	0.57
1:M:33:ILE:HD12	1:M:312:TRP:NE1	2.15	0.57
1:N:169:PHE:CD2	1:O:79:THR:HG22	2.40	0.57
1:N:222:ASN:HB2	1:N:237:ASN:H	1.64	0.57
1:O:170:LYS:HD3	1:P:78:GLU:C	2.25	0.57
1:P:36:VAL:CG2	1:P:38:PHE:CE2	2.85	0.57
1:P:106:VAL:HG21	1:P:147:PHE:CE1	2.39	0.57
1:B:79:THR:HG23	1:C:192:CYS:HB2	1.77	0.57
1:C:95:THR:HG22	1:C:136:ILE:CD1	2.24	0.57
1:C:106:VAL:HG21	1:C:147:PHE:CE1	2.39	0.57
1:C:213:VAL:HG22	1:C:257:VAL:HG11	1.85	0.57
1:C:312:TRP:HE3	1:C:315:CYS:SG	2.28	0.57
1:D:104:ASN:OD1	1:D:106:VAL:HG13	2.05	0.57
1:E:225:LEU:CB	1:F:300:TYR:CE2	2.87	0.57
1:F:191:ASN:O	1:F:192:CYS:SG	2.63	0.57
1:H:37:ILE:CG1	1:H:312:TRP:CZ2	2.79	0.57
1:H:100:SER:CB	1:H:101:ASN:HB2	2.34	0.57
1:H:312:TRP:HE3	1:H:315:CYS:SG	2.28	0.57
1:I:211:ILE:HA	1:I:220:LEU:HD21	1.82	0.57
1:I:312:TRP:HE3	1:I:315:CYS:SG	2.28	0.57
1:J:191:ASN:O	1:J:192:CYS:SG	2.63	0.57
1:K:52:ILE:CD1	1:O:248:THR:HG23	2.35	0.57
1:K:119:ASN:HD22	1:K:121:LYS:HG2	1.69	0.57
1:L:95:THR:CG2	1:L:136:ILE:HD13	2.22	0.57
1:L:104:ASN:OD1	1:L:106:VAL:HG13	2.05	0.57
1:M:218:THR:O	1:M:219:ASP:HB2	2.03	0.57
1:N:26:LYS:HG2	1:N:97:VAL:HG22	1.85	0.57
1:N:224:ASN:OD1	1:N:233:SER:CB	2.48	0.57
1:N:312:TRP:HE3	1:N:315:CYS:SG	2.28	0.57
1:O:12:LEU:O	1:O:110:LEU:HG	2.05	0.57
1:O:100:SER:CB	1:O:101:ASN:HB2	2.34	0.57
1:A:50:ILE:CG2	1:B:320:LYS:HG2	2.34	0.57
1:A:63:GLY:O	1:A:64:LYS:CB	2.52	0.57
1:B:36:VAL:N	1:B:312:TRP:HH2	2.01	0.57
1:C:143:LYS:HE3	1:C:145:TYR:HE2	1.70	0.57
1:C:191:ASN:O	1:C:192:CYS:SG	2.63	0.57
1:C:224:ASN:OD1	1:C:233:SER:CB	2.48	0.57
1:D:43:TYR:CE2	1:D:67:LEU:CB	2.80	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:97:VAL:O	1:D:97:VAL:HG12	2.05	0.57
1:E:219:ASP:CB	1:E:224:ASN:ND2	2.65	0.57
1:G:104:ASN:OD1	1:G:106:VAL:HG13	2.05	0.57
1:G:106:VAL:HG21	1:G:147:PHE:CE1	2.39	0.57
1:H:12:LEU:O	1:H:110:LEU:HG	2.05	0.57
1:J:22:ILE:HD12	1:J:27:LYS:HZ1	1.70	0.57
1:K:36:VAL:CG2	1:K:38:PHE:CE2	2.85	0.57
1:M:45:LEU:CD2	1:M:58:LYS:HZ3	2.18	0.57
1:M:68:ILE:CD1	1:M:92:THR:HB	2.10	0.57
1:M:170:LYS:HD3	1:N:78:GLU:C	2.25	0.57
1:M:213:VAL:HG22	1:M:257:VAL:HG11	1.85	0.57
1:M:224:ASN:OD1	1:M:233:SER:CB	2.48	0.57
1:M:312:TRP:HE3	1:M:315:CYS:SG	2.28	0.57
1:N:143:LYS:HE3	1:N:145:TYR:HE2	1.70	0.57
1:N:218:THR:O	1:N:219:ASP:HB2	2.03	0.57
1:O:43:TYR:CE2	1:O:67:LEU:CB	2.80	0.57
1:O:63:GLY:O	1:O:64:LYS:CB	2.52	0.57
1:O:312:TRP:HE3	1:O:315:CYS:SG	2.28	0.57
1:P:52:ILE:H	1:P:74:GLU:CG	2.06	0.57
1:C:245:GLU:OE2	1:G:78:GLU:OE1	2.22	0.57
1:D:143:LYS:HE3	1:D:145:TYR:HE2	1.70	0.57
1:D:213:VAL:HG22	1:D:257:VAL:HG11	1.85	0.57
1:E:100:SER:CB	1:E:101:ASN:HB2	2.34	0.57
1:F:312:TRP:HE3	1:F:315:CYS:SG	2.28	0.57
1:G:44:ASN:CB	1:G:64:LYS:HZ1	2.17	0.57
1:I:7:GLU:OE1	1:I:326:TYR:CD1	2.58	0.57
1:I:166:GLN:O	1:N:241:LYS:CA	2.41	0.57
1:I:222:ASN:HB2	1:I:237:ASN:CA	2.35	0.57
1:J:7:GLU:OE1	1:J:326:TYR:CD1	2.58	0.57
1:J:222:ASN:HB2	1:J:237:ASN:CA	2.35	0.57
1:K:7:GLU:OE1	1:K:326:TYR:CD1	2.58	0.57
1:L:130:ILE:HG13	1:L:152:ILE:HG21	1.87	0.57
1:L:312:TRP:HE3	1:L:315:CYS:SG	2.28	0.57
1:N:33:ILE:HD12	1:N:312:TRP:NE1	2.16	0.57
1:N:58:LYS:HZ2	1:N:65:GLU:HG2	1.66	0.57
1:P:63:GLY:O	1:P:64:LYS:CB	2.52	0.57
1:P:312:TRP:HE3	1:P:315:CYS:SG	2.28	0.57
1:A:22:ILE:HD12	1:A:27:LYS:HZ1	1.69	0.56
1:A:52:ILE:H	1:A:74:GLU:CG	2.06	0.56
1:C:49:TYR:CE1	1:D:320:LYS:HD2	2.36	0.56
1:E:219:ASP:HA	1:F:277:ASP:CG	2.00	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:312:TRP:HE3	1:E:315:CYS:SG	2.28	0.56
1:F:96:GLN:O	1:F:97:VAL:HB	2.04	0.56
1:G:100:SER:CB	1:G:101:ASN:HB2	2.34	0.56
1:G:202:GLU:HA	1:J:272:ARG:HG3	1.68	0.56
1:G:203:GLU:CD	1:J:274:PHE:CZ	2.78	0.56
1:G:219:ASP:N	1:H:277:ASP:HB3	2.05	0.56
1:G:312:TRP:HE3	1:G:315:CYS:SG	2.28	0.56
1:H:36:VAL:N	1:H:312:TRP:HH2	2.01	0.56
1:H:68:ILE:CD1	1:H:92:THR:HB	2.10	0.56
1:H:119:ASN:HD22	1:H:121:LYS:HG2	1.69	0.56
1:H:130:ILE:HG13	1:H:152:ILE:HG21	1.87	0.56
1:H:132:GLY:N	1:H:149:ILE:HD11	2.20	0.56
1:H:272:ARG:CA	1:K:203:GLU:H	2.16	0.56
1:I:104:ASN:OD1	1:I:106:VAL:HG13	2.05	0.56
1:I:132:GLY:N	1:I:149:ILE:HD11	2.20	0.56
1:K:34:LYS:CA	1:K:35:ARG:C	2.74	0.56
1:K:63:GLY:O	1:K:64:LYS:CB	2.52	0.56
1:K:222:ASN:HB2	1:K:237:ASN:CA	2.35	0.56
1:K:312:TRP:HE3	1:K:315:CYS:SG	2.28	0.56
1:L:7:GLU:OE1	1:L:326:TYR:CD1	2.58	0.56
1:N:109:VAL:CB	1:N:322:ALA:HB2	2.26	0.56
1:O:33:ILE:HD12	1:O:312:TRP:NE1	2.15	0.56
1:O:119:ASN:HD22	1:O:121:LYS:HG2	1.69	0.56
1:O:143:LYS:HE3	1:O:145:TYR:HE2	1.70	0.56
1:O:218:THR:O	1:O:219:ASP:HB2	2.02	0.56
1:O:224:ASN:OD1	1:O:233:SER:CB	2.49	0.56
1:A:34:LYS:CA	1:A:35:ARG:C	2.74	0.56
1:A:213:VAL:HG22	1:A:257:VAL:HG11	1.85	0.56
1:A:247:ASP:N	1:E:50:ILE:CD1	2.68	0.56
1:B:84:LEU:HG	1:B:88:LEU:CD1	2.34	0.56
1:B:132:GLY:N	1:B:149:ILE:HD11	2.20	0.56
1:C:7:GLU:OE1	1:C:326:TYR:CD1	2.58	0.56
1:C:34:LYS:CA	1:C:35:ARG:C	2.74	0.56
1:C:36:VAL:CG2	1:C:38:PHE:CE2	2.85	0.56
1:C:43:TYR:CE1	1:C:67:LEU:HB3	2.38	0.56
1:C:97:VAL:O	1:C:97:VAL:HG12	2.05	0.56
1:C:231:ALA:H	1:H:308:ASN:HD21	1.51	0.56
1:D:132:GLY:N	1:D:149:ILE:HD11	2.20	0.56
1:D:312:TRP:HE3	1:D:315:CYS:SG	2.28	0.56
1:E:43:TYR:CE2	1:E:67:LEU:CB	2.81	0.56
1:F:100:SER:CB	1:F:101:ASN:HB2	2.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:12:LEU:O	1:G:110:LEU:HG	2.05	0.56
1:G:37:ILE:CG1	1:G:312:TRP:CZ2	2.79	0.56
1:G:204:HIS:CE1	1:J:274:PHE:CD1	2.77	0.56
1:H:222:ASN:HB2	1:H:237:ASN:CA	2.35	0.56
1:I:12:LEU:O	1:I:110:LEU:HG	2.05	0.56
1:I:82:THR:CB	1:I:84:LEU:HD23	2.29	0.56
1:I:322:ALA:O	1:J:48:GLY:CA	2.46	0.56
1:J:63:GLY:O	1:J:64:LYS:CB	2.52	0.56
1:J:203:GLU:O	1:J:203:GLU:CD	2.44	0.56
1:J:322:ALA:C	1:K:49:TYR:N	2.56	0.56
1:M:104:ASN:OD1	1:M:106:VAL:HG13	2.05	0.56
1:M:132:GLY:N	1:M:149:ILE:HD11	2.20	0.56
1:N:222:ASN:HB2	1:N:237:ASN:CA	2.35	0.56
1:O:109:VAL:CB	1:O:322:ALA:HB2	2.26	0.56
1:O:222:ASN:HB2	1:O:237:ASN:CA	2.35	0.56
1:P:7:GLU:OE1	1:P:326:TYR:CD1	2.58	0.56
1:P:132:GLY:N	1:P:149:ILE:HD11	2.21	0.56
1:A:222:ASN:HB2	1:A:237:ASN:CA	2.35	0.56
1:B:78:GLU:C	1:C:170:LYS:HD3	2.25	0.56
1:B:119:ASN:HD22	1:B:121:LYS:HG2	1.69	0.56
1:B:312:TRP:HE3	1:B:315:CYS:SG	2.28	0.56
1:C:104:ASN:OD1	1:C:106:VAL:HG13	2.05	0.56
1:C:246:ILE:CA	1:G:52:ILE:HG12	2.35	0.56
1:D:191:ASN:O	1:D:192:CYS:SG	2.62	0.56
1:D:222:ASN:HB2	1:D:237:ASN:CA	2.36	0.56
1:E:97:VAL:O	1:E:97:VAL:HG12	2.05	0.56
1:E:104:ASN:OD1	1:E:106:VAL:HG13	2.05	0.56
1:E:132:GLY:N	1:E:149:ILE:HD11	2.21	0.56
1:F:34:LYS:CA	1:F:35:ARG:C	2.74	0.56
1:F:58:LYS:HZ2	1:F:65:GLU:HG2	1.70	0.56
1:F:97:VAL:HG12	1:F:97:VAL:O	2.05	0.56
1:F:132:GLY:N	1:F:149:ILE:HD11	2.21	0.56
1:F:201:ILE:CG2	1:I:272:ARG:NH1	2.34	0.56
1:F:222:ASN:HB2	1:F:237:ASN:CA	2.35	0.56
1:G:132:GLY:N	1:G:149:ILE:HD11	2.20	0.56
1:G:203:GLU:OE1	1:J:274:PHE:CE1	2.56	0.56
1:G:222:ASN:HB2	1:G:237:ASN:CA	2.35	0.56
1:H:34:LYS:CA	1:H:35:ARG:C	2.74	0.56
1:H:52:ILE:H	1:H:74:GLU:CG	2.06	0.56
1:I:53:GLU:HG3	1:M:252:THR:HG21	1.87	0.56
1:I:63:GLY:O	1:I:64:LYS:CB	2.52	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:168:ASN:HB3	1:J:71:GLN:HG3	1.86	0.56
1:I:191:ASN:O	1:I:192:CYS:SG	2.63	0.56
1:J:96:GLN:O	1:J:97:VAL:HB	2.04	0.56
1:J:132:GLY:N	1:J:149:ILE:HD11	2.20	0.56
1:K:7:GLU:CG	1:K:326:TYR:CE1	2.89	0.56
1:K:12:LEU:O	1:K:110:LEU:HG	2.05	0.56
1:K:96:GLN:O	1:K:97:VAL:HB	2.03	0.56
1:K:104:ASN:OD1	1:K:106:VAL:HG13	2.05	0.56
1:K:132:GLY:N	1:K:149:ILE:HD11	2.21	0.56
1:K:133:ASN:HD22	1:K:148:GLU:CA	2.11	0.56
1:K:203:GLU:CD	1:K:203:GLU:O	2.44	0.56
1:L:63:GLY:O	1:L:64:LYS:CB	2.52	0.56
1:L:119:ASN:CG	1:L:120:ALA:H	2.09	0.56
1:L:186:PHE:HE2	1:L:269:ILE:HD11	1.70	0.56
1:L:203:GLU:O	1:L:203:GLU:CD	2.44	0.56
1:L:219:ASP:CA	1:L:224:ASN:HB2	1.80	0.56
1:L:222:ASN:HB2	1:L:237:ASN:CA	2.35	0.56
1:L:224:ASN:OD1	1:L:233:SER:CB	2.48	0.56
1:M:7:GLU:OE1	1:M:326:TYR:CD1	2.58	0.56
1:M:34:LYS:CA	1:M:35:ARG:C	2.74	0.56
1:M:97:VAL:O	1:M:97:VAL:HG12	2.05	0.56
1:M:130:ILE:HG13	1:M:152:ILE:HG21	1.87	0.56
1:M:192:CYS:HB2	1:N:79:THR:HG23	1.77	0.56
1:N:12:LEU:O	1:N:110:LEU:HG	2.05	0.56
1:N:63:GLY:O	1:N:64:LYS:CB	2.51	0.56
1:N:130:ILE:HG13	1:N:152:ILE:HG21	1.87	0.56
1:O:36:VAL:N	1:O:312:TRP:HH2	2.01	0.56
1:O:130:ILE:HG13	1:O:152:ILE:HG21	1.87	0.56
1:O:323:VAL:CA	1:P:47:ASP:O	2.48	0.56
1:P:104:ASN:OD1	1:P:106:VAL:HG13	2.05	0.56
1:P:211:ILE:HA	1:P:220:LEU:HD21	1.82	0.56
1:P:224:ASN:OD1	1:P:233:SER:CB	2.48	0.56
1:A:219:ASP:CB	1:A:224:ASN:ND2	2.64	0.56
1:A:312:TRP:HE3	1:A:315:CYS:SG	2.28	0.56
1:B:7:GLU:OE1	1:B:326:TYR:CD1	2.58	0.56
1:C:84:LEU:HG	1:C:88:LEU:CD1	2.34	0.56
1:D:7:GLU:OE1	1:D:326:TYR:CD1	2.58	0.56
1:D:203:GLU:O	1:D:203:GLU:CD	2.44	0.56
1:E:109:VAL:HG21	1:E:318:LEU:O	2.05	0.56
1:E:222:ASN:HB2	1:E:237:ASN:CA	2.35	0.56
1:F:203:GLU:CD	1:F:203:GLU:O	2.44	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:203:GLU:CD	1:G:203:GLU:O	2.44	0.56
1:H:97:VAL:O	1:H:97:VAL:HG12	2.05	0.56
1:H:104:ASN:OD1	1:H:106:VAL:HG13	2.05	0.56
1:H:202:GLU:HG3	1:K:271:LYS:CE	2.33	0.56
1:I:7:GLU:CG	1:I:326:TYR:CE1	2.89	0.56
1:I:277:ASP:CG	1:J:219:ASP:HA	2.00	0.56
1:J:109:VAL:HG21	1:J:318:LEU:O	2.06	0.56
1:J:168:ASN:HB3	1:K:71:GLN:HG3	1.86	0.56
1:K:130:ILE:HG13	1:K:152:ILE:HG21	1.87	0.56
1:K:168:ASN:HB3	1:L:71:GLN:HG3	1.86	0.56
1:M:106:VAL:HG21	1:M:147:PHE:CE1	2.39	0.56
1:M:203:GLU:CD	1:M:203:GLU:O	2.44	0.56
1:N:109:VAL:HG21	1:N:318:LEU:O	2.06	0.56
1:P:33:ILE:HD12	1:P:312:TRP:NE1	2.15	0.56
1:P:34:LYS:CA	1:P:35:ARG:C	2.74	0.56
1:P:130:ILE:HG13	1:P:152:ILE:HG21	1.87	0.56
1:A:241:LYS:HB3	1:F:165:GLU:CG	2.35	0.56
1:B:109:VAL:HG21	1:B:318:LEU:O	2.06	0.56
1:C:232:GLU:CG	1:H:308:ASN:HB2	2.35	0.56
1:D:95:THR:HG22	1:D:136:ILE:CD1	2.24	0.56
1:D:106:VAL:HG21	1:D:147:PHE:CE1	2.39	0.56
1:E:36:VAL:CG1	1:E:96:GLN:NE2	2.68	0.56
1:F:22:ILE:HG22	1:F:35:ARG:CB	2.35	0.56
1:F:211:ILE:HA	1:F:220:LEU:HD21	1.82	0.56
1:G:97:VAL:O	1:G:97:VAL:HG12	2.05	0.56
1:I:119:ASN:CG	1:I:120:ALA:H	2.09	0.56
1:K:10:MET:HB3	1:K:108:LEU:CD2	2.33	0.56
1:K:37:ILE:CG1	1:K:312:TRP:CZ2	2.79	0.56
1:K:143:LYS:HE3	1:K:145:TYR:HE2	1.70	0.56
1:M:143:LYS:HE3	1:M:145:TYR:HE2	1.70	0.56
1:N:104:ASN:OD1	1:N:106:VAL:HG13	2.05	0.56
1:N:132:GLY:N	1:N:149:ILE:HD11	2.21	0.56
1:N:203:GLU:O	1:N:203:GLU:CD	2.44	0.56
1:N:240:MET:SD	1:N:251:SER:HB2	2.46	0.56
1:O:34:LYS:CA	1:O:35:ARG:C	2.74	0.56
1:O:109:VAL:HG21	1:O:318:LEU:O	2.06	0.56
1:O:132:GLY:N	1:O:149:ILE:HD11	2.20	0.56
1:O:192:CYS:HB2	1:P:79:THR:HG23	1.77	0.56
1:P:203:GLU:O	1:P:203:GLU:CD	2.44	0.56
1:P:240:MET:SD	1:P:251:SER:HB2	2.46	0.56
1:A:132:GLY:N	1:A:149:ILE:HD11	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:203:GLU:O	1:A:203:GLU:CD	2.44	0.56
1:B:51:ASP:O	1:G:245:GLU:OE2	2.24	0.56
1:B:97:VAL:O	1:B:97:VAL:HG12	2.05	0.56
1:B:203:GLU:O	1:B:203:GLU:CD	2.44	0.56
1:B:240:MET:SD	1:B:251:SER:HB2	2.46	0.56
1:D:246:ILE:HG13	1:H:49:TYR:CE1	2.40	0.56
1:E:7:GLU:OE1	1:E:326:TYR:CD1	2.58	0.56
1:E:12:LEU:O	1:E:110:LEU:HG	2.05	0.56
1:E:203:GLU:O	1:E:203:GLU:CD	2.44	0.56
1:F:12:LEU:O	1:F:110:LEU:HG	2.05	0.56
1:F:119:ASN:HD22	1:F:121:LYS:HG2	1.69	0.56
1:G:45:LEU:CD2	1:G:58:LYS:HZ3	2.19	0.56
1:G:130:ILE:HG13	1:G:152:ILE:HG21	1.87	0.56
1:G:271:LYS:CG	1:J:202:GLU:HG3	2.32	0.56
1:I:37:ILE:HG13	1:I:312:TRP:HZ2	1.65	0.56
1:I:95:THR:HG22	1:I:136:ILE:CD1	2.24	0.56
1:J:166:GLN:C	1:O:241:LYS:CA	2.74	0.56
1:L:43:TYR:CZ	1:L:67:LEU:CB	2.87	0.56
1:L:143:LYS:HE3	1:L:145:TYR:HE2	1.70	0.56
1:M:222:ASN:HB2	1:M:237:ASN:CA	2.35	0.56
1:N:34:LYS:CA	1:N:35:ARG:C	2.74	0.56
1:N:97:VAL:HG12	1:N:97:VAL:O	2.05	0.56
1:N:191:ASN:O	1:N:192:CYS:SG	2.63	0.56
1:O:7:GLU:OE1	1:O:326:TYR:CD1	2.58	0.56
1:O:119:ASN:CG	1:O:120:ALA:H	2.09	0.56
1:P:222:ASN:HB2	1:P:237:ASN:CA	2.35	0.56
1:A:104:ASN:OD1	1:A:106:VAL:HG13	2.05	0.56
1:A:109:VAL:HG21	1:A:318:LEU:O	2.06	0.56
1:C:79:THR:HG23	1:D:192:CYS:HB2	1.77	0.56
1:D:119:ASN:CG	1:D:120:ALA:H	2.09	0.56
1:F:71:GLN:HG3	1:G:168:ASN:HB3	1.86	0.56
1:F:197:SER:HB3	1:I:203:GLU:HG2	1.88	0.56
1:F:271:LYS:CE	1:I:202:GLU:HG3	2.34	0.56
1:G:274:PHE:CZ	1:J:203:GLU:CD	2.78	0.56
1:I:240:MET:SD	1:I:251:SER:HB2	2.46	0.56
1:J:104:ASN:OD1	1:J:106:VAL:HG13	2.05	0.56
1:J:143:LYS:HE3	1:J:145:TYR:HE2	1.70	0.56
1:J:240:MET:SD	1:J:251:SER:HB2	2.46	0.56
1:K:166:GLN:C	1:P:241:LYS:CA	2.72	0.56
1:K:240:MET:SD	1:K:251:SER:HB2	2.46	0.56
1:M:52:ILE:H	1:M:74:GLU:CG	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:109:VAL:HG21	1:M:318:LEU:O	2.06	0.56
1:M:191:ASN:O	1:M:192:CYS:SG	2.62	0.56
1:N:7:GLU:OE1	1:N:326:TYR:CD1	2.58	0.56
1:O:7:GLU:CG	1:O:326:TYR:CE1	2.89	0.56
1:P:7:GLU:CG	1:P:326:TYR:CE1	2.89	0.56
1:A:130:ILE:HG13	1:A:152:ILE:HG21	1.87	0.56
1:B:52:ILE:O	1:B:74:GLU:HG3	2.06	0.56
1:B:104:ASN:OD1	1:B:106:VAL:HG13	2.05	0.56
1:B:130:ILE:HG13	1:B:152:ILE:HG21	1.87	0.56
1:C:219:ASP:CB	1:C:224:ASN:ND2	2.65	0.56
1:E:71:GLN:HG3	1:F:168:ASN:HB3	1.86	0.56
1:E:106:VAL:HG21	1:E:147:PHE:CE1	2.39	0.56
1:F:109:VAL:HG21	1:F:318:LEU:O	2.06	0.56
1:G:71:GLN:HG3	1:H:168:ASN:HB3	1.86	0.56
1:H:203:GLU:CD	1:H:203:GLU:O	2.44	0.56
1:I:165:GLU:HG3	1:I:305:ILE:CD1	2.36	0.56
1:I:224:ASN:OD1	1:I:233:SER:CB	2.49	0.56
1:J:34:LYS:CA	1:J:35:ARG:C	2.74	0.56
1:J:97:VAL:O	1:J:97:VAL:HG12	2.05	0.56
1:K:109:VAL:HG21	1:K:318:LEU:O	2.06	0.56
1:K:211:ILE:HA	1:K:220:LEU:HD21	1.82	0.56
1:K:288:THR:CG2	1:K:292:LEU:HD13	2.36	0.56
1:L:37:ILE:HD11	1:L:312:TRP:NE1	2.21	0.56
1:L:240:MET:SD	1:L:251:SER:HB2	2.46	0.56
1:N:52:ILE:O	1:N:74:GLU:HG3	2.06	0.56
1:N:68:ILE:CD1	1:N:92:THR:HB	2.10	0.56
1:N:170:LYS:HD3	1:O:78:GLU:C	2.25	0.56
1:P:109:VAL:HG21	1:P:318:LEU:O	2.06	0.56
1:P:119:ASN:CG	1:P:120:ALA:H	2.09	0.56
1:P:143:LYS:HE3	1:P:145:TYR:HE2	1.70	0.56
1:A:52:ILE:O	1:A:74:GLU:HG3	2.06	0.56
1:A:79:THR:HG22	1:B:169:PHE:CD2	2.39	0.56
1:C:52:ILE:H	1:C:74:GLU:CG	2.06	0.56
1:C:222:ASN:HB2	1:C:237:ASN:CA	2.35	0.56
1:C:240:MET:SD	1:C:251:SER:HB2	2.46	0.56
1:D:7:GLU:CG	1:D:326:TYR:CE1	2.89	0.56
1:D:34:LYS:CA	1:D:35:ARG:C	2.74	0.56
1:D:165:GLU:HG3	1:D:305:ILE:CD1	2.36	0.56
1:D:240:MET:SD	1:D:251:SER:HB2	2.46	0.56
1:E:33:ILE:C	1:E:35:ARG:HB2	2.27	0.56
1:E:48:GLY:C	1:F:323:VAL:N	2.58	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:130:ILE:HG13	1:E:152:ILE:HG21	1.87	0.56
1:F:7:GLU:CG	1:F:326:TYR:CE1	2.89	0.56
1:F:33:ILE:C	1:F:35:ARG:HB2	2.27	0.56
1:F:37:ILE:HD11	1:F:312:TRP:NE1	2.21	0.56
1:F:52:ILE:H	1:F:74:GLU:CG	2.06	0.56
1:F:133:ASN:HD22	1:F:148:GLU:CA	2.11	0.56
1:F:218:THR:O	1:F:219:ASP:HB2	2.02	0.56
1:F:219:ASP:HA	1:G:277:ASP:CG	2.00	0.56
1:G:219:ASP:HA	1:H:277:ASP:CG	2.00	0.56
1:H:109:VAL:HG21	1:H:318:LEU:O	2.06	0.56
1:I:22:ILE:HG22	1:I:35:ARG:CB	2.35	0.56
1:I:37:ILE:HD11	1:I:312:TRP:NE1	2.21	0.56
1:I:97:VAL:O	1:I:97:VAL:HG12	2.05	0.56
1:I:203:GLU:CD	1:I:203:GLU:O	2.44	0.56
1:I:288:THR:CG2	1:I:292:LEU:HD13	2.36	0.56
1:I:300:TYR:CE2	1:J:225:LEU:HB3	2.38	0.56
1:J:37:ILE:HG13	1:J:312:TRP:HZ2	1.65	0.56
1:J:165:GLU:HG3	1:J:305:ILE:CD1	2.36	0.56
1:L:7:GLU:CG	1:L:326:TYR:CE1	2.89	0.56
1:L:34:LYS:CA	1:L:35:ARG:C	2.74	0.56
1:M:52:ILE:O	1:M:74:GLU:HG3	2.06	0.56
1:N:192:CYS:HB2	1:O:79:THR:HG23	1.77	0.56
1:O:36:VAL:CG2	1:O:38:PHE:CE2	2.85	0.56
1:O:97:VAL:O	1:O:97:VAL:HG12	2.05	0.56
1:A:78:GLU:C	1:B:170:LYS:HD3	2.25	0.56
1:B:288:THR:CG2	1:B:292:LEU:HD13	2.36	0.56
1:C:119:ASN:CG	1:C:120:ALA:H	2.09	0.56
1:C:130:ILE:HG13	1:C:152:ILE:HG21	1.87	0.56
1:C:132:GLY:N	1:C:149:ILE:HD11	2.21	0.56
1:C:203:GLU:O	1:C:203:GLU:CD	2.44	0.56
1:C:246:ILE:CB	1:G:50:ILE:O	2.54	0.56
1:D:37:ILE:HG13	1:D:312:TRP:HZ2	1.65	0.56
1:D:245:GLU:HG2	1:H:72:GLY:O	2.05	0.56
1:E:22:ILE:HG22	1:E:35:ARG:CB	2.35	0.56
1:E:240:MET:SD	1:E:251:SER:HB2	2.46	0.56
1:G:7:GLU:OE1	1:G:326:TYR:CD1	2.58	0.56
1:G:33:ILE:C	1:G:35:ARG:HB2	2.27	0.56
1:G:109:VAL:HG21	1:G:318:LEU:O	2.06	0.56
1:G:219:ASP:CB	1:G:224:ASN:ND2	2.65	0.56
1:H:7:GLU:OE1	1:H:326:TYR:CD1	2.58	0.56
1:H:33:ILE:C	1:H:35:ARG:HB2	2.27	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:119:ASN:CG	1:H:120:ALA:H	2.09	0.56
1:I:143:LYS:HE3	1:I:145:TYR:HE2	1.70	0.56
1:I:275:LYS:HZ3	1:J:219:ASP:CG	1.98	0.56
1:J:7:GLU:CG	1:J:326:TYR:CE1	2.89	0.56
1:J:10:MET:HB3	1:J:108:LEU:CD2	2.33	0.56
1:J:130:ILE:HG13	1:J:152:ILE:HG21	1.87	0.56
1:L:36:VAL:CG2	1:L:38:PHE:CE2	2.85	0.56
1:L:37:ILE:CG1	1:L:312:TRP:CZ2	2.79	0.56
1:L:259:GLU:OE2	1:L:263:LYS:HE3	2.06	0.56
1:O:104:ASN:OD1	1:O:106:VAL:HG13	2.05	0.56
1:O:203:GLU:O	1:O:203:GLU:CD	2.44	0.56
1:A:37:ILE:HD11	1:A:312:TRP:NE1	2.21	0.55
1:B:34:LYS:CA	1:B:35:ARG:C	2.74	0.55
1:C:47:ASP:C	1:D:322:ALA:C	2.62	0.55
1:C:229:GLU:OE1	1:H:309:ASN:O	2.12	0.55
1:C:240:MET:HE1	1:G:73:VAL:HG21	1.80	0.55
1:C:288:THR:CG2	1:C:292:LEU:HD13	2.36	0.55
1:D:84:LEU:HG	1:D:88:LEU:CD1	2.34	0.55
1:D:130:ILE:HG13	1:D:152:ILE:HG21	1.87	0.55
1:D:288:THR:CG2	1:D:292:LEU:HD13	2.36	0.55
1:E:7:GLU:CG	1:E:326:TYR:CE1	2.89	0.55
1:E:34:LYS:CA	1:E:35:ARG:C	2.74	0.55
1:E:119:ASN:CG	1:E:120:ALA:H	2.09	0.55
1:F:7:GLU:OE1	1:F:326:TYR:CD1	2.58	0.55
1:G:240:MET:SD	1:G:251:SER:HB2	2.46	0.55
1:H:37:ILE:HG13	1:H:312:TRP:HZ2	1.65	0.55
1:H:268:LEU:HD22	1:K:271:LYS:CE	2.36	0.55
1:H:288:THR:CG2	1:H:292:LEU:HD13	2.36	0.55
1:I:33:ILE:C	1:I:35:ARG:HB2	2.27	0.55
1:I:75:ASP:HA	1:M:245:GLU:HB3	1.75	0.55
1:I:109:VAL:HG21	1:I:318:LEU:O	2.06	0.55
1:J:12:LEU:O	1:J:110:LEU:HG	2.05	0.55
1:J:33:ILE:C	1:J:35:ARG:HB2	2.27	0.55
1:J:36:VAL:CG1	1:J:96:GLN:NE2	2.68	0.55
1:J:43:TYR:CZ	1:J:67:LEU:CB	2.87	0.55
1:J:74:GLU:O	1:N:245:GLU:O	2.24	0.55
1:J:224:ASN:OD1	1:J:233:SER:CB	2.48	0.55
1:K:97:VAL:O	1:K:97:VAL:HG12	2.05	0.55
1:K:165:GLU:HG3	1:K:305:ILE:CD1	2.36	0.55
1:L:44:ASN:CB	1:L:64:LYS:HZ1	2.19	0.55
1:L:97:VAL:O	1:L:97:VAL:HG12	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:7:GLU:CG	1:N:326:TYR:CE1	2.89	0.55
1:O:49:TYR:HE2	1:O:74:GLU:O	1.90	0.55
1:A:7:GLU:OE1	1:A:326:TYR:CD1	2.58	0.55
1:A:97:VAL:O	1:A:97:VAL:HG12	2.05	0.55
1:B:222:ASN:HB2	1:B:237:ASN:CA	2.35	0.55
1:B:241:LYS:CB	1:G:165:GLU:OE2	2.55	0.55
1:B:246:ILE:C	1:F:50:ILE:CD1	2.75	0.55
1:C:22:ILE:HD12	1:C:27:LYS:HZ1	1.70	0.55
1:C:79:THR:HG22	1:D:169:PHE:CD2	2.40	0.55
1:C:245:GLU:O	1:G:74:GLU:C	2.45	0.55
1:C:248:THR:HG23	1:G:52:ILE:HD13	1.88	0.55
1:D:109:VAL:HG21	1:D:318:LEU:O	2.06	0.55
1:F:36:VAL:CG1	1:F:96:GLN:NE2	2.68	0.55
1:F:37:ILE:CG1	1:F:312:TRP:CZ2	2.79	0.55
1:G:34:LYS:CA	1:G:35:ARG:C	2.74	0.55
1:H:7:GLU:CG	1:H:326:TYR:CE1	2.89	0.55
1:I:320:LYS:O	1:N:246:ILE:HD11	1.93	0.55
1:J:106:VAL:HG21	1:J:147:PHE:CE1	2.39	0.55
1:J:293:LYS:O	1:J:296:ILE:HG22	2.07	0.55
1:K:33:ILE:C	1:K:35:ARG:HB2	2.27	0.55
1:L:165:GLU:HG3	1:L:305:ILE:CD1	2.36	0.55
1:L:219:ASP:CB	1:L:224:ASN:ND2	2.64	0.55
1:M:7:GLU:CG	1:M:326:TYR:CE1	2.89	0.55
1:M:37:ILE:HD11	1:M:312:TRP:NE1	2.21	0.55
1:A:36:VAL:CG1	1:A:96:GLN:NE2	2.68	0.55
1:A:79:THR:OG1	1:B:192:CYS:HB3	2.07	0.55
1:A:288:THR:CG2	1:A:292:LEU:HD13	2.36	0.55
1:B:7:GLU:CG	1:B:326:TYR:CE1	2.89	0.55
1:B:37:ILE:HD11	1:B:312:TRP:NE1	2.21	0.55
1:C:7:GLU:CG	1:C:326:TYR:CE1	2.89	0.55
1:C:50:ILE:CG1	1:D:320:LYS:CE	1.92	0.55
1:C:109:VAL:HG21	1:C:318:LEU:O	2.06	0.55
1:E:35:ARG:NH2	1:E:316:GLU:HG2	2.22	0.55
1:E:37:ILE:HD11	1:E:312:TRP:NE1	2.21	0.55
1:E:63:GLY:O	1:E:64:LYS:CB	2.52	0.55
1:E:288:THR:CG2	1:E:292:LEU:HD13	2.36	0.55
1:F:35:ARG:NH2	1:F:316:GLU:HG2	2.22	0.55
1:F:240:MET:SD	1:F:251:SER:HB2	2.46	0.55
1:G:37:ILE:HD11	1:G:312:TRP:NE1	2.21	0.55
1:G:288:THR:CG2	1:G:292:LEU:HD13	2.36	0.55
1:J:277:ASP:CG	1:K:219:ASP:HA	2.00	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:300:TYR:CE2	1:K:225:LEU:HB3	2.38	0.55
1:K:37:ILE:HG13	1:K:312:TRP:HZ2	1.65	0.55
1:K:300:TYR:CE2	1:L:225:LEU:HB3	2.38	0.55
1:L:33:ILE:C	1:L:35:ARG:HB2	2.27	0.55
1:L:36:VAL:CG1	1:L:96:GLN:NE2	2.68	0.55
1:L:109:VAL:HG21	1:L:318:LEU:O	2.05	0.55
1:L:132:GLY:N	1:L:149:ILE:HD11	2.20	0.55
1:O:43:TYR:CZ	1:O:67:LEU:CB	2.87	0.55
1:P:97:VAL:O	1:P:97:VAL:HG12	2.05	0.55
1:P:165:GLU:HG3	1:P:305:ILE:CD1	2.36	0.55
1:A:79:THR:HG23	1:B:192:CYS:HB2	1.77	0.55
1:C:37:ILE:HD11	1:C:312:TRP:NE1	2.21	0.55
1:C:78:GLU:C	1:D:170:LYS:HD3	2.25	0.55
1:C:79:THR:OG1	1:D:192:CYS:HB3	2.07	0.55
1:E:37:ILE:CG1	1:E:312:TRP:CZ2	2.79	0.55
1:E:49:TYR:N	1:F:322:ALA:C	2.56	0.55
1:E:293:LYS:O	1:E:296:ILE:HG22	2.07	0.55
1:F:63:GLY:O	1:F:64:LYS:CB	2.52	0.55
1:F:165:GLU:HG3	1:F:305:ILE:CD1	2.36	0.55
1:F:218:THR:OG1	1:G:278:GLN:HB3	1.88	0.55
1:F:224:ASN:OD1	1:F:233:SER:CB	2.48	0.55
1:G:7:GLU:CG	1:G:326:TYR:CE1	2.89	0.55
1:H:35:ARG:NH2	1:H:316:GLU:HG2	2.22	0.55
1:H:143:LYS:HE3	1:H:145:TYR:HE2	1.70	0.55
1:H:194:VAL:HG22	1:H:199:ARG:NE	2.22	0.55
1:I:60:GLU:H	1:I:137:THR:HG22	1.72	0.55
1:I:259:GLU:OE2	1:I:263:LYS:HE3	2.06	0.55
1:J:33:ILE:HD12	1:J:312:TRP:NE1	2.15	0.55
1:J:37:ILE:CG1	1:J:312:TRP:CZ2	2.79	0.55
1:M:35:ARG:NH2	1:M:316:GLU:HG2	2.22	0.55
1:M:60:GLU:H	1:M:137:THR:HG22	1.72	0.55
1:N:37:ILE:HD11	1:N:312:TRP:NE1	2.21	0.55
1:N:60:GLU:H	1:N:137:THR:HG22	1.72	0.55
1:N:165:GLU:HG3	1:N:305:ILE:CD1	2.36	0.55
1:O:52:ILE:O	1:O:74:GLU:HG3	2.06	0.55
1:O:165:GLU:HG3	1:O:305:ILE:CD1	2.36	0.55
1:A:308:ASN:ND2	1:E:241:LYS:HB2	2.21	0.55
1:B:119:ASN:CG	1:B:120:ALA:H	2.09	0.55
1:C:52:ILE:O	1:C:74:GLU:HG3	2.06	0.55
1:E:155:LYS:HG3	1:E:156:ALA:H	1.72	0.55
1:F:155:LYS:HG3	1:F:156:ALA:H	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:288:THR:CG2	1:F:292:LEU:HD13	2.36	0.55
1:F:293:LYS:O	1:F:296:ILE:HG22	2.07	0.55
1:G:35:ARG:NH2	1:G:316:GLU:HG2	2.22	0.55
1:G:43:TYR:CZ	1:G:70:GLU:OE1	2.60	0.55
1:G:274:PHE:CE1	1:J:203:GLU:OE1	2.56	0.55
1:G:293:LYS:O	1:G:296:ILE:HG22	2.07	0.55
1:H:165:GLU:HG3	1:H:305:ILE:CD1	2.36	0.55
1:H:240:MET:SD	1:H:251:SER:HB2	2.46	0.55
1:H:293:LYS:O	1:H:296:ILE:HG22	2.07	0.55
1:I:130:ILE:HG13	1:I:152:ILE:HG21	1.87	0.55
1:I:307:THR:HA	1:N:231:ALA:HB2	1.87	0.55
1:J:259:GLU:OE2	1:J:263:LYS:HE3	2.06	0.55
1:K:7:GLU:HG3	1:K:326:TYR:CE1	2.42	0.55
1:K:22:ILE:HD12	1:K:27:LYS:HZ1	1.72	0.55
1:K:224:ASN:OD1	1:K:233:SER:CB	2.48	0.55
1:L:7:GLU:HG3	1:L:326:TYR:CE1	2.42	0.55
1:L:37:ILE:HG13	1:L:312:TRP:HZ2	1.65	0.55
1:M:43:TYR:CE2	1:M:67:LEU:CB	2.80	0.55
1:M:49:TYR:HE2	1:M:74:GLU:O	1.90	0.55
1:M:165:GLU:HG3	1:M:305:ILE:CD1	2.36	0.55
1:M:194:VAL:HG22	1:M:199:ARG:NE	2.22	0.55
1:M:240:MET:SD	1:M:251:SER:HB2	2.46	0.55
1:N:123:LYS:HZ3	1:N:127:ARG:HH12	1.55	0.55
1:N:194:VAL:HG22	1:N:199:ARG:NE	2.22	0.55
1:O:37:ILE:HD11	1:O:312:TRP:NE1	2.21	0.55
1:O:60:GLU:H	1:O:137:THR:HG22	1.72	0.55
1:P:37:ILE:HD11	1:P:312:TRP:NE1	2.21	0.55
1:A:49:TYR:CE1	1:B:320:LYS:HD2	2.36	0.55
1:A:191:ASN:O	1:A:192:CYS:SG	2.63	0.55
1:A:217:LEU:O	1:A:217:LEU:HD23	2.07	0.55
1:D:37:ILE:HD11	1:D:312:TRP:NE1	2.21	0.55
1:E:37:ILE:HG13	1:E:312:TRP:HZ2	1.65	0.55
1:E:50:ILE:HG12	1:F:320:LYS:HA	1.88	0.55
1:E:159:SER:O	1:E:163:PHE:CD1	2.60	0.55
1:F:37:ILE:HG13	1:F:312:TRP:HZ2	1.65	0.55
1:F:197:SER:CB	1:I:183:ASN:OD1	2.54	0.55
1:G:49:TYR:HE2	1:G:74:GLU:O	1.90	0.55
1:G:259:GLU:OE2	1:G:263:LYS:HE3	2.06	0.55
1:H:43:TYR:CZ	1:H:70:GLU:OE1	2.60	0.55
1:H:60:GLU:H	1:H:137:THR:HG22	1.72	0.55
1:H:217:LEU:HD23	1:H:217:LEU:O	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:7:GLU:HG3	1:I:326:TYR:CE1	2.42	0.55
1:I:10:MET:HB3	1:I:108:LEU:CD2	2.33	0.55
1:I:36:VAL:CG1	1:I:96:GLN:NE2	2.68	0.55
1:I:37:ILE:CG1	1:I:312:TRP:CZ2	2.79	0.55
1:I:58:LYS:HZ2	1:I:65:GLU:HG2	1.70	0.55
1:J:49:TYR:HE2	1:J:74:GLU:O	1.90	0.55
1:J:159:SER:O	1:J:163:PHE:CD1	2.60	0.55
1:K:52:ILE:O	1:K:74:GLU:HG3	2.06	0.55
1:K:259:GLU:OE2	1:K:263:LYS:HE3	2.06	0.55
1:K:293:LYS:O	1:K:296:ILE:HG22	2.07	0.55
1:L:159:SER:O	1:L:163:PHE:CD1	2.60	0.55
1:M:119:ASN:CG	1:M:120:ALA:H	2.09	0.55
1:M:217:LEU:HD23	1:M:217:LEU:O	2.07	0.55
1:M:288:THR:CG2	1:M:292:LEU:HD13	2.36	0.55
1:M:324:ALA:HB1	1:N:46:GLU:HA	1.68	0.55
1:N:35:ARG:NH2	1:N:316:GLU:HG2	2.22	0.55
1:N:119:ASN:CG	1:N:120:ALA:H	2.09	0.55
1:N:192:CYS:HB3	1:O:79:THR:OG1	2.07	0.55
1:N:288:THR:CG2	1:N:292:LEU:HD13	2.36	0.55
1:O:35:ARG:NH2	1:O:316:GLU:HG2	2.22	0.55
1:O:43:TYR:CZ	1:O:70:GLU:OE1	2.60	0.55
1:O:192:CYS:HB3	1:P:79:THR:OG1	2.07	0.55
1:O:194:VAL:HG22	1:O:199:ARG:NE	2.22	0.55
1:O:240:MET:SD	1:O:251:SER:HB2	2.46	0.55
1:P:52:ILE:O	1:P:74:GLU:HG3	2.06	0.55
1:P:60:GLU:H	1:P:137:THR:HG22	1.72	0.55
1:P:194:VAL:HG22	1:P:199:ARG:NE	2.22	0.55
1:A:7:GLU:CG	1:A:326:TYR:CE1	2.89	0.55
1:A:43:TYR:CZ	1:A:70:GLU:OE1	2.60	0.55
1:A:60:GLU:H	1:A:137:THR:HG22	1.72	0.55
1:A:119:ASN:CG	1:A:120:ALA:H	2.09	0.55
1:A:194:VAL:HG22	1:A:199:ARG:NE	2.22	0.55
1:A:240:MET:SD	1:A:251:SER:HB2	2.46	0.55
1:B:60:GLU:H	1:B:137:THR:HG22	1.72	0.55
1:B:131:LYS:HB2	1:B:152:ILE:HD13	1.89	0.55
1:C:240:MET:O	1:H:166:GLN:HG2	1.95	0.55
1:D:222:ASN:ND2	1:D:237:ASN:HD22	2.05	0.55
1:E:49:TYR:HE2	1:E:74:GLU:O	1.90	0.55
1:E:165:GLU:HG3	1:E:305:ILE:CD1	2.36	0.55
1:F:130:ILE:HG13	1:F:152:ILE:HG21	1.87	0.55
1:F:219:ASP:CB	1:F:224:ASN:ND2	2.65	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:49:TYR:CA	1:H:323:VAL:N	2.70	0.55
1:G:60:GLU:H	1:G:137:THR:HG22	1.72	0.55
1:G:159:SER:O	1:G:163:PHE:CD1	2.60	0.55
1:G:194:VAL:HG22	1:G:199:ARG:NE	2.22	0.55
1:I:34:LYS:CA	1:I:35:ARG:C	2.74	0.55
1:I:275:LYS:NZ	1:J:219:ASP:CB	2.70	0.55
1:J:60:GLU:H	1:J:137:THR:HG22	1.72	0.55
1:J:275:LYS:NZ	1:K:219:ASP:CB	2.70	0.55
1:K:36:VAL:N	1:K:312:TRP:HH2	2.01	0.55
1:M:161:VAL:HG11	1:M:285:ILE:HD13	1.89	0.55
1:N:217:LEU:O	1:N:217:LEU:HD23	2.07	0.55
1:O:68:ILE:CD1	1:O:92:THR:HB	2.10	0.55
1:P:36:VAL:CG1	1:P:96:GLN:NE2	2.68	0.55
1:P:43:TYR:CZ	1:P:70:GLU:OE1	2.60	0.55
1:P:84:LEU:HG	1:P:88:LEU:CD1	2.34	0.55
1:A:43:TYR:OH	1:A:67:LEU:HD22	2.07	0.55
1:A:68:ILE:CD1	1:A:92:THR:HB	2.10	0.55
1:B:43:TYR:CZ	1:B:70:GLU:OE1	2.60	0.55
1:B:49:TYR:HE2	1:B:74:GLU:O	1.90	0.55
1:B:217:LEU:HD23	1:B:217:LEU:O	2.07	0.55
1:B:246:ILE:CD1	1:G:320:LYS:C	2.73	0.55
1:C:47:ASP:O	1:D:323:VAL:CA	2.48	0.55
1:C:49:TYR:HE2	1:C:74:GLU:O	1.90	0.55
1:C:165:GLU:HG3	1:C:305:ILE:CD1	2.36	0.55
1:D:35:ARG:NH2	1:D:316:GLU:HG2	2.22	0.55
1:D:248:THR:HG22	1:H:52:ILE:CG2	2.27	0.55
1:E:60:GLU:H	1:E:137:THR:HG22	1.72	0.55
1:E:74:GLU:O	1:E:74:GLU:CD	2.46	0.55
1:G:7:GLU:HG3	1:G:326:TYR:CE1	2.42	0.55
1:G:165:GLU:HG3	1:G:305:ILE:CD1	2.36	0.55
1:H:7:GLU:HG3	1:H:326:TYR:CE1	2.42	0.55
1:I:43:TYR:CZ	1:I:70:GLU:OE1	2.60	0.55
1:J:22:ILE:HG22	1:J:35:ARG:CB	2.35	0.55
1:J:37:ILE:HD11	1:J:312:TRP:NE1	2.21	0.55
1:K:60:GLU:H	1:K:137:THR:HG22	1.72	0.55
1:K:74:GLU:O	1:K:74:GLU:CD	2.46	0.55
1:L:52:ILE:O	1:L:74:GLU:HG3	2.06	0.55
1:L:74:GLU:O	1:L:74:GLU:CD	2.46	0.55
1:M:43:TYR:CZ	1:M:67:LEU:CB	2.87	0.55
1:M:275:LYS:NZ	1:N:218:THR:OG1	2.40	0.55
1:N:43:TYR:CZ	1:N:70:GLU:OE1	2.60	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:131:LYS:HB2	1:N:152:ILE:HD13	1.89	0.55
1:N:161:VAL:HG11	1:N:285:ILE:HD13	1.89	0.55
1:N:275:LYS:NZ	1:O:218:THR:OG1	2.40	0.55
1:O:219:ASP:CB	1:O:224:ASN:ND2	2.65	0.55
1:O:288:THR:CG2	1:O:292:LEU:HD13	2.36	0.55
1:A:131:LYS:HB2	1:A:152:ILE:HD13	1.89	0.55
1:A:222:ASN:ND2	1:A:237:ASN:HD22	2.05	0.55
1:B:191:ASN:O	1:B:192:CYS:SG	2.62	0.55
1:B:194:VAL:HG22	1:B:199:ARG:NE	2.22	0.55
1:B:246:ILE:CD1	1:G:320:LYS:O	2.50	0.55
1:D:7:GLU:HG3	1:D:326:TYR:CE1	2.42	0.55
1:D:155:LYS:HG3	1:D:156:ALA:H	1.72	0.55
1:E:7:GLU:HG3	1:E:326:TYR:CE1	2.42	0.55
1:E:52:ILE:O	1:E:74:GLU:HG3	2.06	0.55
1:F:7:GLU:HG3	1:F:326:TYR:CE1	2.42	0.55
1:F:43:TYR:CZ	1:F:70:GLU:OE1	2.60	0.55
1:F:49:TYR:CA	1:G:323:VAL:N	2.70	0.55
1:G:37:ILE:HG13	1:G:312:TRP:HZ2	1.65	0.55
1:G:155:LYS:HG3	1:G:156:ALA:H	1.72	0.55
1:G:217:LEU:O	1:G:217:LEU:HD23	2.07	0.55
1:H:74:GLU:O	1:H:74:GLU:CD	2.46	0.55
1:H:259:GLU:OE2	1:H:263:LYS:HE3	2.06	0.55
1:I:52:ILE:O	1:I:74:GLU:HG3	2.06	0.55
1:I:166:GLN:C	1:N:241:LYS:HA	2.26	0.55
1:I:293:LYS:O	1:I:296:ILE:HG22	2.07	0.55
1:J:7:GLU:HG3	1:J:326:TYR:CE1	2.42	0.55
1:J:52:ILE:O	1:J:74:GLU:HG3	2.06	0.55
1:J:288:THR:CG2	1:J:292:LEU:HD13	2.36	0.55
1:K:275:LYS:NZ	1:L:219:ASP:CB	2.70	0.55
1:L:43:TYR:OH	1:L:67:LEU:HD22	2.07	0.55
1:L:217:LEU:O	1:L:217:LEU:HD23	2.07	0.55
1:L:293:LYS:O	1:L:296:ILE:HG22	2.07	0.55
1:M:131:LYS:HB2	1:M:152:ILE:HD13	1.89	0.55
1:M:153:THR:CG2	1:M:325:LYS:HE3	2.37	0.55
1:M:219:ASP:CB	1:M:224:ASN:ND2	2.64	0.55
1:N:320:LYS:O	1:O:47:ASP:O	2.21	0.55
1:O:153:THR:CG2	1:O:325:LYS:HE3	2.37	0.55
1:P:35:ARG:NH2	1:P:316:GLU:HG2	2.22	0.55
1:A:49:TYR:HE2	1:A:74:GLU:O	1.90	0.55
1:A:218:THR:OG1	1:B:275:LYS:NZ	2.40	0.55
1:A:293:LYS:O	1:A:296:ILE:HG22	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:36:VAL:CG1	1:B:96:GLN:NE2	2.68	0.55
1:B:43:TYR:OH	1:B:67:LEU:HD22	2.07	0.55
1:C:60:GLU:H	1:C:137:THR:HG22	1.72	0.55
1:C:242:LYS:CG	1:H:166:GLN:OE1	2.54	0.55
1:D:58:LYS:HZ2	1:D:65:GLU:CG	2.21	0.55
1:D:245:GLU:O	1:H:52:ILE:HG12	2.06	0.55
1:D:259:GLU:OE2	1:D:263:LYS:HE3	2.06	0.55
1:E:43:TYR:CZ	1:E:70:GLU:OE1	2.60	0.55
1:F:74:GLU:O	1:F:74:GLU:CD	2.46	0.55
1:F:259:GLU:OE2	1:F:263:LYS:HE3	2.06	0.55
1:G:74:GLU:O	1:G:74:GLU:CD	2.46	0.55
1:H:52:ILE:O	1:H:74:GLU:HG3	2.06	0.55
1:H:155:LYS:HG3	1:H:156:ALA:H	1.72	0.55
1:I:43:TYR:CE2	1:I:70:GLU:OE2	2.60	0.55
1:J:58:LYS:HZ2	1:J:65:GLU:HG2	1.70	0.55
1:J:73:VAL:HG23	1:N:240:MET:CE	1.91	0.55
1:J:74:GLU:O	1:J:74:GLU:CD	2.46	0.55
1:L:49:TYR:HE2	1:L:74:GLU:O	1.90	0.55
1:L:288:THR:CG2	1:L:292:LEU:HD13	2.36	0.55
1:M:43:TYR:CZ	1:M:70:GLU:OE1	2.60	0.55
1:N:43:TYR:OH	1:N:67:LEU:HD22	2.07	0.55
1:N:222:ASN:ND2	1:N:237:ASN:HD22	2.05	0.55
1:O:84:LEU:HG	1:O:88:LEU:CD1	2.34	0.55
1:P:161:VAL:HG11	1:P:285:ILE:HD13	1.89	0.55
1:P:288:THR:CG2	1:P:292:LEU:HD13	2.36	0.55
1:A:153:THR:CG2	1:A:325:LYS:HE3	2.37	0.54
1:A:165:GLU:HG3	1:A:305:ILE:CD1	2.36	0.54
1:B:7:GLU:HG3	1:B:326:TYR:CE1	2.42	0.54
1:B:43:TYR:CE2	1:B:70:GLU:OE2	2.61	0.54
1:B:218:THR:OG1	1:C:275:LYS:NZ	2.40	0.54
1:B:241:LYS:O	1:G:165:GLU:CD	2.44	0.54
1:B:293:LYS:O	1:B:296:ILE:HG22	2.07	0.54
1:C:155:LYS:HG3	1:C:156:ALA:H	1.72	0.54
1:C:194:VAL:HG22	1:C:199:ARG:NE	2.22	0.54
1:C:293:LYS:O	1:C:296:ILE:HG22	2.07	0.54
1:E:33:ILE:HD12	1:E:312:TRP:NE1	2.15	0.54
1:F:50:ILE:HG12	1:G:320:LYS:HA	1.89	0.54
1:F:197:SER:O	1:I:203:GLU:N	2.40	0.54
1:H:123:LYS:HZ3	1:H:127:ARG:NH1	2.04	0.54
1:H:222:ASN:ND2	1:H:237:ASN:HD22	2.05	0.54
1:I:153:THR:CG2	1:I:325:LYS:HE3	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:222:ASN:ND2	1:I:237:ASN:HD22	2.05	0.54
1:J:222:ASN:ND2	1:J:237:ASN:HD22	2.05	0.54
1:K:222:ASN:ND2	1:K:237:ASN:HD22	2.05	0.54
1:K:277:ASP:CG	1:L:219:ASP:HA	2.00	0.54
1:M:43:TYR:CE2	1:M:70:GLU:OE2	2.61	0.54
1:M:43:TYR:OH	1:M:67:LEU:HD22	2.07	0.54
1:M:259:GLU:OE2	1:M:263:LYS:HE3	2.06	0.54
1:M:293:LYS:O	1:M:296:ILE:HG22	2.07	0.54
1:N:74:GLU:O	1:N:74:GLU:CD	2.46	0.54
1:N:153:THR:CG2	1:N:325:LYS:HE3	2.38	0.54
1:O:43:TYR:OH	1:O:67:LEU:HD22	2.07	0.54
1:O:74:GLU:O	1:O:74:GLU:CD	2.46	0.54
1:O:161:VAL:HG11	1:O:285:ILE:HD13	1.89	0.54
1:P:33:ILE:C	1:P:35:ARG:HB2	2.27	0.54
1:P:153:THR:CG2	1:P:325:LYS:HE3	2.37	0.54
1:A:43:TYR:CE2	1:A:70:GLU:OE2	2.61	0.54
1:A:43:TYR:HE2	1:A:74:GLU:OE1	1.90	0.54
1:B:68:ILE:CD1	1:B:92:THR:HB	2.10	0.54
1:B:153:THR:CG2	1:B:325:LYS:HE3	2.37	0.54
1:C:43:TYR:HE2	1:C:74:GLU:OE1	1.91	0.54
1:C:48:GLY:O	1:D:320:LYS:HB2	2.07	0.54
1:E:43:TYR:OH	1:E:67:LEU:HD22	2.07	0.54
1:E:49:TYR:CA	1:F:323:VAL:N	2.70	0.54
1:F:49:TYR:HE2	1:F:74:GLU:O	1.90	0.54
1:F:60:GLU:H	1:F:137:THR:HG22	1.72	0.54
1:F:143:LYS:HE3	1:F:145:TYR:HE2	1.70	0.54
1:F:203:GLU:HA	1:I:197:SER:O	2.08	0.54
1:G:43:TYR:CE2	1:G:70:GLU:OE2	2.61	0.54
1:H:265:ALA:CA	1:K:271:LYS:NZ	2.61	0.54
1:I:35:ARG:NH2	1:I:316:GLU:HG2	2.22	0.54
1:I:161:VAL:HG11	1:I:285:ILE:HD13	1.89	0.54
1:I:194:VAL:HG22	1:I:199:ARG:NE	2.22	0.54
1:I:323:VAL:N	1:J:48:GLY:C	2.58	0.54
1:J:43:TYR:CE2	1:J:70:GLU:OE2	2.60	0.54
1:J:43:TYR:CZ	1:J:70:GLU:OE1	2.60	0.54
1:J:219:ASP:CB	1:J:224:ASN:ND2	2.65	0.54
1:J:254:ILE:O	1:J:257:VAL:HG12	2.07	0.54
1:K:153:THR:CG2	1:K:325:LYS:HE3	2.37	0.54
1:K:165:GLU:OE2	1:P:241:LYS:CB	2.55	0.54
1:K:320:LYS:O	1:P:246:ILE:CD1	2.49	0.54
1:L:35:ARG:NH2	1:L:316:GLU:HG2	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:43:TYR:HE2	1:L:74:GLU:OE1	1.91	0.54
1:L:60:GLU:H	1:L:137:THR:HG22	1.72	0.54
1:L:153:THR:CG2	1:L:325:LYS:HE3	2.37	0.54
1:L:222:ASN:ND2	1:L:237:ASN:HD22	2.05	0.54
1:L:254:ILE:O	1:L:257:VAL:HG12	2.07	0.54
1:M:155:LYS:HG3	1:M:156:ALA:H	1.72	0.54
1:O:217:LEU:O	1:O:217:LEU:HD23	2.07	0.54
1:P:36:VAL:N	1:P:312:TRP:HH2	2.01	0.54
1:P:43:TYR:HE2	1:P:74:GLU:OE1	1.91	0.54
1:P:49:TYR:HE2	1:P:74:GLU:O	1.90	0.54
1:A:7:GLU:HG3	1:A:326:TYR:CE1	2.42	0.54
1:B:58:LYS:HZ2	1:B:65:GLU:HG2	1.71	0.54
1:B:165:GLU:HG3	1:B:305:ILE:CD1	2.36	0.54
1:C:43:TYR:CE2	1:C:70:GLU:OE2	2.60	0.54
1:C:43:TYR:CZ	1:C:70:GLU:OE1	2.60	0.54
1:C:131:LYS:HB2	1:C:152:ILE:HD13	1.89	0.54
1:C:254:ILE:O	1:C:257:VAL:HG12	2.08	0.54
1:D:159:SER:O	1:D:163:PHE:CD1	2.60	0.54
1:E:143:LYS:HE3	1:E:145:TYR:HE2	1.70	0.54
1:F:217:LEU:O	1:F:217:LEU:HD23	2.07	0.54
1:G:36:VAL:N	1:G:312:TRP:HH2	2.01	0.54
1:G:48:GLY:C	1:H:323:VAL:N	2.58	0.54
1:I:73:VAL:HB	1:M:240:MET:CE	2.32	0.54
1:I:254:ILE:O	1:I:257:VAL:HG12	2.07	0.54
1:J:35:ARG:NH2	1:J:316:GLU:HG2	2.22	0.54
1:J:303:ASN:C	1:K:226:ILE:HD12	2.11	0.54
1:K:35:ARG:NH2	1:K:316:GLU:HG2	2.22	0.54
1:K:43:TYR:CZ	1:K:70:GLU:OE1	2.60	0.54
1:K:123:LYS:HZ3	1:K:127:ARG:NH1	2.04	0.54
1:K:155:LYS:HG3	1:K:156:ALA:H	1.72	0.54
1:K:217:LEU:HD23	1:K:217:LEU:O	2.07	0.54
1:K:254:ILE:O	1:K:257:VAL:HG12	2.07	0.54
1:L:155:LYS:HG3	1:L:156:ALA:H	1.72	0.54
1:M:7:GLU:HG3	1:M:326:TYR:CE1	2.42	0.54
1:M:43:TYR:HE2	1:M:74:GLU:OE1	1.91	0.54
1:M:222:ASN:ND2	1:M:237:ASN:HD22	2.05	0.54
1:N:7:GLU:HG3	1:N:326:TYR:CE1	2.42	0.54
1:N:49:TYR:HE2	1:N:74:GLU:O	1.90	0.54
1:N:159:SER:O	1:N:163:PHE:CD1	2.60	0.54
1:N:263:LYS:O	1:N:267:LYS:HG3	2.08	0.54
1:O:7:GLU:HG3	1:O:326:TYR:CE1	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:159:SER:O	1:O:163:PHE:CD1	2.60	0.54
1:O:259:GLU:OE2	1:O:263:LYS:HE3	2.06	0.54
1:P:74:GLU:O	1:P:74:GLU:CD	2.46	0.54
1:P:263:LYS:O	1:P:267:LYS:HG3	2.07	0.54
1:A:81:LYS:HB3	1:B:170:LYS:HZ2	1.71	0.54
1:A:259:GLU:OE2	1:A:263:LYS:HE3	2.06	0.54
1:B:35:ARG:NH2	1:B:316:GLU:HG2	2.22	0.54
1:B:48:GLY:O	1:C:320:LYS:HB2	2.07	0.54
1:C:35:ARG:NH2	1:C:316:GLU:HG2	2.22	0.54
1:C:290:GLN:HB3	1:G:230:GLN:HE22	1.71	0.54
1:D:45:LEU:HD22	1:D:58:LYS:HZ3	1.71	0.54
1:D:60:GLU:H	1:D:137:THR:HG22	1.72	0.54
1:D:194:VAL:HG22	1:D:199:ARG:NE	2.22	0.54
1:D:293:LYS:O	1:D:296:ILE:HG22	2.07	0.54
1:E:50:ILE:CG1	1:F:320:LYS:HG2	2.37	0.54
1:F:52:ILE:O	1:F:74:GLU:HG3	2.06	0.54
1:F:153:THR:CG2	1:F:325:LYS:HE3	2.38	0.54
1:F:194:VAL:HG22	1:F:199:ARG:NE	2.22	0.54
1:G:52:ILE:O	1:G:74:GLU:HG3	2.06	0.54
1:G:143:LYS:HE3	1:G:145:TYR:HE2	1.70	0.54
1:G:222:ASN:ND2	1:G:237:ASN:HD22	2.05	0.54
1:H:37:ILE:HD11	1:H:312:TRP:NE1	2.21	0.54
1:H:43:TYR:HE2	1:H:74:GLU:OE1	1.90	0.54
1:H:159:SER:O	1:H:163:PHE:CD1	2.60	0.54
1:H:254:ILE:O	1:H:257:VAL:HG12	2.07	0.54
1:I:74:GLU:O	1:I:74:GLU:CD	2.46	0.54
1:I:217:LEU:O	1:I:217:LEU:HD23	2.07	0.54
1:J:161:VAL:HG11	1:J:285:ILE:HD13	1.89	0.54
1:K:161:VAL:HG11	1:K:285:ILE:HD13	1.89	0.54
1:K:245:GLU:OE2	1:P:52:ILE:HD13	2.07	0.54
1:L:43:TYR:CZ	1:L:70:GLU:OE1	2.60	0.54
1:M:192:CYS:HB3	1:N:79:THR:OG1	2.07	0.54
1:N:22:ILE:HD12	1:N:27:LYS:HZ1	1.72	0.54
1:O:43:TYR:CE2	1:O:70:GLU:OE2	2.61	0.54
1:O:131:LYS:HB2	1:O:152:ILE:HD13	1.89	0.54
1:O:275:LYS:NZ	1:P:218:THR:OG1	2.40	0.54
1:O:301:PRO:HD3	1:P:227:THR:CG2	2.29	0.54
1:A:241:LYS:O	1:F:165:GLU:CD	2.46	0.54
1:B:43:TYR:HE2	1:B:74:GLU:OE1	1.90	0.54
1:B:213:VAL:HG13	1:B:253:VAL:HG12	1.90	0.54
1:C:153:THR:CG2	1:C:325:LYS:HE3	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:217:LEU:HD23	1:C:217:LEU:O	2.07	0.54
1:C:222:ASN:ND2	1:C:237:ASN:HD22	2.05	0.54
1:D:43:TYR:CZ	1:D:70:GLU:OE1	2.60	0.54
1:D:153:THR:CG2	1:D:325:LYS:HE3	2.37	0.54
1:D:254:ILE:O	1:D:257:VAL:HG12	2.08	0.54
1:E:43:TYR:CE2	1:E:70:GLU:OE2	2.60	0.54
1:E:218:THR:C	1:F:275:LYS:HB3	2.08	0.54
1:E:224:ASN:OD1	1:E:233:SER:CB	2.49	0.54
1:F:43:TYR:HE2	1:F:74:GLU:OE1	1.90	0.54
1:F:202:GLU:CA	1:I:272:ARG:CG	2.76	0.54
1:F:222:ASN:ND2	1:F:237:ASN:HD22	2.05	0.54
1:F:263:LYS:O	1:F:267:LYS:HG3	2.08	0.54
1:G:133:ASN:HD22	1:G:148:GLU:CA	2.11	0.54
1:H:49:TYR:HE2	1:H:74:GLU:O	1.90	0.54
1:H:153:THR:CG2	1:H:325:LYS:HE3	2.37	0.54
1:I:263:LYS:O	1:I:267:LYS:HG3	2.08	0.54
1:K:37:ILE:HD11	1:K:312:TRP:NE1	2.21	0.54
1:K:43:TYR:CE2	1:K:70:GLU:OE2	2.60	0.54
1:K:43:TYR:OH	1:K:67:LEU:HD22	2.07	0.54
1:K:49:TYR:HE2	1:K:74:GLU:O	1.90	0.54
1:K:320:LYS:HA	1:L:50:ILE:HG12	1.88	0.54
1:M:33:ILE:C	1:M:35:ARG:HB2	2.27	0.54
1:M:74:GLU:O	1:M:74:GLU:CD	2.46	0.54
1:N:259:GLU:OE2	1:N:263:LYS:HE3	2.06	0.54
1:O:5:THR:HG23	1:O:7:GLU:HG2	1.89	0.54
1:O:33:ILE:C	1:O:35:ARG:HB2	2.27	0.54
1:O:36:VAL:CG1	1:O:96:GLN:NE2	2.68	0.54
1:O:254:ILE:O	1:O:257:VAL:HG12	2.08	0.54
1:P:159:SER:O	1:P:163:PHE:CD1	2.60	0.54
1:P:254:ILE:O	1:P:257:VAL:HG12	2.08	0.54
1:A:35:ARG:NH2	1:A:316:GLU:HG2	2.22	0.54
1:A:36:VAL:N	1:A:312:TRP:HH2	2.01	0.54
1:A:74:GLU:O	1:A:74:GLU:CD	2.46	0.54
1:B:263:LYS:O	1:B:267:LYS:HG3	2.07	0.54
1:C:116:VAL:HG22	1:C:121:LYS:O	2.08	0.54
1:D:36:VAL:N	1:D:312:TRP:HH2	2.01	0.54
1:D:43:TYR:CE2	1:D:70:GLU:OE2	2.60	0.54
1:D:49:TYR:HE2	1:D:74:GLU:O	1.90	0.54
1:D:52:ILE:O	1:D:74:GLU:HG3	2.06	0.54
1:E:161:VAL:HG11	1:E:285:ILE:HD13	1.89	0.54
1:F:159:SER:O	1:F:163:PHE:CD1	2.60	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:254:ILE:O	1:G:257:VAL:HG12	2.07	0.54
1:H:43:TYR:CE2	1:H:70:GLU:OE2	2.60	0.54
1:H:263:LYS:O	1:H:267:LYS:HG3	2.08	0.54
1:I:43:TYR:HE2	1:I:74:GLU:OE1	1.90	0.54
1:I:52:ILE:CG1	1:M:245:GLU:C	2.75	0.54
1:I:159:SER:O	1:I:163:PHE:CD1	2.60	0.54
1:I:186:PHE:HE2	1:I:269:ILE:HD11	1.70	0.54
1:I:308:ASN:HD22	1:N:231:ALA:N	1.80	0.54
1:I:323:VAL:N	1:J:49:TYR:CA	2.70	0.54
1:J:78:GLU:OE1	1:N:245:GLU:OE2	2.24	0.54
1:J:194:VAL:HG22	1:J:199:ARG:NE	2.22	0.54
1:J:263:LYS:O	1:J:267:LYS:HG3	2.07	0.54
1:L:161:VAL:HG11	1:L:285:ILE:HD13	1.89	0.54
1:M:213:VAL:HG13	1:M:253:VAL:HG12	1.90	0.54
1:M:320:LYS:HD2	1:N:49:TYR:CE1	2.36	0.54
1:N:43:TYR:CE2	1:N:70:GLU:OE2	2.60	0.54
1:N:43:TYR:HE2	1:N:74:GLU:OE1	1.91	0.54
1:N:155:LYS:HG3	1:N:156:ALA:H	1.72	0.54
1:N:163:PHE:HA	1:O:76:SER:HG	1.70	0.54
1:O:43:TYR:HE2	1:O:74:GLU:OE1	1.91	0.54
1:P:7:GLU:HG3	1:P:326:TYR:CE1	2.42	0.54
1:P:43:TYR:OH	1:P:67:LEU:HD22	2.07	0.54
1:A:159:SER:O	1:A:163:PHE:CD1	2.60	0.54
1:B:254:ILE:O	1:B:257:VAL:HG12	2.07	0.54
1:C:7:GLU:HG3	1:C:326:TYR:CE1	2.42	0.54
1:C:43:TYR:OH	1:C:67:LEU:HD22	2.07	0.54
1:D:43:TYR:HE2	1:D:74:GLU:OE1	1.90	0.54
1:E:222:ASN:ND2	1:E:237:ASN:HD22	2.05	0.54
1:E:254:ILE:O	1:E:257:VAL:HG12	2.07	0.54
1:E:263:LYS:O	1:E:267:LYS:HG3	2.08	0.54
1:F:43:TYR:CE2	1:F:70:GLU:OE2	2.60	0.54
1:F:43:TYR:OH	1:F:67:LEU:HD22	2.07	0.54
1:F:202:GLU:HG2	1:I:272:ARG:N	2.23	0.54
1:F:267:LYS:O	1:I:264:ASP:OD1	2.25	0.54
1:G:36:VAL:CG1	1:G:96:GLN:NE2	2.68	0.54
1:J:155:LYS:HG3	1:J:156:ALA:H	1.72	0.54
1:J:323:VAL:N	1:K:48:GLY:C	2.58	0.54
1:K:323:VAL:N	1:L:48:GLY:C	2.58	0.54
1:L:191:ASN:O	1:L:192:CYS:SG	2.63	0.54
1:M:159:SER:O	1:M:163:PHE:CD1	2.60	0.54
1:O:293:LYS:O	1:O:296:ILE:HG22	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:43:TYR:CE2	1:P:70:GLU:OE2	2.61	0.54
1:P:222:ASN:ND2	1:P:237:ASN:HD22	2.05	0.54
1:P:293:LYS:O	1:P:296:ILE:HG22	2.07	0.54
1:A:33:ILE:C	1:A:35:ARG:HB2	2.27	0.54
1:A:263:LYS:O	1:A:267:LYS:HG3	2.07	0.54
1:B:33:ILE:C	1:B:35:ARG:HB2	2.27	0.54
1:B:116:VAL:HG22	1:B:121:LYS:O	2.08	0.54
1:B:155:LYS:HG3	1:B:156:ALA:H	1.72	0.54
1:B:159:SER:O	1:B:163:PHE:CD1	2.60	0.54
1:C:36:VAL:CG1	1:C:96:GLN:NE2	2.68	0.54
1:C:213:VAL:HG13	1:C:253:VAL:HG12	1.90	0.54
1:C:218:THR:OG1	1:D:275:LYS:NZ	2.40	0.54
1:E:43:TYR:CZ	1:E:67:LEU:CB	2.87	0.54
1:E:194:VAL:HG22	1:E:199:ARG:NE	2.22	0.54
1:F:161:VAL:HG11	1:F:285:ILE:HD13	1.89	0.54
1:F:254:ILE:O	1:F:257:VAL:HG12	2.08	0.54
1:H:22:ILE:HD12	1:H:27:LYS:HZ1	1.73	0.54
1:I:241:LYS:CB	1:M:308:ASN:HD21	2.21	0.54
1:J:153:THR:CG2	1:J:325:LYS:HE3	2.38	0.54
1:K:159:SER:O	1:K:163:PHE:CD1	2.60	0.54
1:K:323:VAL:N	1:L:49:TYR:CA	2.70	0.54
1:M:116:VAL:HG22	1:M:121:LYS:O	2.08	0.54
1:M:123:LYS:HZ1	1:M:127:ARG:HH12	1.56	0.54
1:N:5:THR:HG23	1:N:7:GLU:HG2	1.89	0.54
1:O:263:LYS:O	1:O:267:LYS:HG3	2.07	0.54
1:P:139:LYS:H	1:P:143:LYS:N	2.06	0.54
1:B:74:GLU:O	1:B:74:GLU:CD	2.46	0.54
1:C:245:GLU:C	1:G:49:TYR:CE2	2.79	0.54
1:C:247:ASP:O	1:G:52:ILE:CD1	2.52	0.54
1:C:263:LYS:O	1:C:267:LYS:HG3	2.08	0.54
1:C:308:ASN:ND2	1:G:241:LYS:CB	2.70	0.54
1:D:217:LEU:O	1:D:217:LEU:HD23	2.07	0.54
1:E:43:TYR:HE2	1:E:74:GLU:OE1	1.90	0.54
1:E:153:THR:CG2	1:E:325:LYS:HE3	2.37	0.54
1:F:49:TYR:CD1	1:G:320:LYS:CA	2.91	0.54
1:G:202:GLU:CA	1:J:272:ARG:CG	2.77	0.54
1:G:219:ASP:CB	1:H:275:LYS:NZ	2.70	0.54
1:G:274:PHE:CE2	1:J:203:GLU:OE1	2.57	0.54
1:H:219:ASP:CB	1:H:224:ASN:ND2	2.65	0.54
1:I:155:LYS:HG3	1:I:156:ALA:H	1.72	0.54
1:I:320:LYS:CA	1:J:49:TYR:CD1	2.91	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:43:TYR:HE2	1:J:74:GLU:OE1	1.90	0.54
1:J:165:GLU:CB	1:O:241:LYS:O	2.55	0.54
1:M:320:LYS:HB2	1:N:48:GLY:O	2.07	0.54
1:N:293:LYS:O	1:N:296:ILE:HG22	2.07	0.54
1:O:39:LYS:NZ	1:O:41:LYS:HD2	2.23	0.54
1:O:139:LYS:H	1:O:143:LYS:N	2.06	0.54
1:P:5:THR:HG23	1:P:7:GLU:HG2	1.89	0.54
1:P:39:LYS:NZ	1:P:41:LYS:HD2	2.23	0.54
1:P:259:GLU:OE2	1:P:263:LYS:HE3	2.06	0.54
1:A:161:VAL:HG11	1:A:285:ILE:HD13	1.89	0.54
1:B:245:GLU:CG	1:F:75:ASP:N	2.63	0.54
1:C:33:ILE:C	1:C:35:ARG:HB2	2.27	0.54
1:C:246:ILE:HD13	1:H:323:VAL:CB	2.37	0.54
1:C:259:GLU:OE2	1:C:263:LYS:HE3	2.06	0.54
1:D:33:ILE:C	1:D:35:ARG:HB2	2.27	0.54
1:D:213:VAL:HG13	1:D:253:VAL:HG12	1.90	0.54
1:E:259:GLU:OE2	1:E:263:LYS:HE3	2.06	0.54
1:G:47:ASP:CA	1:H:323:VAL:C	2.71	0.54
1:G:203:GLU:OE1	1:J:274:PHE:CE2	2.57	0.54
1:G:217:LEU:HD22	1:H:274:PHE:CD2	2.43	0.54
1:J:43:TYR:HH	1:J:56:SER:HG	1.56	0.54
1:J:116:VAL:HG22	1:J:121:LYS:O	2.08	0.54
1:J:217:LEU:HD23	1:J:217:LEU:O	2.07	0.54
1:J:308:ASN:CG	1:O:231:ALA:N	2.52	0.54
1:K:39:LYS:NZ	1:K:41:LYS:HD2	2.23	0.54
1:L:43:TYR:CE2	1:L:70:GLU:OE2	2.60	0.54
1:L:194:VAL:HG22	1:L:199:ARG:NE	2.22	0.54
1:M:59:ILE:HD11	1:M:95:THR:HG21	1.89	0.54
1:N:33:ILE:C	1:N:35:ARG:HB2	2.27	0.54
1:P:68:ILE:CD1	1:P:92:THR:HB	2.10	0.54
1:P:217:LEU:HD23	1:P:217:LEU:O	2.07	0.54
1:A:39:LYS:NZ	1:A:41:LYS:HD2	2.23	0.53
1:A:139:LYS:H	1:A:143:LYS:N	2.06	0.53
1:B:39:LYS:NZ	1:B:41:LYS:HD2	2.23	0.53
1:B:79:THR:OG1	1:C:192:CYS:HB3	2.07	0.53
1:B:219:ASP:CB	1:B:224:ASN:ND2	2.65	0.53
1:C:59:ILE:HD11	1:C:95:THR:HG21	1.89	0.53
1:C:159:SER:O	1:C:163:PHE:CD1	2.60	0.53
1:C:230:GLN:C	1:H:308:ASN:CG	2.67	0.53
1:D:59:ILE:HD11	1:D:95:THR:HG21	1.89	0.53
1:D:74:GLU:O	1:D:74:GLU:CD	2.46	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:217:LEU:HD23	1:E:217:LEU:O	2.07	0.53
1:F:219:ASP:CB	1:G:275:LYS:NZ	2.70	0.53
1:G:123:LYS:HZ3	1:G:127:ARG:NH1	2.04	0.53
1:G:131:LYS:HB2	1:G:152:ILE:HD13	1.89	0.53
1:G:161:VAL:HG11	1:G:285:ILE:HD13	1.89	0.53
1:G:218:THR:O	1:G:219:ASP:HB2	2.02	0.53
1:H:22:ILE:HG22	1:H:35:ARG:CB	2.35	0.53
1:I:49:TYR:HE2	1:I:74:GLU:O	1.90	0.53
1:J:39:LYS:NZ	1:J:41:LYS:HD2	2.23	0.53
1:J:43:TYR:OH	1:J:67:LEU:HD22	2.07	0.53
1:J:320:LYS:HA	1:K:50:ILE:HG12	1.89	0.53
1:K:22:ILE:HG22	1:K:35:ARG:CB	2.35	0.53
1:K:194:VAL:HG22	1:K:199:ARG:NE	2.22	0.53
1:M:5:THR:HG23	1:M:7:GLU:HG2	1.89	0.53
1:M:263:LYS:O	1:M:267:LYS:HG3	2.08	0.53
1:N:123:LYS:HZ3	1:N:127:ARG:NH1	2.06	0.53
1:N:213:VAL:HG13	1:N:253:VAL:HG12	1.90	0.53
1:N:254:ILE:O	1:N:257:VAL:HG12	2.07	0.53
1:N:320:LYS:HB2	1:O:48:GLY:O	2.07	0.53
1:O:222:ASN:ND2	1:O:237:ASN:HD22	2.05	0.53
1:A:5:THR:HG23	1:A:7:GLU:HG2	1.89	0.53
1:A:155:LYS:HG3	1:A:156:ALA:H	1.72	0.53
1:B:81:LYS:HB3	1:C:170:LYS:HZ1	1.71	0.53
1:B:95:THR:CG2	1:B:136:ILE:HD13	2.22	0.53
1:B:259:GLU:OE2	1:B:263:LYS:HE3	2.06	0.53
1:C:74:GLU:O	1:C:74:GLU:CD	2.46	0.53
1:C:161:VAL:HG11	1:C:285:ILE:HD13	1.89	0.53
1:D:39:LYS:NZ	1:D:41:LYS:HD2	2.23	0.53
1:D:43:TYR:OH	1:D:67:LEU:HD22	2.07	0.53
1:E:49:TYR:CD1	1:F:320:LYS:CA	2.91	0.53
1:F:39:LYS:NZ	1:F:41:LYS:HD2	2.23	0.53
1:F:48:GLY:C	1:G:323:VAL:N	2.58	0.53
1:F:109:VAL:CG1	1:F:322:ALA:HB2	2.39	0.53
1:F:203:GLU:N	1:I:272:ARG:HA	2.23	0.53
1:G:43:TYR:OH	1:G:67:LEU:HD22	2.07	0.53
1:H:131:LYS:HB2	1:H:152:ILE:HD13	1.89	0.53
1:H:213:VAL:HG13	1:H:253:VAL:HG12	1.90	0.53
1:J:219:ASP:CA	1:J:224:ASN:HB2	1.80	0.53
1:J:275:LYS:HZ2	1:K:219:ASP:CB	2.21	0.53
1:J:320:LYS:CA	1:K:49:TYR:CD1	2.91	0.53
1:K:5:THR:HG23	1:K:7:GLU:HG2	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:275:LYS:HB3	1:L:218:THR:C	2.08	0.53
1:K:320:LYS:CA	1:L:49:TYR:CD1	2.91	0.53
1:K:320:LYS:HG2	1:L:50:ILE:CG1	2.37	0.53
1:K:320:LYS:HG2	1:L:50:ILE:HD11	1.89	0.53
1:L:123:LYS:HZ3	1:L:127:ARG:NH1	2.05	0.53
1:L:263:LYS:O	1:L:267:LYS:HG3	2.07	0.53
1:M:39:LYS:NZ	1:M:41:LYS:HD2	2.23	0.53
1:N:39:LYS:NZ	1:N:41:LYS:HD2	2.23	0.53
1:N:59:ILE:HD11	1:N:95:THR:HG21	1.89	0.53
1:N:116:VAL:HG22	1:N:121:LYS:O	2.08	0.53
1:O:155:LYS:HG3	1:O:156:ALA:H	1.72	0.53
1:A:213:VAL:HG13	1:A:253:VAL:HG12	1.90	0.53
1:A:241:LYS:HA	1:F:165:GLU:CD	2.23	0.53
1:B:139:LYS:H	1:B:143:LYS:N	2.06	0.53
1:B:161:VAL:HG11	1:B:285:ILE:HD13	1.89	0.53
1:B:222:ASN:ND2	1:B:237:ASN:HD22	2.05	0.53
1:C:51:ASP:O	1:C:52:ILE:HD13	2.09	0.53
1:D:51:ASP:O	1:D:52:ILE:HD13	2.09	0.53
1:D:116:VAL:HG22	1:D:121:LYS:O	2.08	0.53
1:E:46:GLU:OE2	1:F:325:LYS:CD	2.55	0.53
1:E:219:ASP:CB	1:F:275:LYS:NZ	2.70	0.53
1:F:34:LYS:CA	1:F:35:ARG:O	2.57	0.53
1:F:131:LYS:HB2	1:F:152:ILE:HD13	1.89	0.53
1:G:43:TYR:CZ	1:G:67:LEU:CB	2.87	0.53
1:I:43:TYR:OH	1:I:67:LEU:HD22	2.07	0.53
1:I:116:VAL:HG22	1:I:121:LYS:O	2.08	0.53
1:I:308:ASN:HD22	1:N:231:ALA:CA	2.16	0.53
1:I:320:LYS:HA	1:J:50:ILE:HG12	1.89	0.53
1:J:95:THR:HG22	1:J:136:ILE:CD1	2.24	0.53
1:K:52:ILE:CG1	1:O:245:GLU:O	2.53	0.53
1:K:274:PHE:CD2	1:L:217:LEU:HD22	2.43	0.53
1:M:254:ILE:O	1:M:257:VAL:HG12	2.08	0.53
1:N:139:LYS:H	1:N:143:LYS:N	2.06	0.53
1:N:323:VAL:CA	1:O:47:ASP:O	2.48	0.53
1:O:34:LYS:CA	1:O:35:ARG:O	2.57	0.53
1:O:44:ASN:CB	1:O:64:LYS:HZ1	2.17	0.53
1:P:34:LYS:CA	1:P:35:ARG:O	2.57	0.53
1:P:131:LYS:HB2	1:P:152:ILE:HD13	1.89	0.53
1:A:48:GLY:O	1:B:320:LYS:HB2	2.07	0.53
1:A:116:VAL:HG22	1:A:121:LYS:O	2.08	0.53
1:B:59:ILE:HD11	1:B:95:THR:HG21	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:81:LYS:HB3	1:D:170:LYS:HZ2	1.71	0.53
1:D:263:LYS:O	1:D:267:LYS:HG3	2.08	0.53
1:E:5:THR:HG23	1:E:7:GLU:HG2	1.89	0.53
1:E:39:LYS:NZ	1:E:41:LYS:HD2	2.23	0.53
1:E:217:LEU:HD22	1:F:274:PHE:CD2	2.43	0.53
1:F:5:THR:HG23	1:F:7:GLU:HG2	1.89	0.53
1:F:43:TYR:CZ	1:F:67:LEU:CB	2.87	0.53
1:G:213:VAL:HG13	1:G:253:VAL:HG12	1.90	0.53
1:G:218:THR:C	1:H:275:LYS:HB3	2.08	0.53
1:G:263:LYS:O	1:G:267:LYS:HG3	2.07	0.53
1:H:34:LYS:CA	1:H:35:ARG:O	2.57	0.53
1:H:197:SER:C	1:K:203:GLU:HB2	2.28	0.53
1:I:39:LYS:NZ	1:I:41:LYS:HD2	2.23	0.53
1:I:109:VAL:CG1	1:I:322:ALA:HB2	2.39	0.53
1:J:5:THR:HG23	1:J:7:GLU:HG2	1.89	0.53
1:J:109:VAL:CG1	1:J:322:ALA:HB2	2.39	0.53
1:K:43:TYR:HE2	1:K:74:GLU:OE1	1.90	0.53
1:K:109:VAL:CG1	1:K:322:ALA:HB2	2.39	0.53
1:K:263:LYS:O	1:K:267:LYS:HG3	2.08	0.53
1:L:5:THR:HG23	1:L:7:GLU:HG2	1.89	0.53
1:M:36:VAL:N	1:M:312:TRP:HH2	2.01	0.53
1:N:34:LYS:CA	1:N:35:ARG:O	2.57	0.53
1:N:167:GLU:O	1:O:72:GLY:O	2.27	0.53
1:A:43:TYR:CZ	1:A:67:LEU:CB	2.86	0.53
1:A:72:GLY:O	1:B:167:GLU:O	2.26	0.53
1:A:254:ILE:O	1:A:257:VAL:HG12	2.08	0.53
1:B:5:THR:HG23	1:B:7:GLU:HG2	1.89	0.53
1:B:47:ASP:O	1:C:320:LYS:O	2.21	0.53
1:C:139:LYS:H	1:C:143:LYS:N	2.06	0.53
1:C:246:ILE:HA	1:G:52:ILE:HG12	1.89	0.53
1:D:5:THR:HG23	1:D:7:GLU:HG2	1.89	0.53
1:E:50:ILE:HD11	1:F:320:LYS:HG2	1.89	0.53
1:E:131:LYS:HB2	1:E:152:ILE:HD13	1.89	0.53
1:F:46:GLU:OE2	1:G:325:LYS:CD	2.55	0.53
1:G:10:MET:HB3	1:G:108:LEU:CD2	2.33	0.53
1:H:161:VAL:HG11	1:H:285:ILE:HD13	1.89	0.53
1:I:274:PHE:CD2	1:J:217:LEU:HD22	2.43	0.53
1:J:323:VAL:N	1:K:49:TYR:CA	2.70	0.53
1:K:116:VAL:HG22	1:K:121:LYS:O	2.08	0.53
1:K:325:LYS:CD	1:L:46:GLU:OE2	2.55	0.53
1:M:34:LYS:CA	1:M:35:ARG:O	2.57	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:36:VAL:CG1	1:N:96:GLN:NE2	2.68	0.53
1:O:43:TYR:CE2	1:O:67:LEU:CD1	2.91	0.53
1:O:116:VAL:HG22	1:O:121:LYS:O	2.08	0.53
1:P:43:TYR:CE2	1:P:67:LEU:CD1	2.91	0.53
1:P:133:ASN:ND2	1:P:148:GLU:CB	2.72	0.53
1:A:47:ASP:OD1	1:B:9:VAL:HG21	2.09	0.53
1:B:229:GLU:HB2	1:G:308:ASN:CB	2.35	0.53
1:C:39:LYS:NZ	1:C:41:LYS:HD2	2.23	0.53
1:C:72:GLY:O	1:D:167:GLU:O	2.27	0.53
1:C:247:ASP:CA	1:G:52:ILE:CD1	2.78	0.53
1:F:123:LYS:HZ3	1:F:127:ARG:NH1	2.06	0.53
1:G:39:LYS:NZ	1:G:41:LYS:HD2	2.23	0.53
1:G:153:THR:CG2	1:G:325:LYS:HE3	2.37	0.53
1:H:10:MET:HB3	1:H:108:LEU:CD2	2.33	0.53
1:H:43:TYR:OH	1:H:67:LEU:HD22	2.07	0.53
1:H:202:GLU:HA	1:K:272:ARG:CD	2.08	0.53
1:I:5:THR:HG23	1:I:7:GLU:HG2	1.89	0.53
1:I:51:ASP:O	1:I:52:ILE:HD13	2.09	0.53
1:I:320:LYS:HG2	1:J:50:ILE:HD11	1.89	0.53
1:J:51:ASP:O	1:J:52:ILE:HD13	2.08	0.53
1:J:320:LYS:HG2	1:K:50:ILE:HD11	1.90	0.53
1:L:208:ASP:O	1:L:211:ILE:HG12	2.09	0.53
1:M:167:GLU:O	1:N:72:GLY:O	2.27	0.53
1:M:301:PRO:CD	1:N:227:THR:HG23	2.38	0.53
1:N:133:ASN:ND2	1:N:148:GLU:CB	2.72	0.53
1:O:9:VAL:HG21	1:P:47:ASP:OD1	2.09	0.53
1:O:320:LYS:HD2	1:P:49:TYR:CE1	2.36	0.53
1:O:320:LYS:HB2	1:P:48:GLY:O	2.07	0.53
1:A:308:ASN:ND2	1:E:241:LYS:CB	2.71	0.53
1:C:47:ASP:OD1	1:D:9:VAL:HG21	2.09	0.53
1:C:133:ASN:ND2	1:C:148:GLU:CB	2.72	0.53
1:D:131:LYS:HB2	1:D:152:ILE:HD13	1.89	0.53
1:D:161:VAL:HG11	1:D:285:ILE:HD13	1.89	0.53
1:E:116:VAL:HG22	1:E:121:LYS:O	2.08	0.53
1:E:213:VAL:HG13	1:E:253:VAL:HG12	1.90	0.53
1:F:10:MET:HB3	1:F:108:LEU:CD2	2.33	0.53
1:F:203:GLU:HB2	1:I:197:SER:C	2.29	0.53
1:F:271:LYS:CE	1:I:268:LEU:HD22	2.38	0.53
1:G:46:GLU:OE2	1:H:325:LYS:CD	2.55	0.53
1:G:208:ASP:O	1:G:211:ILE:HG12	2.09	0.53
1:H:109:VAL:CG1	1:H:322:ALA:HB2	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:33:ILE:HD12	1:I:312:TRP:NE1	2.15	0.53
1:I:59:ILE:HD11	1:I:95:THR:HG21	1.89	0.53
1:I:320:LYS:HG2	1:J:50:ILE:CG1	2.37	0.53
1:J:208:ASP:O	1:J:211:ILE:HG12	2.09	0.53
1:J:320:LYS:HG2	1:K:50:ILE:CG1	2.37	0.53
1:J:325:LYS:CD	1:K:46:GLU:OE2	2.55	0.53
1:K:36:VAL:CG1	1:K:96:GLN:NE2	2.68	0.53
1:K:322:ALA:C	1:L:49:TYR:N	2.56	0.53
1:L:34:LYS:CA	1:L:35:ARG:O	2.57	0.53
1:L:177:ILE:HD11	1:L:284:PHE:CZ	2.44	0.53
1:M:9:VAL:HG21	1:N:47:ASP:OD1	2.09	0.53
1:M:139:LYS:H	1:M:143:LYS:N	2.06	0.53
1:O:301:PRO:CD	1:P:227:THR:HG23	2.38	0.53
1:P:109:VAL:CG1	1:P:322:ALA:HB2	2.39	0.53
1:A:51:ASP:O	1:A:52:ILE:HD13	2.09	0.53
1:A:231:ALA:CA	1:F:308:ASN:ND2	2.72	0.53
1:B:51:ASP:O	1:B:52:ILE:HD13	2.09	0.53
1:B:133:ASN:ND2	1:B:148:GLU:CB	2.72	0.53
1:D:36:VAL:CG1	1:D:96:GLN:NE2	2.68	0.53
1:E:10:MET:HB3	1:E:108:LEU:CD2	2.33	0.53
1:F:271:LYS:NZ	1:I:268:LEU:HD22	2.23	0.53
1:G:5:THR:HG23	1:G:7:GLU:HG2	1.89	0.53
1:G:49:TYR:CD1	1:H:320:LYS:CA	2.91	0.53
1:G:51:ASP:O	1:G:52:ILE:HD13	2.08	0.53
1:H:5:THR:HG23	1:H:7:GLU:HG2	1.89	0.53
1:H:9:VAL:HG13	1:H:322:ALA:CB	2.39	0.53
1:H:43:TYR:CZ	1:H:67:LEU:CB	2.86	0.53
1:I:213:VAL:HG13	1:I:253:VAL:HG12	1.90	0.53
1:J:34:LYS:CA	1:J:35:ARG:O	2.57	0.53
1:K:9:VAL:HG13	1:K:322:ALA:CB	2.39	0.53
1:K:51:ASP:O	1:K:52:ILE:HD13	2.09	0.53
1:O:123:LYS:HZ1	1:O:127:ARG:HH12	1.57	0.53
1:O:167:GLU:O	1:P:72:GLY:O	2.26	0.53
1:O:322:ALA:C	1:P:47:ASP:C	2.62	0.53
1:P:191:ASN:O	1:P:192:CYS:SG	2.63	0.53
1:P:213:VAL:HG13	1:P:253:VAL:HG12	1.90	0.53
1:A:5:THR:CG2	1:A:7:GLU:HG2	2.39	0.53
1:A:59:ILE:HD11	1:A:95:THR:HG21	1.89	0.53
1:B:50:ILE:HG13	1:B:50:ILE:O	2.09	0.53
1:B:105:LYS:NZ	1:B:148:GLU:CB	2.72	0.53
1:C:52:ILE:HD13	1:H:245:GLU:OE2	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:241:LYS:HZ1	1:H:305:ILE:HG22	1.72	0.53
1:D:109:VAL:CG1	1:D:322:ALA:HB2	2.39	0.53
1:D:139:LYS:H	1:D:143:LYS:N	2.06	0.53
1:F:50:ILE:CG1	1:G:320:LYS:HG2	2.37	0.53
1:F:50:ILE:HD11	1:G:320:LYS:HG2	1.89	0.53
1:F:213:VAL:HG13	1:F:253:VAL:HG12	1.90	0.53
1:F:217:LEU:HD22	1:G:274:PHE:CD2	2.44	0.53
1:H:139:LYS:H	1:H:143:LYS:N	2.06	0.53
1:I:5:THR:CG2	1:I:7:GLU:HG2	2.39	0.53
1:I:325:LYS:CD	1:J:46:GLU:OE2	2.55	0.53
1:J:9:VAL:HG13	1:J:322:ALA:CB	2.39	0.53
1:L:74:GLU:O	1:P:245:GLU:HB3	2.07	0.53
1:L:131:LYS:HB2	1:L:152:ILE:HD13	1.89	0.53
1:L:133:ASN:ND2	1:L:148:GLU:CB	2.72	0.53
1:O:59:ILE:HD11	1:O:95:THR:HG21	1.89	0.53
1:O:213:VAL:HG13	1:O:253:VAL:HG12	1.90	0.53
1:P:116:VAL:HG22	1:P:121:LYS:O	2.08	0.53
1:P:208:ASP:O	1:P:211:ILE:HG12	2.09	0.53
1:A:45:LEU:CD2	1:A:58:LYS:HZ3	2.21	0.53
1:A:133:ASN:ND2	1:A:148:GLU:CB	2.72	0.53
1:C:43:TYR:CZ	1:C:67:LEU:CB	2.87	0.53
1:C:105:LYS:NZ	1:C:148:GLU:CB	2.72	0.53
1:C:231:ALA:HB2	1:H:307:THR:HA	1.90	0.53
1:D:5:THR:CG2	1:D:7:GLU:HG2	2.39	0.53
1:D:219:ASP:CB	1:D:224:ASN:ND2	2.64	0.53
1:E:47:ASP:CA	1:F:323:VAL:C	2.71	0.53
1:E:49:TYR:CE2	1:E:75:ASP:HA	2.20	0.53
1:F:116:VAL:HG22	1:F:121:LYS:O	2.08	0.53
1:G:43:TYR:HE2	1:G:74:GLU:OE1	1.91	0.53
1:G:50:ILE:HD11	1:H:320:LYS:HG2	1.89	0.53
1:G:109:VAL:CG1	1:G:322:ALA:HB2	2.39	0.53
1:G:133:ASN:ND2	1:G:148:GLU:CB	2.72	0.53
1:H:197:SER:O	1:K:203:GLU:HA	2.09	0.53
1:H:208:ASP:O	1:H:211:ILE:HG12	2.09	0.53
1:I:34:LYS:CA	1:I:35:ARG:O	2.57	0.53
1:I:105:LYS:NZ	1:I:148:GLU:CB	2.72	0.53
1:I:208:ASP:O	1:I:211:ILE:HG12	2.09	0.53
1:J:5:THR:CG2	1:J:7:GLU:HG2	2.39	0.53
1:J:195:ASN:O	1:J:199:ARG:HG3	2.09	0.53
1:K:131:LYS:HB2	1:K:152:ILE:HD13	1.89	0.53
1:K:177:ILE:HD11	1:K:284:PHE:CZ	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:27:LYS:HZ1	1:L:35:ARG:HE	1.57	0.53
1:L:116:VAL:HG22	1:L:121:LYS:O	2.08	0.53
1:M:5:THR:CG2	1:M:7:GLU:HG2	2.39	0.53
1:M:105:LYS:NZ	1:M:148:GLU:CB	2.72	0.53
1:N:219:ASP:CB	1:N:224:ASN:ND2	2.65	0.53
1:O:109:VAL:CG1	1:O:322:ALA:HB2	2.39	0.53
1:O:133:ASN:ND2	1:O:148:GLU:CB	2.72	0.53
1:P:133:ASN:HD22	1:P:148:GLU:CA	2.11	0.53
1:P:155:LYS:HG3	1:P:156:ALA:H	1.72	0.53
1:A:50:ILE:HG13	1:A:50:ILE:O	2.09	0.52
1:A:105:LYS:NZ	1:A:148:GLU:CB	2.72	0.52
1:B:45:LEU:CD2	1:B:58:LYS:HZ3	2.21	0.52
1:C:50:ILE:HG13	1:C:50:ILE:O	2.10	0.52
1:D:133:ASN:ND2	1:D:148:GLU:CB	2.72	0.52
1:E:49:TYR:CB	1:F:324:ALA:HB3	2.38	0.52
1:E:105:LYS:NZ	1:E:148:GLU:CB	2.72	0.52
1:E:109:VAL:CG1	1:E:322:ALA:HB2	2.39	0.52
1:E:133:ASN:ND2	1:E:148:GLU:CB	2.72	0.52
1:F:195:ASN:O	1:F:199:ARG:HG3	2.09	0.52
1:G:76:SER:HB3	1:H:163:PHE:CE2	2.45	0.52
1:H:177:ILE:HD11	1:H:284:PHE:CZ	2.44	0.52
1:I:45:LEU:CD2	1:I:58:LYS:HZ3	2.22	0.52
1:J:133:ASN:ND2	1:J:148:GLU:CB	2.72	0.52
1:J:274:PHE:CD2	1:K:217:LEU:HD22	2.43	0.52
1:K:105:LYS:NZ	1:K:148:GLU:CB	2.72	0.52
1:L:9:VAL:HG13	1:L:322:ALA:CB	2.39	0.52
1:L:39:LYS:NZ	1:L:41:LYS:HD2	2.23	0.52
1:L:51:ASP:O	1:L:52:ILE:HD13	2.09	0.52
1:N:5:THR:CG2	1:N:7:GLU:HG2	2.39	0.52
1:N:105:LYS:NZ	1:N:148:GLU:CB	2.72	0.52
1:O:191:ASN:O	1:O:192:CYS:SG	2.62	0.52
1:C:5:THR:HG23	1:C:7:GLU:HG2	1.89	0.52
1:C:5:THR:CG2	1:C:7:GLU:HG2	2.39	0.52
1:C:58:LYS:HZ2	1:C:65:GLU:CG	2.23	0.52
1:C:109:VAL:CG1	1:C:322:ALA:HB2	2.39	0.52
1:D:34:LYS:CA	1:D:35:ARG:O	2.57	0.52
1:D:44:ASN:CB	1:D:64:LYS:HZ1	2.18	0.52
1:D:50:ILE:O	1:D:50:ILE:HG13	2.09	0.52
1:F:51:ASP:O	1:F:52:ILE:HD13	2.09	0.52
1:F:71:GLN:CG	1:G:168:ASN:CB	2.87	0.52
1:G:9:VAL:HG13	1:G:322:ALA:CB	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:34:LYS:N	1:G:35:ARG:CB	2.72	0.52
1:G:34:LYS:CA	1:G:35:ARG:O	2.57	0.52
1:G:58:LYS:HZ2	1:G:65:GLU:HG2	1.74	0.52
1:I:133:ASN:ND2	1:I:148:GLU:CB	2.72	0.52
1:J:21:LEU:HD23	1:J:21:LEU:C	2.30	0.52
1:J:59:ILE:HD11	1:J:95:THR:HG21	1.89	0.52
1:J:213:VAL:HG13	1:J:253:VAL:HG12	1.90	0.52
1:K:5:THR:CG2	1:K:7:GLU:HG2	2.39	0.52
1:K:213:VAL:HG13	1:K:253:VAL:HG12	1.90	0.52
1:K:320:LYS:C	1:P:246:ILE:CD1	2.76	0.52
1:M:50:ILE:O	1:M:50:ILE:HG13	2.09	0.52
1:M:133:ASN:ND2	1:M:148:GLU:CB	2.72	0.52
1:N:43:TYR:CE2	1:N:67:LEU:CD1	2.91	0.52
1:N:51:ASP:O	1:N:52:ILE:HD13	2.09	0.52
1:P:123:LYS:HZ1	1:P:127:ARG:HH12	1.57	0.52
1:A:21:LEU:HD23	1:A:21:LEU:C	2.30	0.52
1:B:5:THR:CG2	1:B:7:GLU:HG2	2.39	0.52
1:B:21:LEU:HD23	1:B:21:LEU:C	2.30	0.52
1:B:48:GLY:O	1:C:317:GLY:O	2.28	0.52
1:B:177:ILE:HD11	1:B:284:PHE:CZ	2.44	0.52
1:C:34:LYS:CA	1:C:35:ARG:O	2.57	0.52
1:C:308:ASN:ND2	1:G:241:LYS:HB3	2.25	0.52
1:D:105:LYS:NZ	1:D:148:GLU:CB	2.72	0.52
1:D:177:ILE:HD11	1:D:284:PHE:CZ	2.44	0.52
1:D:208:ASP:O	1:D:211:ILE:HG12	2.09	0.52
1:E:9:VAL:HG13	1:E:322:ALA:CB	2.39	0.52
1:F:76:SER:HB3	1:G:163:PHE:CE2	2.45	0.52
1:F:208:ASP:O	1:F:211:ILE:HG12	2.09	0.52
1:F:265:ALA:HA	1:I:271:LYS:HZ3	1.74	0.52
1:G:177:ILE:HD11	1:G:284:PHE:CZ	2.44	0.52
1:G:197:SER:CB	1:J:183:ASN:ND2	2.64	0.52
1:H:50:ILE:O	1:H:50:ILE:HG13	2.09	0.52
1:H:105:LYS:NZ	1:H:148:GLU:CB	2.72	0.52
1:H:116:VAL:HG22	1:H:121:LYS:O	2.08	0.52
1:H:133:ASN:ND2	1:H:148:GLU:CB	2.72	0.52
1:H:272:ARG:HA	1:K:203:GLU:N	2.24	0.52
1:I:9:VAL:HG13	1:I:322:ALA:CB	2.39	0.52
1:I:123:LYS:HZ3	1:I:127:ARG:NH1	2.07	0.52
1:I:131:LYS:HB2	1:I:152:ILE:HD13	1.89	0.52
1:J:131:LYS:HB2	1:J:152:ILE:HD13	1.89	0.52
1:J:163:PHE:CE2	1:K:76:SER:HB3	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:50:ILE:CD1	1:O:246:ILE:C	2.78	0.52
1:K:186:PHE:HE2	1:K:269:ILE:HD11	1.70	0.52
1:L:21:LEU:HD23	1:L:21:LEU:C	2.30	0.52
1:M:51:ASP:O	1:M:52:ILE:HD13	2.09	0.52
1:N:9:VAL:HG21	1:O:47:ASP:OD1	2.09	0.52
1:N:50:ILE:HG13	1:N:50:ILE:O	2.09	0.52
1:N:109:VAL:CG1	1:N:322:ALA:HB2	2.39	0.52
1:B:227:THR:HG23	1:C:301:PRO:CD	2.38	0.52
1:C:48:GLY:O	1:D:317:GLY:O	2.28	0.52
1:E:208:ASP:O	1:E:211:ILE:HG12	2.09	0.52
1:F:105:LYS:NZ	1:F:148:GLU:CB	2.72	0.52
1:H:202:GLU:HA	1:K:272:ARG:HB2	1.91	0.52
1:I:163:PHE:CE2	1:J:76:SER:HB3	2.45	0.52
1:J:45:LEU:CD2	1:J:58:LYS:HZ3	2.22	0.52
1:J:133:ASN:HD22	1:J:148:GLU:CA	2.11	0.52
1:K:34:LYS:CA	1:K:35:ARG:O	2.57	0.52
1:L:5:THR:CG2	1:L:7:GLU:HG2	2.39	0.52
1:L:105:LYS:NZ	1:L:148:GLU:CB	2.72	0.52
1:A:34:LYS:CA	1:A:35:ARG:O	2.57	0.52
1:A:58:LYS:HZ2	1:A:65:GLU:HG2	1.72	0.52
1:A:109:VAL:CG1	1:A:322:ALA:HB2	2.39	0.52
1:A:290:GLN:CB	1:E:230:GLN:HE22	2.20	0.52
1:B:34:LYS:CA	1:B:35:ARG:O	2.57	0.52
1:B:72:GLY:O	1:C:167:GLU:O	2.27	0.52
1:C:22:ILE:HG22	1:C:35:ARG:CB	2.35	0.52
1:C:242:LYS:O	1:H:166:GLN:CB	2.42	0.52
1:D:195:ASN:O	1:D:199:ARG:HG3	2.09	0.52
1:E:114:LEU:CG	1:E:156:ALA:HB1	2.38	0.52
1:F:21:LEU:HD23	1:F:21:LEU:C	2.30	0.52
1:F:271:LYS:NZ	1:I:265:ALA:CA	2.57	0.52
1:G:50:ILE:CG1	1:H:320:LYS:HG2	2.37	0.52
1:G:105:LYS:NZ	1:G:148:GLU:CB	2.72	0.52
1:G:127:ARG:HA	1:G:130:ILE:HG12	1.92	0.52
1:G:195:ASN:O	1:G:199:ARG:HG3	2.09	0.52
1:H:51:ASP:O	1:H:52:ILE:HD13	2.09	0.52
1:J:164:LEU:O	1:O:242:LYS:HA	2.09	0.52
1:J:320:LYS:C	1:O:246:ILE:HD11	2.30	0.52
1:J:324:ALA:HB3	1:K:49:TYR:CB	2.38	0.52
1:L:109:VAL:CG1	1:L:322:ALA:HB2	2.39	0.52
1:L:127:ARG:HA	1:L:130:ILE:HG12	1.92	0.52
1:L:213:VAL:HG13	1:L:253:VAL:HG12	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:21:LEU:HD23	1:M:21:LEU:C	2.30	0.52
1:M:22:ILE:HD12	1:M:27:LYS:NZ	2.24	0.52
1:M:195:ASN:O	1:M:199:ARG:HG3	2.09	0.52
1:O:5:THR:CG2	1:O:7:GLU:HG2	2.39	0.52
1:O:208:ASP:O	1:O:211:ILE:HG12	2.09	0.52
1:C:246:ILE:HG13	1:H:320:LYS:CB	2.38	0.52
1:D:21:LEU:HD23	1:D:21:LEU:C	2.30	0.52
1:F:45:LEU:CD2	1:F:58:LYS:HZ3	2.22	0.52
1:F:204:HIS:CE1	1:I:271:LYS:C	2.83	0.52
1:G:49:TYR:CB	1:H:324:ALA:HB3	2.38	0.52
1:G:139:LYS:H	1:G:143:LYS:N	2.06	0.52
1:H:39:LYS:NZ	1:H:41:LYS:HD2	2.23	0.52
1:H:130:ILE:HD12	1:H:152:ILE:HB	1.92	0.52
1:I:22:ILE:HD12	1:I:27:LYS:NZ	2.24	0.52
1:I:168:ASN:CB	1:J:71:GLN:CG	2.87	0.52
1:J:22:ILE:HD12	1:J:27:LYS:NZ	2.24	0.52
1:J:105:LYS:NZ	1:J:148:GLU:CB	2.72	0.52
1:J:177:ILE:HD11	1:J:284:PHE:CZ	2.44	0.52
1:J:321:VAL:CA	1:K:49:TYR:HB2	2.28	0.52
1:K:21:LEU:HD23	1:K:21:LEU:C	2.30	0.52
1:O:22:ILE:HD12	1:O:27:LYS:HZ1	1.74	0.52
1:O:51:ASP:O	1:O:52:ILE:HD13	2.09	0.52
1:O:273:GLY:O	1:O:274:PHE:CG	2.63	0.52
1:A:241:LYS:CE	1:F:305:ILE:CG2	2.88	0.52
1:B:208:ASP:O	1:B:211:ILE:HG12	2.09	0.52
1:D:9:VAL:HG13	1:D:322:ALA:CB	2.39	0.52
1:E:12:LEU:HD21	1:E:21:LEU:CD1	2.38	0.52
1:E:51:ASP:O	1:E:52:ILE:HD13	2.09	0.52
1:E:76:SER:HB3	1:F:163:PHE:CE2	2.45	0.52
1:E:130:ILE:HD12	1:E:152:ILE:HB	1.92	0.52
1:E:177:ILE:HD11	1:E:284:PHE:CZ	2.44	0.52
1:F:12:LEU:HD21	1:F:21:LEU:CD1	2.38	0.52
1:F:114:LEU:CG	1:F:156:ALA:HB1	2.38	0.52
1:F:202:GLU:CB	1:I:271:LYS:HE3	2.40	0.52
1:F:272:ARG:HB2	1:I:202:GLU:HA	1.89	0.52
1:G:22:ILE:HG22	1:G:35:ARG:CB	2.35	0.52
1:H:59:ILE:HD11	1:H:95:THR:HG21	1.89	0.52
1:H:127:ARG:HA	1:H:130:ILE:HG12	1.92	0.52
1:K:195:ASN:O	1:K:199:ARG:HG3	2.09	0.52
1:K:320:LYS:O	1:L:49:TYR:CD1	2.26	0.52
1:M:36:VAL:CG1	1:M:96:GLN:NE2	2.68	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:123:LYS:HZ1	1:M:127:ARG:NH1	2.08	0.52
1:M:170:LYS:HZ2	1:N:81:LYS:HB3	1.74	0.52
1:M:317:GLY:O	1:N:48:GLY:O	2.28	0.52
1:N:170:LYS:HZ2	1:O:81:LYS:HB3	1.74	0.52
1:N:177:ILE:HD11	1:N:284:PHE:CZ	2.44	0.52
1:O:105:LYS:NZ	1:O:148:GLU:CB	2.72	0.52
1:P:51:ASP:O	1:P:52:ILE:HD13	2.09	0.52
1:P:59:ILE:HD11	1:P:95:THR:HG21	1.89	0.52
1:P:105:LYS:NZ	1:P:148:GLU:CB	2.72	0.52
1:P:195:ASN:O	1:P:199:ARG:HG3	2.09	0.52
1:A:48:GLY:O	1:B:317:GLY:O	2.28	0.52
1:A:246:ILE:HG13	1:E:49:TYR:CD2	2.45	0.52
1:C:319:TYR:O	1:C:323:VAL:HG13	2.10	0.52
1:E:34:LYS:CA	1:E:35:ARG:O	2.57	0.52
1:E:49:TYR:HB2	1:F:321:VAL:CA	2.28	0.52
1:F:219:ASP:CA	1:F:224:ASN:HB2	1.81	0.52
1:G:22:ILE:HD12	1:G:27:LYS:NZ	2.24	0.52
1:G:116:VAL:HG22	1:G:121:LYS:O	2.08	0.52
1:G:130:ILE:HD12	1:G:152:ILE:HB	1.92	0.52
1:G:183:ASN:ND2	1:J:197:SER:CB	2.65	0.52
1:I:12:LEU:HD21	1:I:21:LEU:CD1	2.38	0.52
1:I:177:ILE:HD11	1:I:284:PHE:CZ	2.44	0.52
1:I:195:ASN:O	1:I:199:ARG:HG3	2.10	0.52
1:I:275:LYS:CB	1:J:218:THR:C	2.78	0.52
1:I:306:ILE:HG13	1:N:230:GLN:HB2	1.92	0.52
1:K:22:ILE:HD12	1:K:27:LYS:NZ	2.24	0.52
1:K:133:ASN:ND2	1:K:148:GLU:CB	2.72	0.52
1:L:22:ILE:HG22	1:L:35:ARG:CB	2.35	0.52
1:M:22:ILE:HD12	1:M:27:LYS:HZ1	1.74	0.52
1:M:109:VAL:CG1	1:M:322:ALA:HB2	2.39	0.52
1:M:299:THR:O	1:N:227:THR:CB	2.58	0.52
1:N:273:GLY:O	1:N:274:PHE:CG	2.63	0.52
1:N:299:THR:O	1:O:227:THR:CB	2.58	0.52
1:O:169:PHE:CD2	1:P:79:THR:CG2	2.93	0.52
1:P:9:VAL:HG13	1:P:322:ALA:CB	2.39	0.52
1:P:21:LEU:HD23	1:P:21:LEU:C	2.30	0.52
1:A:22:ILE:HD12	1:A:27:LYS:NZ	2.24	0.52
1:A:177:ILE:HD11	1:A:284:PHE:CZ	2.44	0.52
1:A:195:ASN:O	1:A:199:ARG:HG3	2.09	0.52
1:A:208:ASP:O	1:A:211:ILE:HG12	2.09	0.52
1:B:47:ASP:OD1	1:C:9:VAL:HG21	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:109:VAL:CG1	1:B:322:ALA:HB2	2.39	0.52
1:C:195:ASN:O	1:C:199:ARG:HG3	2.10	0.52
1:D:22:ILE:HD12	1:D:27:LYS:NZ	2.24	0.52
1:D:114:LEU:CG	1:D:156:ALA:HB1	2.38	0.52
1:D:127:ARG:HA	1:D:130:ILE:HG12	1.92	0.52
1:E:5:THR:CG2	1:E:7:GLU:HG2	2.39	0.52
1:E:195:ASN:O	1:E:199:ARG:HG3	2.10	0.52
1:F:5:THR:CG2	1:F:7:GLU:HG2	2.39	0.52
1:F:133:ASN:ND2	1:F:148:GLU:CB	2.72	0.52
1:F:177:ILE:HD11	1:F:284:PHE:CZ	2.44	0.52
1:F:196:PRO:HB3	1:F:199:ARG:NH2	2.25	0.52
1:G:114:LEU:CG	1:G:156:ALA:HB1	2.38	0.52
1:G:196:PRO:HB3	1:G:199:ARG:NH2	2.25	0.52
1:H:21:LEU:HD23	1:H:21:LEU:C	2.30	0.52
1:H:22:ILE:HD12	1:H:27:LYS:NZ	2.24	0.52
1:H:195:ASN:O	1:H:199:ARG:HG3	2.10	0.52
1:H:201:ILE:HG23	1:K:272:ARG:NH1	2.25	0.52
1:I:21:LEU:HD23	1:I:21:LEU:C	2.30	0.52
1:I:130:ILE:HD12	1:I:152:ILE:HB	1.92	0.52
1:K:127:ARG:HA	1:K:130:ILE:HG12	1.92	0.52
1:K:130:ILE:HD12	1:K:152:ILE:HB	1.92	0.52
1:K:168:ASN:CB	1:L:71:GLN:CG	2.87	0.52
1:K:321:VAL:CA	1:L:49:TYR:HB2	2.28	0.52
1:L:22:ILE:HD12	1:L:27:LYS:NZ	2.24	0.52
1:L:114:LEU:CG	1:L:156:ALA:HB1	2.38	0.52
1:L:195:ASN:O	1:L:199:ARG:HG3	2.10	0.52
1:L:196:PRO:HB3	1:L:199:ARG:NH2	2.25	0.52
1:M:273:GLY:O	1:M:274:PHE:CG	2.63	0.52
1:N:22:ILE:HD12	1:N:27:LYS:NZ	2.24	0.52
1:O:50:ILE:HG13	1:O:50:ILE:O	2.09	0.52
1:P:5:THR:CG2	1:P:7:GLU:HG2	2.39	0.52
1:A:273:GLY:O	1:A:274:PHE:CG	2.63	0.52
1:B:22:ILE:HD12	1:B:27:LYS:NZ	2.24	0.52
1:B:273:GLY:O	1:B:274:PHE:CG	2.63	0.52
1:C:114:LEU:CG	1:C:156:ALA:HB1	2.38	0.52
1:C:130:ILE:HD12	1:C:152:ILE:HB	1.92	0.52
1:C:273:GLY:O	1:C:274:PHE:CG	2.63	0.52
1:D:319:TYR:O	1:D:323:VAL:HG13	2.10	0.52
1:E:164:LEU:HD13	1:E:313:THR:CA	2.40	0.52
1:F:22:ILE:HD12	1:F:27:LYS:NZ	2.24	0.52
1:F:34:LYS:N	1:F:35:ARG:CB	2.72	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:264:ASP:OD1	1:I:267:LYS:O	2.27	0.52
1:G:12:LEU:HD21	1:G:21:LEU:CD1	2.38	0.52
1:H:36:VAL:CG1	1:H:96:GLN:NE2	2.68	0.52
1:H:164:LEU:HD13	1:H:313:THR:CA	2.40	0.52
1:I:34:LYS:N	1:I:35:ARG:CB	2.72	0.52
1:I:139:LYS:H	1:I:143:LYS:N	2.06	0.52
1:J:12:LEU:HD21	1:J:21:LEU:CD1	2.38	0.52
1:K:12:LEU:HD21	1:K:21:LEU:CD1	2.38	0.52
1:K:43:TYR:CE2	1:K:67:LEU:CD1	2.91	0.52
1:K:59:ILE:HD11	1:K:95:THR:HG21	1.89	0.52
1:K:114:LEU:CG	1:K:156:ALA:HB1	2.38	0.52
1:O:9:VAL:HG13	1:O:322:ALA:CB	2.39	0.52
1:O:22:ILE:HD12	1:O:27:LYS:NZ	2.24	0.52
1:O:37:ILE:HG13	1:O:312:TRP:HZ2	1.64	0.52
1:O:299:THR:O	1:P:227:THR:CB	2.58	0.52
1:A:133:ASN:HD22	1:A:148:GLU:CA	2.11	0.51
1:C:46:GLU:HA	1:D:324:ALA:HB1	1.68	0.51
1:D:130:ILE:HD12	1:D:152:ILE:HB	1.92	0.51
1:E:21:LEU:HD23	1:E:21:LEU:C	2.30	0.51
1:E:22:ILE:HD12	1:E:27:LYS:HZ1	1.75	0.51
1:E:139:LYS:H	1:E:143:LYS:N	2.06	0.51
1:F:9:VAL:HG13	1:F:322:ALA:CB	2.39	0.51
1:F:130:ILE:HD12	1:F:152:ILE:HB	1.92	0.51
1:G:5:THR:CG2	1:G:7:GLU:HG2	2.39	0.51
1:I:259:GLU:O	1:I:263:LYS:HG3	2.11	0.51
1:J:70:GLU:CD	1:J:74:GLU:HB3	2.31	0.51
1:J:130:ILE:HD12	1:J:152:ILE:HB	1.92	0.51
1:K:43:TYR:CZ	1:K:67:LEU:CB	2.86	0.51
1:L:319:TYR:O	1:L:323:VAL:HG13	2.10	0.51
1:M:319:TYR:O	1:M:323:VAL:HG13	2.10	0.51
1:N:37:ILE:HG13	1:N:312:TRP:HZ2	1.65	0.51
1:N:169:PHE:CD2	1:O:79:THR:CG2	2.93	0.51
1:N:195:ASN:O	1:N:199:ARG:HG3	2.09	0.51
1:P:34:LYS:N	1:P:35:ARG:CB	2.72	0.51
1:P:319:TYR:O	1:P:323:VAL:HG13	2.10	0.51
1:A:246:ILE:HD11	1:F:320:LYS:C	2.22	0.51
1:B:153:THR:HG21	1:B:325:LYS:CD	2.41	0.51
1:B:319:TYR:O	1:B:323:VAL:HG13	2.10	0.51
1:C:242:LYS:O	1:H:166:GLN:HB3	2.10	0.51
1:C:245:GLU:HB2	1:G:75:ASP:HA	1.88	0.51
1:E:319:TYR:O	1:E:323:VAL:HG13	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:127:ARG:HA	1:F:130:ILE:HG12	1.92	0.51
1:F:259:GLU:O	1:F:263:LYS:HG3	2.11	0.51
1:H:36:VAL:CG2	1:H:38:PHE:CZ	2.94	0.51
1:H:114:LEU:CG	1:H:156:ALA:HB1	2.38	0.51
1:H:133:ASN:HD22	1:H:148:GLU:CA	2.11	0.51
1:I:196:PRO:HB3	1:I:199:ARG:NH2	2.25	0.51
1:I:275:LYS:HB3	1:J:218:THR:C	2.08	0.51
1:J:278:GLN:OE1	1:K:217:LEU:HD23	2.11	0.51
1:K:36:VAL:CG2	1:K:38:PHE:CZ	2.93	0.51
1:K:52:ILE:HA	1:O:248:THR:CG2	2.32	0.51
1:K:163:PHE:CE2	1:L:76:SER:HB3	2.45	0.51
1:K:208:ASP:O	1:K:211:ILE:HG12	2.09	0.51
1:L:164:LEU:HD12	1:L:313:THR:O	2.11	0.51
1:M:169:PHE:CD2	1:N:79:THR:CG2	2.93	0.51
1:N:21:LEU:HD23	1:N:21:LEU:C	2.30	0.51
1:N:317:GLY:O	1:O:48:GLY:O	2.28	0.51
1:N:322:ALA:C	1:O:47:ASP:C	2.62	0.51
1:O:70:GLU:CD	1:O:74:GLU:HB3	2.31	0.51
1:P:22:ILE:HD12	1:P:27:LYS:NZ	2.24	0.51
1:P:219:ASP:CB	1:P:224:ASN:ND2	2.65	0.51
1:P:273:GLY:O	1:P:274:PHE:CG	2.63	0.51
1:A:9:VAL:HG13	1:A:322:ALA:CB	2.39	0.51
1:A:319:TYR:O	1:A:323:VAL:HG13	2.10	0.51
1:B:130:ILE:HD12	1:B:152:ILE:HB	1.92	0.51
1:B:195:ASN:O	1:B:199:ARG:HG3	2.09	0.51
1:B:259:GLU:O	1:B:263:LYS:HG3	2.11	0.51
1:C:9:VAL:HG13	1:C:322:ALA:CB	2.39	0.51
1:C:36:VAL:CG2	1:C:38:PHE:CZ	2.94	0.51
1:D:196:PRO:HB3	1:D:199:ARG:NH2	2.25	0.51
1:E:70:GLU:CD	1:E:74:GLU:HB3	2.31	0.51
1:E:105:LYS:HZ2	1:E:148:GLU:HB3	1.74	0.51
1:E:164:LEU:HD12	1:E:313:THR:O	2.11	0.51
1:E:166:GLN:O	1:E:166:GLN:HG2	2.11	0.51
1:F:198:GLU:HG2	1:I:203:GLU:CD	2.27	0.51
1:F:203:GLU:CB	1:I:272:ARG:O	2.43	0.51
1:G:21:LEU:HD23	1:G:21:LEU:C	2.30	0.51
1:G:36:VAL:CG2	1:G:38:PHE:CZ	2.94	0.51
1:G:271:LYS:HE2	1:J:268:LEU:HD22	1.91	0.51
1:H:10:MET:SD	1:H:21:LEU:HD21	2.51	0.51
1:H:12:LEU:HD21	1:H:21:LEU:CD1	2.38	0.51
1:H:196:PRO:HB3	1:H:199:ARG:NH2	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:273:GLY:O	1:H:274:PHE:CG	2.63	0.51
1:J:36:VAL:CG2	1:J:38:PHE:CZ	2.94	0.51
1:K:39:LYS:HG2	1:K:41:LYS:HG3	1.93	0.51
1:L:12:LEU:HD21	1:L:21:LEU:CD1	2.38	0.51
1:L:130:ILE:HD12	1:L:152:ILE:HB	1.92	0.51
1:L:166:GLN:O	1:L:166:GLN:HG2	2.11	0.51
1:M:255:LYS:O	1:M:259:GLU:HB2	2.11	0.51
1:O:133:ASN:HD22	1:O:148:GLU:CA	2.11	0.51
1:P:127:ARG:HA	1:P:130:ILE:HG12	1.92	0.51
1:P:177:ILE:HD11	1:P:284:PHE:CZ	2.44	0.51
1:A:36:VAL:CG2	1:A:38:PHE:CZ	2.94	0.51
1:A:79:THR:CG2	1:B:169:PHE:CD2	2.93	0.51
1:A:255:LYS:O	1:A:259:GLU:HB2	2.11	0.51
1:B:114:LEU:CG	1:B:156:ALA:HB1	2.38	0.51
1:C:127:ARG:HA	1:C:130:ILE:HG12	1.92	0.51
1:C:177:ILE:HD11	1:C:284:PHE:CZ	2.44	0.51
1:C:196:PRO:HB3	1:C:199:ARG:NH2	2.25	0.51
1:C:241:LYS:CE	1:H:305:ILE:HG22	2.40	0.51
1:D:12:LEU:HD21	1:D:21:LEU:CD1	2.38	0.51
1:D:147:PHE:CE2	1:D:149:ILE:CG2	2.94	0.51
1:D:246:ILE:CA	1:H:50:ILE:O	2.54	0.51
1:D:255:LYS:O	1:D:259:GLU:HB2	2.11	0.51
1:D:273:GLY:O	1:D:274:PHE:CG	2.63	0.51
1:E:22:ILE:HD12	1:E:27:LYS:NZ	2.24	0.51
1:F:139:LYS:H	1:F:143:LYS:N	2.06	0.51
1:F:164:LEU:HD12	1:F:313:THR:O	2.11	0.51
1:G:164:LEU:HD12	1:G:313:THR:O	2.11	0.51
1:H:5:THR:CG2	1:H:7:GLU:HG2	2.39	0.51
1:H:70:GLU:CD	1:H:74:GLU:HB3	2.31	0.51
1:H:259:GLU:O	1:H:263:LYS:HG3	2.11	0.51
1:J:75:ASP:CG	1:N:245:GLU:OE1	2.48	0.51
1:K:70:GLU:CD	1:K:74:GLU:HB3	2.31	0.51
1:K:196:PRO:HB3	1:K:199:ARG:NH2	2.25	0.51
1:K:259:GLU:O	1:K:263:LYS:HG3	2.11	0.51
1:K:319:TYR:O	1:K:323:VAL:HG13	2.10	0.51
1:L:36:VAL:CG2	1:L:38:PHE:CZ	2.94	0.51
1:L:39:LYS:HG2	1:L:41:LYS:HG3	1.93	0.51
1:L:139:LYS:H	1:L:143:LYS:N	2.06	0.51
1:L:219:ASP:CG	1:L:224:ASN:ND2	2.64	0.51
1:M:37:ILE:HG13	1:M:312:TRP:HZ2	1.65	0.51
1:N:259:GLU:O	1:N:263:LYS:HG3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:177:ILE:HD11	1:O:284:PHE:CZ	2.44	0.51
1:P:70:GLU:CD	1:P:74:GLU:HB3	2.31	0.51
1:A:34:LYS:N	1:A:35:ARG:CB	2.72	0.51
1:A:70:GLU:CD	1:A:74:GLU:HB3	2.31	0.51
1:A:147:PHE:CE2	1:A:149:ILE:CG2	2.94	0.51
1:A:166:GLN:O	1:A:166:GLN:HG2	2.11	0.51
1:A:219:ASP:CG	1:A:224:ASN:ND2	2.64	0.51
1:A:242:LYS:CA	1:F:164:LEU:O	2.57	0.51
1:B:79:THR:CG2	1:C:169:PHE:CD2	2.93	0.51
1:C:12:LEU:HD21	1:C:21:LEU:CD1	2.38	0.51
1:C:22:ILE:HD12	1:C:27:LYS:NZ	2.24	0.51
1:C:79:THR:CG2	1:D:169:PHE:CD2	2.93	0.51
1:D:153:THR:HG21	1:D:325:LYS:CD	2.41	0.51
1:E:123:LYS:HZ3	1:E:127:ARG:NH1	2.08	0.51
1:F:36:VAL:CG2	1:F:38:PHE:CZ	2.93	0.51
1:F:49:TYR:HB2	1:G:321:VAL:CA	2.28	0.51
1:F:153:THR:HG21	1:F:325:LYS:CD	2.41	0.51
1:F:284:PHE:HE2	1:F:296:ILE:HG12	1.74	0.51
1:G:39:LYS:HG2	1:G:41:LYS:HG3	1.93	0.51
1:G:59:ILE:HD11	1:G:95:THR:HG21	1.89	0.51
1:G:119:ASN:CG	1:G:120:ALA:H	2.09	0.51
1:G:272:ARG:CA	1:J:202:GLU:HG2	2.41	0.51
1:H:22:ILE:HG22	1:H:312:TRP:CZ3	2.46	0.51
1:H:255:LYS:O	1:H:259:GLU:HB2	2.11	0.51
1:N:9:VAL:HG13	1:N:322:ALA:CB	2.39	0.51
1:N:70:GLU:CD	1:N:74:GLU:HB3	2.31	0.51
1:N:153:THR:HG21	1:N:325:LYS:CD	2.41	0.51
1:N:219:ASP:CG	1:N:224:ASN:ND2	2.64	0.51
1:O:21:LEU:HD23	1:O:21:LEU:C	2.30	0.51
1:O:147:PHE:CE2	1:O:149:ILE:CG2	2.94	0.51
1:O:195:ASN:O	1:O:199:ARG:HG3	2.10	0.51
1:O:259:GLU:O	1:O:263:LYS:HG3	2.11	0.51
1:P:37:ILE:HG13	1:P:312:TRP:HZ2	1.65	0.51
1:P:166:GLN:HG2	1:P:166:GLN:O	2.11	0.51
1:P:255:LYS:O	1:P:259:GLU:HB2	2.11	0.51
1:A:39:LYS:HG2	1:A:41:LYS:HG3	1.93	0.51
1:C:21:LEU:HD23	1:C:21:LEU:C	2.30	0.51
1:C:187:SER:HA	1:C:199:ARG:HG2	1.93	0.51
1:C:227:THR:CB	1:D:299:THR:O	2.58	0.51
1:E:71:GLN:CG	1:F:168:ASN:CB	2.87	0.51
1:E:217:LEU:HD23	1:F:278:GLN:OE1	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:273:GLY:O	1:E:274:PHE:CG	2.63	0.51
1:F:255:LYS:O	1:F:259:GLU:HB2	2.11	0.51
1:F:274:PHE:CE2	1:I:203:GLU:OE1	2.63	0.51
1:G:50:ILE:HG12	1:H:320:LYS:HA	1.89	0.51
1:G:153:THR:HG21	1:G:325:LYS:CD	2.41	0.51
1:G:219:ASP:CG	1:G:224:ASN:ND2	2.64	0.51
1:G:284:PHE:HE2	1:G:296:ILE:HG12	1.74	0.51
1:H:153:THR:HG21	1:H:325:LYS:CD	2.41	0.51
1:H:219:ASP:OD1	1:H:225:LEU:HG	2.11	0.51
1:H:271:LYS:HE3	1:K:202:GLU:CB	2.40	0.51
1:I:36:VAL:CG2	1:I:38:PHE:CZ	2.94	0.51
1:I:70:GLU:CD	1:I:74:GLU:HB3	2.31	0.51
1:I:219:ASP:CG	1:I:224:ASN:ND2	2.64	0.51
1:J:39:LYS:HG2	1:J:41:LYS:HG3	1.93	0.51
1:J:139:LYS:H	1:J:143:LYS:N	2.06	0.51
1:J:273:GLY:O	1:J:274:PHE:CG	2.63	0.51
1:K:164:LEU:HD12	1:K:313:THR:O	2.11	0.51
1:K:273:GLY:O	1:K:274:PHE:CG	2.63	0.51
1:K:305:ILE:HG22	1:P:241:LYS:CE	2.39	0.51
1:L:22:ILE:HG22	1:L:312:TRP:CZ3	2.46	0.51
1:L:153:THR:HG21	1:L:325:LYS:CD	2.40	0.51
1:M:208:ASP:O	1:M:211:ILE:HG12	2.09	0.51
1:N:147:PHE:CE2	1:N:149:ILE:CG2	2.94	0.51
1:N:208:ASP:O	1:N:211:ILE:HG12	2.09	0.51
1:O:187:SER:HA	1:O:199:ARG:HG2	1.93	0.51
1:P:196:PRO:HB3	1:P:199:ARG:NH2	2.25	0.51
1:A:241:LYS:CA	1:F:165:GLU:CD	2.75	0.51
1:B:9:VAL:HG13	1:B:322:ALA:CB	2.39	0.51
1:B:33:ILE:C	1:B:312:TRP:CZ2	2.84	0.51
1:B:39:LYS:HG2	1:B:41:LYS:HG3	1.93	0.51
1:B:227:THR:CB	1:C:299:THR:O	2.58	0.51
1:C:32:ASP:C	1:C:34:LYS:HB2	2.31	0.51
1:C:147:PHE:CE2	1:C:149:ILE:CG2	2.94	0.51
1:C:208:ASP:O	1:C:211:ILE:HG12	2.09	0.51
1:D:33:ILE:C	1:D:312:TRP:CZ2	2.84	0.51
1:E:39:LYS:HG2	1:E:41:LYS:HG3	1.93	0.51
1:E:219:ASP:CG	1:E:224:ASN:ND2	2.64	0.51
1:F:39:LYS:HG2	1:F:41:LYS:HG3	1.93	0.51
1:F:197:SER:CA	1:I:183:ASN:ND2	2.73	0.51
1:G:32:ASP:HB3	1:G:34:LYS:HD2	1.93	0.51
1:G:32:ASP:C	1:G:34:LYS:HB2	2.31	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:71:GLN:CG	1:H:168:ASN:CB	2.87	0.51
1:G:217:LEU:HD23	1:H:278:GLN:OE1	2.11	0.51
1:H:39:LYS:HG2	1:H:41:LYS:HG3	1.93	0.51
1:H:203:GLU:N	1:K:197:SER:O	2.42	0.51
1:I:43:TYR:CE2	1:I:67:LEU:CD1	2.91	0.51
1:I:43:TYR:CZ	1:I:67:LEU:CB	2.87	0.51
1:I:133:ASN:HD22	1:I:148:GLU:CA	2.11	0.51
1:I:273:GLY:O	1:I:274:PHE:CG	2.63	0.51
1:J:153:THR:HG21	1:J:325:LYS:CD	2.41	0.51
1:J:168:ASN:CB	1:K:71:GLN:CG	2.87	0.51
1:J:255:LYS:O	1:J:259:GLU:HB2	2.11	0.51
1:L:33:ILE:C	1:L:312:TRP:CZ2	2.84	0.51
1:L:259:GLU:O	1:L:263:LYS:HG3	2.11	0.51
1:L:273:GLY:O	1:L:274:PHE:CG	2.63	0.51
1:M:9:VAL:HG13	1:M:322:ALA:CB	2.39	0.51
1:N:33:ILE:C	1:N:312:TRP:CZ2	2.84	0.51
1:N:187:SER:HA	1:N:199:ARG:HG2	1.93	0.51
1:N:255:LYS:O	1:N:259:GLU:HB2	2.11	0.51
1:O:34:LYS:N	1:O:35:ARG:CB	2.72	0.51
1:O:123:LYS:HZ1	1:O:127:ARG:NH1	2.09	0.51
1:O:219:ASP:CG	1:O:224:ASN:ND2	2.64	0.51
1:O:317:GLY:O	1:P:48:GLY:O	2.28	0.51
1:P:10:MET:SD	1:P:21:LEU:HD21	2.51	0.51
1:P:33:ILE:C	1:P:312:TRP:CZ2	2.84	0.51
1:P:123:LYS:HZ1	1:P:127:ARG:NH1	2.09	0.51
1:A:32:ASP:C	1:A:34:LYS:HB2	2.31	0.51
1:A:68:ILE:O	1:A:68:ILE:HG13	2.11	0.51
1:B:12:LEU:HD21	1:B:21:LEU:CD1	2.38	0.51
1:B:68:ILE:HG13	1:B:68:ILE:O	2.11	0.51
1:B:70:GLU:CD	1:B:74:GLU:HB3	2.31	0.51
1:B:147:PHE:CE2	1:B:149:ILE:CG2	2.94	0.51
1:B:196:PRO:HB3	1:B:199:ARG:NH2	2.25	0.51
1:C:21:LEU:O	1:C:35:ARG:HB3	2.11	0.51
1:C:130:ILE:O	1:C:149:ILE:HD13	2.11	0.51
1:C:259:GLU:O	1:C:263:LYS:HG3	2.11	0.51
1:C:308:ASN:ND2	1:G:241:LYS:C	2.64	0.51
1:D:187:SER:HA	1:D:199:ARG:HG2	1.93	0.51
1:E:10:MET:SD	1:E:21:LEU:HD21	2.51	0.51
1:E:196:PRO:HB3	1:E:199:ARG:NH2	2.25	0.51
1:E:255:LYS:O	1:E:259:GLU:HB2	2.11	0.51
1:F:32:ASP:C	1:F:34:LYS:HB2	2.31	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:10:MET:SD	1:G:21:LEU:HD21	2.51	0.51
1:G:147:PHE:CE2	1:G:149:ILE:CG2	2.94	0.51
1:H:33:ILE:C	1:H:312:TRP:CZ2	2.84	0.51
1:H:164:LEU:HD12	1:H:313:THR:O	2.11	0.51
1:H:203:GLU:CD	1:K:198:GLU:HG2	2.30	0.51
1:H:219:ASP:CG	1:H:224:ASN:ND2	2.64	0.51
1:H:272:ARG:N	1:K:202:GLU:HG2	2.26	0.51
1:I:39:LYS:HG2	1:I:41:LYS:HG3	1.93	0.51
1:J:10:MET:SD	1:J:21:LEU:HD21	2.51	0.51
1:J:33:ILE:C	1:J:312:TRP:CZ2	2.84	0.51
1:J:127:ARG:HA	1:J:130:ILE:HG12	1.92	0.51
1:J:219:ASP:CG	1:J:224:ASN:ND2	2.64	0.51
1:J:230:GLN:HE22	1:N:290:GLN:HB3	1.74	0.51
1:K:10:MET:SD	1:K:21:LEU:HD21	2.51	0.51
1:K:255:LYS:O	1:K:259:GLU:HB2	2.11	0.51
1:L:43:TYR:CE2	1:L:67:LEU:CD1	2.91	0.51
1:M:19:THR:CG2	1:M:40:THR:HG22	2.36	0.51
1:M:39:LYS:HG2	1:M:41:LYS:HG3	1.93	0.51
1:M:177:ILE:HD11	1:M:284:PHE:CZ	2.44	0.51
1:M:196:PRO:HB3	1:M:199:ARG:NH2	2.25	0.51
1:M:219:ASP:CG	1:M:224:ASN:ND2	2.64	0.51
1:M:219:ASP:OD1	1:M:225:LEU:HG	2.11	0.51
1:N:155:LYS:HG3	1:N:156:ALA:N	2.26	0.51
1:N:319:TYR:O	1:N:323:VAL:HG13	2.10	0.51
1:O:10:MET:SD	1:O:21:LEU:HD21	2.51	0.51
1:O:319:TYR:O	1:O:323:VAL:HG13	2.10	0.51
1:P:12:LEU:HD21	1:P:21:LEU:CD1	2.38	0.51
1:A:130:ILE:HD12	1:A:152:ILE:HB	1.92	0.51
1:A:153:THR:HG21	1:A:325:LYS:CD	2.41	0.51
1:A:155:LYS:HG3	1:A:156:ALA:N	2.26	0.51
1:A:227:THR:CB	1:B:299:THR:O	2.58	0.51
1:A:259:GLU:O	1:A:263:LYS:HG3	2.11	0.51
1:B:21:LEU:O	1:B:35:ARG:HB3	2.11	0.51
1:B:219:ASP:CG	1:B:224:ASN:ND2	2.64	0.51
1:B:245:GLU:OE1	1:F:75:ASP:CG	2.49	0.51
1:C:22:ILE:HG22	1:C:312:TRP:CZ3	2.46	0.51
1:C:227:THR:HG23	1:D:301:PRO:CD	2.38	0.51
1:D:70:GLU:CD	1:D:74:GLU:HB3	2.31	0.51
1:E:153:THR:HG21	1:E:325:LYS:CD	2.40	0.51
1:E:186:PHE:HE2	1:E:269:ILE:HD11	1.70	0.51
1:E:219:ASP:CG	1:F:277:ASP:HB2	2.31	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:147:PHE:CE2	1:F:149:ILE:CG2	2.94	0.51
1:F:319:TYR:O	1:F:323:VAL:HG13	2.10	0.51
1:G:27:LYS:HZ1	1:G:35:ARG:HE	1.58	0.51
1:H:32:ASP:C	1:H:34:LYS:HB2	2.32	0.51
1:H:120:ALA:CB	1:K:120:ALA:HB2	2.21	0.51
1:H:147:PHE:CE2	1:H:149:ILE:CG2	2.94	0.51
1:H:166:GLN:HG2	1:H:166:GLN:O	2.11	0.51
1:H:183:ASN:OD1	1:K:197:SER:CB	2.59	0.51
1:I:75:ASP:HA	1:M:245:GLU:HB2	1.89	0.51
1:I:164:LEU:HD12	1:I:313:THR:O	2.11	0.51
1:K:22:ILE:HG22	1:K:312:TRP:CZ3	2.46	0.51
1:K:139:LYS:H	1:K:143:LYS:N	2.06	0.51
1:K:153:THR:HG21	1:K:325:LYS:CD	2.41	0.51
1:K:164:LEU:HD13	1:K:313:THR:CA	2.40	0.51
1:K:184:MET:HE1	1:K:265:ALA:HB2	1.93	0.51
1:K:278:GLN:OE1	1:L:217:LEU:HD23	2.11	0.51
1:L:59:ILE:HD11	1:L:95:THR:HG21	1.89	0.51
1:L:222:ASN:HD22	1:L:237:ASN:HB2	1.75	0.51
1:M:10:MET:SD	1:M:21:LEU:HD21	2.51	0.51
1:M:21:LEU:O	1:M:35:ARG:HB3	2.11	0.51
1:N:21:LEU:O	1:N:35:ARG:HB3	2.11	0.51
1:N:219:ASP:OD1	1:N:225:LEU:HG	2.11	0.51
1:O:19:THR:CG2	1:O:40:THR:HG22	2.36	0.51
1:O:166:GLN:O	1:O:166:GLN:HG2	2.11	0.51
1:O:196:PRO:HB3	1:O:199:ARG:NH2	2.25	0.51
1:O:321:VAL:O	1:O:325:LYS:HG2	2.11	0.51
1:O:323:VAL:CG2	1:P:47:ASP:C	2.57	0.51
1:P:43:TYR:CZ	1:P:67:LEU:CB	2.87	0.51
1:A:114:LEU:CG	1:A:156:ALA:HB1	2.38	0.51
1:A:187:SER:HA	1:A:199:ARG:HG2	1.93	0.51
1:B:47:ASP:C	1:C:322:ALA:C	2.62	0.51
1:B:130:ILE:O	1:B:149:ILE:HD13	2.11	0.51
1:B:187:SER:HA	1:B:199:ARG:HG2	1.93	0.51
1:C:230:GLN:CA	1:H:308:ASN:OD1	2.51	0.51
1:D:22:ILE:HG22	1:D:312:TRP:CZ3	2.46	0.51
1:D:219:ASP:CG	1:D:224:ASN:ND2	2.64	0.51
1:E:147:PHE:CE2	1:E:149:ILE:CG2	2.94	0.51
1:F:10:MET:SD	1:F:21:LEU:HD21	2.51	0.51
1:F:32:ASP:HB3	1:F:34:LYS:HD2	1.93	0.51
1:F:50:ILE:HG21	1:G:319:TYR:CE2	2.47	0.51
1:F:59:ILE:HD11	1:F:95:THR:HG21	1.89	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:183:ASN:OD1	1:I:197:SER:OG	2.22	0.51
1:F:219:ASP:CG	1:F:224:ASN:ND2	2.64	0.51
1:F:273:GLY:O	1:F:274:PHE:CG	2.63	0.51
1:G:218:THR:OG1	1:H:278:GLN:HB3	1.87	0.51
1:I:127:ARG:HA	1:I:130:ILE:HG12	1.92	0.51
1:I:153:THR:HG21	1:I:325:LYS:CD	2.41	0.51
1:J:34:LYS:N	1:J:35:ARG:CB	2.72	0.51
1:J:277:ASP:HB2	1:K:219:ASP:CG	2.32	0.51
1:J:319:TYR:O	1:J:323:VAL:HG13	2.10	0.51
1:K:319:TYR:CE2	1:L:50:ILE:HG21	2.46	0.51
1:L:21:LEU:O	1:L:35:ARG:HB3	2.11	0.51
1:L:130:ILE:O	1:L:149:ILE:HD13	2.11	0.51
1:L:155:LYS:HG3	1:L:156:ALA:N	2.26	0.51
1:M:114:LEU:CG	1:M:156:ALA:HB1	2.38	0.51
1:M:147:PHE:CE2	1:M:149:ILE:CG2	2.94	0.51
1:M:155:LYS:HG3	1:M:156:ALA:N	2.26	0.51
1:N:301:PRO:CD	1:O:227:THR:HG23	2.38	0.51
1:N:321:VAL:O	1:N:325:LYS:HG2	2.11	0.51
1:O:127:ARG:HA	1:O:130:ILE:HG12	1.92	0.51
1:O:130:ILE:HD12	1:O:152:ILE:HB	1.92	0.51
1:O:222:ASN:HD22	1:O:237:ASN:HB2	1.75	0.51
1:P:130:ILE:HD12	1:P:152:ILE:HB	1.92	0.51
1:P:147:PHE:CE2	1:P:149:ILE:CG2	2.94	0.51
1:P:187:SER:HA	1:P:199:ARG:HG2	1.93	0.51
1:P:310:SER:HA	1:P:313:THR:CG2	2.42	0.51
1:A:12:LEU:HD21	1:A:21:LEU:CD1	2.38	0.50
1:A:21:LEU:O	1:A:35:ARG:HB3	2.11	0.50
1:B:32:ASP:C	1:B:34:LYS:HB2	2.31	0.50
1:B:166:GLN:O	1:B:166:GLN:HG2	2.11	0.50
1:B:227:THR:CB	1:C:301:PRO:HD3	1.89	0.50
1:B:255:LYS:O	1:B:259:GLU:HB2	2.11	0.50
1:B:308:ASN:ND2	1:F:241:LYS:HB3	2.26	0.50
1:C:153:THR:HG21	1:C:325:LYS:CD	2.41	0.50
1:D:21:LEU:O	1:D:35:ARG:HB3	2.11	0.50
1:D:32:ASP:C	1:D:34:LYS:HB2	2.31	0.50
1:D:83:ASN:N	1:D:84:LEU:HB3	2.26	0.50
1:D:161:VAL:HG11	1:D:285:ILE:CD1	2.42	0.50
1:D:321:VAL:O	1:D:325:LYS:HG2	2.11	0.50
1:E:36:VAL:CG2	1:E:38:PHE:CZ	2.94	0.50
1:F:70:GLU:CD	1:F:74:GLU:HB3	2.31	0.50
1:F:164:LEU:O	1:F:164:LEU:HD23	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:219:ASP:CG	1:G:277:ASP:HB2	2.31	0.50
1:G:22:ILE:HG22	1:G:312:TRP:CZ3	2.46	0.50
1:G:33:ILE:C	1:G:312:TRP:CZ2	2.84	0.50
1:G:70:GLU:CD	1:G:74:GLU:HB3	2.31	0.50
1:G:83:ASN:N	1:G:84:LEU:HB3	2.26	0.50
1:G:186:PHE:HE2	1:G:269:ILE:HD11	1.70	0.50
1:G:259:GLU:O	1:G:263:LYS:HG3	2.11	0.50
1:G:273:GLY:O	1:G:274:PHE:CG	2.63	0.50
1:I:219:ASP:OD1	1:I:225:LEU:HG	2.11	0.50
1:J:196:PRO:HB3	1:J:199:ARG:NH2	2.25	0.50
1:J:275:LYS:HZ2	1:K:219:ASP:HB3	1.76	0.50
1:J:308:ASN:O	1:O:229:GLU:OE1	2.29	0.50
1:J:319:TYR:CE2	1:K:50:ILE:HG21	2.46	0.50
1:K:21:LEU:O	1:K:35:ARG:HB3	2.11	0.50
1:K:52:ILE:H	1:K:74:GLU:CG	2.06	0.50
1:K:130:ILE:O	1:K:149:ILE:HD13	2.11	0.50
1:K:161:VAL:HG11	1:K:285:ILE:CD1	2.41	0.50
1:L:10:MET:SD	1:L:21:LEU:HD21	2.51	0.50
1:L:70:GLU:CD	1:L:74:GLU:HB3	2.31	0.50
1:M:32:ASP:C	1:M:34:LYS:HB2	2.31	0.50
1:M:127:ARG:HA	1:M:130:ILE:HG12	1.92	0.50
1:N:19:THR:CG2	1:N:40:THR:HG22	2.36	0.50
1:N:36:VAL:CG2	1:N:38:PHE:CZ	2.94	0.50
1:N:39:LYS:HG2	1:N:41:LYS:HG3	1.93	0.50
1:O:12:LEU:HD21	1:O:21:LEU:CD1	2.38	0.50
1:O:21:LEU:O	1:O:35:ARG:HB3	2.11	0.50
1:O:153:THR:HG21	1:O:325:LYS:CD	2.41	0.50
1:O:219:ASP:OD1	1:O:225:LEU:HG	2.11	0.50
1:P:50:ILE:HG13	1:P:50:ILE:O	2.09	0.50
1:P:153:THR:HG21	1:P:325:LYS:CD	2.41	0.50
1:P:219:ASP:CG	1:P:224:ASN:ND2	2.64	0.50
1:A:10:MET:SD	1:A:21:LEU:HD21	2.51	0.50
1:A:22:ILE:HG22	1:A:312:TRP:CZ3	2.46	0.50
1:A:164:LEU:HD23	1:A:164:LEU:O	2.11	0.50
1:A:321:VAL:O	1:A:325:LYS:HG2	2.11	0.50
1:B:161:VAL:HG11	1:B:285:ILE:CD1	2.42	0.50
1:C:161:VAL:HG11	1:C:285:ILE:CD1	2.41	0.50
1:D:130:ILE:O	1:D:149:ILE:HD13	2.11	0.50
1:D:166:GLN:O	1:D:166:GLN:HG2	2.11	0.50
1:E:33:ILE:C	1:E:312:TRP:CZ2	2.84	0.50
1:E:34:LYS:N	1:E:35:ARG:CB	2.72	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:161:VAL:HG11	1:E:285:ILE:CD1	2.42	0.50
1:F:22:ILE:HD12	1:F:27:LYS:HZ1	1.77	0.50
1:G:50:ILE:HG21	1:H:319:TYR:CE2	2.47	0.50
1:G:99:ASP:HA	1:G:145:TYR:CE1	2.47	0.50
1:G:202:GLU:HG2	1:J:272:ARG:CA	2.41	0.50
1:H:119:ASN:HD21	1:K:119:ASN:CA	2.23	0.50
1:H:155:LYS:HG3	1:H:156:ALA:N	2.26	0.50
1:H:319:TYR:O	1:H:323:VAL:HG13	2.10	0.50
1:I:27:LYS:NZ	1:I:35:ARG:NH2	2.59	0.50
1:I:32:ASP:C	1:I:34:LYS:HB2	2.32	0.50
1:I:33:ILE:C	1:I:312:TRP:CZ2	2.84	0.50
1:I:114:LEU:CG	1:I:156:ALA:HB1	2.38	0.50
1:I:164:LEU:HD23	1:I:164:LEU:O	2.11	0.50
1:I:308:ASN:HB3	1:N:228:ASN:C	2.24	0.50
1:J:21:LEU:O	1:J:35:ARG:HB3	2.11	0.50
1:J:165:GLU:HG2	1:O:241:LYS:HB3	1.93	0.50
1:K:33:ILE:C	1:K:312:TRP:CZ2	2.84	0.50
1:K:95:THR:HG22	1:K:136:ILE:CD1	2.24	0.50
1:K:155:LYS:HG3	1:K:156:ALA:N	2.26	0.50
1:K:164:LEU:O	1:K:164:LEU:HD23	2.11	0.50
1:M:33:ILE:C	1:M:312:TRP:CZ2	2.84	0.50
1:M:70:GLU:CD	1:M:74:GLU:HB3	2.31	0.50
1:M:116:VAL:CG2	1:M:122:ALA:HB3	2.40	0.50
1:M:130:ILE:HD12	1:M:152:ILE:HB	1.92	0.50
1:N:10:MET:SD	1:N:21:LEU:HD21	2.51	0.50
1:N:130:ILE:O	1:N:149:ILE:HD13	2.11	0.50
1:O:32:ASP:C	1:O:34:LYS:HB2	2.31	0.50
1:O:155:LYS:HG3	1:O:156:ALA:N	2.26	0.50
1:O:310:SER:HA	1:O:313:THR:CG2	2.42	0.50
1:P:99:ASP:HA	1:P:145:TYR:CE1	2.47	0.50
1:P:186:PHE:HE2	1:P:269:ILE:HD11	1.70	0.50
1:A:47:ASP:C	1:B:322:ALA:C	2.62	0.50
1:A:228:ASN:O	1:F:308:ASN:HB3	2.11	0.50
1:B:22:ILE:HG22	1:B:35:ARG:CB	2.35	0.50
1:B:22:ILE:HD12	1:B:27:LYS:HZ1	1.75	0.50
1:B:27:LYS:NZ	1:B:35:ARG:NH2	2.59	0.50
1:B:155:LYS:HG3	1:B:156:ALA:N	2.26	0.50
1:C:39:LYS:HG2	1:C:41:LYS:HG3	1.93	0.50
1:C:83:ASN:N	1:C:84:LEU:HB3	2.26	0.50
1:C:255:LYS:O	1:C:259:GLU:HB2	2.11	0.50
1:E:22:ILE:HG22	1:E:312:TRP:CZ3	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:161:VAL:HG11	1:F:285:ILE:CD1	2.41	0.50
1:F:197:SER:CA	1:I:183:ASN:HD21	2.23	0.50
1:G:161:VAL:HG11	1:G:285:ILE:CD1	2.42	0.50
1:G:203:GLU:H	1:J:272:ARG:HG3	0.71	0.50
1:H:161:VAL:HG11	1:H:285:ILE:CD1	2.42	0.50
1:I:110:LEU:HD23	1:I:111:ALA:O	2.12	0.50
1:I:147:PHE:CE2	1:I:149:ILE:CG2	2.94	0.50
1:J:43:TYR:CE2	1:J:67:LEU:CD1	2.91	0.50
1:J:83:ASN:N	1:J:84:LEU:HB3	2.26	0.50
1:J:184:MET:HE1	1:J:265:ALA:HB2	1.93	0.50
1:J:259:GLU:O	1:J:263:LYS:HG3	2.11	0.50
1:J:310:SER:HA	1:J:313:THR:CG2	2.41	0.50
1:K:32:ASP:C	1:K:34:LYS:HB2	2.31	0.50
1:K:83:ASN:N	1:K:84:LEU:HB3	2.27	0.50
1:K:133:ASN:ND2	1:K:148:GLU:HG3	2.27	0.50
1:K:219:ASP:CG	1:K:224:ASN:ND2	2.64	0.50
1:K:277:ASP:CG	1:L:219:ASP:C	2.70	0.50
1:L:74:GLU:C	1:P:245:GLU:CB	2.70	0.50
1:L:83:ASN:N	1:L:84:LEU:HB3	2.27	0.50
1:L:110:LEU:HD23	1:L:111:ALA:O	2.12	0.50
1:M:130:ILE:O	1:M:149:ILE:HD13	2.11	0.50
1:M:164:LEU:HD12	1:M:313:THR:O	2.11	0.50
1:M:187:SER:HA	1:M:199:ARG:HG2	1.93	0.50
1:M:259:GLU:O	1:M:263:LYS:HG3	2.11	0.50
1:N:99:ASP:HA	1:N:145:TYR:CE1	2.47	0.50
1:O:68:ILE:HG13	1:O:68:ILE:O	2.11	0.50
1:O:164:LEU:O	1:O:164:LEU:HD23	2.11	0.50
1:O:255:LYS:O	1:O:259:GLU:HB2	2.11	0.50
1:P:36:VAL:CG2	1:P:38:PHE:CZ	2.94	0.50
1:A:50:ILE:HB	1:F:245:GLU:OE2	2.12	0.50
1:A:127:ARG:HA	1:A:130:ILE:HG12	1.92	0.50
1:A:130:ILE:O	1:A:149:ILE:HD13	2.11	0.50
1:A:196:PRO:HB3	1:A:199:ARG:NH2	2.25	0.50
1:A:247:ASP:N	1:E:52:ILE:CG1	2.67	0.50
1:A:315:CYS:SG	1:A:316:GLU:N	2.85	0.50
1:B:164:LEU:HD12	1:B:313:THR:O	2.11	0.50
1:B:321:VAL:O	1:B:325:LYS:HG2	2.11	0.50
1:C:10:MET:SD	1:C:21:LEU:HD21	2.51	0.50
1:D:36:VAL:CG2	1:D:38:PHE:CZ	2.94	0.50
1:E:127:ARG:HA	1:E:130:ILE:HG12	1.92	0.50
1:E:219:ASP:C	1:F:277:ASP:CG	2.70	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:83:ASN:N	1:F:84:LEU:HB3	2.27	0.50
1:F:99:ASP:HA	1:F:145:TYR:CE1	2.47	0.50
1:F:110:LEU:HD23	1:F:111:ALA:O	2.12	0.50
1:G:203:GLU:HB2	1:J:198:GLU:N	2.26	0.50
1:G:268:LEU:HD22	1:J:271:LYS:HE2	1.92	0.50
1:H:58:LYS:HZ2	1:H:65:GLU:CG	2.25	0.50
1:H:186:PHE:HE2	1:H:269:ILE:HD11	1.70	0.50
1:H:187:SER:HA	1:H:199:ARG:HG2	1.93	0.50
1:I:21:LEU:O	1:I:35:ARG:HB3	2.11	0.50
1:I:161:VAL:HG11	1:I:285:ILE:CD1	2.42	0.50
1:I:306:ILE:HG13	1:N:230:GLN:CB	2.42	0.50
1:J:22:ILE:HG22	1:J:312:TRP:CZ3	2.46	0.50
1:J:74:GLU:C	1:N:245:GLU:O	2.49	0.50
1:J:114:LEU:CG	1:J:156:ALA:HB1	2.38	0.50
1:J:130:ILE:O	1:J:149:ILE:HD13	2.11	0.50
1:J:133:ASN:ND2	1:J:148:GLU:HG3	2.27	0.50
1:K:68:ILE:O	1:K:68:ILE:HG13	2.11	0.50
1:K:222:ASN:HD22	1:K:237:ASN:HB2	1.75	0.50
1:K:310:SER:HA	1:K:313:THR:CG2	2.42	0.50
1:L:255:LYS:O	1:L:259:GLU:HB2	2.11	0.50
1:M:22:ILE:HG22	1:M:312:TRP:CZ3	2.46	0.50
1:M:182:LEU:HD23	1:M:182:LEU:O	2.12	0.50
1:N:12:LEU:HD21	1:N:21:LEU:CD1	2.38	0.50
1:N:43:TYR:CZ	1:N:67:LEU:CB	2.87	0.50
1:N:68:ILE:O	1:N:68:ILE:HG13	2.11	0.50
1:N:116:VAL:CG2	1:N:122:ALA:HB3	2.40	0.50
1:N:130:ILE:HD12	1:N:152:ILE:HB	1.92	0.50
1:N:166:GLN:HG2	1:N:166:GLN:O	2.11	0.50
1:N:315:CYS:SG	1:N:316:GLU:N	2.85	0.50
1:O:130:ILE:O	1:O:149:ILE:HD13	2.11	0.50
1:P:21:LEU:O	1:P:35:ARG:HB3	2.11	0.50
1:P:219:ASP:OD1	1:P:225:LEU:HG	2.11	0.50
1:A:27:LYS:NZ	1:A:35:ARG:NH2	2.59	0.50
1:A:161:VAL:HG11	1:A:285:ILE:CD1	2.42	0.50
1:A:227:THR:HG23	1:B:301:PRO:CD	2.38	0.50
1:B:10:MET:SD	1:B:21:LEU:HD21	2.51	0.50
1:B:36:VAL:CG2	1:B:38:PHE:CZ	2.94	0.50
1:B:127:ARG:HA	1:B:130:ILE:HG12	1.92	0.50
1:B:133:ASN:ND2	1:B:148:GLU:HG3	2.27	0.50
1:C:68:ILE:O	1:C:68:ILE:HG13	2.11	0.50
1:C:70:GLU:CD	1:C:74:GLU:HB3	2.31	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:164:LEU:HD12	1:C:313:THR:O	2.11	0.50
1:C:166:GLN:HG2	1:C:166:GLN:O	2.11	0.50
1:C:315:CYS:SG	1:C:316:GLU:N	2.85	0.50
1:D:240:MET:HE2	1:H:73:VAL:CG2	2.40	0.50
1:E:27:LYS:NZ	1:E:35:ARG:NH2	2.59	0.50
1:E:32:ASP:HB3	1:E:34:LYS:HD2	1.93	0.50
1:E:32:ASP:C	1:E:34:LYS:HB2	2.32	0.50
1:E:50:ILE:HG21	1:F:319:TYR:CE2	2.47	0.50
1:E:130:ILE:O	1:E:149:ILE:HD13	2.12	0.50
1:F:310:SER:HA	1:F:313:THR:CG2	2.41	0.50
1:G:155:LYS:HG3	1:G:156:ALA:N	2.26	0.50
1:G:219:ASP:CG	1:G:224:ASN:HD22	2.15	0.50
1:G:315:CYS:SG	1:G:316:GLU:N	2.85	0.50
1:H:164:LEU:O	1:H:164:LEU:HD23	2.11	0.50
1:H:203:GLU:HG3	1:K:198:GLU:HG3	0.61	0.50
1:I:10:MET:SD	1:I:21:LEU:HD21	2.51	0.50
1:I:83:ASN:N	1:I:84:LEU:HB3	2.26	0.50
1:I:133:ASN:ND2	1:I:148:GLU:HG3	2.27	0.50
1:I:319:TYR:O	1:I:323:VAL:HG13	2.10	0.50
1:I:321:VAL:CA	1:J:49:TYR:HB2	2.28	0.50
1:I:323:VAL:C	1:J:47:ASP:CA	2.71	0.50
1:J:68:ILE:HG13	1:J:68:ILE:O	2.11	0.50
1:J:147:PHE:CE2	1:J:149:ILE:CG2	2.94	0.50
1:J:155:LYS:HG3	1:J:156:ALA:N	2.26	0.50
1:J:164:LEU:O	1:J:164:LEU:HD23	2.11	0.50
1:J:187:SER:HA	1:J:199:ARG:HG2	1.93	0.50
1:K:315:CYS:SG	1:K:316:GLU:N	2.85	0.50
1:L:32:ASP:C	1:L:34:LYS:HB2	2.32	0.50
1:N:164:LEU:HD12	1:N:313:THR:O	2.11	0.50
1:N:182:LEU:O	1:N:182:LEU:HD23	2.12	0.50
1:N:196:PRO:HB3	1:N:199:ARG:NH2	2.25	0.50
1:O:36:VAL:CG2	1:O:38:PHE:CZ	2.94	0.50
1:P:68:ILE:HG13	1:P:68:ILE:O	2.11	0.50
1:P:164:LEU:O	1:P:164:LEU:HD23	2.11	0.50
1:A:208:ASP:CA	1:A:211:ILE:HG12	2.42	0.50
1:B:32:ASP:HB3	1:B:34:LYS:HD2	1.93	0.50
1:B:34:LYS:N	1:B:35:ARG:CB	2.72	0.50
1:B:208:ASP:CA	1:B:211:ILE:HG12	2.42	0.50
1:B:229:GLU:N	1:G:308:ASN:CB	2.33	0.50
1:C:155:LYS:HG3	1:C:156:ALA:N	2.26	0.50
1:C:219:ASP:CG	1:C:224:ASN:HD22	2.15	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:321:VAL:O	1:C:325:LYS:HG2	2.11	0.50
1:D:164:LEU:O	1:D:164:LEU:HD23	2.11	0.50
1:E:43:TYR:CE2	1:E:67:LEU:CD1	2.91	0.50
1:E:187:SER:HA	1:E:199:ARG:HG2	1.93	0.50
1:E:208:ASP:HA	1:E:211:ILE:CG1	2.42	0.50
1:E:259:GLU:O	1:E:263:LYS:HG3	2.11	0.50
1:F:183:ASN:OD1	1:I:197:SER:CB	2.59	0.50
1:F:187:SER:HA	1:F:199:ARG:HG2	1.93	0.50
1:F:217:LEU:HD23	1:G:278:GLN:OE1	2.11	0.50
1:F:219:ASP:CG	1:F:224:ASN:HD22	2.15	0.50
1:F:315:CYS:SG	1:F:316:GLU:N	2.85	0.50
1:G:164:LEU:O	1:G:164:LEU:HD23	2.11	0.50
1:G:255:LYS:O	1:G:259:GLU:HB2	2.11	0.50
1:H:315:CYS:SG	1:H:316:GLU:N	2.85	0.50
1:I:22:ILE:HG22	1:I:312:TRP:CZ3	2.46	0.50
1:I:155:LYS:HG3	1:I:156:ALA:N	2.26	0.50
1:J:32:ASP:C	1:J:34:LYS:HB2	2.32	0.50
1:J:99:ASP:HA	1:J:145:TYR:CE1	2.47	0.50
1:J:182:LEU:HD23	1:J:182:LEU:O	2.12	0.50
1:K:187:SER:HA	1:K:199:ARG:HG2	1.93	0.50
1:L:68:ILE:HG13	1:L:68:ILE:O	2.11	0.50
1:L:187:SER:HA	1:L:199:ARG:HG2	1.93	0.50
1:L:315:CYS:SG	1:L:316:GLU:N	2.85	0.50
1:M:164:LEU:O	1:M:164:LEU:HD23	2.11	0.50
1:M:166:GLN:O	1:M:166:GLN:HG2	2.11	0.50
1:N:114:LEU:CG	1:N:156:ALA:HB1	2.38	0.50
1:O:105:LYS:HZ2	1:O:148:GLU:HB3	1.77	0.50
1:P:130:ILE:O	1:P:149:ILE:HD13	2.11	0.50
1:P:222:ASN:HD22	1:P:237:ASN:HB2	1.75	0.50
1:P:321:VAL:O	1:P:325:LYS:HG2	2.11	0.50
1:A:32:ASP:HB3	1:A:34:LYS:HD2	1.93	0.50
1:A:133:ASN:ND2	1:A:148:GLU:HG3	2.27	0.50
1:B:164:LEU:O	1:B:164:LEU:HD23	2.11	0.50
1:C:33:ILE:C	1:C:312:TRP:CZ2	2.84	0.50
1:C:208:ASP:CA	1:C:211:ILE:HG12	2.42	0.50
1:C:219:ASP:CG	1:C:224:ASN:ND2	2.64	0.50
1:D:95:THR:CB	1:D:136:ILE:HG21	2.42	0.50
1:D:99:ASP:HA	1:D:145:TYR:CE1	2.47	0.50
1:D:182:LEU:O	1:D:182:LEU:HD23	2.12	0.50
1:D:219:ASP:CG	1:D:224:ASN:HD22	2.15	0.50
1:E:155:LYS:HG3	1:E:156:ALA:N	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:133:ASN:ND2	1:F:148:GLU:HG3	2.27	0.50
1:F:164:LEU:HD13	1:F:313:THR:CA	2.40	0.50
1:G:110:LEU:HD23	1:G:111:ALA:O	2.12	0.50
1:G:187:SER:HA	1:G:199:ARG:HG2	1.93	0.50
1:H:68:ILE:O	1:H:68:ILE:HG13	2.11	0.50
1:H:130:ILE:O	1:H:149:ILE:HD13	2.11	0.50
1:H:310:SER:HA	1:H:313:THR:CG2	2.41	0.50
1:I:130:ILE:O	1:I:149:ILE:HD13	2.11	0.50
1:I:187:SER:HA	1:I:199:ARG:HG2	1.93	0.50
1:I:208:ASP:HA	1:I:211:ILE:CG1	2.42	0.50
1:I:255:LYS:O	1:I:259:GLU:HB2	2.11	0.50
1:I:319:TYR:CE2	1:J:50:ILE:HG21	2.47	0.50
1:J:52:ILE:HG12	1:N:245:GLU:C	2.31	0.50
1:J:119:ASN:CG	1:J:120:ALA:H	2.09	0.50
1:J:161:VAL:HG11	1:J:285:ILE:CD1	2.42	0.50
1:J:164:LEU:HD12	1:J:313:THR:O	2.11	0.50
1:J:222:ASN:HD22	1:J:237:ASN:HB2	1.75	0.50
1:J:309:ASN:C	1:O:229:GLU:OE2	2.40	0.50
1:K:147:PHE:CE2	1:K:149:ILE:CG2	2.94	0.50
1:K:182:LEU:O	1:K:182:LEU:HD23	2.12	0.50
1:L:99:ASP:HA	1:L:145:TYR:CE1	2.47	0.50
1:L:133:ASN:ND2	1:L:148:GLU:HG3	2.27	0.50
1:L:147:PHE:CE2	1:L:149:ILE:CG2	2.94	0.50
1:L:164:LEU:O	1:L:164:LEU:HD23	2.11	0.50
1:M:36:VAL:CG2	1:M:38:PHE:CZ	2.94	0.50
1:M:68:ILE:HG13	1:M:68:ILE:O	2.11	0.50
1:M:323:VAL:CA	1:N:47:ASP:O	2.48	0.50
1:N:164:LEU:HD23	1:N:164:LEU:O	2.11	0.50
1:O:116:VAL:CG2	1:O:122:ALA:HB3	2.40	0.50
1:O:182:LEU:O	1:O:182:LEU:HD23	2.12	0.50
1:P:19:THR:CG2	1:P:40:THR:HG22	2.36	0.50
1:P:110:LEU:HD23	1:P:111:ALA:O	2.12	0.50
1:P:114:LEU:CG	1:P:156:ALA:HB1	2.38	0.50
1:P:155:LYS:HG3	1:P:156:ALA:N	2.26	0.50
1:P:259:GLU:O	1:P:263:LYS:HG3	2.11	0.50
1:P:315:CYS:SG	1:P:316:GLU:N	2.85	0.50
1:A:164:LEU:HD12	1:A:313:THR:O	2.11	0.50
1:B:83:ASN:N	1:B:84:LEU:HB3	2.26	0.50
1:C:27:LYS:NZ	1:C:35:ARG:NH2	2.59	0.50
1:C:99:ASP:HA	1:C:145:TYR:CE1	2.47	0.50
1:C:133:ASN:ND2	1:C:148:GLU:HG3	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:182:LEU:O	1:C:182:LEU:HD23	2.12	0.50
1:D:10:MET:SD	1:D:21:LEU:HD21	2.51	0.50
1:D:155:LYS:HG3	1:D:156:ALA:N	2.26	0.50
1:D:164:LEU:HD12	1:D:313:THR:O	2.11	0.50
1:E:59:ILE:HD11	1:E:95:THR:HG21	1.89	0.50
1:E:83:ASN:N	1:E:84:LEU:HB3	2.26	0.50
1:E:219:ASP:HB3	1:F:275:LYS:HZ2	1.77	0.50
1:E:261:PHE:CD2	1:E:292:LEU:HD21	2.47	0.50
1:F:119:ASN:OD1	1:I:120:ALA:N	2.44	0.50
1:G:68:ILE:HG13	1:G:68:ILE:O	2.11	0.50
1:G:198:GLU:N	1:J:203:GLU:HB2	2.26	0.50
1:G:319:TYR:O	1:G:323:VAL:HG13	2.10	0.50
1:H:21:LEU:O	1:H:35:ARG:HB3	2.11	0.50
1:H:95:THR:CB	1:H:136:ILE:HG21	2.42	0.50
1:I:99:ASP:HA	1:I:145:TYR:CE1	2.47	0.50
1:I:182:LEU:O	1:I:182:LEU:HD23	2.12	0.50
1:J:110:LEU:HD23	1:J:111:ALA:O	2.12	0.50
1:J:284:PHE:HE2	1:J:296:ILE:HG12	1.74	0.50
1:L:182:LEU:O	1:L:182:LEU:HD23	2.12	0.50
1:M:12:LEU:HD21	1:M:21:LEU:CD1	2.38	0.50
1:M:36:VAL:O	1:M:312:TRP:CH2	2.65	0.50
1:N:34:LYS:N	1:N:35:ARG:CB	2.72	0.50
1:N:43:TYR:CZ	1:N:70:GLU:CG	2.95	0.50
1:N:133:ASN:HD22	1:N:148:GLU:CA	2.11	0.50
1:O:114:LEU:CG	1:O:156:ALA:HB1	2.38	0.50
1:O:219:ASP:CG	1:O:224:ASN:HD22	2.15	0.50
1:P:32:ASP:C	1:P:34:LYS:HB2	2.31	0.50
1:P:182:LEU:HD23	1:P:182:LEU:O	2.12	0.50
1:A:33:ILE:C	1:A:312:TRP:CZ2	2.84	0.50
1:A:99:ASP:HA	1:A:145:TYR:CE1	2.47	0.50
1:B:22:ILE:HG22	1:B:312:TRP:CZ3	2.46	0.50
1:B:36:VAL:O	1:B:312:TRP:CH2	2.65	0.50
1:C:32:ASP:HB3	1:C:34:LYS:HD2	1.93	0.50
1:C:95:THR:CB	1:C:136:ILE:HG21	2.42	0.50
1:D:39:LYS:HG2	1:D:41:LYS:HG3	1.93	0.50
1:D:133:ASN:ND2	1:D:148:GLU:HG3	2.27	0.50
1:E:23:GLY:O	1:E:27:LYS:HG3	2.12	0.50
1:E:315:CYS:SG	1:E:316:GLU:N	2.85	0.50
1:E:321:VAL:O	1:E:325:LYS:HG2	2.11	0.50
1:F:22:ILE:HG22	1:F:312:TRP:CZ3	2.46	0.50
1:F:202:GLU:HG2	1:I:272:ARG:HB2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:208:ASP:HA	1:G:211:ILE:CG1	2.42	0.50
1:G:208:ASP:CA	1:G:211:ILE:HG12	2.42	0.50
1:G:219:ASP:C	1:H:277:ASP:CG	2.70	0.50
1:G:261:PHE:CD2	1:G:292:LEU:HD21	2.47	0.50
1:H:83:ASN:N	1:H:84:LEU:HB3	2.26	0.50
1:H:99:ASP:HA	1:H:145:TYR:CE1	2.47	0.50
1:H:264:ASP:OD1	1:K:267:LYS:O	2.29	0.50
1:I:36:VAL:O	1:I:312:TRP:CH2	2.65	0.50
1:I:277:ASP:HB2	1:J:219:ASP:CG	2.31	0.50
1:I:278:GLN:OE1	1:J:217:LEU:HD23	2.11	0.50
1:J:277:ASP:CG	1:K:219:ASP:C	2.70	0.50
1:J:315:CYS:SG	1:J:316:GLU:N	2.85	0.50
1:K:36:VAL:O	1:K:312:TRP:CH2	2.65	0.50
1:K:208:ASP:HA	1:K:211:ILE:CG1	2.42	0.50
1:L:52:ILE:HD12	1:P:248:THR:CA	2.40	0.50
1:L:208:ASP:HA	1:L:211:ILE:CG1	2.42	0.50
1:M:43:TYR:CZ	1:M:70:GLU:CG	2.95	0.50
1:M:153:THR:HG21	1:M:325:LYS:CD	2.41	0.50
1:M:208:ASP:CA	1:M:211:ILE:HG12	2.42	0.50
1:N:127:ARG:HA	1:N:130:ILE:HG12	1.92	0.50
1:N:186:PHE:HE2	1:N:269:ILE:HD11	1.70	0.50
1:N:219:ASP:CG	1:N:224:ASN:HD22	2.15	0.50
1:O:133:ASN:ND2	1:O:148:GLU:HG3	2.27	0.50
1:P:39:LYS:HG2	1:P:41:LYS:HG3	1.93	0.50
1:A:37:ILE:HG13	1:A:312:TRP:HZ2	1.65	0.49
1:A:208:ASP:C	1:A:211:ILE:HG12	2.33	0.49
1:B:219:ASP:CG	1:B:224:ASN:HD22	2.15	0.49
1:B:245:GLU:HB3	1:F:74:GLU:O	2.11	0.49
1:B:315:CYS:SG	1:B:316:GLU:N	2.85	0.49
1:C:7:GLU:OE1	1:C:326:TYR:CE1	2.66	0.49
1:C:261:PHE:CD2	1:C:292:LEU:HD21	2.47	0.49
1:D:43:TYR:CE2	1:D:67:LEU:CD1	2.91	0.49
1:D:315:CYS:SG	1:D:316:GLU:N	2.85	0.49
1:E:21:LEU:O	1:E:35:ARG:HB3	2.11	0.49
1:E:110:LEU:HD23	1:E:111:ALA:O	2.12	0.49
1:F:23:GLY:O	1:F:27:LYS:HG3	2.12	0.49
1:F:43:TYR:CZ	1:F:70:GLU:CG	2.95	0.49
1:F:68:ILE:O	1:F:68:ILE:HG13	2.11	0.49
1:F:155:LYS:HG3	1:F:156:ALA:N	2.26	0.49
1:F:219:ASP:C	1:G:277:ASP:CG	2.70	0.49
1:G:21:LEU:O	1:G:35:ARG:HB3	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:23:GLY:O	1:G:27:LYS:HG3	2.12	0.49
1:G:36:VAL:O	1:G:312:TRP:CH2	2.65	0.49
1:G:43:TYR:CZ	1:G:70:GLU:CG	2.95	0.49
1:G:50:ILE:HG22	1:H:323:VAL:HG11	0.50	0.49
1:H:43:TYR:CZ	1:H:70:GLU:CG	2.95	0.49
1:H:133:ASN:ND2	1:H:148:GLU:HG3	2.27	0.49
1:H:208:ASP:HA	1:H:211:ILE:CG1	2.42	0.49
1:H:271:LYS:C	1:K:204:HIS:CE1	2.83	0.49
1:I:95:THR:CB	1:I:136:ILE:HG21	2.42	0.49
1:I:275:LYS:HZ2	1:J:219:ASP:HB3	1.77	0.49
1:I:277:ASP:CG	1:J:219:ASP:C	2.70	0.49
1:J:36:VAL:O	1:J:312:TRP:CH2	2.65	0.49
1:K:27:LYS:NZ	1:K:35:ARG:NH2	2.59	0.49
1:K:110:LEU:HD23	1:K:111:ALA:O	2.12	0.49
1:L:36:VAL:O	1:L:312:TRP:CH2	2.65	0.49
1:L:261:PHE:CD2	1:L:292:LEU:HD21	2.47	0.49
1:M:133:ASN:ND2	1:M:148:GLU:HG3	2.27	0.49
1:M:322:ALA:C	1:N:47:ASP:C	2.62	0.49
1:N:83:ASN:N	1:N:84:LEU:HB3	2.26	0.49
1:N:85:ILE:HG23	1:N:86:HIS:N	2.28	0.49
1:N:208:ASP:C	1:N:211:ILE:HG12	2.33	0.49
1:N:261:PHE:CD2	1:N:292:LEU:HD21	2.47	0.49
1:O:164:LEU:HD12	1:O:313:THR:O	2.11	0.49
1:P:22:ILE:HG22	1:P:35:ARG:CB	2.35	0.49
1:P:43:TYR:CZ	1:P:70:GLU:CG	2.95	0.49
1:P:133:ASN:ND2	1:P:148:GLU:HG3	2.27	0.49
1:P:261:PHE:CD2	1:P:292:LEU:HD21	2.48	0.49
1:A:36:VAL:N	1:A:312:TRP:CH2	2.80	0.49
1:A:43:TYR:CZ	1:A:70:GLU:CG	2.95	0.49
1:A:245:GLU:HB3	1:E:74:GLU:O	2.11	0.49
1:A:261:PHE:CD2	1:A:292:LEU:HD21	2.48	0.49
1:B:43:TYR:CZ	1:B:70:GLU:CG	2.95	0.49
1:C:36:VAL:O	1:C:312:TRP:CH2	2.65	0.49
1:C:43:TYR:CZ	1:C:70:GLU:CG	2.95	0.49
1:C:208:ASP:C	1:C:211:ILE:HG12	2.33	0.49
1:D:32:ASP:HB3	1:D:34:LYS:HD2	1.93	0.49
1:D:68:ILE:HG13	1:D:68:ILE:O	2.11	0.49
1:D:219:ASP:OD1	1:D:225:LEU:HG	2.11	0.49
1:D:256:LYS:HA	1:D:256:LYS:CE	2.28	0.49
1:E:50:ILE:CG2	1:F:323:VAL:CB	2.75	0.49
1:E:116:VAL:CG2	1:E:122:ALA:HB3	2.40	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:164:LEU:O	1:E:164:LEU:HD23	2.11	0.49
1:E:222:ASN:HD22	1:E:237:ASN:HB2	1.75	0.49
1:E:310:SER:HA	1:E:313:THR:CG2	2.41	0.49
1:F:21:LEU:O	1:F:35:ARG:HB3	2.11	0.49
1:F:33:ILE:C	1:F:312:TRP:CZ2	2.84	0.49
1:F:36:VAL:O	1:F:312:TRP:CH2	2.65	0.49
1:F:219:ASP:CB	1:G:275:LYS:HZ2	2.25	0.49
1:G:27:LYS:NZ	1:G:35:ARG:NH2	2.59	0.49
1:G:85:ILE:HG23	1:G:86:HIS:N	2.27	0.49
1:G:95:THR:CB	1:G:136:ILE:HG21	2.42	0.49
1:H:36:VAL:O	1:H:312:TRP:CH2	2.65	0.49
1:H:85:ILE:HG23	1:H:86:HIS:N	2.27	0.49
1:H:208:ASP:CA	1:H:211:ILE:HG12	2.42	0.49
1:I:68:ILE:O	1:I:68:ILE:HG13	2.11	0.49
1:I:275:LYS:HZ2	1:J:219:ASP:CB	2.24	0.49
1:I:323:VAL:HG11	1:J:50:ILE:HG22	0.50	0.49
1:L:110:LEU:HD22	1:L:126:TYR:CE2	2.47	0.49
1:L:321:VAL:O	1:L:325:LYS:HG2	2.11	0.49
1:M:83:ASN:N	1:M:84:LEU:HB3	2.26	0.49
1:M:85:ILE:HG23	1:M:86:HIS:N	2.28	0.49
1:M:186:PHE:HE2	1:M:269:ILE:HD11	1.70	0.49
1:N:7:GLU:OE1	1:N:326:TYR:CE1	2.66	0.49
1:N:22:ILE:HG22	1:N:312:TRP:CZ3	2.46	0.49
1:N:23:GLY:O	1:N:27:LYS:HG3	2.12	0.49
1:N:32:ASP:C	1:N:34:LYS:HB2	2.31	0.49
1:N:36:VAL:O	1:N:312:TRP:CH2	2.65	0.49
1:O:33:ILE:C	1:O:312:TRP:CZ2	2.84	0.49
1:O:110:LEU:HD23	1:O:111:ALA:O	2.12	0.49
1:P:22:ILE:HG22	1:P:312:TRP:CZ3	2.46	0.49
1:P:116:VAL:CG2	1:P:122:ALA:HB3	2.40	0.49
1:P:164:LEU:HD12	1:P:313:THR:O	2.11	0.49
1:A:22:ILE:CG2	1:A:312:TRP:CZ3	2.95	0.49
1:A:83:ASN:N	1:A:84:LEU:HB3	2.26	0.49
1:A:219:ASP:OD1	1:A:225:LEU:HG	2.11	0.49
1:A:243:GLY:N	1:F:165:GLU:N	2.55	0.49
1:B:36:VAL:N	1:B:312:TRP:CH2	2.80	0.49
1:B:133:ASN:HD22	1:B:148:GLU:CA	2.11	0.49
1:B:182:LEU:HD23	1:B:182:LEU:O	2.12	0.49
1:B:219:ASP:OD1	1:B:225:LEU:HG	2.11	0.49
1:C:219:ASP:OD1	1:C:225:LEU:HG	2.11	0.49
1:D:43:TYR:CZ	1:D:70:GLU:CG	2.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:208:ASP:CA	1:D:211:ILE:HG12	2.42	0.49
1:D:259:GLU:O	1:D:263:LYS:HG3	2.11	0.49
1:E:43:TYR:CZ	1:E:70:GLU:CG	2.95	0.49
1:E:99:ASP:HA	1:E:145:TYR:CE1	2.47	0.49
1:F:85:ILE:HG23	1:F:86:HIS:N	2.27	0.49
1:F:130:ILE:O	1:F:149:ILE:HD13	2.11	0.49
1:G:110:LEU:HD22	1:G:126:TYR:CE2	2.48	0.49
1:G:133:ASN:ND2	1:G:148:GLU:HG3	2.27	0.49
1:H:219:ASP:CG	1:H:224:ASN:HD22	2.15	0.49
1:I:208:ASP:C	1:I:211:ILE:HG12	2.33	0.49
1:I:219:ASP:CG	1:I:224:ASN:HD22	2.15	0.49
1:I:222:ASN:HD22	1:I:237:ASN:HB2	1.75	0.49
1:I:261:PHE:CD2	1:I:292:LEU:HD21	2.47	0.49
1:J:95:THR:CB	1:J:136:ILE:HG21	2.42	0.49
1:J:123:LYS:HZ3	1:J:127:ARG:NH1	2.08	0.49
1:J:261:PHE:CD2	1:J:292:LEU:HD21	2.47	0.49
1:J:262:LEU:HD21	1:J:292:LEU:HD23	1.95	0.49
1:J:323:VAL:HG11	1:K:50:ILE:HG22	0.49	0.49
1:K:34:LYS:N	1:K:35:ARG:CB	2.72	0.49
1:K:95:THR:CB	1:K:136:ILE:HG21	2.42	0.49
1:K:208:ASP:C	1:K:211:ILE:HG12	2.33	0.49
1:K:323:VAL:HG11	1:L:50:ILE:HG22	0.49	0.49
1:L:161:VAL:HG11	1:L:285:ILE:CD1	2.42	0.49
1:L:310:SER:HA	1:L:313:THR:CG2	2.42	0.49
1:M:27:LYS:NZ	1:M:35:ARG:NH2	2.59	0.49
1:M:95:THR:CB	1:M:136:ILE:HG21	2.42	0.49
1:M:321:VAL:O	1:M:325:LYS:HG2	2.11	0.49
1:O:7:GLU:OE1	1:O:326:TYR:CE1	2.66	0.49
1:O:83:ASN:N	1:O:84:LEU:HB3	2.26	0.49
1:O:85:ILE:HG23	1:O:86:HIS:N	2.27	0.49
1:P:36:VAL:O	1:P:312:TRP:CH2	2.65	0.49
1:P:83:ASN:N	1:P:84:LEU:HB3	2.26	0.49
1:P:208:ASP:C	1:P:211:ILE:HG12	2.33	0.49
1:A:36:VAL:O	1:A:312:TRP:CH2	2.66	0.49
1:B:37:ILE:HG13	1:B:312:TRP:HZ2	1.65	0.49
1:B:99:ASP:HA	1:B:145:TYR:CE1	2.47	0.49
1:B:208:ASP:C	1:B:211:ILE:HG12	2.33	0.49
1:C:164:LEU:HD23	1:C:164:LEU:O	2.11	0.49
1:C:230:GLN:HB3	1:H:306:ILE:CG2	2.30	0.49
1:C:241:LYS:C	1:H:165:GLU:OE2	2.51	0.49
1:D:22:ILE:CG2	1:D:312:TRP:CZ3	2.96	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:110:LEU:HD23	1:D:111:ALA:O	2.12	0.49
1:D:116:VAL:CG2	1:D:122:ALA:HB3	2.40	0.49
1:E:50:ILE:HG22	1:F:323:VAL:CB	2.33	0.49
1:E:85:ILE:HG23	1:E:86:HIS:N	2.27	0.49
1:E:110:LEU:HD22	1:E:126:TYR:CE2	2.47	0.49
1:E:219:ASP:CG	1:E:224:ASN:HD22	2.15	0.49
1:E:262:LEU:HD21	1:E:292:LEU:HD23	1.95	0.49
1:F:50:ILE:HG22	1:G:323:VAL:HG11	0.49	0.49
1:F:95:THR:CB	1:F:136:ILE:HG21	2.42	0.49
1:F:222:ASN:HD22	1:F:237:ASN:HB2	1.75	0.49
1:H:37:ILE:CD1	1:H:312:TRP:CE2	2.96	0.49
1:H:110:LEU:HD22	1:H:126:TYR:CE2	2.48	0.49
1:I:116:VAL:CG2	1:I:122:ALA:HB3	2.40	0.49
1:I:315:CYS:SG	1:I:316:GLU:N	2.85	0.49
1:J:52:ILE:CG2	1:N:248:THR:HA	2.25	0.49
1:J:110:LEU:HD22	1:J:126:TYR:CE2	2.48	0.49
1:K:110:LEU:HD22	1:K:126:TYR:CE2	2.48	0.49
1:K:261:PHE:CD2	1:K:292:LEU:HD21	2.47	0.49
1:L:22:ILE:CG2	1:L:312:TRP:CZ3	2.96	0.49
1:L:95:THR:CB	1:L:136:ILE:HG21	2.42	0.49
1:M:23:GLY:O	1:M:27:LYS:HG3	2.12	0.49
1:M:208:ASP:HA	1:M:211:ILE:CG1	2.42	0.49
1:N:161:VAL:HG11	1:N:285:ILE:CD1	2.41	0.49
1:N:208:ASP:CA	1:N:211:ILE:HG12	2.42	0.49
1:O:22:ILE:HG22	1:O:312:TRP:CZ3	2.46	0.49
1:O:179:PHE:HB2	1:O:288:THR:HB	1.93	0.49
1:O:186:PHE:HE2	1:O:269:ILE:HD11	1.70	0.49
1:O:315:CYS:SG	1:O:316:GLU:N	2.85	0.49
1:P:7:GLU:OE1	1:P:326:TYR:CE1	2.66	0.49
1:P:110:LEU:HD22	1:P:126:TYR:CE2	2.48	0.49
1:P:219:ASP:CG	1:P:224:ASN:HD22	2.15	0.49
1:A:7:GLU:OE1	1:A:326:TYR:CE1	2.66	0.49
1:A:219:ASP:CG	1:A:224:ASN:HD22	2.15	0.49
1:A:230:GLN:C	1:F:308:ASN:CG	2.71	0.49
1:A:247:ASP:OD2	1:F:320:LYS:NZ	2.46	0.49
1:B:22:ILE:CG2	1:B:312:TRP:CZ3	2.95	0.49
1:B:43:TYR:CE2	1:B:67:LEU:CD1	2.91	0.49
1:B:95:THR:CB	1:B:136:ILE:HG21	2.42	0.49
1:C:36:VAL:N	1:C:312:TRP:CH2	2.80	0.49
1:D:208:ASP:C	1:D:211:ILE:HG12	2.33	0.49
1:E:36:VAL:O	1:E:312:TRP:CH2	2.65	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:50:ILE:HG22	1:F:323:VAL:HG11	0.49	0.49
1:E:68:ILE:HG13	1:E:68:ILE:O	2.11	0.49
1:E:219:ASP:CB	1:F:275:LYS:HZ2	2.25	0.49
1:F:110:LEU:HD22	1:F:126:TYR:CE2	2.48	0.49
1:F:116:VAL:CG2	1:F:122:ALA:HB3	2.40	0.49
1:F:219:ASP:HB3	1:G:275:LYS:HZ2	1.77	0.49
1:F:272:ARG:CD	1:I:202:GLU:HA	2.04	0.49
1:G:130:ILE:O	1:G:149:ILE:HD13	2.11	0.49
1:G:208:ASP:C	1:G:211:ILE:HG12	2.33	0.49
1:G:272:ARG:HG3	1:J:203:GLU:H	0.71	0.49
1:I:23:GLY:O	1:I:27:LYS:HG3	2.12	0.49
1:I:324:ALA:CA	1:J:46:GLU:HG3	2.39	0.49
1:J:116:VAL:CG2	1:J:122:ALA:HB3	2.40	0.49
1:K:117:LEU:CD1	1:K:156:ALA:N	2.76	0.49
1:K:164:LEU:O	1:P:243:GLY:N	2.46	0.49
1:L:7:GLU:OE1	1:L:326:TYR:CE1	2.65	0.49
1:L:219:ASP:CG	1:L:224:ASN:HD22	2.15	0.49
1:M:7:GLU:OE1	1:M:326:TYR:CE1	2.65	0.49
1:O:39:LYS:HG2	1:O:41:LYS:HG3	1.93	0.49
1:P:85:ILE:HG23	1:P:86:HIS:N	2.28	0.49
1:A:164:LEU:HD23	1:A:164:LEU:C	2.33	0.49
1:B:7:GLU:OE1	1:B:326:TYR:CE1	2.66	0.49
1:B:110:LEU:HD23	1:B:111:ALA:O	2.12	0.49
1:B:261:PHE:CD2	1:B:292:LEU:HD21	2.47	0.49
1:C:110:LEU:HD23	1:C:111:ALA:O	2.12	0.49
1:C:243:GLY:N	1:H:164:LEU:C	2.64	0.49
1:D:36:VAL:O	1:D:312:TRP:CH2	2.65	0.49
1:E:95:THR:CB	1:E:136:ILE:HG21	2.42	0.49
1:E:117:LEU:CD1	1:E:156:ALA:N	2.76	0.49
1:E:184:MET:HG2	1:E:202:GLU:OE1	2.13	0.49
1:F:164:LEU:C	1:F:164:LEU:HD23	2.33	0.49
1:F:184:MET:HG2	1:F:202:GLU:OE1	2.13	0.49
1:G:43:TYR:CE2	1:G:67:LEU:CD1	2.91	0.49
1:G:117:LEU:CD1	1:G:156:ALA:N	2.76	0.49
1:G:184:MET:HG2	1:G:202:GLU:OE1	2.13	0.49
1:H:23:GLY:O	1:H:27:LYS:HG3	2.12	0.49
1:H:208:ASP:C	1:H:211:ILE:HG12	2.33	0.49
1:I:22:ILE:CG2	1:I:312:TRP:CZ3	2.96	0.49
1:I:117:LEU:CD1	1:I:156:ALA:N	2.76	0.49
1:I:310:SER:HA	1:I:313:THR:CG2	2.42	0.49
1:J:85:ILE:HG23	1:J:86:HIS:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:164:LEU:C	1:J:164:LEU:HD23	2.33	0.49
1:K:119:ASN:CG	1:K:120:ALA:H	2.09	0.49
1:K:164:LEU:C	1:K:164:LEU:HD23	2.33	0.49
1:K:275:LYS:CB	1:L:218:THR:C	2.78	0.49
1:L:23:GLY:O	1:L:27:LYS:HG3	2.12	0.49
1:L:164:LEU:HD23	1:L:164:LEU:C	2.33	0.49
1:M:99:ASP:HA	1:M:145:TYR:CE1	2.47	0.49
1:M:261:PHE:CD2	1:M:292:LEU:HD21	2.47	0.49
1:M:315:CYS:SG	1:M:316:GLU:N	2.85	0.49
1:N:95:THR:CB	1:N:136:ILE:HG21	2.42	0.49
1:N:110:LEU:HD22	1:N:126:TYR:CE2	2.48	0.49
1:N:133:ASN:ND2	1:N:148:GLU:HG3	2.27	0.49
1:N:208:ASP:HA	1:N:211:ILE:CG1	2.42	0.49
1:O:22:ILE:HG22	1:O:35:ARG:CB	2.35	0.49
1:P:164:LEU:HD23	1:P:164:LEU:C	2.33	0.49
1:C:72:GLY:O	1:D:167:GLU:N	2.46	0.49
1:C:79:THR:HG21	1:D:169:PHE:CE2	2.48	0.49
1:C:85:ILE:HG23	1:C:86:HIS:N	2.28	0.49
1:C:110:LEU:HD22	1:C:126:TYR:CE2	2.48	0.49
1:C:258:LYS:NZ	1:C:295:GLN:CG	2.76	0.49
1:D:110:LEU:HD22	1:D:126:TYR:CE2	2.48	0.49
1:D:246:ILE:CA	1:H:52:ILE:HG12	2.38	0.49
1:E:22:ILE:CG2	1:E:312:TRP:CZ3	2.96	0.49
1:E:37:ILE:CD1	1:E:312:TRP:CE2	2.96	0.49
1:E:208:ASP:C	1:E:211:ILE:HG12	2.33	0.49
1:E:311:GLN:HG3	1:E:312:TRP:CD1	2.48	0.49
1:F:27:LYS:HZ1	1:F:35:ARG:HE	1.59	0.49
1:F:43:TYR:CE2	1:F:67:LEU:CD1	2.91	0.49
1:F:208:ASP:HA	1:F:211:ILE:CG1	2.42	0.49
1:F:208:ASP:CA	1:F:211:ILE:HG12	2.42	0.49
1:F:262:LEU:HD21	1:F:292:LEU:HD23	1.95	0.49
1:G:22:ILE:HD12	1:G:27:LYS:HZ1	1.78	0.49
1:G:111:ALA:HB1	1:G:157:GLU:HA	1.95	0.49
1:G:184:MET:HE1	1:G:265:ALA:HB2	1.94	0.49
1:G:222:ASN:HD22	1:G:237:ASN:HB2	1.75	0.49
1:G:311:GLN:HG3	1:G:312:TRP:CD1	2.48	0.49
1:H:27:LYS:NZ	1:H:35:ARG:NH2	2.59	0.49
1:I:110:LEU:HD22	1:I:126:TYR:CE2	2.48	0.49
1:I:164:LEU:O	1:N:243:GLY:N	2.45	0.49
1:I:208:ASP:CA	1:I:211:ILE:HG12	2.42	0.49
1:J:22:ILE:CG2	1:J:312:TRP:CZ3	2.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:37:ILE:CD1	1:J:312:TRP:CE2	2.96	0.49
1:J:258:LYS:NZ	1:J:295:GLN:CG	2.76	0.49
1:J:305:ILE:HG22	1:O:241:LYS:HZ3	1.76	0.49
1:J:324:ALA:CA	1:K:46:GLU:HG3	2.39	0.49
1:K:22:ILE:CG2	1:K:312:TRP:CZ3	2.96	0.49
1:K:37:ILE:CD1	1:K:312:TRP:CE2	2.96	0.49
1:K:116:VAL:CG2	1:K:122:ALA:HB3	2.40	0.49
1:K:258:LYS:NZ	1:K:295:GLN:CG	2.76	0.49
1:L:208:ASP:C	1:L:211:ILE:HG12	2.33	0.49
1:L:284:PHE:HE2	1:L:296:ILE:HG12	1.74	0.49
1:M:74:GLU:OE1	1:M:75:ASP:HB2	2.13	0.49
1:N:22:ILE:HG22	1:N:35:ARG:CB	2.35	0.49
1:N:27:LYS:NZ	1:N:35:ARG:NH2	2.59	0.49
1:O:74:GLU:OE1	1:O:75:ASP:HB2	2.13	0.49
1:O:99:ASP:HA	1:O:145:TYR:CE1	2.47	0.49
1:P:74:GLU:OE1	1:P:75:ASP:HB2	2.13	0.49
1:A:23:GLY:O	1:A:27:LYS:HG3	2.12	0.49
1:A:72:GLY:O	1:B:167:GLU:N	2.46	0.49
1:A:110:LEU:HD23	1:A:111:ALA:O	2.12	0.49
1:A:177:ILE:HD11	1:A:284:PHE:CD1	2.47	0.49
1:A:182:LEU:O	1:A:182:LEU:HD23	2.12	0.49
1:B:23:GLY:O	1:B:27:LYS:HG3	2.12	0.49
1:B:72:GLY:O	1:C:167:GLU:N	2.46	0.49
1:B:79:THR:HG21	1:C:169:PHE:CE2	2.48	0.49
1:B:117:LEU:CD1	1:B:156:ALA:N	2.76	0.49
1:C:43:TYR:CE2	1:C:67:LEU:CD1	2.91	0.49
1:D:36:VAL:N	1:D:312:TRP:CH2	2.80	0.49
1:D:114:LEU:HD23	1:D:194:VAL:HG21	1.95	0.49
1:D:117:LEU:CD1	1:D:156:ALA:N	2.76	0.49
1:D:258:LYS:NZ	1:D:295:GLN:CG	2.76	0.49
1:E:165:GLU:OE1	1:E:167:GLU:HB2	2.13	0.49
1:E:182:LEU:HD23	1:E:182:LEU:O	2.12	0.49
1:E:208:ASP:CA	1:E:211:ILE:HG12	2.42	0.49
1:E:219:ASP:HB3	1:F:275:LYS:NZ	2.27	0.49
1:F:184:MET:HE1	1:F:265:ALA:HB2	1.94	0.49
1:F:321:VAL:O	1:F:325:LYS:HG2	2.11	0.49
1:G:114:LEU:HD23	1:G:194:VAL:HG21	1.95	0.49
1:G:258:LYS:NZ	1:G:295:GLN:CG	2.76	0.49
1:H:22:ILE:CG2	1:H:312:TRP:CZ3	2.95	0.49
1:H:164:LEU:HD23	1:H:164:LEU:C	2.33	0.49
1:H:184:MET:HG2	1:H:202:GLU:OE1	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:43:TYR:CZ	1:I:70:GLU:CG	2.95	0.49
1:I:262:LEU:HD21	1:I:292:LEU:HD23	1.95	0.49
1:J:43:TYR:CZ	1:J:70:GLU:CG	2.95	0.49
1:J:208:ASP:CA	1:J:211:ILE:HG12	2.42	0.49
1:J:241:LYS:HB2	1:N:308:ASN:HD21	1.78	0.49
1:K:7:GLU:OE1	1:K:326:TYR:CE1	2.66	0.49
1:K:262:LEU:HD21	1:K:292:LEU:HD23	1.95	0.49
1:K:275:LYS:HZ2	1:L:219:ASP:CG	2.14	0.49
1:K:324:ALA:CA	1:L:46:GLU:HG3	2.39	0.49
1:M:110:LEU:HD23	1:M:111:ALA:O	2.12	0.49
1:M:320:LYS:NZ	1:N:50:ILE:CG1	2.72	0.49
1:N:74:GLU:OE1	1:N:75:ASP:HB2	2.13	0.49
1:O:36:VAL:O	1:O:312:TRP:CH2	2.65	0.49
1:O:164:LEU:HD23	1:O:164:LEU:C	2.33	0.49
1:O:208:ASP:C	1:O:211:ILE:HG12	2.33	0.49
1:P:36:VAL:N	1:P:312:TRP:CH2	2.80	0.49
1:P:177:ILE:HD11	1:P:284:PHE:CD1	2.47	0.49
1:B:110:LEU:HD22	1:B:126:TYR:CE2	2.48	0.49
1:C:116:VAL:CG2	1:C:122:ALA:HB3	2.40	0.49
1:C:117:LEU:CD1	1:C:156:ALA:N	2.76	0.49
1:D:37:ILE:CD1	1:D:312:TRP:CE2	2.96	0.49
1:D:85:ILE:HG23	1:D:86:HIS:N	2.27	0.49
1:D:250:SER:HB2	1:D:254:ILE:HG23	1.95	0.49
1:E:19:THR:CG2	1:E:40:THR:HG22	2.36	0.49
1:E:133:ASN:ND2	1:E:148:GLU:HG3	2.27	0.49
1:E:164:LEU:HD23	1:E:164:LEU:C	2.33	0.49
1:E:218:THR:C	1:F:275:LYS:CB	2.78	0.49
1:F:202:GLU:CA	1:I:272:ARG:HB2	2.33	0.49
1:F:208:ASP:C	1:F:211:ILE:HG12	2.33	0.49
1:G:95:THR:HG22	1:G:136:ILE:CD1	2.24	0.49
1:G:116:VAL:CG2	1:G:122:ALA:HB3	2.40	0.49
1:G:197:SER:CB	1:J:183:ASN:OD1	2.61	0.49
1:H:182:LEU:HD23	1:H:182:LEU:O	2.12	0.49
1:H:222:ASN:HD22	1:H:237:ASN:HB2	1.75	0.49
1:I:22:ILE:HD11	1:I:319:TYR:HB2	1.95	0.49
1:I:284:PHE:HE2	1:I:296:ILE:HG12	1.74	0.49
1:I:311:GLN:HG3	1:I:312:TRP:CD1	2.48	0.49
1:J:208:ASP:HA	1:J:211:ILE:CG1	2.42	0.49
1:J:208:ASP:C	1:J:211:ILE:HG12	2.33	0.49
1:K:219:ASP:CB	1:K:224:ASN:ND2	2.65	0.49
1:K:311:GLN:HG3	1:K:312:TRP:CD1	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:161:VAL:HG11	1:M:285:ILE:CD1	2.41	0.49
1:M:167:GLU:N	1:N:72:GLY:O	2.46	0.49
1:M:169:PHE:CE2	1:N:79:THR:HG21	2.48	0.49
1:N:311:GLN:HG3	1:N:312:TRP:CD1	2.48	0.49
1:O:23:GLY:O	1:O:27:LYS:HG3	2.12	0.49
1:O:105:LYS:HZ3	1:O:148:GLU:CB	2.26	0.49
1:O:208:ASP:HA	1:O:211:ILE:CG1	2.42	0.49
1:P:58:LYS:HZ2	1:P:65:GLU:CG	2.25	0.49
1:P:95:THR:CB	1:P:136:ILE:HG21	2.42	0.49
1:A:79:THR:HG21	1:B:169:PHE:CE2	2.48	0.49
1:A:85:ILE:HG23	1:A:86:HIS:N	2.27	0.49
1:A:110:LEU:HD22	1:A:126:TYR:CE2	2.48	0.49
1:A:184:MET:HG2	1:A:202:GLU:OE1	2.13	0.49
1:B:47:ASP:O	1:C:323:VAL:HG13	2.13	0.49
1:B:85:ILE:HG23	1:B:86:HIS:N	2.27	0.49
1:B:164:LEU:HD23	1:B:164:LEU:C	2.33	0.49
1:C:22:ILE:CG2	1:C:312:TRP:CZ3	2.95	0.49
1:C:37:ILE:HG13	1:C:312:TRP:HZ2	1.65	0.49
1:C:217:LEU:HD23	1:C:217:LEU:C	2.34	0.49
1:C:232:GLU:CA	1:H:308:ASN:ND2	2.67	0.49
1:C:250:SER:HB2	1:C:254:ILE:HG23	1.95	0.49
1:D:27:LYS:NZ	1:D:35:ARG:NH2	2.59	0.49
1:D:177:ILE:HD11	1:D:284:PHE:CD1	2.47	0.49
1:E:111:ALA:HB1	1:E:157:GLU:HA	1.95	0.49
1:F:61:LEU:HD23	1:F:62:ASP:N	2.28	0.49
1:F:111:ALA:HB1	1:F:157:GLU:HA	1.95	0.49
1:G:43:TYR:HH	1:G:56:SER:HG	1.58	0.49
1:G:49:TYR:HB2	1:H:321:VAL:CA	2.28	0.49
1:G:164:LEU:C	1:G:164:LEU:HD23	2.33	0.49
1:G:219:ASP:H	1:H:277:ASP:C	2.16	0.49
1:G:272:ARG:CB	1:J:202:GLU:HG2	2.43	0.49
1:G:310:SER:HA	1:G:313:THR:CG2	2.42	0.49
1:G:321:VAL:O	1:G:325:LYS:HG2	2.11	0.49
1:H:7:GLU:OE1	1:H:326:TYR:CE1	2.66	0.49
1:H:120:ALA:N	1:K:119:ASN:OD1	2.46	0.49
1:H:165:GLU:OE1	1:H:167:GLU:HB2	2.13	0.49
1:H:258:LYS:NZ	1:H:295:GLN:CG	2.76	0.49
1:H:311:GLN:HG3	1:H:312:TRP:CD1	2.48	0.49
1:I:258:LYS:NZ	1:I:295:GLN:CG	2.76	0.49
1:J:277:ASP:C	1:K:219:ASP:H	2.16	0.49
1:K:85:ILE:HG23	1:K:86:HIS:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:219:ASP:CG	1:K:224:ASN:HD22	2.15	0.49
1:K:305:ILE:HB	1:P:241:LYS:HD3	1.94	0.49
1:K:323:VAL:C	1:L:47:ASP:CA	2.71	0.49
1:L:116:VAL:CG2	1:L:122:ALA:HB3	2.40	0.49
1:L:208:ASP:CA	1:L:211:ILE:HG12	2.42	0.49
1:L:258:LYS:NZ	1:L:295:GLN:CG	2.76	0.49
1:M:22:ILE:HG22	1:M:35:ARG:CB	2.35	0.49
1:M:219:ASP:CG	1:M:224:ASN:HD22	2.15	0.49
1:N:22:ILE:CG2	1:N:312:TRP:CZ3	2.96	0.49
1:N:110:LEU:HD23	1:N:111:ALA:O	2.12	0.49
1:N:164:LEU:HD23	1:N:164:LEU:C	2.33	0.49
1:O:22:ILE:CG2	1:O:312:TRP:CZ3	2.96	0.49
1:O:37:ILE:CD1	1:O:312:TRP:CE2	2.96	0.49
1:O:43:TYR:CZ	1:O:70:GLU:CG	2.95	0.49
1:O:110:LEU:HD22	1:O:126:TYR:CE2	2.48	0.49
1:O:173:ASN:ND2	1:O:279:LEU:CD2	2.70	0.49
1:P:22:ILE:CG2	1:P:312:TRP:CZ3	2.95	0.49
1:P:23:GLY:O	1:P:27:LYS:HG3	2.12	0.49
1:P:161:VAL:HG11	1:P:285:ILE:CD1	2.41	0.49
1:A:47:ASP:O	1:B:323:VAL:CA	2.48	0.48
1:A:47:ASP:O	1:B:323:VAL:HG13	2.13	0.48
1:A:95:THR:CB	1:A:136:ILE:HG21	2.42	0.48
1:A:250:SER:HB2	1:A:254:ILE:HG23	1.95	0.48
1:B:177:ILE:HD11	1:B:284:PHE:CD1	2.47	0.48
1:B:250:SER:HB2	1:B:254:ILE:HG23	1.95	0.48
1:C:47:ASP:O	1:D:323:VAL:HG13	2.13	0.48
1:D:217:LEU:HD23	1:D:217:LEU:C	2.34	0.48
1:E:22:ILE:HD11	1:E:319:TYR:HB2	1.95	0.48
1:E:43:TYR:HH	1:E:56:SER:HG	1.57	0.48
1:F:27:LYS:NZ	1:F:35:ARG:NH2	2.59	0.48
1:F:117:LEU:CD1	1:F:156:ALA:N	2.76	0.48
1:F:258:LYS:NZ	1:F:295:GLN:CG	2.76	0.48
1:F:261:PHE:CD2	1:F:292:LEU:HD21	2.47	0.48
1:G:7:GLU:OE1	1:G:326:TYR:CE1	2.65	0.48
1:G:37:ILE:CD1	1:G:312:TRP:CE2	2.96	0.48
1:G:49:TYR:C	1:H:323:VAL:CA	2.53	0.48
1:H:22:ILE:HD11	1:H:319:TYR:HB2	1.95	0.48
1:H:34:LYS:N	1:H:35:ARG:CB	2.72	0.48
1:H:110:LEU:HD23	1:H:111:ALA:O	2.12	0.48
1:H:111:ALA:HB1	1:H:157:GLU:HA	1.95	0.48
1:H:267:LYS:O	1:K:264:ASP:OD1	2.30	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:284:PHE:HE2	1:H:296:ILE:HG12	1.74	0.48
1:I:37:ILE:CD1	1:I:312:TRP:CE2	2.96	0.48
1:I:52:ILE:HA	1:M:248:THR:HG22	1.95	0.48
1:I:85:ILE:HG23	1:I:86:HIS:N	2.28	0.48
1:I:164:LEU:C	1:I:164:LEU:HD23	2.33	0.48
1:J:117:LEU:CD1	1:J:156:ALA:N	2.76	0.48
1:J:164:LEU:O	1:O:243:GLY:N	2.46	0.48
1:L:117:LEU:CD1	1:L:156:ALA:N	2.76	0.48
1:L:184:MET:HG2	1:L:202:GLU:OE1	2.13	0.48
1:M:34:LYS:N	1:M:35:ARG:CB	2.72	0.48
1:M:208:ASP:C	1:M:211:ILE:HG12	2.33	0.48
1:M:250:SER:HB2	1:M:254:ILE:HG23	1.95	0.48
1:M:256:LYS:HA	1:M:256:LYS:CE	2.28	0.48
1:M:258:LYS:NZ	1:M:295:GLN:CG	2.76	0.48
1:M:311:GLN:HG3	1:M:312:TRP:CD1	2.48	0.48
1:N:58:LYS:HZ2	1:N:65:GLU:CG	2.26	0.48
1:N:117:LEU:CD1	1:N:156:ALA:N	2.76	0.48
1:O:22:ILE:HD11	1:O:319:TYR:HB2	1.95	0.48
1:O:58:LYS:HZ2	1:O:65:GLU:HG2	1.75	0.48
1:O:95:THR:CB	1:O:136:ILE:HG21	2.42	0.48
1:O:311:GLN:HG3	1:O:312:TRP:CD1	2.48	0.48
1:P:61:LEU:HD23	1:P:62:ASP:N	2.29	0.48
1:A:117:LEU:CD1	1:A:156:ALA:N	2.76	0.48
1:A:248:THR:CG2	1:E:52:ILE:CD1	2.89	0.48
1:B:37:ILE:CD1	1:B:312:TRP:CE2	2.96	0.48
1:B:184:MET:HG2	1:B:202:GLU:OE1	2.13	0.48
1:B:217:LEU:HD23	1:B:217:LEU:C	2.34	0.48
1:C:34:LYS:N	1:C:35:ARG:CB	2.72	0.48
1:C:114:LEU:HD23	1:C:194:VAL:HG21	1.95	0.48
1:C:242:LYS:HG3	1:H:166:GLN:OE1	2.13	0.48
1:C:252:THR:HG21	1:G:53:GLU:HG3	1.95	0.48
1:D:7:GLU:OE1	1:D:326:TYR:CE1	2.66	0.48
1:D:22:ILE:HG22	1:D:35:ARG:CB	2.35	0.48
1:D:262:LEU:HD21	1:D:292:LEU:HD23	1.95	0.48
1:E:114:LEU:HD23	1:E:194:VAL:HG21	1.95	0.48
1:E:284:PHE:HE2	1:E:296:ILE:HG12	1.74	0.48
1:F:37:ILE:CD1	1:F:312:TRP:CE2	2.96	0.48
1:F:74:GLU:OE1	1:F:75:ASP:HB2	2.13	0.48
1:F:165:GLU:OE1	1:F:167:GLU:HB2	2.13	0.48
1:F:182:LEU:O	1:F:182:LEU:HD23	2.12	0.48
1:F:197:SER:CB	1:I:183:ASN:CG	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:22:ILE:CG2	1:G:312:TRP:CZ3	2.96	0.48
1:G:98:LEU:HD23	1:G:98:LEU:O	2.14	0.48
1:G:182:LEU:O	1:G:182:LEU:HD23	2.12	0.48
1:G:198:GLU:CG	1:J:203:GLU:CD	2.80	0.48
1:H:261:PHE:CD2	1:H:292:LEU:HD21	2.47	0.48
1:H:321:VAL:O	1:H:325:LYS:HG2	2.11	0.48
1:I:61:LEU:HD23	1:I:62:ASP:N	2.28	0.48
1:I:111:ALA:HB1	1:I:157:GLU:HA	1.95	0.48
1:I:177:ILE:HD11	1:I:284:PHE:CD1	2.47	0.48
1:J:7:GLU:OE1	1:J:326:TYR:CE1	2.65	0.48
1:J:74:GLU:OE1	1:J:75:ASP:HB2	2.13	0.48
1:J:74:GLU:CA	1:N:245:GLU:O	2.58	0.48
1:K:22:ILE:HD11	1:K:319:TYR:HB2	1.95	0.48
1:K:23:GLY:O	1:K:27:LYS:HG3	2.12	0.48
1:K:99:ASP:HA	1:K:145:TYR:CE1	2.47	0.48
1:K:165:GLU:OE1	1:K:167:GLU:HB2	2.13	0.48
1:L:85:ILE:HG23	1:L:86:HIS:N	2.28	0.48
1:L:250:SER:HB2	1:L:254:ILE:HG23	1.95	0.48
1:M:37:ILE:CD1	1:M:312:TRP:CE2	2.96	0.48
1:N:37:ILE:CD1	1:N:312:TRP:CE2	2.96	0.48
1:N:167:GLU:N	1:O:72:GLY:O	2.46	0.48
1:N:250:SER:HB2	1:N:254:ILE:HG23	1.95	0.48
1:O:110:LEU:CA	1:O:318:LEU:HD13	2.36	0.48
1:O:161:VAL:HG11	1:O:285:ILE:CD1	2.41	0.48
1:O:208:ASP:CA	1:O:211:ILE:HG12	2.42	0.48
1:O:261:PHE:CD2	1:O:292:LEU:HD21	2.47	0.48
1:P:22:ILE:HD11	1:P:319:TYR:HB2	1.95	0.48
1:P:98:LEU:HD23	1:P:98:LEU:O	2.14	0.48
1:A:43:TYR:CE2	1:A:67:LEU:CD1	2.91	0.48
1:A:74:GLU:OE1	1:A:75:ASP:HB2	2.13	0.48
1:A:98:LEU:O	1:A:98:LEU:HD23	2.14	0.48
1:C:23:GLY:O	1:C:27:LYS:HG3	2.12	0.48
1:C:50:ILE:HG23	1:D:320:LYS:HG3	1.95	0.48
1:C:246:ILE:CD1	1:H:323:VAL:HG13	2.42	0.48
1:C:262:LEU:HD21	1:C:292:LEU:HD23	1.95	0.48
1:D:261:PHE:CD2	1:D:292:LEU:HD21	2.47	0.48
1:F:22:ILE:HD11	1:F:319:TYR:HB2	1.95	0.48
1:F:177:ILE:HD11	1:F:284:PHE:CD1	2.47	0.48
1:F:272:ARG:NH1	1:I:201:ILE:HG23	2.28	0.48
1:F:311:GLN:HG3	1:F:312:TRP:CD1	2.48	0.48
1:G:177:ILE:HD11	1:G:284:PHE:CD1	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:116:VAL:CG2	1:H:122:ALA:HB3	2.40	0.48
1:H:177:ILE:HD11	1:H:284:PHE:CD1	2.48	0.48
1:J:23:GLY:O	1:J:27:LYS:HG3	2.12	0.48
1:J:111:ALA:HB1	1:J:157:GLU:HA	1.95	0.48
1:J:184:MET:HG2	1:J:202:GLU:OE1	2.13	0.48
1:J:311:GLN:HG3	1:J:312:TRP:CD1	2.48	0.48
1:K:184:MET:HG2	1:K:202:GLU:OE1	2.13	0.48
1:K:305:ILE:CG2	1:P:241:LYS:CE	2.91	0.48
1:L:37:ILE:CD1	1:L:312:TRP:CE2	2.96	0.48
1:L:43:TYR:CZ	1:L:70:GLU:CG	2.95	0.48
1:M:110:LEU:HD22	1:M:126:TYR:CE2	2.48	0.48
1:M:117:LEU:CD1	1:M:156:ALA:N	2.76	0.48
1:M:164:LEU:HD23	1:M:164:LEU:C	2.33	0.48
1:M:217:LEU:HD23	1:M:217:LEU:C	2.34	0.48
1:N:184:MET:HG2	1:N:202:GLU:OE1	2.13	0.48
1:O:36:VAL:N	1:O:312:TRP:CH2	2.80	0.48
1:O:250:SER:HB2	1:O:254:ILE:HG23	1.95	0.48
1:P:208:ASP:HA	1:P:211:ILE:CG1	2.42	0.48
1:P:250:SER:HB2	1:P:254:ILE:HG23	1.95	0.48
1:P:311:GLN:HG3	1:P:312:TRP:CD1	2.48	0.48
1:B:98:LEU:HD23	1:B:98:LEU:O	2.14	0.48
1:E:58:LYS:HZ2	1:E:65:GLU:HG2	1.78	0.48
1:E:74:GLU:OE1	1:E:75:ASP:HB2	2.13	0.48
1:F:22:ILE:CG2	1:F:312:TRP:CZ3	2.96	0.48
1:F:98:LEU:O	1:F:98:LEU:HD23	2.13	0.48
1:F:127:ARG:HG2	1:F:154:ILE:CD1	2.44	0.48
1:G:74:GLU:OE1	1:G:75:ASP:HB2	2.13	0.48
1:G:219:ASP:CG	1:H:277:ASP:HB2	2.31	0.48
1:G:262:LEU:HD21	1:G:292:LEU:HD23	1.95	0.48
1:G:267:LYS:O	1:J:264:ASP:OD1	2.30	0.48
1:H:43:TYR:CE2	1:H:67:LEU:CD1	2.91	0.48
1:I:74:GLU:OE1	1:I:75:ASP:HB2	2.13	0.48
1:I:184:MET:HG2	1:I:202:GLU:OE1	2.13	0.48
1:J:61:LEU:HD23	1:J:62:ASP:N	2.28	0.48
1:J:275:LYS:CB	1:K:218:THR:C	2.78	0.48
1:K:43:TYR:CZ	1:K:70:GLU:CG	2.95	0.48
1:K:277:ASP:HB2	1:L:219:ASP:CG	2.32	0.48
1:K:307:THR:C	1:P:230:GLN:CB	2.61	0.48
1:K:309:ASN:C	1:P:229:GLU:OE2	2.40	0.48
1:L:22:ILE:HD11	1:L:319:TYR:HB2	1.95	0.48
1:L:34:LYS:N	1:L:35:ARG:CB	2.72	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:222:ASN:CB	1:L:237:ASN:CB	2.90	0.48
1:L:311:GLN:HG3	1:L:312:TRP:CD1	2.48	0.48
1:M:22:ILE:CG2	1:M:312:TRP:CZ3	2.95	0.48
1:M:177:ILE:HD11	1:M:284:PHE:CD1	2.47	0.48
1:M:184:MET:HG2	1:M:202:GLU:OE1	2.13	0.48
1:N:258:LYS:NZ	1:N:295:GLN:CG	2.76	0.48
1:N:320:LYS:HG3	1:O:50:ILE:HG23	1.95	0.48
1:O:61:LEU:HD23	1:O:62:ASP:N	2.29	0.48
1:O:177:ILE:HD11	1:O:284:PHE:CD1	2.48	0.48
1:P:165:GLU:OE1	1:P:167:GLU:HB2	2.13	0.48
1:P:184:MET:HG2	1:P:202:GLU:OE1	2.13	0.48
1:A:217:LEU:HD23	1:A:217:LEU:C	2.34	0.48
1:B:127:ARG:HG2	1:B:154:ILE:CD1	2.44	0.48
1:B:165:GLU:OE1	1:B:167:GLU:HB2	2.13	0.48
1:B:245:GLU:O	1:F:74:GLU:CA	2.60	0.48
1:B:258:LYS:NZ	1:B:295:GLN:CG	2.76	0.48
1:C:164:LEU:HD23	1:C:164:LEU:C	2.33	0.48
1:C:165:GLU:OE1	1:C:167:GLU:HB2	2.13	0.48
1:C:177:ILE:HD11	1:C:284:PHE:CD1	2.47	0.48
1:C:245:GLU:CG	1:G:75:ASP:N	2.76	0.48
1:E:61:LEU:HD23	1:E:62:ASP:N	2.29	0.48
1:F:7:GLU:OE1	1:F:326:TYR:CE1	2.66	0.48
1:F:186:PHE:HE2	1:F:269:ILE:HD11	1.70	0.48
1:F:196:PRO:O	1:I:201:ILE:HG21	2.13	0.48
1:G:61:LEU:HD23	1:G:62:ASP:N	2.28	0.48
1:H:98:LEU:O	1:H:98:LEU:HD23	2.14	0.48
1:H:127:ARG:HG2	1:H:154:ILE:CD1	2.44	0.48
1:H:262:LEU:HD21	1:H:292:LEU:HD23	1.95	0.48
1:J:22:ILE:HD11	1:J:319:TYR:HB2	1.95	0.48
1:J:114:LEU:HD23	1:J:194:VAL:HG21	1.95	0.48
1:J:256:LYS:HA	1:J:256:LYS:CE	2.28	0.48
1:K:114:LEU:HD23	1:K:194:VAL:HG21	1.95	0.48
1:K:245:GLU:HG2	1:P:52:ILE:CD1	2.43	0.48
1:L:177:ILE:HD11	1:L:284:PHE:CD1	2.47	0.48
1:M:114:LEU:HD23	1:M:194:VAL:HG21	1.95	0.48
1:M:127:ARG:HG2	1:M:154:ILE:CD1	2.44	0.48
1:N:127:ARG:HG2	1:N:154:ILE:CD1	2.44	0.48
1:N:169:PHE:CE2	1:O:79:THR:HG21	2.48	0.48
1:O:184:MET:HG2	1:O:202:GLU:OE1	2.13	0.48
1:P:37:ILE:CD1	1:P:312:TRP:CE2	2.96	0.48
1:P:208:ASP:CA	1:P:211:ILE:HG12	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:37:ILE:CD1	1:A:312:TRP:CE2	2.96	0.48
1:A:258:LYS:NZ	1:A:295:GLN:CG	2.76	0.48
1:A:262:LEU:HD21	1:A:292:LEU:HD23	1.95	0.48
1:A:311:GLN:HG3	1:A:312:TRP:CD1	2.48	0.48
1:B:50:ILE:HG23	1:C:320:LYS:HG3	1.95	0.48
1:B:116:VAL:CG2	1:B:122:ALA:HB3	2.40	0.48
1:B:220:LEU:C	1:B:221:ASN:O	2.52	0.48
1:B:262:LEU:HD21	1:B:292:LEU:HD23	1.95	0.48
1:C:116:VAL:CG2	1:C:121:LYS:HZ2	2.26	0.48
1:C:184:MET:HG2	1:C:202:GLU:OE1	2.13	0.48
1:D:23:GLY:O	1:D:27:LYS:HG3	2.12	0.48
1:D:127:ARG:HG2	1:D:154:ILE:CD1	2.44	0.48
1:D:164:LEU:HD23	1:D:164:LEU:C	2.33	0.48
1:D:208:ASP:HA	1:D:211:ILE:CG1	2.42	0.48
1:H:271:LYS:CG	1:K:202:GLU:CG	2.78	0.48
1:J:127:ARG:HG2	1:J:154:ILE:CD1	2.44	0.48
1:K:61:LEU:HD23	1:K:62:ASP:N	2.28	0.48
1:K:74:GLU:OE1	1:K:75:ASP:HB2	2.13	0.48
1:K:217:LEU:HD23	1:K:217:LEU:C	2.34	0.48
1:K:277:ASP:C	1:L:219:ASP:H	2.16	0.48
1:L:165:GLU:OE1	1:L:167:GLU:HB2	2.13	0.48
1:M:165:GLU:OE1	1:M:167:GLU:HB2	2.13	0.48
1:N:217:LEU:HD23	1:N:217:LEU:C	2.34	0.48
1:O:98:LEU:HD23	1:O:98:LEU:O	2.14	0.48
1:O:167:GLU:N	1:P:72:GLY:O	2.46	0.48
1:O:320:LYS:HG3	1:P:50:ILE:HG23	1.95	0.48
1:P:114:LEU:HD23	1:P:194:VAL:HG21	1.95	0.48
1:P:217:LEU:HD23	1:P:217:LEU:C	2.34	0.48
1:A:49:TYR:CE1	1:B:320:LYS:NZ	2.74	0.48
1:A:231:ALA:CA	1:F:308:ASN:HD22	2.27	0.48
1:B:283:ILE:N	1:B:283:ILE:HD12	2.29	0.48
1:C:98:LEU:O	1:C:98:LEU:HD23	2.14	0.48
1:C:186:PHE:HE2	1:C:269:ILE:HD11	1.70	0.48
1:D:98:LEU:O	1:D:98:LEU:HD23	2.13	0.48
1:D:276:LEU:HD12	1:D:300:TYR:CE2	2.49	0.48
1:E:7:GLU:OE1	1:E:326:TYR:CE1	2.66	0.48
1:E:177:ILE:HD11	1:E:284:PHE:CD1	2.47	0.48
1:F:114:LEU:HD23	1:F:194:VAL:HG21	1.95	0.48
1:G:264:ASP:OD1	1:J:267:LYS:O	2.30	0.48
1:H:272:ARG:HB2	1:K:202:GLU:HG2	1.95	0.48
1:I:165:GLU:OE1	1:I:167:GLU:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:321:VAL:O	1:I:325:LYS:HG2	2.11	0.48
1:J:98:LEU:HD23	1:J:98:LEU:O	2.14	0.48
1:J:165:GLU:OE1	1:J:167:GLU:HB2	2.13	0.48
1:J:222:ASN:CB	1:J:237:ASN:CB	2.90	0.48
1:K:50:ILE:CG2	1:O:246:ILE:HD12	2.04	0.48
1:K:98:LEU:O	1:K:98:LEU:HD23	2.13	0.48
1:K:111:ALA:HB1	1:K:157:GLU:HA	1.95	0.48
1:K:127:ARG:HG2	1:K:154:ILE:CD1	2.44	0.48
1:K:177:ILE:HD11	1:K:284:PHE:CD1	2.48	0.48
1:L:173:ASN:ND2	1:L:279:LEU:CD2	2.70	0.48
1:L:262:LEU:HD21	1:L:292:LEU:HD23	1.95	0.48
1:N:177:ILE:HD11	1:N:284:PHE:CD1	2.47	0.48
1:N:220:LEU:C	1:N:221:ASN:O	2.52	0.48
1:O:27:LYS:NZ	1:O:35:ARG:NH2	2.59	0.48
1:P:117:LEU:CD1	1:P:156:ALA:N	2.76	0.48
1:A:49:TYR:C	1:B:320:LYS:CG	2.21	0.48
1:A:50:ILE:HG23	1:B:320:LYS:HG3	1.95	0.48
1:A:61:LEU:HD23	1:A:62:ASP:N	2.29	0.48
1:A:186:PHE:HE2	1:A:269:ILE:HD11	1.70	0.48
1:A:208:ASP:HA	1:A:211:ILE:CG1	2.42	0.48
1:A:283:ILE:HD12	1:A:283:ILE:N	2.29	0.48
1:B:186:PHE:HE2	1:B:269:ILE:HD11	1.70	0.48
1:C:127:ARG:HG2	1:C:154:ILE:CD1	2.44	0.48
1:C:208:ASP:HA	1:C:211:ILE:CG1	2.42	0.48
1:C:220:LEU:C	1:C:221:ASN:O	2.52	0.48
1:C:256:LYS:HA	1:C:256:LYS:CE	2.28	0.48
1:F:219:ASP:H	1:G:277:ASP:C	2.16	0.48
1:G:22:ILE:HD11	1:G:319:TYR:HB2	1.95	0.48
1:H:117:LEU:CD1	1:H:156:ALA:N	2.76	0.48
1:J:177:ILE:HD11	1:J:284:PHE:CD1	2.48	0.48
1:J:217:LEU:HD23	1:J:217:LEU:C	2.34	0.48
1:K:208:ASP:CA	1:K:211:ILE:HG12	2.42	0.48
1:L:58:LYS:HZ2	1:L:65:GLU:HG2	1.77	0.48
1:L:61:LEU:HD23	1:L:62:ASP:N	2.29	0.48
1:L:98:LEU:O	1:L:98:LEU:HD23	2.14	0.48
1:L:111:ALA:HB1	1:L:157:GLU:HA	1.95	0.48
1:L:217:LEU:HD23	1:L:217:LEU:C	2.34	0.48
1:M:110:LEU:CA	1:M:318:LEU:HD13	2.36	0.48
1:M:133:ASN:HD22	1:M:148:GLU:CA	2.11	0.48
1:M:220:LEU:C	1:M:221:ASN:O	2.52	0.48
1:M:276:LEU:HD12	1:M:300:TYR:CE2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:36:VAL:N	1:N:312:TRP:CH2	2.80	0.48
1:O:127:ARG:HG2	1:O:154:ILE:CD1	2.44	0.48
1:O:169:PHE:CE2	1:P:79:THR:HG21	2.48	0.48
1:O:262:LEU:HD21	1:O:292:LEU:HD23	1.95	0.48
1:A:246:ILE:HG13	1:E:49:TYR:CD1	2.48	0.48
1:B:11:THR:HG23	1:B:318:LEU:CB	2.44	0.48
1:B:114:LEU:HD23	1:B:194:VAL:HG21	1.95	0.48
1:B:165:GLU:CD	1:B:167:GLU:HB2	2.34	0.48
1:C:276:LEU:HD12	1:C:300:TYR:CE2	2.49	0.48
1:D:74:GLU:OE1	1:D:75:ASP:HB2	2.13	0.48
1:D:186:PHE:HE2	1:D:269:ILE:HD11	1.70	0.48
1:E:32:ASP:CA	1:E:34:LYS:HB2	2.44	0.48
1:E:217:LEU:HD23	1:E:217:LEU:C	2.34	0.48
1:E:258:LYS:NZ	1:E:295:GLN:CG	2.76	0.48
1:F:32:ASP:CA	1:F:34:LYS:HB2	2.44	0.48
1:F:218:THR:C	1:G:275:LYS:CB	2.78	0.48
1:G:33:ILE:HB	1:G:312:TRP:CD1	2.49	0.48
1:H:33:ILE:HB	1:H:312:TRP:CD1	2.49	0.48
1:H:306:ILE:HD12	1:H:307:THR:N	2.29	0.48
1:I:7:GLU:OE1	1:I:326:TYR:CE1	2.65	0.48
1:I:33:ILE:HB	1:I:312:TRP:CD1	2.49	0.48
1:I:98:LEU:O	1:I:98:LEU:HD23	2.14	0.48
1:I:127:ARG:HG2	1:I:154:ILE:CD1	2.44	0.48
1:I:217:LEU:HD23	1:I:217:LEU:C	2.34	0.48
1:J:33:ILE:HB	1:J:312:TRP:CD1	2.49	0.48
1:J:164:LEU:HD13	1:J:313:THR:CA	2.40	0.48
1:K:219:ASP:CA	1:K:224:ASN:HB2	1.80	0.48
1:K:275:LYS:NZ	1:L:219:ASP:HB3	2.27	0.48
1:K:284:PHE:HE2	1:K:296:ILE:HG12	1.74	0.48
1:L:34:LYS:H	1:L:35:ARG:HB2	1.78	0.48
1:L:127:ARG:HG2	1:L:154:ILE:CD1	2.44	0.48
1:M:58:LYS:HZ2	1:M:65:GLU:HG2	1.76	0.48
1:M:320:LYS:HG3	1:N:50:ILE:HG23	1.96	0.48
1:N:22:ILE:HD11	1:N:319:TYR:HB2	1.95	0.48
1:N:45:LEU:CD2	1:N:58:LYS:HZ3	2.26	0.48
1:N:61:LEU:HD23	1:N:62:ASP:N	2.29	0.48
1:N:110:LEU:CA	1:N:318:LEU:HD13	2.36	0.48
1:O:111:ALA:HB1	1:O:157:GLU:HA	1.95	0.48
1:O:117:LEU:CD1	1:O:156:ALA:N	2.76	0.48
1:O:220:LEU:C	1:O:221:ASN:O	2.52	0.48
1:P:27:LYS:NZ	1:P:35:ARG:NH2	2.59	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:258:LYS:NZ	1:P:295:GLN:CG	2.76	0.48
1:A:114:LEU:HD23	1:A:194:VAL:HG21	1.95	0.48
1:A:127:ARG:HG2	1:A:154:ILE:CD1	2.44	0.48
1:A:220:LEU:C	1:A:221:ASN:O	2.52	0.48
1:A:229:GLU:OE2	1:F:312:TRP:HB2	2.14	0.48
1:B:74:GLU:OE1	1:B:75:ASP:HB2	2.13	0.48
1:B:208:ASP:HA	1:B:211:ILE:CG1	2.42	0.48
1:B:284:PHE:HE2	1:B:296:ILE:HG12	1.74	0.48
1:B:311:GLN:HG3	1:B:312:TRP:CD1	2.48	0.48
1:C:37:ILE:CD1	1:C:312:TRP:CE2	2.96	0.48
1:C:283:ILE:HD12	1:C:283:ILE:N	2.29	0.48
1:C:311:GLN:HG3	1:C:312:TRP:CD1	2.48	0.48
1:D:19:THR:CG2	1:D:40:THR:HG22	2.36	0.48
1:D:61:LEU:HD23	1:D:62:ASP:N	2.29	0.48
1:D:165:GLU:OE1	1:D:167:GLU:HB2	2.13	0.48
1:D:184:MET:HG2	1:D:202:GLU:OE1	2.13	0.48
1:F:19:THR:CG2	1:F:40:THR:HG22	2.36	0.48
1:F:49:TYR:CB	1:G:324:ALA:HB3	2.38	0.48
1:F:165:GLU:CD	1:F:167:GLU:HB2	2.34	0.48
1:G:165:GLU:OE1	1:G:167:GLU:HB2	2.13	0.48
1:H:43:TYR:HH	1:H:56:SER:HG	1.59	0.48
1:H:74:GLU:OE1	1:H:75:ASP:HB2	2.13	0.48
1:H:220:LEU:C	1:H:221:ASN:O	2.52	0.48
1:I:52:ILE:HD12	1:M:248:THR:N	2.20	0.48
1:I:114:LEU:HD23	1:I:194:VAL:HG21	1.95	0.48
1:I:165:GLU:CD	1:I:167:GLU:HB2	2.34	0.48
1:I:250:SER:HB2	1:I:254:ILE:HG23	1.95	0.48
1:K:220:LEU:O	1:K:235:LEU:N	2.47	0.48
1:K:306:ILE:HD12	1:K:307:THR:N	2.29	0.48
1:K:321:VAL:O	1:K:325:LYS:HG2	2.11	0.48
1:K:324:ALA:HB3	1:L:49:TYR:CB	2.38	0.48
1:L:165:GLU:CD	1:L:167:GLU:HB2	2.34	0.48
1:M:323:VAL:HG13	1:N:47:ASP:O	2.13	0.48
1:N:32:ASP:CA	1:N:34:LYS:HB2	2.44	0.48
1:N:114:LEU:HD23	1:N:194:VAL:HG21	1.95	0.48
1:N:276:LEU:HD12	1:N:300:TYR:CE2	2.49	0.48
1:O:127:ARG:CG	1:O:154:ILE:HD12	2.44	0.48
1:O:165:GLU:CD	1:O:167:GLU:HB2	2.34	0.48
1:O:217:LEU:HD23	1:O:217:LEU:C	2.34	0.48
1:P:32:ASP:CA	1:P:34:LYS:HB2	2.44	0.48
1:P:111:ALA:HB1	1:P:157:GLU:HA	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:127:ARG:CG	1:P:154:ILE:HD12	2.44	0.48
1:B:61:LEU:HD23	1:B:62:ASP:N	2.29	0.47
1:B:246:ILE:HD12	1:F:50:ILE:HG12	1.93	0.47
1:C:32:ASP:CA	1:C:34:LYS:HB2	2.44	0.47
1:C:61:LEU:HD23	1:C:62:ASP:N	2.28	0.47
1:D:33:ILE:HB	1:D:312:TRP:CD1	2.49	0.47
1:D:165:GLU:CD	1:D:167:GLU:HB2	2.34	0.47
1:F:7:GLU:C	1:F:326:TYR:CE1	2.87	0.47
1:F:217:LEU:HD23	1:F:217:LEU:C	2.34	0.47
1:G:32:ASP:CA	1:G:34:LYS:HB2	2.44	0.47
1:G:227:THR:CG2	1:H:300:TYR:N	2.62	0.47
1:G:306:ILE:HD12	1:G:307:THR:N	2.29	0.47
1:H:197:SER:CB	1:K:183:ASN:OD1	2.62	0.47
1:H:217:LEU:HD23	1:H:217:LEU:C	2.34	0.47
1:I:220:LEU:C	1:I:221:ASN:O	2.52	0.47
1:J:219:ASP:CG	1:J:224:ASN:HD22	2.15	0.47
1:J:283:ILE:N	1:J:283:ILE:HD12	2.29	0.47
1:J:306:ILE:HD12	1:J:307:THR:N	2.29	0.47
1:K:250:SER:HB2	1:K:254:ILE:HG23	1.95	0.47
1:K:283:ILE:HD12	1:K:283:ILE:N	2.29	0.47
1:L:50:ILE:HD12	1:P:246:ILE:C	2.33	0.47
1:L:306:ILE:HD12	1:L:307:THR:N	2.29	0.47
1:M:32:ASP:CA	1:M:34:LYS:HB2	2.44	0.47
1:M:127:ARG:CG	1:M:154:ILE:HD12	2.44	0.47
1:M:262:LEU:HD21	1:M:292:LEU:HD23	1.95	0.47
1:N:98:LEU:O	1:N:98:LEU:HD23	2.14	0.47
1:N:111:ALA:HB1	1:N:157:GLU:HA	1.95	0.47
1:N:127:ARG:CG	1:N:154:ILE:HD12	2.44	0.47
1:N:173:ASN:ND2	1:N:279:LEU:CD2	2.70	0.47
1:N:284:PHE:HE2	1:N:296:ILE:HG12	1.74	0.47
1:P:127:ARG:HG2	1:P:154:ILE:CD1	2.44	0.47
1:A:222:ASN:CB	1:A:237:ASN:CB	2.90	0.47
1:B:50:ILE:CG1	1:C:320:LYS:NZ	2.72	0.47
1:C:76:SER:O	1:D:169:PHE:CE2	2.67	0.47
1:C:173:ASN:ND2	1:C:279:LEU:CD2	2.70	0.47
1:C:213:VAL:HG13	1:C:253:VAL:CG1	2.45	0.47
1:D:32:ASP:CA	1:D:34:LYS:HB2	2.44	0.47
1:D:310:SER:HA	1:D:313:THR:CG2	2.42	0.47
1:D:311:GLN:HG3	1:D:312:TRP:CD1	2.48	0.47
1:E:98:LEU:HD23	1:E:98:LEU:O	2.13	0.47
1:E:127:ARG:HG2	1:E:154:ILE:CD1	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:33:ILE:HB	1:F:312:TRP:CD1	2.49	0.47
1:F:179:PHE:HB2	1:F:288:THR:HB	1.93	0.47
1:F:206:VAL:HB	1:F:288:THR:OG1	2.14	0.47
1:H:45:LEU:CD2	1:H:58:LYS:HZ3	2.27	0.47
1:H:114:LEU:HD23	1:H:194:VAL:HG21	1.95	0.47
1:H:165:GLU:CD	1:H:167:GLU:HB2	2.34	0.47
1:H:206:VAL:HB	1:H:288:THR:OG1	2.14	0.47
1:H:250:SER:HB2	1:H:254:ILE:HG23	1.95	0.47
1:I:166:GLN:CA	1:N:242:LYS:O	2.48	0.47
1:J:34:LYS:H	1:J:35:ARG:HB2	1.78	0.47
1:J:206:VAL:HB	1:J:288:THR:OG1	2.14	0.47
1:J:213:VAL:HG13	1:J:253:VAL:CG1	2.45	0.47
1:J:321:VAL:O	1:J:325:LYS:HG2	2.11	0.47
1:K:34:LYS:H	1:K:35:ARG:HB2	1.79	0.47
1:L:74:GLU:OE1	1:L:75:ASP:HB2	2.13	0.47
1:L:213:VAL:HG13	1:L:253:VAL:CG1	2.45	0.47
1:L:220:LEU:O	1:L:235:LEU:N	2.47	0.47
1:M:33:ILE:HB	1:M:312:TRP:CD1	2.49	0.47
1:M:165:GLU:CD	1:M:167:GLU:HB2	2.34	0.47
1:N:323:VAL:HG13	1:O:47:ASP:O	2.13	0.47
1:O:11:THR:HG23	1:O:318:LEU:CB	2.44	0.47
1:O:32:ASP:CA	1:O:34:LYS:HB2	2.44	0.47
1:P:33:ILE:HB	1:P:312:TRP:CD1	2.49	0.47
1:P:110:LEU:CA	1:P:318:LEU:HD13	2.36	0.47
1:A:116:VAL:CG2	1:A:122:ALA:HB3	2.40	0.47
1:A:227:THR:HG23	1:B:301:PRO:N	2.29	0.47
1:A:241:LYS:HE2	1:F:305:ILE:HG21	1.96	0.47
1:C:74:GLU:OE1	1:C:75:ASP:HB2	2.13	0.47
1:D:220:LEU:C	1:D:221:ASN:O	2.52	0.47
1:E:84:LEU:O	1:E:88:LEU:HG	2.14	0.47
1:E:283:ILE:HD12	1:E:283:ILE:N	2.29	0.47
1:G:217:LEU:HD23	1:G:217:LEU:C	2.34	0.47
1:G:220:LEU:C	1:G:221:ASN:O	2.52	0.47
1:H:32:ASP:CA	1:H:34:LYS:HB2	2.44	0.47
1:I:52:ILE:HG13	1:M:245:GLU:O	2.09	0.47
1:I:213:VAL:HG13	1:I:253:VAL:CG1	2.44	0.47
1:I:283:ILE:HD12	1:I:283:ILE:N	2.29	0.47
1:J:165:GLU:CD	1:J:167:GLU:HB2	2.34	0.47
1:J:220:LEU:C	1:J:221:ASN:O	2.52	0.47
1:L:75:ASP:OD1	1:P:245:GLU:OE1	2.32	0.47
1:L:283:ILE:N	1:L:283:ILE:HD12	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:43:TYR:CE2	1:M:67:LEU:CD1	2.91	0.47
1:M:222:ASN:CB	1:M:237:ASN:CB	2.90	0.47
1:M:283:ILE:N	1:M:283:ILE:HD12	2.29	0.47
1:N:33:ILE:HB	1:N:312:TRP:CD1	2.49	0.47
1:O:33:ILE:HB	1:O:312:TRP:CD1	2.49	0.47
1:O:149:ILE:HD13	1:O:149:ILE:HG21	1.74	0.47
1:O:258:LYS:NZ	1:O:295:GLN:CG	2.76	0.47
1:O:323:VAL:HG13	1:P:47:ASP:O	2.13	0.47
1:A:32:ASP:CA	1:A:34:LYS:HB2	2.44	0.47
1:A:39:LYS:HE2	1:A:41:LYS:HD2	1.97	0.47
1:A:84:LEU:O	1:A:88:LEU:HG	2.14	0.47
1:A:213:VAL:HG13	1:A:253:VAL:CG1	2.45	0.47
1:A:310:SER:HA	1:A:313:THR:CG2	2.42	0.47
1:B:32:ASP:CA	1:B:34:LYS:HB2	2.44	0.47
1:B:241:LYS:HB3	1:G:165:GLU:HG2	1.97	0.47
1:C:27:LYS:HE2	1:C:35:ARG:CG	2.34	0.47
1:C:33:ILE:HB	1:C:312:TRP:CD1	2.49	0.47
1:C:39:LYS:HE2	1:C:41:LYS:HD2	1.97	0.47
1:C:133:ASN:HD22	1:C:148:GLU:CA	2.11	0.47
1:C:206:VAL:HB	1:C:288:THR:OG1	2.14	0.47
1:D:213:VAL:HG13	1:D:253:VAL:CG1	2.44	0.47
1:E:213:VAL:HG13	1:E:253:VAL:CG1	2.44	0.47
1:E:219:ASP:N	1:F:278:GLN:N	2.53	0.47
1:F:84:LEU:O	1:F:88:LEU:HG	2.14	0.47
1:F:306:ILE:HD12	1:F:307:THR:N	2.29	0.47
1:G:202:GLU:HG2	1:J:272:ARG:CB	2.43	0.47
1:G:250:SER:HB2	1:G:254:ILE:HG23	1.95	0.47
1:H:61:LEU:HD23	1:H:62:ASP:N	2.28	0.47
1:H:197:SER:OG	1:K:183:ASN:OD1	2.24	0.47
1:I:34:LYS:H	1:I:35:ARG:HB2	1.78	0.47
1:I:324:ALA:N	1:J:48:GLY:N	2.63	0.47
1:K:33:ILE:HB	1:K:312:TRP:CD1	2.49	0.47
1:K:58:LYS:HZ2	1:K:65:GLU:HG2	1.78	0.47
1:K:206:VAL:HB	1:K:288:THR:OG1	2.14	0.47
1:K:276:LEU:HD12	1:K:300:TYR:CE2	2.49	0.47
1:M:36:VAL:N	1:M:312:TRP:CH2	2.80	0.47
1:M:111:ALA:HB1	1:M:157:GLU:HA	1.95	0.47
1:N:165:GLU:OE1	1:N:167:GLU:HB2	2.13	0.47
1:N:262:LEU:HD21	1:N:292:LEU:HD23	1.95	0.47
1:O:283:ILE:N	1:O:283:ILE:HD12	2.29	0.47
1:P:179:PHE:HB2	1:P:288:THR:HB	1.93	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:220:LEU:C	1:P:221:ASN:O	2.52	0.47
1:P:283:ILE:HD12	1:P:283:ILE:N	2.29	0.47
1:A:22:ILE:HG22	1:A:35:ARG:CB	2.35	0.47
1:A:22:ILE:HD11	1:A:319:TYR:HB2	1.95	0.47
1:A:165:GLU:OE1	1:A:167:GLU:HB2	2.13	0.47
1:A:241:LYS:HB3	1:F:165:GLU:OE2	2.14	0.47
1:B:43:TYR:CZ	1:B:67:LEU:CB	2.87	0.47
1:B:76:SER:O	1:C:169:PHE:CE2	2.67	0.47
1:B:127:ARG:CG	1:B:154:ILE:HD12	2.44	0.47
1:B:222:ASN:CB	1:B:237:ASN:CB	2.90	0.47
1:B:246:ILE:CD1	1:F:50:ILE:HG12	2.05	0.47
1:C:49:TYR:C	1:D:320:LYS:CG	2.21	0.47
1:C:112:CYS:HG	1:C:122:ALA:HB1	1.77	0.47
1:C:230:GLN:HA	1:H:308:ASN:OD1	2.14	0.47
1:D:127:ARG:CG	1:D:154:ILE:HD12	2.44	0.47
1:D:283:ILE:N	1:D:283:ILE:HD12	2.29	0.47
1:E:165:GLU:CD	1:E:167:GLU:HB2	2.34	0.47
1:F:250:SER:HB2	1:F:254:ILE:HG23	1.95	0.47
1:F:268:LEU:HD12	1:I:268:LEU:HD12	1.05	0.47
1:F:276:LEU:HD12	1:F:300:TYR:CE2	2.49	0.47
1:G:206:VAL:HB	1:G:288:THR:OG1	2.14	0.47
1:G:219:ASP:HB3	1:H:275:LYS:NZ	2.27	0.47
1:H:7:GLU:C	1:H:326:TYR:CE1	2.87	0.47
1:H:183:ASN:ND2	1:K:197:SER:CA	2.77	0.47
1:J:220:LEU:O	1:J:235:LEU:N	2.47	0.47
1:J:275:LYS:HZ1	1:K:224:ASN:HD21	1.58	0.47
1:J:276:LEU:HD12	1:J:300:TYR:CE2	2.49	0.47
1:J:278:GLN:N	1:K:219:ASP:N	2.53	0.47
1:K:165:GLU:CD	1:K:167:GLU:HB2	2.34	0.47
1:L:19:THR:CG2	1:L:40:THR:HG22	2.36	0.47
1:L:36:VAL:N	1:L:312:TRP:CH2	2.80	0.47
1:L:276:LEU:HD12	1:L:300:TYR:CE2	2.49	0.47
1:N:283:ILE:HD12	1:N:283:ILE:N	2.29	0.47
1:O:114:LEU:HD23	1:O:194:VAL:HG21	1.95	0.47
1:P:149:ILE:HD13	1:P:149:ILE:HG21	1.74	0.47
1:P:165:GLU:CD	1:P:167:GLU:HB2	2.34	0.47
1:A:127:ARG:CG	1:A:154:ILE:HD12	2.44	0.47
1:A:151:ASP:C	1:A:151:ASP:OD1	2.53	0.47
1:B:84:LEU:O	1:B:88:LEU:HG	2.14	0.47
1:B:151:ASP:C	1:B:151:ASP:OD1	2.53	0.47
1:B:242:LYS:HA	1:G:164:LEU:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:310:SER:HA	1:B:313:THR:CG2	2.42	0.47
1:C:19:THR:CG2	1:C:40:THR:HG22	2.36	0.47
1:C:84:LEU:O	1:C:88:LEU:HG	2.14	0.47
1:C:127:ARG:CG	1:C:154:ILE:HD12	2.44	0.47
1:C:220:LEU:O	1:C:235:LEU:N	2.47	0.47
1:D:22:ILE:HD11	1:D:319:TYR:HB2	1.95	0.47
1:D:43:TYR:CZ	1:D:67:LEU:CB	2.87	0.47
1:E:33:ILE:HB	1:E:312:TRP:CD1	2.49	0.47
1:F:36:VAL:N	1:F:312:TRP:CH2	2.80	0.47
1:F:95:THR:HG22	1:F:136:ILE:CD1	2.24	0.47
1:F:272:ARG:HG3	1:I:202:GLU:HA	1.57	0.47
1:F:283:ILE:HD12	1:F:283:ILE:N	2.29	0.47
1:G:127:ARG:HG2	1:G:154:ILE:CD1	2.44	0.47
1:G:276:LEU:HD12	1:G:300:TYR:CE2	2.49	0.47
1:H:127:ARG:CG	1:H:154:ILE:HD12	2.44	0.47
1:I:206:VAL:HB	1:I:288:THR:OG1	2.14	0.47
1:I:324:ALA:HB3	1:J:49:TYR:CB	2.38	0.47
1:J:165:GLU:OE2	1:O:241:LYS:CB	2.61	0.47
1:K:66:TYR:CE2	1:K:88:LEU:HD22	2.50	0.47
1:K:220:LEU:C	1:K:221:ASN:O	2.52	0.47
1:L:33:ILE:HB	1:L:312:TRP:CD1	2.49	0.47
1:L:114:LEU:HD23	1:L:194:VAL:HG21	1.95	0.47
1:L:127:ARG:CG	1:L:154:ILE:HD12	2.44	0.47
1:L:206:VAL:HB	1:L:288:THR:OG1	2.14	0.47
1:M:61:LEU:HD23	1:M:62:ASP:N	2.29	0.47
1:N:165:GLU:CD	1:N:167:GLU:HB2	2.34	0.47
1:N:256:LYS:HA	1:N:256:LYS:CE	2.28	0.47
1:O:43:TYR:HE2	1:O:67:LEU:HD13	1.77	0.47
1:O:206:VAL:HB	1:O:288:THR:OG1	2.14	0.47
1:P:262:LEU:HD21	1:P:292:LEU:HD23	1.95	0.47
1:A:33:ILE:HB	1:A:312:TRP:CD1	2.49	0.47
1:A:231:ALA:C	1:F:308:ASN:ND2	2.65	0.47
1:B:33:ILE:HB	1:B:312:TRP:CD1	2.49	0.47
1:B:184:MET:HE2	1:B:186:PHE:CE1	2.50	0.47
1:B:206:VAL:HB	1:B:288:THR:OG1	2.14	0.47
1:B:213:VAL:HG13	1:B:253:VAL:CG1	2.44	0.47
1:B:220:LEU:O	1:B:235:LEU:N	2.47	0.47
1:B:231:ALA:N	1:G:308:ASN:HD21	1.80	0.47
1:C:151:ASP:C	1:C:151:ASP:OD1	2.53	0.47
1:D:11:THR:HG23	1:D:318:LEU:CB	2.44	0.47
1:D:179:PHE:HB2	1:D:288:THR:HB	1.93	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:220:LEU:O	1:D:235:LEU:N	2.47	0.47
1:D:308:ASN:HD21	1:H:241:LYS:C	2.15	0.47
1:E:151:ASP:C	1:E:151:ASP:OD1	2.53	0.47
1:E:153:THR:HG21	1:E:325:LYS:HE3	1.97	0.47
1:E:206:VAL:HB	1:E:288:THR:OG1	2.14	0.47
1:E:276:LEU:HD12	1:E:300:TYR:CE2	2.49	0.47
1:E:306:ILE:HD12	1:E:307:THR:N	2.29	0.47
1:F:39:LYS:HE2	1:F:41:LYS:HD2	1.97	0.47
1:F:66:TYR:CE2	1:F:88:LEU:HD22	2.50	0.47
1:F:213:VAL:HG13	1:F:253:VAL:CG1	2.45	0.47
1:G:66:TYR:CE2	1:G:88:LEU:HD22	2.50	0.47
1:G:84:LEU:O	1:G:88:LEU:HG	2.14	0.47
1:G:151:ASP:C	1:G:151:ASP:OD1	2.53	0.47
1:I:11:THR:HG23	1:I:318:LEU:CB	2.44	0.47
1:I:179:PHE:HB2	1:I:288:THR:HB	1.93	0.47
1:I:184:MET:HE2	1:I:186:PHE:CE1	2.50	0.47
1:I:256:LYS:HA	1:I:256:LYS:CE	2.28	0.47
1:I:276:LEU:HD12	1:I:300:TYR:CE2	2.49	0.47
1:I:307:THR:HA	1:N:231:ALA:CB	2.45	0.47
1:I:309:ASN:O	1:N:229:GLU:OE1	2.33	0.47
1:J:27:LYS:NZ	1:J:35:ARG:NH2	2.59	0.47
1:J:66:TYR:CE2	1:J:88:LEU:HD22	2.50	0.47
1:J:73:VAL:CG1	1:N:240:MET:HE1	2.43	0.47
1:J:123:LYS:HZ1	1:J:127:ARG:HH12	1.61	0.47
1:J:130:ILE:CD1	1:J:152:ILE:HB	2.45	0.47
1:J:159:SER:OG	1:J:163:PHE:CE1	2.67	0.47
1:J:186:PHE:HE2	1:J:269:ILE:HD11	1.70	0.47
1:K:36:VAL:N	1:K:312:TRP:CH2	2.80	0.47
1:K:127:ARG:CG	1:K:154:ILE:HD12	2.44	0.47
1:K:153:THR:HG21	1:K:325:LYS:HE3	1.97	0.47
1:K:213:VAL:HG13	1:K:253:VAL:CG1	2.44	0.47
1:L:7:GLU:C	1:L:326:TYR:CE1	2.87	0.47
1:L:32:ASP:CA	1:L:34:LYS:HB2	2.44	0.47
1:L:184:MET:HE2	1:L:186:PHE:CE1	2.50	0.47
1:M:98:LEU:HD23	1:M:98:LEU:O	2.14	0.47
1:M:153:THR:HG21	1:M:325:LYS:HE3	1.97	0.47
1:M:188:LEU:C	1:M:188:LEU:HD23	2.35	0.47
1:M:206:VAL:HB	1:M:288:THR:OG1	2.14	0.47
1:M:320:LYS:NZ	1:N:49:TYR:CE1	2.74	0.47
1:N:39:LYS:HE2	1:N:41:LYS:HD2	1.97	0.47
1:N:43:TYR:HE2	1:N:67:LEU:HD13	1.77	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:153:THR:HG21	1:O:325:LYS:HE3	1.97	0.47
1:O:284:PHE:HE2	1:O:296:ILE:HG12	1.74	0.47
1:P:34:LYS:N	1:P:35:ARG:C	2.68	0.47
1:P:39:LYS:HE2	1:P:41:LYS:HD2	1.97	0.47
1:P:43:TYR:HE2	1:P:67:LEU:HD13	1.78	0.47
1:P:151:ASP:OD1	1:P:151:ASP:C	2.53	0.47
1:A:43:TYR:CD1	1:A:67:LEU:HB3	2.50	0.47
1:A:45:LEU:CD2	1:A:58:LYS:NZ	2.78	0.47
1:A:153:THR:HG21	1:A:325:LYS:HE3	1.97	0.47
1:B:34:LYS:N	1:B:35:ARG:C	2.68	0.47
1:B:43:TYR:CD1	1:B:67:LEU:HB3	2.50	0.47
1:B:45:LEU:CD2	1:B:58:LYS:NZ	2.78	0.47
1:C:7:GLU:C	1:C:326:TYR:CE1	2.87	0.47
1:C:22:ILE:HD11	1:C:319:TYR:HB2	1.95	0.47
1:C:43:TYR:CD1	1:C:67:LEU:HB3	2.50	0.47
1:C:47:ASP:O	1:D:323:VAL:CB	2.63	0.47
1:C:219:ASP:C	1:C:224:ASN:CB	2.82	0.47
1:C:310:SER:HA	1:C:313:THR:CG2	2.41	0.47
1:D:222:ASN:CB	1:D:237:ASN:CB	2.90	0.47
1:E:106:VAL:CG2	1:E:147:PHE:CE1	2.98	0.47
1:E:130:ILE:CD1	1:E:152:ILE:HB	2.45	0.47
1:E:188:LEU:C	1:E:188:LEU:HD23	2.35	0.47
1:F:34:LYS:N	1:F:35:ARG:C	2.68	0.47
1:F:127:ARG:CG	1:F:154:ILE:HD12	2.44	0.47
1:F:203:GLU:H	1:I:272:ARG:HA	1.80	0.47
1:F:220:LEU:C	1:F:221:ASN:O	2.52	0.47
1:G:45:LEU:CD2	1:G:58:LYS:NZ	2.78	0.47
1:G:130:ILE:CD1	1:G:152:ILE:HB	2.45	0.47
1:G:143:LYS:CE	1:G:145:TYR:CZ	2.98	0.47
1:G:164:LEU:HD13	1:G:313:THR:CA	2.40	0.47
1:G:183:ASN:OD1	1:J:197:SER:CB	2.62	0.47
1:G:203:GLU:CD	1:J:198:GLU:CG	2.80	0.47
1:H:11:THR:HG23	1:H:318:LEU:CB	2.44	0.47
1:H:52:ILE:O	1:H:74:GLU:CG	2.63	0.47
1:H:84:LEU:O	1:H:88:LEU:HG	2.14	0.47
1:H:143:LYS:CE	1:H:145:TYR:CZ	2.98	0.47
1:H:276:LEU:HD12	1:H:300:TYR:CE2	2.49	0.47
1:H:283:ILE:HD12	1:H:283:ILE:N	2.29	0.47
1:I:153:THR:HG21	1:I:325:LYS:HE3	1.97	0.47
1:J:127:ARG:CG	1:J:154:ILE:HD12	2.44	0.47
1:J:153:THR:HG21	1:J:325:LYS:HE3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:188:LEU:C	1:J:188:LEU:HD23	2.35	0.47
1:J:250:SER:HB2	1:J:254:ILE:HG23	1.95	0.47
1:K:188:LEU:HD23	1:K:188:LEU:C	2.35	0.47
1:L:149:ILE:HD13	1:L:149:ILE:HG21	1.74	0.47
1:M:34:LYS:N	1:M:35:ARG:C	2.68	0.47
1:M:151:ASP:C	1:M:151:ASP:OD1	2.53	0.47
1:M:220:LEU:O	1:M:235:LEU:N	2.47	0.47
1:M:284:PHE:HE2	1:M:296:ILE:HG12	1.74	0.47
1:O:184:MET:HE2	1:O:186:PHE:CE1	2.50	0.47
1:O:188:LEU:HD23	1:O:188:LEU:C	2.36	0.47
1:A:220:LEU:O	1:A:235:LEU:N	2.47	0.47
1:B:188:LEU:C	1:B:188:LEU:HD23	2.35	0.47
1:B:246:ILE:CA	1:F:50:ILE:C	2.49	0.47
1:C:184:MET:HE2	1:C:186:PHE:CE1	2.50	0.47
1:C:202:GLU:OE2	1:C:204:HIS:CG	2.68	0.47
1:D:34:LYS:N	1:D:35:ARG:CB	2.72	0.47
1:D:43:TYR:HE2	1:D:67:LEU:HD13	1.78	0.47
1:E:159:SER:OG	1:E:163:PHE:CE1	2.67	0.47
1:F:106:VAL:CG2	1:F:147:PHE:CE1	2.98	0.47
1:F:219:ASP:N	1:G:278:GLN:N	2.53	0.47
1:G:34:LYS:N	1:G:35:ARG:C	2.68	0.47
1:G:127:ARG:CG	1:G:154:ILE:HD12	2.44	0.47
1:G:218:THR:C	1:H:275:LYS:CB	2.78	0.47
1:H:27:LYS:HE2	1:H:35:ARG:CG	2.34	0.47
1:I:32:ASP:CA	1:I:34:LYS:HB2	2.44	0.47
1:I:143:LYS:CE	1:I:145:TYR:CZ	2.98	0.47
1:I:188:LEU:HD23	1:I:188:LEU:C	2.36	0.47
1:K:32:ASP:CA	1:K:34:LYS:HB2	2.44	0.47
1:K:75:ASP:OD1	1:O:245:GLU:OE1	2.33	0.47
1:K:130:ILE:CD1	1:K:152:ILE:HB	2.45	0.47
1:L:66:TYR:CE2	1:L:88:LEU:HD22	2.50	0.47
1:L:130:ILE:CD1	1:L:152:ILE:HB	2.45	0.47
1:L:153:THR:HG21	1:L:325:LYS:HE3	1.97	0.47
1:L:220:LEU:C	1:L:221:ASN:O	2.52	0.47
1:M:7:GLU:C	1:M:326:TYR:CE1	2.87	0.47
1:M:22:ILE:HD11	1:M:319:TYR:HB2	1.95	0.47
1:M:43:TYR:HE2	1:M:67:LEU:HD13	1.77	0.47
1:M:45:LEU:CD2	1:M:58:LYS:NZ	2.78	0.47
1:N:106:VAL:CG2	1:N:147:PHE:CE1	2.98	0.47
1:N:130:ILE:CD1	1:N:152:ILE:HB	2.45	0.47
1:N:220:LEU:O	1:N:235:LEU:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:222:ASN:CB	1:N:237:ASN:CB	2.91	0.47
1:O:27:LYS:HZ1	1:O:35:ARG:HE	1.61	0.47
1:O:151:ASP:C	1:O:151:ASP:OD1	2.53	0.47
1:O:165:GLU:OE1	1:O:167:GLU:HB2	2.13	0.47
1:O:301:PRO:N	1:P:227:THR:HG23	2.29	0.47
1:P:45:LEU:CD2	1:P:58:LYS:NZ	2.78	0.47
1:A:34:LYS:N	1:A:35:ARG:C	2.68	0.47
1:B:153:THR:HG21	1:B:325:LYS:HE3	1.97	0.47
1:B:219:ASP:C	1:B:224:ASN:CB	2.82	0.47
1:B:241:LYS:CE	1:G:305:ILE:HG22	2.45	0.47
1:B:247:ASP:CA	1:F:52:ILE:HD11	1.96	0.47
1:C:159:SER:OG	1:C:163:PHE:CE1	2.68	0.47
1:D:84:LEU:O	1:D:88:LEU:HG	2.14	0.47
1:D:111:ALA:HB1	1:D:157:GLU:HA	1.95	0.47
1:D:184:MET:HE2	1:D:186:PHE:CE1	2.50	0.47
1:D:188:LEU:HD23	1:D:188:LEU:C	2.35	0.47
1:D:206:VAL:HB	1:D:288:THR:OG1	2.14	0.47
1:D:245:GLU:O	1:H:52:ILE:HG13	2.14	0.47
1:E:11:THR:HG23	1:E:318:LEU:CB	2.44	0.47
1:E:45:LEU:CD2	1:E:58:LYS:NZ	2.78	0.47
1:E:250:SER:HB2	1:E:254:ILE:HG23	1.95	0.47
1:F:143:LYS:CE	1:F:145:TYR:CZ	2.98	0.47
1:G:19:THR:CG2	1:G:40:THR:HG22	2.36	0.47
1:G:39:LYS:HE2	1:G:41:LYS:HD2	1.97	0.47
1:G:283:ILE:N	1:G:283:ILE:HD12	2.29	0.47
1:H:66:TYR:CE2	1:H:88:LEU:HD22	2.50	0.47
1:H:179:PHE:HB2	1:H:288:THR:HB	1.93	0.47
1:H:220:LEU:O	1:H:235:LEU:N	2.47	0.47
1:I:106:VAL:CG2	1:I:147:PHE:CE1	2.98	0.47
1:J:34:LYS:N	1:J:35:ARG:C	2.68	0.47
1:J:45:LEU:CD2	1:J:58:LYS:NZ	2.78	0.47
1:J:52:ILE:O	1:J:74:GLU:CG	2.63	0.47
1:K:52:ILE:O	1:K:74:GLU:CG	2.63	0.47
1:K:143:LYS:CE	1:K:145:TYR:CZ	2.98	0.47
1:O:130:ILE:CD1	1:O:152:ILE:HB	2.45	0.47
1:O:169:PHE:CE2	1:P:76:SER:O	2.67	0.47
1:P:184:MET:HE2	1:P:186:PHE:CE1	2.50	0.47
1:A:11:THR:HG23	1:A:318:LEU:CB	2.44	0.46
1:A:130:ILE:CD1	1:A:152:ILE:HB	2.45	0.46
1:A:184:MET:HE2	1:A:186:PHE:CE1	2.50	0.46
1:A:202:GLU:OE2	1:A:204:HIS:CG	2.68	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:206:VAL:HB	1:A:288:THR:OG1	2.14	0.46
1:B:19:THR:CG2	1:B:40:THR:HG22	2.36	0.46
1:B:22:ILE:HD11	1:B:319:TYR:HB2	1.95	0.46
1:B:27:LYS:HZ1	1:B:35:ARG:HE	1.60	0.46
1:B:246:ILE:HG23	1:F:50:ILE:C	2.15	0.46
1:C:34:LYS:H	1:C:35:ARG:HB2	1.79	0.46
1:C:45:LEU:CD2	1:C:58:LYS:NZ	2.78	0.46
1:C:111:ALA:HB1	1:C:157:GLU:HA	1.95	0.46
1:C:116:VAL:CG2	1:C:121:LYS:NZ	2.79	0.46
1:C:222:ASN:CB	1:C:237:ASN:CB	2.90	0.46
1:D:27:LYS:HE2	1:D:35:ARG:CG	2.34	0.46
1:D:45:LEU:HD23	1:D:58:LYS:HZ1	1.81	0.46
1:D:52:ILE:O	1:D:74:GLU:CG	2.63	0.46
1:D:153:THR:HG21	1:D:325:LYS:HE3	1.97	0.46
1:E:143:LYS:CE	1:E:145:TYR:CZ	2.98	0.46
1:E:219:ASP:H	1:F:277:ASP:C	2.16	0.46
1:E:220:LEU:O	1:E:235:LEU:N	2.47	0.46
1:F:130:ILE:CD1	1:F:152:ILE:HB	2.45	0.46
1:F:202:GLU:HG2	1:I:272:ARG:CA	2.45	0.46
1:G:27:LYS:HE2	1:G:35:ARG:NE	2.26	0.46
1:G:153:THR:HG21	1:G:325:LYS:HE3	1.97	0.46
1:G:271:LYS:HG2	1:J:202:GLU:CD	2.35	0.46
1:H:34:LYS:N	1:H:35:ARG:C	2.68	0.46
1:H:116:VAL:CG2	1:H:121:LYS:NZ	2.78	0.46
1:I:123:LYS:HZ1	1:I:127:ARG:HH12	1.63	0.46
1:I:127:ARG:CG	1:I:154:ILE:HD12	2.44	0.46
1:K:151:ASP:C	1:K:151:ASP:OD1	2.53	0.46
1:L:34:LYS:N	1:L:35:ARG:C	2.68	0.46
1:L:45:LEU:CD2	1:L:58:LYS:NZ	2.78	0.46
1:L:143:LYS:CE	1:L:145:TYR:CZ	2.98	0.46
1:L:151:ASP:C	1:L:151:ASP:OD1	2.53	0.46
1:M:27:LYS:HZ1	1:M:35:ARG:HE	1.61	0.46
1:M:39:LYS:HE2	1:M:41:LYS:HD2	1.97	0.46
1:N:184:MET:HE2	1:N:186:PHE:CE1	2.50	0.46
1:N:206:VAL:HB	1:N:288:THR:OG1	2.14	0.46
1:O:34:LYS:N	1:O:35:ARG:C	2.68	0.46
1:O:106:VAL:CG2	1:O:147:PHE:CE1	2.98	0.46
1:O:202:GLU:OE2	1:O:204:HIS:CG	2.68	0.46
1:P:66:TYR:CE2	1:P:88:LEU:HD22	2.50	0.46
1:P:106:VAL:CG2	1:P:147:PHE:CE1	2.98	0.46
1:A:165:GLU:CD	1:A:167:GLU:HB2	2.34	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:219:ASP:C	1:A:224:ASN:CB	2.82	0.46
1:A:245:GLU:HG3	1:E:76:SER:OG	2.14	0.46
1:B:47:ASP:O	1:C:323:VAL:CB	2.63	0.46
1:B:111:ALA:HB1	1:B:157:GLU:HA	1.95	0.46
1:C:165:GLU:CD	1:C:167:GLU:HB2	2.34	0.46
1:C:242:LYS:HA	1:H:165:GLU:HA	1.98	0.46
1:D:7:GLU:C	1:D:326:TYR:CE1	2.88	0.46
1:D:39:LYS:HE2	1:D:41:LYS:HD2	1.97	0.46
1:D:45:LEU:CD2	1:D:58:LYS:NZ	2.78	0.46
1:E:34:LYS:H	1:E:35:ARG:HB2	1.78	0.46
1:E:52:ILE:O	1:E:74:GLU:CG	2.63	0.46
1:E:123:LYS:HZ1	1:E:127:ARG:HH12	1.61	0.46
1:E:184:MET:HE2	1:E:186:PHE:CE1	2.50	0.46
1:F:151:ASP:C	1:F:151:ASP:OD1	2.53	0.46
1:G:27:LYS:HE2	1:G:35:ARG:CG	2.34	0.46
1:G:43:TYR:CD1	1:G:67:LEU:HB3	2.50	0.46
1:G:165:GLU:CD	1:G:167:GLU:HB2	2.34	0.46
1:G:188:LEU:HD23	1:G:188:LEU:C	2.35	0.46
1:H:213:VAL:HG13	1:H:253:VAL:CG1	2.45	0.46
1:J:19:THR:CG2	1:J:40:THR:HG22	2.36	0.46
1:J:32:ASP:CA	1:J:34:LYS:HB2	2.44	0.46
1:J:43:TYR:CD1	1:J:67:LEU:HB3	2.50	0.46
1:J:84:LEU:O	1:J:88:LEU:HG	2.14	0.46
1:J:143:LYS:CE	1:J:145:TYR:CZ	2.98	0.46
1:K:19:THR:CG2	1:K:40:THR:HG22	2.36	0.46
1:L:43:TYR:CD1	1:L:67:LEU:HB3	2.50	0.46
1:L:164:LEU:HD13	1:L:313:THR:CA	2.40	0.46
1:M:173:ASN:ND2	1:M:279:LEU:CD2	2.70	0.46
1:M:184:MET:HE2	1:M:186:PHE:CE1	2.51	0.46
1:N:45:LEU:CD2	1:N:58:LYS:NZ	2.78	0.46
1:O:143:LYS:CE	1:O:145:TYR:CZ	2.98	0.46
1:P:206:VAL:HB	1:P:288:THR:OG1	2.14	0.46
1:A:52:ILE:O	1:A:74:GLU:CG	2.63	0.46
1:A:79:THR:CG2	1:B:192:CYS:HB2	2.38	0.46
1:A:111:ALA:HB1	1:A:157:GLU:HA	1.95	0.46
1:A:112:CYS:HG	1:A:122:ALA:HB1	1.79	0.46
1:A:188:LEU:HD23	1:A:188:LEU:C	2.35	0.46
1:B:116:VAL:CG2	1:B:121:LYS:NZ	2.79	0.46
1:B:184:MET:O	1:B:201:ILE:HD12	2.16	0.46
1:C:153:THR:HG21	1:C:325:LYS:HE3	1.97	0.46
1:E:66:TYR:CE2	1:E:88:LEU:HD22	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:219:ASP:C	1:F:277:ASP:CB	2.77	0.46
1:F:34:LYS:H	1:F:35:ARG:HB2	1.78	0.46
1:F:227:THR:CG2	1:G:300:TYR:N	2.62	0.46
1:G:147:PHE:CE2	1:G:149:ILE:HG22	2.51	0.46
1:G:213:VAL:HG13	1:G:253:VAL:CG1	2.44	0.46
1:H:151:ASP:OD1	1:H:151:ASP:C	2.53	0.46
1:H:153:THR:HG21	1:H:325:LYS:HE3	1.97	0.46
1:H:188:LEU:HD23	1:H:188:LEU:C	2.35	0.46
1:I:84:LEU:O	1:I:88:LEU:HG	2.14	0.46
1:I:305:ILE:HG22	1:N:241:LYS:HZ1	1.78	0.46
1:J:39:LYS:HE2	1:J:41:LYS:HD2	1.97	0.46
1:J:116:VAL:CG2	1:J:121:LYS:NZ	2.79	0.46
1:K:116:VAL:CG2	1:K:121:LYS:NZ	2.79	0.46
1:K:179:PHE:HB2	1:K:288:THR:HB	1.93	0.46
1:M:213:VAL:HG13	1:M:253:VAL:CG1	2.44	0.46
1:N:52:ILE:O	1:N:74:GLU:CG	2.63	0.46
1:N:219:ASP:C	1:N:224:ASN:CB	2.82	0.46
1:N:301:PRO:N	1:O:227:THR:HG23	2.29	0.46
1:O:220:LEU:O	1:O:235:LEU:N	2.47	0.46
1:P:43:TYR:CD1	1:P:67:LEU:HB3	2.50	0.46
1:P:84:LEU:O	1:P:88:LEU:HG	2.14	0.46
1:A:76:SER:O	1:B:169:PHE:CE2	2.67	0.46
1:A:106:VAL:CG2	1:A:147:PHE:CE1	2.98	0.46
1:A:184:MET:O	1:A:201:ILE:HD12	2.16	0.46
1:A:246:ILE:C	1:E:50:ILE:HD12	2.35	0.46
1:A:276:LEU:HD12	1:A:300:TYR:CE2	2.49	0.46
1:B:79:THR:CG2	1:C:192:CYS:HB2	2.38	0.46
1:B:106:VAL:CG2	1:B:147:PHE:CE1	2.98	0.46
1:D:43:TYR:CD1	1:D:67:LEU:HB3	2.50	0.46
1:D:130:ILE:CD1	1:D:152:ILE:HB	2.45	0.46
1:E:36:VAL:N	1:E:312:TRP:CH2	2.80	0.46
1:E:220:LEU:C	1:E:221:ASN:O	2.52	0.46
1:F:127:ARG:HG2	1:F:154:ILE:HD12	1.98	0.46
1:F:219:ASP:OD1	1:F:225:LEU:HG	2.11	0.46
1:F:268:LEU:HD21	1:I:268:LEU:HA	1.97	0.46
1:G:52:ILE:O	1:G:74:GLU:CG	2.63	0.46
1:H:27:LYS:HE2	1:H:35:ARG:NE	2.26	0.46
1:H:39:LYS:HE2	1:H:41:LYS:HD2	1.97	0.46
1:H:106:VAL:CG2	1:H:147:PHE:CE1	2.98	0.46
1:H:202:GLU:CG	1:K:271:LYS:HG2	2.44	0.46
1:I:66:TYR:CE2	1:I:88:LEU:HD22	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:116:VAL:CG2	1:I:121:LYS:NZ	2.79	0.46
1:I:220:LEU:O	1:I:235:LEU:N	2.47	0.46
1:J:151:ASP:C	1:J:151:ASP:OD1	2.53	0.46
1:J:202:GLU:OE2	1:J:204:HIS:CG	2.68	0.46
1:K:84:LEU:O	1:K:88:LEU:HG	2.14	0.46
1:K:202:GLU:OE2	1:K:204:HIS:CG	2.68	0.46
1:K:275:LYS:HZ2	1:L:219:ASP:HB3	1.80	0.46
1:L:39:LYS:HE2	1:L:41:LYS:HD2	1.97	0.46
1:L:106:VAL:CG2	1:L:147:PHE:CE1	2.98	0.46
1:L:116:VAL:CG2	1:L:121:LYS:NZ	2.79	0.46
1:L:188:LEU:HD23	1:L:188:LEU:C	2.36	0.46
1:M:11:THR:HG23	1:M:318:LEU:CB	2.44	0.46
1:M:301:PRO:HD3	1:N:227:THR:CB	1.89	0.46
1:M:301:PRO:N	1:N:227:THR:HG23	2.29	0.46
1:N:34:LYS:N	1:N:35:ARG:C	2.68	0.46
1:N:202:GLU:OE2	1:N:204:HIS:CG	2.68	0.46
1:N:213:VAL:HG13	1:N:253:VAL:CG1	2.44	0.46
1:N:301:PRO:CD	1:O:227:THR:CG2	2.93	0.46
1:N:310:SER:HA	1:N:313:THR:CG2	2.42	0.46
1:O:43:TYR:CD1	1:O:67:LEU:HB3	2.50	0.46
1:O:52:ILE:O	1:O:74:GLU:CG	2.63	0.46
1:O:147:PHE:CE2	1:O:149:ILE:HG22	2.51	0.46
1:O:213:VAL:HG13	1:O:253:VAL:CG1	2.44	0.46
1:P:11:THR:HG23	1:P:318:LEU:CB	2.44	0.46
1:P:143:LYS:CE	1:P:145:TYR:CZ	2.98	0.46
1:P:147:PHE:CE2	1:P:149:ILE:HG22	2.51	0.46
1:B:7:GLU:C	1:B:326:TYR:CE1	2.87	0.46
1:C:66:TYR:CE2	1:C:88:LEU:HD22	2.50	0.46
1:C:130:ILE:CD1	1:C:152:ILE:HB	2.45	0.46
1:C:184:MET:O	1:C:201:ILE:HD12	2.16	0.46
1:C:231:ALA:HB3	1:H:307:THR:HA	1.97	0.46
1:D:106:VAL:CG2	1:D:147:PHE:CE1	2.98	0.46
1:D:147:PHE:CE2	1:D:149:ILE:HG22	2.51	0.46
1:D:151:ASP:C	1:D:151:ASP:OD1	2.53	0.46
1:E:112:CYS:HG	1:E:122:ALA:HB1	1.80	0.46
1:E:116:VAL:CG2	1:E:121:LYS:NZ	2.79	0.46
1:E:127:ARG:CG	1:E:154:ILE:HD12	2.44	0.46
1:E:184:MET:O	1:E:201:ILE:HD12	2.16	0.46
1:E:202:GLU:OE2	1:E:204:HIS:CG	2.68	0.46
1:F:45:LEU:CD2	1:F:58:LYS:NZ	2.78	0.46
1:F:116:VAL:CG2	1:F:121:LYS:NZ	2.78	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:203:GLU:OE2	1:I:274:PHE:HZ	1.98	0.46
1:G:202:GLU:CD	1:J:271:LYS:HG2	2.35	0.46
1:H:127:ARG:HG2	1:H:154:ILE:HD12	1.98	0.46
1:H:184:MET:HE2	1:H:186:PHE:CE1	2.50	0.46
1:H:184:MET:O	1:H:201:ILE:HD12	2.16	0.46
1:H:272:ARG:HH11	1:K:201:ILE:HG23	1.74	0.46
1:H:272:ARG:HA	1:K:203:GLU:H	1.80	0.46
1:I:130:ILE:CD1	1:I:152:ILE:HB	2.45	0.46
1:I:202:GLU:OE2	1:I:204:HIS:CG	2.69	0.46
1:J:7:GLU:C	1:J:326:TYR:CE1	2.87	0.46
1:J:11:THR:HG23	1:J:318:LEU:CB	2.44	0.46
1:J:98:LEU:HD21	1:J:104:ASN:HB3	1.98	0.46
1:K:50:ILE:C	1:O:246:ILE:HG23	2.18	0.46
1:K:241:LYS:HB2	1:O:308:ASN:HD21	1.80	0.46
1:L:43:TYR:CE2	1:L:70:GLU:OE1	2.69	0.46
1:L:52:ILE:O	1:L:74:GLU:CG	2.63	0.46
1:L:202:GLU:OE2	1:L:204:HIS:CG	2.68	0.46
1:M:84:LEU:O	1:M:88:LEU:HG	2.14	0.46
1:M:130:ILE:CD1	1:M:152:ILE:HB	2.45	0.46
1:M:310:SER:HA	1:M:313:THR:CG2	2.42	0.46
1:N:7:GLU:C	1:N:326:TYR:CE1	2.87	0.46
1:N:43:TYR:CD1	1:N:67:LEU:HB3	2.50	0.46
1:N:112:CYS:HG	1:N:122:ALA:HB1	1.79	0.46
1:N:143:LYS:CE	1:N:145:TYR:CZ	2.98	0.46
1:N:169:PHE:CE2	1:O:76:SER:O	2.67	0.46
1:O:39:LYS:HE2	1:O:41:LYS:HD2	1.97	0.46
1:O:66:TYR:CE2	1:O:88:LEU:HD22	2.50	0.46
1:O:84:LEU:O	1:O:88:LEU:HG	2.14	0.46
1:O:181:GLY:HA2	1:O:206:VAL:CG1	2.31	0.46
1:O:323:VAL:CB	1:P:47:ASP:O	2.63	0.46
1:P:43:TYR:CE2	1:P:70:GLU:OE1	2.69	0.46
1:P:123:LYS:HZ3	1:P:127:ARG:NH1	2.14	0.46
1:P:130:ILE:CD1	1:P:152:ILE:HB	2.45	0.46
1:P:153:THR:HG21	1:P:325:LYS:HE3	1.97	0.46
1:P:276:LEU:HD12	1:P:300:TYR:CE2	2.49	0.46
1:A:7:GLU:C	1:A:326:TYR:CE1	2.87	0.46
1:A:229:GLU:OE2	1:F:312:TRP:HD1	1.99	0.46
1:B:130:ILE:CD1	1:B:152:ILE:HB	2.45	0.46
1:B:143:LYS:CE	1:B:145:TYR:CZ	2.98	0.46
1:B:248:THR:HG22	1:F:52:ILE:CA	2.32	0.46
1:C:106:VAL:CG2	1:C:147:PHE:CE1	2.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:214:GLY:N	1:C:235:LEU:HD11	2.31	0.46
1:C:227:THR:CB	1:D:301:PRO:HD3	1.89	0.46
1:D:143:LYS:CE	1:D:145:TYR:CZ	2.98	0.46
1:E:98:LEU:HD21	1:E:104:ASN:HB3	1.98	0.46
1:E:147:PHE:CE2	1:E:149:ILE:HG22	2.51	0.46
1:G:34:LYS:H	1:G:35:ARG:HB2	1.78	0.46
1:G:46:GLU:HG3	1:H:324:ALA:CA	2.39	0.46
1:G:106:VAL:CG2	1:G:147:PHE:CE1	2.98	0.46
1:G:116:VAL:CG2	1:G:121:LYS:NZ	2.78	0.46
1:G:127:ARG:HG2	1:G:154:ILE:HD12	1.98	0.46
1:G:220:LEU:O	1:G:235:LEU:N	2.47	0.46
1:H:43:TYR:CD2	1:H:67:LEU:CB	2.95	0.46
1:H:43:TYR:CD1	1:H:67:LEU:HB3	2.50	0.46
1:I:52:ILE:O	1:I:74:GLU:CG	2.63	0.46
1:I:98:LEU:HD21	1:I:104:ASN:HB3	1.98	0.46
1:I:164:LEU:HD13	1:I:313:THR:CA	2.40	0.46
1:I:277:ASP:C	1:J:219:ASP:H	2.16	0.46
1:J:106:VAL:CG2	1:J:147:PHE:CE1	2.98	0.46
1:K:11:THR:HG23	1:K:318:LEU:CB	2.44	0.46
1:K:74:GLU:CA	1:O:245:GLU:O	2.62	0.46
1:K:184:MET:O	1:K:201:ILE:HD12	2.16	0.46
1:L:27:LYS:HZ1	1:L:35:ARG:HH21	1.61	0.46
1:M:147:PHE:CE2	1:M:149:ILE:HG22	2.51	0.46
1:M:184:MET:O	1:M:201:ILE:HD12	2.16	0.46
1:M:219:ASP:C	1:M:224:ASN:CB	2.82	0.46
1:N:84:LEU:O	1:N:88:LEU:HG	2.14	0.46
1:O:116:VAL:CG2	1:O:121:LYS:NZ	2.79	0.46
1:O:184:MET:O	1:O:201:ILE:HD12	2.16	0.46
1:P:213:VAL:HG13	1:P:253:VAL:CG1	2.45	0.46
1:P:222:ASN:CB	1:P:237:ASN:CB	2.90	0.46
1:A:19:THR:CG2	1:A:40:THR:HG22	2.36	0.46
1:A:34:LYS:H	1:A:35:ARG:HB2	1.79	0.46
1:A:147:PHE:CE2	1:A:149:ILE:HG22	2.51	0.46
1:A:229:GLU:OE2	1:F:309:ASN:C	2.45	0.46
1:B:43:TYR:CD2	1:B:67:LEU:CB	2.95	0.46
1:B:52:ILE:O	1:B:74:GLU:CG	2.63	0.46
1:B:256:LYS:HA	1:B:256:LYS:CE	2.28	0.46
1:C:143:LYS:CE	1:C:145:TYR:CZ	2.98	0.46
1:D:184:MET:O	1:D:201:ILE:HD12	2.16	0.46
1:D:306:ILE:HD12	1:D:307:THR:N	2.29	0.46
1:E:127:ARG:HG2	1:E:154:ILE:HD12	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:202:GLU:OE2	1:F:204:HIS:CG	2.68	0.46
1:G:197:SER:C	1:J:203:GLU:CB	2.76	0.46
1:H:34:LYS:H	1:H:35:ARG:HB2	1.78	0.46
1:I:32:ASP:HB3	1:I:34:LYS:HD2	1.93	0.46
1:J:147:PHE:CE2	1:J:149:ILE:HG22	2.51	0.46
1:K:27:LYS:HZ1	1:K:35:ARG:HE	1.63	0.46
1:K:52:ILE:HG12	1:O:246:ILE:CA	2.45	0.46
1:K:147:PHE:CE2	1:K:149:ILE:HG22	2.51	0.46
1:K:165:GLU:CD	1:P:241:LYS:O	2.53	0.46
1:M:32:ASP:HB3	1:M:34:LYS:HD2	1.93	0.46
1:M:66:TYR:CE2	1:M:88:LEU:HD22	2.50	0.46
1:M:106:VAL:CG2	1:M:147:PHE:CE1	2.98	0.46
1:M:143:LYS:CE	1:M:145:TYR:CZ	2.98	0.46
1:M:320:LYS:HD3	1:N:49:TYR:CZ	2.51	0.46
1:N:34:LYS:H	1:N:35:ARG:HB2	1.79	0.46
1:N:153:THR:HG21	1:N:325:LYS:HE3	1.97	0.46
1:N:184:MET:O	1:N:201:ILE:HD12	2.16	0.46
1:N:323:VAL:CB	1:O:47:ASP:O	2.63	0.46
1:O:45:LEU:CD2	1:O:58:LYS:NZ	2.78	0.46
1:P:45:LEU:CD2	1:P:58:LYS:HZ3	2.27	0.46
1:P:184:MET:O	1:P:201:ILE:HD12	2.16	0.46
1:P:220:LEU:O	1:P:235:LEU:N	2.47	0.46
1:A:66:TYR:CE2	1:A:88:LEU:HD22	2.50	0.46
1:A:143:LYS:CE	1:A:145:TYR:CZ	2.98	0.46
1:A:164:LEU:HD13	1:A:313:THR:CA	2.40	0.46
1:A:306:ILE:HD12	1:A:307:THR:N	2.29	0.46
1:C:227:THR:HG23	1:D:301:PRO:N	2.29	0.46
1:F:43:TYR:CE2	1:F:70:GLU:OE1	2.69	0.46
1:F:43:TYR:CD1	1:F:67:LEU:HB3	2.50	0.46
1:F:98:LEU:HD21	1:F:104:ASN:HB3	1.98	0.46
1:F:188:LEU:HD23	1:F:188:LEU:C	2.35	0.46
1:F:202:GLU:OE2	1:I:272:ARG:HA	2.16	0.46
1:F:220:LEU:O	1:F:235:LEU:N	2.47	0.46
1:G:198:GLU:CA	1:J:203:GLU:CB	2.88	0.46
1:G:202:GLU:OE2	1:G:204:HIS:CG	2.68	0.46
1:H:45:LEU:CD2	1:H:58:LYS:NZ	2.78	0.46
1:H:98:LEU:HD21	1:H:104:ASN:HB3	1.98	0.46
1:I:19:THR:CG2	1:I:40:THR:HG22	2.36	0.46
1:I:241:LYS:HB3	1:M:308:ASN:ND2	2.31	0.46
1:J:43:TYR:CE2	1:J:70:GLU:OE1	2.69	0.46
1:J:184:MET:O	1:J:201:ILE:HD12	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:277:ASP:CB	1:K:219:ASP:C	2.77	0.46
1:J:307:THR:C	1:O:230:GLN:CB	2.67	0.46
1:K:173:ASN:ND2	1:K:279:LEU:CD2	2.70	0.46
1:L:84:LEU:O	1:L:88:LEU:HG	2.15	0.46
1:L:98:LEU:HD21	1:L:104:ASN:HB3	1.98	0.46
1:M:43:TYR:CD1	1:M:67:LEU:HB3	2.50	0.46
1:M:52:ILE:O	1:M:74:GLU:CG	2.63	0.46
1:M:95:THR:HG21	1:M:136:ILE:HG21	1.97	0.46
1:M:164:LEU:HD13	1:M:313:THR:CA	2.40	0.46
1:M:169:PHE:CE2	1:N:76:SER:O	2.67	0.46
1:M:202:GLU:OE2	1:M:204:HIS:CG	2.68	0.46
1:N:147:PHE:CE2	1:N:149:ILE:HG22	2.51	0.46
1:N:214:GLY:N	1:N:235:LEU:HD11	2.31	0.46
1:O:43:TYR:CE2	1:O:70:GLU:OE1	2.69	0.46
1:P:116:VAL:CG2	1:P:121:LYS:NZ	2.79	0.46
1:A:49:TYR:CZ	1:B:320:LYS:HD3	2.51	0.46
1:A:214:GLY:N	1:A:235:LEU:HD11	2.31	0.46
1:B:39:LYS:HE2	1:B:41:LYS:HD2	1.97	0.46
1:B:52:ILE:CA	1:B:74:GLU:HG2	2.46	0.46
1:B:202:GLU:OE2	1:B:204:HIS:CG	2.68	0.46
1:C:52:ILE:O	1:C:74:GLU:CG	2.63	0.46
1:C:52:ILE:CA	1:C:74:GLU:HG2	2.46	0.46
1:D:112:CYS:HG	1:D:122:ALA:HB1	1.81	0.46
1:E:43:TYR:CE2	1:E:70:GLU:OE1	2.69	0.46
1:E:49:TYR:HE1	1:F:320:LYS:CB	2.20	0.46
1:E:52:ILE:CA	1:E:74:GLU:HG2	2.46	0.46
1:E:105:LYS:HZ3	1:E:148:GLU:CB	2.28	0.46
1:E:219:ASP:OD1	1:E:225:LEU:HG	2.11	0.46
1:F:52:ILE:CA	1:F:74:GLU:HG2	2.46	0.46
1:F:114:LEU:CD1	1:F:156:ALA:HB1	2.46	0.46
1:F:272:ARG:NH1	1:I:201:ILE:CG2	2.78	0.46
1:G:11:THR:HG23	1:G:318:LEU:CB	2.44	0.46
1:G:114:LEU:CD1	1:G:156:ALA:HB1	2.46	0.46
1:G:271:LYS:HZ3	1:J:265:ALA:HA	1.73	0.46
1:H:130:ILE:CD1	1:H:152:ILE:HB	2.45	0.46
1:H:149:ILE:HD13	1:H:149:ILE:HG21	1.74	0.46
1:H:177:ILE:CG1	1:H:284:PHE:HA	2.46	0.46
1:H:201:ILE:HG21	1:K:196:PRO:O	2.16	0.46
1:H:202:GLU:OE2	1:H:204:HIS:CG	2.68	0.46
1:I:45:LEU:CD2	1:I:58:LYS:NZ	2.78	0.46
1:I:114:LEU:CD1	1:I:156:ALA:HB1	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:127:ARG:HG2	1:I:154:ILE:HD12	1.98	0.46
1:J:52:ILE:HD13	1:N:248:THR:HG23	1.96	0.46
1:K:43:TYR:CE2	1:K:70:GLU:OE1	2.69	0.46
1:K:305:ILE:HG22	1:P:241:LYS:HZ3	1.77	0.46
1:L:214:GLY:N	1:L:235:LEU:HD11	2.31	0.46
1:M:116:VAL:CG2	1:M:121:LYS:NZ	2.79	0.46
1:M:209:LEU:O	1:M:213:VAL:HG23	2.16	0.46
1:N:114:LEU:CD1	1:N:156:ALA:HB1	2.46	0.46
1:N:151:ASP:C	1:N:151:ASP:OD1	2.53	0.46
1:N:164:LEU:HD13	1:N:313:THR:CA	2.40	0.46
1:O:256:LYS:HA	1:O:256:LYS:CE	2.28	0.46
1:P:114:LEU:CD1	1:P:156:ALA:HB1	2.46	0.46
1:P:202:GLU:OE2	1:P:204:HIS:CG	2.68	0.46
1:A:52:ILE:CA	1:A:74:GLU:HG2	2.46	0.46
1:C:188:LEU:HD23	1:C:188:LEU:C	2.36	0.46
1:D:22:ILE:HB	1:D:27:LYS:HE3	1.96	0.46
1:D:34:LYS:N	1:D:35:ARG:C	2.68	0.46
1:D:173:ASN:ND2	1:D:279:LEU:CD2	2.70	0.46
1:E:43:TYR:CD1	1:E:67:LEU:HB3	2.50	0.46
1:F:27:LYS:HE2	1:F:35:ARG:CG	2.34	0.46
1:F:52:ILE:O	1:F:74:GLU:CG	2.63	0.46
1:F:184:MET:O	1:F:201:ILE:HD12	2.16	0.46
1:F:271:LYS:HG2	1:I:202:GLU:CG	2.45	0.46
1:G:98:LEU:HD21	1:G:104:ASN:HB3	1.98	0.46
1:G:274:PHE:CD1	1:J:204:HIS:CE1	2.77	0.46
1:H:114:LEU:CD1	1:H:156:ALA:HB1	2.46	0.46
1:H:147:PHE:CE2	1:H:149:ILE:HG22	2.51	0.46
1:H:214:GLY:N	1:H:235:LEU:HD11	2.31	0.46
1:I:39:LYS:HE2	1:I:41:LYS:HD2	1.97	0.46
1:I:52:ILE:CA	1:I:74:GLU:HG2	2.46	0.46
1:I:151:ASP:C	1:I:151:ASP:OD1	2.53	0.46
1:I:159:SER:OG	1:I:163:PHE:CE1	2.67	0.46
1:J:52:ILE:CD1	1:N:248:THR:HG23	2.47	0.46
1:J:52:ILE:CA	1:J:74:GLU:HG2	2.46	0.46
1:K:52:ILE:CA	1:K:74:GLU:HG2	2.46	0.46
1:K:222:ASN:CB	1:K:237:ASN:CB	2.90	0.46
1:K:320:LYS:CB	1:L:49:TYR:HE1	2.20	0.46
1:M:177:ILE:CG1	1:M:284:PHE:HA	2.46	0.46
1:N:95:THR:HG21	1:N:136:ILE:HG21	1.97	0.46
1:N:116:VAL:CG2	1:N:121:LYS:NZ	2.79	0.46
1:O:276:LEU:HD12	1:O:300:TYR:CE2	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:52:ILE:CA	1:P:74:GLU:HG2	2.46	0.46
1:P:209:LEU:O	1:P:213:VAL:HG23	2.17	0.46
1:P:284:PHE:HE2	1:P:296:ILE:HG12	1.74	0.46
1:A:35:ARG:HH22	1:A:316:GLU:HG2	1.81	0.45
1:B:35:ARG:HH22	1:B:316:GLU:HG2	1.81	0.45
1:B:209:LEU:O	1:B:213:VAL:HG23	2.16	0.45
1:B:214:GLY:N	1:B:235:LEU:HD11	2.31	0.45
1:D:52:ILE:CA	1:D:74:GLU:HG2	2.46	0.45
1:D:181:GLY:HA2	1:D:206:VAL:CG1	2.32	0.45
1:F:147:PHE:CE2	1:F:149:ILE:HG22	2.51	0.45
1:F:177:ILE:CG1	1:F:284:PHE:HA	2.46	0.45
1:F:227:THR:H	1:G:300:TYR:HB3	1.59	0.45
1:G:52:ILE:CA	1:G:74:GLU:HG2	2.46	0.45
1:G:160:GLY:O	1:G:317:GLY:HA3	2.16	0.45
1:G:177:ILE:CG1	1:G:284:PHE:HA	2.46	0.45
1:H:222:ASN:CB	1:H:237:ASN:CB	2.90	0.45
1:I:43:TYR:CE2	1:I:70:GLU:OE1	2.69	0.45
1:I:147:PHE:CE2	1:I:149:ILE:HG22	2.51	0.45
1:I:184:MET:O	1:I:201:ILE:HD12	2.16	0.45
1:J:114:LEU:CD1	1:J:156:ALA:HB1	2.46	0.45
1:K:45:LEU:CD2	1:K:58:LYS:NZ	2.78	0.45
1:K:98:LEU:HD21	1:K:104:ASN:HB3	1.98	0.45
1:K:106:VAL:CG2	1:K:147:PHE:CE1	2.98	0.45
1:L:50:ILE:C	1:P:246:ILE:HG23	2.14	0.45
1:L:52:ILE:CA	1:L:74:GLU:HG2	2.46	0.45
1:N:43:TYR:CE2	1:N:70:GLU:OE1	2.69	0.45
1:N:66:TYR:CE2	1:N:88:LEU:HD22	2.50	0.45
1:N:177:ILE:CG1	1:N:284:PHE:HA	2.46	0.45
1:O:52:ILE:CA	1:O:74:GLU:HG2	2.46	0.45
1:O:209:LEU:O	1:O:213:VAL:HG23	2.16	0.45
1:P:98:LEU:HD21	1:P:104:ASN:HB3	1.98	0.45
1:P:214:GLY:N	1:P:235:LEU:HD11	2.31	0.45
1:A:43:TYR:CE2	1:A:70:GLU:OE1	2.69	0.45
1:A:47:ASP:O	1:B:323:VAL:CB	2.63	0.45
1:A:116:VAL:CG2	1:A:121:LYS:NZ	2.79	0.45
1:B:147:PHE:CE2	1:B:149:ILE:HG22	2.51	0.45
1:B:159:SER:OG	1:B:163:PHE:CE1	2.67	0.45
1:B:306:ILE:HD12	1:B:307:THR:N	2.29	0.45
1:C:35:ARG:HH22	1:C:316:GLU:HG2	1.81	0.45
1:C:181:GLY:HA2	1:C:206:VAL:CG1	2.31	0.45
1:C:209:LEU:O	1:C:213:VAL:HG23	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:98:LEU:HD21	1:D:104:ASN:HB3	1.98	0.45
1:D:116:VAL:CG2	1:D:121:LYS:NZ	2.79	0.45
1:D:202:GLU:OE2	1:D:204:HIS:CG	2.69	0.45
1:F:49:TYR:C	1:G:323:VAL:CA	2.53	0.45
1:G:184:MET:O	1:G:201:ILE:HD12	2.16	0.45
1:G:219:ASP:N	1:H:278:GLN:N	2.53	0.45
1:H:52:ILE:CA	1:H:74:GLU:HG2	2.46	0.45
1:I:278:GLN:N	1:J:219:ASP:N	2.53	0.45
1:J:127:ARG:HG2	1:J:154:ILE:HD12	1.98	0.45
1:J:320:LYS:C	1:O:246:ILE:CD1	2.84	0.45
1:L:49:TYR:CG	1:P:246:ILE:HG13	2.51	0.45
1:L:184:MET:O	1:L:201:ILE:HD12	2.16	0.45
1:L:209:LEU:O	1:L:213:VAL:HG23	2.16	0.45
1:M:214:GLY:N	1:M:235:LEU:HD11	2.31	0.45
1:M:300:TYR:C	1:N:227:THR:CG2	2.66	0.45
1:N:209:LEU:O	1:N:213:VAL:HG23	2.16	0.45
1:O:114:LEU:CD1	1:O:156:ALA:HB1	2.46	0.45
1:O:127:ARG:HG2	1:O:154:ILE:HD12	1.98	0.45
1:P:52:ILE:O	1:P:74:GLU:CG	2.63	0.45
1:P:127:ARG:HG2	1:P:154:ILE:HD12	1.98	0.45
1:P:188:LEU:HD23	1:P:188:LEU:C	2.35	0.45
1:C:43:TYR:CE2	1:C:70:GLU:OE1	2.69	0.45
1:C:147:PHE:CE2	1:C:149:ILE:HG22	2.51	0.45
1:D:35:ARG:HH22	1:D:316:GLU:HG2	1.81	0.45
1:D:43:TYR:CE2	1:D:70:GLU:OE1	2.69	0.45
1:D:116:VAL:CG2	1:D:121:LYS:HZ2	2.29	0.45
1:D:219:ASP:C	1:D:224:ASN:CB	2.82	0.45
1:E:27:LYS:HZ1	1:E:35:ARG:HE	1.60	0.45
1:E:114:LEU:CD1	1:E:156:ALA:HB1	2.46	0.45
1:E:177:ILE:CG1	1:E:284:PHE:HA	2.46	0.45
1:E:214:GLY:N	1:E:235:LEU:HD11	2.31	0.45
1:F:159:SER:OG	1:F:163:PHE:CE1	2.67	0.45
1:G:43:TYR:CE2	1:G:70:GLU:OE1	2.69	0.45
1:I:214:GLY:N	1:I:235:LEU:HD11	2.31	0.45
1:J:171:ASN:HA	1:J:191:ASN:OD1	2.17	0.45
1:J:320:LYS:CB	1:K:49:TYR:HE1	2.20	0.45
1:K:127:ARG:HG2	1:K:154:ILE:HD12	1.98	0.45
1:L:22:ILE:HD12	1:L:27:LYS:HZ1	1.81	0.45
1:L:127:ARG:HG2	1:L:154:ILE:HD12	1.98	0.45
1:M:43:TYR:CE2	1:M:70:GLU:OE1	2.69	0.45
1:M:114:LEU:CD1	1:M:156:ALA:HB1	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:323:VAL:CB	1:N:47:ASP:O	2.63	0.45
1:N:52:ILE:CA	1:N:74:GLU:HG2	2.46	0.45
1:N:188:LEU:HD23	1:N:188:LEU:C	2.36	0.45
1:O:98:LEU:HD21	1:O:104:ASN:HB3	1.98	0.45
1:O:164:LEU:HD13	1:O:313:THR:CA	2.40	0.45
1:O:177:ILE:CG1	1:O:284:PHE:HA	2.46	0.45
1:O:301:PRO:CD	1:P:227:THR:CG2	2.93	0.45
1:A:49:TYR:CE2	1:B:320:LYS:HD3	2.52	0.45
1:A:209:LEU:O	1:A:213:VAL:HG23	2.16	0.45
1:B:114:LEU:CD1	1:B:156:ALA:HB1	2.46	0.45
1:B:222:ASN:ND2	1:B:237:ASN:ND2	2.65	0.45
1:B:276:LEU:HD12	1:B:300:TYR:CE2	2.49	0.45
1:C:22:ILE:HB	1:C:27:LYS:HE3	1.96	0.45
1:C:179:PHE:HB2	1:C:288:THR:HB	1.93	0.45
1:D:66:TYR:CE2	1:D:88:LEU:HD22	2.50	0.45
1:D:127:ARG:HG2	1:D:154:ILE:HD12	1.98	0.45
1:E:160:GLY:O	1:E:317:GLY:HA3	2.16	0.45
1:F:120:ALA:H	1:I:119:ASN:CG	2.17	0.45
1:F:213:VAL:HB	1:F:235:LEU:HD13	1.99	0.45
1:G:214:GLY:N	1:G:235:LEU:HD11	2.31	0.45
1:H:19:THR:CG2	1:H:40:THR:HG22	2.36	0.45
1:H:274:PHE:HZ	1:K:203:GLU:OE2	1.98	0.45
1:I:171:ASN:HA	1:I:191:ASN:OD1	2.17	0.45
1:I:323:VAL:CA	1:J:49:TYR:C	2.53	0.45
1:J:32:ASP:HB3	1:J:34:LYS:HD2	1.93	0.45
1:J:214:GLY:N	1:J:235:LEU:HD11	2.31	0.45
1:L:147:PHE:CE2	1:L:149:ILE:HG22	2.51	0.45
1:L:171:ASN:HA	1:L:191:ASN:OD1	2.17	0.45
1:M:45:LEU:CB	1:M:67:LEU:HD11	2.40	0.45
1:M:109:VAL:CG2	1:M:321:VAL:HG13	2.46	0.45
1:M:160:GLY:O	1:M:317:GLY:HA3	2.17	0.45
1:M:306:ILE:HD12	1:M:307:THR:N	2.29	0.45
1:N:127:ARG:HG2	1:N:154:ILE:HD12	1.98	0.45
1:N:159:SER:OG	1:N:163:PHE:CE1	2.68	0.45
1:N:160:GLY:O	1:N:317:GLY:HA3	2.16	0.45
1:A:227:THR:CB	1:B:301:PRO:HD3	1.89	0.45
1:B:164:LEU:HD13	1:B:313:THR:CA	2.40	0.45
1:C:222:ASN:ND2	1:C:237:ASN:ND2	2.65	0.45
1:E:34:LYS:N	1:E:35:ARG:C	2.68	0.45
1:E:61:LEU:HD23	1:E:62:ASP:HB2	1.99	0.45
1:E:165:GLU:OE1	1:E:167:GLU:CB	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:123:LYS:HZ1	1:F:127:ARG:HH12	1.64	0.45
1:F:153:THR:HG21	1:F:325:LYS:HE3	1.97	0.45
1:F:160:GLY:O	1:F:317:GLY:HA3	2.17	0.45
1:G:171:ASN:HA	1:G:191:ASN:OD1	2.17	0.45
1:G:203:GLU:CB	1:J:197:SER:C	2.75	0.45
1:G:213:VAL:HB	1:G:235:LEU:HD13	1.99	0.45
1:H:160:GLY:O	1:H:317:GLY:HA3	2.17	0.45
1:I:7:GLU:C	1:I:326:TYR:CE1	2.87	0.45
1:I:213:VAL:HB	1:I:235:LEU:HD13	1.99	0.45
1:J:58:LYS:HZ2	1:J:65:GLU:CG	2.30	0.45
1:J:165:GLU:OE1	1:J:167:GLU:CB	2.65	0.45
1:J:222:ASN:ND2	1:J:237:ASN:ND2	2.65	0.45
1:J:245:GLU:OE2	1:O:52:ILE:CD1	2.64	0.45
1:K:171:ASN:HA	1:K:191:ASN:OD1	2.17	0.45
1:K:209:LEU:O	1:K:213:VAL:HG23	2.16	0.45
1:K:214:GLY:N	1:K:235:LEU:HD11	2.31	0.45
1:N:32:ASP:HB3	1:N:34:LYS:HD2	1.93	0.45
1:N:285:ILE:C	1:N:289:THR:OG1	2.55	0.45
1:O:95:THR:HG21	1:O:136:ILE:HG21	1.97	0.45
1:O:222:ASN:ND2	1:O:237:ASN:ND2	2.65	0.45
1:P:159:SER:OG	1:P:163:PHE:CE1	2.68	0.45
1:P:177:ILE:CG1	1:P:284:PHE:HA	2.46	0.45
1:B:49:TYR:CE2	1:C:320:LYS:HD3	2.52	0.45
1:B:227:THR:HG23	1:C:301:PRO:N	2.29	0.45
1:B:229:GLU:N	1:G:309:ASN:OD1	2.49	0.45
1:B:230:GLN:CB	1:G:307:THR:C	2.77	0.45
1:B:246:ILE:CG1	1:G:320:LYS:CA	2.89	0.45
1:C:34:LYS:N	1:C:35:ARG:C	2.68	0.45
1:D:160:GLY:O	1:D:317:GLY:HA3	2.17	0.45
1:D:214:GLY:N	1:D:235:LEU:HD11	2.31	0.45
1:E:22:ILE:HB	1:E:27:LYS:HE3	1.96	0.45
1:E:217:LEU:CD2	1:F:278:GLN:OE1	2.65	0.45
1:E:222:ASN:CB	1:E:237:ASN:CB	2.90	0.45
1:G:272:ARG:HH11	1:J:201:ILE:HG13	1.68	0.45
1:H:171:ASN:HA	1:H:191:ASN:OD1	2.17	0.45
1:H:213:VAL:HB	1:H:235:LEU:HD13	1.99	0.45
1:I:320:LYS:CB	1:J:49:TYR:HE1	2.20	0.45
1:J:209:LEU:O	1:J:213:VAL:HG23	2.16	0.45
1:J:213:VAL:HB	1:J:235:LEU:HD13	1.99	0.45
1:K:34:LYS:N	1:K:35:ARG:C	2.68	0.45
1:L:27:LYS:HZ1	1:L:35:ARG:NH2	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:114:LEU:CD1	1:L:156:ALA:HB1	2.46	0.45
1:L:160:GLY:O	1:L:317:GLY:HA3	2.16	0.45
1:M:52:ILE:CA	1:M:74:GLU:HG2	2.46	0.45
1:M:165:GLU:OE1	1:M:167:GLU:CB	2.65	0.45
1:N:184:MET:HG3	1:N:184:MET:O	2.17	0.45
1:N:222:ASN:ND2	1:N:237:ASN:ND2	2.65	0.45
1:O:160:GLY:O	1:O:317:GLY:HA3	2.17	0.45
1:O:184:MET:HG3	1:O:184:MET:O	2.17	0.45
1:O:300:TYR:C	1:P:227:THR:CG2	2.66	0.45
1:P:35:ARG:HH22	1:P:316:GLU:HG2	1.81	0.45
1:P:95:THR:HG21	1:P:136:ILE:HG21	1.97	0.45
1:P:181:GLY:HA2	1:P:206:VAL:CG1	2.31	0.45
1:P:184:MET:HG3	1:P:184:MET:O	2.17	0.45
1:A:246:ILE:CG1	1:F:320:LYS:CA	2.88	0.45
1:A:285:ILE:C	1:A:289:THR:OG1	2.55	0.45
1:B:22:ILE:HB	1:B:27:LYS:HE3	1.96	0.45
1:B:43:TYR:CE2	1:B:70:GLU:OE1	2.69	0.45
1:B:173:ASN:ND2	1:B:279:LEU:CD2	2.70	0.45
1:C:49:TYR:CZ	1:D:320:LYS:HD3	2.51	0.45
1:C:127:ARG:HG2	1:C:154:ILE:HD12	1.98	0.45
1:C:165:GLU:OE1	1:C:167:GLU:CB	2.65	0.45
1:C:306:ILE:HD12	1:C:307:THR:N	2.29	0.45
1:G:112:CYS:HG	1:G:122:ALA:HB1	1.82	0.45
1:G:165:GLU:OE1	1:G:167:GLU:CB	2.65	0.45
1:G:222:ASN:ND2	1:G:237:ASN:ND2	2.65	0.45
1:H:184:MET:HG3	1:H:184:MET:O	2.17	0.45
1:H:285:ILE:C	1:H:289:THR:OG1	2.55	0.45
1:I:43:TYR:CD1	1:I:67:LEU:HB3	2.50	0.45
1:I:306:ILE:HD12	1:I:307:THR:N	2.29	0.45
1:J:241:LYS:CB	1:N:308:ASN:HD21	2.29	0.45
1:J:320:LYS:O	1:O:246:ILE:CD1	2.58	0.45
1:K:213:VAL:HB	1:K:235:LEU:HD13	1.99	0.45
1:L:74:GLU:CA	1:P:245:GLU:O	2.65	0.45
1:L:213:VAL:HB	1:L:235:LEU:HD13	1.99	0.45
1:L:222:ASN:ND2	1:L:237:ASN:ND2	2.65	0.45
1:N:98:LEU:HD21	1:N:104:ASN:HB3	1.98	0.45
1:O:170:LYS:CD	1:P:78:GLU:C	2.78	0.45
1:P:160:GLY:O	1:P:317:GLY:HA3	2.16	0.45
1:P:164:LEU:HD13	1:P:313:THR:CA	2.40	0.45
1:P:219:ASP:C	1:P:224:ASN:CB	2.82	0.45
1:A:114:LEU:CD1	1:A:156:ALA:HB1	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:66:TYR:CE2	1:B:88:LEU:HD22	2.50	0.45
1:B:109:VAL:CG2	1:B:321:VAL:HG13	2.46	0.45
1:B:127:ARG:HG2	1:B:154:ILE:HD12	1.98	0.45
1:B:152:ILE:C	1:B:153:THR:HG23	2.37	0.45
1:B:165:GLU:OE1	1:B:167:GLU:CB	2.65	0.45
1:B:181:GLY:HA2	1:B:206:VAL:CG1	2.31	0.45
1:B:245:GLU:O	1:F:52:ILE:CG1	2.61	0.45
1:C:98:LEU:HD21	1:C:104:ASN:HB3	1.98	0.45
1:C:114:LEU:CD1	1:C:156:ALA:HB1	2.46	0.45
1:D:133:ASN:HD22	1:D:148:GLU:CA	2.11	0.45
1:D:209:LEU:O	1:D:213:VAL:HG23	2.16	0.45
1:E:39:LYS:HE2	1:E:41:LYS:HD2	1.97	0.45
1:E:213:VAL:HB	1:E:235:LEU:HD13	1.99	0.45
1:E:285:ILE:C	1:E:289:THR:OG1	2.55	0.45
1:H:219:ASP:C	1:H:224:ASN:CB	2.82	0.45
1:I:160:GLY:O	1:I:317:GLY:HA3	2.16	0.45
1:I:209:LEU:O	1:I:213:VAL:HG23	2.16	0.45
1:I:222:ASN:CB	1:I:237:ASN:CB	2.90	0.45
1:K:43:TYR:CD1	1:K:67:LEU:HB3	2.50	0.45
1:K:208:ASP:HA	1:K:211:ILE:HD11	1.99	0.45
1:K:307:THR:O	1:P:230:GLN:CB	2.50	0.45
1:L:116:VAL:HG21	1:L:121:LYS:HG3	1.98	0.45
1:L:165:GLU:OE1	1:L:167:GLU:CB	2.65	0.45
1:L:184:MET:HG3	1:L:184:MET:O	2.17	0.45
1:M:100:SER:HB3	1:M:101:ASN:HB2	1.99	0.45
1:M:159:SER:OG	1:M:163:PHE:CE1	2.67	0.45
1:M:285:ILE:C	1:M:289:THR:OG1	2.55	0.45
1:M:320:LYS:HG2	1:N:50:ILE:CB	2.47	0.45
1:N:100:SER:HB3	1:N:101:ASN:HB2	1.99	0.45
1:N:165:GLU:OE1	1:N:167:GLU:CB	2.65	0.45
1:N:208:ASP:HA	1:N:211:ILE:HD11	1.99	0.45
1:O:109:VAL:CG2	1:O:321:VAL:HG13	2.46	0.45
1:O:159:SER:OG	1:O:163:PHE:CE1	2.67	0.45
1:O:214:GLY:N	1:O:235:LEU:HD11	2.31	0.45
1:O:320:LYS:HD3	1:P:49:TYR:CE2	2.52	0.45
1:P:165:GLU:OE1	1:P:167:GLU:CB	2.65	0.45
1:A:152:ILE:C	1:A:153:THR:HG23	2.37	0.45
1:C:177:ILE:CG1	1:C:284:PHE:HA	2.46	0.45
1:D:43:TYR:CD2	1:D:67:LEU:CB	2.95	0.45
1:D:213:VAL:HB	1:D:235:LEU:HD13	1.99	0.45
1:D:222:ASN:ND2	1:D:237:ASN:ND2	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:284:PHE:HE2	1:D:296:ILE:HG12	1.74	0.45
1:E:35:ARG:HH22	1:E:316:GLU:HG2	1.81	0.45
1:F:49:TYR:HE1	1:G:320:LYS:CB	2.20	0.45
1:F:61:LEU:HD23	1:F:62:ASP:HB2	1.99	0.45
1:G:203:GLU:CD	1:J:198:GLU:HG2	2.35	0.45
1:G:208:ASP:HA	1:G:211:ILE:HD11	1.99	0.45
1:G:222:ASN:CB	1:G:237:ASN:CB	2.90	0.45
1:H:27:LYS:HZ1	1:H:35:ARG:HE	1.62	0.45
1:H:43:TYR:CE2	1:H:70:GLU:OE1	2.69	0.45
1:H:60:GLU:N	1:H:137:THR:HG22	2.32	0.45
1:H:123:LYS:HZ1	1:H:127:ARG:HH12	1.65	0.45
1:H:203:GLU:OE1	1:K:274:PHE:CE2	2.65	0.45
1:I:184:MET:HG3	1:I:184:MET:O	2.17	0.45
1:J:184:MET:HG3	1:J:184:MET:O	2.17	0.45
1:J:208:ASP:HA	1:J:211:ILE:HD11	1.99	0.45
1:K:7:GLU:C	1:K:326:TYR:CE1	2.87	0.45
1:K:114:LEU:CD1	1:K:156:ALA:HB1	2.46	0.45
1:K:184:MET:HG3	1:K:184:MET:O	2.17	0.45
1:L:112:CYS:HG	1:L:122:ALA:HB1	1.82	0.45
1:M:98:LEU:HD21	1:M:104:ASN:HB3	1.98	0.45
1:M:127:ARG:HG2	1:M:154:ILE:HD12	1.98	0.45
1:M:184:MET:HG3	1:M:184:MET:O	2.17	0.45
1:O:219:ASP:C	1:O:224:ASN:CB	2.82	0.45
1:O:222:ASN:CB	1:O:237:ASN:CB	2.90	0.45
1:P:116:VAL:CG2	1:P:121:LYS:HZ2	2.29	0.45
1:P:208:ASP:HA	1:P:211:ILE:HD11	1.99	0.45
1:A:22:ILE:HB	1:A:27:LYS:HE3	1.96	0.45
1:A:98:LEU:HD21	1:A:104:ASN:HB3	1.98	0.45
1:A:184:MET:HG3	1:A:184:MET:O	2.17	0.45
1:B:7:GLU:HB2	1:B:107:GLN:HE22	1.82	0.45
1:B:285:ILE:C	1:B:289:THR:OG1	2.55	0.45
1:C:152:ILE:C	1:C:153:THR:HG23	2.37	0.45
1:C:213:VAL:HB	1:C:235:LEU:HD13	1.99	0.45
1:D:114:LEU:CD1	1:D:156:ALA:HB1	2.46	0.45
1:D:171:ASN:HA	1:D:191:ASN:OD1	2.17	0.45
1:E:7:GLU:C	1:E:326:TYR:CE1	2.87	0.45
1:E:152:ILE:C	1:E:153:THR:HG23	2.37	0.45
1:E:208:ASP:HA	1:E:211:ILE:HD11	1.99	0.45
1:E:222:ASN:ND2	1:E:237:ASN:ND2	2.65	0.45
1:E:226:ILE:HD12	1:F:303:ASN:C	2.11	0.45
1:F:35:ARG:HH22	1:F:316:GLU:HG2	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:203:GLU:OE2	1:I:274:PHE:CZ	2.70	0.45
1:F:208:ASP:HA	1:F:211:ILE:HD11	1.99	0.45
1:G:60:GLU:N	1:G:137:THR:HG22	2.32	0.45
1:G:184:MET:HG3	1:G:184:MET:O	2.17	0.45
1:I:49:TYR:CA	1:M:246:ILE:HD11	2.44	0.45
1:I:100:SER:HB3	1:I:101:ASN:HB2	1.99	0.45
1:I:208:ASP:HA	1:I:211:ILE:HD11	1.99	0.45
1:I:222:ASN:ND2	1:I:237:ASN:ND2	2.65	0.45
1:J:36:VAL:N	1:J:312:TRP:CH2	2.80	0.45
1:J:116:VAL:HG21	1:J:121:LYS:HG3	1.98	0.45
1:K:39:LYS:HE2	1:K:41:LYS:HD2	1.97	0.45
1:K:116:VAL:HG21	1:K:121:LYS:HG3	1.98	0.45
1:K:160:GLY:O	1:K:317:GLY:HA3	2.16	0.45
1:K:165:GLU:OE1	1:K:167:GLU:CB	2.65	0.45
1:L:208:ASP:HA	1:L:211:ILE:HD11	1.99	0.45
1:M:208:ASP:HA	1:M:211:ILE:HD11	1.99	0.45
1:M:222:ASN:ND2	1:M:237:ASN:ND2	2.65	0.45
1:N:320:LYS:HG2	1:O:50:ILE:CB	2.47	0.45
1:N:320:LYS:NZ	1:O:50:ILE:CG1	2.72	0.45
1:O:35:ARG:HH22	1:O:316:GLU:HG2	1.81	0.45
1:O:123:LYS:HZ3	1:O:127:ARG:NH1	2.14	0.45
1:O:208:ASP:HA	1:O:211:ILE:HD11	1.99	0.45
1:O:285:ILE:C	1:O:289:THR:OG1	2.55	0.45
1:P:213:VAL:HB	1:P:235:LEU:HD13	1.99	0.45
1:A:81:LYS:HB3	1:B:170:LYS:CE	2.48	0.44
1:B:177:ILE:CG1	1:B:284:PHE:HA	2.46	0.44
1:C:45:LEU:CB	1:C:67:LEU:HD11	2.40	0.44
1:D:177:ILE:CG1	1:D:284:PHE:HA	2.46	0.44
1:E:27:LYS:HE2	1:E:35:ARG:CG	2.34	0.44
1:E:184:MET:HG3	1:E:184:MET:O	2.17	0.44
1:F:171:ASN:HA	1:F:191:ASN:OD1	2.17	0.44
1:F:217:LEU:CD2	1:G:278:GLN:OE1	2.64	0.44
1:F:285:ILE:C	1:F:289:THR:OG1	2.55	0.44
1:G:123:LYS:HZ1	1:G:127:ARG:HH12	1.65	0.44
1:H:222:ASN:ND2	1:H:237:ASN:ND2	2.65	0.44
1:I:34:LYS:N	1:I:35:ARG:C	2.68	0.44
1:I:58:LYS:HZ2	1:I:65:GLU:CG	2.30	0.44
1:I:61:LEU:HD23	1:I:62:ASP:HB2	1.99	0.44
1:I:116:VAL:HG21	1:I:121:LYS:HG3	1.98	0.44
1:J:100:SER:HB3	1:J:101:ASN:HB2	1.99	0.44
1:J:323:VAL:CA	1:K:49:TYR:C	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:52:ILE:CG1	1:P:247:ASP:N	2.71	0.44
1:L:60:GLU:N	1:L:137:THR:HG22	2.32	0.44
1:M:123:LYS:HZ3	1:M:127:ARG:NH1	2.15	0.44
1:N:7:GLU:HB2	1:N:107:GLN:HE22	1.82	0.44
1:N:43:TYR:HH	1:N:56:SER:HG	1.62	0.44
1:N:152:ILE:C	1:N:153:THR:HG23	2.37	0.44
1:O:320:LYS:HG2	1:P:50:ILE:CB	2.47	0.44
1:P:256:LYS:HA	1:P:256:LYS:CE	2.28	0.44
1:A:95:THR:HG21	1:A:136:ILE:HG21	1.96	0.44
1:A:160:GLY:O	1:A:317:GLY:HA3	2.16	0.44
1:A:222:ASN:ND2	1:A:237:ASN:ND2	2.65	0.44
1:B:220:LEU:O	1:B:221:ASN:O	2.35	0.44
1:C:7:GLU:HB2	1:C:107:GLN:HE22	1.82	0.44
1:C:11:THR:HG23	1:C:318:LEU:CB	2.44	0.44
1:C:49:TYR:CE2	1:D:320:LYS:HD3	2.52	0.44
1:C:248:THR:CG2	1:G:52:ILE:HA	2.47	0.44
1:C:284:PHE:HE2	1:C:296:ILE:HG12	1.74	0.44
1:D:285:ILE:C	1:D:289:THR:OG1	2.55	0.44
1:F:22:ILE:HB	1:F:27:LYS:HE3	1.96	0.44
1:F:27:LYS:HZ1	1:F:35:ARG:HH21	1.65	0.44
1:F:272:ARG:HA	1:I:202:GLU:CD	2.36	0.44
1:G:285:ILE:C	1:G:289:THR:OG1	2.56	0.44
1:H:22:ILE:HB	1:H:27:LYS:HE3	1.96	0.44
1:H:165:GLU:OE1	1:H:167:GLU:CB	2.65	0.44
1:H:271:LYS:HE2	1:K:268:LEU:CD2	2.46	0.44
1:H:272:ARG:CA	1:K:202:GLU:HG2	2.48	0.44
1:I:285:ILE:C	1:I:289:THR:OG1	2.55	0.44
1:J:61:LEU:HD23	1:J:62:ASP:HB2	1.99	0.44
1:K:7:GLU:HB2	1:K:107:GLN:HE22	1.82	0.44
1:K:50:ILE:HD12	1:O:246:ILE:C	2.37	0.44
1:K:60:GLU:N	1:K:137:THR:HG22	2.32	0.44
1:K:100:SER:HB3	1:K:101:ASN:HB2	1.99	0.44
1:L:11:THR:HG23	1:L:318:LEU:CB	2.44	0.44
1:L:44:ASN:HB2	1:L:64:LYS:NZ	2.26	0.44
1:M:320:LYS:HD3	1:N:49:TYR:CE2	2.52	0.44
1:N:149:ILE:HD13	1:N:149:ILE:HG21	1.74	0.44
1:O:152:ILE:C	1:O:153:THR:HG23	2.37	0.44
1:P:285:ILE:C	1:P:289:THR:OG1	2.55	0.44
1:A:50:ILE:CB	1:B:320:LYS:HG2	2.47	0.44
1:A:127:ARG:HG2	1:A:154:ILE:HD12	1.98	0.44
1:A:177:ILE:CG1	1:A:284:PHE:HA	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:284:PHE:CE2	1:A:296:ILE:CG2	2.95	0.44
1:B:213:VAL:HB	1:B:235:LEU:HD13	1.99	0.44
1:B:240:MET:HE1	1:F:73:VAL:HG11	1.98	0.44
1:C:220:LEU:O	1:C:221:ASN:O	2.35	0.44
1:D:165:GLU:OE1	1:D:167:GLU:CB	2.65	0.44
1:D:220:LEU:O	1:D:221:ASN:O	2.35	0.44
1:E:43:TYR:CD2	1:E:67:LEU:CB	2.95	0.44
1:E:43:TYR:CD2	1:E:67:LEU:CD1	3.01	0.44
1:F:152:ILE:C	1:F:153:THR:HG23	2.37	0.44
1:F:184:MET:HG3	1:F:184:MET:O	2.17	0.44
1:F:214:GLY:N	1:F:235:LEU:HD11	2.31	0.44
1:G:7:GLU:C	1:G:326:TYR:CE1	2.87	0.44
1:G:217:LEU:CD2	1:H:278:GLN:OE1	2.64	0.44
1:H:7:GLU:HB2	1:H:107:GLN:HE22	1.82	0.44
1:H:183:ASN:HD21	1:K:197:SER:CA	2.26	0.44
1:I:74:GLU:CA	1:M:245:GLU:O	2.54	0.44
1:K:32:ASP:HB3	1:K:34:LYS:HD2	1.93	0.44
1:K:43:TYR:CD2	1:K:67:LEU:CD1	3.01	0.44
1:K:285:ILE:C	1:K:289:THR:OG1	2.55	0.44
1:N:60:GLU:N	1:N:137:THR:HG22	2.32	0.44
1:N:306:ILE:HD12	1:N:307:THR:N	2.29	0.44
1:O:7:GLU:HB2	1:O:107:GLN:HE22	1.82	0.44
1:O:32:ASP:HB3	1:O:34:LYS:HD2	1.93	0.44
1:O:43:TYR:CD2	1:O:67:LEU:CB	2.95	0.44
1:O:43:TYR:HH	1:O:56:SER:HG	1.62	0.44
1:O:100:SER:HB3	1:O:101:ASN:HB2	1.99	0.44
1:O:213:VAL:HB	1:O:235:LEU:HD13	1.99	0.44
1:A:173:ASN:ND2	1:A:279:LEU:CD2	2.70	0.44
1:A:220:LEU:O	1:A:221:ASN:O	2.35	0.44
1:A:246:ILE:CG1	1:E:49:TYR:CD2	3.01	0.44
1:A:256:LYS:HA	1:A:256:LYS:CE	2.28	0.44
1:B:81:LYS:HB3	1:C:170:LYS:CE	2.48	0.44
1:C:81:LYS:HB3	1:D:170:LYS:CE	2.47	0.44
1:C:160:GLY:O	1:C:317:GLY:HA3	2.16	0.44
1:C:184:MET:HG3	1:C:184:MET:O	2.17	0.44
1:C:248:THR:CG2	1:G:52:ILE:HG23	2.47	0.44
1:D:164:LEU:HD13	1:D:313:THR:CA	2.40	0.44
1:E:179:PHE:HB2	1:E:288:THR:HB	1.93	0.44
1:G:27:LYS:HZ1	1:G:35:ARG:HH21	1.64	0.44
1:G:35:ARG:HH22	1:G:316:GLU:HG2	1.81	0.44
1:G:43:TYR:CD2	1:G:67:LEU:CB	2.95	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:209:LEU:O	1:H:213:VAL:HG23	2.16	0.44
1:J:60:GLU:N	1:J:137:THR:HG22	2.32	0.44
1:K:61:LEU:HD23	1:K:62:ASP:HB2	1.99	0.44
1:K:152:ILE:C	1:K:153:THR:HG23	2.37	0.44
1:L:7:GLU:HB2	1:L:107:GLN:HE22	1.82	0.44
1:L:100:SER:HB3	1:L:101:ASN:HB2	1.99	0.44
1:L:109:VAL:CG2	1:L:321:VAL:HG13	2.46	0.44
1:M:152:ILE:C	1:M:153:THR:HG23	2.37	0.44
1:N:213:VAL:HB	1:N:235:LEU:HD13	1.99	0.44
1:N:284:PHE:CZ	1:N:304:SER:OG	2.68	0.44
1:N:320:LYS:HD3	1:O:49:TYR:CZ	2.51	0.44
1:O:220:LEU:O	1:O:221:ASN:O	2.35	0.44
1:P:100:SER:HB3	1:P:101:ASN:HB2	1.99	0.44
1:P:222:ASN:ND2	1:P:237:ASN:ND2	2.65	0.44
1:P:284:PHE:CE2	1:P:296:ILE:CG2	2.95	0.44
1:A:61:LEU:HD23	1:A:62:ASP:HB2	1.99	0.44
1:A:181:GLY:HA2	1:A:206:VAL:CG1	2.31	0.44
1:A:241:LYS:CG	1:F:166:GLN:NE2	2.79	0.44
1:B:98:LEU:HD21	1:B:104:ASN:HB3	1.98	0.44
1:B:160:GLY:O	1:B:317:GLY:HA3	2.16	0.44
1:B:184:MET:HG3	1:B:184:MET:O	2.17	0.44
1:C:43:TYR:CD2	1:C:67:LEU:CD1	3.01	0.44
1:C:116:VAL:HG21	1:C:121:LYS:HZ2	1.81	0.44
1:C:285:ILE:C	1:C:289:THR:OG1	2.55	0.44
1:D:184:MET:HG3	1:D:184:MET:O	2.17	0.44
1:E:171:ASN:HA	1:E:191:ASN:OD1	2.17	0.44
1:F:272:ARG:CA	1:I:202:GLU:OE2	2.57	0.44
1:G:7:GLU:HB2	1:G:107:GLN:HE22	1.82	0.44
1:G:36:VAL:N	1:G:312:TRP:CH2	2.80	0.44
1:G:61:LEU:HD23	1:G:62:ASP:HB2	1.99	0.44
1:G:209:LEU:O	1:G:213:VAL:HG23	2.16	0.44
1:H:35:ARG:HH22	1:H:316:GLU:HG2	1.81	0.44
1:I:43:TYR:CD2	1:I:67:LEU:CD1	3.01	0.44
1:I:278:GLN:OE1	1:J:217:LEU:CD2	2.64	0.44
1:J:278:GLN:OE1	1:K:217:LEU:CD2	2.64	0.44
1:J:296:ILE:O	1:J:296:ILE:HG13	2.18	0.44
1:K:308:ASN:O	1:P:229:GLU:OE1	2.36	0.44
1:N:35:ARG:HH22	1:N:316:GLU:HG2	1.81	0.44
1:N:220:LEU:O	1:N:221:ASN:O	2.35	0.44
1:O:43:TYR:CE2	1:O:67:LEU:CG	3.01	0.44
1:O:284:PHE:CZ	1:O:304:SER:OG	2.68	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:302:ASN:HB2	1:P:226:ILE:HG12	1.16	0.44
1:P:43:TYR:CE2	1:P:67:LEU:CG	3.01	0.44
1:P:152:ILE:C	1:P:153:THR:HG23	2.37	0.44
1:P:220:LEU:O	1:P:221:ASN:O	2.35	0.44
1:A:43:TYR:CD2	1:A:67:LEU:CB	2.95	0.44
1:A:44:ASN:HB2	1:A:64:LYS:NZ	2.26	0.44
1:B:50:ILE:CB	1:C:320:LYS:HG2	2.47	0.44
1:B:52:ILE:HD13	1:G:245:GLU:OE2	2.17	0.44
1:B:58:LYS:HZ2	1:B:65:GLU:CG	2.31	0.44
1:B:95:THR:HG21	1:B:136:ILE:HG21	1.97	0.44
1:B:113:PRO:O	1:B:116:VAL:HG12	2.18	0.44
1:B:246:ILE:CA	1:F:52:ILE:HG12	2.47	0.44
1:B:248:THR:CG2	1:F:52:ILE:CD1	2.95	0.44
1:C:171:ASN:HA	1:C:191:ASN:OD1	2.17	0.44
1:D:60:GLU:N	1:D:137:THR:HG22	2.32	0.44
1:D:152:ILE:C	1:D:153:THR:HG23	2.37	0.44
1:D:246:ILE:N	1:H:49:TYR:CZ	2.80	0.44
1:G:233:SER:HB3	1:H:277:ASP:OD2	2.18	0.44
1:H:152:ILE:C	1:H:153:THR:HG23	2.37	0.44
1:H:183:ASN:CG	1:K:197:SER:CB	2.85	0.44
1:I:49:TYR:C	1:M:246:ILE:HD11	1.91	0.44
1:I:60:GLU:N	1:I:137:THR:HG22	2.32	0.44
1:I:78:GLU:OE1	1:M:245:GLU:OE2	2.35	0.44
1:J:219:ASP:OD1	1:J:225:LEU:HG	2.11	0.44
1:K:109:VAL:CG2	1:K:321:VAL:HG13	2.46	0.44
1:K:113:PRO:O	1:K:116:VAL:HG12	2.18	0.44
1:K:222:ASN:ND2	1:K:237:ASN:ND2	2.65	0.44
1:K:278:GLN:OE1	1:L:217:LEU:CD2	2.65	0.44
1:L:152:ILE:C	1:L:153:THR:HG23	2.37	0.44
1:M:213:VAL:HB	1:M:235:LEU:HD13	1.99	0.44
1:M:220:LEU:O	1:M:221:ASN:O	2.35	0.44
1:N:43:TYR:CE2	1:N:67:LEU:CG	3.01	0.44
1:N:113:PRO:O	1:N:116:VAL:HG12	2.18	0.44
1:N:320:LYS:HD3	1:O:49:TYR:CE2	2.52	0.44
1:O:165:GLU:OE1	1:O:167:GLU:CB	2.65	0.44
1:P:34:LYS:H	1:P:35:ARG:HB2	1.79	0.44
1:A:165:GLU:OE1	1:A:167:GLU:CB	2.65	0.44
1:A:213:VAL:HB	1:A:235:LEU:HD13	1.99	0.44
1:B:61:LEU:HD23	1:B:62:ASP:HB2	1.99	0.44
1:C:45:LEU:CD2	1:C:58:LYS:HZ3	2.30	0.44
1:C:164:LEU:HD13	1:C:313:THR:CA	2.40	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:240:MET:CA	1:H:166:GLN:CG	2.91	0.44
1:C:240:MET:HE1	1:G:73:VAL:CG2	2.29	0.44
1:D:113:PRO:O	1:D:116:VAL:HG12	2.18	0.44
1:D:157:GLU:HG3	1:D:158:GLY:N	2.33	0.44
1:E:7:GLU:HB2	1:E:107:GLN:HE22	1.82	0.44
1:E:233:SER:HB3	1:F:277:ASP:OD2	2.18	0.44
1:F:46:GLU:HG3	1:G:324:ALA:CA	2.39	0.44
1:F:165:GLU:OE1	1:F:167:GLU:CB	2.65	0.44
1:F:222:ASN:ND2	1:F:237:ASN:ND2	2.65	0.44
1:G:43:TYR:CD2	1:G:67:LEU:CD1	3.01	0.44
1:G:49:TYR:HE1	1:H:320:LYS:CB	2.20	0.44
1:I:27:LYS:HE2	1:I:35:ARG:CG	2.34	0.44
1:K:44:ASN:HB2	1:K:64:LYS:NZ	2.26	0.44
1:L:43:TYR:CD2	1:L:67:LEU:CD1	3.01	0.44
1:L:113:PRO:O	1:L:116:VAL:HG12	2.18	0.44
1:M:61:LEU:HD23	1:M:62:ASP:HB2	1.99	0.44
1:M:170:LYS:CD	1:N:78:GLU:C	2.78	0.44
1:M:171:ASN:HA	1:M:191:ASN:OD1	2.17	0.44
1:O:171:ASN:HA	1:O:191:ASN:OD1	2.17	0.44
1:O:296:ILE:O	1:O:296:ILE:HG13	2.18	0.44
1:P:171:ASN:HA	1:P:191:ASN:OD1	2.17	0.44
1:A:43:TYR:CE2	1:A:67:LEU:CG	3.01	0.44
1:B:123:LYS:HE2	1:B:127:ARG:NH2	2.33	0.44
1:C:60:GLU:N	1:C:137:THR:HG22	2.32	0.44
1:C:244:GLY:HA2	1:H:320:LYS:HD2	1.24	0.44
1:D:100:SER:HB3	1:D:101:ASN:HB2	1.99	0.44
1:D:116:VAL:HG21	1:D:121:LYS:HG3	1.98	0.44
1:E:100:SER:HB3	1:E:101:ASN:HB2	1.99	0.44
1:F:58:LYS:HZ2	1:F:65:GLU:CG	2.30	0.44
1:F:183:ASN:HD21	1:I:197:SER:CB	2.17	0.44
1:I:36:VAL:N	1:I:312:TRP:CH2	2.80	0.44
1:I:165:GLU:OE1	1:I:167:GLU:CB	2.65	0.44
1:I:220:LEU:O	1:I:221:ASN:O	2.35	0.44
1:J:7:GLU:HB2	1:J:107:GLN:HE22	1.82	0.44
1:J:43:TYR:CD2	1:J:67:LEU:CD1	3.01	0.44
1:J:152:ILE:C	1:J:153:THR:HG23	2.37	0.44
1:J:220:LEU:O	1:J:221:ASN:O	2.35	0.44
1:J:285:ILE:C	1:J:289:THR:OG1	2.56	0.44
1:K:43:TYR:CE2	1:K:67:LEU:CG	3.01	0.44
1:K:220:LEU:O	1:K:221:ASN:O	2.35	0.44
1:K:296:ILE:O	1:K:296:ILE:HG13	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:323:VAL:CA	1:L:49:TYR:C	2.53	0.44
1:L:220:LEU:O	1:L:221:ASN:O	2.35	0.44
1:M:43:TYR:CE2	1:M:67:LEU:CG	3.01	0.44
1:N:11:THR:HG23	1:N:318:LEU:CB	2.44	0.44
1:N:170:LYS:CE	1:O:81:LYS:HB3	2.48	0.44
1:N:171:ASN:HA	1:N:191:ASN:OD1	2.17	0.44
1:N:300:TYR:HA	1:O:227:THR:CB	2.46	0.44
1:N:320:LYS:CG	1:O:49:TYR:C	2.21	0.44
1:O:131:LYS:HD2	1:O:149:ILE:HD11	1.99	0.44
1:P:296:ILE:O	1:P:296:ILE:HG13	2.18	0.44
1:A:7:GLU:HB2	1:A:107:GLN:HE22	1.82	0.44
1:A:109:VAL:CG2	1:A:321:VAL:HG13	2.46	0.44
1:B:43:TYR:CD2	1:B:67:LEU:CD1	3.01	0.44
1:C:50:ILE:CB	1:D:320:LYS:HG2	2.47	0.44
1:C:157:GLU:HG3	1:C:158:GLY:N	2.33	0.44
1:E:46:GLU:H	1:F:324:ALA:HB1	1.83	0.44
1:E:48:GLY:N	1:F:324:ALA:N	2.63	0.44
1:E:220:LEU:O	1:E:221:ASN:O	2.35	0.44
1:E:296:ILE:O	1:E:296:ILE:HG13	2.18	0.44
1:F:157:GLU:HG3	1:F:158:GLY:N	2.33	0.44
1:F:198:GLU:HG3	1:I:203:GLU:HG3	0.56	0.44
1:F:209:LEU:O	1:F:213:VAL:HG23	2.17	0.44
1:F:233:SER:HB3	1:G:277:ASP:OD2	2.18	0.44
1:G:22:ILE:HB	1:G:27:LYS:HE3	1.96	0.44
1:G:173:ASN:ND2	1:G:279:LEU:CD2	2.70	0.44
1:G:227:THR:CG2	1:H:300:TYR:H	2.31	0.44
1:H:268:LEU:HD22	1:K:271:LYS:HZ1	1.83	0.44
1:I:109:VAL:CG2	1:I:321:VAL:HG13	2.46	0.44
1:I:241:LYS:HB2	1:M:308:ASN:HD21	1.81	0.44
1:J:160:GLY:O	1:J:317:GLY:HA3	2.16	0.44
1:J:250:SER:CB	1:J:253:VAL:HB	2.25	0.44
1:K:157:GLU:HG3	1:K:158:GLY:N	2.33	0.44
1:K:277:ASP:OD2	1:L:233:SER:HB3	2.18	0.44
1:L:22:ILE:HB	1:L:27:LYS:HE3	1.96	0.44
1:M:35:ARG:HH22	1:M:316:GLU:HG2	1.81	0.44
1:M:170:LYS:CE	1:N:81:LYS:HB3	2.48	0.44
1:M:219:ASP:HA	1:M:224:ASN:CG	2.36	0.44
1:M:296:ILE:O	1:M:296:ILE:HG13	2.18	0.44
1:N:296:ILE:O	1:N:296:ILE:HG13	2.18	0.44
1:N:302:ASN:HB2	1:O:226:ILE:HG12	1.16	0.44
1:O:123:LYS:HE2	1:O:127:ARG:NH2	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:170:LYS:CE	1:P:81:LYS:HB3	2.47	0.44
1:O:320:LYS:NZ	1:P:49:TYR:CE1	2.74	0.44
1:P:123:LYS:HE2	1:P:127:ARG:NH2	2.33	0.44
1:A:50:ILE:CG1	1:B:320:LYS:NZ	2.72	0.43
1:B:78:GLU:C	1:C:170:LYS:CD	2.78	0.43
1:C:87:LYS:HD3	1:C:129:TYR:CE2	2.53	0.43
1:C:119:ASN:CG	1:C:120:ALA:N	2.72	0.43
1:C:123:LYS:HE2	1:C:127:ARG:NH2	2.33	0.43
1:C:222:ASN:HD22	1:C:237:ASN:HB2	1.75	0.43
1:C:230:GLN:CD	1:H:306:ILE:CG2	2.86	0.43
1:E:209:LEU:O	1:E:213:VAL:HG23	2.16	0.43
1:F:46:GLU:H	1:G:324:ALA:HB1	1.83	0.43
1:F:87:LYS:HD3	1:F:129:TYR:CE2	2.53	0.43
1:F:204:HIS:HE1	1:I:270:GLU:O	2.01	0.43
1:F:225:LEU:CA	1:G:276:LEU:O	2.64	0.43
1:F:272:ARG:HB2	1:I:202:GLU:CG	2.38	0.43
1:G:240:MET:SD	1:G:251:SER:CB	3.06	0.43
1:H:61:LEU:HD23	1:H:62:ASP:HB2	1.99	0.43
1:H:87:LYS:HD3	1:H:129:TYR:CE2	2.53	0.43
1:I:43:TYR:CD2	1:I:67:LEU:CB	2.95	0.43
1:I:52:ILE:HG12	1:M:246:ILE:HA	1.79	0.43
1:J:109:VAL:CG2	1:J:321:VAL:HG13	2.46	0.43
1:J:113:PRO:O	1:J:116:VAL:HG12	2.18	0.43
1:J:157:GLU:HG3	1:J:158:GLY:N	2.33	0.43
1:J:300:TYR:HB3	1:K:227:THR:H	1.59	0.43
1:J:324:ALA:HB1	1:K:46:GLU:H	1.83	0.43
1:K:320:LYS:HE2	1:P:247:ASP:CG	2.38	0.43
1:L:43:TYR:CE2	1:L:67:LEU:CG	3.01	0.43
1:L:285:ILE:C	1:L:289:THR:OG1	2.55	0.43
1:M:7:GLU:HB2	1:M:107:GLN:HE22	1.82	0.43
1:N:123:LYS:HE2	1:N:127:ARG:NH2	2.33	0.43
1:O:60:GLU:N	1:O:137:THR:HG22	2.32	0.43
1:O:61:LEU:HD23	1:O:62:ASP:HB2	1.99	0.43
1:P:32:ASP:HB3	1:P:34:LYS:HD2	1.93	0.43
1:P:60:GLU:N	1:P:137:THR:HG22	2.32	0.43
1:P:61:LEU:HD23	1:P:62:ASP:HB2	1.99	0.43
1:P:113:PRO:O	1:P:116:VAL:HG12	2.18	0.43
1:P:116:VAL:HG21	1:P:121:LYS:HZ2	1.83	0.43
1:A:26:LYS:CG	1:A:97:VAL:HG22	2.48	0.43
1:A:58:LYS:HZ2	1:A:65:GLU:CG	2.31	0.43
1:A:123:LYS:HE2	1:A:127:ARG:NH2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:49:TYR:CE1	1:C:320:LYS:HD2	2.36	0.43
1:B:60:GLU:N	1:B:137:THR:HG22	2.32	0.43
1:B:171:ASN:HA	1:B:191:ASN:OD1	2.17	0.43
1:B:208:ASP:HA	1:B:211:ILE:HD11	1.99	0.43
1:B:222:ASN:HD22	1:B:237:ASN:HB2	1.75	0.43
1:B:248:THR:CA	1:F:52:ILE:HD12	2.44	0.43
1:C:100:SER:HB3	1:C:101:ASN:HB2	1.99	0.43
1:C:109:VAL:CG2	1:C:321:VAL:HG13	2.46	0.43
1:C:116:VAL:HG21	1:C:121:LYS:HG3	1.98	0.43
1:C:198:GLU:OE2	1:C:274:PHE:CE2	2.71	0.43
1:C:208:ASP:HA	1:C:211:ILE:HD11	1.99	0.43
1:D:123:LYS:HE2	1:D:127:ARG:NH2	2.34	0.43
1:D:208:ASP:HA	1:D:211:ILE:HD11	1.99	0.43
1:E:46:GLU:HG3	1:F:324:ALA:CA	2.39	0.43
1:E:310:SER:CA	1:E:313:THR:HG23	2.47	0.43
1:F:48:GLY:N	1:G:324:ALA:N	2.63	0.43
1:F:198:GLU:OE2	1:F:274:PHE:CE2	2.71	0.43
1:F:220:LEU:O	1:F:221:ASN:O	2.35	0.43
1:F:222:ASN:CB	1:F:237:ASN:CB	2.90	0.43
1:F:310:SER:CA	1:F:313:THR:HG23	2.47	0.43
1:H:113:PRO:O	1:H:116:VAL:HG12	2.18	0.43
1:H:198:GLU:OE2	1:H:274:PHE:CE2	2.71	0.43
1:H:202:GLU:OE2	1:K:272:ARG:CA	2.62	0.43
1:H:274:PHE:CZ	1:K:203:GLU:OE2	2.72	0.43
1:H:296:ILE:O	1:H:296:ILE:HG13	2.18	0.43
1:I:7:GLU:HB2	1:I:107:GLN:HE22	1.82	0.43
1:I:43:TYR:CE2	1:I:67:LEU:CG	3.01	0.43
1:J:43:TYR:CE2	1:J:67:LEU:CG	3.01	0.43
1:J:87:LYS:HD3	1:J:129:TYR:CE2	2.53	0.43
1:J:203:GLU:O	1:J:204:HIS:CD2	2.72	0.43
1:J:305:ILE:HG22	1:O:241:LYS:CE	2.47	0.43
1:K:240:MET:SD	1:K:251:SER:CB	3.07	0.43
1:L:123:LYS:HZ1	1:L:127:ARG:HH12	1.64	0.43
1:L:203:GLU:O	1:L:204:HIS:CD2	2.72	0.43
1:M:43:TYR:CD2	1:M:67:LEU:CB	2.95	0.43
1:M:116:VAL:HG21	1:M:121:LYS:HG3	1.98	0.43
1:N:320:LYS:NZ	1:O:49:TYR:CE1	2.74	0.43
1:O:163:PHE:HA	1:P:76:SER:HG	1.80	0.43
1:P:7:GLU:HB2	1:P:107:GLN:HE22	1.82	0.43
1:P:43:TYR:CD2	1:P:67:LEU:CD1	3.01	0.43
1:A:100:SER:HB3	1:A:101:ASN:HB2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:157:GLU:HG3	1:A:158:GLY:N	2.33	0.43
1:A:171:ASN:HA	1:A:191:ASN:OD1	2.17	0.43
1:B:50:ILE:HB	1:G:245:GLU:OE2	2.18	0.43
1:B:227:THR:CG2	1:C:300:TYR:C	2.66	0.43
1:D:198:GLU:OE2	1:D:274:PHE:CE2	2.71	0.43
1:D:203:GLU:O	1:D:204:HIS:CD2	2.72	0.43
1:D:222:ASN:HD22	1:D:237:ASN:HB2	1.75	0.43
1:E:119:ASN:CG	1:E:120:ALA:N	2.72	0.43
1:F:7:GLU:HB2	1:F:107:GLN:HE22	1.82	0.43
1:F:100:SER:HB3	1:F:101:ASN:HB2	2.00	0.43
1:F:109:VAL:HG11	1:F:318:LEU:O	2.19	0.43
1:G:43:TYR:CE2	1:G:67:LEU:CG	3.01	0.43
1:G:50:ILE:HG22	1:H:323:VAL:CB	2.33	0.43
1:G:113:PRO:O	1:G:116:VAL:HG12	2.18	0.43
1:G:198:GLU:HG2	1:J:203:GLU:CD	2.34	0.43
1:G:198:GLU:OE2	1:G:274:PHE:CE2	2.71	0.43
1:H:268:LEU:HA	1:K:268:LEU:HD21	2.00	0.43
1:H:271:LYS:HZ3	1:K:265:ALA:HA	1.79	0.43
1:I:26:LYS:CG	1:I:97:VAL:HG22	2.48	0.43
1:M:119:ASN:CG	1:M:120:ALA:N	2.72	0.43
1:M:240:MET:SD	1:M:251:SER:CB	3.07	0.43
1:M:300:TYR:HA	1:N:227:THR:CB	2.46	0.43
1:N:61:LEU:HD23	1:N:62:ASP:HB2	1.99	0.43
1:O:26:LYS:CG	1:O:97:VAL:HG22	2.48	0.43
1:O:87:LYS:HD3	1:O:129:TYR:CE2	2.53	0.43
1:O:157:GLU:HG3	1:O:158:GLY:N	2.33	0.43
1:O:306:ILE:HD12	1:O:307:THR:N	2.29	0.43
1:P:26:LYS:CG	1:P:97:VAL:HG22	2.48	0.43
1:A:119:ASN:CG	1:A:120:ALA:N	2.72	0.43
1:A:203:GLU:O	1:A:204:HIS:CD2	2.72	0.43
1:A:240:MET:SD	1:A:251:SER:CB	3.07	0.43
1:B:116:VAL:HG21	1:B:121:LYS:HG3	1.98	0.43
1:B:211:ILE:HG13	1:B:212:ARG:N	2.34	0.43
1:B:240:MET:SD	1:B:251:SER:CB	3.07	0.43
1:B:246:ILE:C	1:F:50:ILE:HD12	2.37	0.43
1:C:43:TYR:CE2	1:C:67:LEU:CG	3.01	0.43
1:C:61:LEU:HD23	1:C:62:ASP:HB2	1.99	0.43
1:C:284:PHE:CE2	1:C:296:ILE:CG2	2.95	0.43
1:D:240:MET:SD	1:D:251:SER:CB	3.07	0.43
1:E:87:LYS:HD3	1:E:129:TYR:CE2	2.53	0.43
1:E:149:ILE:HD13	1:E:149:ILE:HG21	1.74	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:113:PRO:O	1:F:116:VAL:HG12	2.18	0.43
1:F:149:ILE:HD13	1:F:149:ILE:HG21	1.74	0.43
1:F:240:MET:SD	1:F:251:SER:CB	3.07	0.43
1:F:268:LEU:CD2	1:I:271:LYS:HE2	2.48	0.43
1:G:87:LYS:HD3	1:G:129:TYR:CE2	2.53	0.43
1:G:152:ILE:C	1:G:153:THR:HG23	2.37	0.43
1:G:203:GLU:CB	1:J:198:GLU:CA	2.89	0.43
1:G:220:LEU:O	1:G:221:ASN:O	2.35	0.43
1:H:220:LEU:O	1:H:221:ASN:O	2.35	0.43
1:H:272:ARG:O	1:K:203:GLU:CB	2.44	0.43
1:H:310:SER:CA	1:H:313:THR:HG23	2.47	0.43
1:I:123:LYS:HE2	1:I:127:ARG:NH2	2.33	0.43
1:I:152:ILE:C	1:I:153:THR:HG23	2.37	0.43
1:I:277:ASP:OD2	1:J:233:SER:HB3	2.18	0.43
1:I:296:ILE:O	1:I:296:ILE:HG13	2.18	0.43
1:I:309:ASN:OD1	1:N:229:GLU:N	2.51	0.43
1:J:109:VAL:HG11	1:J:318:LEU:O	2.19	0.43
1:J:277:ASP:OD2	1:K:233:SER:HB3	2.18	0.43
1:K:87:LYS:HD3	1:K:129:TYR:CE2	2.54	0.43
1:K:123:LYS:HZ1	1:K:127:ARG:HH12	1.65	0.43
1:K:250:SER:CB	1:K:253:VAL:HB	2.25	0.43
1:L:32:ASP:HB3	1:L:34:LYS:HD2	1.93	0.43
1:L:35:ARG:HH22	1:L:316:GLU:HG2	1.81	0.43
1:L:61:LEU:HD23	1:L:62:ASP:HB2	1.99	0.43
1:L:310:SER:CA	1:L:313:THR:HG23	2.47	0.43
1:N:27:LYS:HZ1	1:N:35:ARG:HE	1.64	0.43
1:N:116:VAL:HG21	1:N:121:LYS:HG3	1.98	0.43
1:N:301:PRO:HD3	1:O:227:THR:CB	1.89	0.43
1:O:113:PRO:O	1:O:116:VAL:HG12	2.18	0.43
1:O:169:PHE:CE2	1:P:79:THR:CG2	3.02	0.43
1:P:240:MET:SD	1:P:251:SER:CB	3.07	0.43
1:A:43:TYR:CD2	1:A:67:LEU:CD1	3.01	0.43
1:A:79:THR:CG2	1:B:169:PHE:CE2	3.02	0.43
1:A:229:GLU:OE2	1:F:312:TRP:CD1	2.72	0.43
1:A:296:ILE:O	1:A:296:ILE:HG13	2.18	0.43
1:B:26:LYS:CG	1:B:97:VAL:HG22	2.48	0.43
1:B:79:THR:CG2	1:C:169:PHE:CE2	3.02	0.43
1:B:198:GLU:OE2	1:B:274:PHE:CE2	2.71	0.43
1:B:245:GLU:CB	1:F:74:GLU:C	2.70	0.43
1:B:296:ILE:O	1:B:296:ILE:HG13	2.18	0.43
1:C:24:LYS:HD3	1:C:319:TYR:CZ	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:27:LYS:HZ1	1:C:35:ARG:HE	1.64	0.43
1:E:198:GLU:OE2	1:E:274:PHE:CE2	2.71	0.43
1:E:203:GLU:O	1:E:204:HIS:CD2	2.72	0.43
1:F:123:LYS:HE2	1:F:127:ARG:NH2	2.33	0.43
1:F:173:ASN:ND2	1:F:279:LEU:CD2	2.70	0.43
1:G:100:SER:HB3	1:G:101:ASN:HB2	2.00	0.43
1:G:157:GLU:HG3	1:G:158:GLY:N	2.33	0.43
1:G:227:THR:H	1:H:300:TYR:HB3	1.59	0.43
1:H:110:LEU:HD13	1:H:126:TYR:HH	1.84	0.43
1:I:240:MET:SD	1:I:251:SER:CB	3.07	0.43
1:I:310:SER:CA	1:I:313:THR:HG23	2.47	0.43
1:J:131:LYS:HD2	1:J:149:ILE:HD11	1.99	0.43
1:J:240:MET:SD	1:J:251:SER:CB	3.06	0.43
1:K:43:TYR:CD2	1:K:67:LEU:CB	2.95	0.43
1:K:110:LEU:HD13	1:K:126:TYR:HH	1.84	0.43
1:K:312:TRP:HD1	1:P:229:GLU:OE2	2.00	0.43
1:K:324:ALA:HB1	1:L:46:GLU:H	1.83	0.43
1:M:60:GLU:N	1:M:137:THR:HG22	2.32	0.43
1:M:87:LYS:HD3	1:M:129:TYR:CE2	2.53	0.43
1:M:123:LYS:HE2	1:M:127:ARG:NH2	2.34	0.43
1:N:119:ASN:CG	1:N:120:ALA:N	2.72	0.43
1:O:211:ILE:HG13	1:O:212:ARG:N	2.34	0.43
1:P:109:VAL:CG2	1:P:318:LEU:HB3	2.48	0.43
1:P:119:ASN:CG	1:P:120:ALA:N	2.72	0.43
1:P:157:GLU:HG3	1:P:158:GLY:N	2.33	0.43
1:A:24:LYS:HD3	1:A:319:TYR:CZ	2.54	0.43
1:A:45:LEU:CB	1:A:67:LEU:HD11	2.40	0.43
1:A:60:GLU:N	1:A:137:THR:HG22	2.32	0.43
1:A:113:PRO:O	1:A:116:VAL:HG12	2.18	0.43
1:A:222:ASN:HD22	1:A:237:ASN:HB2	1.75	0.43
1:A:246:ILE:HG13	1:F:320:LYS:CA	2.48	0.43
1:A:284:PHE:HE2	1:A:296:ILE:HG12	1.74	0.43
1:B:44:ASN:HB2	1:B:64:LYS:NZ	2.26	0.43
1:B:52:ILE:CD1	1:G:245:GLU:OE2	2.66	0.43
1:B:100:SER:HB3	1:B:101:ASN:HB2	1.99	0.43
1:C:79:THR:CG2	1:D:169:PHE:CE2	3.02	0.43
1:C:227:THR:CG2	1:D:301:PRO:CD	2.93	0.43
1:D:7:GLU:HB2	1:D:107:GLN:HE22	1.82	0.43
1:D:43:TYR:CE2	1:D:67:LEU:CG	3.01	0.43
1:D:61:LEU:HD23	1:D:62:ASP:HB2	1.99	0.43
1:D:159:SER:OG	1:D:163:PHE:CE1	2.68	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:43:TYR:CE2	1:E:67:LEU:CG	3.01	0.43
1:E:109:VAL:CG2	1:E:321:VAL:HG13	2.46	0.43
1:E:113:PRO:O	1:E:116:VAL:HG12	2.18	0.43
1:F:43:TYR:CD2	1:F:67:LEU:CD1	3.01	0.43
1:F:225:LEU:HD13	1:G:276:LEU:HD12	2.00	0.43
1:G:123:LYS:HE2	1:G:127:ARG:NH2	2.34	0.43
1:G:149:ILE:HD13	1:G:149:ILE:HG21	1.74	0.43
1:G:159:SER:OG	1:G:163:PHE:CE1	2.67	0.43
1:H:109:VAL:CG2	1:H:318:LEU:HB3	2.48	0.43
1:H:119:ASN:CG	1:H:120:ALA:N	2.72	0.43
1:H:157:GLU:HG3	1:H:158:GLY:N	2.33	0.43
1:H:173:ASN:ND2	1:H:279:LEU:CD2	2.70	0.43
1:I:87:LYS:HD3	1:I:129:TYR:CE2	2.53	0.43
1:I:203:GLU:O	1:I:204:HIS:CD2	2.72	0.43
1:I:324:ALA:HB1	1:J:46:GLU:H	1.83	0.43
1:K:22:ILE:HB	1:K:27:LYS:HE3	1.96	0.43
1:K:123:LYS:HE2	1:K:127:ARG:NH2	2.33	0.43
1:K:166:GLN:HG3	1:P:240:MET:HA	1.70	0.43
1:K:203:GLU:O	1:K:204:HIS:CD2	2.72	0.43
1:L:27:LYS:HZ1	1:L:35:ARG:NE	2.17	0.43
1:L:131:LYS:HD2	1:L:149:ILE:HD11	1.99	0.43
1:L:159:SER:OG	1:L:163:PHE:CE1	2.67	0.43
1:M:7:GLU:CD	1:M:107:GLN:HE22	2.22	0.43
1:M:157:GLU:HG3	1:M:158:GLY:N	2.33	0.43
1:N:87:LYS:HD3	1:N:129:TYR:CE2	2.53	0.43
1:N:169:PHE:CE2	1:O:79:THR:CG2	3.02	0.43
1:O:240:MET:SD	1:O:251:SER:CB	3.07	0.43
1:P:109:VAL:HG11	1:P:318:LEU:O	2.19	0.43
1:P:211:ILE:HG13	1:P:212:ARG:N	2.34	0.43
1:A:87:LYS:HD3	1:A:129:TYR:CE2	2.53	0.43
1:A:116:VAL:HG21	1:A:121:LYS:HG3	1.98	0.43
1:B:24:LYS:HD3	1:B:319:TYR:CZ	2.54	0.43
1:B:179:PHE:HB2	1:B:288:THR:HB	1.93	0.43
1:C:43:TYR:CD2	1:C:67:LEU:CB	2.95	0.43
1:D:24:LYS:HD3	1:D:319:TYR:CZ	2.54	0.43
1:F:60:GLU:N	1:F:137:THR:HG22	2.32	0.43
1:F:131:LYS:HD2	1:F:149:ILE:HD11	1.99	0.43
1:F:198:GLU:HG2	1:I:203:GLU:OE1	2.18	0.43
1:G:109:VAL:CG2	1:G:318:LEU:HB3	2.48	0.43
1:G:109:VAL:CG2	1:G:321:VAL:HG13	2.46	0.43
1:G:131:LYS:HD2	1:G:149:ILE:HD11	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:183:ASN:CG	1:K:197:SER:HB3	2.37	0.43
1:I:131:LYS:HD2	1:I:149:ILE:HD11	1.99	0.43
1:I:276:LEU:O	1:J:225:LEU:CA	2.64	0.43
1:I:320:LYS:C	1:N:246:ILE:HD11	2.39	0.43
1:J:27:LYS:HE2	1:J:35:ARG:CG	2.34	0.43
1:K:131:LYS:HD2	1:K:149:ILE:HD11	1.99	0.43
1:K:198:GLU:OE2	1:K:274:PHE:CE2	2.71	0.43
1:L:110:LEU:CA	1:L:318:LEU:HD13	2.36	0.43
1:L:123:LYS:HE2	1:L:127:ARG:NH2	2.34	0.43
1:L:250:SER:CB	1:L:253:VAL:HB	2.25	0.43
1:L:296:ILE:O	1:L:296:ILE:HG13	2.18	0.43
1:M:149:ILE:HD13	1:M:149:ILE:HG21	1.74	0.43
1:N:26:LYS:CG	1:N:97:VAL:HG22	2.48	0.43
1:N:43:TYR:CD2	1:N:67:LEU:CD1	3.01	0.43
1:N:123:LYS:HZ2	1:N:127:ARG:NH1	2.17	0.43
1:N:157:GLU:HG3	1:N:158:GLY:N	2.33	0.43
1:N:211:ILE:HG13	1:N:212:ARG:N	2.34	0.43
1:N:240:MET:SD	1:N:251:SER:CB	3.07	0.43
1:O:43:TYR:CD2	1:O:67:LEU:CD1	3.01	0.43
1:O:45:LEU:CB	1:O:67:LEU:HD11	2.40	0.43
1:O:109:VAL:CG2	1:O:318:LEU:HB3	2.48	0.43
1:O:203:GLU:O	1:O:204:HIS:CD2	2.72	0.43
1:A:7:GLU:CD	1:A:107:GLN:HE22	2.22	0.43
1:C:26:LYS:CG	1:C:97:VAL:HG22	2.48	0.43
1:C:203:GLU:O	1:C:204:HIS:CD2	2.72	0.43
1:C:240:MET:SD	1:C:251:SER:CB	3.06	0.43
1:E:34:LYS:N	1:E:35:ARG:CA	2.82	0.43
1:E:240:MET:SD	1:E:251:SER:CB	3.07	0.43
1:G:203:GLU:O	1:G:204:HIS:CD2	2.72	0.43
1:G:296:ILE:O	1:G:296:ILE:HG13	2.18	0.43
1:H:32:ASP:HB3	1:H:34:LYS:HD2	1.93	0.43
1:H:99:ASP:O	1:H:99:ASP:OD1	2.37	0.43
1:H:100:SER:HB3	1:H:101:ASN:HB2	2.00	0.43
1:H:109:VAL:CG2	1:H:321:VAL:HG13	2.46	0.43
1:H:109:VAL:HG11	1:H:318:LEU:O	2.19	0.43
1:H:116:VAL:HG21	1:H:121:LYS:HG3	1.98	0.43
1:H:268:LEU:CA	1:K:268:LEU:HD21	2.48	0.43
1:H:271:LYS:HG2	1:K:202:GLU:OE2	2.17	0.43
1:I:44:ASN:HB2	1:I:64:LYS:NZ	2.26	0.43
1:I:198:GLU:OE2	1:I:274:PHE:CE2	2.71	0.43
1:I:219:ASP:HA	1:I:224:ASN:CG	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:34:LYS:N	1:J:35:ARG:CA	2.82	0.43
1:L:27:LYS:NZ	1:L:35:ARG:NH2	2.59	0.43
1:M:169:PHE:CE2	1:N:79:THR:CG2	3.02	0.43
1:M:211:ILE:HG13	1:M:212:ARG:N	2.34	0.43
1:N:7:GLU:CD	1:N:107:GLN:HE22	2.22	0.43
1:N:109:VAL:CG2	1:N:318:LEU:HB3	2.48	0.43
1:N:109:VAL:CG2	1:N:321:VAL:HG13	2.46	0.43
1:N:203:GLU:O	1:N:204:HIS:CD2	2.72	0.43
1:N:284:PHE:CE2	1:N:296:ILE:CG2	2.95	0.43
1:O:116:VAL:HG22	1:O:116:VAL:O	2.19	0.43
1:O:119:ASN:CG	1:O:120:ALA:N	2.72	0.43
1:P:198:GLU:OE2	1:P:274:PHE:CE2	2.71	0.43
1:A:34:LYS:N	1:A:35:ARG:CA	2.82	0.43
1:A:179:PHE:HB2	1:A:288:THR:HB	1.93	0.43
1:A:246:ILE:HG23	1:E:50:ILE:C	2.05	0.43
1:B:43:TYR:CE2	1:B:67:LEU:CG	3.01	0.43
1:B:87:LYS:HD3	1:B:129:TYR:CE2	2.53	0.43
1:C:231:ALA:H	1:H:308:ASN:ND2	2.04	0.43
1:C:246:ILE:CG1	1:H:320:LYS:CA	2.88	0.43
1:D:7:GLU:CD	1:D:107:GLN:HE22	2.22	0.43
1:D:34:LYS:N	1:D:35:ARG:CA	2.82	0.43
1:D:149:ILE:HD13	1:D:149:ILE:HG21	1.74	0.43
1:E:44:ASN:HB2	1:E:64:LYS:NZ	2.26	0.43
1:E:60:GLU:N	1:E:137:THR:HG22	2.32	0.43
1:E:157:GLU:HG3	1:E:158:GLY:N	2.33	0.43
1:F:43:TYR:CE2	1:F:67:LEU:CG	3.01	0.43
1:F:99:ASP:OD1	1:F:99:ASP:O	2.37	0.43
1:F:109:VAL:CG2	1:F:321:VAL:HG13	2.46	0.43
1:G:99:ASP:OD1	1:G:99:ASP:O	2.37	0.43
1:G:219:ASP:HB3	1:H:275:LYS:HZ2	1.83	0.43
1:G:220:LEU:O	1:G:234:ALA:O	2.37	0.43
1:G:225:LEU:CA	1:H:276:LEU:O	2.64	0.43
1:G:271:LYS:CD	1:J:202:GLU:HG3	2.49	0.43
1:H:123:LYS:HE2	1:H:127:ARG:NH2	2.34	0.43
1:H:203:GLU:CG	1:K:197:SER:C	2.87	0.43
1:I:52:ILE:HG13	1:M:247:ASP:O	2.16	0.43
1:I:113:PRO:O	1:I:116:VAL:HG12	2.18	0.43
1:J:85:ILE:HG23	1:J:86:HIS:H	1.84	0.43
1:J:123:LYS:HE2	1:J:127:ARG:NH2	2.34	0.43
1:J:165:GLU:CD	1:O:241:LYS:O	2.57	0.43
1:J:198:GLU:OE2	1:J:274:PHE:CE2	2.71	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:85:ILE:HG23	1:K:86:HIS:H	1.84	0.43
1:L:66:TYR:CZ	1:L:88:LEU:CD2	3.01	0.43
1:L:119:ASN:CG	1:L:120:ALA:N	2.72	0.43
1:O:109:VAL:HG11	1:O:318:LEU:O	2.19	0.43
1:O:116:VAL:HG21	1:O:121:LYS:HG3	1.98	0.43
1:P:203:GLU:O	1:P:204:HIS:CD2	2.72	0.43
1:A:198:GLU:OE2	1:A:274:PHE:CE2	2.71	0.43
1:A:208:ASP:HA	1:A:211:ILE:HD11	1.99	0.43
1:A:227:THR:CG2	1:B:300:TYR:C	2.66	0.43
1:A:227:THR:CB	1:B:300:TYR:HA	2.46	0.43
1:A:243:GLY:HA3	1:F:162:LEU:O	2.19	0.43
1:D:43:TYR:CD2	1:D:67:LEU:CD1	3.01	0.43
1:E:99:ASP:OD1	1:E:99:ASP:O	2.37	0.43
1:E:203:GLU:O	1:E:204:HIS:HD2	2.02	0.43
1:F:203:GLU:O	1:F:204:HIS:CD2	2.72	0.43
1:F:296:ILE:O	1:F:296:ILE:HG13	2.18	0.43
1:G:46:GLU:H	1:H:324:ALA:HB1	1.83	0.43
1:G:116:VAL:HG22	1:G:116:VAL:O	2.19	0.43
1:G:196:PRO:HA	1:G:199:ARG:NH2	2.34	0.43
1:G:197:SER:HB3	1:J:203:GLU:HG2	2.01	0.43
1:G:211:ILE:HG13	1:G:212:ARG:N	2.34	0.43
1:H:7:GLU:CD	1:H:107:GLN:HE22	2.22	0.43
1:H:43:TYR:CD2	1:H:67:LEU:CD1	3.01	0.43
1:H:116:VAL:HG22	1:H:116:VAL:O	2.19	0.43
1:H:220:LEU:O	1:H:234:ALA:O	2.37	0.43
1:I:85:ILE:HG23	1:I:86:HIS:H	1.84	0.43
1:I:166:GLN:C	1:N:241:LYS:CA	2.86	0.43
1:I:203:GLU:O	1:I:204:HIS:HD2	2.02	0.43
1:I:219:ASP:C	1:I:224:ASN:CB	2.82	0.43
1:J:276:LEU:HD12	1:K:225:LEU:HD13	2.00	0.43
1:K:35:ARG:HH22	1:K:316:GLU:HG2	1.81	0.43
1:K:109:VAL:HG11	1:K:318:LEU:O	2.19	0.43
1:K:300:TYR:H	1:L:227:THR:CG2	2.31	0.43
1:L:186:PHE:HD2	1:L:269:ILE:CD1	2.31	0.43
1:L:240:MET:SD	1:L:251:SER:CB	3.06	0.43
1:M:22:ILE:HB	1:M:27:LYS:HE3	1.96	0.43
1:M:34:LYS:N	1:M:35:ARG:CA	2.82	0.43
1:M:43:TYR:CD2	1:M:67:LEU:CD1	3.01	0.43
1:M:113:PRO:O	1:M:116:VAL:HG12	2.18	0.43
1:M:198:GLU:OE2	1:M:274:PHE:CE2	2.71	0.43
1:M:302:ASN:HB2	1:N:226:ILE:HG12	1.16	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:22:ILE:HB	1:N:27:LYS:HE3	1.96	0.43
1:O:99:ASP:OD1	1:O:99:ASP:O	2.37	0.43
1:P:306:ILE:HD12	1:P:307:THR:N	2.29	0.43
1:A:211:ILE:HG13	1:A:212:ARG:N	2.34	0.42
1:A:246:ILE:C	1:E:50:ILE:CG1	2.43	0.42
1:B:34:LYS:N	1:B:35:ARG:CA	2.82	0.42
1:B:49:TYR:CZ	1:C:320:LYS:HD3	2.51	0.42
1:B:203:GLU:O	1:B:204:HIS:CD2	2.72	0.42
1:B:227:THR:CB	1:C:300:TYR:HA	2.46	0.42
1:C:61:LEU:HD12	1:C:91:TYR:CB	2.49	0.42
1:C:241:LYS:HD3	1:H:305:ILE:HB	2.01	0.42
1:D:116:VAL:HG21	1:D:121:LYS:HZ2	1.83	0.42
1:D:308:ASN:HD21	1:H:241:LYS:HB2	1.82	0.42
1:E:109:VAL:HG11	1:E:318:LEU:O	2.19	0.42
1:E:123:LYS:HE2	1:E:127:ARG:NH2	2.34	0.42
1:F:11:THR:HG23	1:F:318:LEU:CB	2.44	0.42
1:F:197:SER:C	1:I:203:GLU:CG	2.87	0.42
1:F:211:ILE:HG13	1:F:212:ARG:N	2.34	0.42
1:G:48:GLY:N	1:H:324:ALA:N	2.63	0.42
1:G:116:VAL:HG21	1:G:121:LYS:HG3	1.98	0.42
1:G:203:GLU:HG2	1:J:197:SER:HB3	2.00	0.42
1:H:43:TYR:CE2	1:H:67:LEU:CG	3.01	0.42
1:H:131:LYS:HD2	1:H:149:ILE:HD11	1.99	0.42
1:H:196:PRO:HA	1:H:199:ARG:NH2	2.34	0.42
1:H:240:MET:SD	1:H:251:SER:CB	3.07	0.42
1:H:270:GLU:O	1:K:204:HIS:HE1	2.02	0.42
1:H:272:ARG:HA	1:K:202:GLU:OE2	2.18	0.42
1:I:34:LYS:N	1:I:35:ARG:CA	2.82	0.42
1:I:157:GLU:HG3	1:I:158:GLY:N	2.33	0.42
1:J:50:ILE:CD1	1:N:246:ILE:C	2.87	0.42
1:J:203:GLU:O	1:J:204:HIS:HD2	2.02	0.42
1:K:34:LYS:N	1:K:35:ARG:CA	2.82	0.42
1:L:24:LYS:HD3	1:L:319:TYR:CZ	2.54	0.42
1:L:87:LYS:HD3	1:L:129:TYR:CE2	2.53	0.42
1:L:109:VAL:HG11	1:L:318:LEU:O	2.19	0.42
1:L:196:PRO:HA	1:L:199:ARG:CZ	2.49	0.42
1:M:26:LYS:CG	1:M:97:VAL:HG22	2.48	0.42
1:M:116:VAL:HG22	1:M:116:VAL:O	2.19	0.42
1:M:179:PHE:HB2	1:M:288:THR:HB	1.93	0.42
1:M:320:LYS:CD	1:N:50:ILE:N	2.44	0.42
1:P:87:LYS:HD3	1:P:129:TYR:CE2	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:109:VAL:HG11	1:A:318:LEU:O	2.19	0.42
1:C:43:TYR:CE1	1:C:70:GLU:CG	2.95	0.42
1:C:49:TYR:CE1	1:D:320:LYS:NZ	2.74	0.42
1:C:113:PRO:O	1:C:116:VAL:HG12	2.18	0.42
1:D:43:TYR:CE1	1:D:70:GLU:CG	2.95	0.42
1:E:36:VAL:C	1:E:312:TRP:CH2	2.93	0.42
1:E:116:VAL:HG22	1:E:116:VAL:O	2.19	0.42
1:E:196:PRO:HA	1:E:199:ARG:CZ	2.49	0.42
1:E:218:THR:C	1:F:275:LYS:HG2	2.40	0.42
1:F:220:LEU:O	1:F:234:ALA:O	2.37	0.42
1:G:36:VAL:C	1:G:312:TRP:CH2	2.93	0.42
1:H:34:LYS:N	1:H:35:ARG:CA	2.82	0.42
1:H:36:VAL:HG21	1:H:38:PHE:CZ	2.54	0.42
1:H:95:THR:HG21	1:H:136:ILE:HG21	1.97	0.42
1:H:211:ILE:HG13	1:H:212:ARG:N	2.34	0.42
1:I:109:VAL:CG2	1:I:318:LEU:HB3	2.48	0.42
1:I:220:LEU:O	1:I:234:ALA:O	2.37	0.42
1:J:36:VAL:C	1:J:312:TRP:CH2	2.93	0.42
1:J:196:PRO:HA	1:J:199:ARG:NH2	2.34	0.42
1:J:300:TYR:H	1:K:227:THR:CG2	2.31	0.42
1:K:24:LYS:HD3	1:K:319:TYR:CZ	2.54	0.42
1:K:203:GLU:O	1:K:204:HIS:HD2	2.02	0.42
1:K:275:LYS:HG2	1:L:218:THR:C	2.40	0.42
1:L:61:LEU:HD12	1:L:91:TYR:CB	2.49	0.42
1:L:157:GLU:HG3	1:L:158:GLY:N	2.33	0.42
1:M:27:LYS:HZ1	1:M:35:ARG:HH21	1.67	0.42
1:M:109:VAL:CG2	1:M:318:LEU:HB3	2.48	0.42
1:P:7:GLU:CD	1:P:107:GLN:HE22	2.22	0.42
1:P:99:ASP:O	1:P:99:ASP:OD1	2.37	0.42
1:P:116:VAL:HG22	1:P:116:VAL:O	2.19	0.42
1:P:116:VAL:HG21	1:P:121:LYS:HG3	1.98	0.42
1:P:203:GLU:O	1:P:204:HIS:HD2	2.02	0.42
1:A:220:LEU:HD12	1:A:220:LEU:N	2.34	0.42
1:A:246:ILE:CG1	1:F:320:LYS:O	2.67	0.42
1:B:7:GLU:CD	1:B:107:GLN:HE22	2.22	0.42
1:C:211:ILE:HG13	1:C:212:ARG:N	2.34	0.42
1:C:227:THR:CB	1:D:300:TYR:HA	2.46	0.42
1:C:246:ILE:CA	1:G:52:ILE:CG1	2.88	0.42
1:D:109:VAL:HG11	1:D:318:LEU:O	2.19	0.42
1:D:196:PRO:HA	1:D:199:ARG:CZ	2.49	0.42
1:E:211:ILE:HG13	1:E:212:ARG:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:220:LEU:O	1:E:234:ALA:O	2.37	0.42
1:E:225:LEU:HD13	1:F:276:LEU:HD12	2.00	0.42
1:F:34:LYS:N	1:F:35:ARG:CA	2.82	0.42
1:F:202:GLU:OE2	1:I:271:LYS:HG2	2.18	0.42
1:F:203:GLU:O	1:F:204:HIS:HD2	2.02	0.42
1:H:8:TYR:CE1	1:H:25:ASN:ND2	2.86	0.42
1:H:45:LEU:CB	1:H:67:LEU:HD11	2.40	0.42
1:H:196:PRO:HA	1:H:199:ARG:CZ	2.50	0.42
1:H:203:GLU:O	1:H:204:HIS:CD2	2.72	0.42
1:H:219:ASP:HA	1:H:224:ASN:CG	2.36	0.42
1:I:49:TYR:CE2	1:M:245:GLU:C	2.93	0.42
1:I:73:VAL:CG2	1:M:240:MET:HE1	2.27	0.42
1:I:196:PRO:HA	1:I:199:ARG:NH2	2.35	0.42
1:J:24:LYS:HD3	1:J:319:TYR:CZ	2.54	0.42
1:K:110:LEU:CA	1:K:318:LEU:HD13	2.36	0.42
1:L:27:LYS:HE2	1:L:35:ARG:CG	2.34	0.42
1:L:43:TYR:CE1	1:L:70:GLU:CG	2.95	0.42
1:L:50:ILE:CD1	1:P:247:ASP:N	2.82	0.42
1:L:198:GLU:OE2	1:L:274:PHE:CE2	2.71	0.42
1:M:99:ASP:OD1	1:M:99:ASP:O	2.37	0.42
1:M:203:GLU:O	1:M:204:HIS:HD2	2.02	0.42
1:N:99:ASP:OD1	1:N:99:ASP:O	2.37	0.42
1:N:198:GLU:OE2	1:N:274:PHE:CE2	2.71	0.42
1:A:61:LEU:HD12	1:A:91:TYR:CB	2.49	0.42
1:A:254:ILE:CG1	1:A:255:LYS:N	2.83	0.42
1:B:116:VAL:CG2	1:B:121:LYS:HZ2	2.32	0.42
1:B:241:LYS:HD3	1:G:305:ILE:HB	2.02	0.42
1:C:112:CYS:CB	1:C:122:ALA:HB1	2.50	0.42
1:D:26:LYS:CG	1:D:97:VAL:HG22	2.48	0.42
1:D:211:ILE:HG13	1:D:212:ARG:N	2.34	0.42
1:E:36:VAL:HG21	1:E:38:PHE:CZ	2.54	0.42
1:E:196:PRO:HA	1:E:199:ARG:NH2	2.34	0.42
1:F:71:GLN:HG3	1:G:168:ASN:CB	2.49	0.42
1:F:109:VAL:CG2	1:F:318:LEU:HB3	2.48	0.42
1:F:116:VAL:HG22	1:F:116:VAL:O	2.19	0.42
1:F:116:VAL:HG21	1:F:121:LYS:HG3	1.98	0.42
1:F:196:PRO:HA	1:F:199:ARG:NH2	2.35	0.42
1:G:179:PHE:HB2	1:G:288:THR:HB	1.93	0.42
1:G:203:GLU:O	1:G:204:HIS:HD2	2.02	0.42
1:I:99:ASP:OD1	1:I:99:ASP:O	2.37	0.42
1:I:116:VAL:HG22	1:I:116:VAL:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:177:ILE:CG1	1:I:284:PHE:HA	2.46	0.42
1:J:22:ILE:HB	1:J:27:LYS:HE3	1.96	0.42
1:J:220:LEU:O	1:J:234:ALA:O	2.37	0.42
1:J:275:LYS:HG2	1:K:218:THR:C	2.40	0.42
1:K:7:GLU:CD	1:K:107:GLN:HE22	2.22	0.42
1:K:27:LYS:HE2	1:K:35:ARG:CG	2.34	0.42
1:K:43:TYR:CD2	1:K:75:ASP:HB3	2.55	0.42
1:K:196:PRO:HA	1:K:199:ARG:NH2	2.35	0.42
1:L:85:ILE:HG23	1:L:86:HIS:H	1.84	0.42
1:M:133:ASN:HD21	1:M:148:GLU:CB	2.33	0.42
1:M:196:PRO:HA	1:M:199:ARG:NH2	2.34	0.42
1:M:203:GLU:O	1:M:204:HIS:CD2	2.72	0.42
1:O:22:ILE:HB	1:O:27:LYS:HE3	1.96	0.42
1:O:34:LYS:N	1:O:35:ARG:CA	2.82	0.42
1:O:198:GLU:OE2	1:O:274:PHE:CE2	2.71	0.42
1:O:320:LYS:NZ	1:P:50:ILE:CG1	2.72	0.42
1:P:196:PRO:HA	1:P:199:ARG:NH2	2.34	0.42
1:A:27:LYS:HZ1	1:A:35:ARG:HE	1.66	0.42
1:A:112:CYS:CB	1:A:122:ALA:HB1	2.50	0.42
1:A:241:LYS:CE	1:F:305:ILE:HG21	2.49	0.42
1:B:157:GLU:HG3	1:B:158:GLY:N	2.33	0.42
1:B:220:LEU:HD12	1:B:220:LEU:N	2.34	0.42
1:B:246:ILE:HG13	1:F:49:TYR:CG	2.55	0.42
1:C:109:VAL:HG11	1:C:318:LEU:O	2.19	0.42
1:E:186:PHE:HD2	1:E:269:ILE:CD1	2.31	0.42
1:F:44:ASN:HB2	1:F:64:LYS:NZ	2.26	0.42
1:F:227:THR:CG2	1:G:300:TYR:H	2.31	0.42
1:G:71:GLN:HG3	1:H:168:ASN:CB	2.49	0.42
1:G:196:PRO:HA	1:G:199:ARG:CZ	2.49	0.42
1:H:61:LEU:CD1	1:H:91:TYR:CD2	3.03	0.42
1:I:27:LYS:HZ1	1:I:35:ARG:HE	1.66	0.42
1:I:35:ARG:O	1:I:36:VAL:HB	2.20	0.42
1:I:186:PHE:HD2	1:I:269:ILE:CD1	2.32	0.42
1:I:275:LYS:HG2	1:J:218:THR:C	2.40	0.42
1:J:35:ARG:O	1:J:36:VAL:HB	2.20	0.42
1:J:99:ASP:OD1	1:J:99:ASP:O	2.37	0.42
1:J:116:VAL:HG22	1:J:116:VAL:O	2.19	0.42
1:K:61:LEU:HD12	1:K:91:TYR:CB	2.49	0.42
1:K:116:VAL:HG22	1:K:116:VAL:O	2.19	0.42
1:L:36:VAL:C	1:L:312:TRP:CH2	2.93	0.42
1:L:196:PRO:HA	1:L:199:ARG:NH2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:112:CYS:CB	1:N:122:ALA:HB1	2.50	0.42
1:N:196:PRO:HA	1:N:199:ARG:CZ	2.50	0.42
1:O:133:ASN:HD21	1:O:148:GLU:CB	2.33	0.42
1:P:24:LYS:HD3	1:P:319:TYR:CZ	2.54	0.42
1:P:34:LYS:N	1:P:35:ARG:CA	2.82	0.42
1:P:220:LEU:HD12	1:P:220:LEU:N	2.34	0.42
1:A:43:TYR:CD2	1:A:75:ASP:HB3	2.55	0.42
1:B:242:LYS:O	1:G:166:GLN:CA	2.49	0.42
1:B:254:ILE:CG1	1:B:255:LYS:N	2.83	0.42
1:C:34:LYS:N	1:C:35:ARG:CA	2.82	0.42
1:C:254:ILE:CG1	1:C:255:LYS:N	2.83	0.42
1:D:27:LYS:HE2	1:D:35:ARG:NE	2.26	0.42
1:D:200:PHE:HB3	1:D:272:ARG:NE	2.35	0.42
1:D:248:THR:HA	1:H:52:ILE:CG2	2.47	0.42
1:E:24:LYS:HD3	1:E:319:TYR:CZ	2.54	0.42
1:E:116:VAL:HG21	1:E:121:LYS:HG3	1.98	0.42
1:F:43:TYR:CD2	1:F:75:ASP:HB3	2.55	0.42
1:F:218:THR:C	1:G:275:LYS:HG2	2.40	0.42
1:G:36:VAL:HG21	1:G:38:PHE:CZ	2.54	0.42
1:G:109:VAL:HG11	1:G:318:LEU:O	2.19	0.42
1:G:218:THR:C	1:H:275:LYS:HG2	2.40	0.42
1:H:110:LEU:CD2	1:H:111:ALA:O	2.68	0.42
1:H:202:GLU:CA	1:K:272:ARG:CG	2.73	0.42
1:H:203:GLU:O	1:H:204:HIS:HD2	2.02	0.42
1:I:43:TYR:CD2	1:I:75:ASP:HB3	2.55	0.42
1:I:300:TYR:H	1:J:227:THR:CG2	2.31	0.42
1:J:35:ARG:HH22	1:J:316:GLU:HG2	1.81	0.42
1:J:123:LYS:HZ1	1:J:127:ARG:NH1	2.15	0.42
1:J:177:ILE:CG1	1:J:284:PHE:HA	2.46	0.42
1:K:35:ARG:O	1:K:36:VAL:HB	2.20	0.42
1:K:99:ASP:O	1:K:99:ASP:OD1	2.37	0.42
1:L:35:ARG:O	1:L:36:VAL:HB	2.20	0.42
1:L:116:VAL:HG22	1:L:116:VAL:O	2.19	0.42
1:M:112:CYS:CB	1:M:122:ALA:HB1	2.50	0.42
1:N:24:LYS:HD3	1:N:319:TYR:CZ	2.54	0.42
1:N:219:ASP:HA	1:N:224:ASN:CG	2.36	0.42
1:N:310:SER:CA	1:N:313:THR:HG23	2.47	0.42
1:O:61:LEU:HD12	1:O:91:TYR:CB	2.49	0.42
1:O:219:ASP:HA	1:O:224:ASN:CG	2.36	0.42
1:O:220:LEU:HD12	1:O:220:LEU:N	2.34	0.42
1:P:43:TYR:CD2	1:P:75:ASP:HB3	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:61:LEU:HD12	1:P:91:TYR:CB	2.49	0.42
1:P:173:ASN:ND2	1:P:279:LEU:CD2	2.70	0.42
1:P:219:ASP:HA	1:P:224:ASN:CG	2.36	0.42
1:A:35:ARG:O	1:A:36:VAL:HB	2.20	0.42
1:A:85:ILE:HG23	1:A:86:HIS:H	1.84	0.42
1:B:43:TYR:CD2	1:B:75:ASP:HB3	2.55	0.42
1:B:110:LEU:CD2	1:B:111:ALA:O	2.68	0.42
1:B:241:LYS:CE	1:G:305:ILE:CG2	2.98	0.42
1:C:133:ASN:HD21	1:C:148:GLU:CB	2.33	0.42
1:C:196:PRO:HA	1:C:199:ARG:CZ	2.49	0.42
1:C:220:LEU:O	1:C:234:ALA:O	2.37	0.42
1:D:87:LYS:HD3	1:D:129:TYR:CE2	2.53	0.42
1:D:220:LEU:O	1:D:234:ALA:O	2.37	0.42
1:E:7:GLU:CD	1:E:107:GLN:HE22	2.22	0.42
1:E:120:ALA:C	1:E:124:GLU:HG2	2.40	0.42
1:F:24:LYS:HD3	1:F:319:TYR:CZ	2.54	0.42
1:G:7:GLU:CD	1:G:107:GLN:HE22	2.22	0.42
1:G:24:LYS:HD3	1:G:319:TYR:CZ	2.54	0.42
1:G:85:ILE:HG23	1:G:86:HIS:H	1.84	0.42
1:G:120:ALA:C	1:G:124:GLU:HG2	2.40	0.42
1:G:310:SER:CA	1:G:313:THR:HG23	2.47	0.42
1:H:85:ILE:HG23	1:H:86:HIS:H	1.84	0.42
1:I:24:LYS:HD3	1:I:319:TYR:CZ	2.54	0.42
1:I:61:LEU:HD12	1:I:91:TYR:CB	2.49	0.42
1:I:73:VAL:CB	1:M:240:MET:HE1	2.47	0.42
1:I:173:ASN:ND2	1:I:279:LEU:CD2	2.70	0.42
1:I:257:VAL:HG13	1:I:258:LYS:N	2.35	0.42
1:J:110:LEU:CA	1:J:318:LEU:HD13	2.36	0.42
1:J:196:PRO:HA	1:J:199:ARG:CZ	2.49	0.42
1:J:284:PHE:CE2	1:J:296:ILE:CG2	2.95	0.42
1:K:164:LEU:O	1:P:242:LYS:CA	2.67	0.42
1:K:177:ILE:CG1	1:K:284:PHE:HA	2.46	0.42
1:K:196:PRO:HA	1:K:199:ARG:CZ	2.50	0.42
1:K:219:ASP:OD1	1:K:225:LEU:HG	2.11	0.42
1:K:220:LEU:O	1:K:234:ALA:O	2.37	0.42
1:L:7:GLU:CD	1:L:107:GLN:HE22	2.22	0.42
1:L:110:LEU:CD2	1:L:111:ALA:O	2.68	0.42
1:L:203:GLU:O	1:L:204:HIS:HD2	2.02	0.42
1:L:220:LEU:O	1:L:234:ALA:O	2.37	0.42
1:M:35:ARG:O	1:M:36:VAL:HB	2.20	0.42
1:M:61:LEU:HD12	1:M:91:TYR:CB	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:200:PHE:HB3	1:M:272:ARG:NE	2.35	0.42
1:N:35:ARG:O	1:N:36:VAL:HB	2.20	0.42
1:O:22:ILE:HD13	1:O:22:ILE:HG21	1.88	0.42
1:O:24:LYS:HD3	1:O:319:TYR:CZ	2.54	0.42
1:O:112:CYS:CB	1:O:122:ALA:HB1	2.50	0.42
1:A:99:ASP:OD1	1:A:99:ASP:O	2.37	0.42
1:A:133:ASN:HD21	1:A:148:GLU:CB	2.33	0.42
1:A:200:PHE:HB3	1:A:272:ARG:NE	2.35	0.42
1:B:43:TYR:CE1	1:B:70:GLU:CG	2.95	0.42
1:B:49:TYR:CE1	1:C:320:LYS:NZ	2.74	0.42
1:B:109:VAL:HG11	1:B:318:LEU:O	2.19	0.42
1:B:116:VAL:HG22	1:B:116:VAL:O	2.19	0.42
1:B:196:PRO:HA	1:B:199:ARG:CZ	2.50	0.42
1:B:200:PHE:HB3	1:B:272:ARG:NE	2.35	0.42
1:B:247:ASP:N	1:F:52:ILE:CG1	2.69	0.42
1:B:248:THR:CG2	1:F:52:ILE:HD13	2.44	0.42
1:B:284:PHE:CZ	1:B:304:SER:OG	2.68	0.42
1:C:7:GLU:CD	1:C:107:GLN:HE22	2.22	0.42
1:C:45:LEU:HD23	1:C:58:LYS:HZ1	1.83	0.42
1:C:220:LEU:HD12	1:C:220:LEU:N	2.34	0.42
1:D:61:LEU:HD12	1:D:91:TYR:CB	2.49	0.42
1:D:133:ASN:HD21	1:D:148:GLU:CB	2.33	0.42
1:D:254:ILE:CG1	1:D:255:LYS:N	2.83	0.42
1:E:61:LEU:CD1	1:E:91:TYR:CD2	3.03	0.42
1:F:7:GLU:CD	1:F:107:GLN:HE22	2.22	0.42
1:F:27:LYS:HE2	1:F:35:ARG:NE	2.26	0.42
1:F:61:LEU:CD1	1:F:91:TYR:CD2	3.03	0.42
1:F:120:ALA:C	1:F:124:GLU:HG2	2.41	0.42
1:G:225:LEU:HD13	1:H:276:LEU:HD12	2.00	0.42
1:H:24:LYS:HD3	1:H:319:TYR:CZ	2.54	0.42
1:H:43:TYR:CD2	1:H:75:ASP:HB3	2.55	0.42
1:H:284:PHE:CE2	1:H:296:ILE:CG2	2.95	0.42
1:I:112:CYS:CB	1:I:122:ALA:HB1	2.50	0.42
1:J:112:CYS:CB	1:J:122:ALA:HB1	2.50	0.42
1:J:211:ILE:HG13	1:J:212:ARG:N	2.34	0.42
1:L:43:TYR:CD2	1:L:67:LEU:CB	2.95	0.42
1:L:99:ASP:OD1	1:L:99:ASP:O	2.37	0.42
1:L:220:LEU:O	1:L:221:ASN:C	2.58	0.42
1:M:24:LYS:HD3	1:M:319:TYR:CZ	2.54	0.42
1:M:218:THR:HG23	1:M:219:ASP:CG	2.40	0.42
1:N:33:ILE:HB	1:N:312:TRP:HE1	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:196:PRO:HA	1:N:199:ARG:NH2	2.35	0.42
1:N:203:GLU:O	1:N:204:HIS:HD2	2.02	0.42
1:N:300:TYR:C	1:O:227:THR:CG2	2.66	0.42
1:O:33:ILE:HB	1:O:312:TRP:HE1	1.83	0.42
1:O:105:LYS:HZ3	1:O:148:GLU:HB3	1.84	0.42
1:O:200:PHE:HB3	1:O:272:ARG:NE	2.35	0.42
1:P:22:ILE:HB	1:P:27:LYS:HE3	1.96	0.42
1:P:27:LYS:HE2	1:P:35:ARG:CG	2.34	0.42
1:P:43:TYR:HH	1:P:56:SER:HG	1.64	0.42
1:P:112:CYS:CB	1:P:122:ALA:HB1	2.50	0.42
1:A:61:LEU:CD1	1:A:91:TYR:CD2	3.03	0.42
1:A:241:LYS:HD3	1:F:305:ILE:HB	2.02	0.42
1:A:284:PHE:CZ	1:A:304:SER:OG	2.68	0.42
1:B:35:ARG:O	1:B:36:VAL:HB	2.20	0.42
1:B:99:ASP:OD1	1:B:99:ASP:O	2.37	0.42
1:B:133:ASN:HD21	1:B:148:GLU:CB	2.33	0.42
1:B:220:LEU:O	1:B:234:ALA:O	2.37	0.42
1:C:43:TYR:CD2	1:C:75:ASP:HB3	2.55	0.42
1:C:149:ILE:HD13	1:C:149:ILE:HG21	1.74	0.42
1:C:241:LYS:O	1:H:165:GLU:C	2.57	0.42
1:D:119:ASN:CG	1:D:120:ALA:N	2.72	0.42
1:D:196:PRO:HA	1:D:199:ARG:NH2	2.34	0.42
1:D:240:MET:HE2	1:H:73:VAL:HG23	2.01	0.42
1:E:200:PHE:HB3	1:E:272:ARG:NE	2.35	0.42
1:F:184:MET:HG2	1:F:202:GLU:HB3	2.01	0.42
1:F:196:PRO:HA	1:F:199:ARG:CZ	2.50	0.42
1:F:219:ASP:C	1:G:277:ASP:CB	2.77	0.42
1:F:284:PHE:CE2	1:F:296:ILE:CG2	2.95	0.42
1:G:34:LYS:N	1:G:35:ARG:CA	2.82	0.42
1:G:219:ASP:C	1:G:224:ASN:CB	2.82	0.42
1:H:120:ALA:C	1:H:124:GLU:HG2	2.41	0.42
1:H:272:ARG:HB2	1:K:202:GLU:CA	2.36	0.42
1:I:61:LEU:CD1	1:I:91:TYR:CD2	3.03	0.42
1:K:52:ILE:CG1	1:O:247:ASP:N	2.67	0.42
1:K:110:LEU:CD2	1:K:111:ALA:O	2.68	0.42
1:K:276:LEU:HD12	1:L:225:LEU:HD13	2.00	0.42
1:L:49:TYR:HE2	1:P:245:GLU:O	2.03	0.42
1:L:177:ILE:CG1	1:L:284:PHE:HA	2.46	0.42
1:L:184:MET:HG2	1:L:202:GLU:HB3	2.01	0.42
1:L:257:VAL:HG13	1:L:258:LYS:N	2.35	0.42
1:M:33:ILE:HB	1:M:312:TRP:HE1	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:109:VAL:HG11	1:M:318:LEU:O	2.19	0.42
1:M:110:LEU:CD2	1:M:111:ALA:O	2.68	0.42
1:M:138:VAL:CG2	1:M:145:TYR:CE2	3.02	0.42
1:N:22:ILE:HD13	1:N:22:ILE:HG21	1.89	0.42
1:N:61:LEU:HD12	1:N:91:TYR:CB	2.49	0.42
1:N:169:PHE:H	1:O:41:LYS:NZ	2.18	0.42
1:N:220:LEU:HD12	1:N:220:LEU:N	2.34	0.42
1:N:257:VAL:HG13	1:N:258:LYS:N	2.35	0.42
1:O:7:GLU:CD	1:O:107:GLN:HE22	2.22	0.42
1:O:36:VAL:C	1:O:312:TRP:CH2	2.93	0.42
1:O:61:LEU:CD1	1:O:91:TYR:CD2	3.03	0.42
1:O:110:LEU:CD2	1:O:111:ALA:O	2.68	0.42
1:P:61:LEU:CD1	1:P:91:TYR:CD2	3.03	0.42
1:P:133:ASN:HD21	1:P:148:GLU:CB	2.33	0.42
1:P:220:LEU:O	1:P:234:ALA:O	2.37	0.42
1:B:61:LEU:HD12	1:B:91:TYR:CB	2.49	0.42
1:C:200:PHE:HB3	1:C:272:ARG:NE	2.35	0.42
1:C:257:VAL:HG13	1:C:258:LYS:N	2.35	0.42
1:C:284:PHE:CZ	1:C:304:SER:OG	2.68	0.42
1:E:85:ILE:HG23	1:E:86:HIS:H	1.84	0.42
1:E:257:VAL:HG13	1:E:258:LYS:N	2.35	0.42
1:F:36:VAL:C	1:F:312:TRP:CH2	2.93	0.42
1:F:85:ILE:HG23	1:F:86:HIS:H	1.84	0.42
1:G:61:LEU:CD1	1:G:91:TYR:CD2	3.03	0.42
1:G:110:LEU:CD2	1:G:111:ALA:O	2.68	0.42
1:G:202:GLU:HG2	1:J:272:ARG:N	2.35	0.42
1:H:36:VAL:C	1:H:312:TRP:CH2	2.93	0.42
1:H:112:CYS:CB	1:H:122:ALA:HB1	2.50	0.42
1:H:220:LEU:O	1:H:221:ASN:C	2.58	0.42
1:I:109:VAL:HG11	1:I:318:LEU:O	2.19	0.42
1:I:110:LEU:CD2	1:I:111:ALA:O	2.68	0.42
1:L:52:ILE:CD1	1:P:248:THR:CG2	2.97	0.42
1:L:284:PHE:CE2	1:L:296:ILE:CG2	2.95	0.42
1:M:222:ASN:HD22	1:M:237:ASN:HB2	1.75	0.42
1:N:34:LYS:N	1:N:35:ARG:CA	2.82	0.42
1:N:61:LEU:CD1	1:N:91:TYR:CD2	3.03	0.42
1:O:196:PRO:HA	1:O:199:ARG:CZ	2.50	0.42
1:O:196:PRO:HA	1:O:199:ARG:NH2	2.34	0.42
1:P:33:ILE:HB	1:P:312:TRP:HE1	1.83	0.42
1:P:109:VAL:CG2	1:P:321:VAL:HG13	2.46	0.42
1:A:47:ASP:O	1:B:322:ALA:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:110:LEU:CD2	1:A:111:ALA:O	2.68	0.41
1:B:41:LYS:NZ	1:C:169:PHE:H	2.18	0.41
1:B:61:LEU:CD1	1:B:91:TYR:CD2	3.03	0.41
1:B:85:ILE:HG23	1:B:86:HIS:H	1.84	0.41
1:B:218:THR:C	1:C:275:LYS:HE3	2.40	0.41
1:C:27:LYS:HE2	1:C:35:ARG:NE	2.26	0.41
1:D:61:LEU:CD1	1:D:91:TYR:CD2	3.03	0.41
1:D:116:VAL:HG22	1:D:116:VAL:O	2.19	0.41
1:D:257:VAL:HG13	1:D:258:LYS:N	2.35	0.41
1:E:61:LEU:HD12	1:E:91:TYR:CB	2.49	0.41
1:E:110:LEU:CD2	1:E:111:ALA:O	2.68	0.41
1:E:131:LYS:HD2	1:E:149:ILE:HD11	1.99	0.41
1:F:43:TYR:CD2	1:F:67:LEU:CB	2.95	0.41
1:F:117:LEU:HD13	1:F:156:ALA:HB2	2.02	0.41
1:F:268:LEU:HD11	1:I:268:LEU:N	2.35	0.41
1:G:112:CYS:CB	1:G:122:ALA:HB1	2.50	0.41
1:G:184:MET:HG2	1:G:202:GLU:HB3	2.02	0.41
1:G:202:GLU:HG3	1:J:271:LYS:CD	2.49	0.41
1:G:272:ARG:N	1:J:202:GLU:HG2	2.34	0.41
1:I:325:LYS:HB2	1:J:48:GLY:HA2	1.50	0.41
1:J:7:GLU:CD	1:J:107:GLN:HE22	2.22	0.41
1:J:27:LYS:HZ1	1:J:35:ARG:HE	1.64	0.41
1:J:61:LEU:HD12	1:J:91:TYR:CB	2.49	0.41
1:J:109:VAL:CG2	1:J:318:LEU:HB3	2.48	0.41
1:K:36:VAL:C	1:K:312:TRP:CH2	2.93	0.41
1:K:112:CYS:CB	1:K:122:ALA:HB1	2.50	0.41
1:K:220:LEU:O	1:K:221:ASN:C	2.58	0.41
1:L:34:LYS:N	1:L:35:ARG:CA	2.82	0.41
1:L:52:ILE:CG1	1:P:245:GLU:O	2.61	0.41
1:L:269:ILE:HA	1:L:269:ILE:HD13	1.85	0.41
1:M:43:TYR:CD2	1:M:75:ASP:HB3	2.55	0.41
1:M:51:ASP:CA	1:M:74:GLU:OE2	2.65	0.41
1:M:257:VAL:HG13	1:M:258:LYS:N	2.35	0.41
1:M:322:ALA:N	1:N:47:ASP:O	2.53	0.41
1:N:322:ALA:N	1:O:47:ASP:O	2.53	0.41
1:O:35:ARG:O	1:O:36:VAL:HB	2.20	0.41
1:O:43:TYR:CD2	1:O:75:ASP:HB3	2.55	0.41
1:P:22:ILE:HD13	1:P:22:ILE:HG21	1.89	0.41
1:P:112:CYS:HG	1:P:122:ALA:HB1	1.84	0.41
1:A:36:VAL:C	1:A:312:TRP:CH2	2.93	0.41
1:A:196:PRO:HA	1:A:199:ARG:CZ	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:196:PRO:HA	1:A:199:ARG:NH2	2.34	0.41
1:A:220:LEU:O	1:A:234:ALA:O	2.37	0.41
1:A:227:THR:CG2	1:B:301:PRO:CD	2.93	0.41
1:B:203:GLU:O	1:B:204:HIS:HD2	2.02	0.41
1:C:99:ASP:O	1:C:99:ASP:OD1	2.37	0.41
1:D:36:VAL:C	1:D:312:TRP:CH2	2.93	0.41
1:D:43:TYR:CD2	1:D:75:ASP:HB3	2.55	0.41
1:D:284:PHE:CZ	1:D:304:SER:OG	2.68	0.41
1:E:43:TYR:HE2	1:E:67:LEU:HD13	1.78	0.41
1:E:117:LEU:HD13	1:E:156:ALA:HB2	2.02	0.41
1:G:27:LYS:HZ1	1:G:35:ARG:NH2	2.17	0.41
1:G:220:LEU:O	1:G:221:ASN:C	2.58	0.41
1:G:257:VAL:HG13	1:G:258:LYS:N	2.35	0.41
1:H:61:LEU:HD12	1:H:91:TYR:CB	2.49	0.41
1:H:257:VAL:HG13	1:H:258:LYS:N	2.35	0.41
1:I:22:ILE:HB	1:I:27:LYS:HE3	1.96	0.41
1:I:218:THR:HG23	1:I:219:ASP:CG	2.40	0.41
1:I:320:LYS:CA	1:N:246:ILE:HD11	2.47	0.41
1:J:43:TYR:CD2	1:J:67:LEU:CB	2.95	0.41
1:J:325:LYS:HB2	1:K:48:GLY:HA2	1.50	0.41
1:K:112:CYS:HG	1:K:122:ALA:HB1	1.83	0.41
1:K:257:VAL:HG13	1:K:258:LYS:N	2.35	0.41
1:L:132:GLY:N	1:L:149:ILE:CD1	2.83	0.41
1:L:211:ILE:HG13	1:L:212:ARG:N	2.34	0.41
1:M:22:ILE:HD13	1:M:22:ILE:HG21	1.88	0.41
1:M:85:ILE:HG23	1:M:86:HIS:H	1.84	0.41
1:N:116:VAL:HG22	1:N:116:VAL:O	2.19	0.41
1:O:203:GLU:O	1:O:204:HIS:HD2	2.02	0.41
1:P:49:TYR:CZ	1:P:75:ASP:HA	2.55	0.41
1:P:110:LEU:CD2	1:P:111:ALA:O	2.68	0.41
1:P:138:VAL:CG2	1:P:145:TYR:CE2	3.02	0.41
1:A:8:TYR:CE1	1:A:25:ASN:ND2	2.86	0.41
1:A:203:GLU:O	1:A:204:HIS:HD2	2.02	0.41
1:A:254:ILE:HG13	1:A:255:LYS:H	1.86	0.41
1:B:47:ASP:O	1:C:322:ALA:N	2.53	0.41
1:B:196:PRO:HA	1:B:199:ARG:NH2	2.34	0.41
1:B:257:VAL:HG13	1:B:258:LYS:N	2.35	0.41
1:C:52:ILE:HB	1:C:74:GLU:HA	2.03	0.41
1:D:27:LYS:HZ1	1:D:35:ARG:HE	1.66	0.41
1:D:99:ASP:OD1	1:D:99:ASP:O	2.37	0.41
1:D:220:LEU:HD12	1:D:220:LEU:N	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:35:ARG:O	1:E:36:VAL:HB	2.20	0.41
1:E:43:TYR:CD2	1:E:75:ASP:HB3	2.55	0.41
1:E:109:VAL:CG2	1:E:318:LEU:HB3	2.48	0.41
1:E:133:ASN:HD21	1:E:148:GLU:CB	2.33	0.41
1:E:173:ASN:ND2	1:E:279:LEU:CD2	2.70	0.41
1:F:133:ASN:HD21	1:F:148:GLU:CB	2.33	0.41
1:F:219:ASP:CA	1:G:277:ASP:CB	2.09	0.41
1:G:43:TYR:CD2	1:G:75:ASP:HB3	2.55	0.41
1:G:44:ASN:HB2	1:G:64:LYS:NZ	2.26	0.41
1:H:184:MET:HG2	1:H:202:GLU:HB3	2.01	0.41
1:I:7:GLU:CD	1:I:107:GLN:HE22	2.22	0.41
1:I:35:ARG:HH22	1:I:316:GLU:HG2	1.81	0.41
1:I:36:VAL:C	1:I:312:TRP:CH2	2.93	0.41
1:I:117:LEU:HD13	1:I:156:ALA:HB2	2.03	0.41
1:I:220:LEU:O	1:I:221:ASN:C	2.58	0.41
1:I:276:LEU:HD12	1:J:225:LEU:HD13	2.00	0.41
1:I:308:ASN:O	1:N:229:GLU:CD	2.58	0.41
1:J:61:LEU:CD1	1:J:91:TYR:CD2	3.03	0.41
1:K:61:LEU:CD1	1:K:91:TYR:CD2	3.03	0.41
1:K:99:ASP:HB3	1:K:145:TYR:OH	2.21	0.41
1:K:168:ASN:CB	1:L:71:GLN:HG3	2.49	0.41
1:K:245:GLU:OE2	1:P:52:ILE:CD1	2.68	0.41
1:K:276:LEU:O	1:L:225:LEU:CA	2.64	0.41
1:K:325:LYS:HB2	1:L:48:GLY:HA2	1.50	0.41
1:L:26:LYS:CG	1:L:97:VAL:HG22	2.48	0.41
1:L:112:CYS:CB	1:L:122:ALA:HB1	2.50	0.41
1:M:36:VAL:C	1:M:312:TRP:CH2	2.93	0.41
1:M:43:TYR:CE1	1:M:70:GLU:CG	2.95	0.41
1:M:43:TYR:HH	1:M:56:SER:HG	1.67	0.41
1:M:196:PRO:HA	1:M:199:ARG:CZ	2.49	0.41
1:M:220:LEU:HD12	1:M:220:LEU:N	2.34	0.41
1:N:36:VAL:C	1:N:312:TRP:CH2	2.93	0.41
1:N:109:VAL:HG11	1:N:318:LEU:O	2.19	0.41
1:N:172:LYS:HB3	1:N:280:ASP:OD2	2.21	0.41
1:O:172:LYS:HB3	1:O:280:ASP:OD2	2.21	0.41
1:O:220:LEU:O	1:O:221:ASN:C	2.58	0.41
1:O:310:SER:CA	1:O:313:THR:HG23	2.47	0.41
1:P:35:ARG:O	1:P:36:VAL:HB	2.20	0.41
1:C:49:TYR:CE2	1:C:50:ILE:O	2.74	0.41
1:C:61:LEU:CD1	1:C:91:TYR:CD2	3.03	0.41
1:C:198:GLU:HA	1:C:272:ARG:HG2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:34:LYS:H	1:D:35:ARG:HB2	1.79	0.41
1:D:35:ARG:O	1:D:36:VAL:HB	2.20	0.41
1:D:44:ASN:HB2	1:D:64:LYS:NZ	2.26	0.41
1:D:52:ILE:HB	1:D:74:GLU:HA	2.03	0.41
1:E:8:TYR:CE1	1:E:25:ASN:ND2	2.86	0.41
1:F:35:ARG:O	1:F:36:VAL:HB	2.20	0.41
1:F:49:TYR:CE2	1:F:50:ILE:O	2.74	0.41
1:G:58:LYS:HZ2	1:G:65:GLU:CG	2.33	0.41
1:G:117:LEU:HD13	1:G:156:ALA:HB2	2.03	0.41
1:H:43:TYR:HE2	1:H:67:LEU:HD13	1.78	0.41
1:H:117:LEU:HD13	1:H:156:ALA:HB2	2.03	0.41
1:H:132:GLY:N	1:H:149:ILE:CD1	2.83	0.41
1:H:133:ASN:HD21	1:H:148:GLU:CB	2.33	0.41
1:H:213:VAL:CG1	1:H:235:LEU:HD13	2.51	0.41
1:I:275:LYS:HE3	1:J:219:ASP:HB3	1.68	0.41
1:I:288:THR:HG22	1:I:292:LEU:HD13	2.03	0.41
1:J:49:TYR:CE2	1:J:50:ILE:O	2.74	0.41
1:J:99:ASP:HB3	1:J:145:TYR:OH	2.21	0.41
1:K:117:LEU:HD13	1:K:156:ALA:HB2	2.02	0.41
1:K:245:GLU:CD	1:P:51:ASP:O	2.52	0.41
1:L:8:TYR:CE1	1:L:25:ASN:ND2	2.86	0.41
1:L:43:TYR:CD2	1:L:75:ASP:HB3	2.55	0.41
1:L:99:ASP:HB3	1:L:145:TYR:OH	2.21	0.41
1:L:117:LEU:HD13	1:L:156:ALA:HB2	2.02	0.41
1:L:133:ASN:HD21	1:L:148:GLU:CB	2.33	0.41
1:L:254:ILE:HG13	1:L:255:LYS:H	1.86	0.41
1:M:213:VAL:CG1	1:M:235:LEU:HD13	2.51	0.41
1:M:220:LEU:O	1:M:234:ALA:O	2.37	0.41
1:M:275:LYS:HE3	1:N:218:THR:C	2.40	0.41
1:N:200:PHE:HB3	1:N:272:ARG:NE	2.35	0.41
1:O:27:LYS:HE2	1:O:35:ARG:CG	2.34	0.41
1:O:299:THR:O	1:P:227:THR:OG1	2.37	0.41
1:P:196:PRO:HA	1:P:199:ARG:CZ	2.50	0.41
1:P:200:PHE:HB3	1:P:272:ARG:NE	2.35	0.41
1:P:220:LEU:O	1:P:221:ASN:C	2.58	0.41
1:P:254:ILE:CG1	1:P:255:LYS:N	2.83	0.41
1:A:41:LYS:NZ	1:B:169:PHE:H	2.18	0.41
1:A:49:TYR:CE2	1:A:50:ILE:O	2.74	0.41
1:A:116:VAL:HG22	1:A:116:VAL:O	2.19	0.41
1:B:198:GLU:HA	1:B:272:ARG:HG2	2.03	0.41
1:C:41:LYS:NZ	1:D:169:PHE:H	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:131:LYS:HD2	1:C:149:ILE:HD11	1.99	0.41
1:C:218:THR:C	1:D:275:LYS:HE3	2.40	0.41
1:D:186:PHE:HD2	1:D:269:ILE:CD1	2.31	0.41
1:D:240:MET:CE	1:H:73:VAL:HG23	2.44	0.41
1:E:49:TYR:CE2	1:E:50:ILE:O	2.74	0.41
1:E:99:ASP:HB3	1:E:145:TYR:OH	2.21	0.41
1:F:61:LEU:HD12	1:F:91:TYR:CB	2.49	0.41
1:F:112:CYS:CB	1:F:122:ALA:HB1	2.50	0.41
1:F:228:ASN:N	1:G:301:PRO:O	2.54	0.41
1:G:61:LEU:HD12	1:G:91:TYR:CB	2.49	0.41
1:G:116:VAL:HB	1:G:121:LYS:NZ	2.36	0.41
1:G:132:GLY:N	1:G:149:ILE:CD1	2.83	0.41
1:H:116:VAL:HB	1:H:121:LYS:NZ	2.36	0.41
1:H:220:LEU:HD12	1:H:220:LEU:N	2.34	0.41
1:I:49:TYR:CE2	1:I:50:ILE:O	2.74	0.41
1:I:110:LEU:CA	1:I:318:LEU:HD13	2.36	0.41
1:I:116:VAL:HB	1:I:121:LYS:NZ	2.36	0.41
1:I:196:PRO:HA	1:I:199:ARG:CZ	2.50	0.41
1:I:211:ILE:HG13	1:I:212:ARG:N	2.34	0.41
1:I:277:ASP:CB	1:J:219:ASP:C	2.77	0.41
1:J:43:TYR:CE1	1:J:70:GLU:CG	2.95	0.41
1:J:43:TYR:CD2	1:J:75:ASP:HB3	2.55	0.41
1:K:44:ASN:OD1	1:K:64:LYS:HD2	2.21	0.41
1:K:211:ILE:HG13	1:K:212:ARG:N	2.34	0.41
1:K:301:PRO:O	1:L:228:ASN:N	2.54	0.41
1:L:44:ASN:OD1	1:L:64:LYS:HD2	2.21	0.41
1:L:49:TYR:CE2	1:L:50:ILE:O	2.74	0.41
1:L:120:ALA:C	1:L:124:GLU:HG2	2.40	0.41
1:M:61:LEU:CD1	1:M:91:TYR:CD2	3.03	0.41
1:M:172:LYS:HB3	1:M:280:ASP:OD2	2.21	0.41
1:N:85:ILE:HG23	1:N:86:HIS:H	1.84	0.41
1:N:99:ASP:HB3	1:N:145:TYR:OH	2.21	0.41
1:N:213:VAL:CG1	1:N:235:LEU:HD13	2.51	0.41
1:N:220:LEU:O	1:N:234:ALA:O	2.37	0.41
1:O:254:ILE:CG1	1:O:255:LYS:N	2.83	0.41
1:O:284:PHE:CE2	1:O:296:ILE:CG2	2.95	0.41
1:P:36:VAL:C	1:P:312:TRP:CH2	2.93	0.41
1:P:51:ASP:CA	1:P:74:GLU:OE2	2.66	0.41
1:P:172:LYS:HB3	1:P:280:ASP:OD2	2.21	0.41
1:P:257:VAL:HG13	1:P:258:LYS:N	2.35	0.41
1:A:198:GLU:HA	1:A:272:ARG:HG2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:226:ILE:HG12	1:B:302:ASN:HB2	1.16	0.41
1:B:8:TYR:CE1	1:B:25:ASN:ND2	2.86	0.41
1:B:36:VAL:C	1:B:312:TRP:CH2	2.93	0.41
1:B:52:ILE:HB	1:B:74:GLU:HA	2.03	0.41
1:B:142:ASP:HB3	1:B:143:LYS:HB2	2.03	0.41
1:C:35:ARG:O	1:C:36:VAL:HB	2.20	0.41
1:C:44:ASN:OD1	1:C:64:LYS:HD2	2.21	0.41
1:C:50:ILE:CG1	1:D:320:LYS:NZ	2.72	0.41
1:C:99:ASP:HB3	1:C:145:TYR:OH	2.21	0.41
1:C:116:VAL:HG22	1:C:116:VAL:O	2.19	0.41
1:C:196:PRO:HA	1:C:199:ARG:NH2	2.34	0.41
1:C:247:ASP:O	1:G:52:ILE:HG23	2.11	0.41
1:D:110:LEU:CD2	1:D:111:ALA:O	2.68	0.41
1:D:112:CYS:CB	1:D:122:ALA:HB1	2.50	0.41
1:D:198:GLU:HA	1:D:272:ARG:HG2	2.03	0.41
1:E:26:LYS:CG	1:E:97:VAL:HG22	2.48	0.41
1:E:138:VAL:CG2	1:E:145:TYR:CE2	3.02	0.41
1:E:213:VAL:CG1	1:E:235:LEU:HD13	2.51	0.41
1:E:220:LEU:O	1:E:221:ASN:C	2.58	0.41
1:F:43:TYR:HE2	1:F:67:LEU:HD13	1.78	0.41
1:F:99:ASP:HB3	1:F:145:TYR:OH	2.21	0.41
1:F:116:VAL:HB	1:F:121:LYS:NZ	2.36	0.41
1:F:257:VAL:HG13	1:F:258:LYS:N	2.35	0.41
1:G:35:ARG:O	1:G:36:VAL:HB	2.20	0.41
1:G:49:TYR:CE2	1:G:50:ILE:O	2.74	0.41
1:G:133:ASN:HD21	1:G:148:GLU:CB	2.33	0.41
1:H:35:ARG:O	1:H:36:VAL:HB	2.20	0.41
1:H:45:LEU:HD23	1:H:58:LYS:HZ1	1.86	0.41
1:H:66:TYR:CZ	1:H:88:LEU:CD2	3.01	0.41
1:H:198:GLU:HA	1:H:272:ARG:HG2	2.02	0.41
1:H:218:THR:HG23	1:H:219:ASP:CG	2.40	0.41
1:I:99:ASP:HB3	1:I:145:TYR:OH	2.21	0.41
1:J:110:LEU:CD2	1:J:111:ALA:O	2.68	0.41
1:J:310:SER:CA	1:J:313:THR:HG23	2.47	0.41
1:K:184:MET:HG2	1:K:202:GLU:HB3	2.01	0.41
1:K:320:LYS:CA	1:P:246:ILE:CG1	2.93	0.41
1:L:51:ASP:CA	1:L:74:GLU:OE2	2.65	0.41
1:L:61:LEU:CD1	1:L:91:TYR:CD2	3.03	0.41
1:L:179:PHE:HB2	1:L:288:THR:HB	1.93	0.41
1:M:49:TYR:CZ	1:M:75:ASP:HA	2.55	0.41
1:M:220:LEU:O	1:M:221:ASN:C	2.58	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:127:ARG:HE	1:N:154:ILE:HD12	1.86	0.41
1:N:220:LEU:O	1:N:221:ASN:C	2.58	0.41
1:N:254:ILE:CG1	1:N:255:LYS:N	2.83	0.41
1:O:213:VAL:CG1	1:O:235:LEU:HD13	2.51	0.41
1:O:322:ALA:N	1:P:47:ASP:O	2.54	0.41
1:P:52:ILE:HB	1:P:74:GLU:HA	2.03	0.41
1:P:120:ALA:C	1:P:124:GLU:HG2	2.40	0.41
1:A:44:ASN:OD1	1:A:64:LYS:HD2	2.21	0.41
1:B:44:ASN:OD1	1:B:64:LYS:HD2	2.21	0.41
1:B:112:CYS:CB	1:B:122:ALA:HB1	2.50	0.41
1:B:119:ASN:CG	1:B:120:ALA:N	2.72	0.41
1:B:229:GLU:CB	1:G:308:ASN:CB	2.49	0.41
1:C:36:VAL:C	1:C:312:TRP:CH2	2.93	0.41
1:C:43:TYR:CD1	1:C:67:LEU:O	2.74	0.41
1:C:203:GLU:O	1:C:204:HIS:HD2	2.02	0.41
1:D:44:ASN:OD1	1:D:64:LYS:HD2	2.21	0.41
1:D:127:ARG:HE	1:D:154:ILE:HD12	1.86	0.41
1:E:227:THR:CG2	1:F:300:TYR:H	2.31	0.41
1:F:220:LEU:O	1:F:221:ASN:C	2.58	0.41
1:G:99:ASP:HB3	1:G:145:TYR:OH	2.21	0.41
1:G:172:LYS:HB3	1:G:280:ASP:OD2	2.21	0.41
1:G:220:LEU:HD12	1:G:220:LEU:N	2.34	0.41
1:I:8:TYR:CE1	1:I:25:ASN:ND2	2.86	0.41
1:I:43:TYR:CE1	1:I:70:GLU:CG	2.95	0.41
1:I:127:ARG:HE	1:I:154:ILE:HD12	1.86	0.41
1:J:8:TYR:CE1	1:J:25:ASN:ND2	2.86	0.41
1:J:43:TYR:CD1	1:J:67:LEU:O	2.74	0.41
1:J:116:VAL:HB	1:J:121:LYS:NZ	2.36	0.41
1:J:117:LEU:HD13	1:J:156:ALA:HB2	2.03	0.41
1:J:168:ASN:CB	1:K:71:GLN:HG3	2.49	0.41
1:J:288:THR:HG22	1:J:292:LEU:HD13	2.03	0.41
1:K:26:LYS:CG	1:K:97:VAL:HG22	2.48	0.41
1:K:43:TYR:CE1	1:K:70:GLU:CG	2.95	0.41
1:K:132:GLY:N	1:K:149:ILE:CD1	2.83	0.41
1:K:159:SER:OG	1:K:163:PHE:CE1	2.67	0.41
1:L:43:TYR:HH	1:L:56:SER:HG	1.64	0.41
1:L:172:LYS:HB3	1:L:280:ASP:OD2	2.21	0.41
1:M:198:GLU:HA	1:M:272:ARG:HG2	2.02	0.41
1:M:254:ILE:CG1	1:M:255:LYS:N	2.83	0.41
1:N:49:TYR:CE2	1:N:50:ILE:O	2.74	0.41
1:N:133:ASN:HD21	1:N:148:GLU:CB	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:27:LYS:HZ1	1:O:35:ARG:HH21	1.67	0.41
1:O:43:TYR:HB3	1:O:78:GLU:CA	2.51	0.41
1:O:85:ILE:HG23	1:O:86:HIS:H	1.84	0.41
1:O:142:ASP:HB3	1:O:143:LYS:HB2	2.03	0.41
1:P:43:TYR:HB3	1:P:78:GLU:CA	2.51	0.41
1:P:49:TYR:CE2	1:P:50:ILE:O	2.74	0.41
1:P:85:ILE:HG23	1:P:86:HIS:H	1.84	0.41
1:A:132:GLY:N	1:A:149:ILE:CD1	2.83	0.41
1:A:142:ASP:HB3	1:A:143:LYS:HB2	2.03	0.41
1:A:299:THR:HG22	1:A:300:TYR:HD1	1.86	0.41
1:B:43:TYR:CD1	1:B:67:LEU:O	2.74	0.41
1:B:51:ASP:CA	1:B:74:GLU:OE2	2.66	0.41
1:B:99:ASP:HB3	1:B:145:TYR:OH	2.21	0.41
1:C:85:ILE:HG23	1:C:86:HIS:H	1.84	0.41
1:C:227:THR:CG2	1:D:300:TYR:C	2.66	0.41
1:C:245:GLU:O	1:G:74:GLU:O	2.38	0.41
1:C:299:THR:HG22	1:C:300:TYR:HD1	1.86	0.41
1:D:43:TYR:CD1	1:D:67:LEU:O	2.74	0.41
1:D:203:GLU:O	1:D:204:HIS:HD2	2.02	0.41
1:E:116:VAL:HB	1:E:121:LYS:NZ	2.36	0.41
1:F:8:TYR:CE1	1:F:25:ASN:ND2	2.86	0.41
1:F:50:ILE:HG22	1:G:323:VAL:CB	2.33	0.41
1:F:110:LEU:CD2	1:F:111:ALA:O	2.68	0.41
1:F:127:ARG:HE	1:F:154:ILE:HD12	1.86	0.41
1:F:132:GLY:N	1:F:149:ILE:CD1	2.83	0.41
1:G:43:TYR:HE2	1:G:67:LEU:HD13	1.77	0.41
1:H:172:LYS:HB3	1:H:280:ASP:OD2	2.21	0.41
1:H:254:ILE:HG13	1:H:255:LYS:H	1.86	0.41
1:I:43:TYR:CD1	1:I:67:LEU:O	2.74	0.41
1:I:300:TYR:HB3	1:J:227:THR:H	1.59	0.41
1:J:257:VAL:HG13	1:J:258:LYS:N	2.35	0.41
1:K:43:TYR:CD1	1:K:67:LEU:O	2.74	0.41
1:K:49:TYR:CE2	1:K:50:ILE:O	2.74	0.41
1:K:288:THR:HG22	1:K:292:LEU:HD13	2.03	0.41
1:L:200:PHE:HB3	1:L:272:ARG:NE	2.35	0.41
1:M:34:LYS:H	1:M:35:ARG:HB2	1.79	0.41
1:M:49:TYR:CE2	1:M:50:ILE:O	2.74	0.41
1:M:169:PHE:H	1:N:41:LYS:NZ	2.18	0.41
1:N:49:TYR:CZ	1:N:75:ASP:HA	2.55	0.41
1:N:110:LEU:CD2	1:N:111:ALA:O	2.68	0.41
1:O:43:TYR:CE1	1:O:70:GLU:CG	2.95	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:117:LEU:HD13	1:O:156:ALA:HB2	2.02	0.41
1:O:257:VAL:HG13	1:O:258:LYS:N	2.35	0.41
1:P:44:ASN:HB2	1:P:64:LYS:NZ	2.26	0.41
1:P:99:ASP:HB3	1:P:145:TYR:OH	2.21	0.41
1:P:213:VAL:CG1	1:P:235:LEU:HD13	2.51	0.41
1:A:43:TYR:CD1	1:A:67:LEU:O	2.74	0.41
1:A:43:TYR:HH	1:A:56:SER:HG	1.67	0.41
1:A:49:TYR:CZ	1:A:75:ASP:HA	2.56	0.41
1:A:52:ILE:HB	1:A:74:GLU:HA	2.03	0.41
1:A:127:ARG:HE	1:A:154:ILE:HD12	1.86	0.41
1:A:245:GLU:O	1:E:74:GLU:HA	2.21	0.41
1:B:27:LYS:HE2	1:B:35:ARG:NE	2.26	0.41
1:B:49:TYR:CE2	1:B:50:ILE:O	2.74	0.41
1:B:107:GLN:CB	1:B:151:ASP:OD1	2.69	0.41
1:B:116:VAL:HG21	1:B:121:LYS:HZ2	1.85	0.41
1:B:116:VAL:HB	1:B:121:LYS:NZ	2.36	0.41
1:B:132:GLY:N	1:B:149:ILE:CD1	2.83	0.41
1:B:138:VAL:CG2	1:B:145:TYR:CE2	3.02	0.41
1:B:240:MET:HE1	1:F:73:VAL:HG21	1.68	0.41
1:C:8:TYR:CE1	1:C:25:ASN:ND2	2.86	0.41
1:C:49:TYR:CZ	1:C:75:ASP:HA	2.55	0.41
1:C:110:LEU:CD2	1:C:111:ALA:O	2.68	0.41
1:C:123:LYS:HZ3	1:C:127:ARG:HH12	1.69	0.41
1:C:142:ASP:HB3	1:C:143:LYS:HB2	2.03	0.41
1:C:172:LYS:HB3	1:C:280:ASP:OD2	2.21	0.41
1:D:49:TYR:CE2	1:D:50:ILE:O	2.74	0.41
1:D:99:ASP:HB3	1:D:145:TYR:OH	2.21	0.41
1:D:109:VAL:CG2	1:D:321:VAL:HG13	2.46	0.41
1:D:117:LEU:HD12	1:D:156:ALA:N	2.36	0.41
1:D:213:VAL:CG1	1:D:235:LEU:HD13	2.51	0.41
1:D:218:THR:HG23	1:D:219:ASP:CG	2.40	0.41
1:D:220:LEU:O	1:D:221:ASN:C	2.58	0.41
1:D:245:GLU:OE2	1:H:78:GLU:OE1	2.38	0.41
1:D:245:GLU:O	1:H:74:GLU:C	2.59	0.41
1:D:296:ILE:O	1:D:296:ILE:HG13	2.18	0.41
1:E:44:ASN:OD1	1:E:64:LYS:HD2	2.21	0.41
1:E:49:TYR:C	1:F:323:VAL:CA	2.53	0.41
1:E:112:CYS:CB	1:E:122:ALA:HB1	2.50	0.41
1:E:132:GLY:N	1:E:149:ILE:CD1	2.83	0.41
1:E:139:LYS:O	1:E:142:ASP:O	2.39	0.41
1:E:218:THR:C	1:F:275:LYS:CG	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:227:THR:CG2	1:F:300:TYR:N	2.62	0.41
1:E:228:ASN:N	1:F:301:PRO:O	2.54	0.41
1:E:259:GLU:HG3	1:E:263:LYS:HE3	2.03	0.41
1:F:198:GLU:HA	1:F:272:ARG:HG2	2.03	0.41
1:F:213:VAL:CG1	1:F:235:LEU:HD13	2.51	0.41
1:F:220:LEU:HD12	1:F:220:LEU:N	2.34	0.41
1:F:259:GLU:HG3	1:F:263:LYS:HE3	2.03	0.41
1:G:26:LYS:CG	1:G:97:VAL:HG22	2.48	0.41
1:G:79:THR:C	1:H:170:LYS:HE2	2.41	0.41
1:G:139:LYS:O	1:G:142:ASP:O	2.39	0.41
1:G:198:GLU:HA	1:G:272:ARG:HG2	2.03	0.41
1:G:200:PHE:HB3	1:G:272:ARG:NE	2.35	0.41
1:G:226:ILE:HD12	1:H:303:ASN:C	2.11	0.41
1:G:228:ASN:N	1:H:301:PRO:O	2.54	0.41
1:H:26:LYS:CG	1:H:97:VAL:HG22	2.48	0.41
1:H:44:ASN:OD1	1:H:64:LYS:HD2	2.21	0.41
1:H:49:TYR:CZ	1:H:75:ASP:HA	2.55	0.41
1:H:99:ASP:HB3	1:H:145:TYR:OH	2.21	0.41
1:H:127:ARG:HE	1:H:154:ILE:HD12	1.86	0.41
1:I:120:ALA:C	1:I:124:GLU:HG2	2.40	0.41
1:I:139:LYS:O	1:I:142:ASP:O	2.39	0.41
1:I:172:LYS:HB3	1:I:280:ASP:OD2	2.21	0.41
1:I:213:VAL:CG1	1:I:235:LEU:HD13	2.51	0.41
1:I:221:ASN:O	1:I:223:GLY:N	2.54	0.41
1:I:275:LYS:CG	1:J:218:THR:C	2.89	0.41
1:I:301:PRO:O	1:J:228:ASN:N	2.54	0.41
1:J:26:LYS:CG	1:J:97:VAL:HG22	2.48	0.41
1:J:44:ASN:OD1	1:J:64:LYS:HD2	2.21	0.41
1:J:120:ALA:C	1:J:124:GLU:HG2	2.40	0.41
1:J:133:ASN:HD21	1:J:148:GLU:CB	2.33	0.41
1:J:166:GLN:CA	1:O:242:LYS:O	2.57	0.41
1:J:172:LYS:HB3	1:J:280:ASP:OD2	2.21	0.41
1:J:186:PHE:HD2	1:J:269:ILE:CD1	2.32	0.41
1:J:220:LEU:O	1:J:221:ASN:C	2.58	0.41
1:J:221:ASN:O	1:J:223:GLY:N	2.54	0.41
1:J:275:LYS:CG	1:K:218:THR:C	2.89	0.41
1:K:120:ALA:C	1:K:124:GLU:HG2	2.40	0.41
1:K:133:ASN:HD21	1:K:148:GLU:CB	2.33	0.41
1:K:139:LYS:O	1:K:142:ASP:O	2.39	0.41
1:K:172:LYS:HB3	1:K:280:ASP:OD2	2.21	0.41
1:K:233:SER:O	1:K:234:ALA:O	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:43:TYR:CD1	1:L:67:LEU:O	2.74	0.41
1:L:138:VAL:CG2	1:L:145:TYR:CE2	3.03	0.41
1:L:139:LYS:O	1:L:142:ASP:O	2.39	0.41
1:L:259:GLU:HG3	1:L:263:LYS:HE3	2.03	0.41
1:M:52:ILE:HB	1:M:74:GLU:HA	2.03	0.41
1:M:59:ILE:HD13	1:M:92:THR:HG22	2.03	0.41
1:M:107:GLN:CB	1:M:151:ASP:OD1	2.69	0.41
1:M:116:VAL:HB	1:M:121:LYS:NZ	2.36	0.41
1:M:139:LYS:O	1:M:142:ASP:O	2.39	0.41
1:M:209:LEU:HD12	1:M:257:VAL:HG22	2.03	0.41
1:N:43:TYR:CD2	1:N:75:ASP:HB3	2.55	0.41
1:N:52:ILE:HB	1:N:74:GLU:HA	2.03	0.41
1:N:117:LEU:HD13	1:N:156:ALA:HB2	2.03	0.41
1:N:139:LYS:O	1:N:142:ASP:O	2.39	0.41
1:N:142:ASP:HB3	1:N:143:LYS:HB2	2.03	0.41
1:N:198:GLU:HA	1:N:272:ARG:HG2	2.02	0.41
1:N:299:THR:HG22	1:N:300:TYR:HD1	1.86	0.41
1:O:49:TYR:CE2	1:O:50:ILE:O	2.74	0.41
1:O:52:ILE:HB	1:O:74:GLU:HA	2.03	0.41
1:O:120:ALA:C	1:O:124:GLU:HG2	2.40	0.41
1:O:139:LYS:O	1:O:142:ASP:O	2.39	0.41
1:O:220:LEU:O	1:O:234:ALA:O	2.37	0.41
1:O:288:THR:HG22	1:O:292:LEU:HD13	2.03	0.41
1:O:301:PRO:HD3	1:P:227:THR:CB	1.89	0.41
1:P:43:TYR:CD1	1:P:67:LEU:O	2.74	0.41
1:P:45:LEU:N	1:P:67:LEU:HD12	2.36	0.41
1:P:117:LEU:HD13	1:P:156:ALA:HB2	2.03	0.41
1:P:127:ARG:HE	1:P:154:ILE:HD12	1.86	0.41
1:P:139:LYS:O	1:P:142:ASP:O	2.39	0.41
1:P:221:ASN:O	1:P:223:GLY:N	2.54	0.41
1:P:288:THR:HG22	1:P:292:LEU:HD13	2.03	0.41
1:A:107:GLN:CB	1:A:151:ASP:OD1	2.69	0.41
1:B:149:ILE:HD13	1:B:149:ILE:HG21	1.74	0.41
1:B:227:THR:CG2	1:C:301:PRO:CD	2.93	0.41
1:C:233:SER:O	1:C:234:ALA:O	2.39	0.41
1:D:44:ASN:CB	1:D:64:LYS:NZ	2.84	0.41
1:D:95:THR:HG23	1:D:95:THR:H	1.70	0.41
1:D:221:ASN:O	1:D:223:GLY:N	2.54	0.41
1:E:107:GLN:CB	1:E:151:ASP:OD1	2.69	0.41
1:E:117:LEU:HD12	1:E:156:ALA:N	2.36	0.41
1:E:172:LYS:HB3	1:E:280:ASP:OD2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:26:LYS:CG	1:F:97:VAL:HG22	2.48	0.41
1:F:45:LEU:HD23	1:F:58:LYS:NZ	2.36	0.41
1:F:139:LYS:O	1:F:142:ASP:O	2.39	0.41
1:G:48:GLY:HA2	1:H:325:LYS:HB2	1.50	0.41
1:G:51:ASP:CA	1:G:74:GLU:OE2	2.65	0.41
1:G:233:SER:O	1:G:234:ALA:O	2.39	0.41
1:G:254:ILE:HG13	1:G:255:LYS:H	1.86	0.41
1:G:299:THR:HG22	1:G:300:TYR:HD1	1.86	0.41
1:H:44:ASN:HB2	1:H:64:LYS:NZ	2.26	0.41
1:H:49:TYR:CE2	1:H:50:ILE:O	2.74	0.41
1:H:107:GLN:CB	1:H:151:ASP:OD1	2.69	0.41
1:H:139:LYS:O	1:H:142:ASP:O	2.39	0.41
1:H:221:ASN:O	1:H:223:GLY:N	2.54	0.41
1:H:291:LYS:HG2	1:H:292:LEU:HD12	2.03	0.41
1:I:107:GLN:CB	1:I:151:ASP:OD1	2.69	0.41
1:I:132:GLY:N	1:I:149:ILE:CD1	2.83	0.41
1:I:168:ASN:CB	1:J:71:GLN:HG3	2.49	0.41
1:J:52:ILE:HA	1:N:248:THR:CG2	2.46	0.41
1:J:132:GLY:N	1:J:149:ILE:CD1	2.83	0.41
1:J:139:LYS:O	1:J:142:ASP:O	2.39	0.41
1:J:241:LYS:O	1:N:308:ASN:ND2	2.45	0.41
1:K:45:LEU:HD23	1:K:58:LYS:NZ	2.36	0.41
1:K:127:ARG:HE	1:K:154:ILE:HD12	1.86	0.41
1:K:209:LEU:HD12	1:K:257:VAL:HG22	2.03	0.41
1:K:275:LYS:CG	1:L:218:THR:C	2.89	0.41
1:L:117:LEU:HD12	1:L:156:ALA:N	2.36	0.41
1:M:117:LEU:HD13	1:M:156:ALA:HB2	2.03	0.41
1:N:107:GLN:CB	1:N:151:ASP:OD1	2.69	0.41
1:O:44:ASN:OD1	1:O:64:LYS:HD2	2.21	0.41
1:O:45:LEU:HD23	1:O:58:LYS:NZ	2.37	0.41
1:O:221:ASN:O	1:O:223:GLY:N	2.54	0.41
1:O:275:LYS:HE3	1:P:218:THR:C	2.40	0.41
1:P:45:LEU:HD23	1:P:58:LYS:HZ1	1.86	0.41
1:P:142:ASP:HB3	1:P:143:LYS:HB2	2.03	0.41
1:P:209:LEU:HD12	1:P:257:VAL:HG22	2.03	0.41
1:A:110:LEU:HD23	1:A:111:ALA:H	1.85	0.40
1:A:117:LEU:HD12	1:A:156:ALA:N	2.36	0.40
1:A:242:LYS:HA	1:F:165:GLU:CA	2.51	0.40
1:A:257:VAL:HG13	1:A:258:LYS:N	2.35	0.40
1:B:44:ASN:CB	1:B:64:LYS:NZ	2.84	0.40
1:B:61:LEU:HD23	1:B:61:LEU:C	2.42	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:117:LEU:HD12	1:B:156:ALA:N	2.36	0.40
1:B:172:LYS:HB3	1:B:280:ASP:OD2	2.21	0.40
1:C:46:GLU:O	1:D:323:VAL:CG2	2.70	0.40
1:C:61:LEU:HD23	1:C:61:LEU:C	2.42	0.40
1:C:116:VAL:HB	1:C:121:LYS:NZ	2.36	0.40
1:C:213:VAL:CG1	1:C:235:LEU:HD13	2.51	0.40
1:D:11:THR:HB	1:D:22:ILE:HG13	2.01	0.40
1:D:49:TYR:CZ	1:D:75:ASP:HA	2.56	0.40
1:D:85:ILE:HG23	1:D:86:HIS:H	1.84	0.40
1:D:116:VAL:HB	1:D:121:LYS:NZ	2.36	0.40
1:D:172:LYS:HB3	1:D:280:ASP:OD2	2.21	0.40
1:E:45:LEU:CB	1:E:67:LEU:HD11	2.41	0.40
1:E:198:GLU:HA	1:E:272:ARG:HG2	2.03	0.40
1:E:291:LYS:HG2	1:E:292:LEU:HD12	2.03	0.40
1:F:44:ASN:CB	1:F:64:LYS:NZ	2.84	0.40
1:F:110:LEU:HD23	1:F:111:ALA:H	1.86	0.40
1:F:138:VAL:CG2	1:F:145:TYR:CE2	3.03	0.40
1:F:172:LYS:HB3	1:F:280:ASP:OD2	2.21	0.40
1:F:218:THR:C	1:G:275:LYS:CG	2.89	0.40
1:G:213:VAL:CG1	1:G:235:LEU:HD13	2.51	0.40
1:G:218:THR:C	1:H:275:LYS:CG	2.89	0.40
1:H:11:THR:HB	1:H:22:ILE:HG13	2.01	0.40
1:H:36:VAL:N	1:H:312:TRP:CH2	2.80	0.40
1:H:52:ILE:HB	1:H:74:GLU:HA	2.03	0.40
1:H:159:SER:OG	1:H:163:PHE:CE1	2.67	0.40
1:H:284:PHE:CD1	1:H:284:PHE:N	2.90	0.40
1:H:288:THR:HG22	1:H:292:LEU:HD13	2.03	0.40
1:I:209:LEU:HD12	1:I:257:VAL:HG22	2.03	0.40
1:J:209:LEU:HD12	1:J:257:VAL:HG22	2.03	0.40
1:J:213:VAL:CG1	1:J:235:LEU:HD13	2.51	0.40
1:K:36:VAL:HG23	1:K:38:PHE:CZ	2.57	0.40
1:K:107:GLN:CB	1:K:151:ASP:OD1	2.69	0.40
1:K:116:VAL:HB	1:K:121:LYS:NZ	2.36	0.40
1:K:117:LEU:HD12	1:K:156:ALA:N	2.36	0.40
1:K:142:ASP:HB3	1:K:143:LYS:HB2	2.03	0.40
1:L:52:ILE:HD13	1:P:248:THR:CG2	2.44	0.40
1:L:95:THR:HG21	1:L:136:ILE:HG21	1.96	0.40
1:L:127:ARG:HE	1:L:154:ILE:HD12	1.86	0.40
1:L:142:ASP:HB3	1:L:143:LYS:HB2	2.03	0.40
1:L:209:LEU:HD12	1:L:257:VAL:HG22	2.03	0.40
1:L:262:LEU:O	1:L:266:ILE:HG12	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:68:ILE:HG21	1:M:92:THR:CB	2.52	0.40
1:M:99:ASP:HB3	1:M:145:TYR:OH	2.21	0.40
1:M:214:GLY:HA3	1:M:220:LEU:HG	2.03	0.40
1:M:221:ASN:O	1:M:223:GLY:N	2.54	0.40
1:N:27:LYS:HE2	1:N:35:ARG:CG	2.34	0.40
1:N:59:ILE:HD13	1:N:92:THR:HG22	2.03	0.40
1:N:131:LYS:HD2	1:N:149:ILE:HD11	1.99	0.40
1:N:209:LEU:HD12	1:N:257:VAL:HG22	2.03	0.40
1:N:214:GLY:HA3	1:N:220:LEU:HG	2.03	0.40
1:N:221:ASN:O	1:N:223:GLY:N	2.54	0.40
1:N:222:ASN:HD22	1:N:237:ASN:HB2	1.75	0.40
1:N:233:SER:O	1:N:234:ALA:O	2.39	0.40
1:N:288:THR:HG22	1:N:292:LEU:HD13	2.03	0.40
1:O:43:TYR:CD1	1:O:67:LEU:O	2.74	0.40
1:O:45:LEU:N	1:O:67:LEU:HD12	2.37	0.40
1:P:87:LYS:HG2	1:P:129:TYR:CD2	2.56	0.40
1:A:61:LEU:HD23	1:A:61:LEU:C	2.42	0.40
1:A:116:VAL:HB	1:A:121:LYS:NZ	2.36	0.40
1:A:120:ALA:C	1:A:124:GLU:HG2	2.41	0.40
1:A:131:LYS:HD2	1:A:149:ILE:HD11	1.99	0.40
1:A:139:LYS:O	1:A:142:ASP:O	2.39	0.40
1:A:209:LEU:HD12	1:A:257:VAL:HG22	2.03	0.40
1:A:284:PHE:CD1	1:A:284:PHE:N	2.89	0.40
1:B:27:LYS:HZ1	1:B:35:ARG:NH2	2.20	0.40
1:B:34:LYS:H	1:B:35:ARG:HB2	1.79	0.40
1:B:45:LEU:N	1:B:67:LEU:HD12	2.36	0.40
1:B:269:ILE:HG23	1:B:269:ILE:HD12	1.90	0.40
1:C:11:THR:HB	1:C:22:ILE:HG13	2.01	0.40
1:C:43:TYR:HB3	1:C:78:GLU:CA	2.51	0.40
1:C:107:GLN:CB	1:C:151:ASP:OD1	2.69	0.40
1:C:117:LEU:HD12	1:C:156:ALA:N	2.36	0.40
1:C:132:GLY:N	1:C:149:ILE:CD1	2.83	0.40
1:C:221:ASN:O	1:C:223:GLY:N	2.54	0.40
1:C:248:THR:CG2	1:G:52:ILE:HD12	2.49	0.40
1:C:273:GLY:O	1:C:274:PHE:CD2	2.75	0.40
1:C:296:ILE:O	1:C:296:ILE:HG13	2.18	0.40
1:D:87:LYS:HG2	1:D:129:TYR:CD2	2.56	0.40
1:D:233:SER:O	1:D:234:ALA:O	2.39	0.40
1:E:45:LEU:HD23	1:E:58:LYS:NZ	2.36	0.40
1:E:110:LEU:HD23	1:E:111:ALA:H	1.86	0.40
1:E:254:ILE:CG1	1:E:255:LYS:N	2.83	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:43:TYR:CD1	1:F:67:LEU:O	2.74	0.40
1:F:44:ASN:OD1	1:F:64:LYS:HD2	2.21	0.40
1:F:117:LEU:HD12	1:F:156:ALA:N	2.36	0.40
1:F:272:ARG:HG3	1:I:203:GLU:H	0.63	0.40
1:G:44:ASN:OD1	1:G:64:LYS:HD2	2.21	0.40
1:G:52:ILE:HB	1:G:74:GLU:HA	2.03	0.40
1:G:110:LEU:HD23	1:G:111:ALA:H	1.86	0.40
1:G:221:ASN:O	1:G:223:GLY:N	2.54	0.40
1:H:110:LEU:HD23	1:H:111:ALA:H	1.86	0.40
1:H:203:GLU:OE1	1:K:198:GLU:HG2	2.21	0.40
1:J:273:GLY:O	1:J:274:PHE:CD2	2.75	0.40
1:J:276:LEU:O	1:K:225:LEU:CA	2.64	0.40
1:K:61:LEU:HD23	1:K:61:LEU:C	2.42	0.40
1:K:95:THR:HG21	1:K:136:ILE:HG21	1.97	0.40
1:K:221:ASN:O	1:K:223:GLY:N	2.54	0.40
1:L:213:VAL:CG1	1:L:235:LEU:HD13	2.51	0.40
1:M:45:LEU:HD23	1:M:58:LYS:NZ	2.36	0.40
1:M:132:GLY:N	1:M:149:ILE:CD1	2.83	0.40
1:M:323:VAL:CG2	1:N:46:GLU:O	2.70	0.40
1:N:45:LEU:N	1:N:67:LEU:HD12	2.36	0.40
1:N:120:ALA:C	1:N:124:GLU:HG2	2.40	0.40
1:N:273:GLY:O	1:N:274:PHE:CD2	2.75	0.40
1:O:59:ILE:HD13	1:O:92:THR:HG22	2.03	0.40
1:O:68:ILE:HG21	1:O:92:THR:CB	2.52	0.40
1:O:169:PHE:H	1:P:41:LYS:NZ	2.18	0.40
1:O:273:GLY:O	1:O:274:PHE:CD2	2.75	0.40
1:P:44:ASN:OD1	1:P:64:LYS:HD2	2.21	0.40
1:P:284:PHE:CD1	1:P:284:PHE:N	2.90	0.40
1:P:310:SER:CA	1:P:313:THR:HG23	2.47	0.40
1:A:45:LEU:N	1:A:67:LEU:HD12	2.37	0.40
1:A:87:LYS:HG2	1:A:129:TYR:CD2	2.56	0.40
1:A:99:ASP:HB3	1:A:145:TYR:OH	2.21	0.40
1:A:172:LYS:HB3	1:A:280:ASP:OD2	2.21	0.40
1:A:218:THR:C	1:B:275:LYS:HE3	2.40	0.40
1:A:220:LEU:O	1:A:221:ASN:C	2.58	0.40
1:A:246:ILE:CG1	1:E:49:TYR:CG	3.01	0.40
1:A:259:GLU:HG3	1:A:263:LYS:HE3	2.03	0.40
1:A:310:SER:CA	1:A:313:THR:HG23	2.47	0.40
1:B:11:THR:HB	1:B:22:ILE:HG13	2.01	0.40
1:B:43:TYR:HH	1:B:56:SER:HG	1.66	0.40
1:B:46:GLU:O	1:C:323:VAL:CG2	2.70	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:59:ILE:HD13	1:B:92:THR:HG22	2.03	0.40
1:B:76:SER:HG	1:C:163:PHE:HA	1.82	0.40
1:B:87:LYS:HG2	1:B:129:TYR:CD2	2.56	0.40
1:B:110:LEU:HD23	1:B:111:ALA:H	1.85	0.40
1:B:120:ALA:C	1:B:124:GLU:HG2	2.40	0.40
1:B:127:ARG:HE	1:B:154:ILE:HD12	1.86	0.40
1:B:139:LYS:O	1:B:142:ASP:O	2.39	0.40
1:B:230:GLN:CD	1:G:306:ILE:HG21	2.41	0.40
1:C:59:ILE:HD13	1:C:92:THR:HG22	2.03	0.40
1:C:87:LYS:HG2	1:C:129:TYR:CD2	2.56	0.40
1:C:127:ARG:HE	1:C:154:ILE:HD12	1.86	0.40
1:C:310:SER:CA	1:C:313:THR:HG23	2.47	0.40
1:E:61:LEU:HD23	1:E:61:LEU:C	2.42	0.40
1:E:209:LEU:HD12	1:E:257:VAL:HG22	2.03	0.40
1:E:220:LEU:HD12	1:E:220:LEU:N	2.34	0.40
1:F:61:LEU:HD23	1:F:61:LEU:C	2.42	0.40
1:F:201:ILE:HG23	1:I:272:ARG:HH11	1.76	0.40
1:F:209:LEU:HD12	1:F:257:VAL:HG22	2.03	0.40
1:F:254:ILE:HG13	1:F:255:LYS:H	1.86	0.40
1:F:273:GLY:O	1:F:274:PHE:CD2	2.75	0.40
1:F:299:THR:HG22	1:F:300:TYR:HD1	1.86	0.40
1:G:43:TYR:CD1	1:G:67:LEU:O	2.74	0.40
1:G:66:TYR:CZ	1:G:88:LEU:CD2	3.01	0.40
1:G:107:GLN:CB	1:G:151:ASP:OD1	2.69	0.40
1:G:225:LEU:HD12	1:H:300:TYR:CE2	2.29	0.40
1:G:259:GLU:HG3	1:G:263:LYS:HE3	2.03	0.40
1:G:291:LYS:HG2	1:G:292:LEU:HD12	2.03	0.40
1:H:36:VAL:HG23	1:H:38:PHE:CZ	2.57	0.40
1:H:45:LEU:HB2	1:H:67:LEU:CD1	2.42	0.40
1:H:68:ILE:HG21	1:H:92:THR:CB	2.52	0.40
1:H:299:THR:HG22	1:H:300:TYR:HD1	1.86	0.40
1:I:36:VAL:HG23	1:I:38:PHE:CZ	2.57	0.40
1:I:50:ILE:O	1:M:246:ILE:N	2.54	0.40
1:I:117:LEU:HD12	1:I:156:ALA:N	2.36	0.40
1:I:142:ASP:HB3	1:I:143:LYS:HB2	2.03	0.40
1:I:233:SER:C	1:I:234:ALA:O	2.60	0.40
1:I:262:LEU:O	1:I:266:ILE:HG12	2.22	0.40
1:J:50:ILE:HD12	1:N:246:ILE:C	2.42	0.40
1:J:233:SER:O	1:J:234:ALA:O	2.39	0.40
1:J:233:SER:C	1:J:234:ALA:O	2.60	0.40
1:J:301:PRO:O	1:K:228:ASN:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:36:VAL:HG21	1:K:38:PHE:CZ	2.54	0.40
1:K:138:VAL:CG2	1:K:145:TYR:CE2	3.03	0.40
1:K:278:GLN:N	1:L:219:ASP:N	2.53	0.40
1:K:291:LYS:HG2	1:K:292:LEU:HD12	2.03	0.40
1:L:45:LEU:HD23	1:L:58:LYS:NZ	2.36	0.40
1:L:61:LEU:HD23	1:L:61:LEU:C	2.42	0.40
1:L:68:ILE:HG21	1:L:92:THR:CB	2.52	0.40
1:L:273:GLY:O	1:L:274:PHE:CD2	2.75	0.40
1:M:36:VAL:HG23	1:M:38:PHE:CZ	2.57	0.40
1:M:44:ASN:CB	1:M:64:LYS:NZ	2.84	0.40
1:M:127:ARG:HE	1:M:154:ILE:HD12	1.86	0.40
1:M:288:THR:HG22	1:M:292:LEU:HD13	2.03	0.40
1:N:36:VAL:HG23	1:N:38:PHE:CZ	2.57	0.40
1:N:44:ASN:OD1	1:N:64:LYS:HD2	2.21	0.40
1:N:117:LEU:HD12	1:N:156:ALA:N	2.36	0.40
1:O:44:ASN:CB	1:O:64:LYS:NZ	2.84	0.40
1:O:116:VAL:HB	1:O:121:LYS:NZ	2.36	0.40
1:O:117:LEU:HD12	1:O:156:ALA:N	2.36	0.40
1:O:209:LEU:HD12	1:O:257:VAL:HG22	2.03	0.40
1:O:214:GLY:HA3	1:O:220:LEU:HG	2.03	0.40
1:O:320:LYS:HD3	1:P:49:TYR:CZ	2.51	0.40
1:P:8:TYR:CE1	1:P:25:ASN:ND2	2.86	0.40
1:P:59:ILE:HD13	1:P:92:THR:HG22	2.04	0.40
1:P:61:LEU:HD23	1:P:61:LEU:C	2.42	0.40
1:P:117:LEU:HD12	1:P:156:ALA:N	2.36	0.40
1:P:291:LYS:HG2	1:P:292:LEU:HD12	2.03	0.40
1:A:11:THR:HB	1:A:22:ILE:HG13	2.01	0.40
1:A:59:ILE:HD13	1:A:92:THR:HG22	2.04	0.40
1:A:213:VAL:CG1	1:A:235:LEU:HD13	2.51	0.40
1:A:221:ASN:O	1:A:223:GLY:N	2.54	0.40
1:A:240:MET:HA	1:F:166:GLN:HG3	1.70	0.40
1:B:209:LEU:HD12	1:B:257:VAL:HG22	2.03	0.40
1:B:213:VAL:CG1	1:B:235:LEU:HD13	2.51	0.40
1:B:220:LEU:O	1:B:221:ASN:C	2.58	0.40
1:B:221:ASN:O	1:B:223:GLY:N	2.54	0.40
1:B:259:GLU:HG3	1:B:263:LYS:HE3	2.03	0.40
1:B:310:SER:CA	1:B:313:THR:HG23	2.47	0.40
1:C:139:LYS:O	1:C:142:ASP:O	2.39	0.40
1:D:8:TYR:CE1	1:D:25:ASN:ND2	2.86	0.40
1:D:61:LEU:HD23	1:D:61:LEU:C	2.42	0.40
1:E:43:TYR:CD1	1:E:67:LEU:O	2.74	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:221:ASN:O	1:E:223:GLY:N	2.54	0.40
1:E:233:SER:O	1:E:234:ALA:O	2.39	0.40
1:E:254:ILE:HG13	1:E:255:LYS:H	1.85	0.40
1:E:284:PHE:CD1	1:E:284:PHE:N	2.90	0.40
1:F:27:LYS:HZ1	1:F:35:ARG:NE	2.20	0.40
1:F:48:GLY:HA2	1:G:325:LYS:HB2	1.50	0.40
1:F:59:ILE:HD13	1:F:92:THR:HG22	2.03	0.40
1:F:221:ASN:O	1:F:223:GLY:N	2.54	0.40
1:F:291:LYS:HG2	1:F:292:LEU:HD12	2.03	0.40
1:G:45:LEU:N	1:G:67:LEU:HD12	2.36	0.40
1:G:59:ILE:HD13	1:G:92:THR:HG22	2.03	0.40
1:G:68:ILE:HG21	1:G:92:THR:CB	2.52	0.40
1:G:87:LYS:HG2	1:G:129:TYR:CD2	2.56	0.40
1:G:284:PHE:CD1	1:G:284:PHE:N	2.90	0.40
1:G:288:THR:HG22	1:G:292:LEU:HD13	2.03	0.40
1:H:87:LYS:HG2	1:H:129:TYR:CD2	2.56	0.40
1:I:133:ASN:HD21	1:I:148:GLU:CB	2.33	0.40
1:I:233:SER:O	1:I:234:ALA:O	2.39	0.40
1:J:45:LEU:HD23	1:J:58:LYS:NZ	2.36	0.40
1:K:109:VAL:CG2	1:K:318:LEU:HB3	2.48	0.40
1:L:291:LYS:HG2	1:L:292:LEU:HD12	2.03	0.40
1:L:318:LEU:O	1:L:321:VAL:HG12	2.22	0.40
1:M:8:TYR:CE1	1:M:25:ASN:ND2	2.86	0.40
1:M:43:TYR:CD1	1:M:67:LEU:O	2.74	0.40
1:M:87:LYS:HG2	1:M:129:TYR:CD2	2.56	0.40
1:M:117:LEU:HD12	1:M:156:ALA:N	2.36	0.40
1:M:284:PHE:CD1	1:M:284:PHE:N	2.90	0.40
1:N:8:TYR:CE1	1:N:25:ASN:ND2	2.86	0.40
1:N:68:ILE:HG21	1:N:92:THR:CB	2.52	0.40
1:N:116:VAL:HB	1:N:121:LYS:NZ	2.36	0.40
1:N:161:VAL:HG21	1:N:176:VAL:CG1	2.51	0.40
1:N:233:SER:C	1:N:234:ALA:O	2.60	0.40
1:N:323:VAL:CG2	1:O:46:GLU:O	2.70	0.40
1:O:8:TYR:CE1	1:O:25:ASN:ND2	2.86	0.40
1:O:61:LEU:HD23	1:O:61:LEU:C	2.42	0.40
1:O:198:GLU:HA	1:O:272:ARG:HG2	2.03	0.40
1:P:186:PHE:HD2	1:P:269:ILE:CD1	2.32	0.40
1:P:233:SER:C	1:P:234:ALA:O	2.60	0.40
1:P:318:LEU:O	1:P:321:VAL:HG12	2.22	0.40
1:A:269:ILE:HG23	1:A:269:ILE:HD12	1.91	0.40
1:B:43:TYR:HB3	1:B:78:GLU:CA	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:68:ILE:HG21	1:B:92:THR:CB	2.52	0.40
1:B:196:PRO:CB	1:B:199:ARG:HH21	2.34	0.40
1:B:243:GLY:N	1:G:164:LEU:O	2.54	0.40
1:C:45:LEU:N	1:C:67:LEU:HD12	2.37	0.40
1:C:68:ILE:HG21	1:C:92:THR:CB	2.52	0.40
1:C:284:PHE:CE2	1:C:296:ILE:CG1	2.99	0.40
1:D:68:ILE:HG21	1:D:92:THR:CB	2.52	0.40
1:D:132:GLY:N	1:D:149:ILE:CD1	2.83	0.40
1:D:224:ASN:OD1	1:D:225:LEU:N	2.55	0.40
1:D:273:GLY:O	1:D:274:PHE:CD2	2.75	0.40
1:E:59:ILE:HD13	1:E:92:THR:HG22	2.04	0.40
1:E:127:ARG:HE	1:E:154:ILE:HD12	1.86	0.40
1:E:161:VAL:HG21	1:E:176:VAL:CG1	2.51	0.40
1:E:233:SER:C	1:E:234:ALA:O	2.60	0.40
1:E:262:LEU:O	1:E:266:ILE:HG12	2.22	0.40
1:F:11:THR:HB	1:F:22:ILE:HG13	2.01	0.40
1:F:36:VAL:HG23	1:F:38:PHE:CZ	2.57	0.40
1:F:107:GLN:CB	1:F:151:ASP:OD1	2.69	0.40
1:F:233:SER:C	1:F:234:ALA:O	2.60	0.40
1:F:284:PHE:CE2	1:F:296:ILE:CG1	2.99	0.40
1:G:11:THR:HB	1:G:22:ILE:HG13	2.02	0.40
1:G:68:ILE:HG21	1:G:92:THR:HG21	2.04	0.40
1:G:117:LEU:HD12	1:G:156:ALA:N	2.36	0.40
1:G:318:LEU:O	1:G:321:VAL:HG12	2.22	0.40
1:H:186:PHE:HD2	1:H:269:ILE:CD1	2.32	0.40
1:I:43:TYR:HE2	1:I:67:LEU:HD13	1.78	0.40
1:I:112:CYS:HG	1:I:122:ALA:HB1	1.86	0.40
1:I:291:LYS:HG2	1:I:292:LEU:HD12	2.03	0.40
1:J:43:TYR:HE2	1:J:67:LEU:HD13	1.77	0.40
1:J:52:ILE:HB	1:J:74:GLU:HA	2.03	0.40
1:J:61:LEU:HD23	1:J:61:LEU:C	2.42	0.40
1:J:87:LYS:HG2	1:J:129:TYR:CD2	2.56	0.40
1:J:95:THR:HG21	1:J:136:ILE:HG21	1.97	0.40
1:J:142:ASP:HB3	1:J:143:LYS:HB2	2.03	0.40
1:J:291:LYS:HG2	1:J:292:LEU:HD12	2.03	0.40
1:K:87:LYS:HG2	1:K:129:TYR:CD2	2.56	0.40
1:K:259:GLU:HG3	1:K:263:LYS:HE3	2.03	0.40
1:K:318:LEU:O	1:K:321:VAL:HG12	2.22	0.40
1:L:87:LYS:HG2	1:L:129:TYR:CD2	2.56	0.40
1:L:107:GLN:CB	1:L:151:ASP:OD1	2.69	0.40
1:L:117:LEU:O	1:L:117:LEU:CD2	2.67	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:45:LEU:N	1:M:67:LEU:HD12	2.36	0.40
1:M:161:VAL:HG21	1:M:176:VAL:CG1	2.51	0.40
1:N:132:GLY:N	1:N:149:ILE:CD1	2.83	0.40
1:O:99:ASP:HB3	1:O:145:TYR:OH	2.21	0.40
1:O:127:ARG:HE	1:O:154:ILE:HD12	1.86	0.40
1:O:291:LYS:HG2	1:O:292:LEU:HD12	2.03	0.40
1:O:299:THR:HG22	1:O:300:TYR:HD1	1.86	0.40
1:O:323:VAL:CG2	1:P:46:GLU:O	2.70	0.40
1:P:107:GLN:CB	1:P:151:ASP:OD1	2.69	0.40
1:P:116:VAL:HB	1:P:121:LYS:NZ	2.36	0.40
1:P:214:GLY:HA3	1:P:220:LEU:HG	2.03	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles [i](#)

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

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	322/329 (98%)	283 (88%)	26 (8%)	13 (4%)	3	23
1	B	322/329 (98%)	283 (88%)	26 (8%)	13 (4%)	3	23
1	C	322/329 (98%)	283 (88%)	26 (8%)	13 (4%)	3	23
1	D	322/329 (98%)	283 (88%)	26 (8%)	13 (4%)	3	23
1	E	322/329 (98%)	283 (88%)	26 (8%)	13 (4%)	3	23
1	F	322/329 (98%)	284 (88%)	25 (8%)	13 (4%)	3	23
1	G	322/329 (98%)	283 (88%)	26 (8%)	13 (4%)	3	23
1	H	322/329 (98%)	284 (88%)	25 (8%)	13 (4%)	3	23
1	I	322/329 (98%)	283 (88%)	26 (8%)	13 (4%)	3	23
1	J	322/329 (98%)	283 (88%)	26 (8%)	13 (4%)	3	23
1	K	322/329 (98%)	283 (88%)	26 (8%)	13 (4%)	3	23

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	L	322/329 (98%)	283 (88%)	26 (8%)	13 (4%)	3	23
1	M	322/329 (98%)	283 (88%)	26 (8%)	13 (4%)	3	23
1	N	322/329 (98%)	283 (88%)	26 (8%)	13 (4%)	3	23
1	O	322/329 (98%)	283 (88%)	26 (8%)	13 (4%)	3	23
1	P	322/329 (98%)	283 (88%)	26 (8%)	13 (4%)	3	23
All	All	5152/5264 (98%)	4530 (88%)	414 (8%)	208 (4%)	5	23

All (208) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	16	LYS
1	A	34	LYS
1	A	118	ARG
1	A	221	ASN
1	A	234	ALA
1	A	274	PHE
1	B	16	LYS
1	B	34	LYS
1	B	118	ARG
1	B	221	ASN
1	B	234	ALA
1	B	274	PHE
1	C	16	LYS
1	C	34	LYS
1	C	118	ARG
1	C	221	ASN
1	C	234	ALA
1	C	274	PHE
1	D	16	LYS
1	D	34	LYS
1	D	118	ARG
1	D	221	ASN
1	D	234	ALA
1	D	274	PHE
1	E	16	LYS
1	E	34	LYS
1	E	118	ARG
1	E	221	ASN
1	E	234	ALA
1	E	274	PHE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	F	16	LYS
1	F	34	LYS
1	F	118	ARG
1	F	221	ASN
1	F	234	ALA
1	F	274	PHE
1	G	16	LYS
1	G	34	LYS
1	G	118	ARG
1	G	221	ASN
1	G	234	ALA
1	G	274	PHE
1	H	16	LYS
1	H	34	LYS
1	H	118	ARG
1	H	221	ASN
1	H	234	ALA
1	H	274	PHE
1	I	16	LYS
1	I	34	LYS
1	I	118	ARG
1	I	221	ASN
1	I	234	ALA
1	I	274	PHE
1	J	16	LYS
1	J	34	LYS
1	J	118	ARG
1	J	221	ASN
1	J	234	ALA
1	J	274	PHE
1	K	16	LYS
1	K	34	LYS
1	K	118	ARG
1	K	221	ASN
1	K	234	ALA
1	K	274	PHE
1	L	16	LYS
1	L	34	LYS
1	L	118	ARG
1	L	221	ASN
1	L	234	ALA
1	L	274	PHE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	M	16	LYS
1	M	34	LYS
1	M	118	ARG
1	M	221	ASN
1	M	234	ALA
1	M	274	PHE
1	N	16	LYS
1	N	34	LYS
1	N	118	ARG
1	N	221	ASN
1	N	234	ALA
1	N	274	PHE
1	O	16	LYS
1	O	34	LYS
1	O	118	ARG
1	O	221	ASN
1	O	234	ALA
1	O	274	PHE
1	P	16	LYS
1	P	34	LYS
1	P	118	ARG
1	P	221	ASN
1	P	234	ALA
1	P	274	PHE
1	A	32	ASP
1	A	64	LYS
1	A	84	LEU
1	A	169	PHE
1	A	231	ALA
1	A	251	SER
1	B	32	ASP
1	B	64	LYS
1	B	84	LEU
1	B	169	PHE
1	B	231	ALA
1	B	251	SER
1	C	32	ASP
1	C	64	LYS
1	C	84	LEU
1	C	169	PHE
1	C	231	ALA
1	C	251	SER

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	D	32	ASP
1	D	64	LYS
1	D	84	LEU
1	D	169	PHE
1	D	231	ALA
1	D	251	SER
1	E	32	ASP
1	E	64	LYS
1	E	84	LEU
1	E	169	PHE
1	E	231	ALA
1	E	251	SER
1	F	32	ASP
1	F	64	LYS
1	F	84	LEU
1	F	169	PHE
1	F	231	ALA
1	F	251	SER
1	G	32	ASP
1	G	64	LYS
1	G	84	LEU
1	G	169	PHE
1	G	231	ALA
1	G	251	SER
1	H	32	ASP
1	H	64	LYS
1	H	84	LEU
1	H	169	PHE
1	H	231	ALA
1	H	251	SER
1	I	32	ASP
1	I	64	LYS
1	I	84	LEU
1	I	169	PHE
1	I	231	ALA
1	I	251	SER
1	J	32	ASP
1	J	64	LYS
1	J	84	LEU
1	J	169	PHE
1	J	231	ALA
1	J	251	SER

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	K	32	ASP
1	K	64	LYS
1	K	84	LEU
1	K	169	PHE
1	K	231	ALA
1	K	251	SER
1	L	32	ASP
1	L	64	LYS
1	L	84	LEU
1	L	169	PHE
1	L	231	ALA
1	L	251	SER
1	M	32	ASP
1	M	64	LYS
1	M	84	LEU
1	M	169	PHE
1	M	231	ALA
1	M	251	SER
1	N	32	ASP
1	N	64	LYS
1	N	84	LEU
1	N	169	PHE
1	N	231	ALA
1	N	251	SER
1	O	32	ASP
1	O	64	LYS
1	O	84	LEU
1	O	169	PHE
1	O	231	ALA
1	O	251	SER
1	P	32	ASP
1	P	64	LYS
1	P	84	LEU
1	P	169	PHE
1	P	231	ALA
1	P	251	SER
1	A	142	ASP
1	B	142	ASP
1	C	142	ASP
1	D	142	ASP
1	E	142	ASP
1	F	142	ASP

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Mol	Chain	Res	Type
1	G	142	ASP
1	H	142	ASP
1	I	142	ASP
1	J	142	ASP
1	K	142	ASP
1	L	142	ASP
1	M	142	ASP
1	N	142	ASP
1	O	142	ASP
1	P	142	ASP

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

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	283/289 (98%)	278 (98%)	5 (2%)	59 77
1	B	283/289 (98%)	278 (98%)	5 (2%)	59 77
1	C	283/289 (98%)	278 (98%)	5 (2%)	59 77
1	D	283/289 (98%)	278 (98%)	5 (2%)	59 77
1	E	283/289 (98%)	278 (98%)	5 (2%)	59 77
1	F	283/289 (98%)	278 (98%)	5 (2%)	59 77
1	G	283/289 (98%)	278 (98%)	5 (2%)	59 77
1	H	283/289 (98%)	278 (98%)	5 (2%)	59 77
1	I	283/289 (98%)	278 (98%)	5 (2%)	59 77
1	J	283/289 (98%)	278 (98%)	5 (2%)	59 77
1	K	283/289 (98%)	278 (98%)	5 (2%)	59 77
1	L	283/289 (98%)	278 (98%)	5 (2%)	59 77
1	M	283/289 (98%)	278 (98%)	5 (2%)	59 77
1	N	283/289 (98%)	278 (98%)	5 (2%)	59 77
1	O	283/289 (98%)	278 (98%)	5 (2%)	59 77
1	P	283/289 (98%)	278 (98%)	5 (2%)	59 77

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
All	All	4528/4624 (98%)	4448 (98%)	80 (2%)	61 77

All (80) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	7	GLU
1	A	34	LYS
1	A	61	LEU
1	A	222	ASN
1	A	256	LYS
1	B	7	GLU
1	B	34	LYS
1	B	61	LEU
1	B	222	ASN
1	B	256	LYS
1	C	7	GLU
1	C	34	LYS
1	C	61	LEU
1	C	222	ASN
1	C	256	LYS
1	D	7	GLU
1	D	34	LYS
1	D	61	LEU
1	D	222	ASN
1	D	256	LYS
1	E	7	GLU
1	E	34	LYS
1	E	61	LEU
1	E	222	ASN
1	E	256	LYS
1	F	7	GLU
1	F	34	LYS
1	F	61	LEU
1	F	222	ASN
1	F	256	LYS
1	G	7	GLU
1	G	34	LYS
1	G	61	LEU
1	G	222	ASN
1	G	256	LYS
1	H	7	GLU
1	H	34	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	H	61	LEU
1	H	222	ASN
1	H	256	LYS
1	I	7	GLU
1	I	34	LYS
1	I	61	LEU
1	I	222	ASN
1	I	256	LYS
1	J	7	GLU
1	J	34	LYS
1	J	61	LEU
1	J	222	ASN
1	J	256	LYS
1	K	7	GLU
1	K	34	LYS
1	K	61	LEU
1	K	222	ASN
1	K	256	LYS
1	L	7	GLU
1	L	34	LYS
1	L	61	LEU
1	L	222	ASN
1	L	256	LYS
1	M	7	GLU
1	M	34	LYS
1	M	61	LEU
1	M	222	ASN
1	M	256	LYS
1	N	7	GLU
1	N	34	LYS
1	N	61	LEU
1	N	222	ASN
1	N	256	LYS
1	O	7	GLU
1	O	34	LYS
1	O	61	LEU
1	O	222	ASN
1	O	256	LYS
1	P	7	GLU
1	P	34	LYS
1	P	61	LEU
1	P	222	ASN

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Mol	Chain	Res	Type
1	P	256	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (167) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	6	ASN
1	A	57	HIS
1	A	96	GLN
1	A	107	GLN
1	A	119	ASN
1	A	133	ASN
1	A	183	ASN
1	A	204	HIS
1	A	228	ASN
1	A	237	ASN
1	B	6	ASN
1	B	57	HIS
1	B	96	GLN
1	B	107	GLN
1	B	119	ASN
1	B	133	ASN
1	B	183	ASN
1	B	204	HIS
1	B	228	ASN
1	B	237	ASN
1	B	308	ASN
1	C	6	ASN
1	C	57	HIS
1	C	96	GLN
1	C	107	GLN
1	C	119	ASN
1	C	133	ASN
1	C	183	ASN
1	C	204	HIS
1	C	228	ASN
1	C	237	ASN
1	D	6	ASN
1	D	57	HIS
1	D	96	GLN
1	D	107	GLN
1	D	119	ASN
1	D	133	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	D	183	ASN
1	D	204	HIS
1	D	228	ASN
1	D	237	ASN
1	E	6	ASN
1	E	57	HIS
1	E	71	GLN
1	E	96	GLN
1	E	107	GLN
1	E	119	ASN
1	E	133	ASN
1	E	183	ASN
1	E	204	HIS
1	E	224	ASN
1	E	228	ASN
1	E	237	ASN
1	F	6	ASN
1	F	57	HIS
1	F	71	GLN
1	F	96	GLN
1	F	107	GLN
1	F	133	ASN
1	F	168	ASN
1	F	224	ASN
1	F	228	ASN
1	F	237	ASN
1	F	308	ASN
1	G	6	ASN
1	G	57	HIS
1	G	71	GLN
1	G	96	GLN
1	G	107	GLN
1	G	133	ASN
1	G	168	ASN
1	G	224	ASN
1	G	228	ASN
1	G	237	ASN
1	G	308	ASN
1	H	6	ASN
1	H	57	HIS
1	H	96	GLN
1	H	107	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	H	133	ASN
1	H	168	ASN
1	H	228	ASN
1	H	237	ASN
1	I	6	ASN
1	I	57	HIS
1	I	96	GLN
1	I	107	GLN
1	I	133	ASN
1	I	168	ASN
1	I	228	ASN
1	I	237	ASN
1	J	6	ASN
1	J	57	HIS
1	J	71	GLN
1	J	96	GLN
1	J	107	GLN
1	J	133	ASN
1	J	168	ASN
1	J	224	ASN
1	J	228	ASN
1	J	237	ASN
1	J	308	ASN
1	K	6	ASN
1	K	57	HIS
1	K	71	GLN
1	K	96	GLN
1	K	107	GLN
1	K	133	ASN
1	K	168	ASN
1	K	224	ASN
1	K	228	ASN
1	K	237	ASN
1	K	308	ASN
1	L	6	ASN
1	L	57	HIS
1	L	71	GLN
1	L	96	GLN
1	L	107	GLN
1	L	119	ASN
1	L	133	ASN
1	L	183	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	L	204	HIS
1	L	224	ASN
1	L	228	ASN
1	L	237	ASN
1	M	6	ASN
1	M	44	ASN
1	M	57	HIS
1	M	96	GLN
1	M	107	GLN
1	M	119	ASN
1	M	133	ASN
1	M	183	ASN
1	M	204	HIS
1	M	228	ASN
1	M	237	ASN
1	N	6	ASN
1	N	57	HIS
1	N	96	GLN
1	N	107	GLN
1	N	119	ASN
1	N	133	ASN
1	N	183	ASN
1	N	204	HIS
1	N	228	ASN
1	N	237	ASN
1	N	278	GLN
1	O	6	ASN
1	O	57	HIS
1	O	96	GLN
1	O	107	GLN
1	O	119	ASN
1	O	133	ASN
1	O	183	ASN
1	O	204	HIS
1	O	228	ASN
1	O	237	ASN
1	P	6	ASN
1	P	57	HIS
1	P	96	GLN
1	P	107	GLN
1	P	119	ASN
1	P	133	ASN

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Mol	Chain	Res	Type
1	P	183	ASN
1	P	204	HIS
1	P	228	ASN
1	P	237	ASN

### 5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

### 5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

### 5.6 Ligand geometry [i](#)

There are no ligands in this entry.

### 5.7 Other polymers [i](#)

There are no such residues in this entry.

### 5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

## 6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-2068. 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](#)

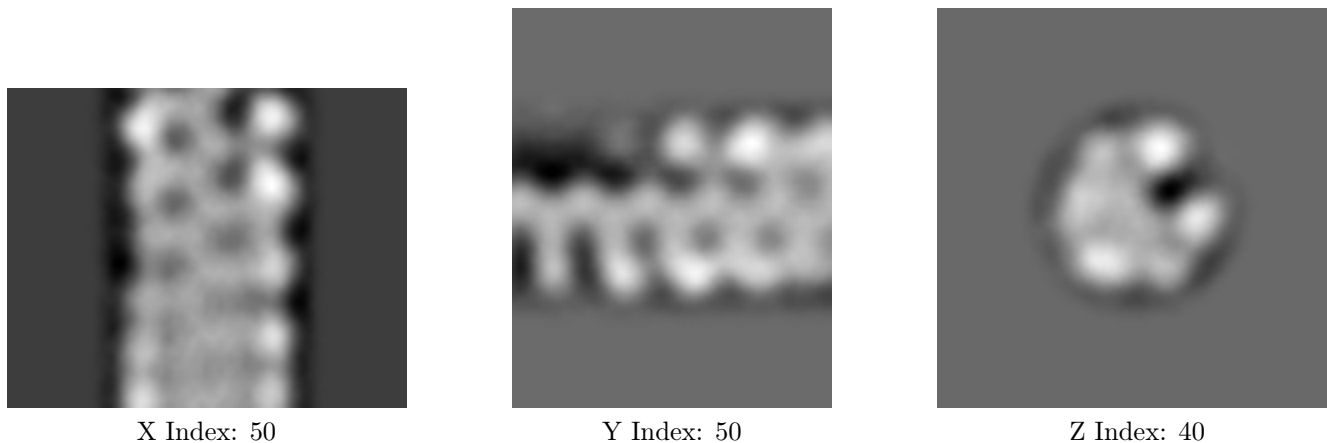
#### 6.1.1 Primary map



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

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

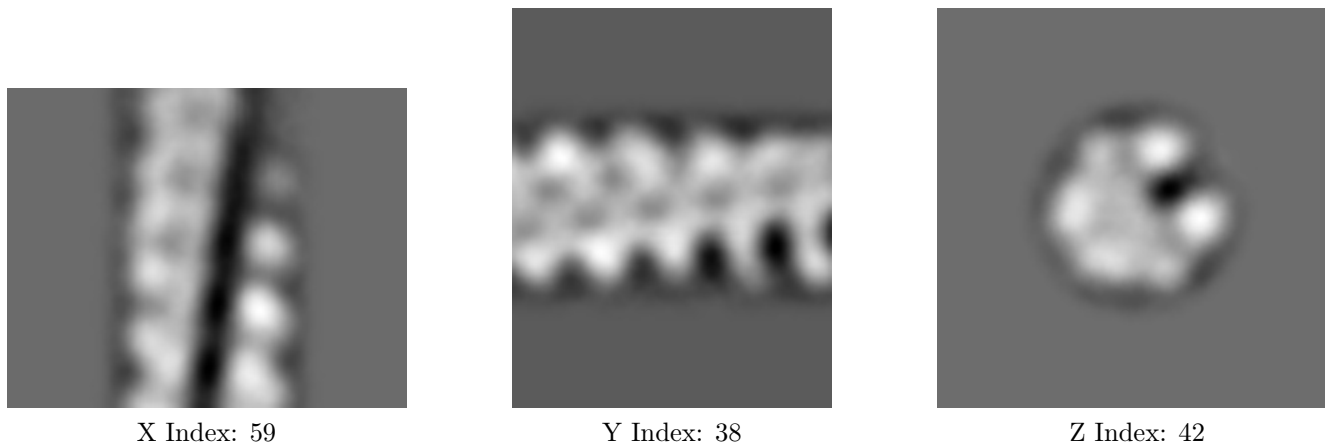
#### 6.2.1 Primary map



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

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

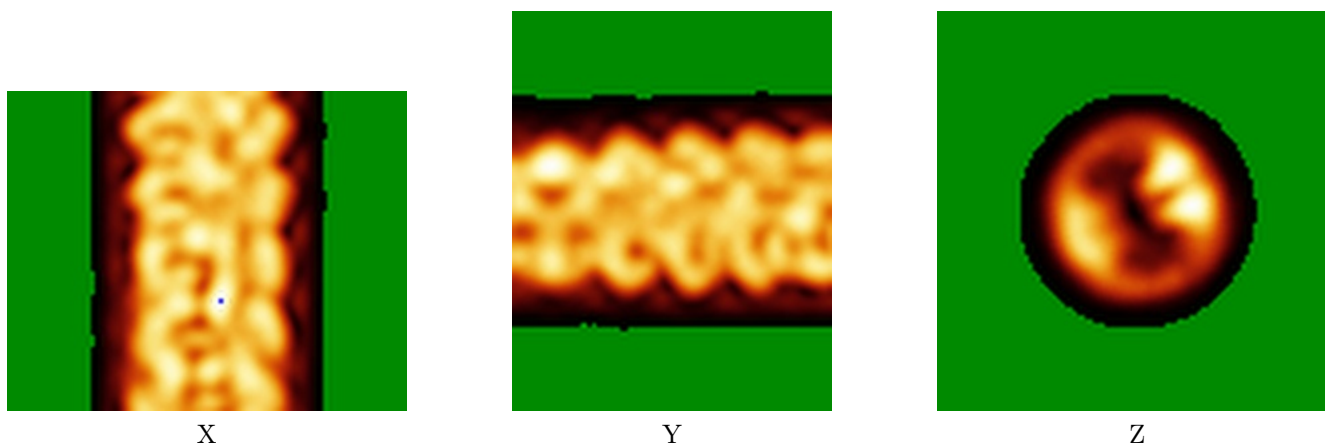
### 6.3.1 Primary map



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



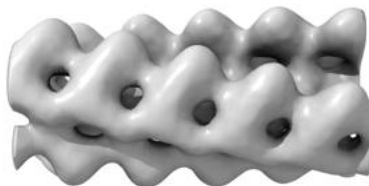
The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

## 6.5 Orthogonal surface views [i](#)

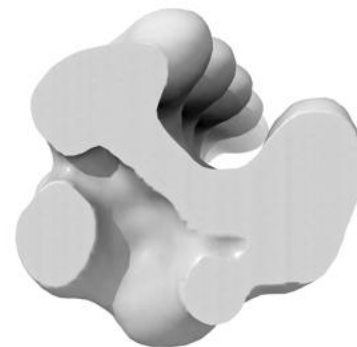
### 6.5.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.88. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

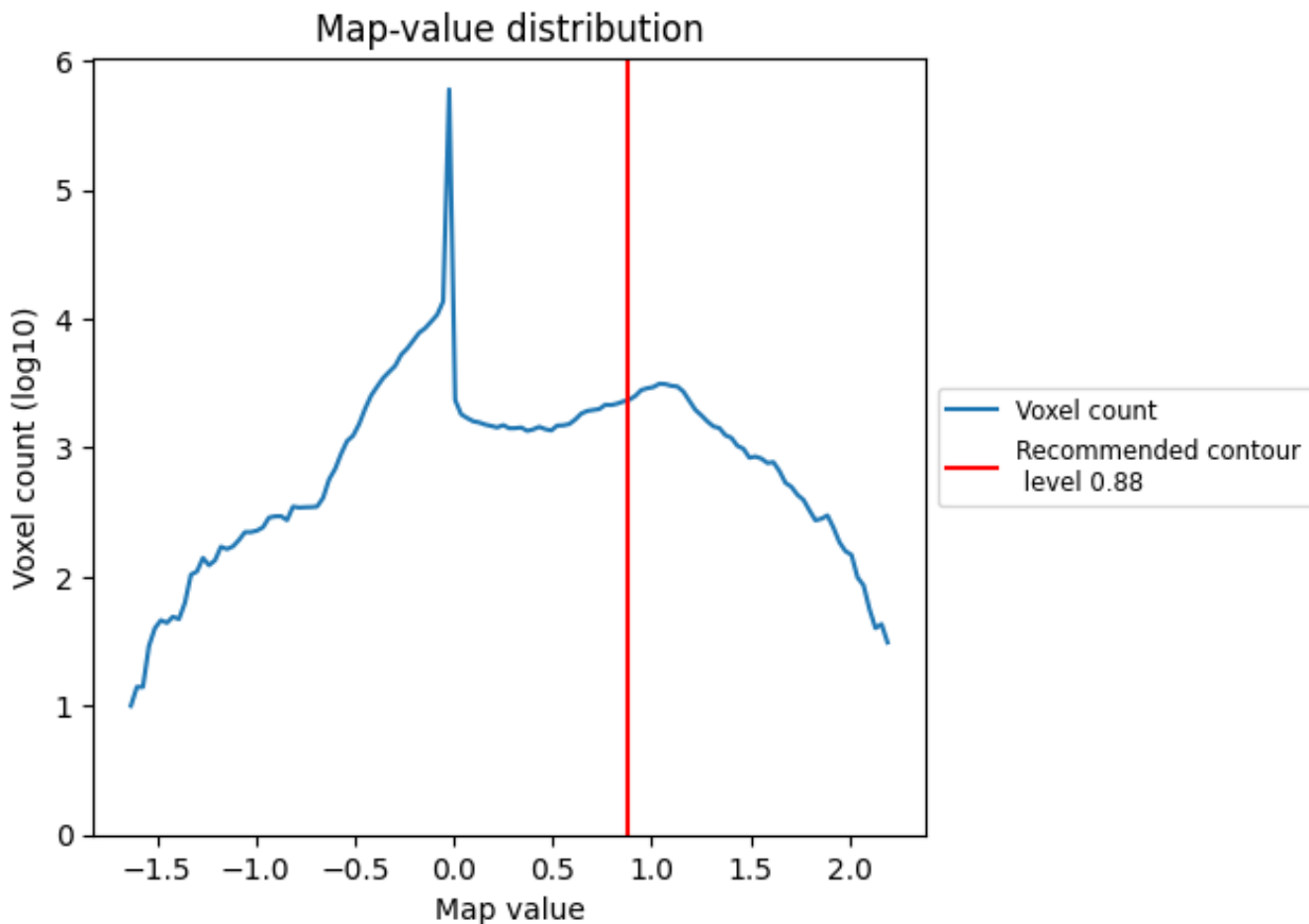
## 6.6 Mask visualisation [i](#)

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

## 7 Map analysis [i](#)

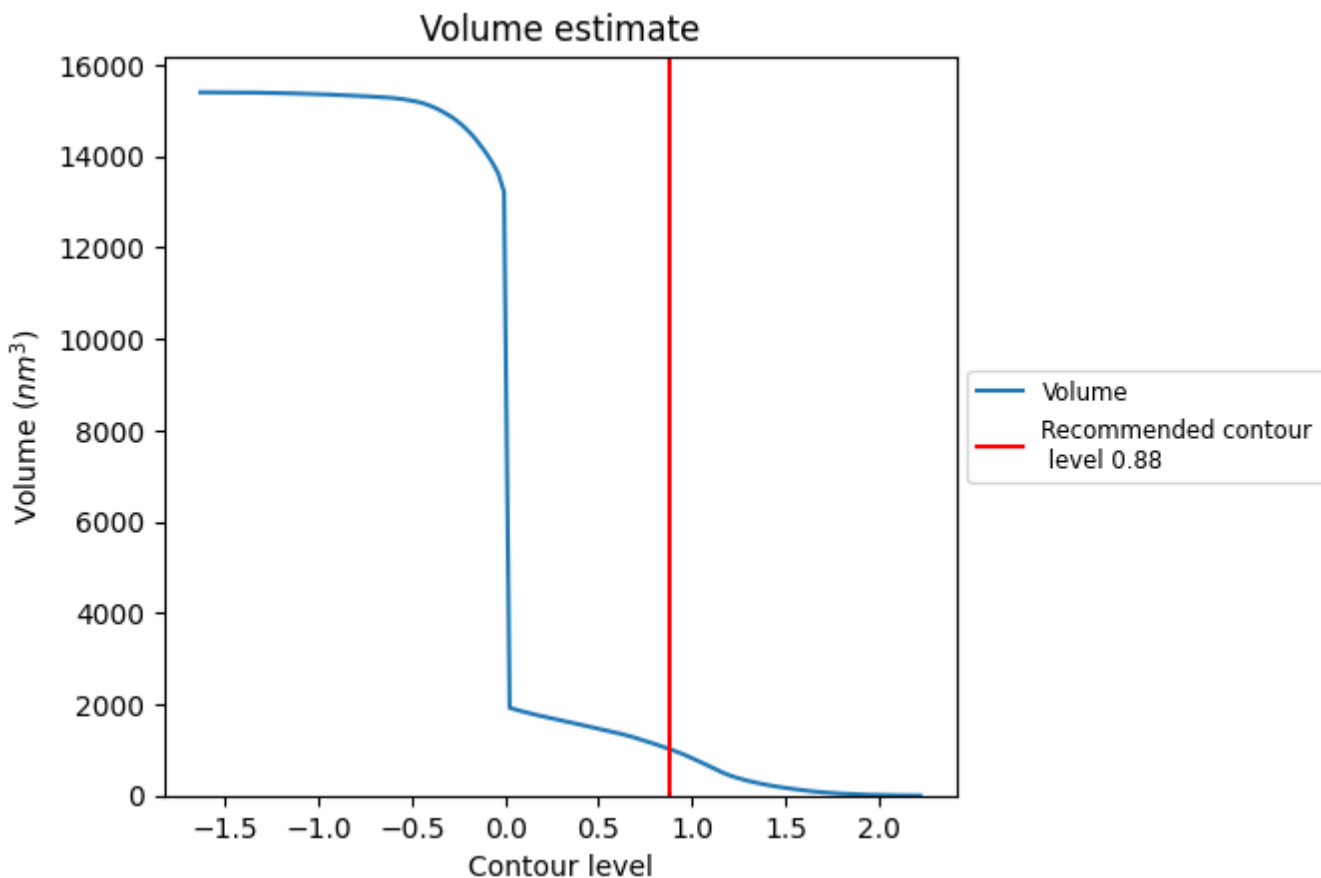
This section contains the results of statistical analysis of the map.

### 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 1019 nm<sup>3</sup>; this corresponds to an approximate mass of 920 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 [i](#)

This section was not generated. The rotationally averaged power spectrum is only generated for cubic maps.

## 8 Fourier-Shell correlation

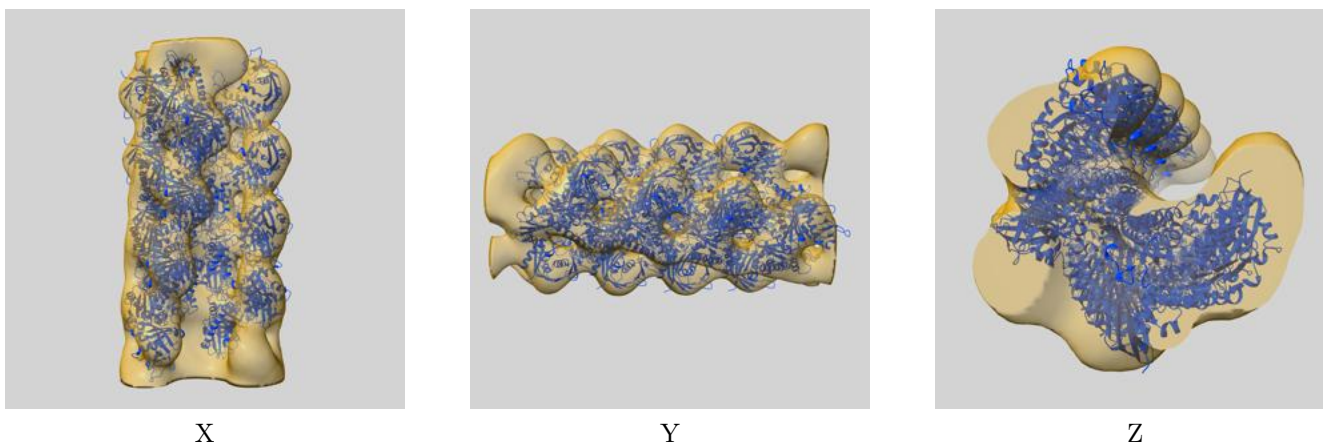
This section was not generated. No FSC curve or half-maps provided.



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

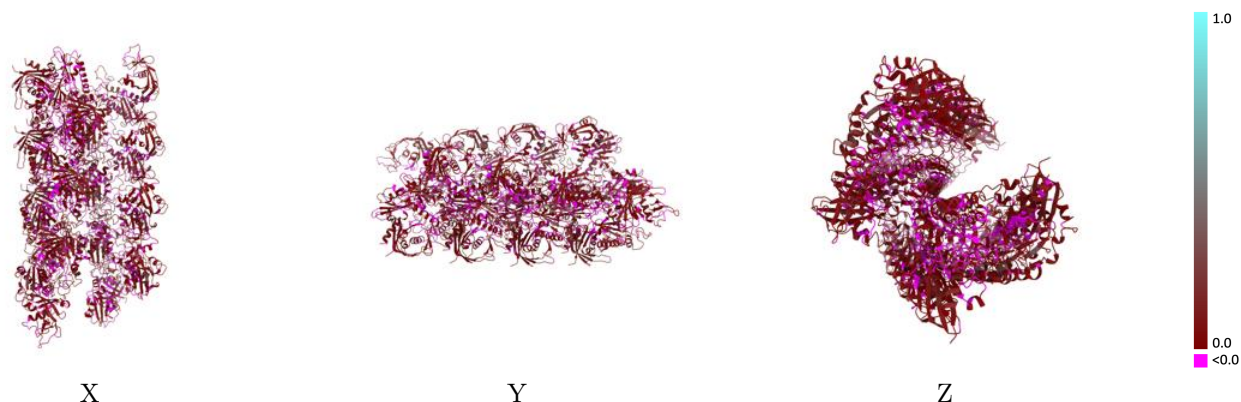
This section contains information regarding the fit between EMDB map EMD-2068 and PDB model 4APW. Per-residue inclusion information can be found in section [3](#) on page [5](#).

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



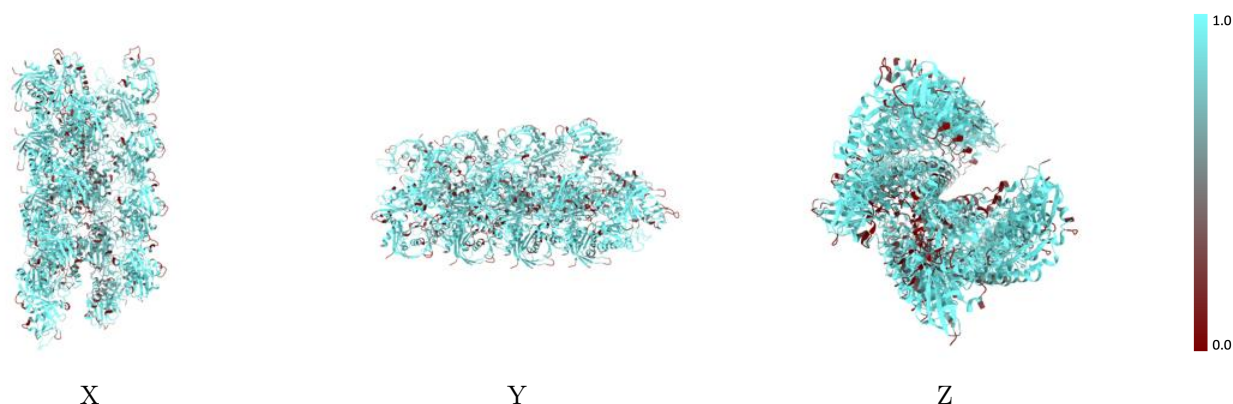
The images above show the 3D surface view of the map at the recommended contour level 0.88 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



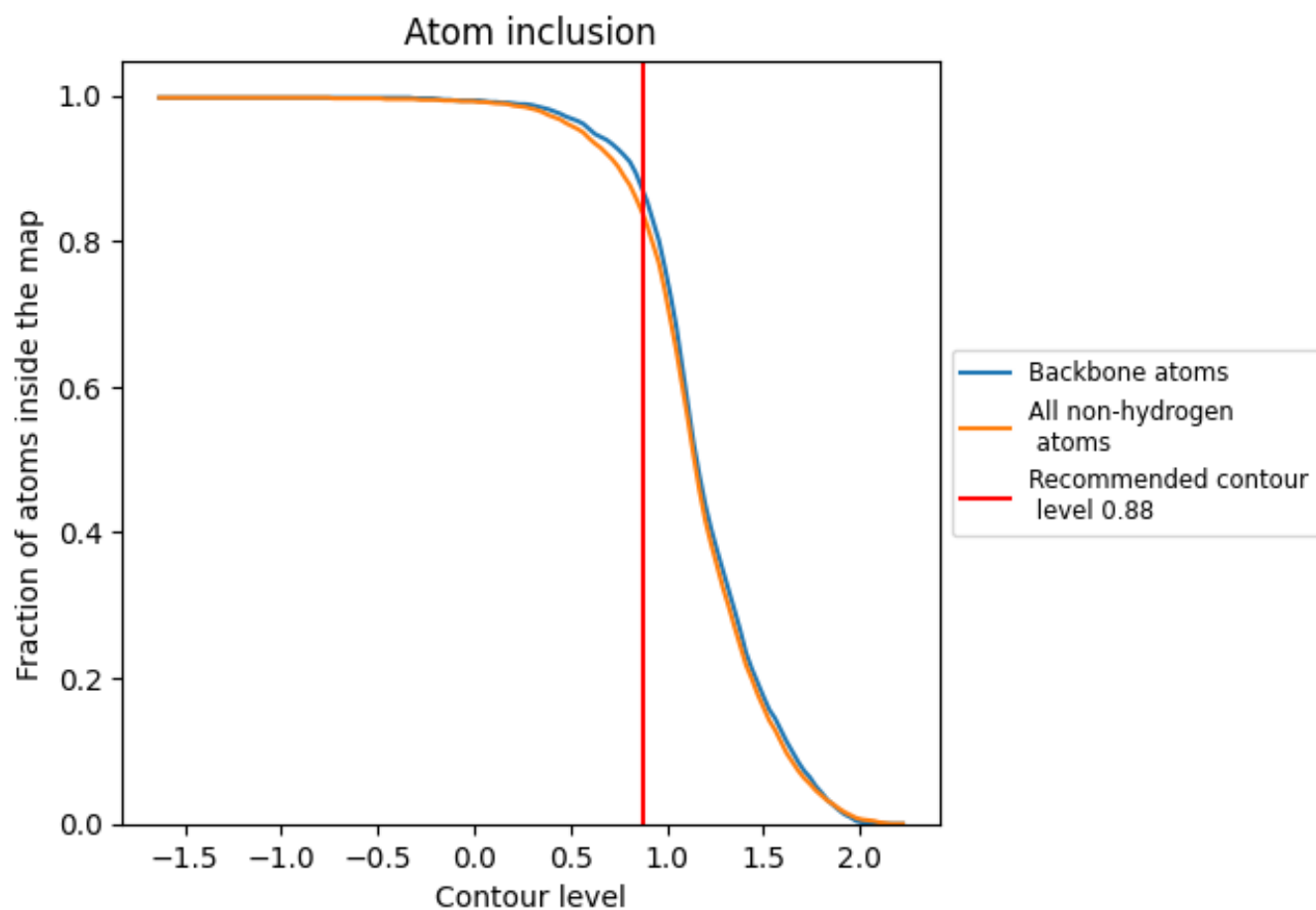
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.88).



































## 9.4 Atom inclusion [i](#)



At the recommended contour level, 87% of all backbone atoms, 83% 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 (0.88) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.8340	 0.0580
A	 0.8770	 0.0560
B	 0.8780	 0.0570
C	 0.8770	 0.0560
D	 0.8480	 0.0550
E	 0.7930	 0.0580
F	 0.7960	 0.0590
G	 0.7950	 0.0580
H	 0.7950	 0.0600
I	 0.7910	 0.0590
J	 0.7940	 0.0560
K	 0.7930	 0.0580
L	 0.7890	 0.0540
M	 0.8770	 0.0580
N	 0.8770	 0.0600
O	 0.8780	 0.0590
P	 0.8780	 0.0580

