



# Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 10:22 AM GMT

PDB ID : 3LJ5  
Title : Full Length Bacteriophage P22 Portal Protein  
Authors : Olia, A.S.; Cingolani, G.  
Deposited on : 2010-01-25  
Resolution : 7.50 Å(reported)

This is a Full wwPDB X-ray Structure 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  
<http://wwpdb.org/validation/2016/XrayValidationReportHelp>  
with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467  
Mogul : 1.7 (RC4), CSD as536be (2015)  
Xtriage (Phenix) : 1.9-1692  
EDS : rb-20026688  
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)  
Refmac : 5.8.0135  
CCP4 : 6.5.0  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : trunk26865

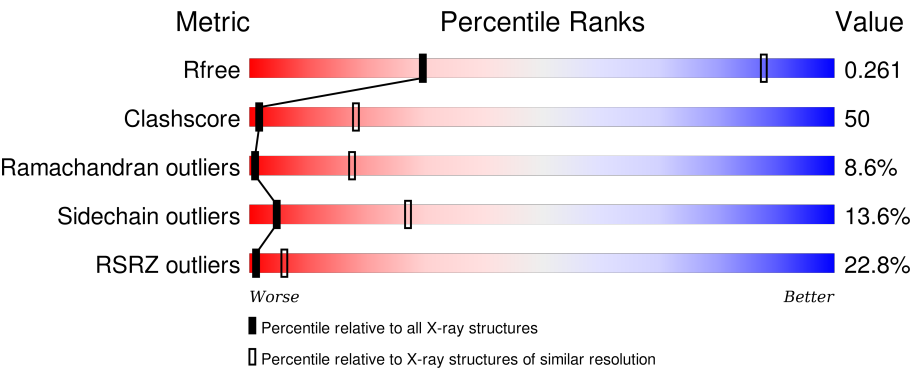
# 1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 7.50 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)	Similar resolution (#Entries, resolution range(Å))
R <sub>free</sub>	91344	1014 (9.50-3.66)
Clashscore	102246	1063 (10.00-3.70)
Ramachandran outliers	100387	1035 (9.50-3.66)
Sidechain outliers	100360	1005 (9.50-3.66)
RSRZ outliers	91569	1013 (9.50-3.66)

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

Mol	Chain	Length	Quality of chain
1	A	725	<div><div>20%</div><div><div></div><div>38%</div><div>45%</div><div>12%</div><div>• 5%</div></div></div>
1	B	725	<div><div>23%</div><div><div></div><div>39%</div><div>45%</div><div>12%</div><div>• 5%</div></div></div>
1	C	725	<div><div>24%</div><div><div></div><div>39%</div><div>44%</div><div>12%</div><div>• 5%</div></div></div>
1	D	725	<div><div>23%</div><div><div></div><div>38%</div><div>45%</div><div>12%</div><div>• 5%</div></div></div>
1	E	725	<div><div>29%</div><div><div></div><div>37%</div><div>45%</div><div>12%</div><div>• 5%</div></div></div>

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Mol	Chain	Length	Quality of chain
1	F	725	<div><div></div><div>25%39%44%12%5%</div></div>
1	G	725	<div><div></div><div>22%37%47%12%5%</div></div>
1	H	725	<div><div></div><div>16%38%45%12%5%</div></div>
1	I	725	<div><div></div><div>15%39%44%12%5%</div></div>
1	J	725	<div><div></div><div>21%39%44%12%5%</div></div>
1	K	725	<div><div></div><div>21%39%43%12%5%</div></div>
1	L	725	<div><div></div><div>22%40%43%12%5%</div></div>

## 2 Entry composition [i](#)

There is only 1 type of molecule in this entry. The entry contains 61512 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, 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.

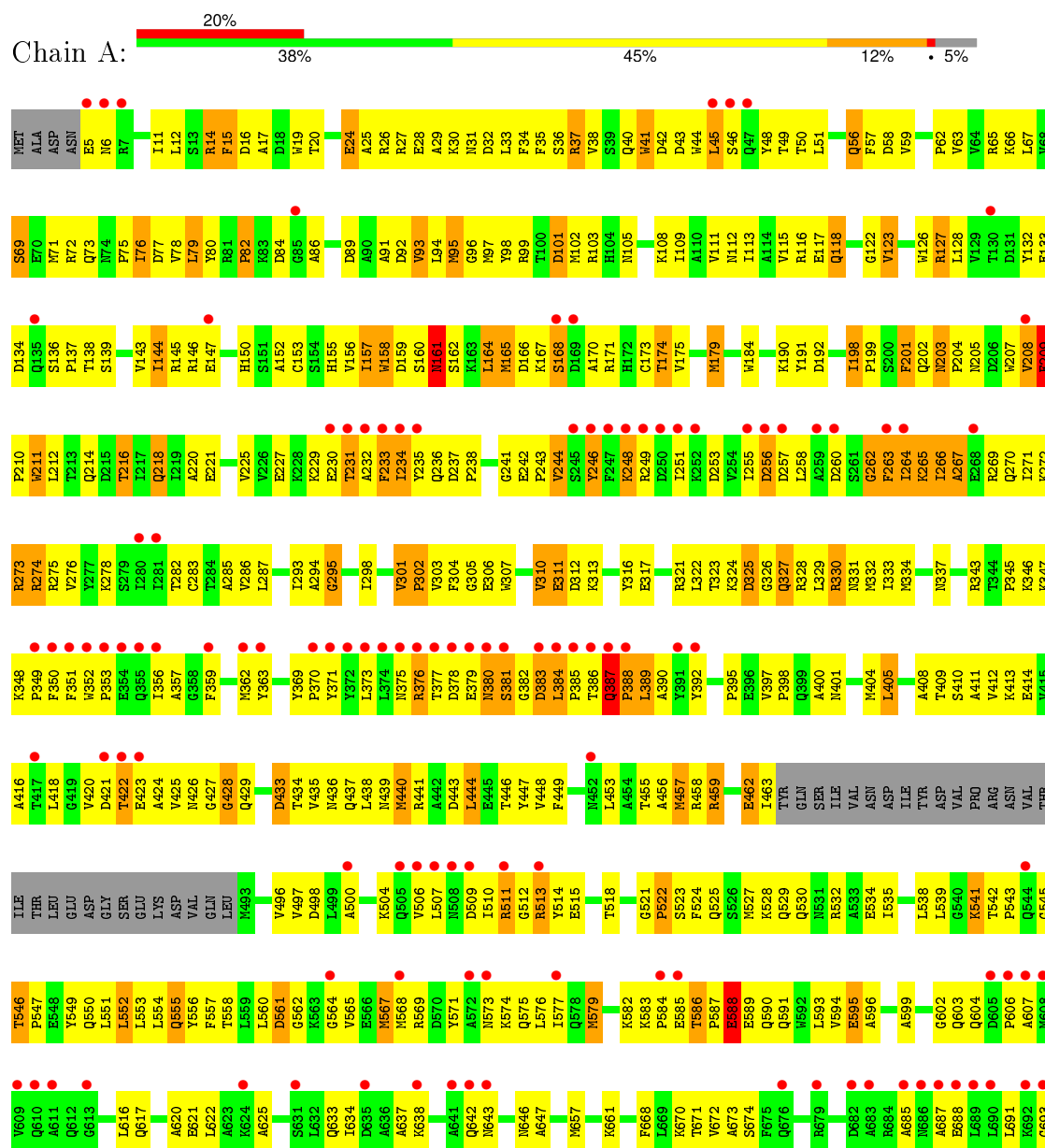
- Molecule 1 is a protein called Portal protein.

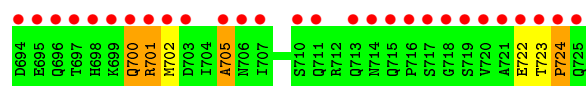
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	692	Total	C	N	O	S	0	0	0
			5126	3204	900	1002	20			
1	B	692	Total	C	N	O	S	0	0	0
			5126	3204	900	1002	20			
1	C	692	Total	C	N	O	S	0	0	0
			5126	3204	900	1002	20			
1	D	692	Total	C	N	O	S	0	0	0
			5126	3204	900	1002	20			
1	E	692	Total	C	N	O	S	0	0	0
			5126	3204	900	1002	20			
1	F	692	Total	C	N	O	S	0	0	0
			5126	3204	900	1002	20			
1	G	692	Total	C	N	O	S	0	0	0
			5126	3204	900	1002	20			
1	H	692	Total	C	N	O	S	0	0	0
			5126	3204	900	1002	20			
1	I	692	Total	C	N	O	S	0	0	0
			5126	3204	900	1002	20			
1	J	692	Total	C	N	O	S	0	0	0
			5126	3204	900	1002	20			
1	K	692	Total	C	N	O	S	0	0	0
			5126	3204	900	1002	20			
1	L	692	Total	C	N	O	S	0	0	0
			5126	3204	900	1002	20			

### 3 Residue-property plots

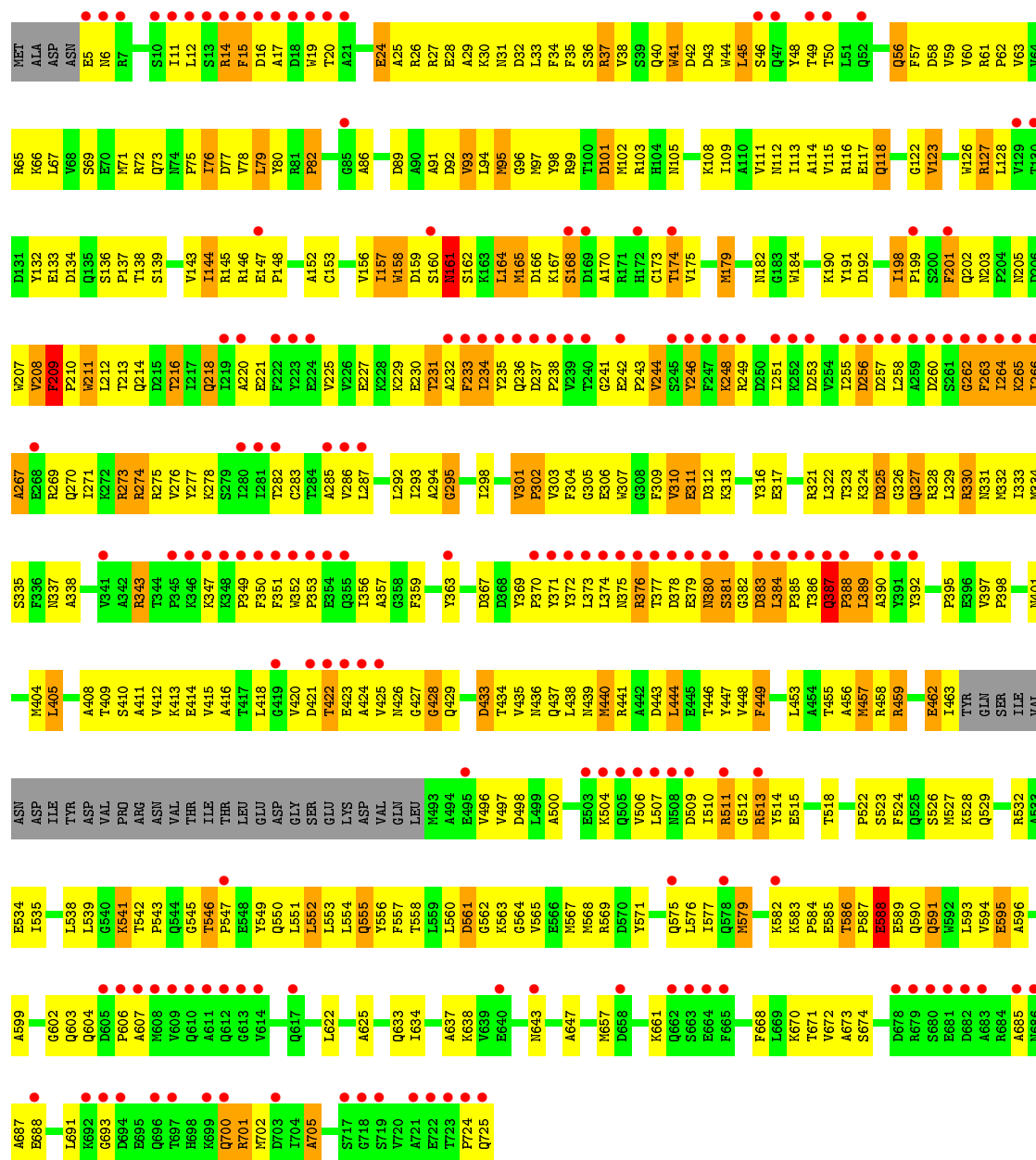
These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according 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 dot above a residue indicates a poor fit to the electron density ( $RSRZ > 2$ ). 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: Portal protein

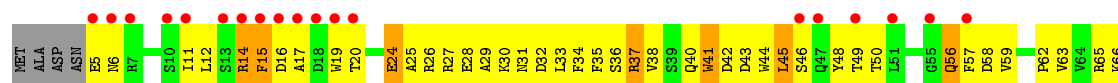




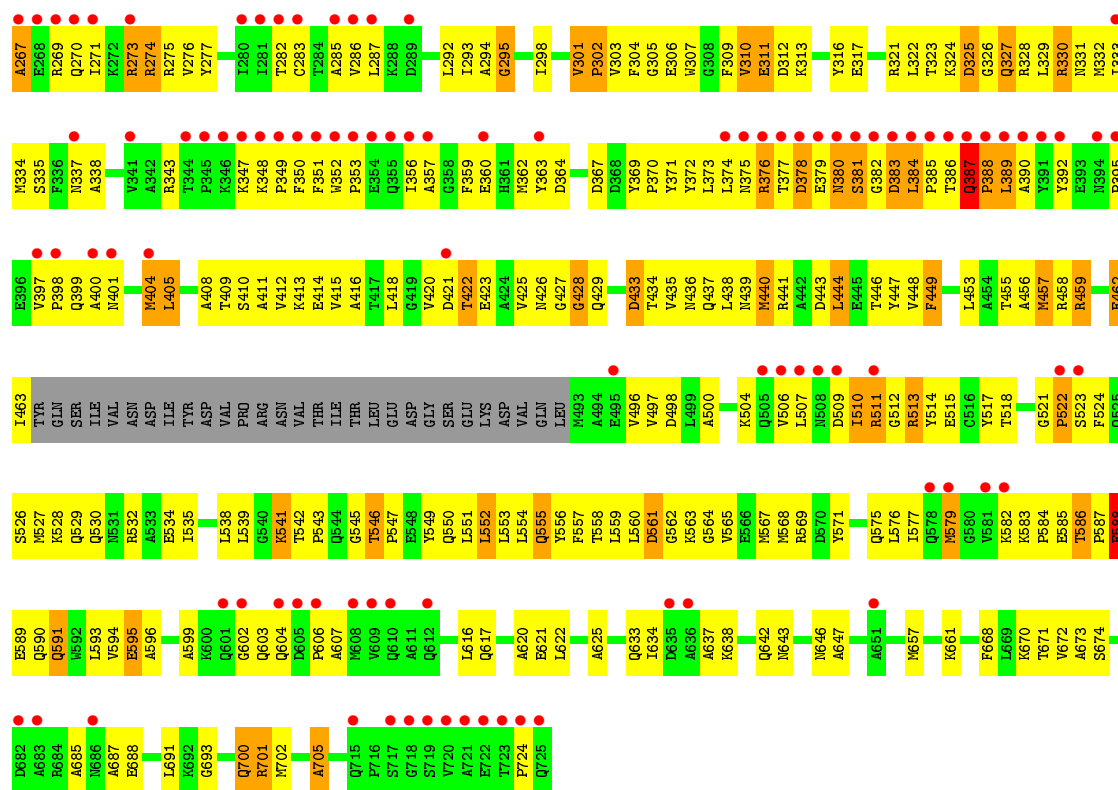
• Molecule 1: Portal protein



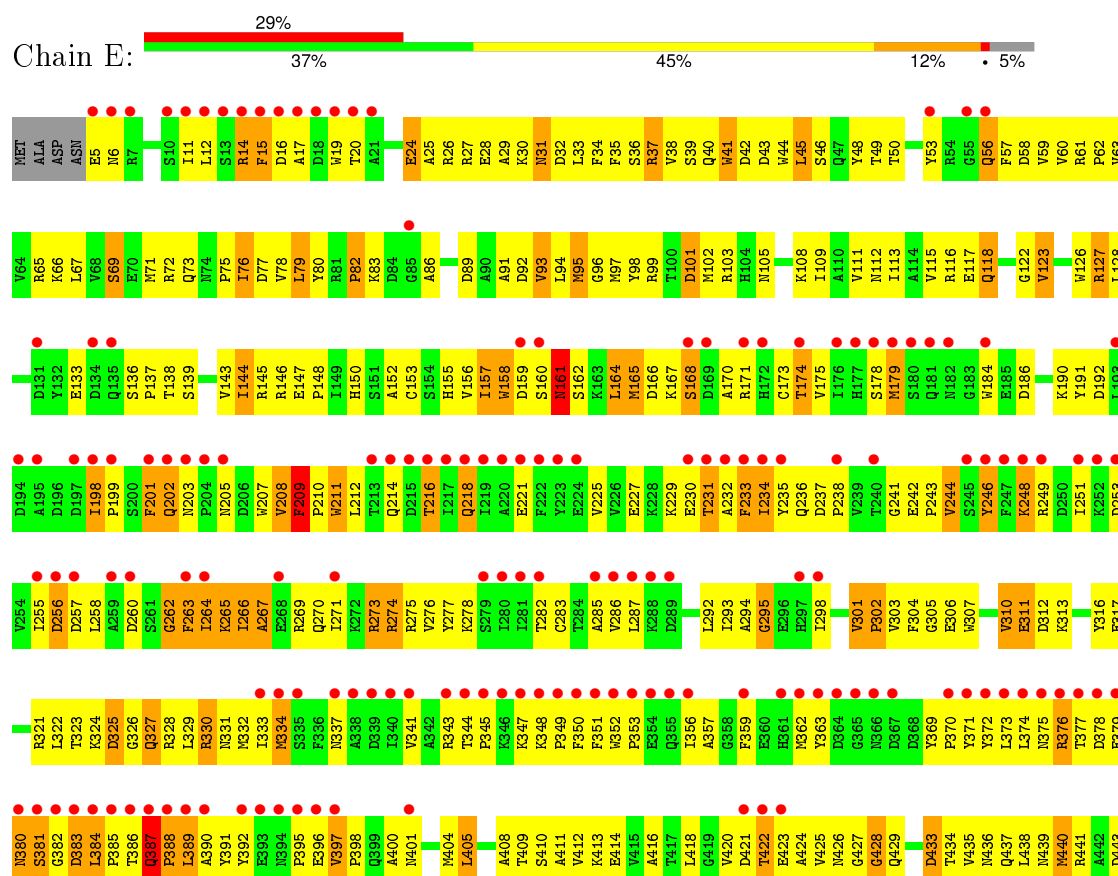
• Molecule 1: Portal protein



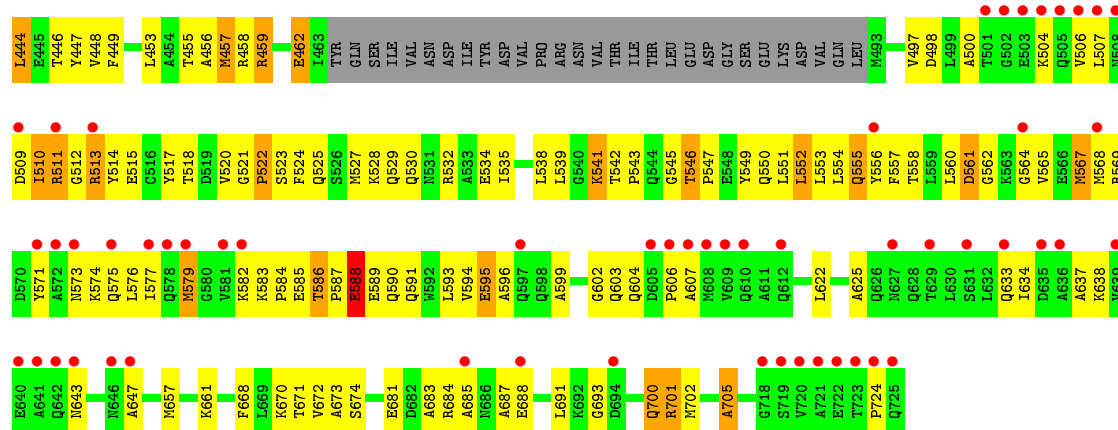




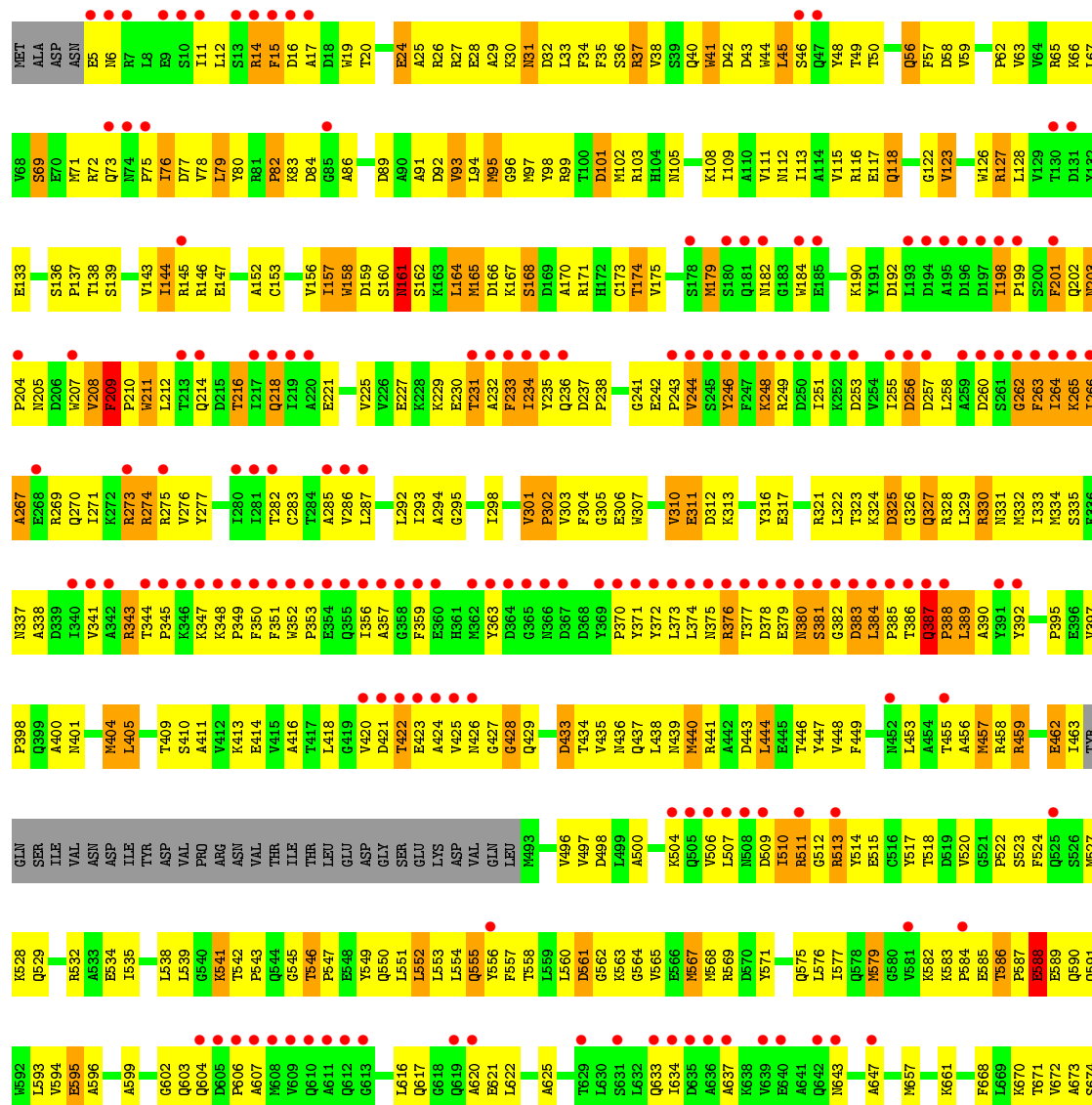
### Chain E:

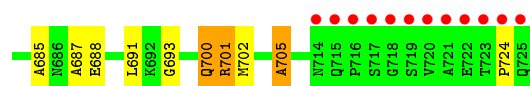




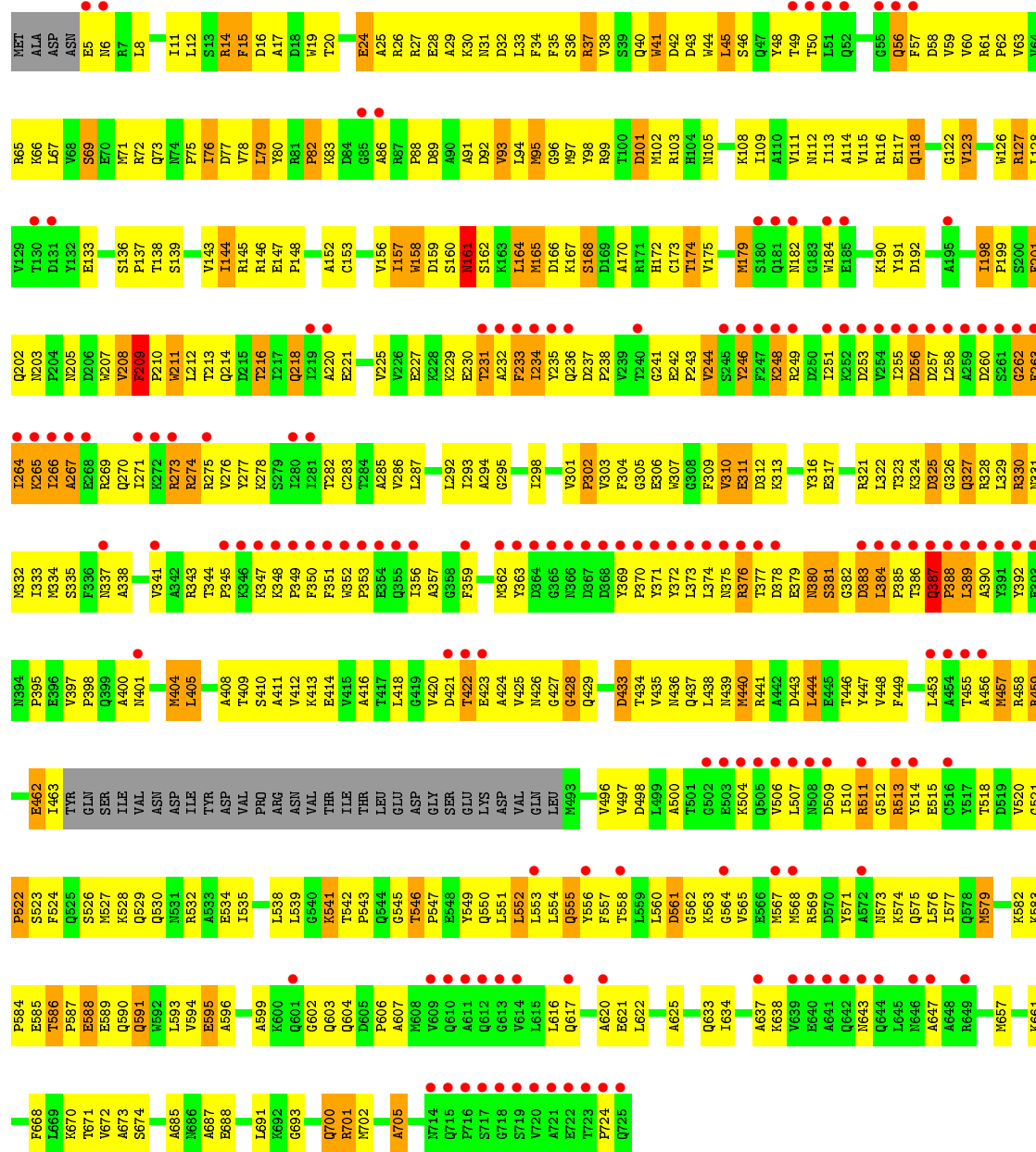


• Molecule 1: Portal protein

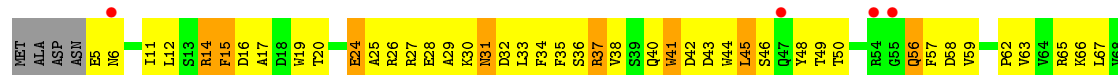




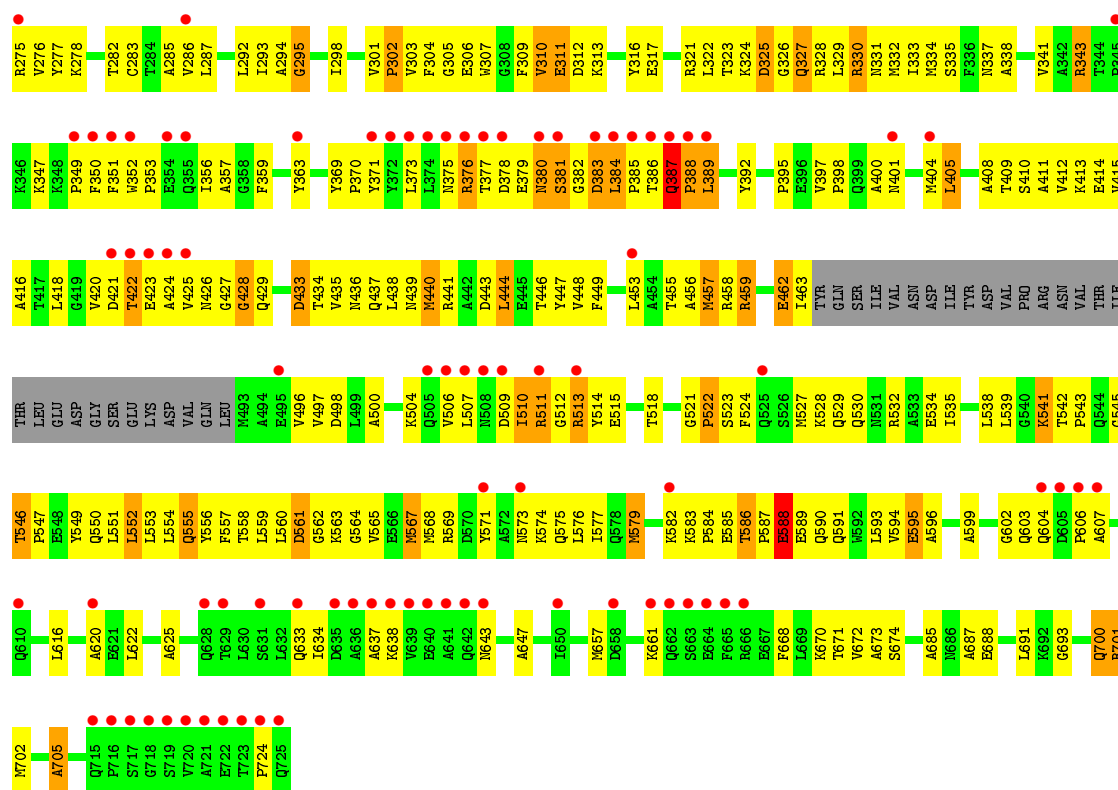
• Molecule 1: Portal protein



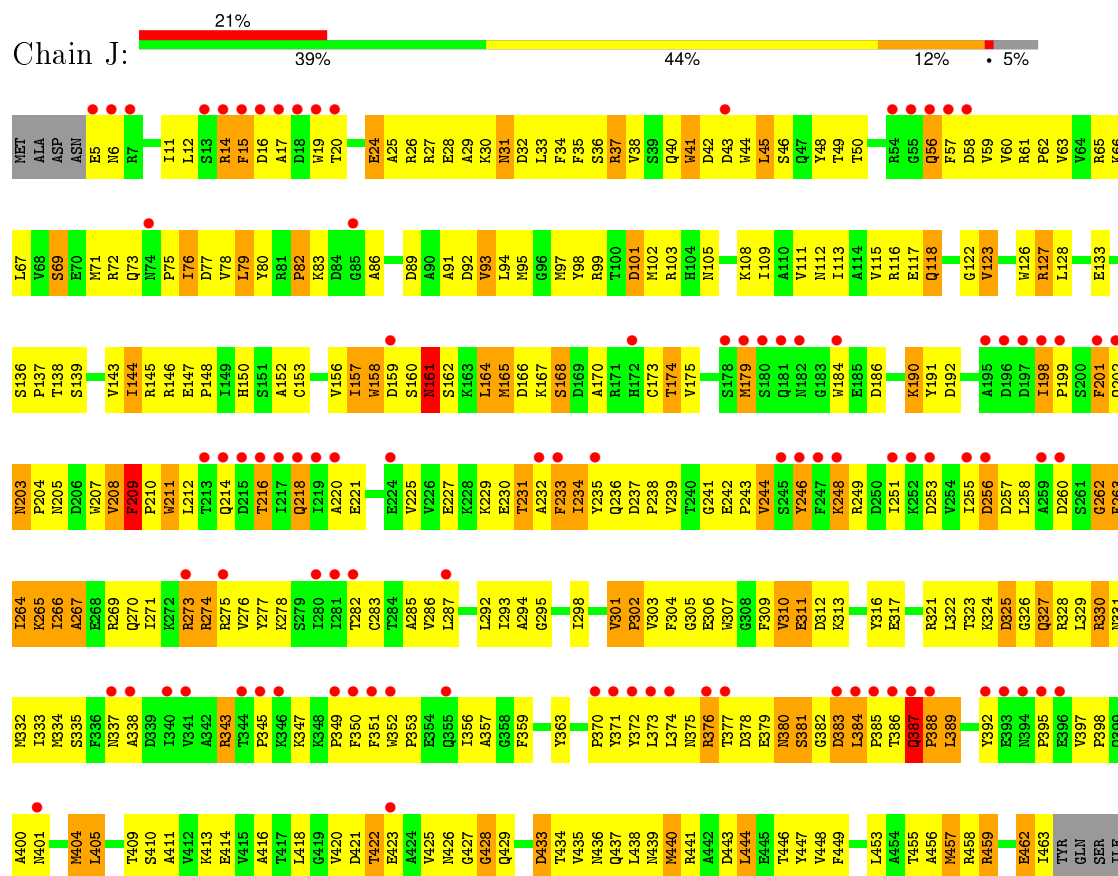
• Molecule 1: Portal protein

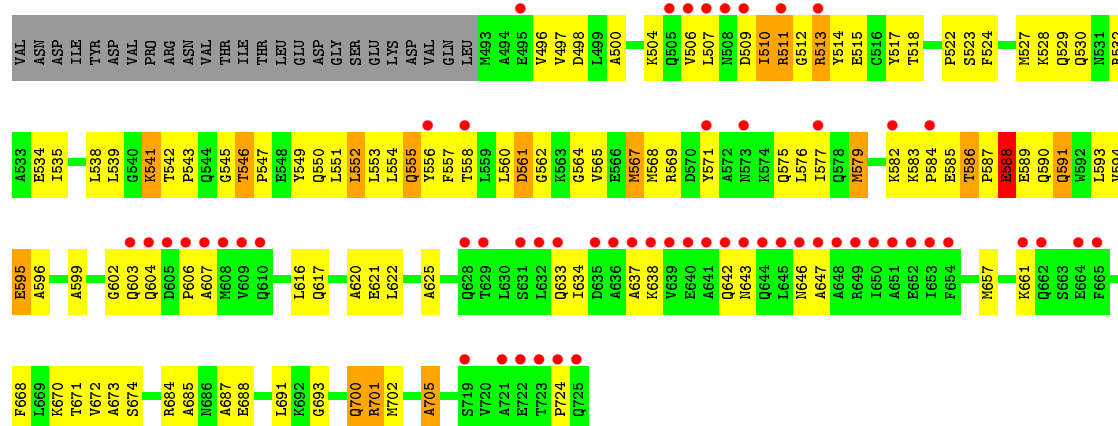




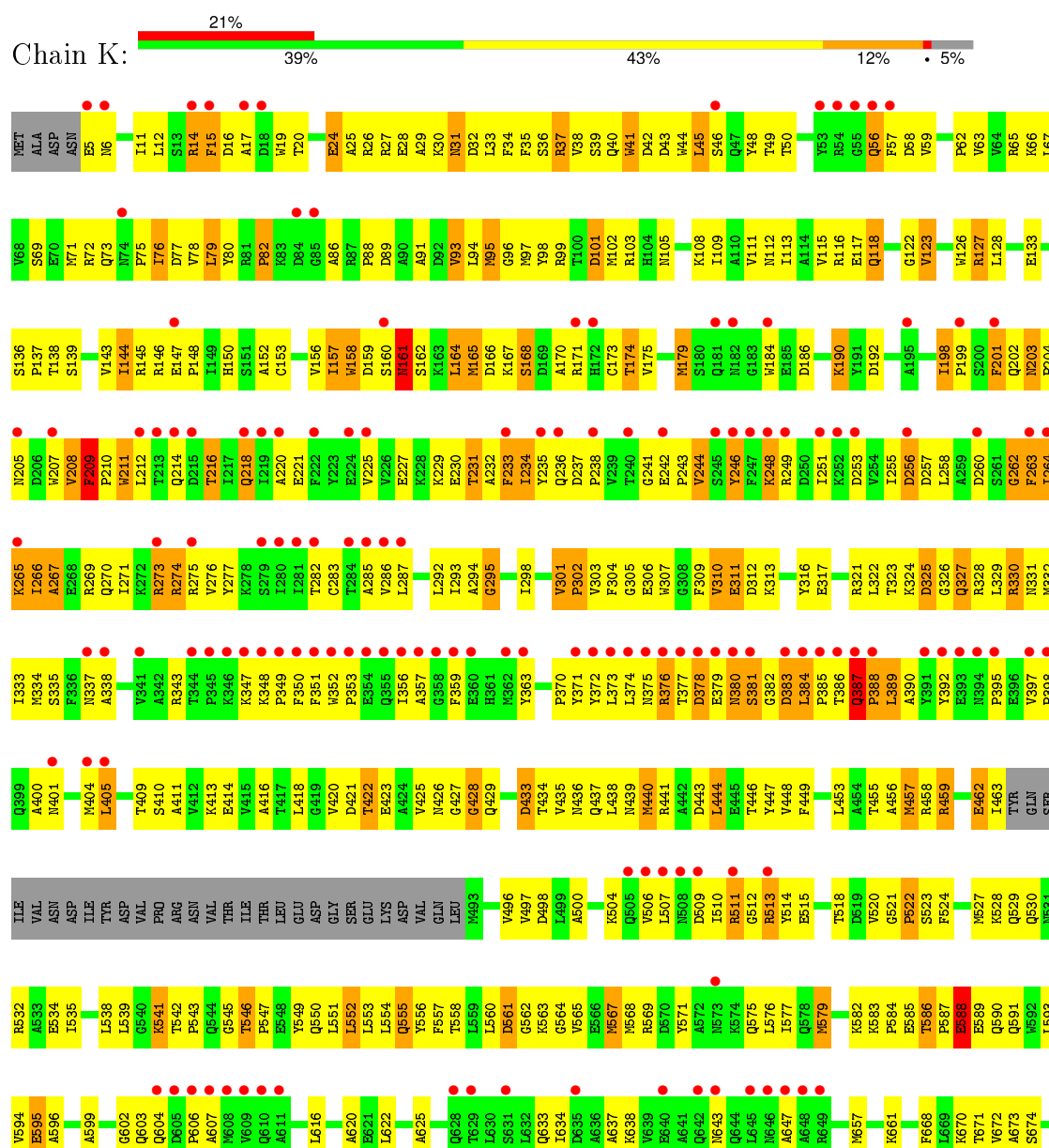


### • Molecule 1: Portal protein



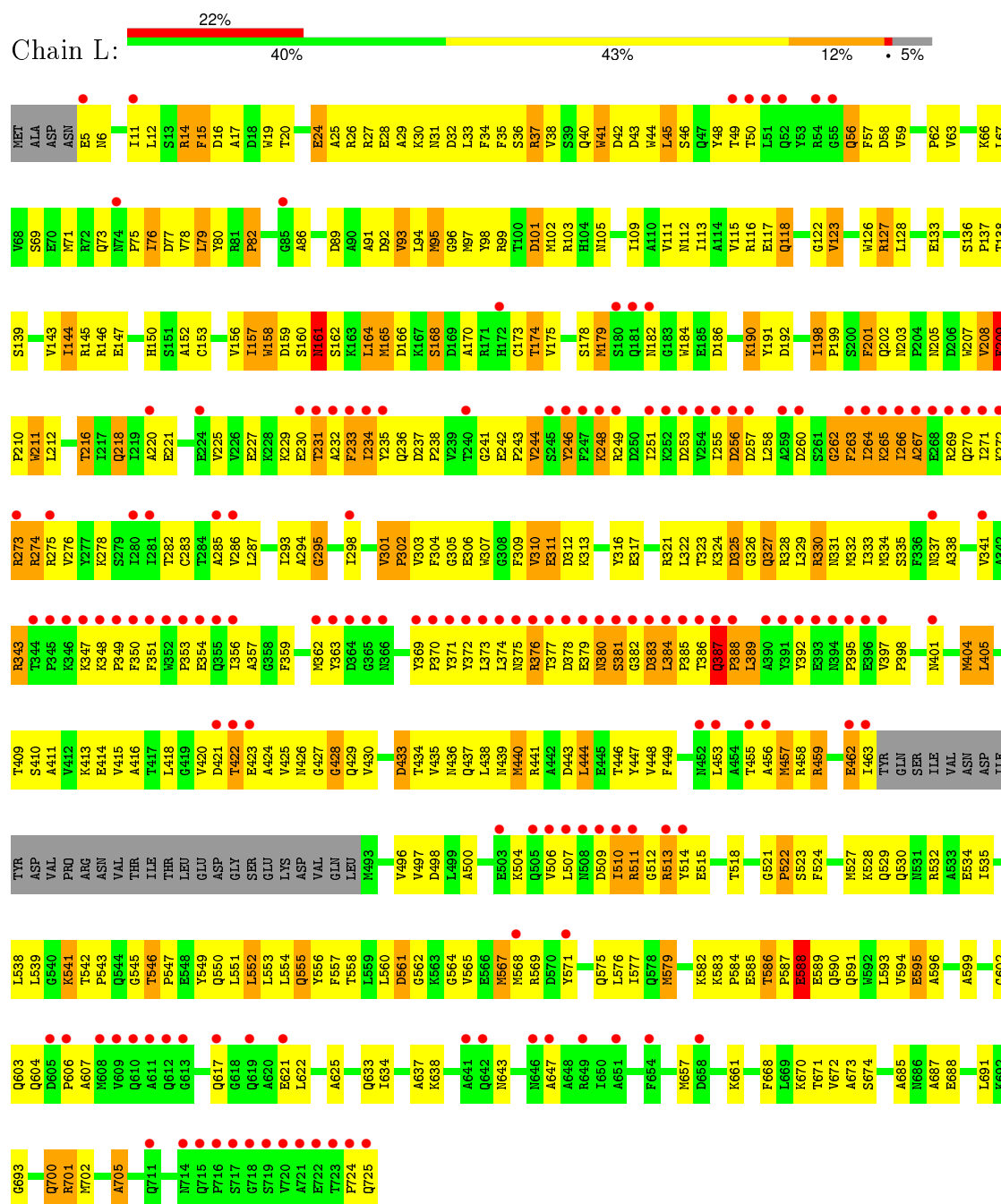


### • Molecule 1: Portal protein





● Molecule 1: Portal protein



## 4 Data and refinement statistics

Property	Value	Source
Space group	I 4	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	408.95Å 408.95Å 260.01Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	59.48 – 7.50 59.48 – 7.50	Depositor EDS
% Data completeness (in resolution range)	92.8 (59.48-7.50) 93.1 (59.48-7.50)	Depositor EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	0.10	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	2.90 (at 7.40Å)	Xtriage
Refinement program	PHENIX (phenix.refine: 1.5_2)	Depositor
R, $R_{free}$	0.187 , 0.263 0.181 , 0.261	Depositor DCC
$R_{free}$ test set	1883 reflections (7.34%)	DCC
Wilson B-factor (Å <sup>2</sup> )	236.8	Xtriage
Anisotropy	0.019	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.42 , 547.0	EDS
Estimated twinning fraction	0.035 for -k,-h,-l	Xtriage
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.45$ , $\langle L^2 \rangle = 0.28$	Xtriage
Outliers	0 of 27188 reflections	Xtriage
$F_o, F_c$ correlation	0.81	EDS
Total number of atoms	61512	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	297.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.70% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical values of  $\langle |L| \rangle$ ,  $\langle L^2 \rangle$  for acentric reflections are 0.5, 0.375 respectively for untwinned datasets, and 0.333, 0.2 for perfectly twinned datasets.

## 5 Model quality ⓘ

### 5.1 Standard geometry ⓘ

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
1	A	0.50	11/5222 (0.2%)	0.58	1/7114 (0.0%)
1	B	0.50	11/5222 (0.2%)	0.58	1/7114 (0.0%)
1	C	0.50	11/5222 (0.2%)	0.58	1/7114 (0.0%)
1	D	0.50	11/5222 (0.2%)	0.58	1/7114 (0.0%)
1	E	0.50	11/5222 (0.2%)	0.58	1/7114 (0.0%)
1	F	0.50	11/5222 (0.2%)	0.58	1/7114 (0.0%)
1	G	0.50	11/5222 (0.2%)	0.58	1/7114 (0.0%)
1	H	0.50	11/5222 (0.2%)	0.58	1/7114 (0.0%)
1	I	0.50	11/5222 (0.2%)	0.58	1/7114 (0.0%)
1	J	0.50	11/5222 (0.2%)	0.58	1/7114 (0.0%)
1	K	0.50	11/5222 (0.2%)	0.58	1/7114 (0.0%)
1	L	0.50	11/5222 (0.2%)	0.58	1/7114 (0.0%)
All	All	0.50	132/62664 (0.2%)	0.58	12/85368 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
1	B	0	1
1	C	0	1
1	D	0	1
1	E	0	1
1	F	0	1
1	G	0	1
1	H	0	1
1	I	0	1
1	J	0	1
1	K	0	1
1	L	0	1
All	All	0	12



All (132) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	165	MET	CG-SD	6.91	1.99	1.81
1	G	165	MET	CG-SD	6.91	1.99	1.81
1	J	165	MET	CG-SD	6.91	1.99	1.81
1	H	165	MET	CG-SD	6.90	1.99	1.81
1	I	165	MET	CG-SD	6.89	1.99	1.81
1	A	165	MET	CG-SD	6.89	1.99	1.81
1	E	165	MET	CG-SD	6.89	1.99	1.81
1	D	165	MET	CG-SD	6.88	1.99	1.81
1	C	165	MET	CG-SD	6.87	1.99	1.81
1	K	165	MET	CG-SD	6.87	1.99	1.81
1	B	165	MET	CG-SD	6.87	1.99	1.81
1	L	165	MET	CG-SD	6.86	1.99	1.81
1	B	579	MET	CG-SD	6.22	1.97	1.81
1	F	579	MET	CG-SD	6.22	1.97	1.81
1	I	579	MET	CG-SD	6.22	1.97	1.81
1	G	579	MET	CG-SD	6.22	1.97	1.81
1	A	579	MET	CG-SD	6.21	1.97	1.81
1	C	579	MET	CG-SD	6.21	1.97	1.81
1	D	579	MET	CG-SD	6.21	1.97	1.81
1	J	579	MET	CG-SD	6.21	1.97	1.81
1	K	579	MET	CG-SD	6.21	1.97	1.81
1	H	579	MET	CG-SD	6.21	1.97	1.81
1	E	579	MET	CG-SD	6.18	1.97	1.81
1	L	579	MET	CG-SD	6.18	1.97	1.81
1	K	457	MET	CG-SD	6.14	1.97	1.81
1	H	457	MET	CG-SD	6.13	1.97	1.81
1	D	457	MET	CG-SD	6.13	1.97	1.81
1	J	457	MET	CG-SD	6.12	1.97	1.81
1	B	457	MET	CG-SD	6.12	1.97	1.81
1	C	457	MET	CG-SD	6.12	1.97	1.81
1	A	457	MET	CG-SD	6.12	1.97	1.81
1	E	457	MET	CG-SD	6.11	1.97	1.81
1	L	457	MET	CG-SD	6.11	1.97	1.81
1	G	457	MET	CG-SD	6.10	1.97	1.81
1	F	457	MET	CG-SD	6.10	1.97	1.81
1	I	457	MET	CG-SD	6.09	1.97	1.81
1	K	334	MET	CG-SD	6.02	1.96	1.81
1	E	334	MET	CG-SD	6.01	1.96	1.81
1	B	334	MET	CG-SD	6.00	1.96	1.81
1	G	334	MET	CG-SD	6.00	1.96	1.81
1	C	334	MET	CG-SD	6.00	1.96	1.81
1	A	334	MET	CG-SD	5.99	1.96	1.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	334	MET	CG-SD	5.99	1.96	1.81
1	J	334	MET	CG-SD	5.99	1.96	1.81
1	D	334	MET	CG-SD	5.99	1.96	1.81
1	L	334	MET	CG-SD	5.99	1.96	1.81
1	I	334	MET	CG-SD	5.99	1.96	1.81
1	H	334	MET	CG-SD	5.98	1.96	1.81
1	C	95	MET	CG-SD	5.93	1.96	1.81
1	E	95	MET	CG-SD	5.93	1.96	1.81
1	H	95	MET	CG-SD	5.93	1.96	1.81
1	K	95	MET	CG-SD	5.92	1.96	1.81
1	B	95	MET	CG-SD	5.92	1.96	1.81
1	A	95	MET	CG-SD	5.91	1.96	1.81
1	D	95	MET	CG-SD	5.91	1.96	1.81
1	J	95	MET	CG-SD	5.91	1.96	1.81
1	G	95	MET	CG-SD	5.90	1.96	1.81
1	F	95	MET	CG-SD	5.89	1.96	1.81
1	I	95	MET	CG-SD	5.89	1.96	1.81
1	L	95	MET	CG-SD	5.89	1.96	1.81
1	L	440	MET	CG-SD	5.59	1.95	1.81
1	C	440	MET	CG-SD	5.57	1.95	1.81
1	D	440	MET	CG-SD	5.57	1.95	1.81
1	G	440	MET	CG-SD	5.56	1.95	1.81
1	I	440	MET	CG-SD	5.56	1.95	1.81
1	J	440	MET	CG-SD	5.56	1.95	1.81
1	H	440	MET	CG-SD	5.56	1.95	1.81
1	B	440	MET	CG-SD	5.56	1.95	1.81
1	A	440	MET	CG-SD	5.55	1.95	1.81
1	E	440	MET	CG-SD	5.55	1.95	1.81
1	F	440	MET	CG-SD	5.55	1.95	1.81
1	K	440	MET	CG-SD	5.55	1.95	1.81
1	L	568	MET	CG-SD	5.51	1.95	1.81
1	D	567	MET	CG-SD	5.51	1.95	1.81
1	F	568	MET	CG-SD	5.50	1.95	1.81
1	B	567	MET	CG-SD	5.50	1.95	1.81
1	E	567	MET	CG-SD	5.50	1.95	1.81
1	I	567	MET	CG-SD	5.50	1.95	1.81
1	A	567	MET	CG-SD	5.50	1.95	1.81
1	F	567	MET	CG-SD	5.50	1.95	1.81
1	K	567	MET	CG-SD	5.50	1.95	1.81
1	L	567	MET	CG-SD	5.50	1.95	1.81
1	B	568	MET	CG-SD	5.50	1.95	1.81
1	C	568	MET	CG-SD	5.50	1.95	1.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	567	MET	CG-SD	5.49	1.95	1.81
1	J	567	MET	CG-SD	5.49	1.95	1.81
1	A	568	MET	CG-SD	5.49	1.95	1.81
1	C	567	MET	CG-SD	5.49	1.95	1.81
1	H	568	MET	CG-SD	5.49	1.95	1.81
1	I	568	MET	CG-SD	5.48	1.95	1.81
1	H	567	MET	CG-SD	5.48	1.95	1.81
1	D	568	MET	CG-SD	5.47	1.95	1.81
1	K	568	MET	CG-SD	5.47	1.95	1.81
1	J	568	MET	CG-SD	5.46	1.95	1.81
1	G	568	MET	CG-SD	5.46	1.95	1.81
1	E	568	MET	CG-SD	5.46	1.95	1.81
1	H	179	MET	CG-SD	5.40	1.95	1.81
1	L	179	MET	CG-SD	5.39	1.95	1.81
1	F	179	MET	CG-SD	5.39	1.95	1.81
1	B	179	MET	CG-SD	5.39	1.95	1.81
1	A	179	MET	CG-SD	5.39	1.95	1.81
1	K	179	MET	CG-SD	5.39	1.95	1.81
1	E	179	MET	CG-SD	5.38	1.95	1.81
1	C	179	MET	CG-SD	5.38	1.95	1.81
1	I	179	MET	CG-SD	5.37	1.95	1.81
1	G	179	MET	CG-SD	5.37	1.95	1.81
1	J	179	MET	CG-SD	5.37	1.95	1.81
1	D	179	MET	CG-SD	5.37	1.95	1.81
1	G	527	MET	CG-SD	5.21	1.94	1.81
1	K	527	MET	CG-SD	5.21	1.94	1.81
1	F	527	MET	CG-SD	5.20	1.94	1.81
1	E	527	MET	CG-SD	5.20	1.94	1.81
1	L	527	MET	CG-SD	5.20	1.94	1.81
1	A	527	MET	CG-SD	5.19	1.94	1.81
1	D	527	MET	CG-SD	5.19	1.94	1.81
1	I	527	MET	CG-SD	5.19	1.94	1.81
1	B	527	MET	CG-SD	5.19	1.94	1.81
1	K	404	MET	CG-SD	5.18	1.94	1.81
1	J	527	MET	CG-SD	5.17	1.94	1.81
1	C	527	MET	CG-SD	5.17	1.94	1.81
1	H	527	MET	CG-SD	5.17	1.94	1.81
1	B	404	MET	CG-SD	5.17	1.94	1.81
1	H	404	MET	CG-SD	5.16	1.94	1.81
1	A	404	MET	CG-SD	5.15	1.94	1.81
1	I	404	MET	CG-SD	5.15	1.94	1.81
1	G	404	MET	CG-SD	5.15	1.94	1.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	404	MET	CG-SD	5.14	1.94	1.81
1	E	404	MET	CG-SD	5.14	1.94	1.81
1	F	404	MET	CG-SD	5.13	1.94	1.81
1	L	404	MET	CG-SD	5.13	1.94	1.81
1	J	404	MET	CG-SD	5.13	1.94	1.81
1	D	404	MET	CG-SD	5.13	1.94	1.81

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	97	MET	CB-CG-SD	-6.24	93.67	112.40
1	E	97	MET	CB-CG-SD	-6.24	93.68	112.40
1	B	97	MET	CB-CG-SD	-6.24	93.68	112.40
1	A	97	MET	CB-CG-SD	-6.24	93.69	112.40
1	I	97	MET	CB-CG-SD	-6.24	93.69	112.40
1	H	97	MET	CB-CG-SD	-6.23	93.70	112.40
1	K	97	MET	CB-CG-SD	-6.23	93.71	112.40
1	L	97	MET	CB-CG-SD	-6.23	93.71	112.40
1	C	97	MET	CB-CG-SD	-6.23	93.71	112.40
1	D	97	MET	CB-CG-SD	-6.23	93.71	112.40
1	F	97	MET	CB-CG-SD	-6.23	93.72	112.40
1	J	97	MET	CB-CG-SD	-6.23	93.72	112.40

There are no chirality outliers.

All (12) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	231	THR	Peptide
1	B	231	THR	Peptide
1	C	231	THR	Peptide
1	D	231	THR	Peptide
1	E	231	THR	Peptide
1	F	231	THR	Peptide
1	G	231	THR	Peptide
1	H	231	THR	Peptide
1	I	231	THR	Peptide
1	J	231	THR	Peptide
1	K	231	THR	Peptide
1	L	231	THR	Peptide

## 5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	5126	0	4586	548	9
1	B	5126	0	4586	522	0
1	C	5126	0	4586	499	0
1	D	5126	0	4586	559	0
1	E	5126	0	4586	551	8
1	F	5126	0	4586	522	1
1	G	5126	0	4586	538	0
1	H	5126	0	4586	509	3
1	I	5126	0	4586	516	0
1	J	5126	0	4586	516	3
1	K	5126	0	4586	510	0
1	L	5126	0	4586	538	0
All	All	61512	0	55032	5771	12

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 50.

All (5771) 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:A:58:ASP:OD2	1:L:322:LEU:CD1	1.73	1.35
1:G:322:LEU:HD12	1:H:58:ASP:OD2	1.23	1.34
1:I:322:LEU:HD12	1:J:58:ASP:OD2	1.26	1.34
1:F:322:LEU:HD12	1:G:58:ASP:OD2	1.19	1.32
1:H:322:LEU:HD12	1:I:58:ASP:OD2	1.19	1.31
1:J:322:LEU:HD12	1:K:58:ASP:OD2	1.21	1.27
1:F:322:LEU:CD1	1:G:58:ASP:OD2	1.84	1.26
1:E:322:LEU:HD12	1:F:58:ASP:OD2	1.34	1.25
1:D:322:LEU:HD12	1:E:58:ASP:OD2	1.15	1.25
1:J:322:LEU:CD1	1:K:58:ASP:OD2	1.83	1.24
1:G:322:LEU:CD1	1:H:58:ASP:OD2	1.87	1.22
1:B:322:LEU:HD12	1:C:58:ASP:OD2	1.36	1.21
1:A:58:ASP:OD2	1:L:322:LEU:HD12	1.02	1.20
1:A:322:LEU:CD1	1:B:58:ASP:OD2	1.91	1.18
1:H:322:LEU:CD1	1:I:58:ASP:OD2	1.91	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:322:LEU:HD12	1:B:58:ASP:OD2	1.38	1.16
1:I:322:LEU:CD1	1:J:58:ASP:OD2	1.94	1.14
1:A:561:ASP:HB2	1:L:89:ASP:HA	1.28	1.12
1:K:322:LEU:HD12	1:L:58:ASP:OD2	1.48	1.12
1:C:322:LEU:HD12	1:D:58:ASP:OD2	1.50	1.12
1:F:26:ARG:HG2	1:G:212:LEU:HD22	1.32	1.11
1:J:82:PRO:HD2	1:K:560:LEU:HD13	1.31	1.11
1:A:560:LEU:HD22	1:L:82:PRO:HG2	1.14	1.11
1:I:82:PRO:HG2	1:J:560:LEU:HD22	1.33	1.09
1:I:82:PRO:HD2	1:J:560:LEU:HD13	1.26	1.09
1:A:560:LEU:HD13	1:L:82:PRO:HD2	1.07	1.07
1:D:82:PRO:HD2	1:E:560:LEU:HD13	1.34	1.06
1:D:82:PRO:HG2	1:E:560:LEU:HD22	1.34	1.06
1:D:322:LEU:CD1	1:E:58:ASP:OD2	2.04	1.05
1:A:26:ARG:HG2	1:B:212:LEU:HD22	1.32	1.05
1:A:56:GLN:HB2	1:L:325:ASP:OD2	1.57	1.05
1:I:89:ASP:HA	1:J:561:ASP:HB2	1.37	1.05
1:A:554:LEU:HD21	1:B:564:GLY:HA2	1.35	1.05
1:G:82:PRO:HD2	1:H:560:LEU:HD13	1.38	1.04
1:E:322:LEU:CD1	1:F:58:ASP:OD2	2.05	1.03
1:C:554:LEU:HD21	1:D:564:GLY:HA2	1.40	1.03
1:K:77:ASP:HB2	1:K:523:SER:HA	1.40	1.03
1:A:77:ASP:HB2	1:A:523:SER:HA	1.40	1.02
1:I:77:ASP:HB2	1:I:523:SER:HA	1.40	1.02
1:J:77:ASP:HB2	1:J:523:SER:HA	1.40	1.02
1:F:77:ASP:HB2	1:F:523:SER:HA	1.40	1.02
1:D:77:ASP:HB2	1:D:523:SER:HA	1.40	1.01
1:L:77:ASP:HB2	1:L:523:SER:HA	1.40	1.01
1:C:322:LEU:CD1	1:D:58:ASP:OD2	2.09	1.00
1:B:77:ASP:HB2	1:B:523:SER:HA	1.40	1.00
1:C:77:ASP:HB2	1:C:523:SER:HA	1.40	1.00
1:G:77:ASP:HB2	1:G:523:SER:HA	1.40	0.99
1:E:77:ASP:HB2	1:E:523:SER:HA	1.40	0.99
1:H:77:ASP:HB2	1:H:523:SER:HA	1.40	0.99
1:F:82:PRO:HD2	1:G:560:LEU:HD13	1.40	0.99
1:H:236:GLN:HB2	1:H:265:LYS:HZ3	1.28	0.99
1:K:236:GLN:HB2	1:K:265:LYS:HZ3	1.28	0.99
1:F:554:LEU:HD21	1:G:564:GLY:HA2	1.45	0.99
1:F:78:VAL:HG21	1:F:444:LEU:HD11	1.46	0.98
1:J:78:VAL:HG21	1:J:444:LEU:HD11	1.46	0.98
1:D:78:VAL:HG21	1:D:444:LEU:HD11	1.46	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:72:ARG:HG2	1:L:434:THR:HG21	1.44	0.98
1:J:59:VAL:O	1:J:62:PRO:HD2	1.64	0.98
1:F:59:VAL:O	1:F:62:PRO:HD2	1.64	0.98
1:D:59:VAL:O	1:D:62:PRO:HD2	1.64	0.97
1:C:78:VAL:HG21	1:C:444:LEU:HD11	1.46	0.97
1:D:352:TRP:CZ2	1:E:385:PRO:HG2	1.99	0.97
1:J:82:PRO:HG2	1:K:560:LEU:HD22	1.42	0.97
1:K:78:VAL:HG21	1:K:444:LEU:HD11	1.46	0.97
1:A:78:VAL:HG21	1:A:444:LEU:HD11	1.46	0.97
1:G:89:ASP:HA	1:H:561:ASP:HB2	1.40	0.97
1:C:59:VAL:O	1:C:62:PRO:HD2	1.64	0.97
1:B:59:VAL:O	1:B:62:PRO:HD2	1.64	0.97
1:G:236:GLN:HB2	1:G:265:LYS:HZ3	1.29	0.97
1:H:82:PRO:HD2	1:I:560:LEU:HD13	1.46	0.97
1:B:322:LEU:CD1	1:C:58:ASP:OD2	2.11	0.96
1:E:78:VAL:HG21	1:E:444:LEU:HD11	1.46	0.96
1:A:59:VAL:O	1:A:62:PRO:HD2	1.64	0.96
1:E:554:LEU:HD21	1:F:564:GLY:HA2	1.47	0.96
1:K:59:VAL:O	1:K:62:PRO:HD2	1.64	0.96
1:E:59:VAL:O	1:E:62:PRO:HD2	1.64	0.96
1:L:59:VAL:O	1:L:62:PRO:HD2	1.64	0.96
1:A:546:THR:HG23	1:A:547:PRO:HD3	1.48	0.96
1:G:59:VAL:O	1:G:62:PRO:HD2	1.64	0.96
1:B:546:THR:HG23	1:B:547:PRO:HD3	1.48	0.96
1:H:78:VAL:HG21	1:H:444:LEU:HD11	1.46	0.96
1:E:546:THR:HG23	1:E:547:PRO:HD3	1.48	0.95
1:H:59:VAL:O	1:H:62:PRO:HD2	1.64	0.95
1:J:236:GLN:HB2	1:J:265:LYS:HZ3	1.30	0.95
1:A:82:PRO:HD2	1:B:560:LEU:HD13	1.48	0.95
1:L:78:VAL:HG21	1:L:444:LEU:HD11	1.46	0.95
1:I:14:ARG:HA	1:I:14:ARG:HE	1.31	0.95
1:B:78:VAL:HG21	1:B:444:LEU:HD11	1.46	0.95
1:J:26:ARG:HG2	1:K:212:LEU:HD22	1.46	0.95
1:G:78:VAL:HG21	1:G:444:LEU:HD11	1.46	0.95
1:I:78:VAL:HG21	1:I:444:LEU:HD11	1.46	0.95
1:A:561:ASP:OD2	1:L:92:ASP:HB3	1.65	0.95
1:D:411:ALA:CB	1:E:57:PHE:HD1	1.79	0.95
1:I:59:VAL:O	1:I:62:PRO:HD2	1.64	0.95
1:J:546:THR:HG23	1:J:547:PRO:HD3	1.48	0.95
1:A:14:ARG:HA	1:A:14:ARG:HE	1.31	0.95
1:C:546:THR:HG23	1:C:547:PRO:HD3	1.48	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:14:ARG:HE	1:E:14:ARG:HA	1.31	0.94
1:J:14:ARG:HA	1:J:14:ARG:HE	1.31	0.94
1:C:236:GLN:HB2	1:C:265:LYS:HZ3	1.30	0.94
1:L:546:THR:HG23	1:L:547:PRO:HD3	1.48	0.94
1:H:89:ASP:HA	1:I:561:ASP:HB2	1.50	0.94
1:K:546:THR:HG23	1:K:547:PRO:HD3	1.48	0.94
1:J:89:ASP:HA	1:K:561:ASP:HB2	1.50	0.94
1:H:14:ARG:HA	1:H:14:ARG:HE	1.31	0.94
1:H:546:THR:HG23	1:H:547:PRO:HD3	1.48	0.94
1:G:546:THR:HG23	1:G:547:PRO:HD3	1.48	0.94
1:I:11:ILE:HD12	1:I:285:ALA:HA	1.50	0.94
1:C:11:ILE:HD12	1:C:285:ALA:HA	1.50	0.94
1:K:14:ARG:HE	1:K:14:ARG:HA	1.31	0.93
1:A:236:GLN:HB2	1:A:265:LYS:HZ3	1.33	0.93
1:G:14:ARG:HA	1:G:14:ARG:HE	1.31	0.93
1:F:236:GLN:HB2	1:F:265:LYS:HZ3	1.33	0.93
1:G:11:ILE:HD12	1:G:285:ALA:HA	1.50	0.93
1:A:11:ILE:HD12	1:A:285:ALA:HA	1.50	0.93
1:G:82:PRO:HG2	1:H:560:LEU:HD22	1.50	0.93
1:J:11:ILE:HD12	1:J:285:ALA:HA	1.50	0.93
1:D:546:THR:HG23	1:D:547:PRO:HD3	1.48	0.93
1:L:14:ARG:HA	1:L:14:ARG:HE	1.31	0.93
1:I:236:GLN:HB2	1:I:265:LYS:HZ3	1.30	0.93
1:D:11:ILE:HD12	1:D:285:ALA:HA	1.50	0.92
1:B:511:ARG:HA	1:B:513:ARG:HD2	1.52	0.92
1:F:546:THR:HG23	1:F:547:PRO:HD3	1.48	0.92
1:F:14:ARG:HA	1:F:14:ARG:HE	1.31	0.92
1:L:236:GLN:HB2	1:L:265:LYS:HZ3	1.35	0.92
1:J:511:ARG:HA	1:J:513:ARG:HD2	1.52	0.92
1:B:14:ARG:HA	1:B:14:ARG:HE	1.31	0.92
1:D:14:ARG:HE	1:D:14:ARG:HA	1.31	0.92
1:D:511:ARG:HA	1:D:513:ARG:HD2	1.52	0.92
1:K:511:ARG:HA	1:K:513:ARG:HD2	1.52	0.92
1:B:82:PRO:HD2	1:C:560:LEU:HD13	1.52	0.92
1:I:511:ARG:HA	1:I:513:ARG:HD2	1.52	0.91
1:E:511:ARG:HA	1:E:513:ARG:HD2	1.52	0.91
1:L:511:ARG:HA	1:L:513:ARG:HD2	1.52	0.91
1:G:37:ARG:HH21	1:G:37:ARG:HB3	1.36	0.91
1:C:511:ARG:HA	1:C:513:ARG:HD2	1.52	0.91
1:I:546:THR:HG23	1:I:547:PRO:HD3	1.48	0.91
1:E:82:PRO:HD2	1:F:560:LEU:HD13	1.52	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:37:ARG:HH21	1:J:37:ARG:HB3	1.36	0.91
1:L:37:ARG:HB3	1:L:37:ARG:HH21	1.36	0.91
1:J:554:LEU:HD21	1:K:564:GLY:HA2	1.52	0.91
1:A:511:ARG:HA	1:A:513:ARG:HD2	1.52	0.91
1:H:511:ARG:HA	1:H:513:ARG:HD2	1.52	0.91
1:E:236:GLN:HB2	1:E:265:LYS:HZ3	1.35	0.91
1:H:11:ILE:HD12	1:H:285:ALA:HA	1.50	0.91
1:C:14:ARG:HE	1:C:14:ARG:HA	1.31	0.91
1:G:26:ARG:HG2	1:H:212:LEU:HD22	1.53	0.91
1:D:401:ASN:OD1	1:E:341:VAL:HG13	1.70	0.91
1:D:37:ARG:HB3	1:D:37:ARG:HH21	1.36	0.90
1:C:37:ARG:HH21	1:C:37:ARG:HB3	1.36	0.90
1:B:11:ILE:HD12	1:B:285:ALA:HA	1.50	0.90
1:K:11:ILE:HD12	1:K:285:ALA:HA	1.50	0.90
1:G:77:ASP:HB2	1:G:523:SER:CA	2.02	0.90
1:E:11:ILE:HD12	1:E:285:ALA:HA	1.50	0.90
1:F:34:PHE:HZ	1:F:328:ARG:HH22	1.19	0.90
1:F:11:ILE:HD12	1:F:285:ALA:HA	1.50	0.90
1:F:37:ARG:HH21	1:F:37:ARG:HB3	1.36	0.90
1:D:77:ASP:HB2	1:D:523:SER:CA	2.02	0.90
1:B:37:ARG:HH21	1:B:37:ARG:HB3	1.36	0.90
1:I:37:ARG:HH21	1:I:37:ARG:HB3	1.36	0.90
1:H:37:ARG:HH21	1:H:37:ARG:HB3	1.36	0.90
1:A:37:ARG:HB3	1:A:37:ARG:HH21	1.36	0.90
1:L:77:ASP:HB2	1:L:523:SER:CA	2.02	0.90
1:E:77:ASP:HB2	1:E:523:SER:CA	2.02	0.90
1:F:89:ASP:HA	1:G:561:ASP:HB2	1.54	0.90
1:L:11:ILE:HD12	1:L:285:ALA:HA	1.50	0.90
1:B:77:ASP:HB2	1:B:523:SER:CA	2.01	0.90
1:D:236:GLN:HB2	1:D:265:LYS:HZ3	1.36	0.90
1:J:77:ASP:HB2	1:J:523:SER:CA	2.01	0.89
1:C:77:ASP:HB2	1:C:523:SER:CA	2.02	0.89
1:I:34:PHE:HZ	1:I:328:ARG:HH22	1.19	0.89
1:G:511:ARG:HA	1:G:513:ARG:HD2	1.52	0.89
1:K:37:ARG:HH21	1:K:37:ARG:HB3	1.36	0.89
1:K:77:ASP:HB2	1:K:523:SER:CA	2.02	0.89
1:F:82:PRO:HG2	1:G:560:LEU:HD22	1.53	0.89
1:F:511:ARG:HA	1:F:513:ARG:HD2	1.52	0.89
1:I:77:ASP:HB2	1:I:523:SER:CA	2.02	0.89
1:F:77:ASP:HB2	1:F:523:SER:CA	2.02	0.89
1:E:37:ARG:HH21	1:E:37:ARG:HB3	1.36	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:236:GLN:HB2	1:B:265:LYS:HZ3	1.35	0.89
1:A:210:PRO:HD2	1:A:211:TRP:CZ3	2.08	0.89
1:B:210:PRO:HD2	1:B:211:TRP:CZ3	2.08	0.89
1:J:210:PRO:HD2	1:J:211:TRP:CZ3	2.08	0.89
1:C:27:ARG:HG2	1:D:212:LEU:HD13	1.53	0.89
1:D:309:PHE:HB2	1:E:150:HIS:CG	2.08	0.89
1:D:138:THR:H	1:D:143:VAL:HG22	1.37	0.89
1:A:77:ASP:HB2	1:A:523:SER:CA	2.02	0.89
1:H:77:ASP:HB2	1:H:523:SER:CA	2.02	0.89
1:C:34:PHE:HZ	1:C:328:ARG:HH22	1.19	0.89
1:F:210:PRO:HD2	1:F:211:TRP:CZ3	2.08	0.88
1:I:25:ALA:O	1:I:29:ALA:HB3	1.73	0.88
1:G:89:ASP:HA	1:H:561:ASP:CB	2.03	0.88
1:D:378:ASP:OD2	1:E:376:ARG:NH2	2.06	0.88
1:E:26:ARG:HG2	1:F:212:LEU:HD22	1.55	0.88
1:F:25:ALA:O	1:F:29:ALA:HB3	1.74	0.88
1:E:210:PRO:HD2	1:E:211:TRP:CZ3	2.08	0.88
1:D:390:ALA:CB	1:E:387:GLN:HB2	2.04	0.88
1:J:577:ILE:HG12	1:J:582:LYS:HG2	1.56	0.88
1:G:210:PRO:HD2	1:G:211:TRP:CZ3	2.08	0.88
1:B:34:PHE:HZ	1:B:328:ARG:HH22	1.19	0.88
1:L:25:ALA:O	1:L:29:ALA:HB3	1.73	0.88
1:K:210:PRO:HD2	1:K:211:TRP:CZ3	2.08	0.88
1:D:411:ALA:HB1	1:E:57:PHE:HD1	1.37	0.88
1:D:34:PHE:HZ	1:D:328:ARG:HH22	1.19	0.88
1:L:210:PRO:HD2	1:L:211:TRP:CZ3	2.08	0.88
1:C:210:PRO:HD2	1:C:211:TRP:CZ3	2.08	0.88
1:J:34:PHE:HZ	1:J:328:ARG:HH22	1.19	0.88
1:E:34:PHE:HZ	1:E:328:ARG:HH22	1.19	0.88
1:K:427:GLY:HA3	1:K:429:GLN:HE22	1.39	0.88
1:K:25:ALA:O	1:K:29:ALA:HB3	1.73	0.88
1:D:210:PRO:HD2	1:D:211:TRP:CZ3	2.08	0.88
1:F:138:THR:HG23	1:F:143:VAL:HG22	1.56	0.88
1:J:138:THR:HG23	1:J:143:VAL:HG22	1.56	0.88
1:D:577:ILE:HG12	1:D:582:LYS:HG2	1.56	0.88
1:I:138:THR:HG23	1:I:143:VAL:HG22	1.56	0.88
1:H:210:PRO:HD2	1:H:211:TRP:CZ3	2.08	0.88
1:C:25:ALA:O	1:C:29:ALA:HB3	1.73	0.88
1:J:25:ALA:O	1:J:29:ALA:HB3	1.73	0.88
1:K:554:LEU:HD21	1:L:564:GLY:HA2	1.56	0.88
1:I:210:PRO:HD2	1:I:211:TRP:CZ3	2.08	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:587:PRO:HD2	1:L:589:GLU:HG3	1.56	0.88
1:F:138:THR:H	1:F:143:VAL:HG22	1.37	0.88
1:H:587:PRO:HD2	1:H:589:GLU:HG3	1.56	0.88
1:E:587:PRO:HD2	1:E:589:GLU:HG3	1.56	0.88
1:J:138:THR:H	1:J:143:VAL:HG22	1.37	0.87
1:E:577:ILE:HG12	1:E:582:LYS:HG2	1.56	0.87
1:E:138:THR:HG23	1:E:143:VAL:HG22	1.56	0.87
1:I:577:ILE:HG12	1:I:582:LYS:HG2	1.56	0.87
1:C:577:ILE:HG12	1:C:582:LYS:HG2	1.56	0.87
1:A:25:ALA:O	1:A:29:ALA:HB3	1.73	0.87
1:L:427:GLY:HA3	1:L:429:GLN:HE22	1.39	0.87
1:C:138:THR:H	1:C:143:VAL:HG22	1.37	0.87
1:F:577:ILE:HG12	1:F:582:LYS:HG2	1.56	0.87
1:H:25:ALA:O	1:H:29:ALA:HB3	1.73	0.87
1:E:25:ALA:O	1:E:29:ALA:HB3	1.74	0.87
1:B:138:THR:HG23	1:B:143:VAL:HG22	1.56	0.87
1:L:138:THR:H	1:L:143:VAL:HG22	1.37	0.87
1:G:34:PHE:HZ	1:G:328:ARG:HH22	1.19	0.87
1:H:26:ARG:HG2	1:I:212:LEU:HD22	1.57	0.87
1:D:25:ALA:O	1:D:29:ALA:HB3	1.73	0.87
1:A:577:ILE:HG12	1:A:582:LYS:HG2	1.56	0.87
1:B:587:PRO:HD2	1:B:589:GLU:HG3	1.56	0.87
1:L:577:ILE:HG12	1:L:582:LYS:HG2	1.56	0.86
1:I:587:PRO:HD2	1:I:589:GLU:HG3	1.56	0.86
1:A:587:PRO:HD2	1:A:589:GLU:HG3	1.56	0.86
1:H:144:ILE:HG12	1:H:447:TYR:HE1	1.40	0.86
1:G:427:GLY:HA3	1:G:429:GLN:HE22	1.39	0.86
1:J:427:GLY:HA3	1:J:429:GLN:HE22	1.39	0.86
1:C:144:ILE:HG12	1:C:447:TYR:HE1	1.40	0.86
1:L:144:ILE:HG12	1:L:447:TYR:HE1	1.40	0.86
1:A:138:THR:H	1:A:143:VAL:HG22	1.37	0.86
1:G:25:ALA:O	1:G:29:ALA:HB3	1.73	0.86
1:B:25:ALA:O	1:B:29:ALA:HB3	1.74	0.86
1:D:427:GLY:HA3	1:D:429:GLN:HE22	1.39	0.86
1:H:34:PHE:HZ	1:H:328:ARG:HH22	1.19	0.86
1:C:587:PRO:HD2	1:C:589:GLU:HG3	1.56	0.86
1:G:144:ILE:HG12	1:G:447:TYR:HE1	1.40	0.86
1:H:427:GLY:HA3	1:H:429:GLN:HE22	1.39	0.86
1:F:27:ARG:CZ	1:G:211:TRP:HB3	2.05	0.86
1:I:138:THR:H	1:I:143:VAL:HG22	1.37	0.86
1:G:138:THR:H	1:G:143:VAL:HG22	1.37	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:427:GLY:HA3	1:A:429:GLN:HE22	1.39	0.86
1:A:322:LEU:HD11	1:B:58:ASP:OD2	1.75	0.86
1:A:72:ARG:CG	1:L:434:THR:HG21	2.05	0.86
1:H:82:PRO:HG2	1:I:560:LEU:HD22	1.55	0.86
1:D:138:THR:HG23	1:D:143:VAL:HG22	1.56	0.86
1:B:138:THR:H	1:B:143:VAL:HG22	1.37	0.86
1:B:577:ILE:HG12	1:B:582:LYS:HG2	1.56	0.86
1:A:138:THR:HG23	1:A:143:VAL:HG22	1.56	0.86
1:A:57:PHE:HD1	1:L:411:ALA:HB1	1.38	0.86
1:J:434:THR:HG21	1:K:72:ARG:HG2	1.57	0.86
1:B:82:PRO:HG2	1:C:560:LEU:HD22	1.57	0.86
1:E:138:THR:H	1:E:143:VAL:HG22	1.37	0.86
1:K:144:ILE:HG12	1:K:447:TYR:HE1	1.40	0.86
1:I:427:GLY:HA3	1:I:429:GLN:HE22	1.39	0.86
1:B:144:ILE:HG12	1:B:447:TYR:HE1	1.40	0.86
1:G:138:THR:HG23	1:G:143:VAL:HG22	1.56	0.86
1:F:398:PRO:HB3	1:G:395:PRO:HD2	1.58	0.86
1:D:144:ILE:HG12	1:D:447:TYR:HE1	1.40	0.86
1:H:577:ILE:HG12	1:H:582:LYS:HG2	1.56	0.86
1:H:138:THR:HG23	1:H:143:VAL:HG22	1.56	0.86
1:A:560:LEU:HD22	1:L:82:PRO:CG	2.03	0.86
1:K:138:THR:HG23	1:K:143:VAL:HG22	1.56	0.85
1:E:427:GLY:HA3	1:E:429:GLN:HE22	1.39	0.85
1:B:427:GLY:HA3	1:B:429:GLN:HE22	1.39	0.85
1:A:350:PHE:HA	1:B:372:TYR:O	1.75	0.85
1:A:34:PHE:HZ	1:A:328:ARG:HH22	1.19	0.85
1:C:138:THR:HG23	1:C:143:VAL:HG22	1.56	0.85
1:L:138:THR:HG23	1:L:143:VAL:HG22	1.56	0.85
1:G:577:ILE:HG12	1:G:582:LYS:HG2	1.55	0.85
1:K:587:PRO:HD2	1:K:589:GLU:HG3	1.56	0.85
1:K:34:PHE:HZ	1:K:328:ARG:HH22	1.19	0.85
1:J:587:PRO:HD2	1:J:589:GLU:HG3	1.56	0.85
1:H:138:THR:H	1:H:143:VAL:HG22	1.37	0.85
1:G:587:PRO:HD2	1:G:589:GLU:HG3	1.56	0.85
1:B:89:ASP:HA	1:C:561:ASP:HB2	1.57	0.85
1:D:587:PRO:HD2	1:D:589:GLU:HG3	1.56	0.85
1:K:138:THR:H	1:K:143:VAL:HG22	1.37	0.85
1:C:427:GLY:HA3	1:C:429:GLN:HE22	1.39	0.85
1:E:27:ARG:HG2	1:F:212:LEU:HD13	1.58	0.85
1:I:144:ILE:HG12	1:I:447:TYR:HE1	1.40	0.85
1:K:577:ILE:HG12	1:K:582:LYS:HG2	1.56	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:34:PHE:HZ	1:L:328:ARG:HH22	1.19	0.85
1:D:89:ASP:HA	1:E:561:ASP:HB2	1.59	0.85
1:A:560:LEU:CD1	1:L:82:PRO:HD2	2.00	0.85
1:A:561:ASP:CB	1:L:89:ASP:HA	2.07	0.84
1:E:144:ILE:HG12	1:E:447:TYR:HE1	1.40	0.84
1:J:144:ILE:HG12	1:J:447:TYR:HE1	1.40	0.84
1:F:587:PRO:HD2	1:F:589:GLU:HG3	1.56	0.84
1:G:413:LYS:HA	1:G:416:ALA:HB3	1.60	0.84
1:I:14:ARG:HA	1:I:14:ARG:NE	1.93	0.84
1:J:14:ARG:HA	1:J:14:ARG:NE	1.93	0.84
1:G:41:TRP:CE3	1:G:42:ASP:O	2.31	0.84
1:J:41:TRP:CE3	1:J:42:ASP:O	2.31	0.84
1:K:41:TRP:CE3	1:K:42:ASP:O	2.31	0.84
1:C:26:ARG:HG2	1:D:212:LEU:HD22	1.57	0.84
1:A:144:ILE:HG12	1:A:447:TYR:HE1	1.40	0.84
1:L:99:ARG:NH1	1:L:524:PHE:HB2	1.93	0.84
1:K:413:LYS:HA	1:K:416:ALA:HB3	1.60	0.84
1:D:41:TRP:CE3	1:D:42:ASP:O	2.31	0.84
1:I:41:TRP:CE3	1:I:42:ASP:O	2.31	0.84
1:K:99:ARG:NH1	1:K:524:PHE:HB2	1.93	0.84
1:F:427:GLY:HA3	1:F:429:GLN:HE22	1.39	0.84
1:A:99:ARG:NH1	1:A:524:PHE:HB2	1.93	0.84
1:A:41:TRP:CE3	1:A:42:ASP:O	2.31	0.83
1:E:41:TRP:CE3	1:E:42:ASP:O	2.31	0.83
1:A:66:LYS:HZ3	1:A:420:VAL:HG21	1.42	0.83
1:J:99:ARG:NH1	1:J:524:PHE:HB2	1.93	0.83
1:F:27:ARG:HG2	1:G:212:LEU:HD13	1.59	0.83
1:F:413:LYS:HA	1:F:416:ALA:HB3	1.60	0.83
1:D:413:LYS:HA	1:D:416:ALA:HB3	1.60	0.83
1:G:99:ARG:NH1	1:G:524:PHE:HB2	1.93	0.83
1:F:41:TRP:CE3	1:F:42:ASP:O	2.31	0.83
1:J:413:LYS:HA	1:J:416:ALA:HB3	1.60	0.83
1:A:27:ARG:CZ	1:B:211:TRP:HB3	2.09	0.83
1:B:99:ARG:NH1	1:B:524:PHE:HB2	1.93	0.83
1:I:99:ARG:NH1	1:I:524:PHE:HB2	1.93	0.83
1:F:14:ARG:NE	1:F:14:ARG:HA	1.93	0.83
1:F:99:ARG:NH1	1:F:524:PHE:HB2	1.93	0.83
1:D:411:ALA:CB	1:E:57:PHE:CD1	2.61	0.83
1:B:41:TRP:CE3	1:B:42:ASP:O	2.31	0.83
1:F:144:ILE:HG12	1:F:447:TYR:HE1	1.40	0.83
1:D:99:ARG:NH1	1:D:524:PHE:HB2	1.93	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:26:ARG:HG2	1:E:212:LEU:HD22	1.59	0.83
1:C:82:PRO:HD2	1:D:560:LEU:HD13	1.61	0.83
1:A:27:ARG:HG2	1:B:212:LEU:HD13	1.61	0.83
1:E:413:LYS:HA	1:E:416:ALA:HB3	1.60	0.83
1:L:41:TRP:CE3	1:L:42:ASP:O	2.31	0.82
1:H:41:TRP:CE3	1:H:42:ASP:O	2.31	0.82
1:H:99:ARG:NH1	1:H:524:PHE:HB2	1.93	0.82
1:C:41:TRP:CE3	1:C:42:ASP:O	2.31	0.82
1:D:348:LYS:HB2	1:E:372:TYR:CE2	2.13	0.82
1:E:82:PRO:HG2	1:F:560:LEU:HD22	1.61	0.82
1:C:99:ARG:NH1	1:C:524:PHE:HB2	1.93	0.82
1:B:413:LYS:HA	1:B:416:ALA:HB3	1.60	0.82
1:E:99:ARG:NH1	1:E:524:PHE:HB2	1.93	0.82
1:F:434:THR:HG21	1:G:72:ARG:HG2	1.62	0.82
1:D:415:VAL:HA	1:E:62:PRO:HG3	1.62	0.82
1:B:235:TYR:HA	1:B:265:LYS:HB3	1.62	0.82
1:H:413:LYS:HA	1:H:416:ALA:HB3	1.60	0.82
1:A:235:TYR:HA	1:A:265:LYS:HB3	1.62	0.82
1:C:14:ARG:NE	1:C:14:ARG:HA	1.93	0.82
1:L:413:LYS:HA	1:L:416:ALA:HB3	1.60	0.82
1:A:413:LYS:HA	1:A:416:ALA:HB3	1.60	0.82
1:H:235:TYR:HA	1:H:265:LYS:HB3	1.62	0.81
1:I:235:TYR:HA	1:I:265:LYS:HB3	1.62	0.81
1:D:14:ARG:NE	1:D:14:ARG:HA	1.93	0.81
1:G:34:PHE:HE2	1:G:45:LEU:HG	1.45	0.81
1:E:235:TYR:HA	1:E:265:LYS:HB3	1.62	0.81
1:B:34:PHE:HE2	1:B:45:LEU:HG	1.45	0.81
1:I:413:LYS:HA	1:I:416:ALA:HB3	1.60	0.81
1:A:82:PRO:HG2	1:B:560:LEU:HD22	1.63	0.81
1:L:235:TYR:HA	1:L:265:LYS:HB3	1.62	0.81
1:H:34:PHE:HE2	1:H:45:LEU:HG	1.45	0.81
1:L:66:LYS:HZ3	1:L:420:VAL:HG21	1.44	0.81
1:K:322:LEU:CD1	1:L:58:ASP:OD2	2.27	0.81
1:K:14:ARG:NE	1:K:14:ARG:HA	1.93	0.81
1:I:34:PHE:HE2	1:I:45:LEU:HG	1.45	0.81
1:J:235:TYR:HA	1:J:265:LYS:HB3	1.62	0.81
1:A:56:GLN:HE21	1:A:58:ASP:HB2	1.46	0.81
1:G:89:ASP:CA	1:H:561:ASP:HB2	2.11	0.81
1:G:14:ARG:NE	1:G:14:ARG:HA	1.93	0.81
1:B:56:GLN:HE21	1:B:58:ASP:HB2	1.46	0.81
1:C:413:LYS:HA	1:C:416:ALA:HB3	1.60	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:89:ASP:HA	1:J:561:ASP:CB	2.10	0.81
1:A:89:ASP:HA	1:B:561:ASP:HB2	1.61	0.81
1:L:14:ARG:HA	1:L:14:ARG:NE	1.93	0.81
1:I:56:GLN:HE21	1:I:58:ASP:HB2	1.46	0.80
1:H:554:LEU:HD21	1:I:564:GLY:HA2	1.63	0.80
1:C:235:TYR:HA	1:C:265:LYS:HB3	1.62	0.80
1:G:235:TYR:HA	1:G:265:LYS:HB3	1.62	0.80
1:L:34:PHE:HE2	1:L:45:LEU:HG	1.45	0.80
1:C:34:PHE:HE2	1:C:45:LEU:HG	1.45	0.80
1:D:236:GLN:CB	1:D:265:LYS:HZ3	1.94	0.80
1:F:235:TYR:HA	1:F:265:LYS:HB3	1.62	0.80
1:E:34:PHE:O	1:E:37:ARG:HB2	1.82	0.80
1:E:34:PHE:HE2	1:E:45:LEU:HG	1.45	0.80
1:F:49:THR:O	1:F:49:THR:HG22	1.82	0.80
1:A:34:PHE:O	1:A:37:ARG:HB2	1.82	0.80
1:K:34:PHE:O	1:K:37:ARG:HB2	1.82	0.80
1:A:212:LEU:HD22	1:L:26:ARG:HG2	1.64	0.80
1:L:49:THR:HG22	1:L:49:THR:O	1.82	0.80
1:D:325:ASP:OD2	1:E:56:GLN:HB2	1.80	0.80
1:D:56:GLN:HE21	1:D:58:ASP:HB2	1.46	0.80
1:E:14:ARG:NE	1:E:14:ARG:HA	1.93	0.80
1:G:34:PHE:O	1:G:37:ARG:HB2	1.82	0.80
1:C:34:PHE:O	1:C:37:ARG:HB2	1.82	0.80
1:E:89:ASP:HA	1:F:561:ASP:HB2	1.64	0.80
1:B:34:PHE:O	1:B:37:ARG:HB2	1.82	0.80
1:I:34:PHE:O	1:I:37:ARG:HB2	1.82	0.80
1:C:56:GLN:HE21	1:C:58:ASP:HB2	1.46	0.80
1:E:49:THR:HG22	1:E:49:THR:O	1.82	0.80
1:H:49:THR:O	1:H:49:THR:HG22	1.82	0.80
1:E:56:GLN:HE21	1:E:58:ASP:HB2	1.46	0.79
1:B:158:TRP:HB3	1:B:173:CYS:HA	1.65	0.79
1:H:14:ARG:HA	1:H:14:ARG:NE	1.93	0.79
1:J:34:PHE:O	1:J:37:ARG:HB2	1.82	0.79
1:C:158:TRP:HB3	1:C:173:CYS:HA	1.65	0.79
1:I:325:ASP:OD2	1:J:56:GLN:HB2	1.81	0.79
1:J:56:GLN:HE21	1:J:58:ASP:HB2	1.46	0.79
1:F:322:LEU:HD11	1:G:58:ASP:OD2	1.83	0.79
1:J:49:THR:HG22	1:J:49:THR:O	1.82	0.79
1:A:400:ALA:CB	1:B:395:PRO:HB2	2.12	0.79
1:A:37:ARG:HB3	1:A:37:ARG:NH2	1.98	0.79
1:K:34:PHE:HE2	1:K:45:LEU:HG	1.45	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:37:ARG:NH2	1:J:37:ARG:HB3	1.98	0.79
1:D:34:PHE:HE2	1:D:45:LEU:HG	1.45	0.79
1:I:37:ARG:NH2	1:I:37:ARG:HB3	1.98	0.79
1:A:34:PHE:HE2	1:A:45:LEU:HG	1.45	0.79
1:G:49:THR:HG22	1:G:49:THR:O	1.82	0.79
1:B:14:ARG:HA	1:B:14:ARG:NE	1.93	0.79
1:D:235:TYR:HA	1:D:265:LYS:HB3	1.62	0.79
1:A:14:ARG:HA	1:A:14:ARG:NE	1.93	0.79
1:L:34:PHE:O	1:L:37:ARG:HB2	1.82	0.79
1:F:158:TRP:HB3	1:F:173:CYS:HA	1.64	0.79
1:D:92:ASP:HB3	1:E:561:ASP:OD2	1.82	0.79
1:J:34:PHE:HE2	1:J:45:LEU:HG	1.45	0.79
1:L:37:ARG:HB3	1:L:37:ARG:NH2	1.98	0.79
1:C:66:LYS:HZ3	1:C:420:VAL:HG21	1.48	0.79
1:L:56:GLN:HE21	1:L:58:ASP:HB2	1.46	0.79
1:G:37:ARG:NH2	1:G:37:ARG:HB3	1.98	0.79
1:B:49:THR:O	1:B:49:THR:HG22	1.82	0.79
1:H:158:TRP:HB3	1:H:173:CYS:HA	1.65	0.79
1:D:34:PHE:O	1:D:37:ARG:HB2	1.82	0.79
1:K:158:TRP:HB3	1:K:173:CYS:HA	1.65	0.79
1:G:506:VAL:HG12	1:G:507:LEU:HG	1.65	0.79
1:J:158:TRP:HB3	1:J:173:CYS:HA	1.65	0.79
1:H:411:ALA:HB1	1:I:57:PHE:HD1	1.48	0.78
1:I:506:VAL:HG12	1:I:507:LEU:HG	1.65	0.78
1:A:158:TRP:HB3	1:A:173:CYS:HA	1.65	0.78
1:K:56:GLN:HE21	1:K:58:ASP:HB2	1.46	0.78
1:K:235:TYR:HA	1:K:265:LYS:HB3	1.62	0.78
1:D:45:LEU:HD21	1:D:328:ARG:HH21	1.49	0.78
1:K:27:ARG:HG2	1:L:212:LEU:HD13	1.65	0.78
1:I:49:THR:O	1:I:49:THR:HG22	1.82	0.78
1:H:56:GLN:HE21	1:H:58:ASP:HB2	1.46	0.78
1:F:56:GLN:HE21	1:F:58:ASP:HB2	1.46	0.78
1:H:34:PHE:O	1:H:37:ARG:HB2	1.82	0.78
1:I:434:THR:HG21	1:J:72:ARG:HG2	1.64	0.78
1:B:37:ARG:HB3	1:B:37:ARG:NH2	1.98	0.78
1:H:37:ARG:NH2	1:H:37:ARG:HB3	1.98	0.78
1:K:45:LEU:HD21	1:K:328:ARG:HH21	1.49	0.78
1:E:379:GLU:O	1:E:380:ASN:HB2	1.84	0.78
1:B:506:VAL:HG12	1:B:507:LEU:HG	1.65	0.78
1:G:434:THR:HG21	1:H:72:ARG:HG2	1.65	0.78
1:D:158:TRP:HB3	1:D:173:CYS:HA	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:34:PHE:O	1:F:37:ARG:HB2	1.82	0.78
1:D:49:THR:O	1:D:49:THR:HG22	1.82	0.78
1:L:158:TRP:HB3	1:L:173:CYS:HA	1.65	0.78
1:G:56:GLN:HE21	1:G:58:ASP:HB2	1.46	0.78
1:H:236:GLN:CB	1:H:265:LYS:HZ3	1.97	0.78
1:D:37:ARG:HB3	1:D:37:ARG:NH2	1.98	0.78
1:C:37:ARG:NH2	1:C:37:ARG:HB3	1.98	0.78
1:C:49:THR:O	1:C:49:THR:HG22	1.82	0.78
1:A:49:THR:HG22	1:A:49:THR:O	1.82	0.78
1:J:506:VAL:HG12	1:J:507:LEU:HG	1.65	0.78
1:H:379:GLU:O	1:H:380:ASN:HB2	1.84	0.78
1:F:34:PHE:HE2	1:F:45:LEU:HG	1.45	0.78
1:E:37:ARG:NH2	1:E:37:ARG:HB3	1.98	0.78
1:J:427:GLY:HA3	1:J:429:GLN:NE2	1.99	0.78
1:K:49:THR:O	1:K:49:THR:HG22	1.82	0.78
1:F:56:GLN:NE2	1:F:58:ASP:HB2	1.99	0.78
1:H:45:LEU:HD21	1:H:328:ARG:HH21	1.49	0.78
1:E:158:TRP:HB3	1:E:173:CYS:HA	1.65	0.78
1:H:56:GLN:NE2	1:H:58:ASP:HB2	1.99	0.77
1:A:561:ASP:HB2	1:L:89:ASP:CA	2.12	0.77
1:D:379:GLU:O	1:D:380:ASN:HB2	1.84	0.77
1:G:158:TRP:HB3	1:G:173:CYS:HA	1.65	0.77
1:C:56:GLN:NE2	1:C:58:ASP:HB2	1.99	0.77
1:D:352:TRP:CE2	1:E:385:PRO:HG2	2.20	0.77
1:D:554:LEU:HD22	1:E:567:MET:HE2	1.67	0.77
1:I:26:ARG:HG2	1:J:212:LEU:HD22	1.66	0.77
1:G:427:GLY:HA3	1:G:429:GLN:NE2	1.99	0.77
1:C:427:GLY:HA3	1:C:429:GLN:NE2	1.99	0.77
1:F:427:GLY:HA3	1:F:429:GLN:NE2	1.99	0.77
1:K:352:TRP:HD1	1:L:374:LEU:O	1.67	0.77
1:K:506:VAL:HG12	1:K:507:LEU:HG	1.65	0.77
1:E:45:LEU:HD21	1:E:328:ARG:HH21	1.49	0.77
1:A:57:PHE:CD1	1:L:411:ALA:HB1	2.20	0.77
1:E:506:VAL:HG12	1:E:507:LEU:HG	1.65	0.77
1:I:158:TRP:HB3	1:I:173:CYS:HA	1.65	0.77
1:L:379:GLU:O	1:L:380:ASN:HB2	1.84	0.77
1:A:56:GLN:CB	1:L:325:ASP:OD2	2.32	0.77
1:C:45:LEU:HD21	1:C:328:ARG:HH21	1.49	0.77
1:E:427:GLY:HA3	1:E:429:GLN:NE2	1.99	0.77
1:B:379:GLU:O	1:B:380:ASN:HB2	1.84	0.77
1:L:506:VAL:HG12	1:L:507:LEU:HG	1.65	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:506:VAL:HG12	1:A:507:LEU:HG	1.65	0.77
1:K:379:GLU:O	1:K:380:ASN:HB2	1.84	0.77
1:K:56:GLN:NE2	1:K:58:ASP:HB2	1.99	0.77
1:E:56:GLN:NE2	1:E:58:ASP:HB2	1.99	0.77
1:L:227:GLU:HA	1:L:274:ARG:HA	1.67	0.77
1:F:506:VAL:HG12	1:F:507:LEU:HG	1.65	0.77
1:K:227:GLU:HA	1:K:274:ARG:HA	1.67	0.77
1:B:45:LEU:HD21	1:B:328:ARG:HH21	1.49	0.77
1:A:56:GLN:NE2	1:A:58:ASP:HB2	1.99	0.77
1:J:322:LEU:HD11	1:K:58:ASP:OD2	1.79	0.77
1:B:56:GLN:NE2	1:B:58:ASP:HB2	1.99	0.77
1:K:37:ARG:HB3	1:K:37:ARG:NH2	1.98	0.77
1:A:209:PHE:N	1:A:210:PRO:HD3	2.00	0.77
1:H:427:GLY:HA3	1:H:429:GLN:NE2	1.99	0.77
1:A:348:LYS:HB3	1:B:371:TYR:HA	1.67	0.77
1:G:56:GLN:NE2	1:G:58:ASP:HB2	1.99	0.77
1:D:348:LYS:HB2	1:E:372:TYR:CD2	2.19	0.77
1:C:227:GLU:HA	1:C:274:ARG:HA	1.67	0.77
1:F:577:ILE:HA	1:F:582:LYS:HB3	1.67	0.77
1:A:427:GLY:HA3	1:A:429:GLN:NE2	1.99	0.77
1:H:506:VAL:HG12	1:H:507:LEU:HG	1.65	0.77
1:F:379:GLU:O	1:F:380:ASN:HB2	1.84	0.77
1:G:45:LEU:HD21	1:G:328:ARG:HH21	1.49	0.77
1:F:37:ARG:NH2	1:F:37:ARG:HB3	1.98	0.77
1:A:45:LEU:HD21	1:A:328:ARG:HH21	1.49	0.77
1:G:66:LYS:HZ3	1:G:420:VAL:HG21	1.49	0.77
1:H:227:GLU:HA	1:H:274:ARG:HA	1.67	0.76
1:H:209:PHE:N	1:H:210:PRO:HD3	2.00	0.76
1:K:427:GLY:HA3	1:K:429:GLN:NE2	1.99	0.76
1:G:379:GLU:O	1:G:380:ASN:HB2	1.84	0.76
1:G:227:GLU:HA	1:G:274:ARG:HA	1.67	0.76
1:I:379:GLU:O	1:I:380:ASN:HB2	1.84	0.76
1:D:506:VAL:HG12	1:D:507:LEU:HG	1.65	0.76
1:I:56:GLN:NE2	1:I:58:ASP:HB2	1.99	0.76
1:L:56:GLN:NE2	1:L:58:ASP:HB2	1.99	0.76
1:D:227:GLU:HA	1:D:274:ARG:HA	1.67	0.76
1:E:227:GLU:HA	1:E:274:ARG:HA	1.67	0.76
1:A:577:ILE:HA	1:A:582:LYS:HB3	1.67	0.76
1:I:427:GLY:HA3	1:I:429:GLN:NE2	1.99	0.76
1:B:427:GLY:HA3	1:B:429:GLN:NE2	1.99	0.76
1:J:56:GLN:NE2	1:J:58:ASP:HB2	1.99	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:209:PHE:N	1:K:210:PRO:HD3	2.00	0.76
1:A:227:GLU:HA	1:A:274:ARG:HA	1.67	0.76
1:B:577:ILE:HA	1:B:582:LYS:HB3	1.67	0.76
1:J:379:GLU:O	1:J:380:ASN:HB2	1.84	0.76
1:C:506:VAL:HG12	1:C:507:LEU:HG	1.65	0.76
1:I:66:LYS:HZ3	1:I:420:VAL:HG21	1.50	0.76
1:B:209:PHE:N	1:B:210:PRO:HD3	2.00	0.76
1:H:89:ASP:HA	1:I:561:ASP:CB	2.14	0.76
1:F:45:LEU:HD21	1:F:328:ARG:HH21	1.49	0.76
1:F:209:PHE:N	1:F:210:PRO:HD3	2.00	0.76
1:A:434:THR:HG21	1:B:72:ARG:HG2	1.68	0.76
1:K:398:PRO:HB3	1:L:395:PRO:HD2	1.66	0.76
1:I:92:ASP:HB3	1:J:561:ASP:OD2	1.85	0.76
1:D:554:LEU:HD21	1:E:564:GLY:HA2	1.66	0.76
1:J:209:PHE:N	1:J:210:PRO:HD3	2.00	0.76
1:D:209:PHE:N	1:D:210:PRO:HD3	2.00	0.76
1:L:427:GLY:HA3	1:L:429:GLN:NE2	1.99	0.76
1:K:401:ASN:OD1	1:L:341:VAL:HG13	1.86	0.76
1:L:45:LEU:HD21	1:L:328:ARG:HH21	1.49	0.76
1:C:577:ILE:HA	1:C:582:LYS:HB3	1.67	0.76
1:J:66:LYS:HZ1	1:J:420:VAL:HG11	1.50	0.76
1:I:45:LEU:HD21	1:I:328:ARG:HH21	1.49	0.76
1:H:577:ILE:HA	1:H:582:LYS:HB3	1.68	0.76
1:I:227:GLU:HA	1:I:274:ARG:HA	1.67	0.76
1:I:209:PHE:N	1:I:210:PRO:HD3	2.00	0.76
1:G:577:ILE:HA	1:G:582:LYS:HB3	1.67	0.76
1:D:427:GLY:HA3	1:D:429:GLN:NE2	1.99	0.76
1:I:528:LYS:HD2	1:I:560:LEU:HD21	1.68	0.75
1:L:528:LYS:HD2	1:L:560:LEU:HD21	1.68	0.75
1:B:554:LEU:HD21	1:C:564:GLY:HA2	1.67	0.75
1:D:438:LEU:HD11	1:E:108:LYS:HD2	1.67	0.75
1:A:379:GLU:O	1:A:380:ASN:HB2	1.84	0.75
1:A:58:ASP:OD2	1:L:322:LEU:HD11	1.83	0.75
1:G:209:PHE:N	1:G:210:PRO:HD3	2.00	0.75
1:E:209:PHE:N	1:E:210:PRO:HD3	2.00	0.75
1:L:209:PHE:N	1:L:210:PRO:HD3	2.00	0.75
1:G:554:LEU:HD21	1:H:564:GLY:HA2	1.67	0.75
1:K:528:LYS:HD2	1:K:560:LEU:HD21	1.68	0.75
1:F:227:GLU:HA	1:F:274:ARG:HA	1.67	0.75
1:E:577:ILE:HA	1:E:582:LYS:HB3	1.67	0.75
1:J:45:LEU:HD21	1:J:328:ARG:HH21	1.49	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:577:ILE:HA	1:J:582:LYS:HB3	1.67	0.75
1:D:56:GLN:NE2	1:D:58:ASP:HB2	1.99	0.75
1:J:227:GLU:HA	1:J:274:ARG:HA	1.67	0.75
1:J:162:SER:HB2	1:J:170:ALA:HB2	1.69	0.75
1:G:398:PRO:HB3	1:H:395:PRO:HD2	1.68	0.75
1:B:227:GLU:HA	1:B:274:ARG:HA	1.67	0.75
1:C:27:ARG:CZ	1:D:211:TRP:HB3	2.16	0.75
1:C:209:PHE:N	1:C:210:PRO:HD3	2.00	0.75
1:K:577:ILE:HA	1:K:582:LYS:HB3	1.67	0.75
1:C:379:GLU:O	1:C:380:ASN:HB2	1.84	0.75
1:G:162:SER:HB2	1:G:170:ALA:HB2	1.69	0.75
1:H:528:LYS:HD2	1:H:560:LEU:HD21	1.68	0.74
1:G:528:LYS:HD2	1:G:560:LEU:HD21	1.68	0.74
1:B:528:LYS:HD2	1:B:560:LEU:HD21	1.68	0.74
1:I:248:LYS:HZ2	1:I:251:ILE:HD12	1.51	0.74
1:L:577:ILE:HA	1:L:582:LYS:HB3	1.67	0.74
1:K:390:ALA:CB	1:L:387:GLN:HB2	2.17	0.74
1:D:434:THR:OG1	1:E:108:LYS:NZ	2.20	0.74
1:D:398:PRO:HB3	1:E:395:PRO:HD2	1.69	0.74
1:E:528:LYS:HD2	1:E:560:LEU:HD21	1.68	0.74
1:K:236:GLN:CB	1:K:265:LYS:HZ3	1.98	0.74
1:I:577:ILE:HA	1:I:582:LYS:HB3	1.67	0.74
1:D:528:LYS:HD2	1:D:560:LEU:HD21	1.68	0.74
1:K:248:LYS:HZ2	1:K:251:ILE:HD12	1.52	0.74
1:C:89:ASP:HA	1:D:561:ASP:HB2	1.67	0.74
1:A:352:TRP:HD1	1:B:374:LEU:O	1.69	0.74
1:G:322:LEU:HD11	1:H:58:ASP:OD2	1.85	0.74
1:G:158:TRP:CH2	1:G:302:PRO:HG3	2.23	0.74
1:H:158:TRP:CH2	1:H:302:PRO:HG3	2.23	0.74
1:K:158:TRP:CH2	1:K:302:PRO:HG3	2.23	0.74
1:I:89:ASP:CA	1:J:561:ASP:HB2	2.17	0.74
1:D:352:TRP:HD1	1:E:374:LEU:O	1.69	0.74
1:D:577:ILE:HA	1:D:582:LYS:HB3	1.67	0.74
1:B:158:TRP:CH2	1:B:302:PRO:HG3	2.23	0.74
1:I:162:SER:HB2	1:I:170:ALA:HB2	1.68	0.74
1:E:27:ARG:CZ	1:F:211:TRP:HB3	2.17	0.74
1:F:162:SER:HB2	1:F:170:ALA:HB2	1.69	0.74
1:A:150:HIS:ND1	1:L:309:PHE:HB2	2.02	0.74
1:A:528:LYS:HD2	1:A:560:LEU:HD21	1.68	0.74
1:F:158:TRP:CH2	1:F:302:PRO:HG3	2.23	0.74
1:D:158:TRP:CH2	1:D:302:PRO:HG3	2.23	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:162:SER:HB2	1:H:170:ALA:HB2	1.69	0.74
1:K:162:SER:HB2	1:K:170:ALA:HB2	1.69	0.74
1:H:66:LYS:HZ3	1:H:420:VAL:HG21	1.52	0.74
1:H:158:TRP:CD1	1:H:158:TRP:N	2.56	0.73
1:J:158:TRP:CH2	1:J:302:PRO:HG3	2.23	0.73
1:E:158:TRP:CH2	1:E:302:PRO:HG3	2.23	0.73
1:E:162:SER:HB2	1:E:170:ALA:HB2	1.69	0.73
1:J:528:LYS:HD2	1:J:560:LEU:HD21	1.68	0.73
1:F:89:ASP:HA	1:G:561:ASP:CB	2.18	0.73
1:J:40:GLN:O	1:J:41:TRP:HB2	1.88	0.73
1:A:158:TRP:CH2	1:A:302:PRO:HG3	2.23	0.73
1:H:325:ASP:OD2	1:I:56:GLN:HB2	1.88	0.73
1:C:40:GLN:O	1:C:41:TRP:HB2	1.88	0.73
1:F:66:LYS:HZ3	1:F:420:VAL:HG11	1.53	0.73
1:B:158:TRP:N	1:B:158:TRP:CD1	2.56	0.73
1:A:162:SER:HB2	1:A:170:ALA:HB2	1.69	0.73
1:K:66:LYS:HZ3	1:K:420:VAL:HG21	1.53	0.73
1:C:528:LYS:HD2	1:C:560:LEU:HD21	1.68	0.73
1:E:40:GLN:O	1:E:41:TRP:HB2	1.88	0.73
1:A:350:PHE:HE1	1:B:363:TYR:HE1	1.37	0.73
1:J:158:TRP:N	1:J:158:TRP:CD1	2.56	0.73
1:A:158:TRP:CD1	1:A:158:TRP:N	2.56	0.73
1:I:158:TRP:CH2	1:I:302:PRO:HG3	2.23	0.73
1:L:162:SER:HB2	1:L:170:ALA:HB2	1.68	0.73
1:J:236:GLN:CB	1:J:265:LYS:HZ3	2.02	0.73
1:L:40:GLN:O	1:L:41:TRP:HB2	1.88	0.73
1:D:162:SER:HB2	1:D:170:ALA:HB2	1.69	0.73
1:E:66:LYS:HZ3	1:E:420:VAL:HG21	1.52	0.73
1:C:236:GLN:CB	1:C:265:LYS:HZ3	2.02	0.73
1:I:40:GLN:O	1:I:41:TRP:HB2	1.88	0.73
1:F:400:ALA:CB	1:G:395:PRO:HB2	2.19	0.73
1:F:99:ARG:O	1:F:103:ARG:HG3	1.89	0.73
1:F:158:TRP:N	1:F:158:TRP:CD1	2.56	0.73
1:D:99:ARG:O	1:D:103:ARG:HG3	1.89	0.73
1:C:158:TRP:CH2	1:C:302:PRO:HG3	2.23	0.73
1:L:158:TRP:CH2	1:L:302:PRO:HG3	2.23	0.73
1:H:27:ARG:HG2	1:I:212:LEU:HD13	1.71	0.73
1:B:40:GLN:O	1:B:41:TRP:HB2	1.88	0.72
1:L:158:TRP:CD1	1:L:158:TRP:N	2.56	0.72
1:F:528:LYS:HD2	1:F:560:LEU:HD21	1.68	0.72
1:G:99:ARG:O	1:G:103:ARG:HG3	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:162:SER:HB2	1:B:170:ALA:HB2	1.69	0.72
1:G:27:ARG:HG2	1:H:212:LEU:HD13	1.70	0.72
1:F:40:GLN:O	1:F:41:TRP:HB2	1.88	0.72
1:C:162:SER:HB2	1:C:170:ALA:HB2	1.69	0.72
1:G:236:GLN:CB	1:G:265:LYS:HZ3	2.01	0.72
1:A:15:PHE:HZ	1:A:283:CYS:HG	1.35	0.72
1:D:40:GLN:O	1:D:41:TRP:HB2	1.88	0.72
1:H:434:THR:HG21	1:I:72:ARG:HG2	1.72	0.72
1:F:35:PHE:C	1:F:37:ARG:H	1.93	0.72
1:A:35:PHE:C	1:A:37:ARG:H	1.93	0.72
1:J:99:ARG:O	1:J:103:ARG:HG3	1.89	0.72
1:G:158:TRP:CD1	1:G:158:TRP:N	2.56	0.72
1:D:411:ALA:HB2	1:E:57:PHE:CD1	2.23	0.72
1:J:248:LYS:HG3	1:J:511:ARG:HH11	1.55	0.72
1:G:40:GLN:O	1:G:41:TRP:HB2	1.88	0.72
1:J:35:PHE:C	1:J:37:ARG:H	1.93	0.72
1:A:40:GLN:O	1:A:41:TRP:HB2	1.88	0.72
1:L:99:ARG:O	1:L:103:ARG:HG3	1.89	0.72
1:H:99:ARG:O	1:H:103:ARG:HG3	1.89	0.72
1:E:99:ARG:O	1:E:103:ARG:HG3	1.89	0.72
1:H:152:ALA:O	1:H:156:VAL:HG22	1.90	0.72
1:G:199:PRO:HB3	1:G:282:THR:HG22	1.72	0.72
1:L:35:PHE:C	1:L:37:ARG:H	1.93	0.72
1:E:199:PRO:HB3	1:E:282:THR:HG22	1.72	0.72
1:D:66:LYS:HZ3	1:D:420:VAL:HG21	1.54	0.72
1:J:89:ASP:HA	1:K:561:ASP:CB	2.19	0.72
1:B:248:LYS:HG3	1:B:511:ARG:HH11	1.55	0.72
1:H:40:GLN:O	1:H:41:TRP:HB2	1.88	0.72
1:A:99:ARG:O	1:A:103:ARG:HG3	1.89	0.72
1:I:99:ARG:O	1:I:103:ARG:HG3	1.89	0.72
1:A:152:ALA:O	1:A:156:VAL:HG22	1.90	0.72
1:A:199:PRO:HB3	1:A:282:THR:HG22	1.72	0.72
1:J:152:ALA:O	1:J:156:VAL:HG22	1.90	0.72
1:H:248:LYS:HG3	1:H:511:ARG:HH11	1.55	0.71
1:E:152:ALA:O	1:E:156:VAL:HG22	1.90	0.71
1:I:236:GLN:HB2	1:I:265:LYS:NZ	2.06	0.71
1:B:236:GLN:HB2	1:B:265:LYS:NZ	2.05	0.71
1:K:158:TRP:N	1:K:158:TRP:CD1	2.56	0.71
1:A:89:ASP:HA	1:B:561:ASP:CB	2.21	0.71
1:E:248:LYS:HG3	1:E:511:ARG:HH11	1.55	0.71
1:B:35:PHE:C	1:B:37:ARG:H	1.93	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:199:PRO:HB3	1:H:282:THR:HG22	1.72	0.71
1:F:352:TRP:HD1	1:G:374:LEU:O	1.74	0.71
1:A:560:LEU:CD2	1:L:82:PRO:HG2	2.07	0.71
1:A:567:MET:HE2	1:L:554:LEU:HD22	1.72	0.71
1:E:248:LYS:HZ2	1:E:251:ILE:HD12	1.55	0.71
1:A:248:LYS:HG3	1:A:511:ARG:HH11	1.55	0.71
1:L:152:ALA:O	1:L:156:VAL:HG22	1.90	0.71
1:C:99:ARG:O	1:C:103:ARG:HG3	1.89	0.71
1:K:152:ALA:O	1:K:156:VAL:HG22	1.90	0.71
1:J:199:PRO:HB3	1:J:282:THR:HG22	1.72	0.71
1:B:66:LYS:HZ3	1:B:420:VAL:HG11	1.55	0.71
1:B:325:ASP:OD2	1:C:56:GLN:HB2	1.91	0.71
1:J:236:GLN:HB2	1:J:265:LYS:NZ	2.06	0.71
1:C:236:GLN:HB2	1:C:265:LYS:NZ	2.06	0.71
1:A:236:GLN:HB2	1:A:265:LYS:NZ	2.05	0.71
1:C:248:LYS:HG3	1:C:511:ARG:HH11	1.55	0.71
1:K:40:GLN:O	1:K:41:TRP:HB2	1.88	0.71
1:K:99:ARG:O	1:K:103:ARG:HG3	1.89	0.71
1:B:99:ARG:O	1:B:103:ARG:HG3	1.89	0.71
1:L:199:PRO:HB3	1:L:282:THR:HG22	1.72	0.71
1:I:236:GLN:CB	1:I:265:LYS:HZ3	2.02	0.71
1:D:236:GLN:HB2	1:D:265:LYS:NZ	2.06	0.71
1:B:152:ALA:O	1:B:156:VAL:HG22	1.90	0.71
1:F:199:PRO:HB3	1:F:282:THR:HG22	1.72	0.71
1:I:152:ALA:O	1:I:156:VAL:HG22	1.90	0.71
1:C:152:ALA:O	1:C:156:VAL:HG22	1.90	0.71
1:D:152:ALA:O	1:D:156:VAL:HG22	1.90	0.71
1:G:376:ARG:O	1:G:383:ASP:HB3	1.91	0.71
1:K:376:ARG:O	1:K:383:ASP:HB3	1.91	0.71
1:E:398:PRO:HB3	1:F:395:PRO:HD2	1.71	0.71
1:F:248:LYS:HG3	1:F:511:ARG:HH11	1.55	0.71
1:C:158:TRP:CD1	1:C:158:TRP:N	2.56	0.71
1:E:158:TRP:N	1:E:158:TRP:CD1	2.56	0.71
1:J:458:ARG:HG3	1:J:459:ARG:H	1.56	0.71
1:K:78:VAL:HG12	1:K:79:LEU:N	2.06	0.71
1:F:236:GLN:HB2	1:F:265:LYS:NZ	2.05	0.71
1:H:376:ARG:O	1:H:383:ASP:HB3	1.91	0.71
1:J:27:ARG:CZ	1:K:211:TRP:HB3	2.21	0.70
1:H:398:PRO:HB3	1:I:395:PRO:HD2	1.72	0.70
1:K:458:ARG:HG3	1:K:459:ARG:H	1.56	0.70
1:D:78:VAL:HG12	1:D:79:LEU:N	2.06	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:78:VAL:HG12	1:C:79:LEU:N	2.06	0.70
1:D:248:LYS:HG3	1:D:511:ARG:HH11	1.55	0.70
1:F:400:ALA:HB3	1:G:395:PRO:HB2	1.72	0.70
1:F:152:ALA:O	1:F:156:VAL:HG22	1.90	0.70
1:C:199:PRO:HB3	1:C:282:THR:HG22	1.72	0.70
1:B:77:ASP:CB	1:B:523:SER:HA	2.21	0.70
1:J:78:VAL:HG12	1:J:79:LEU:N	2.06	0.70
1:E:376:ARG:O	1:E:383:ASP:HB3	1.91	0.70
1:E:78:VAL:HG12	1:E:79:LEU:N	2.06	0.70
1:L:376:ARG:O	1:L:383:ASP:HB3	1.91	0.70
1:B:199:PRO:HB3	1:B:282:THR:HG22	1.72	0.70
1:B:458:ARG:HG3	1:B:459:ARG:H	1.56	0.70
1:D:351:PHE:CE1	1:D:388:PRO:HG3	2.27	0.70
1:G:35:PHE:C	1:G:37:ARG:H	1.93	0.70
1:J:34:PHE:CE2	1:J:45:LEU:HG	2.27	0.70
1:F:248:LYS:HZ2	1:F:251:ILE:HD12	1.54	0.70
1:D:199:PRO:HB3	1:D:282:THR:HG22	1.72	0.70
1:J:376:ARG:O	1:J:383:ASP:HB3	1.91	0.70
1:F:351:PHE:CE1	1:F:388:PRO:HG3	2.27	0.70
1:G:34:PHE:CE2	1:G:45:LEU:HG	2.27	0.70
1:J:225:VAL:HG22	1:J:276:VAL:HG12	1.74	0.70
1:D:158:TRP:CD1	1:D:158:TRP:N	2.56	0.70
1:E:351:PHE:CE1	1:E:388:PRO:HG3	2.27	0.70
1:C:351:PHE:CE1	1:C:388:PRO:HG3	2.27	0.70
1:H:77:ASP:CB	1:H:523:SER:HA	2.21	0.70
1:I:248:LYS:HG3	1:I:511:ARG:HH11	1.55	0.70
1:C:35:PHE:C	1:C:37:ARG:H	1.93	0.70
1:F:34:PHE:CE2	1:F:45:LEU:HG	2.27	0.70
1:L:585:GLU:C	1:L:587:PRO:HD3	2.12	0.70
1:I:376:ARG:O	1:I:383:ASP:HB3	1.91	0.70
1:K:199:PRO:HB3	1:K:282:THR:HG22	1.72	0.70
1:J:325:ASP:OD2	1:K:56:GLN:HB2	1.92	0.70
1:D:77:ASP:CB	1:D:523:SER:HA	2.21	0.70
1:H:78:VAL:HG12	1:H:79:LEU:N	2.06	0.70
1:I:584:PRO:HG2	1:I:590:GLN:HG2	1.74	0.70
1:B:225:VAL:HG22	1:B:276:VAL:HG12	1.74	0.70
1:I:199:PRO:HB3	1:I:282:THR:HG22	1.72	0.70
1:A:376:ARG:O	1:A:383:ASP:HB3	1.91	0.70
1:G:78:VAL:HG12	1:G:79:LEU:N	2.06	0.70
1:K:248:LYS:HG3	1:K:511:ARG:HH11	1.55	0.70
1:F:210:PRO:HD2	1:F:211:TRP:CH2	2.27	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:210:PRO:HD2	1:I:211:TRP:CH2	2.27	0.70
1:H:584:PRO:HG2	1:H:590:GLN:HG2	1.74	0.70
1:D:376:ARG:O	1:D:383:ASP:HB3	1.91	0.70
1:B:210:PRO:HD2	1:B:211:TRP:CH2	2.27	0.70
1:C:34:PHE:CE2	1:C:45:LEU:HG	2.27	0.70
1:I:35:PHE:C	1:I:37:ARG:H	1.93	0.70
1:G:248:LYS:HG3	1:G:511:ARG:HH11	1.55	0.70
1:D:585:GLU:C	1:D:587:PRO:HD3	2.12	0.70
1:C:376:ARG:O	1:C:383:ASP:HB3	1.91	0.70
1:J:351:PHE:CE1	1:J:388:PRO:HG3	2.27	0.70
1:C:458:ARG:HG3	1:C:459:ARG:H	1.56	0.70
1:B:351:PHE:CE1	1:B:388:PRO:HG3	2.27	0.70
1:F:78:VAL:HG12	1:F:79:LEU:N	2.06	0.70
1:K:35:PHE:C	1:K:37:ARG:H	1.93	0.70
1:E:35:PHE:C	1:E:37:ARG:H	1.93	0.70
1:G:585:GLU:C	1:G:587:PRO:HD3	2.12	0.70
1:F:458:ARG:HG3	1:F:459:ARG:H	1.56	0.70
1:F:376:ARG:O	1:F:383:ASP:HB3	1.91	0.70
1:A:78:VAL:HG12	1:A:79:LEU:N	2.06	0.69
1:K:26:ARG:HG2	1:L:212:LEU:HD22	1.73	0.69
1:C:210:PRO:HD2	1:C:211:TRP:CH2	2.27	0.69
1:C:144:ILE:HG12	1:C:447:TYR:CE1	2.27	0.69
1:G:225:VAL:HG22	1:G:276:VAL:HG12	1.74	0.69
1:I:225:VAL:HG22	1:I:276:VAL:HG12	1.74	0.69
1:G:382:GLY:O	1:G:384:LEU:HD13	1.92	0.69
1:D:382:GLY:O	1:D:384:LEU:HD13	1.92	0.69
1:F:382:GLY:O	1:F:384:LEU:HD13	1.92	0.69
1:D:458:ARG:HG3	1:D:459:ARG:H	1.56	0.69
1:G:351:PHE:CE1	1:G:388:PRO:HG3	2.27	0.69
1:K:236:GLN:HB2	1:K:265:LYS:HG2	1.75	0.69
1:G:236:GLN:HB2	1:G:265:LYS:NZ	2.06	0.69
1:H:210:PRO:HD2	1:H:211:TRP:CH2	2.27	0.69
1:H:35:PHE:C	1:H:37:ARG:H	1.93	0.69
1:E:585:GLU:C	1:E:587:PRO:HD3	2.12	0.69
1:L:382:GLY:O	1:L:384:LEU:HD13	1.92	0.69
1:H:66:LYS:NZ	1:H:420:VAL:HG11	2.08	0.69
1:D:66:LYS:NZ	1:D:420:VAL:HG11	2.08	0.69
1:F:411:ALA:HB1	1:G:57:PHE:HD1	1.56	0.69
1:A:225:VAL:HG22	1:A:276:VAL:HG12	1.74	0.69
1:J:434:THR:HA	1:J:437:GLN:CD	2.13	0.69
1:B:78:VAL:HG12	1:B:79:LEU:N	2.06	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:210:PRO:HD2	1:A:211:TRP:CH2	2.27	0.69
1:E:210:PRO:HD2	1:E:211:TRP:CH2	2.27	0.69
1:C:585:GLU:C	1:C:587:PRO:HD3	2.12	0.69
1:C:82:PRO:HG2	1:D:560:LEU:HD22	1.73	0.69
1:C:66:LYS:NZ	1:C:420:VAL:HG11	2.08	0.69
1:A:337:ASN:HD21	1:A:401:ASN:HD22	1.41	0.69
1:G:458:ARG:HG3	1:G:459:ARG:H	1.56	0.69
1:H:458:ARG:HG3	1:H:459:ARG:H	1.56	0.69
1:K:351:PHE:CE1	1:K:388:PRO:HG3	2.27	0.69
1:A:351:PHE:CE1	1:A:388:PRO:HG3	2.27	0.69
1:I:351:PHE:CE1	1:I:388:PRO:HG3	2.27	0.69
1:L:434:THR:HA	1:L:437:GLN:CD	2.13	0.69
1:L:248:LYS:HG3	1:L:511:ARG:HH11	1.55	0.69
1:D:35:PHE:C	1:D:37:ARG:H	1.93	0.69
1:H:34:PHE:CE2	1:H:45:LEU:HG	2.27	0.69
1:F:584:PRO:HG2	1:F:590:GLN:HG2	1.74	0.69
1:G:144:ILE:HG12	1:G:447:TYR:CE1	2.27	0.69
1:F:434:THR:HA	1:F:437:GLN:CD	2.13	0.69
1:I:434:THR:HA	1:I:437:GLN:CD	2.13	0.69
1:G:152:ALA:O	1:G:156:VAL:HG22	1.90	0.69
1:C:434:THR:HA	1:C:437:GLN:CD	2.13	0.69
1:K:210:PRO:HD2	1:K:211:TRP:CH2	2.27	0.69
1:I:236:GLN:HB2	1:I:265:LYS:HG2	1.75	0.69
1:L:34:PHE:CE2	1:L:45:LEU:HG	2.27	0.69
1:D:34:PHE:CE2	1:D:45:LEU:HG	2.27	0.69
1:D:210:PRO:HD2	1:D:211:TRP:CH2	2.27	0.69
1:B:27:ARG:HG2	1:C:212:LEU:HD13	1.75	0.69
1:I:585:GLU:C	1:I:587:PRO:HD3	2.12	0.69
1:K:584:PRO:HG2	1:K:590:GLN:HG2	1.74	0.69
1:B:376:ARG:O	1:B:383:ASP:HB3	1.91	0.69
1:H:351:PHE:CE1	1:H:388:PRO:HG3	2.27	0.69
1:C:400:ALA:CB	1:D:395:PRO:HB2	2.22	0.69
1:L:458:ARG:HG3	1:L:459:ARG:H	1.56	0.69
1:K:77:ASP:CB	1:K:523:SER:HA	2.21	0.69
1:L:236:GLN:HB2	1:L:265:LYS:NZ	2.06	0.69
1:E:34:PHE:CE2	1:E:45:LEU:HG	2.27	0.69
1:B:66:LYS:NZ	1:B:420:VAL:HG11	2.08	0.69
1:B:5:GLU:HG2	1:B:6:ASN:H	1.58	0.69
1:G:411:ALA:HB1	1:H:57:PHE:HD1	1.57	0.69
1:L:351:PHE:CE1	1:L:388:PRO:HG3	2.27	0.69
1:A:458:ARG:HG3	1:A:459:ARG:H	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:78:VAL:HG12	1:L:79:LEU:N	2.06	0.69
1:B:34:PHE:CE2	1:B:45:LEU:HG	2.27	0.69
1:I:34:PHE:CE2	1:I:45:LEU:HG	2.27	0.69
1:D:236:GLN:HB2	1:D:265:LYS:HG2	1.75	0.69
1:J:585:GLU:C	1:J:587:PRO:HD3	2.12	0.69
1:I:158:TRP:CD1	1:I:158:TRP:N	2.56	0.69
1:J:66:LYS:NZ	1:J:420:VAL:HG11	2.08	0.69
1:E:66:LYS:NZ	1:E:420:VAL:HG11	2.08	0.69
1:H:5:GLU:HG2	1:H:6:ASN:H	1.58	0.69
1:E:225:VAL:HG22	1:E:276:VAL:HG12	1.74	0.69
1:H:225:VAL:HG22	1:H:276:VAL:HG12	1.74	0.69
1:C:337:ASN:HD21	1:C:401:ASN:HD22	1.41	0.69
1:E:5:GLU:HG2	1:E:6:ASN:H	1.58	0.69
1:J:236:GLN:HB2	1:J:265:LYS:HG2	1.75	0.69
1:I:78:VAL:HG12	1:I:79:LEU:N	2.06	0.69
1:A:236:GLN:CB	1:A:265:LYS:HZ3	2.06	0.69
1:F:236:GLN:HB2	1:F:265:LYS:HG2	1.75	0.69
1:G:27:ARG:CZ	1:H:211:TRP:HB3	2.22	0.69
1:H:34:PHE:HZ	1:H:328:ARG:NH2	1.91	0.69
1:K:34:PHE:HZ	1:K:328:ARG:NH2	1.91	0.69
1:L:584:PRO:HG2	1:L:590:GLN:HG2	1.74	0.69
1:F:585:GLU:C	1:F:587:PRO:HD3	2.12	0.69
1:A:66:LYS:NZ	1:A:420:VAL:HG11	2.08	0.69
1:L:66:LYS:NZ	1:L:420:VAL:HG11	2.08	0.69
1:F:66:LYS:NZ	1:F:420:VAL:HG11	2.08	0.69
1:I:382:GLY:O	1:I:384:LEU:HD13	1.92	0.69
1:I:458:ARG:HG3	1:I:459:ARG:H	1.56	0.69
1:I:5:GLU:HG2	1:I:6:ASN:H	1.58	0.69
1:I:337:ASN:HD21	1:I:401:ASN:HD22	1.41	0.69
1:G:337:ASN:HD21	1:G:401:ASN:HD22	1.40	0.69
1:J:5:GLU:HG2	1:J:6:ASN:H	1.58	0.69
1:G:210:PRO:HD2	1:G:211:TRP:CH2	2.27	0.69
1:E:236:GLN:HB2	1:E:265:LYS:HG2	1.75	0.69
1:F:34:PHE:HZ	1:F:328:ARG:NH2	1.91	0.69
1:A:34:PHE:CE2	1:A:45:LEU:HG	2.27	0.69
1:K:34:PHE:CE2	1:K:45:LEU:HG	2.27	0.69
1:B:236:GLN:HB2	1:B:265:LYS:HG2	1.75	0.69
1:A:584:PRO:HG2	1:A:590:GLN:HG2	1.74	0.69
1:K:585:GLU:C	1:K:587:PRO:HD3	2.12	0.69
1:K:66:LYS:NZ	1:K:420:VAL:HG11	2.08	0.69
1:B:670:LYS:O	1:B:673:ALA:HB3	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:458:ARG:HG3	1:E:459:ARG:H	1.56	0.69
1:K:5:GLU:HG2	1:K:6:ASN:H	1.58	0.69
1:J:337:ASN:HD21	1:J:401:ASN:HD22	1.41	0.69
1:G:5:GLU:HG2	1:G:6:ASN:H	1.58	0.69
1:G:77:ASP:CB	1:G:523:SER:HA	2.21	0.69
1:J:27:ARG:HG2	1:K:212:LEU:HD13	1.75	0.69
1:A:585:GLU:C	1:A:587:PRO:HD3	2.12	0.69
1:A:57:PHE:HD1	1:L:411:ALA:CB	2.06	0.69
1:K:352:TRP:CZ2	1:L:385:PRO:HG2	2.28	0.69
1:A:434:THR:HA	1:A:437:GLN:CD	2.13	0.69
1:D:441:ARG:HH21	1:E:525:GLN:NE2	1.90	0.69
1:D:434:THR:HG21	1:E:72:ARG:HG2	1.75	0.69
1:C:382:GLY:O	1:C:384:LEU:HD13	1.92	0.69
1:L:112:ASN:O	1:L:115:VAL:HG22	1.94	0.69
1:F:77:ASP:CB	1:F:523:SER:HA	2.21	0.68
1:F:89:ASP:CA	1:G:561:ASP:HB2	2.24	0.68
1:H:236:GLN:HB2	1:H:265:LYS:NZ	2.05	0.68
1:H:434:THR:HA	1:H:437:GLN:CD	2.13	0.68
1:K:546:THR:CG2	1:K:547:PRO:HD3	2.23	0.68
1:E:236:GLN:HB2	1:E:265:LYS:NZ	2.06	0.68
1:I:34:PHE:HZ	1:I:328:ARG:NH2	1.91	0.68
1:K:225:VAL:HG22	1:K:276:VAL:HG12	1.74	0.68
1:B:382:GLY:O	1:B:384:LEU:HD13	1.92	0.68
1:B:66:LYS:HZ3	1:B:420:VAL:HG21	1.57	0.68
1:K:382:GLY:O	1:K:384:LEU:HD13	1.92	0.68
1:H:382:GLY:O	1:H:384:LEU:HD13	1.92	0.68
1:K:670:LYS:O	1:K:673:ALA:HB3	1.93	0.68
1:A:5:GLU:HG2	1:A:6:ASN:H	1.58	0.68
1:C:77:ASP:CB	1:C:523:SER:HA	2.21	0.68
1:D:546:THR:CG2	1:D:547:PRO:HD3	2.23	0.68
1:J:210:PRO:HD2	1:J:211:TRP:CH2	2.27	0.68
1:D:584:PRO:HG2	1:D:590:GLN:HG2	1.74	0.68
1:E:584:PRO:HG2	1:E:590:GLN:HG2	1.74	0.68
1:A:144:ILE:HG12	1:A:447:TYR:CE1	2.27	0.68
1:D:5:GLU:HG2	1:D:6:ASN:H	1.58	0.68
1:B:434:THR:HA	1:B:437:GLN:CD	2.13	0.68
1:J:77:ASP:CB	1:J:523:SER:HA	2.21	0.68
1:G:236:GLN:HB2	1:G:265:LYS:HG2	1.75	0.68
1:C:236:GLN:HB2	1:C:265:LYS:HG2	1.75	0.68
1:L:236:GLN:HB2	1:L:265:LYS:HG2	1.75	0.68
1:G:34:PHE:HZ	1:G:328:ARG:NH2	1.91	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:37:ARG:NH2	1:K:41:TRP:CE3	2.62	0.68
1:B:26:ARG:HG2	1:C:212:LEU:HD22	1.75	0.68
1:D:434:THR:HA	1:D:437:GLN:CD	2.13	0.68
1:A:112:ASN:O	1:A:115:VAL:HG22	1.94	0.68
1:F:670:LYS:O	1:F:673:ALA:HB3	1.93	0.68
1:L:546:THR:CG2	1:L:547:PRO:HD3	2.23	0.68
1:J:37:ARG:NH2	1:J:41:TRP:CE3	2.62	0.68
1:L:34:PHE:HZ	1:L:328:ARG:NH2	1.91	0.68
1:F:37:ARG:NH2	1:F:41:TRP:CE3	2.62	0.68
1:B:337:ASN:HD21	1:B:401:ASN:HD22	1.41	0.68
1:E:434:THR:HA	1:E:437:GLN:CD	2.13	0.68
1:A:557:PHE:CE2	1:B:563:LYS:HD3	2.28	0.68
1:J:584:PRO:HG2	1:J:590:GLN:HG2	1.74	0.68
1:L:210:PRO:HD2	1:L:211:TRP:CH2	2.27	0.68
1:H:585:GLU:C	1:H:587:PRO:HD3	2.12	0.68
1:G:584:PRO:HG2	1:G:590:GLN:HG2	1.74	0.68
1:C:225:VAL:HG22	1:C:276:VAL:HG12	1.74	0.68
1:D:225:VAL:HG22	1:D:276:VAL:HG12	1.74	0.68
1:I:66:LYS:NZ	1:I:420:VAL:HG11	2.08	0.68
1:K:82:PRO:HD2	1:L:560:LEU:HD13	1.75	0.68
1:A:670:LYS:O	1:A:673:ALA:HB3	1.93	0.68
1:H:670:LYS:O	1:H:673:ALA:HB3	1.93	0.68
1:C:5:GLU:HG2	1:C:6:ASN:H	1.58	0.68
1:I:670:LYS:O	1:I:673:ALA:HB3	1.93	0.68
1:L:225:VAL:HG22	1:L:276:VAL:HG12	1.74	0.68
1:D:670:LYS:O	1:D:673:ALA:HB3	1.93	0.68
1:K:434:THR:HA	1:K:437:GLN:CD	2.13	0.68
1:E:382:GLY:O	1:E:384:LEU:HD13	1.92	0.68
1:G:434:THR:HA	1:G:437:GLN:CD	2.13	0.68
1:E:37:ARG:NH2	1:E:41:TRP:CE3	2.62	0.68
1:J:382:GLY:O	1:J:384:LEU:HD13	1.92	0.68
1:C:670:LYS:O	1:C:673:ALA:HB3	1.93	0.68
1:J:112:ASN:O	1:J:115:VAL:HG22	1.94	0.68
1:G:546:THR:CG2	1:G:547:PRO:HD3	2.24	0.68
1:L:37:ARG:NH2	1:L:41:TRP:CE3	2.62	0.68
1:G:670:LYS:O	1:G:673:ALA:HB3	1.93	0.68
1:C:112:ASN:O	1:C:115:VAL:HG22	1.94	0.68
1:J:670:LYS:O	1:J:673:ALA:HB3	1.93	0.68
1:A:62:PRO:HG3	1:L:415:VAL:HA	1.75	0.68
1:G:37:ARG:NH2	1:G:41:TRP:CE3	2.62	0.68
1:C:34:PHE:HZ	1:C:328:ARG:NH2	1.91	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:37:ARG:NH2	1:I:41:TRP:CE3	2.62	0.68
1:L:144:ILE:HG12	1:L:447:TYR:CE1	2.27	0.68
1:B:585:GLU:C	1:B:587:PRO:HD3	2.12	0.68
1:G:66:LYS:NZ	1:G:420:VAL:HG11	2.08	0.68
1:F:66:LYS:HZ3	1:F:420:VAL:HG21	1.59	0.68
1:A:382:GLY:O	1:A:384:LEU:HD13	1.92	0.68
1:G:112:ASN:O	1:G:115:VAL:HG22	1.94	0.68
1:I:554:LEU:HD21	1:J:564:GLY:HA2	1.76	0.68
1:E:670:LYS:O	1:E:673:ALA:HB3	1.93	0.68
1:F:5:GLU:HG2	1:F:6:ASN:H	1.58	0.68
1:K:118:GLN:HA	1:K:123:VAL:O	1.94	0.68
1:D:411:ALA:HB1	1:E:57:PHE:CD1	2.24	0.68
1:J:34:PHE:HZ	1:J:328:ARG:NH2	1.91	0.68
1:H:37:ARG:NH2	1:H:41:TRP:CE3	2.62	0.68
1:A:37:ARG:NH2	1:A:41:TRP:CE3	2.62	0.68
1:A:398:PRO:HB3	1:B:395:PRO:HD2	1.76	0.68
1:F:225:VAL:HG22	1:F:276:VAL:HG12	1.74	0.68
1:D:400:ALA:HA	1:E:397:VAL:HG23	1.75	0.68
1:K:236:GLN:HB2	1:K:265:LYS:NZ	2.05	0.68
1:D:352:TRP:CD1	1:E:374:LEU:O	2.47	0.68
1:K:112:ASN:O	1:K:115:VAL:HG22	1.94	0.68
1:L:5:GLU:HG2	1:L:6:ASN:H	1.58	0.68
1:C:584:PRO:HG2	1:C:590:GLN:HG2	1.74	0.67
1:A:57:PHE:CD1	1:L:411:ALA:CB	2.77	0.67
1:I:427:GLY:C	1:I:429:GLN:H	1.98	0.67
1:I:118:GLN:HA	1:I:123:VAL:O	1.94	0.67
1:C:118:GLN:HA	1:C:123:VAL:O	1.94	0.67
1:D:112:ASN:O	1:D:115:VAL:HG22	1.94	0.67
1:D:37:ARG:NH2	1:D:41:TRP:CE3	2.62	0.67
1:K:144:ILE:HG12	1:K:447:TYR:CE1	2.27	0.67
1:K:337:ASN:HD21	1:K:401:ASN:HD22	1.41	0.67
1:I:112:ASN:O	1:I:115:VAL:HG22	1.94	0.67
1:D:118:GLN:HA	1:D:123:VAL:O	1.94	0.67
1:J:89:ASP:CA	1:K:561:ASP:HB2	2.24	0.67
1:L:670:LYS:O	1:L:673:ALA:HB3	1.93	0.67
1:J:92:ASP:HB3	1:K:561:ASP:OD2	1.95	0.67
1:A:77:ASP:CB	1:A:523:SER:HA	2.21	0.67
1:H:89:ASP:CA	1:I:561:ASP:HB2	2.23	0.67
1:K:427:GLY:C	1:K:429:GLN:H	1.98	0.67
1:L:427:GLY:C	1:L:429:GLN:H	1.98	0.67
1:D:427:GLY:C	1:D:429:GLN:H	1.98	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:118:GLN:HA	1:H:123:VAL:O	1.94	0.67
1:G:118:GLN:HA	1:G:123:VAL:O	1.94	0.67
1:F:112:ASN:O	1:F:115:VAL:HG22	1.94	0.67
1:L:118:GLN:HA	1:L:123:VAL:O	1.94	0.67
1:C:37:ARG:NH2	1:C:41:TRP:CE3	2.62	0.67
1:B:112:ASN:O	1:B:115:VAL:HG22	1.94	0.67
1:J:210:PRO:HD2	1:J:211:TRP:CE3	2.30	0.67
1:D:309:PHE:HB2	1:E:150:HIS:ND1	2.09	0.67
1:B:584:PRO:HG2	1:B:590:GLN:HG2	1.74	0.67
1:D:575:GLN:O	1:D:579:MET:HG2	1.95	0.67
1:E:112:ASN:O	1:E:115:VAL:HG22	1.94	0.67
1:I:77:ASP:CB	1:I:523:SER:HA	2.21	0.67
1:A:236:GLN:HB2	1:A:265:LYS:HG2	1.75	0.67
1:K:575:GLN:O	1:K:579:MET:HG2	1.95	0.67
1:B:575:GLN:O	1:B:579:MET:HG2	1.95	0.67
1:G:210:PRO:HD2	1:G:211:TRP:CE3	2.30	0.67
1:H:236:GLN:HB2	1:H:265:LYS:HG2	1.75	0.67
1:B:34:PHE:HZ	1:B:328:ARG:NH2	1.91	0.67
1:H:427:GLY:C	1:H:429:GLN:H	1.98	0.67
1:A:311:GLU:O	1:A:312:ASP:HB2	1.95	0.67
1:B:325:ASP:O	1:B:329:LEU:HD23	1.95	0.67
1:A:546:THR:CG2	1:A:547:PRO:HD3	2.23	0.67
1:D:337:ASN:HD21	1:D:401:ASN:HD22	1.41	0.67
1:B:37:ARG:NH2	1:B:41:TRP:CE3	2.62	0.67
1:E:210:PRO:HD2	1:E:211:TRP:CE3	2.30	0.67
1:I:144:ILE:HG12	1:I:447:TYR:CE1	2.27	0.67
1:I:210:PRO:HD2	1:I:211:TRP:CE3	2.30	0.67
1:G:575:GLN:O	1:G:579:MET:HG2	1.95	0.67
1:A:390:ALA:HB3	1:B:387:GLN:OE1	1.95	0.67
1:F:337:ASN:HD21	1:F:401:ASN:HD22	1.41	0.67
1:G:325:ASP:O	1:G:329:LEU:HD23	1.95	0.67
1:J:325:ASP:O	1:J:329:LEU:HD23	1.95	0.67
1:A:554:LEU:HD21	1:B:564:GLY:CA	2.21	0.67
1:I:546:THR:CG2	1:I:547:PRO:HD3	2.23	0.67
1:L:337:ASN:HD21	1:L:401:ASN:HD22	1.41	0.67
1:H:112:ASN:O	1:H:115:VAL:HG22	1.94	0.67
1:H:575:GLN:O	1:H:579:MET:HG2	1.95	0.67
1:E:337:ASN:HD21	1:E:401:ASN:HD22	1.41	0.67
1:H:210:PRO:HD2	1:H:211:TRP:CE3	2.30	0.66
1:D:210:PRO:HD2	1:D:211:TRP:CE3	2.30	0.66
1:L:311:GLU:O	1:L:312:ASP:HB2	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:311:GLU:O	1:I:312:ASP:HB2	1.95	0.66
1:D:311:GLU:O	1:D:312:ASP:HB2	1.95	0.66
1:D:325:ASP:O	1:D:329:LEU:HD23	1.95	0.66
1:L:34:PHE:CZ	1:L:328:ARG:NH2	2.62	0.66
1:A:34:PHE:HZ	1:A:328:ARG:NH2	1.91	0.66
1:J:575:GLN:O	1:J:579:MET:HG2	1.95	0.66
1:E:575:GLN:O	1:E:579:MET:HG2	1.95	0.66
1:A:58:ASP:CG	1:L:322:LEU:HD12	2.09	0.66
1:J:546:THR:CG2	1:J:547:PRO:HD3	2.23	0.66
1:G:32:ASP:HA	1:G:35:PHE:CE1	2.31	0.66
1:F:210:PRO:HD2	1:F:211:TRP:CE3	2.30	0.66
1:L:101:ASP:HB2	1:L:144:ILE:O	1.96	0.66
1:E:352:TRP:HD1	1:F:374:LEU:O	1.78	0.66
1:B:118:GLN:HA	1:B:123:VAL:O	1.94	0.66
1:K:325:ASP:O	1:K:329:LEU:HD23	1.95	0.66
1:B:210:PRO:HD2	1:B:211:TRP:CE3	2.30	0.66
1:L:77:ASP:CB	1:L:523:SER:HA	2.21	0.66
1:I:32:ASP:HA	1:I:35:PHE:CE1	2.30	0.66
1:I:101:ASP:HB2	1:I:144:ILE:O	1.96	0.66
1:J:427:GLY:C	1:J:429:GLN:H	1.98	0.66
1:F:118:GLN:HA	1:F:123:VAL:O	1.94	0.66
1:J:118:GLN:HA	1:J:123:VAL:O	1.94	0.66
1:E:311:GLU:O	1:E:312:ASP:HB2	1.95	0.66
1:H:34:PHE:CZ	1:H:328:ARG:NH2	2.62	0.66
1:G:427:GLY:C	1:G:429:GLN:H	1.98	0.66
1:K:101:ASP:HB2	1:K:144:ILE:O	1.96	0.66
1:J:66:LYS:HZ1	1:J:420:VAL:HG21	1.61	0.66
1:C:350:PHE:HA	1:D:372:TYR:O	1.95	0.66
1:C:311:GLU:O	1:C:312:ASP:HB2	1.95	0.66
1:A:118:GLN:HA	1:A:123:VAL:O	1.94	0.66
1:E:118:GLN:HA	1:E:123:VAL:O	1.94	0.66
1:A:325:ASP:O	1:A:329:LEU:HD23	1.95	0.66
1:L:32:ASP:HA	1:L:35:PHE:CE1	2.31	0.66
1:D:32:ASP:HA	1:D:35:PHE:CE1	2.31	0.66
1:D:34:PHE:HZ	1:D:328:ARG:NH2	1.91	0.66
1:K:32:ASP:HA	1:K:35:PHE:CE1	2.31	0.66
1:A:65:ARG:HG2	1:L:306:GLU:OE2	1.95	0.66
1:F:66:LYS:NZ	1:F:420:VAL:HG21	2.11	0.66
1:F:311:GLU:O	1:F:312:ASP:HB2	1.95	0.66
1:K:210:PRO:HD2	1:K:211:TRP:CE3	2.30	0.66
1:A:32:ASP:HA	1:A:35:PHE:CE1	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:101:ASP:HB2	1:D:144:ILE:O	1.96	0.66
1:C:101:ASP:HB2	1:C:144:ILE:O	1.96	0.66
1:I:575:GLN:O	1:I:579:MET:HG2	1.95	0.66
1:L:325:ASP:O	1:L:329:LEU:HD23	1.95	0.66
1:A:528:LYS:CD	1:A:560:LEU:HD21	2.26	0.66
1:J:32:ASP:HA	1:J:35:PHE:CE1	2.30	0.66
1:H:32:ASP:HA	1:H:35:PHE:CE1	2.30	0.66
1:E:427:GLY:C	1:E:429:GLN:H	1.98	0.66
1:D:66:LYS:HZ3	1:D:420:VAL:HG11	1.59	0.66
1:A:310:VAL:C	1:A:312:ASP:H	1.99	0.66
1:F:325:ASP:O	1:F:329:LEU:HD23	1.95	0.66
1:C:210:PRO:HD2	1:C:211:TRP:CE3	2.30	0.66
1:G:101:ASP:HB2	1:G:144:ILE:O	1.96	0.66
1:F:310:VAL:C	1:F:312:ASP:H	1.99	0.66
1:D:364:ASP:HA	1:E:370:PRO:HB3	1.78	0.66
1:G:528:LYS:CD	1:G:560:LEU:HD21	2.26	0.66
1:D:34:PHE:CZ	1:D:328:ARG:NH2	2.62	0.66
1:E:34:PHE:HZ	1:E:328:ARG:NH2	1.91	0.66
1:A:210:PRO:HD2	1:A:211:TRP:CE3	2.30	0.66
1:H:27:ARG:CZ	1:I:211:TRP:HB3	2.25	0.66
1:E:101:ASP:HB2	1:E:144:ILE:O	1.96	0.66
1:K:352:TRP:CD1	1:L:374:LEU:O	2.49	0.66
1:J:66:LYS:NZ	1:J:420:VAL:HG21	2.11	0.66
1:A:150:HIS:CG	1:L:309:PHE:HB2	2.31	0.66
1:B:311:GLU:O	1:B:312:ASP:HB2	1.95	0.66
1:G:325:ASP:OD2	1:H:56:GLN:HB2	1.96	0.65
1:H:325:ASP:O	1:H:329:LEU:HD23	1.95	0.65
1:A:108:LYS:CE	1:L:438:LEU:HD11	2.27	0.65
1:B:89:ASP:HA	1:C:561:ASP:CB	2.25	0.65
1:G:34:PHE:CZ	1:G:328:ARG:NH2	2.62	0.65
1:C:32:ASP:HA	1:C:35:PHE:CE1	2.31	0.65
1:L:210:PRO:HD2	1:L:211:TRP:CE3	2.30	0.65
1:A:101:ASP:HB2	1:A:144:ILE:O	1.96	0.65
1:L:66:LYS:HZ3	1:L:420:VAL:CG2	2.08	0.65
1:K:89:ASP:HA	1:L:561:ASP:HB2	1.76	0.65
1:L:528:LYS:CD	1:L:560:LEU:HD21	2.26	0.65
1:C:575:GLN:O	1:C:579:MET:HG2	1.95	0.65
1:L:575:GLN:O	1:L:579:MET:HG2	1.95	0.65
1:H:248:LYS:CG	1:H:511:ARG:HH11	2.10	0.65
1:A:427:GLY:C	1:A:429:GLN:H	1.98	0.65
1:B:427:GLY:C	1:B:429:GLN:H	1.98	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:66:LYS:NZ	1:C:420:VAL:HG21	2.11	0.65
1:J:311:GLU:O	1:J:312:ASP:HB2	1.95	0.65
1:E:325:ASP:O	1:E:329:LEU:HD23	1.95	0.65
1:A:108:LYS:NZ	1:L:438:LEU:HD11	2.11	0.65
1:E:248:LYS:CG	1:E:511:ARG:HH11	2.10	0.65
1:H:273:ARG:HH22	1:H:453:LEU:CD2	2.10	0.65
1:F:34:PHE:CZ	1:F:328:ARG:NH2	2.62	0.65
1:B:32:ASP:HA	1:B:35:PHE:CE1	2.31	0.65
1:E:66:LYS:NZ	1:E:420:VAL:HG21	2.11	0.65
1:D:66:LYS:NZ	1:D:420:VAL:HG21	2.11	0.65
1:A:575:GLN:O	1:A:579:MET:HG2	1.95	0.65
1:K:350:PHE:HE1	1:L:363:TYR:HE1	1.43	0.65
1:H:310:VAL:C	1:H:312:ASP:H	1.99	0.65
1:H:337:ASN:HD21	1:H:401:ASN:HD22	1.41	0.65
1:I:325:ASP:O	1:I:329:LEU:HD23	1.95	0.65
1:F:546:THR:CG2	1:F:547:PRO:HD3	2.23	0.65
1:L:248:LYS:CG	1:L:511:ARG:HH11	2.10	0.65
1:A:66:LYS:NZ	1:A:420:VAL:HG21	2.11	0.65
1:B:66:LYS:NZ	1:B:420:VAL:HG21	2.11	0.65
1:C:310:VAL:C	1:C:312:ASP:H	1.99	0.65
1:G:311:GLU:O	1:G:312:ASP:HB2	1.95	0.65
1:F:575:GLN:O	1:F:579:MET:HG2	1.95	0.65
1:C:34:PHE:CZ	1:C:328:ARG:NH2	2.62	0.65
1:E:32:ASP:HA	1:E:35:PHE:CE1	2.31	0.65
1:H:66:LYS:NZ	1:H:420:VAL:HG21	2.11	0.65
1:K:66:LYS:NZ	1:K:420:VAL:HG21	2.11	0.65
1:F:27:ARG:HD2	1:G:212:LEU:H	1.61	0.65
1:E:546:THR:CG2	1:E:547:PRO:HD3	2.23	0.65
1:K:273:ARG:HH22	1:K:453:LEU:CD2	2.10	0.65
1:I:273:ARG:HH22	1:I:453:LEU:CD2	2.10	0.65
1:J:45:LEU:N	1:J:45:LEU:HD22	2.12	0.65
1:A:273:ARG:HH22	1:A:453:LEU:CD2	2.10	0.65
1:C:45:LEU:N	1:C:45:LEU:HD22	2.12	0.65
1:F:32:ASP:HA	1:F:35:PHE:CE1	2.31	0.65
1:G:248:LYS:CG	1:G:511:ARG:HH11	2.10	0.65
1:B:144:ILE:HG12	1:B:447:TYR:CE1	2.27	0.65
1:H:101:ASP:HB2	1:H:144:ILE:O	1.96	0.65
1:C:89:ASP:HA	1:D:561:ASP:CB	2.26	0.65
1:G:66:LYS:HZ3	1:G:420:VAL:CG2	2.10	0.65
1:H:552:LEU:O	1:H:555:GLN:HB3	1.97	0.65
1:J:528:LYS:CD	1:J:560:LEU:HD21	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:77:ASP:CB	1:E:523:SER:HA	2.21	0.65
1:B:528:LYS:CD	1:B:560:LEU:HD21	2.26	0.65
1:F:236:GLN:CB	1:F:265:LYS:HZ3	2.07	0.65
1:B:273:ARG:HH22	1:B:453:LEU:CD2	2.10	0.65
1:D:45:LEU:N	1:D:45:LEU:HD22	2.12	0.65
1:E:45:LEU:N	1:E:45:LEU:HD22	2.12	0.65
1:F:144:ILE:HG12	1:F:447:TYR:CE1	2.27	0.65
1:H:144:ILE:HG12	1:H:447:TYR:CE1	2.27	0.65
1:K:311:GLU:O	1:K:312:ASP:HB2	1.95	0.65
1:H:528:LYS:CD	1:H:560:LEU:HD21	2.26	0.65
1:C:528:LYS:CD	1:C:560:LEU:HD21	2.26	0.65
1:I:248:LYS:CG	1:I:511:ARG:HH11	2.10	0.65
1:L:273:ARG:HH22	1:L:453:LEU:CD2	2.10	0.65
1:F:273:ARG:HH22	1:F:453:LEU:CD2	2.10	0.65
1:A:66:LYS:HZ3	1:A:420:VAL:CG2	2.07	0.65
1:I:66:LYS:NZ	1:I:420:VAL:HG21	2.11	0.65
1:D:434:THR:HG21	1:E:72:ARG:CG	2.27	0.65
1:K:552:LEU:O	1:K:555:GLN:HB3	1.97	0.65
1:I:528:LYS:CD	1:I:560:LEU:HD21	2.26	0.65
1:H:546:THR:CG2	1:H:547:PRO:HD3	2.24	0.65
1:C:248:LYS:CG	1:C:511:ARG:HH11	2.10	0.65
1:B:45:LEU:HD22	1:B:45:LEU:N	2.12	0.65
1:I:45:LEU:HD22	1:I:45:LEU:N	2.12	0.65
1:G:273:ARG:HH22	1:G:453:LEU:CD2	2.10	0.65
1:I:138:THR:H	1:I:143:VAL:CG2	2.10	0.65
1:D:528:LYS:CD	1:D:560:LEU:HD21	2.26	0.65
1:L:66:LYS:NZ	1:L:420:VAL:HG21	2.11	0.65
1:G:66:LYS:NZ	1:G:420:VAL:HG21	2.11	0.65
1:I:310:VAL:C	1:I:312:ASP:H	1.99	0.65
1:J:166:ASP:OD2	1:J:168:SER:HB3	1.97	0.65
1:C:166:ASP:OD2	1:C:168:SER:HB3	1.97	0.65
1:C:325:ASP:O	1:C:329:LEU:HD23	1.95	0.65
1:B:546:THR:CG2	1:B:547:PRO:HD3	2.24	0.65
1:G:45:LEU:HD22	1:G:45:LEU:N	2.12	0.65
1:L:45:LEU:N	1:L:45:LEU:HD22	2.12	0.65
1:F:101:ASP:HB2	1:F:144:ILE:O	1.96	0.65
1:J:310:VAL:C	1:J:312:ASP:H	1.99	0.65
1:I:411:ALA:HB1	1:J:57:PHE:HD1	1.62	0.65
1:B:552:LEU:O	1:B:555:GLN:HB3	1.97	0.65
1:A:560:LEU:HD13	1:L:82:PRO:CD	2.04	0.64
1:B:444:LEU:O	1:B:448:VAL:HG23	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:264:ILE:O	1:C:265:LYS:HD3	1.98	0.64
1:D:248:LYS:CG	1:D:511:ARG:HH11	2.10	0.64
1:C:273:ARG:HH22	1:C:453:LEU:CD2	2.10	0.64
1:E:310:VAL:C	1:E:312:ASP:H	1.99	0.64
1:K:310:VAL:C	1:K:312:ASP:H	1.99	0.64
1:G:552:LEU:O	1:G:555:GLN:HB3	1.97	0.64
1:G:209:PHE:HA	1:G:211:TRP:NE1	2.13	0.64
1:J:273:ARG:HH22	1:J:453:LEU:CD2	2.10	0.64
1:A:248:LYS:CG	1:A:511:ARG:HH11	2.10	0.64
1:D:264:ILE:O	1:D:265:LYS:HD3	1.98	0.64
1:G:248:LYS:HZ2	1:G:251:ILE:HD12	1.61	0.64
1:K:34:PHE:CZ	1:K:328:ARG:NH2	2.62	0.64
1:J:101:ASP:HB2	1:J:144:ILE:O	1.96	0.64
1:F:166:ASP:OD2	1:F:168:SER:HB3	1.97	0.64
1:G:166:ASP:OD2	1:G:168:SER:HB3	1.97	0.64
1:H:166:ASP:OD2	1:H:168:SER:HB3	1.97	0.64
1:L:444:LEU:O	1:L:448:VAL:HG23	1.98	0.64
1:E:444:LEU:O	1:E:448:VAL:HG23	1.98	0.64
1:E:273:ARG:HH22	1:E:453:LEU:CD2	2.10	0.64
1:D:310:VAL:C	1:D:312:ASP:H	1.99	0.64
1:B:310:VAL:C	1:B:312:ASP:H	1.99	0.64
1:H:311:GLU:O	1:H:312:ASP:HB2	1.95	0.64
1:C:552:LEU:O	1:C:555:GLN:HB3	1.97	0.64
1:I:322:LEU:HD11	1:J:58:ASP:OD2	1.95	0.64
1:G:444:LEU:O	1:G:448:VAL:HG23	1.98	0.64
1:L:264:ILE:O	1:L:265:LYS:HD3	1.98	0.64
1:A:138:THR:H	1:A:143:VAL:CG2	2.10	0.64
1:F:427:GLY:C	1:F:429:GLN:H	1.98	0.64
1:D:166:ASP:OD2	1:D:168:SER:HB3	1.97	0.64
1:B:554:LEU:HD22	1:C:567:MET:HE2	1.79	0.64
1:F:264:ILE:O	1:F:265:LYS:HD3	1.98	0.64
1:E:144:ILE:HG12	1:E:447:TYR:CE1	2.27	0.64
1:C:427:GLY:C	1:C:429:GLN:H	1.98	0.64
1:H:411:ALA:CB	1:I:57:PHE:HD1	2.11	0.64
1:G:310:VAL:C	1:G:312:ASP:H	1.99	0.64
1:K:528:LYS:CD	1:K:560:LEU:HD21	2.26	0.64
1:D:444:LEU:O	1:D:448:VAL:HG23	1.98	0.64
1:J:264:ILE:O	1:J:265:LYS:HD3	1.98	0.64
1:I:444:LEU:O	1:I:448:VAL:HG23	1.98	0.64
1:C:546:THR:CG2	1:C:547:PRO:HD3	2.23	0.64
1:A:552:LEU:O	1:A:555:GLN:HB3	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:248:LYS:CG	1:K:511:ARG:HH11	2.10	0.64
1:F:248:LYS:CG	1:F:511:ARG:HH11	2.10	0.64
1:J:413:LYS:HA	1:J:416:ALA:CB	2.28	0.64
1:D:273:ARG:HH22	1:D:453:LEU:CD2	2.10	0.64
1:F:528:LYS:CD	1:F:560:LEU:HD21	2.26	0.64
1:B:236:GLN:CB	1:B:265:LYS:HZ3	2.09	0.64
1:C:24:GLU:C	1:C:26:ARG:H	2.01	0.64
1:L:209:PHE:HA	1:L:211:TRP:NE1	2.13	0.64
1:J:144:ILE:HG12	1:J:447:TYR:CE1	2.27	0.64
1:B:413:LYS:HA	1:B:416:ALA:CB	2.28	0.64
1:E:528:LYS:CD	1:E:560:LEU:HD21	2.26	0.64
1:B:209:PHE:HA	1:B:211:TRP:NE1	2.13	0.64
1:K:444:LEU:O	1:K:448:VAL:HG23	1.98	0.64
1:A:444:LEU:O	1:A:448:VAL:HG23	1.98	0.64
1:E:552:LEU:O	1:E:555:GLN:HB3	1.97	0.64
1:B:248:LYS:CG	1:B:511:ARG:HH11	2.10	0.64
1:L:236:GLN:CB	1:L:265:LYS:HZ3	2.09	0.64
1:J:248:LYS:CG	1:J:511:ARG:HH11	2.10	0.64
1:E:37:ARG:HH21	1:E:37:ARG:CB	2.11	0.64
1:H:24:GLU:C	1:H:26:ARG:H	2.01	0.64
1:H:413:LYS:HA	1:H:416:ALA:CB	2.28	0.64
1:L:603:GLN:O	1:L:607:ALA:N	2.31	0.64
1:L:552:LEU:O	1:L:555:GLN:HB3	1.97	0.64
1:I:166:ASP:OD2	1:I:168:SER:HB3	1.97	0.64
1:H:264:ILE:O	1:H:265:LYS:HD3	1.98	0.64
1:H:444:LEU:O	1:H:448:VAL:HG23	1.98	0.64
1:F:45:LEU:N	1:F:45:LEU:HD22	2.12	0.64
1:K:45:LEU:N	1:K:45:LEU:HD22	2.12	0.64
1:K:264:ILE:O	1:K:265:LYS:HD3	1.98	0.64
1:A:264:ILE:O	1:A:265:LYS:HD3	1.98	0.64
1:D:511:ARG:HA	1:D:513:ARG:CD	2.28	0.64
1:A:45:LEU:HD22	1:A:45:LEU:N	2.12	0.64
1:J:209:PHE:HA	1:J:211:TRP:NE1	2.13	0.64
1:F:209:PHE:HA	1:F:211:TRP:NE1	2.12	0.64
1:B:101:ASP:HB2	1:B:144:ILE:O	1.96	0.64
1:K:66:LYS:HZ3	1:K:420:VAL:HG11	1.62	0.64
1:I:552:LEU:O	1:I:555:GLN:HB3	1.97	0.64
1:D:552:LEU:O	1:D:555:GLN:HB3	1.97	0.64
1:J:411:ALA:HB1	1:K:57:PHE:HD1	1.62	0.64
1:C:248:LYS:HZ2	1:C:251:ILE:HD12	1.60	0.63
1:H:45:LEU:HD22	1:H:45:LEU:N	2.12	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:209:PHE:HA	1:E:211:TRP:NE1	2.12	0.63
1:L:310:VAL:C	1:L:312:ASP:H	1.99	0.63
1:F:603:GLN:O	1:F:607:ALA:N	2.31	0.63
1:F:552:LEU:O	1:F:555:GLN:HB3	1.97	0.63
1:K:166:ASP:OD2	1:K:168:SER:HB3	1.97	0.63
1:F:24:GLU:C	1:F:26:ARG:H	2.01	0.63
1:E:264:ILE:O	1:E:265:LYS:HD3	1.98	0.63
1:H:209:PHE:HA	1:H:211:TRP:NE1	2.13	0.63
1:D:144:ILE:HG12	1:D:447:TYR:CE1	2.27	0.63
1:I:209:PHE:HA	1:I:211:TRP:NE1	2.13	0.63
1:H:166:ASP:CG	1:H:168:SER:HB3	2.19	0.63
1:J:552:LEU:O	1:J:555:GLN:HB3	1.97	0.63
1:B:166:ASP:CG	1:B:168:SER:HB3	2.19	0.63
1:D:329:LEU:HD21	1:E:53:TYR:OH	1.97	0.63
1:K:209:PHE:HA	1:K:211:TRP:NE1	2.12	0.63
1:L:248:LYS:NZ	1:L:251:ILE:HD12	2.14	0.63
1:C:248:LYS:NZ	1:C:251:ILE:HD12	2.14	0.63
1:J:37:ARG:HH21	1:J:37:ARG:CB	2.10	0.63
1:K:413:LYS:HA	1:K:416:ALA:CB	2.28	0.63
1:D:413:LYS:HA	1:D:416:ALA:CB	2.28	0.63
1:L:71:MET:HE1	1:L:115:VAL:HB	1.79	0.63
1:F:166:ASP:CG	1:F:168:SER:HB3	2.19	0.63
1:I:166:ASP:CG	1:I:168:SER:HB3	2.19	0.63
1:E:166:ASP:CG	1:E:168:SER:HB3	2.19	0.63
1:L:166:ASP:OD2	1:L:168:SER:HB3	1.97	0.63
1:G:12:LEU:O	1:G:16:ASP:HB2	1.99	0.63
1:I:12:LEU:O	1:I:16:ASP:HB2	1.99	0.63
1:G:264:ILE:O	1:G:265:LYS:HD3	1.98	0.63
1:A:89:ASP:CA	1:B:561:ASP:HB2	2.27	0.63
1:J:511:ARG:HA	1:J:513:ARG:CD	2.28	0.63
1:L:37:ARG:CB	1:L:37:ARG:HH21	2.11	0.63
1:A:37:ARG:HH21	1:A:37:ARG:CB	2.11	0.63
1:I:24:GLU:C	1:I:26:ARG:H	2.01	0.63
1:E:24:GLU:C	1:E:26:ARG:H	2.01	0.63
1:C:209:PHE:HA	1:C:211:TRP:NE1	2.13	0.63
1:G:413:LYS:HA	1:G:416:ALA:CB	2.28	0.63
1:A:400:ALA:HB3	1:B:395:PRO:HB2	1.80	0.63
1:C:66:LYS:HZ3	1:C:420:VAL:CG2	2.09	0.63
1:I:66:LYS:HZ3	1:I:420:VAL:CG2	2.10	0.63
1:J:66:LYS:HZ1	1:J:420:VAL:CG1	2.10	0.63
1:L:303:VAL:HA	1:L:439:ASN:ND2	2.14	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:411:ALA:HB1	1:C:57:PHE:HD1	1.63	0.63
1:J:444:LEU:O	1:J:448:VAL:HG23	1.98	0.63
1:C:444:LEU:O	1:C:448:VAL:HG23	1.98	0.63
1:A:41:TRP:HE3	1:A:42:ASP:O	1.82	0.63
1:G:248:LYS:NZ	1:G:251:ILE:HD12	2.14	0.63
1:D:138:THR:H	1:D:143:VAL:CG2	2.10	0.63
1:L:413:LYS:HA	1:L:416:ALA:CB	2.28	0.63
1:A:303:VAL:HA	1:A:439:ASN:ND2	2.14	0.63
1:G:166:ASP:CG	1:G:168:SER:HB3	2.19	0.63
1:B:166:ASP:OD2	1:B:168:SER:HB3	1.97	0.63
1:E:12:LEU:O	1:E:16:ASP:HB2	1.99	0.63
1:G:24:GLU:C	1:G:26:ARG:H	2.01	0.63
1:I:37:ARG:HH21	1:I:37:ARG:CB	2.11	0.63
1:B:264:ILE:O	1:B:265:LYS:HD3	1.98	0.63
1:F:413:LYS:HA	1:F:416:ALA:CB	2.28	0.63
1:I:413:LYS:HA	1:I:416:ALA:CB	2.28	0.63
1:A:603:GLN:O	1:A:607:ALA:N	2.31	0.63
1:A:166:ASP:OD2	1:A:168:SER:HB3	1.97	0.63
1:I:603:GLN:O	1:I:607:ALA:N	2.31	0.63
1:K:12:LEU:O	1:K:16:ASP:HB2	1.99	0.63
1:K:248:LYS:NZ	1:K:251:ILE:HD12	2.14	0.63
1:A:248:LYS:NZ	1:A:251:ILE:HD12	2.14	0.63
1:E:236:GLN:CB	1:E:265:LYS:HZ3	2.09	0.63
1:I:41:TRP:HE3	1:I:42:ASP:O	1.82	0.63
1:D:209:PHE:HA	1:D:211:TRP:NE1	2.13	0.63
1:A:400:ALA:HB2	1:B:395:PRO:HB2	1.79	0.63
1:H:303:VAL:HA	1:H:439:ASN:ND2	2.14	0.63
1:G:303:VAL:HA	1:G:439:ASN:ND2	2.14	0.63
1:B:303:VAL:HA	1:B:439:ASN:ND2	2.14	0.63
1:K:166:ASP:CG	1:K:168:SER:HB3	2.19	0.63
1:J:12:LEU:O	1:J:16:ASP:HB2	1.99	0.63
1:F:12:LEU:O	1:F:16:ASP:HB2	1.99	0.63
1:H:12:LEU:O	1:H:16:ASP:HB2	1.99	0.63
1:C:603:GLN:O	1:C:607:ALA:N	2.31	0.63
1:F:557:PHE:CE2	1:G:563:LYS:HD3	2.33	0.63
1:D:554:LEU:HD22	1:E:567:MET:CE	2.29	0.63
1:A:511:ARG:HA	1:A:513:ARG:CD	2.28	0.63
1:A:209:PHE:HA	1:A:211:TRP:NE1	2.13	0.63
1:A:413:LYS:HA	1:A:416:ALA:CB	2.28	0.63
1:F:282:THR:HG23	1:F:287:LEU:HD11	1.81	0.63
1:J:303:VAL:HA	1:J:439:ASN:ND2	2.14	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:12:LEU:O	1:L:16:ASP:HB2	1.99	0.63
1:C:306:GLU:O	1:C:316:TYR:HA	1.99	0.63
1:J:306:GLU:O	1:J:316:TYR:HA	1.99	0.63
1:D:306:GLU:O	1:D:316:TYR:HA	1.99	0.63
1:C:12:LEU:O	1:C:16:ASP:HB2	1.99	0.63
1:B:248:LYS:NZ	1:B:251:ILE:HD12	2.14	0.63
1:L:511:ARG:HA	1:L:513:ARG:CD	2.28	0.63
1:G:37:ARG:HH21	1:G:37:ARG:CB	2.11	0.63
1:B:37:ARG:CB	1:B:37:ARG:HH21	2.11	0.63
1:F:248:LYS:NZ	1:F:251:ILE:HD12	2.14	0.63
1:C:138:THR:H	1:C:143:VAL:CG2	2.10	0.63
1:E:166:ASP:OD2	1:E:168:SER:HB3	1.97	0.63
1:I:306:GLU:O	1:I:316:TYR:HA	1.99	0.63
1:J:603:GLN:O	1:J:607:ALA:N	2.31	0.63
1:E:306:GLU:O	1:E:316:TYR:HA	1.99	0.63
1:B:511:ARG:HA	1:B:513:ARG:CD	2.27	0.62
1:D:248:LYS:HZ2	1:D:251:ILE:HD12	1.64	0.62
1:I:248:LYS:NZ	1:I:251:ILE:HD12	2.14	0.62
1:I:511:ARG:HA	1:I:513:ARG:CD	2.28	0.62
1:B:34:PHE:CZ	1:B:328:ARG:NH2	2.62	0.62
1:D:24:GLU:C	1:D:26:ARG:H	2.01	0.62
1:F:138:THR:H	1:F:143:VAL:CG2	2.10	0.62
1:L:306:GLU:O	1:L:316:TYR:HA	1.99	0.62
1:C:303:VAL:HA	1:C:439:ASN:ND2	2.14	0.62
1:C:345:PRO:HB3	1:D:372:TYR:OH	1.99	0.62
1:C:166:ASP:CG	1:C:168:SER:HB3	2.19	0.62
1:B:12:LEU:O	1:B:16:ASP:HB2	1.99	0.62
1:K:306:GLU:O	1:K:316:TYR:HA	1.99	0.62
1:D:603:GLN:O	1:D:607:ALA:N	2.31	0.62
1:A:24:GLU:C	1:A:26:ARG:H	2.01	0.62
1:J:434:THR:HG21	1:K:72:ARG:CG	2.28	0.62
1:J:248:LYS:NZ	1:J:251:ILE:HD12	2.14	0.62
1:E:413:LYS:HA	1:E:416:ALA:CB	2.28	0.62
1:K:82:PRO:HG2	1:L:560:LEU:HD22	1.81	0.62
1:H:66:LYS:HZ3	1:H:420:VAL:CG2	2.12	0.62
1:E:66:LYS:HZ3	1:E:420:VAL:HG11	1.64	0.62
1:F:390:ALA:CB	1:G:387:GLN:HB2	2.29	0.62
1:F:444:LEU:O	1:F:448:VAL:HG23	1.98	0.62
1:C:158:TRP:HB3	1:C:173:CYS:CA	2.30	0.62
1:F:158:TRP:HB3	1:F:173:CYS:CA	2.30	0.62
1:D:282:THR:HG23	1:D:287:LEU:HD11	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:282:THR:HG23	1:K:287:LEU:HD11	1.81	0.62
1:L:166:ASP:CG	1:L:168:SER:HB3	2.19	0.62
1:D:12:LEU:O	1:D:16:ASP:HB2	1.99	0.62
1:A:12:LEU:O	1:A:16:ASP:HB2	1.99	0.62
1:C:410:SER:O	1:C:414:GLU:HG2	2.00	0.62
1:K:511:ARG:HA	1:K:513:ARG:CD	2.28	0.62
1:F:44:TRP:C	1:F:45:LEU:HD22	2.20	0.62
1:F:66:LYS:HZ3	1:F:420:VAL:CG1	2.12	0.62
1:E:434:THR:HG21	1:F:72:ARG:HG2	1.81	0.62
1:K:303:VAL:HA	1:K:439:ASN:ND2	2.14	0.62
1:B:306:GLU:O	1:B:316:TYR:HA	1.99	0.62
1:B:398:PRO:HB3	1:C:395:PRO:HD2	1.81	0.62
1:I:264:ILE:O	1:I:265:LYS:HD3	1.98	0.62
1:J:34:PHE:CZ	1:J:328:ARG:NH2	2.62	0.62
1:L:44:TRP:C	1:L:45:LEU:HD22	2.20	0.62
1:D:37:ARG:HH21	1:D:37:ARG:CB	2.11	0.62
1:K:44:TRP:C	1:K:45:LEU:HD22	2.20	0.62
1:E:44:TRP:C	1:E:45:LEU:HD22	2.20	0.62
1:I:282:THR:HG23	1:I:287:LEU:HD11	1.81	0.62
1:I:303:VAL:HA	1:I:439:ASN:ND2	2.14	0.62
1:F:303:VAL:HA	1:F:439:ASN:ND2	2.14	0.62
1:D:166:ASP:CG	1:D:168:SER:HB3	2.19	0.62
1:D:44:TRP:C	1:D:45:LEU:HD22	2.20	0.62
1:I:44:TRP:C	1:I:45:LEU:HD22	2.20	0.62
1:L:24:GLU:C	1:L:26:ARG:H	2.01	0.62
1:C:413:LYS:HA	1:C:416:ALA:CB	2.28	0.62
1:H:410:SER:O	1:H:414:GLU:HG2	2.00	0.62
1:E:66:LYS:HZ3	1:E:420:VAL:CG2	2.12	0.62
1:L:282:THR:HG23	1:L:287:LEU:HD11	1.81	0.62
1:F:349:PRO:HB2	1:F:351:PHE:CE2	2.35	0.62
1:G:349:PRO:HB2	1:G:351:PHE:CE2	2.35	0.62
1:K:410:SER:O	1:K:414:GLU:HG2	2.00	0.62
1:B:44:TRP:C	1:B:45:LEU:HD22	2.20	0.62
1:L:158:TRP:HB3	1:L:173:CYS:CA	2.30	0.62
1:J:282:THR:HG23	1:J:287:LEU:HD11	1.81	0.62
1:J:166:ASP:CG	1:J:168:SER:HB3	2.19	0.62
1:A:166:ASP:CG	1:A:168:SER:HB3	2.19	0.62
1:A:306:GLU:O	1:A:316:TYR:HA	1.99	0.62
1:D:349:PRO:HB2	1:D:351:PHE:CE2	2.35	0.62
1:J:24:GLU:C	1:J:26:ARG:H	2.01	0.62
1:D:248:LYS:NZ	1:D:251:ILE:HD12	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:248:LYS:NZ	1:H:251:ILE:HD12	2.14	0.62
1:A:44:TRP:C	1:A:45:LEU:HD22	2.20	0.62
1:G:158:TRP:HB3	1:G:173:CYS:CA	2.30	0.62
1:G:400:ALA:CB	1:H:395:PRO:HB2	2.29	0.62
1:E:282:THR:HG23	1:E:287:LEU:HD11	1.81	0.62
1:A:282:THR:HG23	1:A:287:LEU:HD11	1.81	0.62
1:J:5:GLU:HG2	1:J:6:ASN:N	2.15	0.62
1:G:5:GLU:HG2	1:G:6:ASN:N	2.15	0.62
1:D:303:VAL:HA	1:D:439:ASN:ND2	2.14	0.62
1:B:603:GLN:O	1:B:607:ALA:N	2.31	0.62
1:B:24:GLU:C	1:B:26:ARG:H	2.01	0.62
1:J:138:THR:H	1:J:143:VAL:CG2	2.10	0.62
1:B:158:TRP:HB3	1:B:173:CYS:CA	2.30	0.62
1:H:158:TRP:HB3	1:H:173:CYS:CA	2.30	0.62
1:C:457:MET:O	1:C:457:MET:HG3	2.00	0.62
1:H:603:GLN:O	1:H:607:ALA:N	2.31	0.62
1:H:37:ARG:HH21	1:H:37:ARG:CB	2.11	0.62
1:G:511:ARG:HA	1:G:513:ARG:CD	2.28	0.62
1:D:101:ASP:HB3	1:D:143:VAL:HG13	1.82	0.62
1:E:158:TRP:HB3	1:E:173:CYS:CA	2.30	0.62
1:I:349:PRO:HB2	1:I:351:PHE:CE2	2.35	0.62
1:J:123:VAL:HG21	1:J:153:CYS:HB3	1.82	0.62
1:J:306:GLU:OE2	1:K:65:ARG:HG2	2.00	0.62
1:H:306:GLU:O	1:H:316:TYR:HA	1.99	0.62
1:K:370:PRO:HB2	1:K:371:TYR:CD1	2.35	0.62
1:I:309:PHE:HB2	1:J:150:HIS:ND1	2.15	0.62
1:C:41:TRP:HE3	1:C:42:ASP:O	1.82	0.61
1:K:101:ASP:HB3	1:K:143:VAL:HG13	1.82	0.61
1:J:158:TRP:HB3	1:J:173:CYS:CA	2.30	0.61
1:A:352:TRP:CD1	1:B:374:LEU:O	2.52	0.61
1:K:349:PRO:HB2	1:K:351:PHE:CE2	2.35	0.61
1:C:5:GLU:HG2	1:C:6:ASN:N	2.15	0.61
1:E:123:VAL:HG21	1:E:153:CYS:HB3	1.82	0.61
1:E:603:GLN:O	1:E:607:ALA:N	2.31	0.61
1:C:370:PRO:HB2	1:C:371:TYR:CD1	2.35	0.61
1:B:230:GLU:HG3	1:B:231:THR:N	2.15	0.61
1:C:230:GLU:HG3	1:C:231:THR:N	2.15	0.61
1:E:410:SER:O	1:E:414:GLU:HG2	2.00	0.61
1:H:370:PRO:HB2	1:H:371:TYR:CD1	2.35	0.61
1:D:410:SER:O	1:D:414:GLU:HG2	2.00	0.61
1:J:44:TRP:C	1:J:45:LEU:HD22	2.20	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:400:ALA:HB3	1:H:395:PRO:HB2	1.80	0.61
1:G:282:THR:HG23	1:G:287:LEU:HD11	1.81	0.61
1:J:349:PRO:HB2	1:J:351:PHE:CE2	2.35	0.61
1:B:349:PRO:HB2	1:B:351:PHE:CE2	2.35	0.61
1:A:349:PRO:HB2	1:A:351:PHE:CE2	2.35	0.61
1:E:5:GLU:HG2	1:E:6:ASN:N	2.15	0.61
1:I:457:MET:HG3	1:I:457:MET:O	2.00	0.61
1:L:457:MET:HG3	1:L:457:MET:O	2.00	0.61
1:G:457:MET:O	1:G:457:MET:HG3	2.00	0.61
1:J:230:GLU:HG3	1:J:231:THR:N	2.15	0.61
1:A:370:PRO:HB2	1:A:371:TYR:CD1	2.35	0.61
1:E:248:LYS:NZ	1:E:251:ILE:HD12	2.14	0.61
1:F:37:ARG:HH21	1:F:37:ARG:CB	2.11	0.61
1:D:586:THR:N	1:D:587:PRO:HD3	2.16	0.61
1:B:370:PRO:HB2	1:B:371:TYR:CD1	2.35	0.61
1:C:349:PRO:HB2	1:C:351:PHE:CE2	2.35	0.61
1:D:5:GLU:HG2	1:D:6:ASN:N	2.15	0.61
1:C:123:VAL:HG21	1:C:153:CYS:HB3	1.83	0.61
1:E:303:VAL:HA	1:E:439:ASN:ND2	2.14	0.61
1:I:370:PRO:HB2	1:I:371:TYR:CD1	2.35	0.61
1:H:230:GLU:HG3	1:H:231:THR:N	2.15	0.61
1:L:248:LYS:HZ2	1:L:251:ILE:HD12	1.66	0.61
1:G:41:TRP:HE3	1:G:42:ASP:O	1.82	0.61
1:C:511:ARG:HA	1:C:513:ARG:CD	2.28	0.61
1:C:44:TRP:C	1:C:45:LEU:HD22	2.20	0.61
1:B:41:TRP:CD2	1:B:42:ASP:N	2.69	0.61
1:L:586:THR:N	1:L:587:PRO:HD3	2.16	0.61
1:K:66:LYS:HZ3	1:K:420:VAL:CG2	2.12	0.61
1:D:66:LYS:HZ3	1:D:420:VAL:CG2	2.13	0.61
1:F:410:SER:O	1:F:414:GLU:HG2	2.00	0.61
1:H:5:GLU:HG2	1:H:6:ASN:N	2.15	0.61
1:L:123:VAL:HG21	1:L:153:CYS:HB3	1.82	0.61
1:B:123:VAL:HG21	1:B:153:CYS:HB3	1.82	0.61
1:F:123:VAL:HG21	1:F:153:CYS:HB3	1.82	0.61
1:E:230:GLU:HG3	1:E:231:THR:N	2.15	0.61
1:D:457:MET:O	1:D:457:MET:HG3	2.00	0.61
1:G:306:GLU:O	1:G:316:TYR:HA	1.99	0.61
1:F:230:GLU:HG3	1:F:231:THR:N	2.15	0.61
1:B:273:ARG:O	1:B:274:ARG:CB	2.49	0.61
1:K:41:TRP:HE3	1:K:42:ASP:O	1.82	0.61
1:F:511:ARG:HA	1:F:513:ARG:CD	2.28	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:586:THR:N	1:E:587:PRO:HD3	2.16	0.61
1:H:101:ASP:HB3	1:H:143:VAL:HG13	1.82	0.61
1:K:158:TRP:HB3	1:K:173:CYS:CA	2.30	0.61
1:B:282:THR:HG23	1:B:287:LEU:HD11	1.81	0.61
1:G:410:SER:O	1:G:414:GLU:HG2	2.00	0.61
1:L:5:GLU:HG2	1:L:6:ASN:N	2.15	0.61
1:E:370:PRO:HB2	1:E:371:TYR:CD1	2.35	0.61
1:F:457:MET:O	1:F:457:MET:HG3	2.00	0.61
1:I:273:ARG:O	1:I:274:ARG:CB	2.49	0.61
1:E:89:ASP:HA	1:F:561:ASP:CB	2.29	0.61
1:J:41:TRP:CD2	1:J:42:ASP:N	2.69	0.61
1:A:34:PHE:CZ	1:A:328:ARG:NH2	2.62	0.61
1:K:41:TRP:CD2	1:K:42:ASP:N	2.69	0.61
1:I:586:THR:N	1:I:587:PRO:HD3	2.16	0.61
1:H:101:ASP:OD1	1:H:138:THR:HG21	2.01	0.61
1:H:66:LYS:HZ3	1:H:420:VAL:HG11	1.63	0.61
1:G:230:GLU:HG3	1:G:231:THR:N	2.15	0.61
1:B:457:MET:O	1:B:457:MET:HG3	2.00	0.61
1:A:56:GLN:N	1:L:325:ASP:OD2	2.34	0.61
1:C:41:TRP:CD2	1:C:42:ASP:N	2.69	0.61
1:I:41:TRP:CD2	1:I:42:ASP:N	2.69	0.61
1:K:24:GLU:C	1:K:26:ARG:H	2.01	0.61
1:J:101:ASP:OD1	1:J:138:THR:HG21	2.01	0.61
1:J:101:ASP:HB3	1:J:143:VAL:HG13	1.82	0.61
1:C:586:THR:N	1:C:587:PRO:HD3	2.16	0.61
1:B:101:ASP:OD1	1:B:138:THR:HG21	2.01	0.61
1:L:410:SER:O	1:L:414:GLU:HG2	2.00	0.61
1:C:398:PRO:HB3	1:D:395:PRO:HD2	1.83	0.61
1:L:349:PRO:HB2	1:L:351:PHE:CE2	2.35	0.61
1:D:123:VAL:HG21	1:D:153:CYS:HB3	1.82	0.61
1:G:123:VAL:HG21	1:G:153:CYS:HB3	1.82	0.61
1:J:410:SER:O	1:J:414:GLU:HG2	2.00	0.61
1:A:306:GLU:OE2	1:B:65:ARG:HG2	2.00	0.61
1:F:306:GLU:O	1:F:316:TYR:HA	1.99	0.61
1:G:603:GLN:O	1:G:607:ALA:N	2.31	0.61
1:A:457:MET:O	1:A:457:MET:HG3	2.00	0.61
1:H:532:ARG:HH22	1:H:560:LEU:HD12	1.66	0.61
1:I:532:ARG:HH22	1:I:560:LEU:HD12	1.66	0.61
1:C:546:THR:HG23	1:C:547:PRO:CD	2.29	0.61
1:K:273:ARG:O	1:K:274:ARG:CB	2.49	0.61
1:G:44:TRP:C	1:G:45:LEU:HD22	2.20	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:37:ARG:CB	1:C:37:ARG:HH21	2.10	0.61
1:D:309:PHE:HB2	1:E:150:HIS:CB	2.30	0.61
1:J:586:THR:N	1:J:587:PRO:HD3	2.16	0.61
1:G:101:ASP:OD1	1:G:138:THR:HG21	2.01	0.61
1:B:410:SER:O	1:B:414:GLU:HG2	2.00	0.61
1:F:370:PRO:HB2	1:F:371:TYR:CD1	2.35	0.61
1:I:230:GLU:HG3	1:I:231:THR:N	2.15	0.61
1:E:511:ARG:HA	1:E:513:ARG:CD	2.28	0.61
1:H:273:ARG:O	1:H:274:ARG:CB	2.49	0.61
1:D:401:ASN:CG	1:E:341:VAL:HG13	2.22	0.61
1:H:44:TRP:C	1:H:45:LEU:HD22	2.20	0.61
1:A:41:TRP:CD2	1:A:42:ASP:N	2.69	0.61
1:H:586:THR:N	1:H:587:PRO:HD3	2.16	0.61
1:I:158:TRP:HB3	1:I:173:CYS:CA	2.30	0.61
1:L:532:ARG:HH22	1:L:560:LEU:HD12	1.66	0.61
1:H:282:THR:HG23	1:H:287:LEU:HD11	1.81	0.61
1:A:5:GLU:HG2	1:A:6:ASN:N	2.15	0.61
1:D:370:PRO:HB2	1:D:371:TYR:CD1	2.35	0.61
1:E:457:MET:HG3	1:E:457:MET:O	2.00	0.61
1:L:370:PRO:HB2	1:L:371:TYR:CD1	2.35	0.61
1:H:457:MET:O	1:H:457:MET:HG3	2.00	0.61
1:C:322:LEU:HD11	1:D:58:ASP:OD2	1.96	0.61
1:C:273:ARG:O	1:C:274:ARG:CB	2.49	0.61
1:K:539:LEU:HD21	1:K:551:LEU:HB3	1.83	0.61
1:E:101:ASP:OD1	1:E:138:THR:HG21	2.01	0.61
1:C:101:ASP:HB3	1:C:143:VAL:HG13	1.83	0.61
1:L:101:ASP:HB3	1:L:143:VAL:HG13	1.83	0.61
1:A:66:LYS:HZ1	1:A:420:VAL:HG11	1.64	0.61
1:E:349:PRO:HB2	1:E:351:PHE:CE2	2.35	0.61
1:F:539:LEU:HD21	1:F:551:LEU:HB3	1.83	0.60
1:B:138:THR:H	1:B:143:VAL:CG2	2.10	0.60
1:G:586:THR:N	1:G:587:PRO:HD3	2.16	0.60
1:D:532:ARG:HH22	1:D:560:LEU:HD12	1.66	0.60
1:C:282:THR:HG23	1:C:287:LEU:HD11	1.81	0.60
1:K:123:VAL:HG21	1:K:153:CYS:HB3	1.82	0.60
1:E:350:PHE:HE1	1:F:363:TYR:HE1	1.48	0.60
1:E:532:ARG:HH22	1:E:560:LEU:HD12	1.66	0.60
1:D:82:PRO:CG	1:E:560:LEU:HD22	2.22	0.60
1:F:101:ASP:OD1	1:F:138:THR:HG21	2.01	0.60
1:E:101:ASP:HB3	1:E:143:VAL:HG13	1.82	0.60
1:A:158:TRP:HB3	1:A:173:CYS:CA	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:349:PRO:HB2	1:H:351:PHE:CE2	2.35	0.60
1:F:5:GLU:HG2	1:F:6:ASN:N	2.15	0.60
1:J:370:PRO:HB2	1:J:371:TYR:CD1	2.35	0.60
1:B:539:LEU:HD21	1:B:551:LEU:HB3	1.83	0.60
1:L:41:TRP:CD2	1:L:42:ASP:N	2.69	0.60
1:G:273:ARG:O	1:G:274:ARG:CB	2.49	0.60
1:A:586:THR:N	1:A:587:PRO:HD3	2.16	0.60
1:A:101:ASP:HB3	1:A:143:VAL:HG13	1.82	0.60
1:H:539:LEU:HD21	1:H:551:LEU:HB3	1.83	0.60
1:G:539:LEU:HD21	1:G:551:LEU:HB3	1.83	0.60
1:B:5:GLU:HG2	1:B:6:ASN:N	2.15	0.60
1:I:5:GLU:HG2	1:I:6:ASN:N	2.15	0.60
1:C:350:PHE:HE1	1:D:363:TYR:HE1	1.49	0.60
1:A:532:ARG:HH22	1:A:560:LEU:HD12	1.66	0.60
1:H:511:ARG:HA	1:H:513:ARG:CD	2.28	0.60
1:F:41:TRP:CD2	1:F:42:ASP:N	2.69	0.60
1:H:41:TRP:CD2	1:H:42:ASP:N	2.69	0.60
1:I:101:ASP:OD1	1:I:138:THR:HG21	2.01	0.60
1:B:101:ASP:HB3	1:B:143:VAL:HG13	1.82	0.60
1:K:586:THR:N	1:K:587:PRO:HD3	2.16	0.60
1:K:5:GLU:HG2	1:K:6:ASN:N	2.15	0.60
1:I:410:SER:O	1:I:414:GLU:HG2	2.00	0.60
1:L:602:GLY:O	1:L:606:PRO:CB	2.50	0.60
1:F:350:PHE:HE1	1:G:363:TYR:HE1	1.50	0.60
1:G:370:PRO:HB2	1:G:371:TYR:CD1	2.35	0.60
1:J:457:MET:HG3	1:J:457:MET:O	2.00	0.60
1:K:230:GLU:HG3	1:K:231:THR:N	2.15	0.60
1:E:273:ARG:O	1:E:274:ARG:CB	2.49	0.60
1:I:546:THR:HG23	1:I:547:PRO:CD	2.29	0.60
1:B:41:TRP:HE3	1:B:42:ASP:O	1.82	0.60
1:F:273:ARG:O	1:F:274:ARG:CB	2.49	0.60
1:E:44:TRP:O	1:E:45:LEU:HD13	2.02	0.60
1:D:101:ASP:OD1	1:D:138:THR:HG21	2.01	0.60
1:F:101:ASP:HB3	1:F:143:VAL:HG13	1.82	0.60
1:K:457:MET:O	1:K:457:MET:HG3	2.00	0.60
1:J:532:ARG:HH22	1:J:560:LEU:HD12	1.66	0.60
1:L:273:ARG:O	1:L:274:ARG:CB	2.49	0.60
1:G:41:TRP:CD2	1:G:42:ASP:N	2.69	0.60
1:I:34:PHE:CZ	1:I:328:ARG:NH2	2.62	0.60
1:H:44:TRP:O	1:H:45:LEU:HD13	2.02	0.60
1:B:602:GLY:O	1:B:606:PRO:CB	2.50	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:602:GLY:O	1:K:606:PRO:CB	2.50	0.60
1:L:230:GLU:HG3	1:L:231:THR:N	2.15	0.60
1:A:230:GLU:HG3	1:A:231:THR:N	2.15	0.60
1:C:539:LEU:HD21	1:C:551:LEU:HB3	1.83	0.60
1:A:109:ILE:HG21	1:L:164:LEU:HB2	1.83	0.60
1:J:273:ARG:O	1:J:274:ARG:CB	2.49	0.60
1:L:328:ARG:HA	1:L:331:ASN:HD22	1.67	0.60
1:D:44:TRP:O	1:D:45:LEU:HD13	2.02	0.60
1:I:44:TRP:O	1:I:45:LEU:HD13	2.02	0.60
1:E:138:THR:H	1:E:143:VAL:CG2	2.10	0.60
1:F:586:THR:N	1:F:587:PRO:HD3	2.16	0.60
1:A:101:ASP:OD1	1:A:138:THR:HG21	2.01	0.60
1:G:138:THR:H	1:G:143:VAL:CG2	2.10	0.60
1:C:158:TRP:HD1	1:C:158:TRP:H	1.50	0.60
1:I:434:THR:HG21	1:J:72:ARG:CG	2.30	0.60
1:I:539:LEU:HD21	1:I:551:LEU:HB3	1.83	0.60
1:H:602:GLY:O	1:H:606:PRO:CB	2.50	0.60
1:D:41:TRP:CD2	1:D:42:ASP:N	2.69	0.60
1:A:44:TRP:O	1:A:45:LEU:HD13	2.02	0.60
1:E:328:ARG:HA	1:E:331:ASN:HD22	1.67	0.60
1:G:158:TRP:HD1	1:G:158:TRP:H	1.50	0.60
1:I:123:VAL:HG21	1:I:153:CYS:HB3	1.82	0.60
1:J:602:GLY:O	1:J:606:PRO:CB	2.50	0.60
1:E:602:GLY:O	1:E:606:PRO:CB	2.50	0.60
1:J:398:PRO:HB3	1:K:395:PRO:HD2	1.84	0.60
1:B:546:THR:HG23	1:B:547:PRO:CD	2.29	0.60
1:D:539:LEU:HD21	1:D:551:LEU:HB3	1.83	0.60
1:L:101:ASP:OD1	1:L:138:THR:HG21	2.01	0.60
1:L:138:THR:H	1:L:143:VAL:CG2	2.10	0.60
1:G:101:ASP:HB3	1:G:143:VAL:HG13	1.82	0.60
1:K:158:TRP:HD1	1:K:158:TRP:H	1.50	0.60
1:L:158:TRP:H	1:L:158:TRP:HD1	1.50	0.60
1:I:602:GLY:O	1:I:606:PRO:CB	2.50	0.60
1:C:602:GLY:O	1:C:606:PRO:CB	2.50	0.60
1:L:255:ILE:O	1:L:257:ASP:N	2.35	0.60
1:D:230:GLU:HG3	1:D:231:THR:N	2.15	0.60
1:E:539:LEU:HD21	1:E:551:LEU:HB3	1.83	0.60
1:G:44:TRP:O	1:G:45:LEU:HD13	2.02	0.60
1:A:273:ARG:O	1:A:274:ARG:CB	2.49	0.60
1:F:328:ARG:HA	1:F:331:ASN:HD22	1.67	0.60
1:F:41:TRP:HE3	1:F:42:ASP:O	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:328:ARG:HA	1:I:331:ASN:HD22	1.67	0.60
1:E:166:ASP:OD1	1:E:168:SER:HB3	2.02	0.60
1:D:602:GLY:O	1:D:606:PRO:CB	2.50	0.60
1:D:273:ARG:O	1:D:274:ARG:CB	2.49	0.59
1:I:273:ARG:O	1:I:274:ARG:HB2	2.02	0.59
1:D:41:TRP:HE3	1:D:42:ASP:O	1.82	0.59
1:C:101:ASP:OD1	1:C:138:THR:HG21	2.01	0.59
1:K:101:ASP:OD1	1:K:138:THR:HG21	2.01	0.59
1:K:138:THR:H	1:K:143:VAL:CG2	2.10	0.59
1:H:123:VAL:HG21	1:H:153:CYS:HB3	1.82	0.59
1:J:571:TYR:CZ	1:J:575:GLN:HG3	2.37	0.59
1:C:571:TYR:CZ	1:C:575:GLN:HG3	2.37	0.59
1:G:166:ASP:OD1	1:G:168:SER:HB3	2.02	0.59
1:F:602:GLY:O	1:F:606:PRO:CB	2.50	0.59
1:A:602:GLY:O	1:A:606:PRO:CB	2.50	0.59
1:A:255:ILE:O	1:A:257:ASP:N	2.35	0.59
1:H:165:MET:HG3	1:H:307:TRP:CE3	2.37	0.59
1:K:273:ARG:O	1:K:274:ARG:HB2	2.02	0.59
1:J:539:LEU:HD21	1:J:551:LEU:HB3	1.83	0.59
1:H:273:ARG:O	1:H:274:ARG:HB2	2.02	0.59
1:A:328:ARG:HA	1:A:331:ASN:HD22	1.67	0.59
1:E:34:PHE:CZ	1:E:328:ARG:NH2	2.62	0.59
1:I:101:ASP:HB3	1:I:143:VAL:HG13	1.82	0.59
1:B:586:THR:N	1:B:587:PRO:HD3	2.16	0.59
1:B:571:TYR:CZ	1:B:575:GLN:HG3	2.38	0.59
1:A:410:SER:O	1:A:414:GLU:HG2	2.00	0.59
1:K:255:ILE:O	1:K:257:ASP:N	2.35	0.59
1:K:532:ARG:HH22	1:K:560:LEU:HD12	1.66	0.59
1:C:165:MET:HG3	1:C:307:TRP:CE3	2.38	0.59
1:L:44:TRP:O	1:L:45:LEU:HD13	2.02	0.59
1:I:571:TYR:CZ	1:I:575:GLN:HG3	2.37	0.59
1:K:603:GLN:O	1:K:607:ALA:N	2.31	0.59
1:E:255:ILE:O	1:E:257:ASP:N	2.35	0.59
1:G:92:ASP:HB3	1:H:561:ASP:OD2	2.02	0.59
1:G:328:ARG:HA	1:G:331:ASN:HD22	1.67	0.59
1:D:165:MET:HG3	1:D:307:TRP:CE3	2.37	0.59
1:L:118:GLN:NE2	1:L:303:VAL:HB	2.18	0.59
1:D:571:TYR:CZ	1:D:575:GLN:HG3	2.37	0.59
1:K:571:TYR:CZ	1:K:575:GLN:HG3	2.38	0.59
1:L:166:ASP:OD1	1:L:168:SER:HB3	2.02	0.59
1:F:350:PHE:HA	1:G:372:TYR:O	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:328:ARG:HA	1:C:331:ASN:HD22	1.67	0.59
1:H:328:ARG:HA	1:H:331:ASN:HD22	1.67	0.59
1:K:27:ARG:CZ	1:L:211:TRP:HB3	2.32	0.59
1:I:165:MET:HG3	1:I:307:TRP:CE3	2.38	0.59
1:D:158:TRP:HB3	1:D:173:CYS:CA	2.30	0.59
1:B:66:LYS:HZ3	1:B:420:VAL:CG1	2.14	0.59
1:K:165:MET:HG3	1:K:307:TRP:CE3	2.38	0.59
1:F:118:GLN:NE2	1:F:303:VAL:HB	2.18	0.59
1:F:166:ASP:OD1	1:F:168:SER:HB3	2.02	0.59
1:A:166:ASP:OD1	1:A:168:SER:HB3	2.02	0.59
1:D:255:ILE:O	1:D:257:ASP:N	2.35	0.59
1:I:255:ILE:O	1:I:257:ASP:N	2.35	0.59
1:F:27:ARG:HB2	1:F:313:LYS:HE3	1.85	0.59
1:A:546:THR:HG23	1:A:547:PRO:CD	2.29	0.59
1:D:328:ARG:HA	1:D:331:ASN:HD22	1.67	0.59
1:B:328:ARG:HA	1:B:331:ASN:HD22	1.67	0.59
1:J:426:ASN:O	1:J:427:GLY:C	2.41	0.59
1:E:118:GLN:NE2	1:E:303:VAL:HB	2.18	0.59
1:L:571:TYR:CZ	1:L:575:GLN:HG3	2.38	0.59
1:E:411:ALA:HB1	1:F:57:PHE:HD1	1.66	0.59
1:F:44:TRP:O	1:F:45:LEU:HD13	2.02	0.59
1:L:27:ARG:HB2	1:L:313:LYS:HE3	1.85	0.59
1:E:27:ARG:HB2	1:E:313:LYS:HE3	1.85	0.59
1:B:27:ARG:HB2	1:B:313:LYS:HE3	1.85	0.59
1:B:66:LYS:HZ3	1:B:420:VAL:CG2	2.15	0.59
1:E:165:MET:HG3	1:E:307:TRP:CE3	2.38	0.59
1:C:118:GLN:NE2	1:C:303:VAL:HB	2.18	0.59
1:K:166:ASP:OD1	1:K:168:SER:HB3	2.02	0.59
1:G:255:ILE:O	1:G:257:ASP:N	2.35	0.59
1:H:322:LEU:HD11	1:I:58:ASP:OD2	1.96	0.59
1:A:539:LEU:HD21	1:A:551:LEU:HB3	1.83	0.59
1:G:532:ARG:HH22	1:G:560:LEU:HD12	1.66	0.59
1:D:273:ARG:O	1:D:274:ARG:HB2	2.02	0.59
1:C:273:ARG:O	1:C:274:ARG:HB2	2.02	0.59
1:E:41:TRP:HE3	1:E:42:ASP:O	1.82	0.59
1:K:27:ARG:HB2	1:K:313:LYS:HE3	1.85	0.59
1:B:138:THR:OG1	1:B:143:VAL:HA	2.03	0.59
1:G:426:ASN:O	1:G:427:GLY:C	2.41	0.59
1:G:138:THR:OG1	1:G:143:VAL:HA	2.03	0.59
1:A:158:TRP:HD1	1:A:158:TRP:H	1.50	0.59
1:B:165:MET:HG3	1:B:307:TRP:CE3	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:118:GLN:NE2	1:D:303:VAL:HB	2.18	0.59
1:G:571:TYR:CZ	1:G:575:GLN:HG3	2.37	0.59
1:J:118:GLN:NE2	1:J:303:VAL:HB	2.18	0.59
1:A:123:VAL:HG21	1:A:153:CYS:HB3	1.82	0.59
1:F:571:TYR:CZ	1:F:575:GLN:HG3	2.38	0.59
1:G:602:GLY:O	1:G:606:PRO:CB	2.50	0.59
1:J:255:ILE:O	1:J:257:ASP:N	2.35	0.59
1:J:165:MET:HG3	1:J:307:TRP:CE3	2.38	0.59
1:K:44:TRP:O	1:K:45:LEU:HD13	2.02	0.59
1:E:41:TRP:CD2	1:E:42:ASP:N	2.69	0.59
1:F:138:THR:OG1	1:F:143:VAL:HA	2.03	0.59
1:F:426:ASN:O	1:F:427:GLY:C	2.41	0.59
1:D:158:TRP:H	1:D:158:TRP:HD1	1.50	0.59
1:B:166:ASP:OD1	1:B:168:SER:HB3	2.02	0.59
1:C:352:TRP:HD1	1:D:374:LEU:O	1.86	0.59
1:F:255:ILE:O	1:F:257:ASP:N	2.35	0.59
1:B:255:ILE:O	1:B:257:ASP:N	2.35	0.59
1:B:532:ARG:HH22	1:B:560:LEU:HD12	1.66	0.59
1:J:44:TRP:O	1:J:45:LEU:HD13	2.02	0.59
1:H:27:ARG:HB2	1:H:313:LYS:HE3	1.85	0.59
1:H:138:THR:H	1:H:143:VAL:CG2	2.10	0.59
1:K:118:GLN:NE2	1:K:303:VAL:HB	2.18	0.59
1:H:118:GLN:NE2	1:H:303:VAL:HB	2.18	0.59
1:C:553:LEU:HB2	1:C:576:LEU:HD21	1.85	0.59
1:C:166:ASP:OD1	1:C:168:SER:HB3	2.02	0.59
1:E:231:THR:HG23	1:E:249:ARG:HE	1.68	0.59
1:H:255:ILE:O	1:H:257:ASP:N	2.35	0.59
1:J:27:ARG:HB2	1:J:313:LYS:HE3	1.85	0.58
1:L:539:LEU:HD21	1:L:551:LEU:HB3	1.83	0.58
1:F:532:ARG:HH22	1:F:560:LEU:HD12	1.66	0.58
1:F:273:ARG:O	1:F:274:ARG:HB2	2.02	0.58
1:I:138:THR:OG1	1:I:143:VAL:HA	2.03	0.58
1:B:426:ASN:O	1:B:427:GLY:C	2.41	0.58
1:J:158:TRP:H	1:J:158:TRP:HD1	1.50	0.58
1:B:118:GLN:NE2	1:B:303:VAL:HB	2.18	0.58
1:I:166:ASP:OD1	1:I:168:SER:HB3	2.02	0.58
1:J:231:THR:HG23	1:J:249:ARG:HE	1.68	0.58
1:C:255:ILE:O	1:C:257:ASP:N	2.35	0.58
1:D:347:LYS:HG3	1:D:392:TYR:O	2.04	0.58
1:J:41:TRP:HE3	1:J:42:ASP:O	1.82	0.58
1:J:138:THR:OG1	1:J:143:VAL:HA	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:426:ASN:O	1:L:427:GLY:C	2.41	0.58
1:H:138:THR:OG1	1:H:143:VAL:HA	2.03	0.58
1:I:426:ASN:O	1:I:427:GLY:C	2.41	0.58
1:A:165:MET:HG3	1:A:307:TRP:CE3	2.38	0.58
1:E:400:ALA:CB	1:F:395:PRO:HB2	2.33	0.58
1:K:347:LYS:HG3	1:K:392:TYR:O	2.04	0.58
1:J:166:ASP:OD1	1:J:168:SER:HB3	2.02	0.58
1:J:347:LYS:HG3	1:J:392:TYR:O	2.04	0.58
1:A:27:ARG:HD2	1:B:212:LEU:H	1.68	0.58
1:G:27:ARG:HB2	1:G:313:LYS:HE3	1.85	0.58
1:H:158:TRP:H	1:H:158:TRP:HD1	1.50	0.58
1:H:571:TYR:CZ	1:H:575:GLN:HG3	2.37	0.58
1:A:118:GLN:NE2	1:A:303:VAL:HB	2.18	0.58
1:H:166:ASP:OD1	1:H:168:SER:HB3	2.02	0.58
1:D:166:ASP:OD1	1:D:168:SER:HB3	2.02	0.58
1:D:231:THR:HG23	1:D:249:ARG:HE	1.68	0.58
1:A:346:LYS:HG3	1:B:367:ASP:OD1	2.02	0.58
1:A:78:VAL:HG12	1:A:79:LEU:H	1.68	0.58
1:E:273:ARG:O	1:E:274:ARG:HB2	2.02	0.58
1:B:44:TRP:O	1:B:45:LEU:HD13	2.02	0.58
1:K:328:ARG:HA	1:K:331:ASN:HD22	1.67	0.58
1:A:138:THR:OG1	1:A:143:VAL:HA	2.03	0.58
1:H:411:ALA:HB1	1:I:57:PHE:CD1	2.36	0.58
1:G:118:GLN:NE2	1:G:303:VAL:HB	2.18	0.58
1:A:571:TYR:CZ	1:A:575:GLN:HG3	2.38	0.58
1:G:347:LYS:HG3	1:G:392:TYR:O	2.04	0.58
1:F:27:ARG:CZ	1:G:211:TRP:CB	2.80	0.58
1:I:82:PRO:CG	1:J:560:LEU:HD22	2.21	0.58
1:L:165:MET:HG3	1:L:307:TRP:CE3	2.38	0.58
1:G:165:MET:HG3	1:G:307:TRP:CE3	2.38	0.58
1:I:78:VAL:HG12	1:I:79:LEU:H	1.68	0.58
1:C:532:ARG:HH22	1:C:560:LEU:HD12	1.66	0.58
1:K:37:ARG:HH21	1:K:37:ARG:CB	2.11	0.58
1:D:426:ASN:O	1:D:427:GLY:C	2.41	0.58
1:A:426:ASN:O	1:A:427:GLY:C	2.41	0.58
1:A:427:GLY:O	1:A:429:GLN:N	2.37	0.58
1:C:426:ASN:O	1:C:427:GLY:C	2.41	0.58
1:E:158:TRP:H	1:E:158:TRP:HD1	1.50	0.58
1:K:231:THR:HG23	1:K:249:ARG:HE	1.68	0.58
1:A:231:THR:HG23	1:A:249:ARG:HE	1.68	0.58
1:D:78:VAL:HG12	1:D:79:LEU:H	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:44:TRP:O	1:C:45:LEU:HD13	2.02	0.58
1:C:27:ARG:HB2	1:C:313:LYS:HE3	1.85	0.58
1:K:138:THR:OG1	1:K:143:VAL:HA	2.03	0.58
1:I:427:GLY:O	1:I:429:GLN:N	2.37	0.58
1:F:165:MET:HG3	1:F:307:TRP:CE3	2.38	0.58
1:E:571:TYR:CZ	1:E:575:GLN:HG3	2.38	0.58
1:H:231:THR:HG23	1:H:249:ARG:HE	1.68	0.58
1:F:231:THR:HG23	1:F:249:ARG:HE	1.68	0.58
1:D:270:GLN:O	1:D:271:ILE:HD13	2.04	0.58
1:I:347:LYS:HG3	1:I:392:TYR:O	2.04	0.58
1:L:347:LYS:HG3	1:L:392:TYR:O	2.04	0.58
1:F:232:ALA:O	1:F:233:PHE:HB2	2.04	0.58
1:J:232:ALA:O	1:J:233:PHE:HB2	2.04	0.58
1:B:270:GLN:O	1:B:271:ILE:HD13	2.04	0.58
1:C:434:THR:HG21	1:D:72:ARG:HG2	1.85	0.58
1:L:273:ARG:O	1:L:274:ARG:HB2	2.02	0.58
1:J:328:ARG:HA	1:J:331:ASN:HD22	1.67	0.58
1:K:426:ASN:O	1:K:427:GLY:C	2.41	0.58
1:G:427:GLY:O	1:G:429:GLN:N	2.37	0.58
1:B:427:GLY:O	1:B:429:GLN:N	2.37	0.58
1:A:347:LYS:HG3	1:A:392:TYR:O	2.04	0.58
1:F:158:TRP:H	1:F:158:TRP:HD1	1.50	0.58
1:C:347:LYS:HG3	1:C:392:TYR:O	2.04	0.58
1:H:347:LYS:HG3	1:H:392:TYR:O	2.04	0.58
1:H:270:GLN:O	1:H:271:ILE:HD13	2.04	0.58
1:E:270:GLN:O	1:E:271:ILE:HD13	2.04	0.58
1:C:535:ILE:CD1	1:C:554:LEU:HG	2.34	0.58
1:H:45:LEU:CD2	1:H:328:ARG:HH21	2.17	0.58
1:I:27:ARG:HB2	1:I:313:LYS:HE3	1.85	0.58
1:D:27:ARG:HB2	1:D:313:LYS:HE3	1.85	0.58
1:H:28:GLU:HB2	1:H:313:LYS:HZ2	1.69	0.58
1:C:427:GLY:O	1:C:429:GLN:N	2.37	0.58
1:H:535:ILE:CD1	1:H:554:LEU:HG	2.34	0.58
1:H:379:GLU:O	1:H:380:ASN:CB	2.52	0.58
1:K:553:LEU:HB2	1:K:576:LEU:HD21	1.85	0.58
1:L:553:LEU:HB2	1:L:576:LEU:HD21	1.85	0.58
1:K:312:ASP:OD2	1:L:178:SER:HB2	2.04	0.58
1:B:231:THR:HG23	1:B:249:ARG:HE	1.68	0.58
1:C:231:THR:HG23	1:C:249:ARG:HE	1.68	0.58
1:F:347:LYS:HG3	1:F:392:TYR:O	2.04	0.58
1:L:270:GLN:O	1:L:271:ILE:HD13	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:78:VAL:HG12	1:E:79:LEU:H	1.68	0.58
1:A:273:ARG:O	1:A:274:ARG:HB2	2.02	0.58
1:B:45:LEU:CD2	1:B:328:ARG:HH21	2.17	0.58
1:K:45:LEU:CD2	1:K:328:ARG:HH21	2.17	0.58
1:D:138:THR:OG1	1:D:143:VAL:HA	2.03	0.58
1:K:427:GLY:O	1:K:429:GLN:N	2.37	0.58
1:J:427:GLY:O	1:J:429:GLN:N	2.37	0.58
1:D:379:GLU:O	1:D:380:ASN:CB	2.52	0.58
1:B:379:GLU:O	1:B:380:ASN:CB	2.52	0.58
1:G:535:ILE:CD1	1:G:554:LEU:HG	2.34	0.58
1:H:354:GLU:OE2	1:I:376:ARG:NE	2.37	0.58
1:C:400:ALA:HB2	1:D:395:PRO:HB2	1.85	0.58
1:I:306:GLU:OE2	1:J:65:ARG:HG2	2.02	0.58
1:K:232:ALA:O	1:K:233:PHE:HB2	2.04	0.58
1:A:232:ALA:O	1:A:233:PHE:HB2	2.04	0.58
1:C:216:THR:HB	1:C:218:GLN:OE1	2.04	0.58
1:B:232:ALA:O	1:B:233:PHE:HB2	2.04	0.58
1:A:27:ARG:HB2	1:A:313:LYS:HE3	1.85	0.58
1:L:535:ILE:CD1	1:L:554:LEU:HG	2.34	0.58
1:B:273:ARG:O	1:B:274:ARG:HB2	2.02	0.58
1:F:45:LEU:CD2	1:F:328:ARG:HH21	2.17	0.58
1:C:138:THR:OG1	1:C:143:VAL:HA	2.03	0.58
1:I:231:THR:HG23	1:I:249:ARG:HE	1.68	0.58
1:F:270:GLN:O	1:F:271:ILE:HD13	2.04	0.58
1:A:270:GLN:O	1:A:271:ILE:HD13	2.04	0.58
1:K:216:THR:HB	1:K:218:GLN:OE1	2.04	0.58
1:B:248:LYS:HZ2	1:B:251:ILE:HD12	1.68	0.57
1:E:138:THR:OG1	1:E:143:VAL:HA	2.03	0.57
1:G:553:LEU:HB2	1:G:576:LEU:HD21	1.85	0.57
1:C:270:GLN:O	1:C:271:ILE:HD13	2.04	0.57
1:I:216:THR:HB	1:I:218:GLN:OE1	2.04	0.57
1:J:78:VAL:HG12	1:J:79:LEU:H	1.68	0.57
1:L:78:VAL:HG12	1:L:79:LEU:H	1.68	0.57
1:E:535:ILE:CD1	1:E:554:LEU:HG	2.34	0.57
1:J:45:LEU:CD2	1:J:328:ARG:HH21	2.17	0.57
1:C:379:GLU:O	1:C:380:ASN:CB	2.52	0.57
1:I:118:GLN:NE2	1:I:303:VAL:HB	2.18	0.57
1:B:553:LEU:HB2	1:B:576:LEU:HD21	1.86	0.57
1:E:232:ALA:O	1:E:233:PHE:HB2	2.04	0.57
1:H:216:THR:HB	1:H:218:GLN:OE1	2.04	0.57
1:I:232:ALA:O	1:I:233:PHE:HB2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:270:GLN:O	1:J:271:ILE:HD13	2.04	0.57
1:B:209:PHE:HA	1:B:211:TRP:CE2	2.40	0.57
1:D:352:TRP:HZ2	1:E:385:PRO:HG2	1.62	0.57
1:G:78:VAL:HG12	1:G:79:LEU:H	1.68	0.57
1:I:45:LEU:CD2	1:I:328:ARG:HH21	2.16	0.57
1:D:309:PHE:HB2	1:E:150:HIS:HB3	1.86	0.57
1:D:27:ARG:CZ	1:E:211:TRP:HB3	2.34	0.57
1:K:28:GLU:HB2	1:K:313:LYS:HZ2	1.68	0.57
1:L:209:PHE:HA	1:L:211:TRP:CE2	2.40	0.57
1:K:535:ILE:CD1	1:K:554:LEU:HG	2.34	0.57
1:E:101:ASP:HB3	1:E:138:THR:HG21	1.87	0.57
1:E:427:GLY:O	1:E:429:GLN:N	2.37	0.57
1:F:427:GLY:O	1:F:429:GLN:N	2.37	0.57
1:I:158:TRP:H	1:I:158:TRP:HD1	1.50	0.57
1:I:553:LEU:HB2	1:I:576:LEU:HD21	1.85	0.57
1:G:216:THR:HB	1:G:218:GLN:OE1	2.04	0.57
1:B:347:LYS:HG3	1:B:392:TYR:O	2.04	0.57
1:B:554:LEU:HD22	1:C:567:MET:CE	2.35	0.57
1:G:546:THR:HG23	1:G:547:PRO:CD	2.29	0.57
1:H:35:PHE:C	1:H:37:ARG:N	2.58	0.57
1:K:422:THR:HG22	1:K:425:VAL:HG22	1.87	0.57
1:G:422:THR:HG22	1:G:425:VAL:HG22	1.87	0.57
1:L:66:LYS:HZ1	1:L:420:VAL:HG11	1.68	0.57
1:L:379:GLU:O	1:L:380:ASN:CB	2.52	0.57
1:K:379:GLU:O	1:K:380:ASN:CB	2.52	0.57
1:F:553:LEU:HB2	1:F:576:LEU:HD21	1.86	0.57
1:I:270:GLN:O	1:I:271:ILE:HD13	2.04	0.57
1:A:216:THR:HB	1:A:218:GLN:OE1	2.04	0.57
1:G:209:PHE:HA	1:G:211:TRP:CE2	2.40	0.57
1:J:535:ILE:CD1	1:J:554:LEU:HG	2.34	0.57
1:B:35:PHE:C	1:B:37:ARG:N	2.58	0.57
1:G:273:ARG:O	1:G:274:ARG:HB2	2.02	0.57
1:E:209:PHE:HA	1:E:211:TRP:CE2	2.40	0.57
1:H:553:LEU:HB2	1:H:576:LEU:HD21	1.85	0.57
1:J:553:LEU:HB2	1:J:576:LEU:HD21	1.85	0.57
1:D:399:GLN:HB3	1:E:396:GLU:HA	1.87	0.57
1:F:92:ASP:HB3	1:G:561:ASP:OD2	2.05	0.57
1:A:11:ILE:HD12	1:A:285:ALA:CA	2.31	0.57
1:B:248:LYS:HD2	1:B:248:LYS:H	1.70	0.57
1:L:248:LYS:HD2	1:L:248:LYS:H	1.70	0.57
1:D:35:PHE:C	1:D:37:ARG:N	2.58	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:45:LEU:CD2	1:C:328:ARG:HH21	2.17	0.57
1:C:35:PHE:C	1:C:37:ARG:N	2.58	0.57
1:A:35:PHE:C	1:A:37:ARG:N	2.58	0.57
1:J:101:ASP:HB3	1:J:138:THR:HG21	1.87	0.57
1:I:209:PHE:HA	1:I:211:TRP:CE2	2.40	0.57
1:L:231:THR:HG23	1:L:249:ARG:HE	1.68	0.57
1:J:246:TYR:HE2	1:J:512:GLY:N	2.03	0.57
1:A:535:ILE:CD1	1:A:554:LEU:HG	2.34	0.57
1:K:440:MET:O	1:K:444:LEU:HD22	2.05	0.57
1:F:248:LYS:H	1:F:248:LYS:HD2	1.70	0.57
1:D:209:PHE:HA	1:D:211:TRP:CE2	2.40	0.57
1:D:101:ASP:HB3	1:D:138:THR:HG21	1.87	0.57
1:G:101:ASP:HB3	1:G:138:THR:HG21	1.87	0.57
1:H:427:GLY:O	1:H:429:GLN:N	2.37	0.57
1:B:422:THR:HG22	1:B:425:VAL:HG22	1.87	0.57
1:E:347:LYS:HG3	1:E:392:TYR:O	2.04	0.57
1:L:246:TYR:HE2	1:L:512:GLY:N	2.03	0.57
1:E:634:ILE:HA	1:E:637:ALA:HB3	1.87	0.57
1:H:232:ALA:O	1:H:233:PHE:HB2	2.04	0.57
1:F:535:ILE:CD1	1:F:554:LEU:HG	2.34	0.57
1:B:78:VAL:HG12	1:B:79:LEU:H	1.68	0.57
1:K:248:LYS:HD2	1:K:248:LYS:H	1.70	0.57
1:C:248:LYS:H	1:C:248:LYS:HD2	1.70	0.57
1:J:35:PHE:C	1:J:37:ARG:N	2.58	0.57
1:L:35:PHE:C	1:L:37:ARG:N	2.58	0.57
1:F:35:PHE:C	1:F:37:ARG:N	2.58	0.57
1:B:101:ASP:HB3	1:B:138:THR:HG21	1.87	0.57
1:J:422:THR:HG22	1:J:425:VAL:HG22	1.87	0.57
1:H:426:ASN:O	1:H:427:GLY:C	2.41	0.57
1:E:426:ASN:O	1:E:427:GLY:C	2.41	0.57
1:A:379:GLU:O	1:A:380:ASN:CB	2.52	0.57
1:F:216:THR:HB	1:F:218:GLN:OE1	2.04	0.57
1:L:232:ALA:O	1:L:233:PHE:HB2	2.04	0.57
1:F:634:ILE:HA	1:F:637:ALA:HB3	1.87	0.57
1:G:634:ILE:HA	1:G:637:ALA:HB3	1.87	0.57
1:A:634:ILE:HA	1:A:637:ALA:HB3	1.87	0.57
1:I:82:PRO:HD2	1:J:560:LEU:CD1	2.18	0.57
1:F:78:VAL:HG12	1:F:79:LEU:H	1.68	0.57
1:J:440:MET:O	1:J:444:LEU:HD22	2.05	0.57
1:C:78:VAL:HG12	1:C:79:LEU:H	1.69	0.57
1:D:353:PRO:HD3	1:E:374:LEU:O	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:440:MET:O	1:E:444:LEU:HD22	2.05	0.57
1:B:535:ILE:CD1	1:B:554:LEU:HG	2.34	0.57
1:A:564:GLY:HA2	1:L:554:LEU:HD21	1.86	0.57
1:J:248:LYS:H	1:J:248:LYS:HD2	1.70	0.57
1:J:273:ARG:O	1:J:274:ARG:HB2	2.02	0.57
1:G:35:PHE:C	1:G:37:ARG:N	2.58	0.57
1:L:427:GLY:O	1:L:429:GLN:N	2.37	0.57
1:L:138:THR:OG1	1:L:143:VAL:HA	2.03	0.57
1:H:101:ASP:HB3	1:H:138:THR:HG21	1.87	0.57
1:G:539:LEU:HD21	1:G:551:LEU:CB	2.35	0.57
1:B:216:THR:HB	1:B:218:GLN:OE1	2.04	0.57
1:K:634:ILE:HA	1:K:637:ALA:HB3	1.87	0.57
1:B:634:ILE:HA	1:B:637:ALA:HB3	1.87	0.57
1:D:634:ILE:HA	1:D:637:ALA:HB3	1.87	0.57
1:B:643:ASN:O	1:B:647:ALA:N	2.36	0.57
1:L:440:MET:O	1:L:444:LEU:HD22	2.05	0.57
1:H:78:VAL:HG12	1:H:79:LEU:H	1.68	0.57
1:L:546:THR:HG23	1:L:547:PRO:CD	2.29	0.57
1:J:539:LEU:HD21	1:J:551:LEU:CB	2.35	0.57
1:K:101:ASP:HB3	1:K:138:THR:HG21	1.87	0.57
1:A:345:PRO:HB3	1:B:372:TYR:OH	2.05	0.57
1:G:66:LYS:HZ3	1:G:420:VAL:HG11	1.69	0.57
1:G:231:THR:HG23	1:G:249:ARG:HE	1.68	0.57
1:K:246:TYR:HE2	1:K:512:GLY:N	2.03	0.57
1:F:246:TYR:HE2	1:F:512:GLY:N	2.03	0.57
1:B:246:TYR:HE2	1:B:512:GLY:N	2.03	0.57
1:J:216:THR:HB	1:J:218:GLN:OE1	2.04	0.57
1:I:246:TYR:HE2	1:I:512:GLY:N	2.03	0.57
1:E:216:THR:HB	1:E:218:GLN:OE1	2.04	0.57
1:D:232:ALA:O	1:D:233:PHE:HB2	2.04	0.57
1:A:561:ASP:OD2	1:L:92:ASP:CB	2.47	0.56
1:C:539:LEU:HD21	1:C:551:LEU:CB	2.35	0.56
1:H:440:MET:O	1:H:444:LEU:HD22	2.05	0.56
1:I:440:MET:O	1:I:444:LEU:HD22	2.05	0.56
1:D:535:ILE:CD1	1:D:554:LEU:HG	2.34	0.56
1:F:546:THR:HG23	1:F:547:PRO:CD	2.29	0.56
1:H:209:PHE:HA	1:H:211:TRP:CE2	2.40	0.56
1:G:248:LYS:HD2	1:G:248:LYS:H	1.70	0.56
1:D:28:GLU:HB2	1:D:313:LYS:HZ2	1.70	0.56
1:A:101:ASP:HB3	1:A:138:THR:HG21	1.87	0.56
1:H:411:ALA:CB	1:I:57:PHE:CD1	2.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:539:LEU:HD21	1:I:551:LEU:CB	2.35	0.56
1:L:634:ILE:HA	1:L:637:ALA:HB3	1.87	0.56
1:A:84:ASP:OD1	1:B:526:SER:HB2	2.05	0.56
1:K:270:GLN:O	1:K:271:ILE:HD13	2.04	0.56
1:E:539:LEU:HD21	1:E:551:LEU:CB	2.35	0.56
1:L:539:LEU:HD21	1:L:551:LEU:CB	2.35	0.56
1:A:567:MET:CE	1:L:554:LEU:HD22	2.34	0.56
1:E:11:ILE:HD12	1:E:285:ALA:CA	2.31	0.56
1:I:35:PHE:C	1:I:37:ARG:N	2.58	0.56
1:K:35:PHE:C	1:K:37:ARG:N	2.58	0.56
1:E:35:PHE:C	1:E:37:ARG:N	2.58	0.56
1:I:27:ARG:HG2	1:J:212:LEU:HD13	1.87	0.56
1:E:379:GLU:O	1:E:380:ASN:CB	2.52	0.56
1:J:379:GLU:O	1:J:380:ASN:CB	2.52	0.56
1:I:535:ILE:CD1	1:I:554:LEU:HG	2.34	0.56
1:E:553:LEU:HB2	1:E:576:LEU:HD21	1.85	0.56
1:A:553:LEU:HB2	1:A:576:LEU:HD21	1.85	0.56
1:G:270:GLN:O	1:G:271:ILE:HD13	2.04	0.56
1:E:325:ASP:OD2	1:F:56:GLN:HB2	2.05	0.56
1:F:554:LEU:HD21	1:G:564:GLY:CA	2.28	0.56
1:C:440:MET:O	1:C:444:LEU:HD22	2.05	0.56
1:C:164:LEU:HA	1:C:307:TRP:HH2	1.70	0.56
1:A:440:MET:O	1:A:444:LEU:HD22	2.05	0.56
1:B:78:VAL:CG1	1:B:79:LEU:N	2.69	0.56
1:F:546:THR:O	1:F:550:GLN:OE1	2.24	0.56
1:I:248:LYS:H	1:I:248:LYS:HD2	1.70	0.56
1:A:248:LYS:H	1:A:248:LYS:HD2	1.70	0.56
1:H:248:LYS:HD2	1:H:248:LYS:H	1.70	0.56
1:F:209:PHE:HA	1:F:211:TRP:CE2	2.40	0.56
1:F:101:ASP:HB3	1:F:138:THR:HG21	1.87	0.56
1:I:101:ASP:HB3	1:I:138:THR:HG21	1.87	0.56
1:E:422:THR:HG22	1:E:425:VAL:HG22	1.87	0.56
1:E:380:ASN:O	1:E:381:SER:HB3	2.06	0.56
1:I:66:LYS:HZ3	1:I:420:VAL:HG11	1.68	0.56
1:F:66:LYS:HZ3	1:F:420:VAL:CG2	2.17	0.56
1:D:66:LYS:HZ3	1:D:420:VAL:CG1	2.17	0.56
1:D:71:MET:HE1	1:D:115:VAL:HB	1.88	0.56
1:D:553:LEU:HB2	1:D:576:LEU:HD21	1.86	0.56
1:K:411:ALA:CB	1:L:57:PHE:HD1	2.19	0.56
1:C:634:ILE:HA	1:C:637:ALA:HB3	1.87	0.56
1:G:232:ALA:O	1:G:233:PHE:HB2	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:634:ILE:HA	1:J:637:ALA:HB3	1.87	0.56
1:A:246:TYR:HE2	1:A:512:GLY:N	2.03	0.56
1:D:216:THR:HB	1:D:218:GLN:OE1	2.04	0.56
1:J:438:LEU:HD11	1:K:108:LYS:NZ	2.21	0.56
1:D:440:MET:O	1:D:444:LEU:HD22	2.05	0.56
1:K:209:PHE:HA	1:K:211:TRP:CE2	2.40	0.56
1:K:546:THR:O	1:K:550:GLN:OE1	2.24	0.56
1:L:45:LEU:CD2	1:L:328:ARG:HH21	2.17	0.56
1:C:209:PHE:HA	1:C:211:TRP:CE2	2.40	0.56
1:D:422:THR:HG22	1:D:425:VAL:HG22	1.87	0.56
1:F:422:THR:HG22	1:F:425:VAL:HG22	1.87	0.56
1:H:539:LEU:HD21	1:H:551:LEU:CB	2.35	0.56
1:D:404:MET:SD	1:E:337:ASN:HB2	2.44	0.56
1:G:246:TYR:HE2	1:G:512:GLY:N	2.03	0.56
1:H:246:TYR:HE2	1:H:512:GLY:N	2.03	0.56
1:L:216:THR:HB	1:L:218:GLN:OE1	2.04	0.56
1:F:440:MET:O	1:F:444:LEU:HD22	2.05	0.56
1:K:78:VAL:HG12	1:K:79:LEU:H	1.69	0.56
1:K:78:VAL:CG1	1:K:79:LEU:N	2.69	0.56
1:B:539:LEU:HD21	1:B:551:LEU:CB	2.35	0.56
1:I:24:GLU:C	1:I:26:ARG:N	2.59	0.56
1:E:27:ARG:HD2	1:F:212:LEU:H	1.70	0.56
1:D:427:GLY:O	1:D:429:GLN:N	2.37	0.56
1:F:164:LEU:HA	1:F:307:TRP:HH2	1.71	0.56
1:B:158:TRP:HD1	1:B:158:TRP:H	1.50	0.56
1:K:49:THR:CG2	1:K:49:THR:O	2.54	0.56
1:J:380:ASN:O	1:J:381:SER:HB3	2.06	0.56
1:J:411:ALA:HA	1:J:414:GLU:HG3	1.88	0.56
1:G:306:GLU:OE2	1:H:65:ARG:HG2	2.05	0.56
1:H:634:ILE:HA	1:H:637:ALA:HB3	1.87	0.56
1:C:78:VAL:CG1	1:C:79:LEU:N	2.69	0.56
1:H:92:ASP:HB3	1:I:561:ASP:OD2	2.06	0.56
1:H:164:LEU:HA	1:H:307:TRP:HH2	1.71	0.56
1:H:78:VAL:CG1	1:H:79:LEU:N	2.69	0.56
1:A:238:PRO:HG3	1:A:263:PHE:HB3	1.88	0.56
1:D:546:THR:HG23	1:D:547:PRO:CD	2.29	0.56
1:I:238:PRO:HG3	1:I:263:PHE:HB3	1.88	0.56
1:I:546:THR:O	1:I:550:GLN:OE1	2.24	0.56
1:I:28:GLU:HB2	1:I:313:LYS:HZ2	1.69	0.56
1:C:101:ASP:HB3	1:C:138:THR:HG21	1.87	0.56
1:I:422:THR:HG22	1:I:425:VAL:HG22	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:380:ASN:O	1:K:381:SER:HB3	2.06	0.56
1:G:380:ASN:O	1:G:381:SER:HB3	2.06	0.56
1:C:380:ASN:O	1:C:381:SER:HB3	2.06	0.56
1:F:337:ASN:ND2	1:F:401:ASN:HD22	2.04	0.56
1:C:232:ALA:O	1:C:233:PHE:HB2	2.04	0.56
1:F:325:ASP:OD2	1:G:56:GLN:HB2	2.05	0.56
1:H:236:GLN:CB	1:H:265:LYS:HG2	2.36	0.56
1:F:78:VAL:CG1	1:F:79:LEU:N	2.69	0.56
1:L:164:LEU:HA	1:L:307:TRP:HH2	1.71	0.56
1:C:238:PRO:HG3	1:C:263:PHE:HB3	1.88	0.56
1:L:546:THR:O	1:L:550:GLN:OE1	2.24	0.56
1:A:236:GLN:CB	1:A:265:LYS:HG2	2.36	0.56
1:B:236:GLN:CB	1:B:265:LYS:HG2	2.36	0.56
1:D:24:GLU:C	1:D:26:ARG:N	2.59	0.56
1:L:422:THR:HG22	1:L:425:VAL:HG22	1.87	0.56
1:A:422:THR:HG22	1:A:425:VAL:HG22	1.87	0.56
1:L:411:ALA:HA	1:L:414:GLU:HG3	1.88	0.56
1:B:380:ASN:O	1:B:381:SER:HB3	2.06	0.56
1:C:411:ALA:HA	1:C:414:GLU:HG3	1.88	0.56
1:E:411:ALA:HA	1:E:414:GLU:HG3	1.88	0.56
1:F:348:LYS:HB3	1:G:371:TYR:HA	1.86	0.56
1:K:77:ASP:HB2	1:K:523:SER:CB	2.36	0.56
1:F:77:ASP:HB2	1:F:523:SER:CB	2.36	0.56
1:E:78:VAL:CG1	1:E:79:LEU:N	2.69	0.56
1:D:238:PRO:HG3	1:D:263:PHE:HB3	1.88	0.56
1:D:144:ILE:HD12	1:D:145:ARG:N	2.21	0.56
1:L:101:ASP:HB3	1:L:138:THR:HG21	1.87	0.56
1:H:144:ILE:HD12	1:H:145:ARG:N	2.21	0.56
1:G:379:GLU:O	1:G:380:ASN:CB	2.52	0.56
1:E:164:LEU:HA	1:E:307:TRP:HH2	1.71	0.56
1:L:337:ASN:ND2	1:L:401:ASN:HD22	2.04	0.56
1:F:24:GLU:C	1:F:26:ARG:N	2.59	0.56
1:C:77:ASP:HB2	1:C:523:SER:CB	2.36	0.56
1:J:164:LEU:HA	1:J:307:TRP:HH2	1.71	0.56
1:G:45:LEU:CD2	1:G:328:ARG:HH21	2.17	0.56
1:E:236:GLN:CB	1:E:265:LYS:HG2	2.36	0.56
1:D:236:GLN:CB	1:D:265:LYS:HG2	2.36	0.56
1:J:209:PHE:HA	1:J:211:TRP:CE2	2.40	0.56
1:C:24:GLU:C	1:C:26:ARG:N	2.59	0.56
1:H:422:THR:HG22	1:H:425:VAL:HG22	1.87	0.56
1:D:49:THR:O	1:D:49:THR:CG2	2.54	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:380:ASN:O	1:L:381:SER:HB3	2.06	0.56
1:B:434:THR:HG21	1:C:72:ARG:HG2	1.87	0.56
1:K:164:LEU:HA	1:K:307:TRP:HH2	1.71	0.56
1:J:400:ALA:CB	1:K:395:PRO:HB2	2.36	0.56
1:D:246:TYR:HE2	1:D:512:GLY:N	2.03	0.56
1:J:77:ASP:HB2	1:J:523:SER:CB	2.36	0.56
1:G:77:ASP:HB2	1:G:523:SER:CB	2.36	0.56
1:G:236:GLN:CB	1:G:265:LYS:HG2	2.36	0.56
1:B:546:THR:O	1:B:550:GLN:OE1	2.24	0.56
1:D:411:ALA:HA	1:D:414:GLU:HG3	1.88	0.56
1:G:546:THR:O	1:G:550:GLN:OE1	2.24	0.56
1:D:539:LEU:HD21	1:D:551:LEU:CB	2.35	0.56
1:D:248:LYS:H	1:D:248:LYS:HD2	1.70	0.56
1:E:248:LYS:H	1:E:248:LYS:HD2	1.70	0.56
1:E:45:LEU:CD2	1:E:328:ARG:HH21	2.17	0.56
1:K:539:LEU:HD21	1:K:551:LEU:CB	2.35	0.56
1:F:49:THR:CG2	1:F:49:THR:O	2.54	0.56
1:E:49:THR:CG2	1:E:49:THR:O	2.54	0.56
1:G:49:THR:CG2	1:G:49:THR:O	2.54	0.56
1:K:66:LYS:HZ3	1:K:420:VAL:CG1	2.19	0.56
1:C:376:ARG:HG2	1:C:377:THR:HG23	1.88	0.56
1:K:71:MET:HE1	1:K:115:VAL:HB	1.86	0.56
1:B:411:ALA:HA	1:B:414:GLU:HG3	1.88	0.56
1:C:246:TYR:HE2	1:C:512:GLY:N	2.03	0.56
1:A:28:GLU:HB2	1:A:313:LYS:HZ2	1.71	0.55
1:A:77:ASP:HB2	1:A:523:SER:CB	2.36	0.55
1:A:108:LYS:HD2	1:L:438:LEU:HD11	1.87	0.55
1:A:78:VAL:CG1	1:A:79:LEU:N	2.69	0.55
1:A:546:THR:O	1:A:550:GLN:OE1	2.24	0.55
1:B:440:MET:O	1:B:444:LEU:HD22	2.05	0.55
1:J:24:GLU:C	1:J:26:ARG:N	2.59	0.55
1:I:78:VAL:CG1	1:I:79:LEU:N	2.69	0.55
1:L:535:ILE:HD11	1:L:554:LEU:HG	1.88	0.55
1:B:89:ASP:CA	1:C:561:ASP:HB2	2.34	0.55
1:L:41:TRP:HE3	1:L:42:ASP:O	1.82	0.55
1:H:248:LYS:HZ2	1:H:251:ILE:HD12	1.71	0.55
1:H:24:GLU:C	1:H:26:ARG:N	2.59	0.55
1:D:380:ASN:O	1:D:381:SER:HB3	2.06	0.55
1:G:158:TRP:HH2	1:G:302:PRO:HG3	1.71	0.55
1:F:379:GLU:O	1:F:380:ASN:CB	2.52	0.55
1:J:66:LYS:HZ1	1:J:420:VAL:CG2	2.18	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:337:ASN:ND2	1:H:401:ASN:HD22	2.04	0.55
1:F:643:ASN:O	1:F:647:ALA:N	2.36	0.55
1:A:643:ASN:O	1:A:647:ALA:N	2.36	0.55
1:A:539:LEU:HD21	1:A:551:LEU:CB	2.35	0.55
1:C:535:ILE:HD11	1:C:554:LEU:HG	1.89	0.55
1:H:77:ASP:HB2	1:H:523:SER:CB	2.36	0.55
1:K:236:GLN:CB	1:K:265:LYS:HG2	2.36	0.55
1:F:539:LEU:HD21	1:F:551:LEU:CB	2.35	0.55
1:L:78:VAL:CG1	1:L:79:LEU:N	2.69	0.55
1:E:376:ARG:HG2	1:E:377:THR:HG23	1.88	0.55
1:C:546:THR:O	1:C:550:GLN:OE1	2.24	0.55
1:C:236:GLN:CB	1:C:265:LYS:HG2	2.36	0.55
1:H:546:THR:O	1:H:550:GLN:OE1	2.24	0.55
1:F:236:GLN:CB	1:F:265:LYS:HG2	2.36	0.55
1:D:546:THR:O	1:D:550:GLN:OE1	2.24	0.55
1:G:24:GLU:C	1:G:26:ARG:N	2.59	0.55
1:B:11:ILE:HD12	1:B:285:ALA:CA	2.31	0.55
1:H:41:TRP:HE3	1:H:42:ASP:O	1.82	0.55
1:B:238:PRO:HG3	1:B:263:PHE:HB3	1.88	0.55
1:A:209:PHE:HA	1:A:211:TRP:CE2	2.40	0.55
1:L:144:ILE:HD12	1:L:145:ARG:N	2.21	0.55
1:I:164:LEU:HA	1:I:307:TRP:HH2	1.71	0.55
1:L:161:ASN:ND2	1:L:161:ASN:C	2.60	0.55
1:A:164:LEU:HA	1:A:307:TRP:HH2	1.71	0.55
1:G:411:ALA:HA	1:G:414:GLU:HG3	1.88	0.55
1:D:633:GLN:O	1:D:637:ALA:N	2.35	0.55
1:H:643:ASN:O	1:H:647:ALA:N	2.36	0.55
1:D:444:LEU:C	1:D:446:THR:N	2.60	0.55
1:A:444:LEU:C	1:A:446:THR:N	2.60	0.55
1:F:238:PRO:HG3	1:F:263:PHE:HB3	1.88	0.55
1:L:236:GLN:CB	1:L:265:LYS:HG2	2.36	0.55
1:K:24:GLU:C	1:K:26:ARG:N	2.59	0.55
1:E:144:ILE:HD12	1:E:145:ARG:N	2.21	0.55
1:K:161:ASN:ND2	1:K:161:ASN:C	2.60	0.55
1:E:161:ASN:ND2	1:E:161:ASN:C	2.60	0.55
1:H:376:ARG:HG2	1:H:377:THR:HG23	1.88	0.55
1:A:376:ARG:HG2	1:A:377:THR:HG23	1.88	0.55
1:B:164:LEU:HA	1:B:307:TRP:HH2	1.70	0.55
1:K:534:GLU:O	1:K:538:LEU:HD23	2.07	0.55
1:C:136:SER:N	1:C:137:PRO:HD3	2.21	0.55
1:G:534:GLU:O	1:G:538:LEU:HD23	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:77:ASP:HB2	1:D:523:SER:CB	2.36	0.55
1:E:546:THR:HG23	1:E:547:PRO:CD	2.29	0.55
1:E:546:THR:O	1:E:550:GLN:OE1	2.24	0.55
1:G:78:VAL:CG1	1:G:79:LEU:N	2.69	0.55
1:L:427:GLY:C	1:L:429:GLN:N	2.60	0.55
1:H:427:GLY:C	1:H:429:GLN:N	2.60	0.55
1:K:144:ILE:HD12	1:K:145:ARG:N	2.21	0.55
1:B:158:TRP:HH2	1:B:302:PRO:HG3	1.71	0.55
1:F:380:ASN:O	1:F:381:SER:HB3	2.06	0.55
1:F:404:MET:CE	1:G:337:ASN:HB2	2.36	0.55
1:B:118:GLN:CA	1:B:123:VAL:O	2.55	0.55
1:A:633:GLN:O	1:A:637:ALA:N	2.35	0.55
1:F:136:SER:N	1:F:137:PRO:HD3	2.21	0.55
1:I:352:TRP:HD1	1:J:374:LEU:O	1.90	0.55
1:B:136:SER:N	1:B:137:PRO:HD3	2.21	0.55
1:F:534:GLU:O	1:F:538:LEU:HD23	2.07	0.55
1:H:238:PRO:HG3	1:H:263:PHE:HB3	1.88	0.55
1:H:444:LEU:C	1:H:446:THR:N	2.60	0.55
1:C:248:LYS:HD3	1:C:251:ILE:HB	1.89	0.55
1:A:248:LYS:HD3	1:A:251:ILE:HB	1.89	0.55
1:A:38:VAL:HG21	1:A:324:LYS:HD2	1.89	0.55
1:F:248:LYS:HD3	1:F:251:ILE:HB	1.89	0.55
1:B:24:GLU:C	1:B:26:ARG:N	2.59	0.55
1:F:144:ILE:HD12	1:F:145:ARG:N	2.21	0.55
1:B:427:GLY:C	1:B:429:GLN:N	2.60	0.55
1:C:422:THR:HG22	1:C:425:VAL:HG22	1.87	0.55
1:G:161:ASN:ND2	1:G:161:ASN:C	2.60	0.55
1:I:379:GLU:O	1:I:380:ASN:CB	2.52	0.55
1:D:164:LEU:HA	1:D:307:TRP:HH2	1.70	0.55
1:I:535:ILE:HD11	1:I:554:LEU:HG	1.89	0.55
1:F:118:GLN:CA	1:F:123:VAL:O	2.55	0.55
1:D:360:GLU:HB2	1:E:371:TYR:OH	2.07	0.55
1:G:136:SER:N	1:G:137:PRO:HD3	2.21	0.55
1:A:534:GLU:O	1:A:538:LEU:HD23	2.07	0.55
1:C:144:ILE:HD12	1:C:145:ARG:N	2.21	0.55
1:A:144:ILE:HD12	1:A:145:ARG:N	2.21	0.55
1:H:380:ASN:O	1:H:381:SER:HB3	2.06	0.55
1:C:118:GLN:CA	1:C:123:VAL:O	2.55	0.55
1:H:118:GLN:CA	1:H:123:VAL:O	2.55	0.55
1:A:155:HIS:CE1	1:L:312:ASP:OD2	2.58	0.55
1:A:411:ALA:HA	1:A:414:GLU:HG3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:634:ILE:HA	1:I:637:ALA:HB3	1.87	0.55
1:D:534:GLU:O	1:D:538:LEU:HD23	2.07	0.55
1:A:136:SER:N	1:A:137:PRO:HD3	2.21	0.55
1:E:534:GLU:O	1:E:538:LEU:HD23	2.07	0.55
1:B:77:ASP:HB2	1:B:523:SER:CB	2.36	0.55
1:J:444:LEU:C	1:J:446:THR:N	2.60	0.55
1:D:78:VAL:CG1	1:D:79:LEU:N	2.69	0.55
1:J:236:GLN:CB	1:J:265:LYS:HG2	2.36	0.55
1:G:440:MET:O	1:G:444:LEU:HD22	2.05	0.55
1:B:248:LYS:HD3	1:B:251:ILE:HB	1.89	0.55
1:D:248:LYS:HD3	1:D:251:ILE:HB	1.89	0.55
1:I:38:VAL:HG21	1:I:324:LYS:HD2	1.89	0.55
1:C:427:GLY:C	1:C:429:GLN:N	2.60	0.55
1:B:161:ASN:ND2	1:B:161:ASN:C	2.60	0.55
1:J:161:ASN:ND2	1:J:161:ASN:C	2.60	0.55
1:H:411:ALA:HA	1:H:414:GLU:HG3	1.88	0.55
1:A:348:LYS:HE2	1:B:369:TYR:O	2.07	0.55
1:J:376:ARG:HG2	1:J:377:THR:HG23	1.88	0.55
1:I:411:ALA:HA	1:I:414:GLU:HG3	1.88	0.55
1:E:246:TYR:HE2	1:E:512:GLY:N	2.03	0.55
1:E:38:VAL:HG21	1:E:324:LYS:HD2	1.89	0.55
1:A:24:GLU:C	1:A:26:ARG:N	2.59	0.55
1:C:557:PHE:CE2	1:D:563:LYS:HD3	2.42	0.55
1:K:238:PRO:HG3	1:K:263:PHE:HB3	1.88	0.55
1:G:238:PRO:HG3	1:G:263:PHE:HB3	1.88	0.55
1:F:38:VAL:HG21	1:F:324:LYS:HD2	1.89	0.55
1:H:38:VAL:HG21	1:H:324:LYS:HD2	1.89	0.55
1:B:236:GLN:HE21	1:B:265:LYS:HZ1	1.55	0.55
1:I:427:GLY:C	1:I:429:GLN:N	2.60	0.55
1:C:89:ASP:CA	1:D:561:ASP:HB2	2.34	0.55
1:F:161:ASN:C	1:F:161:ASN:ND2	2.60	0.55
1:I:161:ASN:C	1:I:161:ASN:ND2	2.60	0.55
1:L:560:LEU:O	1:L:561:ASP:O	2.25	0.55
1:I:376:ARG:HG2	1:I:377:THR:HG23	1.88	0.55
1:F:411:ALA:HA	1:F:414:GLU:HG3	1.88	0.55
1:I:118:GLN:CA	1:I:123:VAL:O	2.55	0.55
1:L:139:SER:HB3	1:L:455:THR:CG2	2.37	0.55
1:I:136:SER:N	1:I:137:PRO:HD3	2.21	0.55
1:E:113:ILE:O	1:E:117:GLU:HG3	2.07	0.55
1:K:325:ASP:OD2	1:L:56:GLN:HB2	2.07	0.55
1:L:77:ASP:HB2	1:L:523:SER:CB	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:78:VAL:CG1	1:J:79:LEU:N	2.69	0.55
1:G:164:LEU:HA	1:G:307:TRP:HH2	1.71	0.55
1:J:546:THR:O	1:J:550:GLN:OE1	2.24	0.55
1:B:92:ASP:HB3	1:C:561:ASP:OD2	2.06	0.55
1:I:248:LYS:HD3	1:I:251:ILE:HB	1.89	0.55
1:F:560:LEU:O	1:F:561:ASP:O	2.25	0.55
1:J:535:ILE:HD11	1:J:554:LEU:HG	1.89	0.55
1:D:337:ASN:ND2	1:D:401:ASN:HD22	2.04	0.55
1:F:434:THR:HG21	1:G:72:ARG:CG	2.35	0.55
1:I:380:ASN:O	1:I:381:SER:HB3	2.06	0.55
1:G:118:GLN:CA	1:G:123:VAL:O	2.55	0.55
1:K:139:SER:HB3	1:K:455:THR:CG2	2.37	0.55
1:I:139:SER:HB3	1:I:455:THR:CG2	2.37	0.55
1:L:643:ASN:O	1:L:647:ALA:N	2.36	0.55
1:J:136:SER:N	1:J:137:PRO:HD3	2.21	0.55
1:B:534:GLU:O	1:B:538:LEU:HD23	2.07	0.55
1:K:136:SER:N	1:K:137:PRO:HD3	2.21	0.55
1:A:560:LEU:O	1:A:561:ASP:O	2.25	0.55
1:J:560:LEU:O	1:J:561:ASP:O	2.25	0.55
1:F:535:ILE:HD11	1:F:554:LEU:HG	1.88	0.55
1:I:236:GLN:CB	1:I:265:LYS:HG2	2.36	0.55
1:L:238:PRO:HG3	1:L:263:PHE:HB3	1.88	0.55
1:K:535:ILE:HD11	1:K:554:LEU:HG	1.89	0.55
1:B:144:ILE:HD12	1:B:145:ARG:N	2.21	0.55
1:D:427:GLY:C	1:D:429:GLN:N	2.60	0.55
1:F:427:GLY:C	1:F:429:GLN:N	2.60	0.55
1:D:560:LEU:O	1:D:561:ASP:O	2.25	0.55
1:D:158:TRP:HH2	1:D:302:PRO:HG3	1.71	0.55
1:G:535:ILE:HD11	1:G:554:LEU:HG	1.89	0.55
1:G:376:ARG:HG2	1:G:377:THR:HG23	1.88	0.55
1:D:376:ARG:HG2	1:D:377:THR:HG23	1.88	0.55
1:G:337:ASN:ND2	1:G:401:ASN:HD22	2.04	0.55
1:D:118:GLN:CA	1:D:123:VAL:O	2.55	0.55
1:C:348:LYS:HB3	1:D:371:TYR:HA	1.89	0.55
1:L:136:SER:N	1:L:137:PRO:HD3	2.21	0.55
1:A:113:ILE:O	1:A:117:GLU:HG3	2.07	0.55
1:H:462:GLU:O	1:H:497:VAL:HA	2.07	0.55
1:J:643:ASN:O	1:J:647:ALA:N	2.36	0.55
1:J:238:PRO:HG3	1:J:263:PHE:HB3	1.88	0.55
1:J:139:SER:HB3	1:J:455:THR:CG2	2.37	0.55
1:L:113:ILE:O	1:L:117:GLU:HG3	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:136:SER:N	1:E:137:PRO:HD3	2.21	0.55
1:E:248:LYS:HD3	1:E:251:ILE:HB	1.89	0.54
1:L:38:VAL:HG21	1:L:324:LYS:HD2	1.89	0.54
1:E:236:GLN:HE21	1:E:265:LYS:HZ1	1.55	0.54
1:C:337:ASN:ND2	1:C:401:ASN:HD22	2.04	0.54
1:G:71:MET:HE1	1:G:115:VAL:HB	1.89	0.54
1:E:118:GLN:CA	1:E:123:VAL:O	2.55	0.54
1:B:411:ALA:CB	1:C:57:PHE:HD1	2.19	0.54
1:K:643:ASN:O	1:K:647:ALA:N	2.36	0.54
1:H:534:GLU:O	1:H:538:LEU:HD23	2.07	0.54
1:C:534:GLU:O	1:C:538:LEU:HD23	2.07	0.54
1:E:77:ASP:HB2	1:E:523:SER:CB	2.36	0.54
1:J:38:VAL:HG21	1:J:324:LYS:HD2	1.89	0.54
1:K:11:ILE:HD12	1:K:285:ALA:CA	2.31	0.54
1:A:45:LEU:CD2	1:A:328:ARG:HH21	2.17	0.54
1:C:27:ARG:NH1	1:D:211:TRP:CB	2.70	0.54
1:I:208:VAL:HB	1:I:211:TRP:CH2	2.43	0.54
1:L:101:ASP:CG	1:L:138:THR:HG21	2.28	0.54
1:H:101:ASP:CG	1:H:138:THR:HG21	2.28	0.54
1:K:101:ASP:CG	1:K:138:THR:HG21	2.28	0.54
1:L:376:ARG:HG2	1:L:377:THR:HG23	1.88	0.54
1:G:633:GLN:O	1:G:637:ALA:N	2.35	0.54
1:H:136:SER:N	1:H:137:PRO:HD3	2.21	0.54
1:A:27:ARG:HG2	1:B:212:LEU:CD1	2.36	0.54
1:G:560:LEU:O	1:G:561:ASP:O	2.25	0.54
1:L:444:LEU:C	1:L:446:THR:N	2.60	0.54
1:K:444:LEU:C	1:K:446:THR:N	2.60	0.54
1:G:28:GLU:HB2	1:G:313:LYS:HZ2	1.72	0.54
1:H:40:GLN:O	1:H:41:TRP:CB	2.56	0.54
1:A:40:GLN:O	1:A:41:TRP:CB	2.56	0.54
1:L:24:GLU:C	1:L:26:ARG:N	2.59	0.54
1:E:208:VAL:HB	1:E:211:TRP:CH2	2.43	0.54
1:J:144:ILE:HD12	1:J:145:ARG:N	2.21	0.54
1:A:101:ASP:CG	1:A:138:THR:HG21	2.28	0.54
1:D:161:ASN:ND2	1:D:161:ASN:C	2.60	0.54
1:E:66:LYS:HZ3	1:E:420:VAL:CG1	2.20	0.54
1:H:400:ALA:HB3	1:I:395:PRO:HB2	1.89	0.54
1:I:554:LEU:HD22	1:J:567:MET:CE	2.37	0.54
1:L:118:GLN:CA	1:L:123:VAL:O	2.55	0.54
1:K:411:ALA:HB1	1:L:57:PHE:HD1	1.71	0.54
1:A:462:GLU:O	1:A:497:VAL:HA	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:139:SER:HB3	1:A:455:THR:CG2	2.37	0.54
1:C:462:GLU:O	1:C:497:VAL:HA	2.08	0.54
1:J:462:GLU:O	1:J:497:VAL:HA	2.08	0.54
1:I:534:GLU:O	1:I:538:LEU:HD23	2.07	0.54
1:H:560:LEU:O	1:H:561:ASP:O	2.25	0.54
1:I:560:LEU:O	1:I:561:ASP:O	2.25	0.54
1:B:560:LEU:O	1:B:561:ASP:O	2.25	0.54
1:A:549:TYR:OH	1:L:547:PRO:HG3	2.06	0.54
1:J:248:LYS:HD3	1:J:251:ILE:HB	1.89	0.54
1:E:238:PRO:HG3	1:E:263:PHE:HB3	1.88	0.54
1:H:208:VAL:HB	1:H:211:TRP:CH2	2.43	0.54
1:I:101:ASP:CG	1:I:138:THR:HG21	2.28	0.54
1:I:144:ILE:HD12	1:I:145:ARG:N	2.21	0.54
1:C:101:ASP:CG	1:C:138:THR:HG21	2.28	0.54
1:G:427:GLY:C	1:G:429:GLN:N	2.60	0.54
1:G:144:ILE:HD12	1:G:145:ARG:N	2.21	0.54
1:H:161:ASN:ND2	1:H:161:ASN:C	2.60	0.54
1:J:158:TRP:HH2	1:J:302:PRO:HG3	1.71	0.54
1:C:458:ARG:NH2	1:C:500:ALA:HB1	2.23	0.54
1:F:376:ARG:HG2	1:F:377:THR:HG23	1.88	0.54
1:A:71:MET:HE1	1:A:115:VAL:HB	1.90	0.54
1:A:118:GLN:CA	1:A:123:VAL:O	2.55	0.54
1:J:534:GLU:O	1:J:538:LEU:HD23	2.07	0.54
1:E:462:GLU:O	1:E:497:VAL:HA	2.08	0.54
1:I:398:PRO:HB3	1:J:395:PRO:HD2	1.88	0.54
1:F:139:SER:HB3	1:F:455:THR:CG2	2.37	0.54
1:D:139:SER:HB3	1:D:455:THR:CG2	2.37	0.54
1:F:113:ILE:O	1:F:117:GLU:HG3	2.07	0.54
1:E:535:ILE:HD11	1:E:554:LEU:HG	1.89	0.54
1:D:535:ILE:HD11	1:D:554:LEU:HG	1.89	0.54
1:D:208:VAL:HB	1:D:211:TRP:CH2	2.43	0.54
1:B:101:ASP:CG	1:B:138:THR:HG21	2.28	0.54
1:J:427:GLY:C	1:J:429:GLN:N	2.60	0.54
1:B:376:ARG:HG2	1:B:377:THR:HG23	1.88	0.54
1:K:118:GLN:CA	1:K:123:VAL:O	2.55	0.54
1:D:404:MET:SD	1:E:337:ASN:CB	2.95	0.54
1:B:462:GLU:O	1:B:497:VAL:HA	2.08	0.54
1:G:113:ILE:O	1:G:117:GLU:HG3	2.07	0.54
1:L:462:GLU:O	1:L:497:VAL:HA	2.08	0.54
1:D:136:SER:N	1:D:137:PRO:HD3	2.21	0.54
1:D:325:ASP:OD2	1:E:56:GLN:CB	2.52	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:565:VAL:HG23	1:H:569:ARG:HH21	1.73	0.54
1:D:38:VAL:HG21	1:D:324:LYS:HD2	1.89	0.54
1:B:40:GLN:O	1:B:41:TRP:CB	2.56	0.54
1:J:208:VAL:HB	1:J:211:TRP:CH2	2.43	0.54
1:E:28:GLU:HB2	1:E:313:LYS:HZ2	1.72	0.54
1:F:208:VAL:HB	1:F:211:TRP:CH2	2.43	0.54
1:B:27:ARG:CZ	1:C:211:TRP:HB3	2.37	0.54
1:H:49:THR:CG2	1:H:49:THR:O	2.54	0.54
1:I:49:THR:O	1:I:49:THR:CG2	2.54	0.54
1:A:380:ASN:O	1:A:381:SER:HB3	2.06	0.54
1:F:352:TRP:CD1	1:G:374:LEU:O	2.60	0.54
1:K:376:ARG:HG2	1:K:377:THR:HG23	1.88	0.54
1:F:458:ARG:NH2	1:F:500:ALA:HB1	2.23	0.54
1:A:458:ARG:NH2	1:A:500:ALA:HB1	2.23	0.54
1:L:633:GLN:O	1:L:637:ALA:N	2.35	0.54
1:G:390:ALA:CB	1:H:387:GLN:HB2	2.38	0.54
1:I:113:ILE:O	1:I:117:GLU:HG3	2.07	0.54
1:L:534:GLU:O	1:L:538:LEU:HD23	2.07	0.54
1:H:390:ALA:CB	1:I:387:GLN:HB2	2.38	0.54
1:E:139:SER:HB3	1:E:455:THR:CG2	2.37	0.54
1:F:28:GLU:HB2	1:F:313:LYS:HZ2	1.71	0.54
1:J:565:VAL:HG23	1:J:569:ARG:HH21	1.73	0.54
1:C:560:LEU:O	1:C:561:ASP:O	2.25	0.54
1:H:11:ILE:HD12	1:H:285:ALA:CA	2.31	0.54
1:L:11:ILE:HD12	1:L:285:ALA:CA	2.31	0.54
1:E:40:GLN:O	1:E:41:TRP:CB	2.56	0.54
1:B:28:GLU:HB2	1:B:313:LYS:HZ2	1.73	0.54
1:C:161:ASN:ND2	1:C:161:ASN:C	2.60	0.54
1:C:66:LYS:HZ3	1:C:420:VAL:HG11	1.72	0.54
1:G:458:ARG:NH2	1:G:500:ALA:HB1	2.23	0.54
1:B:337:ASN:ND2	1:B:401:ASN:HD22	2.04	0.54
1:H:113:ILE:O	1:H:117:GLU:HG3	2.07	0.54
1:G:643:ASN:O	1:G:647:ALA:N	2.36	0.54
1:I:462:GLU:O	1:I:497:VAL:HA	2.08	0.54
1:G:208:VAL:HB	1:G:211:TRP:CH2	2.43	0.54
1:E:565:VAL:HG23	1:E:569:ARG:HH21	1.73	0.54
1:B:565:VAL:HG23	1:B:569:ARG:HH21	1.73	0.54
1:K:208:VAL:HB	1:K:211:TRP:CH2	2.43	0.54
1:F:565:VAL:HG23	1:F:569:ARG:HH21	1.73	0.54
1:F:11:ILE:HD12	1:F:285:ALA:CA	2.31	0.54
1:D:101:ASP:CG	1:D:138:THR:HG21	2.28	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:101:ASP:CG	1:F:138:THR:HG21	2.28	0.54
1:G:101:ASP:CG	1:G:138:THR:HG21	2.28	0.54
1:A:161:ASN:C	1:A:161:ASN:ND2	2.60	0.54
1:H:66:LYS:HZ3	1:H:420:VAL:CG1	2.20	0.54
1:I:71:MET:HE1	1:I:115:VAL:HB	1.90	0.54
1:D:113:ILE:O	1:D:117:GLU:HG3	2.07	0.54
1:D:462:GLU:O	1:D:497:VAL:HA	2.08	0.54
1:K:560:LEU:O	1:K:561:ASP:O	2.25	0.54
1:B:208:VAL:HB	1:B:211:TRP:CH2	2.43	0.54
1:I:77:ASP:HB2	1:I:523:SER:CB	2.36	0.54
1:L:248:LYS:HD3	1:L:251:ILE:HB	1.89	0.54
1:I:40:GLN:O	1:I:41:TRP:CB	2.56	0.54
1:A:208:VAL:HB	1:A:211:TRP:CH2	2.43	0.54
1:E:101:ASP:CG	1:E:138:THR:HG21	2.28	0.54
1:H:535:ILE:HD11	1:H:554:LEU:HG	1.89	0.54
1:H:158:TRP:HH2	1:H:302:PRO:HG3	1.71	0.54
1:L:565:VAL:HG23	1:L:569:ARG:HH21	1.73	0.54
1:D:458:ARG:NH2	1:D:500:ALA:HB1	2.23	0.54
1:E:337:ASN:ND2	1:E:401:ASN:HD22	2.04	0.54
1:K:411:ALA:HA	1:K:414:GLU:HG3	1.88	0.54
1:B:38:VAL:HG21	1:B:324:LYS:HD2	1.89	0.54
1:F:353:PRO:O	1:F:357:ALA:HB2	2.08	0.54
1:I:127:ARG:O	1:I:128:LEU:HD23	2.08	0.54
1:B:139:SER:HB3	1:B:455:THR:CG2	2.37	0.54
1:D:353:PRO:O	1:D:357:ALA:HB2	2.08	0.54
1:I:565:VAL:HG23	1:I:569:ARG:HH21	1.73	0.54
1:L:236:GLN:HE21	1:L:265:LYS:HZ1	1.55	0.54
1:H:248:LYS:HD3	1:H:251:ILE:HB	1.89	0.54
1:D:40:GLN:O	1:D:41:TRP:CB	2.56	0.54
1:B:458:ARG:NH2	1:B:500:ALA:HB1	2.23	0.54
1:A:376:ARG:NE	1:L:354:GLU:OE2	2.40	0.54
1:B:111:VAL:O	1:B:115:VAL:HG13	2.08	0.54
1:G:139:SER:HB3	1:G:455:THR:CG2	2.37	0.54
1:L:353:PRO:O	1:L:357:ALA:HB2	2.08	0.54
1:E:643:ASN:O	1:E:647:ALA:N	2.36	0.54
1:K:565:VAL:O	1:K:569:ARG:HB3	2.09	0.53
1:F:444:LEU:C	1:F:446:THR:N	2.60	0.53
1:B:444:LEU:C	1:B:446:THR:N	2.60	0.53
1:G:434:THR:HG21	1:H:72:ARG:CG	2.37	0.53
1:J:248:LYS:HZ2	1:J:251:ILE:HD12	1.73	0.53
1:K:248:LYS:HD3	1:K:251:ILE:HB	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:565:VAL:HG23	1:C:569:ARG:HH21	1.73	0.53
1:E:24:GLU:C	1:E:26:ARG:N	2.59	0.53
1:L:208:VAL:HB	1:L:211:TRP:CH2	2.43	0.53
1:L:63:VAL:O	1:L:66:LYS:HB3	2.09	0.53
1:J:458:ARG:NH2	1:J:500:ALA:HB1	2.23	0.53
1:J:111:VAL:O	1:J:115:VAL:HG13	2.08	0.53
1:G:17:ALA:HA	1:G:20:THR:OG1	2.08	0.53
1:I:266:ILE:HG23	1:I:267:ALA:N	2.24	0.53
1:I:353:PRO:O	1:I:357:ALA:HB2	2.08	0.53
1:G:322:LEU:N	1:G:322:LEU:HD22	2.24	0.53
1:A:535:ILE:HD11	1:A:554:LEU:HG	1.89	0.53
1:G:565:VAL:O	1:G:569:ARG:HB3	2.09	0.53
1:D:45:LEU:CD2	1:D:328:ARG:HH21	2.17	0.53
1:A:41:TRP:CZ3	1:A:42:ASP:O	2.62	0.53
1:G:248:LYS:HD3	1:G:251:ILE:HB	1.89	0.53
1:D:26:ARG:HE	1:D:26:ARG:HA	1.74	0.53
1:J:101:ASP:CG	1:J:138:THR:HG21	2.28	0.53
1:I:161:ASN:C	1:I:161:ASN:HD22	2.12	0.53
1:H:458:ARG:NH2	1:H:500:ALA:HB1	2.23	0.53
1:D:111:VAL:O	1:D:115:VAL:HG13	2.08	0.53
1:J:118:GLN:CA	1:J:123:VAL:O	2.55	0.53
1:B:127:ARG:O	1:B:128:LEU:HD23	2.08	0.53
1:G:127:ARG:O	1:G:128:LEU:HD23	2.08	0.53
1:D:17:ALA:HA	1:D:20:THR:OG1	2.09	0.53
1:J:113:ILE:O	1:J:117:GLU:HG3	2.07	0.53
1:J:127:ARG:O	1:J:128:LEU:HD23	2.08	0.53
1:J:322:LEU:HD22	1:J:322:LEU:N	2.24	0.53
1:A:565:VAL:HG23	1:A:569:ARG:HH21	1.73	0.53
1:F:27:ARG:NH1	1:G:211:TRP:CB	2.71	0.53
1:K:443:ASP:C	1:K:444:LEU:HD13	2.29	0.53
1:B:78:VAL:HG11	1:B:444:LEU:HG	1.91	0.53
1:H:546:THR:HG23	1:H:547:PRO:CD	2.29	0.53
1:D:547:PRO:HG3	1:E:549:TYR:OH	2.08	0.53
1:F:565:VAL:O	1:F:569:ARG:HB3	2.08	0.53
1:C:41:TRP:CZ3	1:C:42:ASP:O	2.62	0.53
1:I:41:TRP:CZ3	1:I:42:ASP:O	2.62	0.53
1:K:38:VAL:HG21	1:K:324:LYS:HD2	1.89	0.53
1:K:40:GLN:O	1:K:41:TRP:CB	2.56	0.53
1:C:208:VAL:HB	1:C:211:TRP:CH2	2.43	0.53
1:J:49:THR:CG2	1:J:49:THR:O	2.54	0.53
1:F:161:ASN:C	1:F:161:ASN:HD22	2.12	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:337:ASN:ND2	1:K:401:ASN:HD22	2.04	0.53
1:C:71:MET:HE1	1:C:115:VAL:HB	1.90	0.53
1:C:38:VAL:HG21	1:C:324:LYS:HD2	1.89	0.53
1:J:266:ILE:HG23	1:J:267:ALA:N	2.24	0.53
1:C:127:ARG:O	1:C:128:LEU:HD23	2.08	0.53
1:H:353:PRO:O	1:H:357:ALA:HB2	2.08	0.53
1:K:17:ALA:HA	1:K:20:THR:OG1	2.09	0.53
1:C:353:PRO:O	1:C:357:ALA:HB2	2.08	0.53
1:L:322:LEU:N	1:L:322:LEU:HD22	2.24	0.53
1:K:322:LEU:HD22	1:K:322:LEU:N	2.24	0.53
1:E:565:VAL:O	1:E:569:ARG:HB3	2.08	0.53
1:K:78:VAL:HG11	1:K:444:LEU:HG	1.91	0.53
1:B:535:ILE:HD11	1:B:554:LEU:HG	1.89	0.53
1:G:78:VAL:HG11	1:G:444:LEU:HG	1.91	0.53
1:D:41:TRP:CZ3	1:D:42:ASP:O	2.62	0.53
1:L:584:PRO:CG	1:L:590:GLN:HG2	2.39	0.53
1:I:63:VAL:O	1:I:66:LYS:HB3	2.09	0.53
1:F:71:MET:HE1	1:F:115:VAL:HB	1.89	0.53
1:E:353:PRO:O	1:E:357:ALA:HB2	2.08	0.53
1:H:685:ALA:O	1:H:688:GLU:CB	2.57	0.53
1:C:113:ILE:O	1:C:117:GLU:HG3	2.07	0.53
1:F:462:GLU:O	1:F:497:VAL:HA	2.08	0.53
1:H:139:SER:HB3	1:H:455:THR:CG2	2.37	0.53
1:A:322:LEU:N	1:A:322:LEU:HD22	2.24	0.53
1:E:560:LEU:O	1:E:561:ASP:O	2.25	0.53
1:H:565:VAL:O	1:H:569:ARG:HB3	2.08	0.53
1:B:565:VAL:O	1:B:569:ARG:HB3	2.08	0.53
1:G:443:ASP:C	1:G:444:LEU:HD13	2.29	0.53
1:I:11:ILE:HD12	1:I:285:ALA:CA	2.31	0.53
1:G:38:VAL:HG21	1:G:324:LYS:HD2	1.89	0.53
1:C:26:ARG:HA	1:C:26:ARG:HE	1.74	0.53
1:D:565:VAL:HG23	1:D:569:ARG:HH21	1.73	0.53
1:F:63:VAL:O	1:F:66:LYS:HB3	2.09	0.53
1:E:63:VAL:O	1:E:66:LYS:HB3	2.08	0.53
1:D:63:VAL:O	1:D:66:LYS:HB3	2.09	0.53
1:G:111:VAL:O	1:G:115:VAL:HG13	2.09	0.53
1:F:127:ARG:O	1:F:128:LEU:HD23	2.08	0.53
1:C:139:SER:HB3	1:C:455:THR:CG2	2.37	0.53
1:G:462:GLU:O	1:G:497:VAL:HA	2.08	0.53
1:E:17:ALA:HA	1:E:20:THR:OG1	2.09	0.53
1:C:390:ALA:HB3	1:D:387:GLN:OE1	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:179:MET:SD	1:F:184:TRP:HA	2.49	0.53
1:G:353:PRO:O	1:G:357:ALA:HB2	2.08	0.53
1:J:687:ALA:O	1:J:691:LEU:N	2.39	0.53
1:K:127:ARG:O	1:K:128:LEU:HD23	2.08	0.53
1:H:322:LEU:N	1:H:322:LEU:HD22	2.24	0.53
1:F:443:ASP:C	1:F:444:LEU:HD13	2.29	0.53
1:A:78:VAL:CG1	1:A:79:LEU:H	2.22	0.53
1:E:443:ASP:C	1:E:444:LEU:HD13	2.29	0.53
1:H:434:THR:HG21	1:I:72:ARG:CG	2.39	0.53
1:H:443:ASP:C	1:H:444:LEU:HD13	2.29	0.53
1:C:40:GLN:O	1:C:41:TRP:CB	2.56	0.53
1:H:41:TRP:CG	1:H:42:ASP:N	2.77	0.53
1:K:41:TRP:CZ3	1:K:42:ASP:O	2.62	0.53
1:C:27:ARG:HD2	1:D:212:LEU:H	1.74	0.53
1:B:26:ARG:HE	1:B:26:ARG:HA	1.74	0.53
1:A:49:THR:O	1:A:49:THR:CG2	2.54	0.53
1:A:348:LYS:CB	1:B:371:TYR:HA	2.38	0.53
1:G:63:VAL:O	1:G:66:LYS:HB3	2.09	0.53
1:F:411:ALA:CB	1:G:57:PHE:HD1	2.22	0.53
1:L:458:ARG:NH2	1:L:500:ALA:HB1	2.23	0.53
1:I:337:ASN:ND2	1:I:401:ASN:HD22	2.04	0.53
1:C:111:VAL:O	1:C:115:VAL:HG13	2.08	0.53
1:I:554:LEU:HD22	1:J:567:MET:HE2	1.91	0.53
1:K:348:LYS:HB2	1:L:372:TYR:CD2	2.43	0.53
1:G:363:TYR:OH	1:G:373:LEU:O	2.26	0.53
1:L:17:ALA:HA	1:L:20:THR:OG1	2.09	0.53
1:H:127:ARG:O	1:H:128:LEU:HD23	2.08	0.53
1:D:685:ALA:O	1:D:688:GLU:CB	2.57	0.53
1:A:179:MET:SD	1:A:184:TRP:HA	2.49	0.53
1:H:17:ALA:HA	1:H:20:THR:OG1	2.09	0.53
1:K:685:ALA:O	1:K:688:GLU:CB	2.57	0.53
1:E:685:ALA:O	1:E:688:GLU:CB	2.57	0.53
1:I:322:LEU:N	1:I:322:LEU:HD22	2.24	0.53
1:B:322:LEU:HD22	1:B:322:LEU:N	2.24	0.53
1:I:565:VAL:O	1:I:569:ARG:HB3	2.09	0.53
1:J:26:ARG:HE	1:J:26:ARG:HA	1.74	0.53
1:I:27:ARG:CZ	1:J:211:TRP:HB3	2.38	0.53
1:C:208:VAL:HG12	1:C:210:PRO:HD3	1.91	0.53
1:C:584:PRO:CG	1:C:590:GLN:HG2	2.39	0.53
1:A:427:GLY:C	1:A:429:GLN:N	2.60	0.53
1:F:158:TRP:HH2	1:F:302:PRO:HG3	1.71	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:63:VAL:O	1:C:66:LYS:HB3	2.08	0.53
1:K:89:ASP:HA	1:L:561:ASP:CB	2.38	0.53
1:A:337:ASN:ND2	1:A:401:ASN:HD22	2.04	0.53
1:A:111:VAL:O	1:A:115:VAL:HG13	2.08	0.53
1:I:111:VAL:O	1:I:115:VAL:HG13	2.09	0.53
1:J:179:MET:SD	1:J:184:TRP:HA	2.49	0.53
1:I:179:MET:SD	1:I:184:TRP:HA	2.49	0.53
1:D:643:ASN:O	1:D:647:ALA:N	2.36	0.53
1:K:462:GLU:O	1:K:497:VAL:HA	2.08	0.53
1:A:17:ALA:HA	1:A:20:THR:OG1	2.09	0.53
1:J:685:ALA:O	1:J:688:GLU:CB	2.57	0.53
1:B:209:PHE:N	1:B:210:PRO:CD	2.72	0.53
1:G:565:VAL:HG23	1:G:569:ARG:HH21	1.73	0.53
1:D:443:ASP:C	1:D:444:LEU:HD13	2.29	0.53
1:L:78:VAL:CG1	1:L:79:LEU:H	2.22	0.53
1:A:78:VAL:HG11	1:A:444:LEU:HG	1.91	0.53
1:E:444:LEU:C	1:E:446:THR:N	2.60	0.53
1:J:41:TRP:CG	1:J:42:ASP:N	2.77	0.53
1:A:248:LYS:HZ2	1:A:251:ILE:HD12	1.71	0.53
1:F:40:GLN:O	1:F:41:TRP:CB	2.56	0.53
1:I:26:ARG:HA	1:I:26:ARG:HE	1.74	0.53
1:J:209:PHE:N	1:J:210:PRO:CD	2.72	0.53
1:I:208:VAL:HG12	1:I:210:PRO:HD3	1.91	0.53
1:I:584:PRO:CG	1:I:590:GLN:HG2	2.39	0.53
1:B:584:PRO:CG	1:B:590:GLN:HG2	2.39	0.53
1:B:161:ASN:HD22	1:B:161:ASN:C	2.11	0.53
1:L:565:VAL:O	1:L:569:ARG:HB3	2.08	0.53
1:K:458:ARG:NH2	1:K:500:ALA:HB1	2.23	0.53
1:K:633:GLN:O	1:K:637:ALA:N	2.35	0.53
1:B:113:ILE:O	1:B:117:GLU:HG3	2.07	0.53
1:K:353:PRO:O	1:K:357:ALA:HB2	2.08	0.53
1:E:179:MET:SD	1:E:184:TRP:HA	2.49	0.53
1:D:179:MET:SD	1:D:184:TRP:HA	2.49	0.53
1:C:687:ALA:O	1:C:691:LEU:N	2.40	0.53
1:K:113:ILE:O	1:K:117:GLU:HG3	2.07	0.53
1:A:685:ALA:O	1:A:688:GLU:CB	2.57	0.53
1:B:179:MET:SD	1:B:184:TRP:HA	2.49	0.53
1:C:322:LEU:N	1:C:322:LEU:HD22	2.24	0.53
1:K:565:VAL:HG23	1:K:569:ARG:HH21	1.73	0.53
1:B:208:VAL:HG12	1:B:210:PRO:HD3	1.91	0.53
1:F:78:VAL:CG1	1:F:79:LEU:H	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:78:VAL:CG1	1:D:79:LEU:H	2.22	0.53
1:C:444:LEU:C	1:C:446:THR:N	2.60	0.53
1:E:89:ASP:CA	1:F:561:ASP:HB2	2.37	0.53
1:I:41:TRP:CG	1:I:42:ASP:N	2.77	0.53
1:L:28:GLU:HB2	1:L:313:LYS:HZ2	1.74	0.53
1:D:209:PHE:N	1:D:210:PRO:CD	2.72	0.53
1:D:208:VAL:HG12	1:D:210:PRO:HD3	1.91	0.53
1:E:208:VAL:HG12	1:E:210:PRO:HD3	1.91	0.53
1:L:161:ASN:C	1:L:161:ASN:HD22	2.12	0.53
1:E:400:ALA:HB3	1:F:395:PRO:HB2	1.90	0.53
1:E:352:TRP:CD1	1:F:374:LEU:O	2.60	0.53
1:C:179:MET:SD	1:C:184:TRP:HA	2.49	0.53
1:J:353:PRO:O	1:J:357:ALA:HB2	2.08	0.53
1:F:17:ALA:HA	1:F:20:THR:OG1	2.09	0.53
1:B:353:PRO:O	1:B:357:ALA:HB2	2.08	0.53
1:B:266:ILE:HG23	1:B:267:ALA:N	2.24	0.53
1:F:27:ARG:HG2	1:G:212:LEU:CD1	2.37	0.53
1:D:78:VAL:HG11	1:D:444:LEU:HG	1.91	0.53
1:H:78:VAL:HG11	1:H:444:LEU:HG	1.91	0.53
1:J:546:THR:HG23	1:J:547:PRO:CD	2.29	0.53
1:G:41:TRP:CG	1:G:42:ASP:N	2.77	0.53
1:J:40:GLN:O	1:J:41:TRP:CB	2.56	0.53
1:B:41:TRP:CZ3	1:B:42:ASP:O	2.62	0.53
1:K:41:TRP:CG	1:K:42:ASP:N	2.77	0.53
1:F:208:VAL:HG12	1:F:210:PRO:HD3	1.91	0.53
1:J:584:PRO:CG	1:J:590:GLN:HG2	2.39	0.53
1:K:26:ARG:HA	1:K:26:ARG:HE	1.74	0.53
1:L:208:VAL:HG12	1:L:210:PRO:HD3	1.91	0.53
1:K:584:PRO:CG	1:K:590:GLN:HG2	2.39	0.53
1:B:63:VAL:O	1:B:66:LYS:HB3	2.08	0.53
1:G:458:ARG:NH2	1:G:500:ALA:CB	2.72	0.53
1:I:458:ARG:NH2	1:I:500:ALA:HB1	2.23	0.53
1:E:458:ARG:NH2	1:E:500:ALA:HB1	2.23	0.53
1:E:111:VAL:O	1:E:115:VAL:HG13	2.08	0.53
1:H:643:ASN:O	1:H:647:ALA:HB2	2.09	0.53
1:C:685:ALA:O	1:C:688:GLU:CB	2.57	0.53
1:G:685:ALA:O	1:G:688:GLU:CB	2.57	0.53
1:A:363:TYR:OH	1:A:373:LEU:O	2.26	0.53
1:I:17:ALA:HA	1:I:20:THR:OG1	2.08	0.53
1:G:208:VAL:HG12	1:G:210:PRO:HD3	1.91	0.52
1:G:41:TRP:CZ3	1:G:42:ASP:O	2.62	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:40:GLN:O	1:L:41:TRP:CB	2.56	0.52
1:F:41:TRP:CZ3	1:F:42:ASP:O	2.62	0.52
1:A:41:TRP:CG	1:A:42:ASP:N	2.77	0.52
1:J:208:VAL:HG12	1:J:210:PRO:HD3	1.91	0.52
1:A:63:VAL:O	1:A:66:LYS:HB3	2.09	0.52
1:L:49:THR:CG2	1:L:49:THR:O	2.54	0.52
1:C:161:ASN:HD22	1:C:161:ASN:C	2.12	0.52
1:K:63:VAL:O	1:K:66:LYS:HB3	2.09	0.52
1:I:458:ARG:NH2	1:I:500:ALA:CB	2.72	0.52
1:F:404:MET:SD	1:G:337:ASN:HB3	2.50	0.52
1:L:111:VAL:O	1:L:115:VAL:HG13	2.08	0.52
1:B:71:MET:HE1	1:B:115:VAL:HB	1.90	0.52
1:K:643:ASN:O	1:K:647:ALA:HB2	2.09	0.52
1:F:685:ALA:O	1:F:688:GLU:CB	2.57	0.52
1:A:127:ARG:O	1:A:128:LEU:HD23	2.08	0.52
1:G:179:MET:SD	1:G:184:TRP:HA	2.49	0.52
1:L:127:ARG:O	1:L:128:LEU:HD23	2.08	0.52
1:E:322:LEU:N	1:E:322:LEU:HD22	2.24	0.52
1:D:322:LEU:HD22	1:D:322:LEU:N	2.24	0.52
1:A:565:VAL:O	1:A:569:ARG:HB3	2.08	0.52
1:J:565:VAL:O	1:J:569:ARG:HB3	2.08	0.52
1:L:78:VAL:HG11	1:L:444:LEU:HG	1.91	0.52
1:B:443:ASP:C	1:B:444:LEU:HD13	2.29	0.52
1:G:444:LEU:C	1:G:446:THR:N	2.60	0.52
1:E:27:ARG:CZ	1:F:211:TRP:CB	2.88	0.52
1:D:584:PRO:CG	1:D:590:GLN:HG2	2.39	0.52
1:E:161:ASN:HD22	1:E:161:ASN:C	2.12	0.52
1:A:438:LEU:HD11	1:B:108:LYS:NZ	2.24	0.52
1:F:458:ARG:NH2	1:F:500:ALA:CB	2.73	0.52
1:H:458:ARG:NH2	1:H:500:ALA:CB	2.72	0.52
1:L:458:ARG:NH2	1:L:500:ALA:CB	2.72	0.52
1:E:458:ARG:NH2	1:E:500:ALA:CB	2.72	0.52
1:L:685:ALA:O	1:L:688:GLU:CB	2.57	0.52
1:J:17:ALA:HA	1:J:20:THR:OG1	2.09	0.52
1:E:127:ARG:O	1:E:128:LEU:HD23	2.08	0.52
1:J:443:ASP:C	1:J:444:LEU:HD13	2.29	0.52
1:C:78:VAL:CG1	1:C:79:LEU:H	2.22	0.52
1:D:350:PHE:HE1	1:E:363:TYR:HE1	1.56	0.52
1:H:78:VAL:CG1	1:H:79:LEU:H	2.22	0.52
1:K:208:VAL:HG12	1:K:210:PRO:HD3	1.91	0.52
1:I:443:ASP:C	1:I:444:LEU:HD13	2.29	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:43:ASP:OD1	1:J:327:GLN:OE1	2.28	0.52
1:E:41:TRP:CZ3	1:E:42:ASP:O	2.62	0.52
1:J:161:ASN:HD22	1:J:161:ASN:C	2.12	0.52
1:D:161:ASN:C	1:D:161:ASN:HD22	2.12	0.52
1:G:161:ASN:HD22	1:G:161:ASN:C	2.12	0.52
1:J:63:VAL:O	1:J:66:LYS:HB3	2.09	0.52
1:B:458:ARG:NH2	1:B:500:ALA:CB	2.72	0.52
1:D:458:ARG:NH2	1:D:500:ALA:CB	2.72	0.52
1:E:643:ASN:O	1:E:647:ALA:HB2	2.09	0.52
1:D:643:ASN:O	1:D:647:ALA:HB2	2.09	0.52
1:C:643:ASN:O	1:C:647:ALA:HB2	2.09	0.52
1:H:266:ILE:HG23	1:H:267:ALA:N	2.24	0.52
1:F:322:LEU:HD22	1:F:322:LEU:N	2.24	0.52
1:L:444:LEU:C	1:L:446:THR:H	2.13	0.52
1:A:443:ASP:C	1:A:444:LEU:HD13	2.29	0.52
1:L:41:TRP:CZ3	1:L:42:ASP:O	2.62	0.52
1:F:43:ASP:OD1	1:F:327:GLN:OE1	2.28	0.52
1:L:201:PHE:HA	1:L:283:CYS:SG	2.50	0.52
1:D:27:ARG:HG2	1:E:212:LEU:HD13	1.92	0.52
1:J:577:ILE:HG12	1:J:582:LYS:CG	2.36	0.52
1:K:161:ASN:HD22	1:K:161:ASN:C	2.12	0.52
1:J:337:ASN:ND2	1:J:401:ASN:HD22	2.04	0.52
1:B:401:ASN:OD1	1:C:341:VAL:HG13	2.09	0.52
1:E:350:PHE:HA	1:F:372:TYR:O	2.08	0.52
1:A:643:ASN:O	1:A:647:ALA:HB2	2.09	0.52
1:G:643:ASN:O	1:G:647:ALA:HB2	2.09	0.52
1:K:179:MET:SD	1:K:184:TRP:HA	2.49	0.52
1:L:266:ILE:HG23	1:L:267:ALA:N	2.24	0.52
1:F:266:ILE:HG23	1:F:267:ALA:N	2.24	0.52
1:B:17:ALA:HA	1:B:20:THR:OG1	2.09	0.52
1:C:266:ILE:HG23	1:C:267:ALA:N	2.24	0.52
1:C:17:ALA:HA	1:C:20:THR:OG1	2.09	0.52
1:F:236:GLN:HE21	1:F:265:LYS:HZ1	1.58	0.52
1:G:201:PHE:HA	1:G:283:CYS:SG	2.50	0.52
1:J:201:PHE:HA	1:J:283:CYS:SG	2.50	0.52
1:C:565:VAL:O	1:C:569:ARG:HB3	2.08	0.52
1:G:26:ARG:HE	1:G:26:ARG:HA	1.74	0.52
1:K:43:ASP:OD1	1:K:327:GLN:OE1	2.28	0.52
1:E:41:TRP:CG	1:E:42:ASP:N	2.77	0.52
1:A:208:VAL:HG12	1:A:210:PRO:HD3	1.91	0.52
1:K:158:TRP:HH2	1:K:302:PRO:HG3	1.71	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:111:VAL:O	1:K:115:VAL:HG13	2.08	0.52
1:I:309:PHE:HB2	1:J:150:HIS:CG	2.45	0.52
1:B:685:ALA:O	1:B:688:GLU:CB	2.57	0.52
1:F:26:ARG:HE	1:F:26:ARG:HA	1.74	0.52
1:F:444:LEU:C	1:F:446:THR:H	2.13	0.52
1:E:78:VAL:HG11	1:E:444:LEU:HG	1.91	0.52
1:I:444:LEU:C	1:I:446:THR:N	2.60	0.52
1:A:201:PHE:HA	1:A:283:CYS:SG	2.50	0.52
1:J:11:ILE:HD12	1:J:285:ALA:CA	2.31	0.52
1:D:201:PHE:HA	1:D:283:CYS:SG	2.50	0.52
1:H:201:PHE:HA	1:H:283:CYS:SG	2.50	0.52
1:E:201:PHE:HA	1:E:283:CYS:SG	2.50	0.52
1:F:41:TRP:CG	1:F:42:ASP:N	2.77	0.52
1:L:26:ARG:HA	1:L:26:ARG:HE	1.74	0.52
1:D:390:ALA:HB3	1:E:387:GLN:HB2	1.87	0.52
1:I:577:ILE:HG12	1:I:582:LYS:CG	2.36	0.52
1:A:458:ARG:NH2	1:A:500:ALA:CB	2.72	0.52
1:F:111:VAL:O	1:F:115:VAL:HG13	2.09	0.52
1:C:43:ASP:OD1	1:C:327:GLN:OE1	2.28	0.52
1:I:685:ALA:O	1:I:688:GLU:CB	2.57	0.52
1:G:266:ILE:HG23	1:G:267:ALA:N	2.23	0.52
1:A:353:PRO:O	1:A:357:ALA:HB2	2.08	0.52
1:A:266:ILE:HG23	1:A:267:ALA:N	2.24	0.52
1:L:443:ASP:C	1:L:444:LEU:HD13	2.29	0.52
1:E:78:VAL:CG1	1:E:79:LEU:H	2.22	0.52
1:I:444:LEU:C	1:I:446:THR:H	2.13	0.52
1:J:41:TRP:CZ3	1:J:42:ASP:O	2.62	0.52
1:D:43:ASP:OD1	1:D:327:GLN:OE1	2.28	0.52
1:F:201:PHE:HA	1:F:283:CYS:SG	2.50	0.52
1:B:41:TRP:CG	1:B:42:ASP:N	2.77	0.52
1:H:41:TRP:CZ3	1:H:42:ASP:O	2.62	0.52
1:K:32:ASP:HA	1:K:35:PHE:CD1	2.45	0.52
1:H:26:ARG:HA	1:H:26:ARG:HE	1.74	0.52
1:H:584:PRO:CG	1:H:590:GLN:HG2	2.39	0.52
1:E:427:GLY:C	1:E:429:GLN:N	2.60	0.52
1:E:158:TRP:HH2	1:E:302:PRO:HG3	1.71	0.52
1:C:400:ALA:HB3	1:D:395:PRO:HB2	1.90	0.52
1:B:602:GLY:O	1:B:603:GLN:C	2.48	0.52
1:J:643:ASN:O	1:J:647:ALA:HB2	2.09	0.52
1:B:43:ASP:OD1	1:B:327:GLN:OE1	2.28	0.52
1:A:26:ARG:HE	1:A:26:ARG:HA	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:444:LEU:C	1:C:446:THR:H	2.13	0.52
1:K:209:PHE:N	1:K:210:PRO:CD	2.72	0.52
1:K:546:THR:HG23	1:K:547:PRO:CD	2.29	0.52
1:C:41:TRP:CG	1:C:42:ASP:N	2.77	0.52
1:K:427:GLY:C	1:K:429:GLN:N	2.60	0.52
1:F:584:PRO:CG	1:F:590:GLN:HG2	2.39	0.52
1:D:565:VAL:O	1:D:569:ARG:HB3	2.08	0.52
1:A:161:ASN:HD22	1:A:161:ASN:C	2.12	0.52
1:H:63:VAL:O	1:H:66:LYS:HB3	2.09	0.52
1:F:352:TRP:CG	1:G:376:ARG:HB2	2.44	0.52
1:H:111:VAL:O	1:H:115:VAL:HG13	2.08	0.52
1:I:602:GLY:O	1:I:603:GLN:C	2.48	0.52
1:C:602:GLY:O	1:C:603:GLN:C	2.48	0.52
1:L:269:ARG:HH11	1:L:270:GLN:H	1.58	0.52
1:F:643:ASN:O	1:F:647:ALA:HB2	2.09	0.52
1:E:266:ILE:HG23	1:E:267:ALA:N	2.23	0.52
1:D:266:ILE:HG23	1:D:267:ALA:N	2.24	0.52
1:A:27:ARG:NH1	1:B:211:TRP:CB	2.72	0.52
1:C:554:LEU:HD21	1:D:564:GLY:CA	2.28	0.52
1:E:363:TYR:OH	1:E:373:LEU:O	2.26	0.52
1:I:78:VAL:CG1	1:I:79:LEU:H	2.22	0.52
1:B:32:ASP:HA	1:B:35:PHE:CD1	2.45	0.52
1:H:161:ASN:HD22	1:H:161:ASN:C	2.12	0.52
1:K:458:ARG:NH2	1:K:500:ALA:CB	2.73	0.52
1:E:71:MET:HE1	1:E:115:VAL:HB	1.92	0.52
1:D:602:GLY:O	1:D:603:GLN:C	2.48	0.52
1:J:400:ALA:HB3	1:K:395:PRO:HB2	1.92	0.52
1:F:269:ARG:HH11	1:F:270:GLN:H	1.58	0.52
1:C:363:TYR:OH	1:C:373:LEU:O	2.26	0.52
1:L:643:ASN:O	1:L:647:ALA:HB2	2.09	0.52
1:H:179:MET:SD	1:H:184:TRP:HA	2.49	0.52
1:L:41:TRP:CG	1:L:42:ASP:N	2.77	0.52
1:D:32:ASP:HA	1:D:35:PHE:CD1	2.45	0.52
1:A:158:TRP:HH2	1:A:302:PRO:HG3	1.71	0.52
1:A:155:HIS:NE2	1:L:312:ASP:OD2	2.43	0.52
1:H:549:TYR:O	1:H:552:LEU:HB3	2.10	0.52
1:F:602:GLY:O	1:F:603:GLN:C	2.48	0.52
1:K:363:TYR:OH	1:K:373:LEU:O	2.26	0.52
1:F:633:GLN:O	1:F:637:ALA:N	2.35	0.52
1:K:171:ARG:HH21	1:L:182:ASN:ND2	2.08	0.52
1:K:266:ILE:HG23	1:K:267:ALA:N	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:32:ASP:HA	1:G:35:PHE:CD1	2.45	0.51
1:K:201:PHE:HA	1:K:283:CYS:SG	2.50	0.51
1:E:32:ASP:HA	1:E:35:PHE:CD1	2.45	0.51
1:K:554:LEU:HD22	1:L:567:MET:HE2	1.91	0.51
1:G:584:PRO:CG	1:G:590:GLN:HG2	2.39	0.51
1:A:602:GLY:O	1:A:603:GLN:C	2.48	0.51
1:H:363:TYR:OH	1:H:373:LEU:O	2.26	0.51
1:J:269:ARG:HH11	1:J:270:GLN:H	1.58	0.51
1:B:643:ASN:O	1:B:647:ALA:HB2	2.09	0.51
1:I:687:ALA:O	1:I:691:LEU:N	2.40	0.51
1:B:352:TRP:HD1	1:C:374:LEU:O	1.92	0.51
1:C:78:VAL:HG11	1:C:444:LEU:HG	1.91	0.51
1:A:14:ARG:NE	1:A:14:ARG:CA	2.71	0.51
1:F:14:ARG:NE	1:F:14:ARG:CA	2.71	0.51
1:G:41:TRP:CE3	1:G:42:ASP:N	2.79	0.51
1:J:32:ASP:HA	1:J:35:PHE:CD1	2.45	0.51
1:A:227:GLU:HA	1:A:274:ARG:CA	2.40	0.51
1:D:41:TRP:CE3	1:D:42:ASP:N	2.79	0.51
1:F:32:ASP:HA	1:F:35:PHE:CD1	2.45	0.51
1:A:41:TRP:CE3	1:A:42:ASP:N	2.79	0.51
1:C:27:ARG:CG	1:D:212:LEU:HD13	2.34	0.51
1:E:26:ARG:HE	1:E:26:ARG:HA	1.74	0.51
1:J:458:ARG:NH2	1:J:500:ALA:CB	2.72	0.51
1:C:458:ARG:NH2	1:C:500:ALA:CB	2.72	0.51
1:D:363:TYR:OH	1:D:373:LEU:O	2.26	0.51
1:I:643:ASN:O	1:I:647:ALA:HB2	2.09	0.51
1:L:179:MET:SD	1:L:184:TRP:HA	2.49	0.51
1:J:78:VAL:HG11	1:J:444:LEU:HG	1.91	0.51
1:C:201:PHE:HA	1:C:283:CYS:SG	2.50	0.51
1:D:11:ILE:HD12	1:D:285:ALA:CA	2.31	0.51
1:G:43:ASP:OD1	1:G:327:GLN:OE1	2.28	0.51
1:I:43:ASP:OD1	1:I:327:GLN:OE1	2.28	0.51
1:G:577:ILE:HG12	1:G:582:LYS:CG	2.36	0.51
1:G:352:TRP:HD1	1:H:374:LEU:O	1.93	0.51
1:L:602:GLY:O	1:L:603:GLN:C	2.48	0.51
1:A:269:ARG:HH11	1:A:270:GLN:H	1.58	0.51
1:J:352:TRP:HD1	1:K:374:LEU:O	1.94	0.51
1:D:127:ARG:O	1:D:128:LEU:HD23	2.08	0.51
1:C:443:ASP:C	1:C:444:LEU:HD13	2.29	0.51
1:E:549:TYR:O	1:E:552:LEU:HB3	2.11	0.51
1:J:227:GLU:HA	1:J:274:ARG:CA	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:43:ASP:OD1	1:L:327:GLN:OE1	2.28	0.51
1:L:32:ASP:HA	1:L:35:PHE:CD1	2.45	0.51
1:F:41:TRP:CE3	1:F:42:ASP:N	2.78	0.51
1:H:32:ASP:HA	1:H:35:PHE:CD1	2.45	0.51
1:A:32:ASP:HA	1:A:35:PHE:CD1	2.45	0.51
1:B:49:THR:O	1:B:49:THR:CG2	2.54	0.51
1:D:438:LEU:HD11	1:E:108:LYS:CD	2.37	0.51
1:F:549:TYR:O	1:F:552:LEU:HB3	2.10	0.51
1:B:309:PHE:HB2	1:C:150:HIS:ND1	2.25	0.51
1:J:78:VAL:CG1	1:J:79:LEU:H	2.22	0.51
1:A:444:LEU:C	1:A:446:THR:H	2.13	0.51
1:I:78:VAL:HG11	1:I:444:LEU:HG	1.91	0.51
1:I:201:PHE:HA	1:I:283:CYS:SG	2.50	0.51
1:E:92:ASP:HB3	1:F:561:ASP:OD2	2.10	0.51
1:H:208:VAL:HG12	1:H:210:PRO:HD3	1.91	0.51
1:I:41:TRP:CE3	1:I:42:ASP:N	2.79	0.51
1:H:43:ASP:OD1	1:H:327:GLN:OE1	2.28	0.51
1:K:143:VAL:HG12	1:K:144:ILE:N	2.26	0.51
1:C:158:TRP:HE3	1:C:173:CYS:SG	2.34	0.51
1:B:549:TYR:O	1:B:552:LEU:HB3	2.11	0.51
1:L:549:TYR:O	1:L:552:LEU:HB3	2.11	0.51
1:J:602:GLY:O	1:J:603:GLN:C	2.48	0.51
1:G:269:ARG:HH11	1:G:270:GLN:H	1.58	0.51
1:B:191:TYR:HE1	1:B:278:LYS:HZ3	1.57	0.51
1:F:78:VAL:HG11	1:F:444:LEU:HG	1.91	0.51
1:E:444:LEU:C	1:E:446:THR:H	2.13	0.51
1:H:14:ARG:CA	1:H:14:ARG:NE	2.71	0.51
1:D:273:ARG:HH22	1:D:453:LEU:HD21	1.76	0.51
1:C:32:ASP:HA	1:C:35:PHE:CD1	2.45	0.51
1:C:41:TRP:CE3	1:C:42:ASP:N	2.79	0.51
1:I:158:TRP:HH2	1:I:302:PRO:HG3	1.71	0.51
1:I:549:TYR:O	1:I:552:LEU:HB3	2.11	0.51
1:D:269:ARG:HH11	1:D:270:GLN:H	1.58	0.51
1:B:269:ARG:HH11	1:B:270:GLN:H	1.58	0.51
1:H:633:GLN:O	1:H:637:ALA:N	2.35	0.51
1:B:687:ALA:O	1:B:691:LEU:N	2.39	0.51
1:H:700:GLN:O	1:H:701:ARG:C	2.49	0.51
1:I:700:GLN:O	1:I:701:ARG:C	2.49	0.51
1:F:80:TYR:CE1	1:F:448:VAL:HG22	2.46	0.51
1:J:80:TYR:CE1	1:J:448:VAL:HG22	2.46	0.51
1:D:352:TRP:NE1	1:E:385:PRO:HG2	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:444:LEU:C	1:H:446:THR:H	2.13	0.51
1:G:78:VAL:CG1	1:G:79:LEU:H	2.22	0.51
1:G:40:GLN:O	1:G:41:TRP:CB	2.56	0.51
1:G:273:ARG:HH22	1:G:453:LEU:HD21	1.76	0.51
1:K:41:TRP:CE3	1:K:42:ASP:N	2.79	0.51
1:L:143:VAL:HG12	1:L:144:ILE:N	2.26	0.51
1:F:160:SER:O	1:F:161:ASN:ND2	2.44	0.51
1:L:158:TRP:O	1:L:160:SER:N	2.44	0.51
1:D:549:TYR:O	1:D:552:LEU:HB3	2.11	0.51
1:J:363:TYR:OH	1:J:373:LEU:O	2.26	0.51
1:E:43:ASP:OD1	1:E:327:GLN:OE1	2.28	0.51
1:L:126:TRP:HB2	1:L:147:GLU:O	2.11	0.51
1:B:309:PHE:HB2	1:C:150:HIS:CG	2.45	0.51
1:G:700:GLN:O	1:G:701:ARG:C	2.49	0.51
1:D:89:ASP:HA	1:E:561:ASP:CB	2.38	0.51
1:D:80:TYR:CE1	1:D:448:VAL:HG22	2.46	0.51
1:B:80:TYR:CE1	1:B:448:VAL:HG22	2.46	0.51
1:G:444:LEU:C	1:G:446:THR:H	2.13	0.51
1:G:80:TYR:CE1	1:G:448:VAL:HG22	2.46	0.51
1:B:248:LYS:NZ	1:B:513:ARG:HH12	2.09	0.51
1:K:273:ARG:HH22	1:K:453:LEU:HD21	1.76	0.51
1:B:201:PHE:HA	1:B:283:CYS:SG	2.50	0.51
1:A:43:ASP:OD1	1:A:327:GLN:OE1	2.28	0.51
1:E:41:TRP:CE3	1:E:42:ASP:N	2.79	0.51
1:L:577:ILE:HG12	1:L:582:LYS:CG	2.36	0.51
1:H:158:TRP:O	1:H:160:SER:N	2.44	0.51
1:K:160:SER:O	1:K:161:ASN:ND2	2.44	0.51
1:E:158:TRP:O	1:E:160:SER:N	2.44	0.51
1:G:158:TRP:O	1:G:160:SER:N	2.44	0.51
1:J:383:ASP:C	1:J:385:PRO:HD3	2.32	0.51
1:H:602:GLY:O	1:H:603:GLN:C	2.48	0.51
1:E:198:ILE:O	1:E:198:ILE:HG22	2.11	0.51
1:L:700:GLN:O	1:L:701:ARG:C	2.49	0.51
1:K:700:GLN:O	1:K:701:ARG:C	2.49	0.51
1:B:700:GLN:O	1:B:701:ARG:C	2.49	0.51
1:E:273:ARG:HH22	1:E:453:LEU:HD21	1.76	0.51
1:J:41:TRP:CE3	1:J:42:ASP:N	2.79	0.51
1:A:248:LYS:NZ	1:A:513:ARG:HH12	2.09	0.51
1:D:41:TRP:CG	1:D:42:ASP:N	2.77	0.51
1:G:227:GLU:HA	1:G:274:ARG:CA	2.39	0.51
1:G:248:LYS:NZ	1:G:513:ARG:HH12	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:158:TRP:O	1:C:160:SER:N	2.44	0.51
1:C:158:TRP:HH2	1:C:302:PRO:HG3	1.71	0.51
1:G:160:SER:O	1:G:161:ASN:ND2	2.44	0.51
1:G:158:TRP:HE3	1:G:173:CYS:SG	2.34	0.51
1:E:434:THR:HA	1:E:437:GLN:HG2	1.93	0.51
1:K:269:ARG:HH11	1:K:270:GLN:H	1.58	0.51
1:I:126:TRP:HB2	1:I:147:GLU:O	2.11	0.51
1:D:126:TRP:HB2	1:D:147:GLU:O	2.11	0.51
1:C:84:ASP:OD1	1:D:526:SER:HB2	2.11	0.51
1:E:322:LEU:HD11	1:F:58:ASP:OD2	2.06	0.51
1:C:80:TYR:CE1	1:C:448:VAL:HG22	2.46	0.51
1:E:383:ASP:C	1:E:385:PRO:HD3	2.32	0.51
1:I:80:TYR:CE1	1:I:448:VAL:HG22	2.46	0.51
1:B:273:ARG:HH22	1:B:453:LEU:HD21	1.75	0.51
1:H:41:TRP:CE3	1:H:42:ASP:N	2.78	0.51
1:F:438:LEU:HD11	1:G:108:LYS:NZ	2.26	0.51
1:C:160:SER:O	1:C:161:ASN:ND2	2.44	0.51
1:D:158:TRP:O	1:D:160:SER:N	2.44	0.51
1:D:160:SER:O	1:D:161:ASN:ND2	2.44	0.51
1:A:352:TRP:CD2	1:B:376:ARG:HB2	2.46	0.51
1:K:383:ASP:C	1:K:385:PRO:HD3	2.32	0.51
1:J:549:TYR:O	1:J:552:LEU:HB3	2.10	0.51
1:B:633:GLN:O	1:B:637:ALA:N	2.35	0.51
1:J:126:TRP:HB2	1:J:147:GLU:O	2.11	0.51
1:L:434:THR:HA	1:L:437:GLN:HG2	1.93	0.50
1:K:80:TYR:CE1	1:K:448:VAL:HG22	2.46	0.50
1:K:78:VAL:CG1	1:K:79:LEU:H	2.22	0.50
1:B:444:LEU:C	1:B:446:THR:H	2.13	0.50
1:B:78:VAL:CG1	1:B:79:LEU:H	2.22	0.50
1:B:14:ARG:CA	1:B:14:ARG:NE	2.71	0.50
1:H:248:LYS:NZ	1:H:513:ARG:HH12	2.09	0.50
1:B:41:TRP:CE3	1:B:42:ASP:N	2.78	0.50
1:C:27:ARG:NH1	1:D:211:TRP:HB3	2.25	0.50
1:E:143:VAL:HG12	1:E:144:ILE:N	2.26	0.50
1:A:584:PRO:CG	1:A:590:GLN:HG2	2.39	0.50
1:H:143:VAL:HG12	1:H:144:ILE:N	2.26	0.50
1:B:158:TRP:O	1:B:160:SER:N	2.44	0.50
1:B:160:SER:O	1:B:161:ASN:ND2	2.44	0.50
1:K:158:TRP:O	1:K:160:SER:N	2.44	0.50
1:A:158:TRP:HE3	1:A:173:CYS:SG	2.34	0.50
1:L:383:ASP:C	1:L:385:PRO:HD3	2.32	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:198:ILE:HG22	1:L:198:ILE:O	2.11	0.50
1:H:436:ASN:O	1:H:439:ASN:N	2.45	0.50
1:H:71:MET:HE1	1:H:115:VAL:HB	1.92	0.50
1:G:549:TYR:O	1:G:552:LEU:HB3	2.11	0.50
1:H:269:ARG:HH11	1:H:270:GLN:H	1.58	0.50
1:F:126:TRP:HB2	1:F:147:GLU:O	2.11	0.50
1:H:126:TRP:HB2	1:H:147:GLU:O	2.11	0.50
1:E:687:ALA:O	1:E:691:LEU:N	2.40	0.50
1:J:444:LEU:C	1:J:446:THR:H	2.13	0.50
1:L:80:TYR:CE1	1:L:448:VAL:HG22	2.46	0.50
1:I:11:ILE:O	1:I:15:PHE:HB2	2.12	0.50
1:L:45:LEU:CD2	1:L:328:ARG:NH2	2.75	0.50
1:L:41:TRP:CE3	1:L:42:ASP:N	2.79	0.50
1:J:586:THR:N	1:J:587:PRO:CD	2.75	0.50
1:C:143:VAL:HG12	1:C:144:ILE:N	2.26	0.50
1:F:158:TRP:HE3	1:F:173:CYS:SG	2.34	0.50
1:F:158:TRP:O	1:F:160:SER:N	2.44	0.50
1:H:158:TRP:HE3	1:H:173:CYS:SG	2.34	0.50
1:K:158:TRP:HE3	1:K:173:CYS:SG	2.34	0.50
1:J:158:TRP:HE3	1:J:173:CYS:SG	2.34	0.50
1:I:66:LYS:HZ3	1:I:420:VAL:CG1	2.24	0.50
1:A:434:THR:HA	1:A:437:GLN:HG2	1.93	0.50
1:I:383:ASP:C	1:I:385:PRO:HD3	2.32	0.50
1:K:434:THR:HA	1:K:437:GLN:HG2	1.93	0.50
1:D:700:GLN:O	1:D:701:ARG:C	2.49	0.50
1:I:363:TYR:OH	1:I:373:LEU:O	2.26	0.50
1:J:700:GLN:O	1:J:701:ARG:C	2.49	0.50
1:L:80:TYR:CE2	1:L:94:LEU:HD22	2.47	0.50
1:H:80:TYR:CE1	1:H:448:VAL:HG22	2.46	0.50
1:C:11:ILE:O	1:C:15:PHE:HB2	2.12	0.50
1:A:11:ILE:O	1:A:15:PHE:HB2	2.12	0.50
1:D:11:ILE:O	1:D:15:PHE:HB2	2.12	0.50
1:D:14:ARG:CA	1:D:14:ARG:NE	2.71	0.50
1:I:273:ARG:HH22	1:I:453:LEU:HD21	1.76	0.50
1:L:11:ILE:O	1:L:15:PHE:HB2	2.12	0.50
1:K:45:LEU:CD2	1:K:328:ARG:NH2	2.75	0.50
1:G:586:THR:N	1:G:587:PRO:CD	2.75	0.50
1:D:434:THR:HA	1:D:437:GLN:HG2	1.93	0.50
1:B:386:THR:O	1:B:387:GLN:C	2.50	0.50
1:E:269:ARG:HH11	1:E:270:GLN:H	1.58	0.50
1:H:386:THR:O	1:H:387:GLN:C	2.50	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:126:TRP:HB2	1:A:147:GLU:O	2.11	0.50
1:B:593:LEU:O	1:B:595:GLU:N	2.45	0.50
1:J:560:LEU:O	1:J:565:VAL:HG21	2.12	0.50
1:D:444:LEU:C	1:D:446:THR:H	2.13	0.50
1:B:78:VAL:HG22	1:B:444:LEU:HD21	1.94	0.50
1:B:80:TYR:CE2	1:B:94:LEU:HD22	2.47	0.50
1:A:549:TYR:O	1:A:552:LEU:HB3	2.10	0.50
1:G:11:ILE:HD12	1:G:285:ALA:CA	2.31	0.50
1:J:248:LYS:NZ	1:J:513:ARG:HH12	2.09	0.50
1:I:248:LYS:NZ	1:I:513:ARG:HH12	2.09	0.50
1:C:248:LYS:NZ	1:C:513:ARG:HH12	2.09	0.50
1:H:11:ILE:O	1:H:15:PHE:HB2	2.12	0.50
1:F:248:LYS:NZ	1:F:513:ARG:HH12	2.09	0.50
1:D:27:ARG:CZ	1:E:211:TRP:CB	2.89	0.50
1:L:209:PHE:N	1:L:210:PRO:CD	2.72	0.50
1:H:138:THR:HG23	1:H:143:VAL:CG2	2.37	0.50
1:G:138:THR:HG23	1:G:143:VAL:CG2	2.37	0.50
1:D:158:TRP:HE3	1:D:173:CYS:SG	2.34	0.50
1:L:158:TRP:HE3	1:L:173:CYS:SG	2.34	0.50
1:C:383:ASP:C	1:C:385:PRO:HD3	2.32	0.50
1:G:404:MET:CE	1:H:337:ASN:HB2	2.42	0.50
1:B:126:TRP:HB2	1:B:147:GLU:O	2.11	0.50
1:E:126:TRP:HB2	1:E:147:GLU:O	2.11	0.50
1:K:386:THR:O	1:K:387:GLN:C	2.50	0.50
1:G:209:PHE:N	1:G:210:PRO:CD	2.72	0.50
1:E:80:TYR:CE2	1:E:94:LEU:HD22	2.47	0.50
1:H:434:THR:HA	1:H:437:GLN:HG2	1.93	0.50
1:H:78:VAL:HG22	1:H:444:LEU:HD21	1.94	0.50
1:C:560:LEU:O	1:C:565:VAL:HG21	2.12	0.50
1:C:227:GLU:HA	1:C:274:ARG:CA	2.39	0.50
1:L:38:VAL:O	1:L:43:ASP:OD2	2.30	0.50
1:K:11:ILE:O	1:K:15:PHE:HB2	2.12	0.50
1:J:143:VAL:HG12	1:J:144:ILE:N	2.26	0.50
1:H:586:THR:N	1:H:587:PRO:CD	2.75	0.50
1:G:143:VAL:HG12	1:G:144:ILE:N	2.26	0.50
1:A:350:PHE:CE1	1:B:372:TYR:CB	2.94	0.50
1:J:160:SER:O	1:J:161:ASN:ND2	2.44	0.50
1:G:198:ILE:O	1:G:198:ILE:HG22	2.11	0.50
1:K:549:TYR:O	1:K:552:LEU:HB3	2.11	0.50
1:G:386:THR:O	1:G:387:GLN:C	2.50	0.50
1:H:231:THR:CG2	1:H:249:ARG:HE	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:231:THR:CG2	1:G:249:ARG:HE	2.25	0.50
1:C:643:ASN:O	1:C:647:ALA:N	2.36	0.50
1:B:198:ILE:HG22	1:B:198:ILE:O	2.11	0.50
1:H:593:LEU:O	1:H:595:GLU:N	2.45	0.50
1:E:171:ARG:HH21	1:F:182:ASN:ND2	2.10	0.50
1:A:386:THR:O	1:A:387:GLN:C	2.50	0.50
1:H:560:LEU:O	1:H:565:VAL:HG21	2.12	0.50
1:J:434:THR:HA	1:J:437:GLN:HG2	1.93	0.50
1:D:80:TYR:CE2	1:D:94:LEU:HD22	2.47	0.50
1:A:78:VAL:HG22	1:A:444:LEU:HD21	1.94	0.50
1:I:560:LEU:O	1:I:565:VAL:HG21	2.12	0.50
1:I:80:TYR:CE2	1:I:94:LEU:HD22	2.47	0.50
1:K:248:LYS:NZ	1:K:513:ARG:HH12	2.09	0.50
1:E:11:ILE:O	1:E:15:PHE:HB2	2.12	0.50
1:I:32:ASP:HA	1:I:35:PHE:CD1	2.45	0.50
1:E:45:LEU:CD2	1:E:328:ARG:NH2	2.75	0.50
1:E:584:PRO:CG	1:E:590:GLN:HG2	2.39	0.50
1:F:577:ILE:HG12	1:F:582:LYS:CG	2.36	0.50
1:K:577:ILE:HG12	1:K:582:LYS:CG	2.36	0.50
1:A:160:SER:O	1:A:161:ASN:ND2	2.44	0.50
1:E:158:TRP:HE3	1:E:173:CYS:SG	2.34	0.50
1:I:158:TRP:O	1:I:160:SER:N	2.44	0.50
1:H:383:ASP:C	1:H:385:PRO:HD3	2.32	0.50
1:A:383:ASP:C	1:A:385:PRO:HD3	2.32	0.50
1:K:348:LYS:HB2	1:L:372:TYR:CE2	2.46	0.50
1:C:549:TYR:O	1:C:552:LEU:HB3	2.11	0.50
1:E:38:VAL:O	1:E:43:ASP:OD2	2.30	0.50
1:I:593:LEU:O	1:I:595:GLU:N	2.45	0.50
1:D:593:LEU:O	1:D:595:GLU:N	2.45	0.50
1:E:390:ALA:CB	1:F:387:GLN:HB2	2.41	0.50
1:D:58:ASP:O	1:D:58:ASP:OD1	2.30	0.50
1:K:444:LEU:C	1:K:446:THR:H	2.13	0.50
1:G:80:TYR:CE2	1:G:94:LEU:HD22	2.47	0.50
1:I:78:VAL:HG22	1:I:444:LEU:HD21	1.94	0.50
1:C:11:ILE:HD12	1:C:285:ALA:CA	2.31	0.50
1:G:11:ILE:O	1:G:15:PHE:HB2	2.12	0.50
1:E:248:LYS:NZ	1:E:513:ARG:HH12	2.09	0.50
1:C:273:ARG:HH22	1:C:453:LEU:HD21	1.76	0.50
1:A:273:ARG:HH22	1:A:453:LEU:HD21	1.76	0.50
1:H:45:LEU:CD2	1:H:328:ARG:NH2	2.75	0.50
1:A:586:THR:N	1:A:587:PRO:CD	2.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:158:TRP:HE3	1:B:173:CYS:SG	2.34	0.50
1:I:158:TRP:HE3	1:I:173:CYS:SG	2.34	0.50
1:G:66:LYS:HZ3	1:G:420:VAL:CG1	2.25	0.50
1:B:383:ASP:C	1:B:385:PRO:HD3	2.32	0.50
1:D:198:ILE:O	1:D:198:ILE:HG22	2.11	0.50
1:F:383:ASP:C	1:F:385:PRO:HD3	2.32	0.50
1:B:434:THR:HA	1:B:437:GLN:HG2	1.94	0.50
1:K:602:GLY:O	1:K:603:GLN:C	2.48	0.50
1:D:231:THR:CG2	1:D:249:ARG:HE	2.25	0.50
1:C:633:GLN:O	1:C:637:ALA:N	2.35	0.50
1:J:633:GLN:O	1:J:637:ALA:N	2.35	0.50
1:I:643:ASN:O	1:I:647:ALA:N	2.36	0.50
1:G:191:TYR:HE1	1:G:278:LYS:HZ3	1.58	0.50
1:L:58:ASP:O	1:L:58:ASP:OD1	2.30	0.50
1:F:80:TYR:CE2	1:F:94:LEU:HD22	2.47	0.50
1:C:434:THR:HA	1:C:437:GLN:HG2	1.93	0.50
1:H:80:TYR:CE2	1:H:94:LEU:HD22	2.47	0.50
1:J:28:GLU:HB2	1:J:313:LYS:HZ2	1.76	0.50
1:H:415:VAL:HA	1:I:62:PRO:HG3	1.94	0.50
1:K:14:ARG:NE	1:K:14:ARG:CA	2.71	0.50
1:B:227:GLU:HA	1:B:274:ARG:CA	2.39	0.50
1:H:273:ARG:HH22	1:H:453:LEU:HD21	1.76	0.50
1:F:45:LEU:CD2	1:F:328:ARG:NH2	2.75	0.50
1:I:45:LEU:CD2	1:I:328:ARG:NH2	2.75	0.50
1:I:38:VAL:O	1:I:43:ASP:OD2	2.30	0.50
1:A:45:LEU:CD2	1:A:328:ARG:NH2	2.75	0.50
1:C:28:GLU:HB2	1:C:313:LYS:HZ2	1.77	0.50
1:D:586:THR:N	1:D:587:PRO:CD	2.75	0.50
1:C:66:LYS:HZ1	1:C:420:VAL:HG11	1.77	0.50
1:J:158:TRP:O	1:J:160:SER:N	2.44	0.50
1:L:160:SER:O	1:L:161:ASN:ND2	2.44	0.50
1:L:386:THR:O	1:L:387:GLN:C	2.50	0.50
1:L:436:ASN:O	1:L:439:ASN:N	2.45	0.50
1:A:700:GLN:O	1:A:701:ARG:C	2.49	0.50
1:C:58:ASP:O	1:C:58:ASP:OD1	2.30	0.50
1:J:434:THR:HA	1:J:437:GLN:CG	2.42	0.50
1:K:80:TYR:CE2	1:K:94:LEU:HD22	2.47	0.50
1:A:80:TYR:CE1	1:A:448:VAL:HG22	2.46	0.50
1:J:11:ILE:O	1:J:15:PHE:HB2	2.12	0.50
1:L:227:GLU:HA	1:L:274:ARG:CA	2.39	0.50
1:L:586:THR:N	1:L:587:PRO:CD	2.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:577:ILE:HG12	1:C:582:LYS:CG	2.36	0.50
1:C:586:THR:N	1:C:587:PRO:CD	2.75	0.50
1:H:160:SER:O	1:H:161:ASN:ND2	2.44	0.50
1:I:434:THR:HA	1:I:437:GLN:HG2	1.93	0.50
1:A:434:THR:HA	1:A:437:GLN:CG	2.42	0.50
1:G:383:ASP:C	1:G:385:PRO:HD3	2.32	0.50
1:K:350:PHE:HA	1:L:372:TYR:O	2.12	0.50
1:L:456:ALA:HB1	1:L:509:ASP:OD2	2.12	0.50
1:B:38:VAL:O	1:B:43:ASP:OD2	2.30	0.50
1:J:198:ILE:HG22	1:J:198:ILE:O	2.11	0.50
1:C:593:LEU:O	1:C:595:GLU:N	2.45	0.50
1:K:309:PHE:HB2	1:L:150:HIS:CG	2.47	0.50
1:K:687:ALA:O	1:K:691:LEU:N	2.40	0.50
1:C:700:GLN:O	1:C:701:ARG:C	2.49	0.50
1:J:58:ASP:O	1:J:58:ASP:OD1	2.30	0.49
1:J:80:TYR:CE2	1:J:94:LEU:HD22	2.47	0.49
1:A:236:GLN:HE21	1:A:265:LYS:HZ1	1.59	0.49
1:J:273:ARG:HH22	1:J:453:LEU:HD21	1.76	0.49
1:D:227:GLU:HA	1:D:274:ARG:CA	2.39	0.49
1:J:45:LEU:CD2	1:J:328:ARG:NH2	2.75	0.49
1:D:45:LEU:CD2	1:D:328:ARG:NH2	2.75	0.49
1:F:11:ILE:O	1:F:15:PHE:HB2	2.12	0.49
1:B:45:LEU:CD2	1:B:328:ARG:NH2	2.75	0.49
1:C:209:PHE:N	1:C:210:PRO:CD	2.72	0.49
1:I:209:PHE:N	1:I:210:PRO:CD	2.72	0.49
1:B:363:TYR:OH	1:B:373:LEU:O	2.26	0.49
1:F:434:THR:HA	1:F:437:GLN:CG	2.42	0.49
1:A:158:TRP:O	1:A:160:SER:N	2.44	0.49
1:I:160:SER:O	1:I:161:ASN:ND2	2.44	0.49
1:E:411:ALA:CB	1:F:57:PHE:HD1	2.25	0.49
1:D:456:ALA:HB1	1:D:509:ASP:OD2	2.12	0.49
1:G:126:TRP:HB2	1:G:147:GLU:O	2.11	0.49
1:C:126:TRP:HB2	1:C:147:GLU:O	2.11	0.49
1:F:198:ILE:O	1:F:198:ILE:HG22	2.11	0.49
1:A:191:TYR:HE1	1:A:278:LYS:HZ3	1.58	0.49
1:E:80:TYR:CE1	1:E:448:VAL:HG22	2.46	0.49
1:L:248:LYS:NZ	1:L:513:ARG:HH12	2.09	0.49
1:L:273:ARG:HH22	1:L:453:LEU:HD21	1.76	0.49
1:F:560:LEU:O	1:F:565:VAL:HG21	2.12	0.49
1:J:38:VAL:O	1:J:43:ASP:OD2	2.30	0.49
1:H:38:VAL:O	1:H:43:ASP:OD2	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:209:PHE:N	1:F:210:PRO:CD	2.72	0.49
1:E:586:THR:N	1:E:587:PRO:CD	2.75	0.49
1:B:586:THR:N	1:B:587:PRO:CD	2.75	0.49
1:K:586:THR:N	1:K:587:PRO:CD	2.75	0.49
1:I:434:THR:HA	1:I:437:GLN:CG	2.42	0.49
1:C:49:THR:O	1:C:49:THR:CG2	2.54	0.49
1:B:310:VAL:C	1:B:312:ASP:N	2.66	0.49
1:E:602:GLY:O	1:E:603:GLN:C	2.48	0.49
1:C:386:THR:O	1:C:387:GLN:C	2.50	0.49
1:G:593:LEU:O	1:G:595:GLU:N	2.45	0.49
1:F:58:ASP:OD1	1:F:58:ASP:O	2.30	0.49
1:D:78:VAL:HG22	1:D:444:LEU:HD21	1.94	0.49
1:L:434:THR:HA	1:L:437:GLN:CG	2.42	0.49
1:C:80:TYR:CE2	1:C:94:LEU:HD22	2.47	0.49
1:E:227:GLU:HA	1:E:274:ARG:CA	2.39	0.49
1:C:45:LEU:CD2	1:C:328:ARG:NH2	2.75	0.49
1:L:560:LEU:O	1:L:565:VAL:HG21	2.12	0.49
1:K:198:ILE:O	1:K:198:ILE:HG22	2.11	0.49
1:K:436:ASN:O	1:K:439:ASN:N	2.45	0.49
1:G:456:ALA:HB1	1:G:509:ASP:OD2	2.12	0.49
1:J:231:THR:CG2	1:J:249:ARG:HE	2.25	0.49
1:B:456:ALA:HB1	1:B:509:ASP:OD2	2.12	0.49
1:G:602:GLY:O	1:G:603:GLN:C	2.48	0.49
1:I:231:THR:CG2	1:I:249:ARG:HE	2.25	0.49
1:E:456:ALA:HB1	1:E:509:ASP:OD2	2.12	0.49
1:K:231:THR:CG2	1:K:249:ARG:HE	2.25	0.49
1:C:191:TYR:HE1	1:C:278:LYS:HZ3	1.59	0.49
1:G:541:LYS:HD3	1:G:542:THR:HG23	1.95	0.49
1:B:541:LYS:HD3	1:B:542:THR:HG23	1.95	0.49
1:D:541:LYS:HD3	1:D:542:THR:HG23	1.95	0.49
1:I:58:ASP:O	1:I:58:ASP:OD1	2.30	0.49
1:B:58:ASP:O	1:B:58:ASP:OD1	2.30	0.49
1:F:78:VAL:HG22	1:F:444:LEU:HD21	1.94	0.49
1:A:80:TYR:CE2	1:A:94:LEU:HD22	2.47	0.49
1:E:78:VAL:HG22	1:E:444:LEU:HD21	1.94	0.49
1:G:78:VAL:HG22	1:G:444:LEU:HD21	1.94	0.49
1:K:227:GLU:HA	1:K:274:ARG:CA	2.39	0.49
1:G:35:PHE:HE2	1:G:324:LYS:HZ3	1.61	0.49
1:F:273:ARG:HH22	1:F:453:LEU:HD21	1.76	0.49
1:A:577:ILE:HG12	1:A:582:LYS:CG	2.36	0.49
1:A:143:VAL:HG12	1:A:144:ILE:N	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:198:ILE:O	1:H:198:ILE:HG22	2.11	0.49
1:E:436:ASN:O	1:E:439:ASN:N	2.45	0.49
1:C:269:ARG:HH11	1:C:270:GLN:H	1.58	0.49
1:K:126:TRP:HB2	1:K:147:GLU:O	2.11	0.49
1:F:386:THR:O	1:F:387:GLN:C	2.50	0.49
1:L:593:LEU:O	1:L:595:GLU:N	2.45	0.49
1:C:198:ILE:HG22	1:C:198:ILE:O	2.11	0.49
1:A:198:ILE:O	1:A:198:ILE:HG22	2.11	0.49
1:J:386:THR:O	1:J:387:GLN:C	2.50	0.49
1:J:593:LEU:O	1:J:595:GLU:N	2.45	0.49
1:K:560:LEU:O	1:K:565:VAL:HG21	2.12	0.49
1:H:227:GLU:HA	1:H:274:ARG:CA	2.39	0.49
1:H:209:PHE:N	1:H:210:PRO:CD	2.72	0.49
1:F:227:GLU:HA	1:F:274:ARG:CA	2.39	0.49
1:F:143:VAL:HG12	1:F:144:ILE:N	2.26	0.49
1:I:143:VAL:HG12	1:I:144:ILE:N	2.26	0.49
1:I:586:THR:N	1:I:587:PRO:CD	2.75	0.49
1:B:143:VAL:HG12	1:B:144:ILE:N	2.26	0.49
1:F:434:THR:HA	1:F:437:GLN:HG2	1.93	0.49
1:E:160:SER:O	1:E:161:ASN:ND2	2.44	0.49
1:K:378:ASP:OD2	1:L:376:ARG:NH2	2.45	0.49
1:K:352:TRP:HZ2	1:L:385:PRO:HG2	1.78	0.49
1:D:434:THR:HA	1:D:437:GLN:CG	2.42	0.49
1:J:436:ASN:O	1:J:439:ASN:N	2.45	0.49
1:C:456:ALA:HB1	1:C:509:ASP:OD2	2.12	0.49
1:I:350:PHE:HE1	1:J:363:TYR:HE1	1.60	0.49
1:I:386:THR:O	1:I:387:GLN:C	2.50	0.49
1:F:593:LEU:O	1:F:595:GLU:N	2.45	0.49
1:K:593:LEU:O	1:K:595:GLU:N	2.45	0.49
1:A:593:LEU:O	1:A:595:GLU:N	2.45	0.49
1:A:58:ASP:OD1	1:A:58:ASP:O	2.30	0.49
1:E:560:LEU:O	1:E:565:VAL:HG21	2.12	0.49
1:A:27:ARG:NH1	1:B:211:TRP:HB3	2.26	0.49
1:G:434:THR:HA	1:G:437:GLN:CG	2.42	0.49
1:C:14:ARG:NE	1:C:14:ARG:CA	2.71	0.49
1:D:138:THR:HG23	1:D:143:VAL:CG2	2.37	0.49
1:K:138:THR:HG23	1:K:143:VAL:CG2	2.37	0.49
1:B:434:THR:HA	1:B:437:GLN:CG	2.42	0.49
1:K:434:THR:HA	1:K:437:GLN:CG	2.42	0.49
1:E:401:ASN:OD1	1:F:341:VAL:HG13	2.12	0.49
1:D:360:GLU:CB	1:E:371:TYR:OH	2.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:363:TYR:OH	1:L:373:LEU:O	2.26	0.49
1:B:231:THR:CG2	1:B:249:ARG:HE	2.25	0.49
1:C:231:THR:CG2	1:C:249:ARG:HE	2.25	0.49
1:A:456:ALA:HB1	1:A:509:ASP:OD2	2.12	0.49
1:J:456:ALA:HB1	1:J:509:ASP:OD2	2.12	0.49
1:L:231:THR:CG2	1:L:249:ARG:HE	2.25	0.49
1:E:700:GLN:O	1:E:701:ARG:C	2.49	0.49
1:E:593:LEU:O	1:E:595:GLU:N	2.45	0.49
1:G:58:ASP:O	1:G:58:ASP:OD1	2.30	0.49
1:L:164:LEU:HA	1:L:307:TRP:CH2	2.48	0.49
1:C:165:MET:HE3	1:C:435:VAL:HB	1.95	0.49
1:G:434:THR:HA	1:G:437:GLN:HG2	1.93	0.49
1:G:45:LEU:CD2	1:G:328:ARG:NH2	2.75	0.49
1:B:11:ILE:O	1:B:15:PHE:HB2	2.12	0.49
1:K:38:VAL:O	1:K:43:ASP:OD2	2.30	0.49
1:J:101:ASP:CB	1:J:138:THR:HG21	2.43	0.49
1:I:101:ASP:CB	1:I:138:THR:HG21	2.43	0.49
1:E:101:ASP:CB	1:E:138:THR:HG21	2.43	0.49
1:C:138:THR:HG23	1:C:143:VAL:CG2	2.37	0.49
1:D:560:LEU:O	1:D:565:VAL:HG21	2.12	0.49
1:E:434:THR:HA	1:E:437:GLN:CG	2.42	0.49
1:J:310:VAL:C	1:J:312:ASP:N	2.66	0.49
1:F:456:ALA:HB1	1:F:509:ASP:OD2	2.12	0.49
1:I:269:ARG:HH11	1:I:270:GLN:H	1.58	0.49
1:D:386:THR:O	1:D:387:GLN:C	2.50	0.49
1:I:198:ILE:O	1:I:198:ILE:HG22	2.11	0.49
1:H:541:LYS:HD3	1:H:542:THR:HG23	1.94	0.49
1:H:58:ASP:OD1	1:H:58:ASP:O	2.30	0.49
1:A:560:LEU:O	1:A:565:VAL:HG21	2.12	0.49
1:C:78:VAL:HG22	1:C:444:LEU:HD21	1.94	0.49
1:E:551:LEU:O	1:E:554:LEU:HB3	2.13	0.49
1:A:260:ASP:OD1	1:A:264:ILE:HG13	2.13	0.49
1:J:557:PHE:CE2	1:K:563:LYS:HD3	2.47	0.49
1:G:27:ARG:HD2	1:H:212:LEU:H	1.78	0.49
1:D:38:VAL:O	1:D:43:ASP:OD2	2.30	0.49
1:F:323:THR:O	1:F:327:GLN:HB2	2.13	0.49
1:A:209:PHE:N	1:A:210:PRO:CD	2.72	0.49
1:D:143:VAL:HG12	1:D:144:ILE:N	2.26	0.49
1:A:164:LEU:HA	1:A:307:TRP:CH2	2.48	0.49
1:D:383:ASP:C	1:D:385:PRO:HD3	2.32	0.49
1:I:551:LEU:O	1:I:554:LEU:HB3	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:456:ALA:HB1	1:K:509:ASP:OD2	2.12	0.49
1:F:700:GLN:O	1:F:701:ARG:C	2.49	0.49
1:E:541:LYS:HD3	1:E:542:THR:HG23	1.95	0.49
1:B:98:TYR:O	1:B:102:MET:HB2	2.13	0.49
1:B:702:MET:O	1:B:705:ALA:HB3	2.13	0.49
1:A:551:LEU:O	1:A:554:LEU:HB3	2.13	0.49
1:C:260:ASP:OD1	1:C:264:ILE:HG13	2.13	0.49
1:K:554:LEU:HD22	1:L:567:MET:CE	2.42	0.49
1:F:586:THR:N	1:F:587:PRO:CD	2.75	0.49
1:B:101:ASP:CB	1:B:138:THR:HG21	2.43	0.49
1:A:101:ASP:CB	1:A:138:THR:HG21	2.43	0.49
1:H:400:ALA:CB	1:I:395:PRO:HB2	2.43	0.49
1:A:436:ASN:O	1:A:439:ASN:N	2.45	0.49
1:H:456:ALA:HB1	1:H:509:ASP:OD2	2.12	0.49
1:I:541:LYS:HD3	1:I:542:THR:HG23	1.95	0.49
1:G:98:TYR:O	1:G:102:MET:HB2	2.13	0.49
1:H:309:PHE:HB2	1:I:150:HIS:ND1	2.28	0.49
1:G:687:ALA:O	1:G:691:LEU:N	2.40	0.49
1:H:702:MET:O	1:H:705:ALA:HB3	2.13	0.49
1:J:541:LYS:HD3	1:J:542:THR:HG23	1.95	0.49
1:K:58:ASP:O	1:K:58:ASP:OD1	2.30	0.49
1:G:560:LEU:O	1:G:565:VAL:HG21	2.12	0.49
1:H:260:ASP:OD1	1:H:264:ILE:HG13	2.13	0.49
1:L:78:VAL:HG22	1:L:444:LEU:HD21	1.94	0.49
1:B:560:LEU:O	1:B:565:VAL:HG21	2.12	0.49
1:G:14:ARG:NE	1:G:14:ARG:CA	2.71	0.49
1:D:101:ASP:CB	1:D:138:THR:HG21	2.43	0.49
1:K:551:LEU:O	1:K:554:LEU:HB3	2.13	0.49
1:A:350:PHE:CE1	1:B:372:TYR:HB3	2.48	0.49
1:L:158:TRP:HH2	1:L:302:PRO:HG3	1.71	0.49
1:A:310:VAL:C	1:A:312:ASP:N	2.66	0.49
1:B:436:ASN:O	1:B:439:ASN:N	2.45	0.49
1:E:231:THR:CG2	1:E:249:ARG:HE	2.25	0.49
1:A:231:THR:CG2	1:A:249:ARG:HE	2.25	0.49
1:L:246:TYR:CE2	1:L:512:GLY:N	2.81	0.49
1:I:246:TYR:CE2	1:I:512:GLY:N	2.81	0.49
1:C:323:THR:O	1:C:327:GLN:HB2	2.13	0.49
1:L:702:MET:O	1:L:705:ALA:HB3	2.13	0.49
1:J:325:ASP:OD2	1:K:56:GLN:N	2.45	0.48
1:E:58:ASP:OD1	1:E:58:ASP:O	2.30	0.48
1:D:350:PHE:CE1	1:E:363:TYR:HE1	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:434:THR:HA	1:H:437:GLN:CG	2.42	0.48
1:H:323:THR:O	1:H:327:GLN:HB2	2.13	0.48
1:F:101:ASP:CB	1:F:138:THR:HG21	2.43	0.48
1:C:101:ASP:CB	1:C:138:THR:HG21	2.43	0.48
1:A:173:CYS:SG	1:A:298:ILE:HG21	2.53	0.48
1:E:164:LEU:HA	1:E:307:TRP:CH2	2.48	0.48
1:F:363:TYR:OH	1:F:373:LEU:O	2.26	0.48
1:L:687:ALA:O	1:L:691:LEU:N	2.39	0.48
1:L:541:LYS:HD3	1:L:542:THR:HG23	1.95	0.48
1:E:702:MET:O	1:E:705:ALA:HB3	2.13	0.48
1:K:260:ASP:OD1	1:K:264:ILE:HG13	2.13	0.48
1:J:27:ARG:HD2	1:K:212:LEU:H	1.78	0.48
1:I:59:VAL:O	1:I:62:PRO:CD	2.51	0.48
1:F:260:ASP:OD1	1:F:264:ILE:HG13	2.13	0.48
1:A:15:PHE:CE2	1:A:19:TRP:NE1	2.81	0.48
1:D:248:LYS:NZ	1:D:513:ARG:HH12	2.09	0.48
1:E:260:ASP:OD1	1:E:264:ILE:HG13	2.13	0.48
1:D:323:THR:O	1:D:327:GLN:HB2	2.13	0.48
1:B:15:PHE:CE2	1:B:19:TRP:NE1	2.81	0.48
1:K:15:PHE:CE2	1:K:19:TRP:NE1	2.81	0.48
1:F:38:VAL:O	1:F:43:ASP:OD2	2.30	0.48
1:I:323:THR:O	1:I:327:GLN:HB2	2.13	0.48
1:A:38:VAL:O	1:A:43:ASP:OD2	2.30	0.48
1:H:101:ASP:CB	1:H:138:THR:HG21	2.43	0.48
1:F:173:CYS:SG	1:F:298:ILE:HG21	2.54	0.48
1:G:310:VAL:C	1:G:312:ASP:N	2.66	0.48
1:C:306:GLU:OE2	1:D:65:ARG:HG2	2.13	0.48
1:I:456:ALA:HB1	1:I:509:ASP:OD2	2.12	0.48
1:F:231:THR:CG2	1:F:249:ARG:HE	2.25	0.48
1:G:702:MET:O	1:G:705:ALA:HB3	2.13	0.48
1:A:541:LYS:HD3	1:A:542:THR:HG23	1.95	0.48
1:K:98:TYR:O	1:K:102:MET:HB2	2.13	0.48
1:C:434:THR:HA	1:C:437:GLN:CG	2.42	0.48
1:G:238:PRO:HB3	1:G:263:PHE:HB2	1.96	0.48
1:H:164:LEU:HA	1:H:307:TRP:CH2	2.48	0.48
1:J:260:ASP:OD1	1:J:264:ILE:HG13	2.13	0.48
1:F:238:PRO:HB3	1:F:263:PHE:HB2	1.96	0.48
1:L:260:ASP:OD1	1:L:264:ILE:HG13	2.13	0.48
1:J:323:THR:O	1:J:327:GLN:HB2	2.13	0.48
1:H:551:LEU:O	1:H:554:LEU:HB3	2.13	0.48
1:B:173:CYS:SG	1:B:298:ILE:HG21	2.53	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:173:CYS:SG	1:J:298:ILE:HG21	2.53	0.48
1:D:164:LEU:HA	1:D:307:TRP:CH2	2.48	0.48
1:I:436:ASN:O	1:I:439:ASN:N	2.45	0.48
1:F:436:ASN:O	1:F:439:ASN:N	2.45	0.48
1:K:350:PHE:CE1	1:L:363:TYR:HE1	2.27	0.48
1:K:310:VAL:C	1:K:312:ASP:N	2.66	0.48
1:F:390:ALA:HB3	1:G:387:GLN:OE1	2.11	0.48
1:E:633:GLN:O	1:E:637:ALA:N	2.35	0.48
1:E:323:THR:O	1:E:327:GLN:HB2	2.13	0.48
1:B:126:TRP:CD1	1:B:146:ARG:HG3	2.49	0.48
1:C:38:VAL:O	1:C:43:ASP:OD2	2.30	0.48
1:K:126:TRP:CD1	1:K:146:ARG:HG3	2.49	0.48
1:H:126:TRP:CD1	1:H:146:ARG:HG3	2.49	0.48
1:E:98:TYR:O	1:E:102:MET:HB2	2.13	0.48
1:A:98:TYR:O	1:A:102:MET:HB2	2.13	0.48
1:K:238:PRO:HG3	1:K:263:PHE:CB	2.44	0.48
1:J:449:PHE:CD1	1:J:449:PHE:N	2.82	0.48
1:G:238:PRO:HG3	1:G:263:PHE:CB	2.44	0.48
1:G:164:LEU:HA	1:G:307:TRP:CH2	2.48	0.48
1:J:14:ARG:NE	1:J:14:ARG:CA	2.71	0.48
1:L:551:LEU:O	1:L:554:LEU:HB3	2.13	0.48
1:C:15:PHE:CE2	1:C:19:TRP:NE1	2.81	0.48
1:I:262:GLY:O	1:I:263:PHE:HB3	2.14	0.48
1:G:38:VAL:O	1:G:43:ASP:OD2	2.30	0.48
1:J:551:LEU:O	1:J:554:LEU:HB3	2.13	0.48
1:A:323:THR:O	1:A:327:GLN:HB2	2.13	0.48
1:E:386:THR:O	1:E:387:GLN:C	2.50	0.48
1:F:400:ALA:HB2	1:G:395:PRO:HB2	1.94	0.48
1:I:164:LEU:HB2	1:J:109:ILE:HG21	1.96	0.48
1:G:173:CYS:SG	1:G:298:ILE:HG21	2.53	0.48
1:I:173:CYS:SG	1:I:298:ILE:HG21	2.53	0.48
1:K:246:TYR:CE2	1:K:512:GLY:N	2.81	0.48
1:D:702:MET:O	1:D:705:ALA:HB3	2.13	0.48
1:J:98:TYR:O	1:J:102:MET:HB2	2.13	0.48
1:D:687:ALA:O	1:D:691:LEU:N	2.39	0.48
1:L:98:TYR:O	1:L:102:MET:HB2	2.13	0.48
1:K:238:PRO:HB3	1:K:263:PHE:HB2	1.96	0.48
1:E:449:PHE:CD1	1:E:449:PHE:N	2.82	0.48
1:G:15:PHE:CE2	1:G:19:TRP:NE1	2.81	0.48
1:H:15:PHE:CE2	1:H:19:TRP:NE1	2.81	0.48
1:L:15:PHE:CE2	1:L:19:TRP:NE1	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:27:ARG:NH1	1:F:211:TRP:CB	2.77	0.48
1:C:436:ASN:O	1:C:439:ASN:N	2.45	0.48
1:K:312:ASP:OD2	1:L:178:SER:CB	2.61	0.48
1:G:389:LEU:H	1:G:389:LEU:HD12	1.79	0.48
1:D:246:TYR:CE2	1:D:512:GLY:N	2.81	0.48
1:D:126:TRP:CD1	1:D:146:ARG:HG3	2.49	0.48
1:K:389:LEU:H	1:K:389:LEU:HD12	1.79	0.48
1:A:389:LEU:H	1:A:389:LEU:HD12	1.79	0.48
1:I:98:TYR:O	1:I:102:MET:HB2	2.13	0.48
1:K:78:VAL:HG22	1:K:444:LEU:HD21	1.94	0.48
1:B:551:LEU:O	1:B:554:LEU:HB3	2.13	0.48
1:B:449:PHE:CD1	1:B:449:PHE:N	2.82	0.48
1:A:263:PHE:O	1:A:263:PHE:CG	2.65	0.48
1:J:15:PHE:CE2	1:J:19:TRP:NE1	2.81	0.48
1:D:551:LEU:O	1:D:554:LEU:HB3	2.13	0.48
1:L:323:THR:O	1:L:327:GLN:HB2	2.13	0.48
1:E:262:GLY:O	1:E:263:PHE:HB3	2.14	0.48
1:K:323:THR:O	1:K:327:GLN:HB2	2.13	0.48
1:B:260:ASP:OD1	1:B:264:ILE:HG13	2.13	0.48
1:D:585:GLU:HB3	1:D:587:PRO:HD3	1.96	0.48
1:I:438:LEU:HD11	1:J:108:LYS:NZ	2.29	0.48
1:L:173:CYS:SG	1:L:298:ILE:HG21	2.53	0.48
1:J:71:MET:HE1	1:J:115:VAL:HB	1.94	0.48
1:I:310:VAL:C	1:I:312:ASP:N	2.66	0.48
1:B:246:TYR:CE2	1:B:512:GLY:N	2.81	0.48
1:J:238:PRO:HG3	1:J:263:PHE:CB	2.44	0.48
1:J:263:PHE:CG	1:J:263:PHE:O	2.65	0.48
1:D:389:LEU:H	1:D:389:LEU:HD12	1.79	0.48
1:A:702:MET:O	1:A:705:ALA:HB3	2.13	0.48
1:J:78:VAL:HG22	1:J:444:LEU:HD21	1.94	0.48
1:C:449:PHE:CD1	1:C:449:PHE:N	2.82	0.48
1:G:260:ASP:OD1	1:G:264:ILE:HG13	2.13	0.48
1:H:449:PHE:N	1:H:449:PHE:CD1	2.82	0.48
1:I:449:PHE:CD1	1:I:449:PHE:N	2.82	0.48
1:I:15:PHE:CE2	1:I:19:TRP:NE1	2.82	0.48
1:A:262:GLY:O	1:A:263:PHE:HB3	2.14	0.48
1:B:238:PRO:HB3	1:B:263:PHE:HB2	1.96	0.48
1:A:211:TRP:HB3	1:L:27:ARG:CZ	2.44	0.48
1:E:209:PHE:N	1:E:210:PRO:CD	2.72	0.48
1:H:577:ILE:HG12	1:H:582:LYS:CG	2.36	0.48
1:I:585:GLU:HB3	1:I:587:PRO:HD3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:301:VAL:HA	1:C:302:PRO:HD3	1.67	0.48
1:E:173:CYS:SG	1:E:298:ILE:HG21	2.53	0.48
1:G:551:LEU:O	1:G:554:LEU:HB3	2.13	0.48
1:G:557:PHE:CE2	1:H:563:LYS:HD3	2.49	0.48
1:C:634:ILE:O	1:C:638:LYS:N	2.42	0.48
1:K:541:LYS:HD3	1:K:542:THR:HG23	1.95	0.48
1:K:702:MET:O	1:K:705:ALA:HB3	2.13	0.48
1:F:98:TYR:O	1:F:102:MET:HB2	2.13	0.48
1:D:98:TYR:O	1:D:102:MET:HB2	2.13	0.48
1:I:702:MET:O	1:I:705:ALA:HB3	2.13	0.48
1:C:164:LEU:HA	1:C:307:TRP:CH2	2.48	0.48
1:E:382:GLY:O	1:E:383:ASP:C	2.52	0.48
1:D:15:PHE:CE2	1:D:19:TRP:NE1	2.81	0.48
1:L:262:GLY:O	1:L:263:PHE:HB3	2.14	0.48
1:E:15:PHE:CE2	1:E:19:TRP:NE1	2.81	0.48
1:G:101:ASP:CB	1:G:138:THR:HG21	2.43	0.48
1:C:382:GLY:O	1:C:383:ASP:C	2.52	0.48
1:G:436:ASN:O	1:G:439:ASN:N	2.45	0.48
1:H:238:PRO:HG3	1:H:263:PHE:CB	2.44	0.48
1:I:633:GLN:O	1:I:637:ALA:N	2.35	0.48
1:H:389:LEU:HD12	1:H:389:LEU:H	1.79	0.48
1:C:541:LYS:HD3	1:C:542:THR:HG23	1.95	0.48
1:A:108:LYS:CD	1:L:438:LEU:HD11	2.43	0.48
1:I:14:ARG:CA	1:I:14:ARG:NE	2.71	0.48
1:F:238:PRO:HG3	1:F:263:PHE:CB	2.44	0.48
1:F:238:PRO:HD3	1:F:263:PHE:CD2	2.49	0.48
1:D:238:PRO:HG3	1:D:263:PHE:CB	2.44	0.48
1:D:238:PRO:HD3	1:D:263:PHE:CD2	2.49	0.48
1:D:260:ASP:OD1	1:D:264:ILE:HG13	2.13	0.48
1:K:101:ASP:CB	1:K:138:THR:HG21	2.43	0.48
1:G:584:PRO:HB3	1:G:589:GLU:HB2	1.96	0.48
1:C:173:CYS:SG	1:C:298:ILE:HG21	2.53	0.48
1:H:173:CYS:SG	1:H:298:ILE:HG21	2.53	0.48
1:L:301:VAL:HA	1:L:302:PRO:HD3	1.67	0.48
1:D:436:ASN:O	1:D:439:ASN:N	2.45	0.48
1:I:255:ILE:O	1:I:258:LEU:N	2.47	0.48
1:D:399:GLN:OE1	1:E:396:GLU:O	2.31	0.48
1:E:126:TRP:CD1	1:E:146:ARG:HG3	2.49	0.48
1:F:449:PHE:CD1	1:F:449:PHE:N	2.82	0.48
1:I:260:ASP:OD1	1:I:264:ILE:HG13	2.13	0.48
1:I:238:PRO:HG3	1:I:263:PHE:CB	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:238:PRO:HD3	1:I:263:PHE:CD2	2.49	0.48
1:E:238:PRO:HG3	1:E:263:PHE:CB	2.44	0.48
1:J:584:PRO:HB3	1:J:589:GLU:HB2	1.96	0.48
1:D:577:ILE:HG12	1:D:582:LYS:CG	2.36	0.48
1:L:584:PRO:HB3	1:L:589:GLU:HB2	1.96	0.48
1:L:585:GLU:HB3	1:L:587:PRO:HD3	1.96	0.48
1:L:101:ASP:CB	1:L:138:THR:HG21	2.43	0.48
1:K:585:GLU:HB3	1:K:587:PRO:HD3	1.96	0.48
1:K:584:PRO:HB3	1:K:589:GLU:HB2	1.96	0.48
1:F:164:LEU:HA	1:F:307:TRP:CH2	2.48	0.48
1:F:438:LEU:HD11	1:G:108:LYS:HD2	1.96	0.48
1:C:66:LYS:HZ3	1:C:420:VAL:CG1	2.27	0.48
1:K:173:CYS:SG	1:K:298:ILE:HG21	2.53	0.48
1:G:411:ALA:CB	1:H:57:PHE:HD1	2.24	0.48
1:K:164:LEU:HA	1:K:307:TRP:CH2	2.48	0.48
1:L:122:GLY:O	1:L:304:PHE:HA	2.14	0.48
1:A:346:LYS:CG	1:B:367:ASP:OD1	2.62	0.48
1:F:127:ARG:HG2	1:F:147:GLU:HB2	1.96	0.48
1:L:126:TRP:CD1	1:L:146:ARG:HG3	2.49	0.48
1:F:541:LYS:HD3	1:F:542:THR:HG23	1.95	0.48
1:J:702:MET:O	1:J:705:ALA:HB3	2.13	0.48
1:K:238:PRO:HD3	1:K:263:PHE:CD2	2.49	0.47
1:F:551:LEU:O	1:F:554:LEU:HB3	2.13	0.47
1:K:449:PHE:CD1	1:K:449:PHE:N	2.82	0.47
1:G:262:GLY:O	1:G:263:PHE:HB3	2.14	0.47
1:C:262:GLY:O	1:C:263:PHE:HB3	2.14	0.47
1:A:238:PRO:HG3	1:A:263:PHE:CB	2.44	0.47
1:A:238:PRO:HD3	1:A:263:PHE:CD2	2.49	0.47
1:B:262:GLY:O	1:B:263:PHE:HB3	2.14	0.47
1:J:585:GLU:HB3	1:J:587:PRO:HD3	1.96	0.47
1:F:585:GLU:HB3	1:F:587:PRO:HD3	1.96	0.47
1:K:122:GLY:O	1:K:304:PHE:HA	2.14	0.47
1:D:122:GLY:O	1:D:304:PHE:HA	2.14	0.47
1:K:350:PHE:HE1	1:L:363:TYR:CE1	2.28	0.47
1:L:343:ARG:H	1:L:343:ARG:HG2	1.52	0.47
1:C:98:TYR:O	1:C:102:MET:HB2	2.13	0.47
1:J:165:MET:HE3	1:J:435:VAL:HB	1.97	0.47
1:C:434:THR:O	1:C:437:GLN:HG2	2.15	0.47
1:G:438:LEU:HD11	1:H:108:LYS:NZ	2.29	0.47
1:I:227:GLU:HA	1:I:274:ARG:CA	2.40	0.47
1:G:323:THR:O	1:G:327:GLN:HB2	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:238:PRO:HB3	1:E:263:PHE:HB2	1.96	0.47
1:I:164:LEU:HA	1:I:307:TRP:CH2	2.48	0.47
1:A:382:GLY:O	1:A:383:ASP:C	2.52	0.47
1:H:404:MET:CE	1:I:337:ASN:HB2	2.43	0.47
1:G:122:GLY:O	1:G:304:PHE:HA	2.14	0.47
1:J:262:GLY:O	1:J:263:PHE:HB3	2.14	0.47
1:C:126:TRP:CD1	1:C:146:ARG:HG3	2.49	0.47
1:L:449:PHE:N	1:L:449:PHE:CD1	2.82	0.47
1:E:238:PRO:HD3	1:E:263:PHE:CD2	2.49	0.47
1:B:584:PRO:HB3	1:B:589:GLU:HB2	1.96	0.47
1:K:405:LEU:O	1:K:409:THR:HG23	2.14	0.47
1:I:434:THR:O	1:I:437:GLN:HG2	2.15	0.47
1:D:173:CYS:SG	1:D:298:ILE:HG21	2.53	0.47
1:C:350:PHE:CE1	1:D:372:TYR:CB	2.97	0.47
1:I:602:GLY:O	1:I:606:PRO:N	2.48	0.47
1:C:246:TYR:CE2	1:C:512:GLY:N	2.81	0.47
1:J:238:PRO:HD3	1:J:263:PHE:CD2	2.49	0.47
1:I:127:ARG:HG2	1:I:147:GLU:HB2	1.96	0.47
1:C:551:LEU:O	1:C:554:LEU:HB3	2.13	0.47
1:J:434:THR:O	1:J:437:GLN:HG2	2.15	0.47
1:D:263:PHE:CG	1:D:263:PHE:O	2.65	0.47
1:E:389:LEU:HD12	1:E:389:LEU:H	1.79	0.47
1:D:405:LEU:O	1:D:409:THR:HG23	2.15	0.47
1:D:434:THR:O	1:D:437:GLN:HG2	2.15	0.47
1:D:312:ASP:OD2	1:E:155:HIS:NE2	2.46	0.47
1:J:317:GLU:HB3	1:J:321:ARG:CZ	2.45	0.47
1:I:411:ALA:CB	1:J:57:PHE:HD1	2.26	0.47
1:A:602:GLY:O	1:A:606:PRO:N	2.48	0.47
1:B:602:GLY:O	1:B:606:PRO:N	2.48	0.47
1:L:255:ILE:O	1:L:258:LEU:N	2.47	0.47
1:H:255:ILE:O	1:H:258:LEU:N	2.46	0.47
1:F:246:TYR:CE2	1:F:512:GLY:N	2.81	0.47
1:I:126:TRP:CD1	1:I:146:ARG:HG3	2.49	0.47
1:G:126:TRP:CD1	1:G:146:ARG:HG3	2.49	0.47
1:J:126:TRP:CD1	1:J:146:ARG:HG3	2.49	0.47
1:A:127:ARG:HG2	1:A:147:GLU:HB2	1.96	0.47
1:A:126:TRP:CD1	1:A:146:ARG:HG3	2.49	0.47
1:F:389:LEU:H	1:F:389:LEU:HD12	1.79	0.47
1:I:122:GLY:O	1:I:304:PHE:HA	2.14	0.47
1:H:191:TYR:HE1	1:H:278:LYS:HZ3	1.62	0.47
1:J:164:LEU:HB2	1:K:109:ILE:HG21	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:243:PRO:O	1:F:244:VAL:HB	2.15	0.47
1:J:248:LYS:HZ1	1:J:513:ARG:HH12	1.60	0.47
1:F:165:MET:HE3	1:F:435:VAL:HB	1.97	0.47
1:L:405:LEU:O	1:L:409:THR:HG23	2.14	0.47
1:A:164:LEU:HB2	1:B:109:ILE:HG21	1.97	0.47
1:L:389:LEU:H	1:L:389:LEU:HD12	1.79	0.47
1:G:411:ALA:HB1	1:H:57:PHE:CD1	2.45	0.47
1:B:434:THR:O	1:B:437:GLN:HG2	2.15	0.47
1:H:317:GLU:HB3	1:H:321:ARG:CZ	2.45	0.47
1:J:122:GLY:O	1:J:304:PHE:HA	2.14	0.47
1:C:310:VAL:C	1:C:312:ASP:N	2.66	0.47
1:A:317:GLU:HB3	1:A:321:ARG:CZ	2.45	0.47
1:H:310:VAL:C	1:H:312:ASP:N	2.66	0.47
1:F:602:GLY:O	1:F:606:PRO:N	2.48	0.47
1:C:602:GLY:O	1:C:606:PRO:N	2.48	0.47
1:G:246:TYR:CE2	1:G:512:GLY:N	2.81	0.47
1:B:323:THR:O	1:B:327:GLN:HB2	2.13	0.47
1:E:127:ARG:HG2	1:E:147:GLU:HB2	1.96	0.47
1:C:389:LEU:H	1:C:389:LEU:HD12	1.79	0.47
1:A:132:TYR:O	1:L:272:LYS:HD3	2.15	0.47
1:H:98:TYR:O	1:H:102:MET:HB2	2.13	0.47
1:D:449:PHE:N	1:D:449:PHE:CD1	2.82	0.47
1:A:238:PRO:HB3	1:A:263:PHE:HB2	1.96	0.47
1:L:243:PRO:O	1:L:244:VAL:HB	2.15	0.47
1:F:15:PHE:CE2	1:F:19:TRP:NE1	2.82	0.47
1:B:263:PHE:O	1:B:263:PHE:CG	2.65	0.47
1:C:585:GLU:HB3	1:C:587:PRO:HD3	1.96	0.47
1:C:584:PRO:HB3	1:C:589:GLU:HB2	1.96	0.47
1:D:382:GLY:O	1:D:383:ASP:C	2.52	0.47
1:D:384:LEU:N	1:D:384:LEU:HD22	2.30	0.47
1:L:317:GLU:HB3	1:L:321:ARG:CZ	2.45	0.47
1:L:602:GLY:O	1:L:606:PRO:N	2.48	0.47
1:L:552:LEU:HD13	1:L:556:TYR:CE2	2.50	0.47
1:J:602:GLY:O	1:J:606:PRO:N	2.48	0.47
1:L:127:ARG:HG2	1:L:147:GLU:HB2	1.96	0.47
1:A:26:ARG:HG2	1:B:212:LEU:CD2	2.22	0.47
1:J:164:LEU:HA	1:J:307:TRP:CH2	2.48	0.47
1:L:59:VAL:O	1:L:62:PRO:CD	2.51	0.47
1:D:411:ALA:HB2	1:E:57:PHE:HD1	1.57	0.47
1:C:263:PHE:O	1:C:263:PHE:CG	2.65	0.47
1:A:552:LEU:HD13	1:A:556:TYR:CE2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:263:PHE:CG	1:I:263:PHE:O	2.65	0.47
1:L:238:PRO:HD3	1:L:263:PHE:CD2	2.49	0.47
1:L:238:PRO:HG3	1:L:263:PHE:CB	2.44	0.47
1:J:248:LYS:CB	1:J:511:ARG:NH1	2.78	0.47
1:E:248:LYS:CB	1:E:511:ARG:NH1	2.78	0.47
1:L:11:ILE:O	1:L:11:ILE:HG12	2.15	0.47
1:F:248:LYS:CB	1:F:511:ARG:NH1	2.78	0.47
1:H:586:THR:HG22	1:H:590:GLN:NE2	2.30	0.47
1:G:586:THR:HG22	1:G:590:GLN:NE2	2.30	0.47
1:A:405:LEU:O	1:A:409:THR:HG23	2.15	0.47
1:L:382:GLY:O	1:L:383:ASP:C	2.52	0.47
1:B:384:LEU:HD22	1:B:384:LEU:N	2.30	0.47
1:I:382:GLY:O	1:I:383:ASP:C	2.52	0.47
1:A:384:LEU:N	1:A:384:LEU:HD22	2.30	0.47
1:E:434:THR:O	1:E:437:GLN:HG2	2.15	0.47
1:C:122:GLY:O	1:C:304:PHE:HA	2.14	0.47
1:C:122:GLY:O	1:C:305:GLY:N	2.47	0.47
1:D:312:ASP:OD2	1:E:178:SER:HB2	2.14	0.47
1:L:310:VAL:C	1:L:312:ASP:N	2.66	0.47
1:F:317:GLU:HB3	1:F:321:ARG:CZ	2.45	0.47
1:A:122:GLY:O	1:A:304:PHE:HA	2.14	0.47
1:C:350:PHE:CD1	1:D:372:TYR:HB2	2.50	0.47
1:K:552:LEU:HD13	1:K:556:TYR:CE2	2.50	0.47
1:J:350:PHE:HA	1:K:372:TYR:O	2.15	0.47
1:A:246:TYR:CE2	1:A:512:GLY:N	2.81	0.47
1:H:246:TYR:CE2	1:H:512:GLY:N	2.81	0.47
1:H:238:PRO:HD3	1:H:263:PHE:CD2	2.49	0.47
1:H:238:PRO:HB3	1:H:263:PHE:HB2	1.96	0.47
1:C:127:ARG:HG2	1:C:147:GLU:HB2	1.96	0.47
1:F:126:TRP:CD1	1:F:146:ARG:HG3	2.49	0.47
1:D:127:ARG:HG2	1:D:147:GLU:HB2	1.96	0.47
1:E:243:PRO:O	1:E:244:VAL:HB	2.15	0.47
1:E:75:PRO:O	1:E:76:ILE:HB	2.15	0.47
1:G:238:PRO:HD3	1:G:263:PHE:CD2	2.49	0.47
1:C:243:PRO:O	1:C:244:VAL:HB	2.15	0.47
1:E:552:LEU:HD13	1:E:556:TYR:CE2	2.50	0.47
1:I:238:PRO:HB3	1:I:263:PHE:HB2	1.96	0.47
1:L:238:PRO:HB3	1:L:263:PHE:HB2	1.96	0.47
1:L:263:PHE:CG	1:L:263:PHE:O	2.65	0.47
1:D:248:LYS:CB	1:D:511:ARG:NH1	2.78	0.47
1:I:248:LYS:CB	1:I:511:ARG:NH1	2.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:248:LYS:CB	1:A:511:ARG:NH1	2.78	0.47
1:L:586:THR:HG22	1:L:590:GLN:NE2	2.30	0.47
1:E:586:THR:HG22	1:E:590:GLN:NE2	2.30	0.47
1:C:586:THR:HG22	1:C:590:GLN:NE2	2.30	0.47
1:F:405:LEU:O	1:F:409:THR:HG23	2.15	0.47
1:H:405:LEU:O	1:H:409:THR:HG23	2.15	0.47
1:I:405:LEU:O	1:I:409:THR:HG23	2.14	0.47
1:B:382:GLY:O	1:B:383:ASP:C	2.52	0.47
1:H:382:GLY:O	1:H:383:ASP:C	2.52	0.47
1:I:384:LEU:HD22	1:I:384:LEU:N	2.30	0.47
1:B:165:MET:HE3	1:B:435:VAL:HB	1.97	0.47
1:K:317:GLU:HB3	1:K:321:ARG:CZ	2.45	0.47
1:G:317:GLU:HB3	1:G:321:ARG:CZ	2.45	0.47
1:B:122:GLY:O	1:B:304:PHE:HA	2.14	0.47
1:F:122:GLY:O	1:F:304:PHE:HA	2.14	0.47
1:E:122:GLY:O	1:E:304:PHE:HA	2.14	0.47
1:D:602:GLY:O	1:D:606:PRO:N	2.48	0.47
1:G:602:GLY:O	1:G:606:PRO:N	2.48	0.47
1:J:246:TYR:CE2	1:J:512:GLY:N	2.81	0.47
1:E:246:TYR:CE2	1:E:512:GLY:N	2.81	0.47
1:J:238:PRO:HB3	1:J:263:PHE:HB2	1.96	0.47
1:K:127:ARG:HG2	1:K:147:GLU:HB2	1.96	0.47
1:H:127:ARG:HG2	1:H:147:GLU:HB2	1.96	0.47
1:J:389:LEU:HD12	1:J:389:LEU:H	1.79	0.47
1:A:75:PRO:O	1:A:76:ILE:HB	2.15	0.47
1:I:75:PRO:O	1:I:76:ILE:HB	2.15	0.47
1:L:434:THR:O	1:L:437:GLN:HG2	2.15	0.47
1:G:263:PHE:CG	1:G:263:PHE:O	2.65	0.47
1:F:262:GLY:O	1:F:263:PHE:HB3	2.14	0.47
1:B:248:LYS:CB	1:B:511:ARG:NH1	2.78	0.47
1:H:11:ILE:HG12	1:H:11:ILE:O	2.15	0.47
1:B:11:ILE:O	1:B:11:ILE:HG12	2.15	0.47
1:D:238:PRO:HB3	1:D:263:PHE:HB2	1.96	0.47
1:K:35:PHE:HE2	1:K:324:LYS:HZ3	1.60	0.47
1:H:584:PRO:HB3	1:H:589:GLU:HB2	1.96	0.47
1:J:405:LEU:O	1:J:409:THR:HG23	2.15	0.47
1:E:405:LEU:O	1:E:409:THR:HG23	2.14	0.47
1:I:165:MET:HE3	1:I:435:VAL:HB	1.97	0.47
1:G:63:VAL:O	1:G:67:LEU:HG	2.15	0.47
1:H:384:LEU:HD22	1:H:384:LEU:N	2.30	0.47
1:H:404:MET:SD	1:I:337:ASN:HB3	2.55	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:164:LEU:HA	1:B:307:TRP:CH2	2.48	0.47
1:D:317:GLU:HB3	1:D:321:ARG:CZ	2.45	0.47
1:H:122:GLY:O	1:H:304:PHE:HA	2.14	0.47
1:F:71:MET:CE	1:F:115:VAL:HB	2.45	0.47
1:H:71:MET:CE	1:H:115:VAL:HB	2.45	0.47
1:I:552:LEU:HD13	1:I:556:TYR:CE2	2.50	0.47
1:H:306:GLU:OE2	1:I:65:ARG:HG2	2.15	0.47
1:G:127:ARG:HG2	1:G:147:GLU:HB2	1.96	0.47
1:B:390:ALA:CB	1:C:387:GLN:HB2	2.45	0.47
1:I:343:ARG:HG2	1:I:343:ARG:H	1.52	0.47
1:E:191:TYR:HE1	1:E:278:LYS:HZ3	1.62	0.47
1:C:75:PRO:O	1:C:76:ILE:HB	2.15	0.47
1:A:395:PRO:HD2	1:L:398:PRO:HB3	1.96	0.47
1:C:702:MET:O	1:C:705:ALA:HB3	2.13	0.47
1:F:75:PRO:O	1:F:76:ILE:HB	2.15	0.47
1:C:238:PRO:HG3	1:C:263:PHE:CB	2.44	0.47
1:L:14:ARG:CA	1:L:14:ARG:NE	2.71	0.47
1:H:248:LYS:CB	1:H:511:ARG:NH1	2.78	0.47
1:D:35:PHE:HE2	1:D:324:LYS:HZ3	1.61	0.47
1:K:11:ILE:O	1:K:11:ILE:HG12	2.15	0.47
1:D:262:GLY:O	1:D:263:PHE:HB3	2.14	0.47
1:J:586:THR:HG22	1:J:590:GLN:NE2	2.30	0.47
1:H:27:ARG:HD2	1:I:212:LEU:H	1.78	0.47
1:H:585:GLU:HB3	1:H:587:PRO:HD3	1.96	0.47
1:A:585:GLU:HB3	1:A:587:PRO:HD3	1.96	0.47
1:A:586:THR:HG22	1:A:590:GLN:NE2	2.30	0.47
1:B:586:THR:HG22	1:B:590:GLN:NE2	2.30	0.47
1:G:99:ARG:CZ	1:G:524:PHE:HB2	2.45	0.47
1:L:384:LEU:HD22	1:L:384:LEU:N	2.30	0.47
1:E:63:VAL:O	1:E:67:LEU:HG	2.15	0.47
1:K:382:GLY:O	1:K:383:ASP:C	2.52	0.47
1:J:71:MET:CE	1:J:115:VAL:HB	2.45	0.47
1:G:122:GLY:O	1:G:305:GLY:N	2.47	0.47
1:H:552:LEU:HD13	1:H:556:TYR:CE2	2.50	0.47
1:C:552:LEU:HD13	1:C:556:TYR:CE2	2.50	0.47
1:B:411:ALA:CB	1:C:57:PHE:CD1	2.98	0.47
1:K:634:ILE:O	1:K:638:LYS:N	2.42	0.47
1:J:634:ILE:O	1:J:638:LYS:N	2.42	0.47
1:H:75:PRO:O	1:H:76:ILE:HB	2.15	0.47
1:B:75:PRO:O	1:B:76:ILE:HB	2.15	0.47
1:I:243:PRO:O	1:I:244:VAL:HB	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:434:THR:O	1:H:437:GLN:HG2	2.14	0.46
1:G:449:PHE:CD1	1:G:449:PHE:N	2.82	0.46
1:C:248:LYS:CB	1:C:511:ARG:NH1	2.78	0.46
1:E:11:ILE:O	1:E:11:ILE:HG12	2.15	0.46
1:A:327:GLN:NE2	1:A:327:GLN:O	2.48	0.46
1:B:238:PRO:HD3	1:B:263:PHE:CD2	2.49	0.46
1:E:577:ILE:HG12	1:E:582:LYS:CG	2.36	0.46
1:F:586:THR:HG22	1:F:590:GLN:NE2	2.30	0.46
1:A:99:ARG:CZ	1:A:524:PHE:HB2	2.46	0.46
1:K:63:VAL:O	1:K:67:LEU:HG	2.15	0.46
1:D:63:VAL:O	1:D:67:LEU:HG	2.15	0.46
1:K:384:LEU:HD22	1:K:384:LEU:N	2.30	0.46
1:J:382:GLY:O	1:J:383:ASP:C	2.52	0.46
1:F:384:LEU:HD22	1:F:384:LEU:N	2.30	0.46
1:F:122:GLY:O	1:F:305:GLY:N	2.47	0.46
1:F:310:VAL:C	1:F:312:ASP:N	2.66	0.46
1:J:350:PHE:HE1	1:K:363:TYR:HE1	1.62	0.46
1:H:263:PHE:O	1:H:263:PHE:CG	2.65	0.46
1:I:122:GLY:O	1:I:305:GLY:N	2.47	0.46
1:I:317:GLU:HB3	1:I:321:ARG:CZ	2.45	0.46
1:A:27:ARG:CZ	1:B:211:TRP:CB	2.89	0.46
1:J:59:VAL:O	1:J:62:PRO:CD	2.51	0.46
1:F:263:PHE:O	1:F:263:PHE:CG	2.65	0.46
1:L:248:LYS:CB	1:L:511:ARG:NH1	2.78	0.46
1:A:248:LYS:HZ1	1:A:513:ARG:HH12	1.61	0.46
1:B:37:ARG:HA	1:B:37:ARG:HD2	1.70	0.46
1:B:238:PRO:HG3	1:B:263:PHE:CB	2.44	0.46
1:E:584:PRO:HB3	1:E:589:GLU:HB2	1.96	0.46
1:I:584:PRO:HB3	1:I:589:GLU:HB2	1.96	0.46
1:I:586:THR:HG22	1:I:590:GLN:NE2	2.30	0.46
1:K:586:THR:HG22	1:K:590:GLN:NE2	2.30	0.46
1:K:99:ARG:CZ	1:K:524:PHE:HB2	2.46	0.46
1:I:63:VAL:O	1:I:67:LEU:HG	2.15	0.46
1:G:384:LEU:N	1:G:384:LEU:HD22	2.30	0.46
1:C:384:LEU:N	1:C:384:LEU:HD22	2.30	0.46
1:F:382:GLY:O	1:F:383:ASP:C	2.52	0.46
1:K:71:MET:CE	1:K:115:VAL:HB	2.45	0.46
1:E:71:MET:CE	1:E:115:VAL:HB	2.45	0.46
1:B:389:LEU:HD12	1:B:389:LEU:H	1.79	0.46
1:E:317:GLU:HB3	1:E:321:ARG:CZ	2.45	0.46
1:F:552:LEU:HD13	1:F:556:TYR:CE2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:602:GLY:O	1:H:606:PRO:N	2.48	0.46
1:E:602:GLY:O	1:E:606:PRO:N	2.48	0.46
1:F:255:ILE:O	1:F:258:LEU:N	2.47	0.46
1:E:327:GLN:O	1:E:327:GLN:NE2	2.48	0.46
1:I:389:LEU:HD12	1:I:389:LEU:H	1.79	0.46
1:B:266:ILE:O	1:B:267:ALA:HB2	2.16	0.46
1:C:266:ILE:O	1:C:267:ALA:HB2	2.16	0.46
1:K:243:PRO:O	1:K:244:VAL:HB	2.15	0.46
1:F:702:MET:O	1:F:705:ALA:HB3	2.13	0.46
1:L:438:LEU:HD12	1:L:441:ARG:NH1	2.31	0.46
1:E:384:LEU:N	1:E:384:LEU:HD22	2.30	0.46
1:G:434:THR:O	1:G:437:GLN:HG2	2.14	0.46
1:C:238:PRO:HB3	1:C:263:PHE:HB2	1.96	0.46
1:A:11:ILE:HG12	1:A:11:ILE:O	2.15	0.46
1:J:37:ARG:HD2	1:J:37:ARG:HA	1.70	0.46
1:G:248:LYS:CB	1:G:511:ARG:NH1	2.78	0.46
1:K:27:ARG:HD2	1:L:212:LEU:H	1.81	0.46
1:C:584:PRO:CB	1:C:590:GLN:HG2	2.46	0.46
1:G:585:GLU:HB3	1:G:587:PRO:HD3	1.96	0.46
1:A:434:THR:O	1:A:437:GLN:HG2	2.15	0.46
1:J:63:VAL:O	1:J:67:LEU:HG	2.15	0.46
1:J:384:LEU:N	1:J:384:LEU:HD22	2.30	0.46
1:A:71:MET:CE	1:A:115:VAL:HB	2.45	0.46
1:C:71:MET:CE	1:C:115:VAL:HB	2.45	0.46
1:C:317:GLU:HB3	1:C:321:ARG:CZ	2.45	0.46
1:B:71:MET:CE	1:B:115:VAL:HB	2.45	0.46
1:H:262:GLY:O	1:H:263:PHE:HB3	2.14	0.46
1:J:243:PRO:O	1:J:244:VAL:HB	2.15	0.46
1:C:327:GLN:O	1:C:327:GLN:NE2	2.49	0.46
1:L:266:ILE:O	1:L:267:ALA:HB2	2.16	0.46
1:D:266:ILE:O	1:D:267:ALA:HB2	2.16	0.46
1:J:75:PRO:O	1:J:76:ILE:HB	2.15	0.46
1:A:557:PHE:CE2	1:B:563:LYS:CD	2.97	0.46
1:K:262:GLY:O	1:K:263:PHE:HB3	2.14	0.46
1:D:351:PHE:O	1:E:374:LEU:N	2.48	0.46
1:J:11:ILE:HG12	1:J:11:ILE:O	2.15	0.46
1:B:248:LYS:HZ1	1:B:513:ARG:HH12	1.64	0.46
1:I:327:GLN:NE2	1:I:327:GLN:O	2.48	0.46
1:B:243:PRO:O	1:B:244:VAL:HB	2.15	0.46
1:J:584:PRO:CB	1:J:590:GLN:HG2	2.46	0.46
1:D:586:THR:HG22	1:D:590:GLN:NE2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:577:ILE:HG12	1:B:582:LYS:CG	2.36	0.46
1:B:584:PRO:CB	1:B:590:GLN:HG2	2.46	0.46
1:B:585:GLU:HB3	1:B:587:PRO:HD3	1.96	0.46
1:B:405:LEU:O	1:B:409:THR:HG23	2.15	0.46
1:F:434:THR:O	1:F:437:GLN:HG2	2.15	0.46
1:L:63:VAL:O	1:L:67:LEU:HG	2.15	0.46
1:K:115:VAL:CG2	1:K:116:ARG:N	2.79	0.46
1:G:552:LEU:HD13	1:G:556:TYR:CE2	2.50	0.46
1:F:306:GLU:OE2	1:G:65:ARG:HG2	2.14	0.46
1:G:255:ILE:O	1:G:258:LEU:N	2.47	0.46
1:C:352:TRP:CD1	1:D:374:LEU:O	2.66	0.46
1:F:266:ILE:O	1:F:267:ALA:HB2	2.16	0.46
1:H:309:PHE:HB2	1:I:150:HIS:CG	2.51	0.46
1:K:75:PRO:O	1:K:76:ILE:HB	2.15	0.46
1:C:91:ALA:O	1:C:94:LEU:N	2.49	0.46
1:C:237:ASP:H	1:C:243:PRO:HA	1.81	0.46
1:I:11:ILE:HG12	1:I:11:ILE:O	2.15	0.46
1:D:11:ILE:O	1:D:11:ILE:HG12	2.15	0.46
1:D:327:GLN:NE2	1:D:327:GLN:O	2.48	0.46
1:H:35:PHE:HE2	1:H:324:LYS:HZ3	1.63	0.46
1:H:327:GLN:O	1:H:327:GLN:NE2	2.48	0.46
1:K:27:ARG:CZ	1:L:211:TRP:CB	2.93	0.46
1:I:138:THR:HG23	1:I:143:VAL:CG2	2.37	0.46
1:A:584:PRO:HB3	1:A:589:GLU:HB2	1.96	0.46
1:C:405:LEU:O	1:C:409:THR:HG23	2.15	0.46
1:I:673:ALA:O	1:I:674:SER:C	2.54	0.46
1:I:71:MET:CE	1:I:115:VAL:HB	2.45	0.46
1:D:310:VAL:C	1:D:312:ASP:N	2.66	0.46
1:B:552:LEU:HD13	1:B:556:TYR:CE2	2.50	0.46
1:I:266:ILE:O	1:I:267:ALA:HB2	2.16	0.46
1:B:127:ARG:HG2	1:B:147:GLU:HB2	1.96	0.46
1:G:243:PRO:O	1:G:244:VAL:HB	2.15	0.46
1:H:243:PRO:O	1:H:244:VAL:HB	2.15	0.46
1:I:86:ALA:HB2	1:I:515:GLU:HG3	1.98	0.46
1:L:75:PRO:O	1:L:76:ILE:HB	2.15	0.46
1:D:243:PRO:O	1:D:244:VAL:HB	2.15	0.46
1:C:438:LEU:HD12	1:C:441:ARG:NH1	2.31	0.46
1:A:449:PHE:CD1	1:A:449:PHE:N	2.82	0.46
1:I:91:ALA:O	1:I:94:LEU:N	2.49	0.46
1:F:11:ILE:O	1:F:11:ILE:HG12	2.15	0.46
1:D:584:PRO:HB3	1:D:589:GLU:HB2	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:422:THR:CG2	1:F:423:GLU:N	2.79	0.46
1:A:63:VAL:O	1:A:67:LEU:HG	2.15	0.46
1:D:99:ARG:CZ	1:D:524:PHE:HB2	2.46	0.46
1:G:382:GLY:O	1:G:383:ASP:C	2.52	0.46
1:D:115:VAL:CG2	1:D:116:ARG:N	2.79	0.46
1:E:115:VAL:CG2	1:E:116:ARG:N	2.79	0.46
1:I:191:TYR:HE1	1:I:278:LYS:HZ3	1.64	0.46
1:G:622:LEU:O	1:G:625:ALA:HB3	2.16	0.46
1:K:59:VAL:O	1:K:62:PRO:CD	2.51	0.46
1:C:238:PRO:HD3	1:C:263:PHE:CD2	2.49	0.46
1:K:248:LYS:CB	1:K:511:ARG:NH1	2.78	0.46
1:G:327:GLN:NE2	1:G:327:GLN:O	2.48	0.46
1:F:584:PRO:HB3	1:F:589:GLU:HB2	1.96	0.46
1:D:422:THR:CG2	1:D:423:GLU:N	2.79	0.46
1:A:438:LEU:HD12	1:A:441:ARG:NH1	2.31	0.46
1:L:528:LYS:HB2	1:L:528:LYS:HE3	1.77	0.46
1:F:63:VAL:O	1:F:67:LEU:HG	2.15	0.46
1:K:434:THR:O	1:K:437:GLN:HG2	2.15	0.46
1:K:438:LEU:HD12	1:K:441:ARG:NH1	2.31	0.46
1:D:122:GLY:O	1:D:305:GLY:N	2.47	0.46
1:B:317:GLU:HB3	1:B:321:ARG:CZ	2.45	0.46
1:J:433:ASP:O	1:J:436:ASN:HB3	2.16	0.46
1:G:404:MET:SD	1:H:337:ASN:HB3	2.56	0.46
1:K:602:GLY:O	1:K:606:PRO:N	2.48	0.46
1:J:266:ILE:O	1:J:267:ALA:HB2	2.16	0.46
1:A:73:GLN:NE2	1:L:430:VAL:HG11	2.30	0.46
1:H:86:ALA:HB2	1:H:515:GLU:HG3	1.98	0.46
1:J:86:ALA:HB2	1:J:515:GLU:HG3	1.98	0.46
1:A:322:LEU:HA	1:A:322:LEU:HD13	1.77	0.46
1:J:91:ALA:O	1:J:94:LEU:N	2.49	0.46
1:H:438:LEU:HD12	1:H:441:ARG:NH1	2.31	0.46
1:B:91:ALA:O	1:B:94:LEU:N	2.49	0.46
1:C:11:ILE:HG12	1:C:11:ILE:O	2.15	0.46
1:A:243:PRO:O	1:A:244:VAL:HB	2.15	0.46
1:I:236:GLN:HE21	1:I:265:LYS:HZ1	1.64	0.46
1:J:327:GLN:NE2	1:J:327:GLN:O	2.49	0.46
1:F:35:PHE:HE2	1:F:324:LYS:HZ3	1.64	0.46
1:L:422:THR:CG2	1:L:423:GLU:N	2.79	0.46
1:K:584:PRO:CB	1:K:590:GLN:HG2	2.46	0.46
1:C:63:VAL:O	1:C:67:LEU:HG	2.15	0.46
1:K:400:ALA:CB	1:L:395:PRO:HB2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:576:LEU:O	1:E:579:MET:HB2	2.16	0.46
1:B:433:ASP:O	1:B:436:ASN:HB3	2.16	0.46
1:I:411:ALA:HB1	1:J:57:PHE:CD1	2.48	0.46
1:D:552:LEU:HD13	1:D:556:TYR:CE2	2.50	0.46
1:J:552:LEU:HD13	1:J:556:TYR:CE2	2.50	0.46
1:F:390:ALA:HB1	1:G:387:GLN:HB2	1.97	0.46
1:D:237:ASP:H	1:D:243:PRO:HA	1.81	0.46
1:E:86:ALA:HB2	1:E:515:GLU:HG3	1.98	0.46
1:L:241:GLY:O	1:L:242:GLU:C	2.54	0.46
1:J:241:GLY:O	1:J:242:GLU:C	2.55	0.46
1:A:528:LYS:HB2	1:A:528:LYS:HE3	1.77	0.46
1:F:91:ALA:O	1:F:94:LEU:N	2.49	0.46
1:J:438:LEU:HD12	1:J:441:ARG:NH1	2.31	0.46
1:E:91:ALA:O	1:E:94:LEU:N	2.49	0.46
1:E:263:PHE:CD2	1:E:263:PHE:O	2.69	0.46
1:B:263:PHE:O	1:B:263:PHE:CD2	2.69	0.46
1:D:27:ARG:HD2	1:E:212:LEU:H	1.81	0.46
1:E:143:VAL:CG1	1:E:144:ILE:N	2.79	0.46
1:L:143:VAL:CG1	1:L:144:ILE:N	2.79	0.46
1:A:584:PRO:CB	1:A:590:GLN:HG2	2.46	0.46
1:A:138:THR:HG23	1:A:143:VAL:CG2	2.37	0.46
1:A:350:PHE:HZ	1:A:392:TYR:CD2	2.34	0.46
1:G:405:LEU:O	1:G:409:THR:HG23	2.14	0.46
1:L:99:ARG:CZ	1:L:524:PHE:HB2	2.45	0.46
1:I:438:LEU:HD12	1:I:441:ARG:NH1	2.31	0.46
1:H:63:VAL:O	1:H:67:LEU:HG	2.15	0.46
1:L:115:VAL:CG2	1:L:116:ARG:N	2.79	0.46
1:E:438:LEU:HD12	1:E:441:ARG:NH1	2.31	0.46
1:C:673:ALA:O	1:C:674:SER:C	2.54	0.46
1:G:71:MET:CE	1:G:115:VAL:HB	2.45	0.46
1:C:433:ASP:O	1:C:436:ASN:HB3	2.16	0.46
1:L:673:ALA:O	1:L:674:SER:C	2.54	0.46
1:F:115:VAL:CG2	1:F:116:ARG:N	2.79	0.46
1:E:310:VAL:C	1:E:312:ASP:N	2.66	0.46
1:A:576:LEU:O	1:A:579:MET:HB2	2.16	0.46
1:I:246:TYR:HE2	1:I:512:GLY:CA	2.29	0.46
1:J:237:ASP:H	1:J:243:PRO:HA	1.81	0.46
1:J:127:ARG:HG2	1:J:147:GLU:HB2	1.96	0.46
1:E:237:ASP:H	1:E:243:PRO:HA	1.81	0.46
1:J:616:LEU:O	1:J:620:ALA:N	2.44	0.46
1:J:322:LEU:HA	1:J:322:LEU:HD13	1.77	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:325:ASP:OD2	1:B:56:GLN:HB2	2.16	0.46
1:B:415:VAL:HA	1:C:62:PRO:HG3	1.97	0.46
1:A:59:VAL:O	1:A:62:PRO:CD	2.51	0.46
1:G:438:LEU:HD12	1:G:441:ARG:NH1	2.31	0.46
1:C:26:ARG:HE	1:C:26:ARG:CA	2.29	0.46
1:L:584:PRO:CB	1:L:590:GLN:HG2	2.46	0.46
1:E:585:GLU:HB3	1:E:587:PRO:HD3	1.96	0.46
1:I:422:THR:CG2	1:I:423:GLU:N	2.79	0.46
1:F:438:LEU:HD12	1:F:441:ARG:NH1	2.31	0.46
1:F:352:TRP:CD2	1:G:376:ARG:HB2	2.51	0.46
1:B:438:LEU:HD12	1:B:441:ARG:NH1	2.31	0.46
1:H:673:ALA:O	1:H:674:SER:C	2.54	0.46
1:D:71:MET:CE	1:D:115:VAL:HB	2.45	0.46
1:J:350:PHE:HZ	1:J:392:TYR:CD2	2.34	0.46
1:D:246:TYR:HE2	1:D:512:GLY:CA	2.29	0.46
1:J:263:PHE:CD2	1:J:263:PHE:O	2.69	0.46
1:G:266:ILE:O	1:G:267:ALA:HB2	2.16	0.46
1:E:266:ILE:O	1:E:267:ALA:HB2	2.16	0.46
1:G:75:PRO:O	1:G:76:ILE:HB	2.15	0.46
1:D:75:PRO:O	1:D:76:ILE:HB	2.15	0.46
1:F:26:ARG:HE	1:F:26:ARG:CA	2.29	0.45
1:K:528:LYS:HD2	1:K:560:LEU:HD11	1.98	0.45
1:K:91:ALA:O	1:K:94:LEU:N	2.49	0.45
1:A:91:ALA:O	1:A:94:LEU:N	2.49	0.45
1:C:263:PHE:CD2	1:C:263:PHE:O	2.69	0.45
1:A:237:ASP:H	1:A:243:PRO:HA	1.81	0.45
1:F:263:PHE:O	1:F:263:PHE:CD2	2.69	0.45
1:I:263:PHE:O	1:I:263:PHE:CD2	2.69	0.45
1:F:327:GLN:O	1:F:327:GLN:NE2	2.49	0.45
1:E:37:ARG:HA	1:E:37:ARG:HD2	1.70	0.45
1:B:26:ARG:HE	1:B:26:ARG:CA	2.29	0.45
1:L:425:VAL:O	1:L:426:ASN:C	2.55	0.45
1:F:398:PRO:CB	1:G:395:PRO:HD2	2.39	0.45
1:K:433:ASP:O	1:K:436:ASN:HB3	2.16	0.45
1:I:115:VAL:CG2	1:I:116:ARG:N	2.79	0.45
1:L:369:TYR:HA	1:L:370:PRO:HD3	1.75	0.45
1:I:350:PHE:HZ	1:I:392:TYR:CD2	2.34	0.45
1:B:350:PHE:HE1	1:C:363:TYR:HE1	1.63	0.45
1:B:246:TYR:HE2	1:B:512:GLY:CA	2.29	0.45
1:A:246:TYR:HE2	1:A:512:GLY:CA	2.29	0.45
1:H:263:PHE:CD2	1:H:263:PHE:O	2.69	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:234:ILE:HG13	1:J:267:ALA:HB3	1.99	0.45
1:B:234:ILE:CG1	1:B:267:ALA:HB3	2.46	0.45
1:F:234:ILE:HG13	1:F:267:ALA:HB3	1.99	0.45
1:A:234:ILE:CG1	1:A:267:ALA:HB3	2.46	0.45
1:C:541:LYS:HE2	1:C:541:LYS:HB2	1.79	0.45
1:F:687:ALA:O	1:F:691:LEU:N	2.39	0.45
1:L:86:ALA:HB2	1:L:515:GLU:HG3	1.98	0.45
1:K:241:GLY:O	1:K:242:GLU:C	2.55	0.45
1:B:343:ARG:H	1:B:343:ARG:HG2	1.52	0.45
1:E:622:LEU:O	1:E:625:ALA:HB3	2.16	0.45
1:H:687:ALA:O	1:H:691:LEU:N	2.40	0.45
1:B:86:ALA:HB2	1:B:515:GLU:HG3	1.98	0.45
1:L:622:LEU:O	1:L:625:ALA:HB3	2.16	0.45
1:J:528:LYS:HD2	1:J:560:LEU:HD11	1.99	0.45
1:G:11:ILE:HG12	1:G:11:ILE:O	2.15	0.45
1:F:528:LYS:HD2	1:F:560:LEU:HD11	1.99	0.45
1:H:248:LYS:HZ1	1:H:513:ARG:HH12	1.62	0.45
1:D:263:PHE:CD2	1:D:263:PHE:O	2.69	0.45
1:K:327:GLN:NE2	1:K:327:GLN:O	2.48	0.45
1:D:577:ILE:CD1	1:D:589:GLU:HB3	2.47	0.45
1:H:577:ILE:CD1	1:H:589:GLU:HB3	2.47	0.45
1:B:143:VAL:CG1	1:B:144:ILE:N	2.79	0.45
1:D:425:VAL:O	1:D:426:ASN:C	2.55	0.45
1:F:425:VAL:O	1:F:426:ASN:C	2.55	0.45
1:F:413:LYS:H	1:F:413:LYS:HG2	1.61	0.45
1:A:673:ALA:O	1:A:674:SER:C	2.54	0.45
1:G:115:VAL:CG2	1:G:116:ARG:N	2.79	0.45
1:G:433:ASP:O	1:G:436:ASN:HB3	2.16	0.45
1:F:433:ASP:O	1:F:436:ASN:HB3	2.16	0.45
1:A:433:ASP:O	1:A:436:ASN:HB3	2.16	0.45
1:K:350:PHE:HZ	1:K:392:TYR:CD2	2.34	0.45
1:L:350:PHE:HZ	1:L:392:TYR:CD2	2.34	0.45
1:A:134:ASP:OD2	1:L:229:LYS:HE3	2.16	0.45
1:C:246:TYR:HE2	1:C:512:GLY:CA	2.29	0.45
1:E:246:TYR:HE2	1:E:512:GLY:CA	2.29	0.45
1:J:234:ILE:CG1	1:J:267:ALA:HB3	2.46	0.45
1:L:234:ILE:CG1	1:L:267:ALA:HB3	2.46	0.45
1:A:234:ILE:HG13	1:A:267:ALA:HB3	1.99	0.45
1:D:234:ILE:HG13	1:D:267:ALA:HB3	1.99	0.45
1:F:241:GLY:O	1:F:242:GLU:C	2.55	0.45
1:A:241:GLY:O	1:A:242:GLU:C	2.55	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:724:PRO:N	1:L:725:GLN:O	2.49	0.45
1:D:86:ALA:HB2	1:D:515:GLU:HG3	1.98	0.45
1:G:528:LYS:HD2	1:G:560:LEU:HD11	1.99	0.45
1:K:263:PHE:O	1:K:263:PHE:CG	2.65	0.45
1:J:438:LEU:HD11	1:K:108:LYS:HD2	1.97	0.45
1:L:91:ALA:O	1:L:94:LEU:N	2.49	0.45
1:L:327:GLN:NE2	1:L:327:GLN:O	2.48	0.45
1:K:37:ARG:HA	1:K:37:ARG:HD2	1.70	0.45
1:J:577:ILE:CD1	1:J:589:GLU:HB3	2.47	0.45
1:I:584:PRO:CB	1:I:590:GLN:HG2	2.46	0.45
1:F:584:PRO:CB	1:F:590:GLN:HG2	2.46	0.45
1:A:577:ILE:CD1	1:A:589:GLU:HB3	2.47	0.45
1:A:143:VAL:CG1	1:A:144:ILE:N	2.79	0.45
1:G:143:VAL:CG1	1:G:144:ILE:N	2.79	0.45
1:G:577:ILE:CD1	1:G:589:GLU:HB3	2.47	0.45
1:I:66:LYS:HZ1	1:I:420:VAL:HG11	1.81	0.45
1:J:673:ALA:O	1:J:674:SER:C	2.54	0.45
1:J:246:TYR:HE2	1:J:512:GLY:CA	2.29	0.45
1:D:634:ILE:O	1:D:638:LYS:N	2.42	0.45
1:B:327:GLN:NE2	1:B:327:GLN:O	2.48	0.45
1:C:234:ILE:CG1	1:C:267:ALA:HB3	2.46	0.45
1:A:266:ILE:O	1:A:267:ALA:HB2	2.16	0.45
1:I:237:ASP:H	1:I:243:PRO:HA	1.81	0.45
1:E:528:LYS:HB2	1:E:528:LYS:HE3	1.77	0.45
1:H:91:ALA:O	1:H:94:LEU:N	2.49	0.45
1:B:528:LYS:HD2	1:B:560:LEU:HD11	1.98	0.45
1:G:91:ALA:O	1:G:94:LEU:N	2.49	0.45
1:A:263:PHE:O	1:A:263:PHE:CD2	2.69	0.45
1:L:248:LYS:H	1:L:248:LYS:CD	2.29	0.45
1:I:143:VAL:CG1	1:I:144:ILE:N	2.79	0.45
1:E:584:PRO:CB	1:E:590:GLN:HG2	2.46	0.45
1:I:577:ILE:CD1	1:I:589:GLU:HB3	2.47	0.45
1:B:577:ILE:CD1	1:B:589:GLU:HB3	2.47	0.45
1:H:143:VAL:CG1	1:H:144:ILE:N	2.79	0.45
1:B:63:VAL:O	1:B:67:LEU:HG	2.15	0.45
1:F:411:ALA:CB	1:G:57:PHE:CD1	3.00	0.45
1:A:115:VAL:CG2	1:A:116:ARG:N	2.79	0.45
1:K:576:LEU:O	1:K:579:MET:HB2	2.16	0.45
1:K:246:TYR:HE2	1:K:512:GLY:CA	2.29	0.45
1:I:234:ILE:CG1	1:I:267:ALA:HB3	2.46	0.45
1:G:234:ILE:CG1	1:G:267:ALA:HB3	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:234:ILE:CG1	1:D:267:ALA:HB3	2.46	0.45
1:K:237:ASP:H	1:K:243:PRO:HA	1.81	0.45
1:K:622:LEU:O	1:K:625:ALA:HB3	2.16	0.45
1:F:622:LEU:O	1:F:625:ALA:HB3	2.16	0.45
1:H:241:GLY:O	1:H:242:GLU:C	2.55	0.45
1:D:241:GLY:O	1:D:242:GLU:C	2.54	0.45
1:D:91:ALA:O	1:D:94:LEU:N	2.49	0.45
1:J:26:ARG:CA	1:J:26:ARG:HE	2.29	0.45
1:L:237:ASP:H	1:L:243:PRO:HA	1.81	0.45
1:C:143:VAL:CG1	1:C:144:ILE:N	2.79	0.45
1:B:138:THR:HG23	1:B:143:VAL:CG2	2.37	0.45
1:G:584:PRO:CB	1:G:590:GLN:HG2	2.46	0.45
1:F:409:THR:O	1:F:413:LYS:HG2	2.17	0.45
1:I:99:ARG:CZ	1:I:524:PHE:HB2	2.46	0.45
1:H:99:ARG:CZ	1:H:524:PHE:HB2	2.46	0.45
1:E:165:MET:CE	1:E:435:VAL:HB	2.47	0.45
1:J:115:VAL:CG2	1:J:116:ARG:N	2.79	0.45
1:C:115:VAL:CG2	1:C:116:ARG:N	2.79	0.45
1:G:350:PHE:HZ	1:G:392:TYR:CD2	2.34	0.45
1:J:237:ASP:HA	1:J:238:PRO:HD2	1.83	0.45
1:E:234:ILE:HG13	1:E:267:ALA:HB3	1.99	0.45
1:K:234:ILE:CG1	1:K:267:ALA:HB3	2.46	0.45
1:G:541:LYS:HB2	1:G:541:LYS:HE2	1.79	0.45
1:G:237:ASP:H	1:G:243:PRO:HA	1.81	0.45
1:C:171:ARG:HH21	1:D:182:ASN:ND2	2.14	0.45
1:I:203:ASN:HA	1:I:204:PRO:HD3	1.74	0.45
1:K:263:PHE:CD2	1:K:263:PHE:O	2.69	0.45
1:A:109:ILE:HD13	1:L:165:MET:H	1.81	0.45
1:B:248:LYS:CD	1:B:248:LYS:H	2.29	0.45
1:C:528:LYS:HD2	1:C:560:LEU:HD11	1.99	0.45
1:J:143:VAL:CG1	1:J:144:ILE:N	2.79	0.45
1:K:143:VAL:CG1	1:K:144:ILE:N	2.79	0.45
1:A:65:ARG:HD3	1:L:418:LEU:HD22	1.99	0.45
1:L:66:LYS:HZ3	1:L:420:VAL:HG11	1.80	0.45
1:D:438:LEU:HD12	1:D:441:ARG:NH1	2.31	0.45
1:K:434:THR:O	1:K:438:LEU:HD13	2.17	0.45
1:D:433:ASP:O	1:D:436:ASN:HB3	2.16	0.45
1:B:350:PHE:HZ	1:B:392:TYR:CD2	2.34	0.45
1:K:266:ILE:O	1:K:267:ALA:HB2	2.16	0.45
1:D:622:LEU:O	1:D:625:ALA:HB3	2.16	0.45
1:A:525:GLN:NE2	1:L:441:ARG:HH21	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:444:LEU:HD13	1:C:444:LEU:N	2.32	0.45
1:G:434:THR:O	1:G:438:LEU:HD13	2.17	0.45
1:F:237:ASP:H	1:F:243:PRO:HA	1.81	0.45
1:L:263:PHE:CD2	1:L:263:PHE:O	2.69	0.45
1:I:26:ARG:CA	1:I:26:ARG:HE	2.29	0.45
1:F:143:VAL:CG1	1:F:144:ILE:N	2.79	0.45
1:H:584:PRO:CB	1:H:590:GLN:HG2	2.46	0.45
1:E:577:ILE:CD1	1:E:589:GLU:HB3	2.47	0.45
1:C:577:ILE:CD1	1:C:589:GLU:HB3	2.47	0.45
1:G:422:THR:CG2	1:G:423:GLU:N	2.79	0.45
1:J:422:THR:CG2	1:J:423:GLU:N	2.79	0.45
1:B:422:THR:CG2	1:B:423:GLU:N	2.79	0.45
1:B:425:VAL:O	1:B:426:ASN:C	2.55	0.45
1:E:409:THR:O	1:E:413:LYS:HG2	2.17	0.45
1:A:409:THR:O	1:A:413:LYS:HG2	2.17	0.45
1:C:409:THR:O	1:C:413:LYS:HG2	2.17	0.45
1:D:438:LEU:HD11	1:E:108:LYS:CE	2.47	0.45
1:A:115:VAL:HG23	1:A:116:ARG:N	2.32	0.45
1:F:673:ALA:O	1:F:674:SER:C	2.54	0.45
1:K:165:MET:CE	1:K:435:VAL:HB	2.47	0.45
1:G:673:ALA:O	1:G:674:SER:C	2.54	0.45
1:B:115:VAL:HG23	1:B:116:ARG:N	2.32	0.45
1:B:576:LEU:O	1:B:579:MET:HB2	2.16	0.45
1:F:576:LEU:O	1:F:579:MET:HB2	2.16	0.45
1:J:411:ALA:HB1	1:K:57:PHE:CD1	2.48	0.45
1:A:255:ILE:O	1:A:258:LEU:N	2.47	0.45
1:I:234:ILE:HG13	1:I:267:ALA:HB3	1.99	0.45
1:A:86:ALA:HB2	1:A:515:GLU:HG3	1.98	0.45
1:K:86:ALA:HB2	1:K:515:GLU:HG3	1.98	0.45
1:A:724:PRO:N	1:B:725:GLN:O	2.49	0.45
1:D:350:PHE:HB3	1:E:374:LEU:CD1	2.46	0.45
1:G:236:GLN:N	1:G:265:LYS:HG2	2.32	0.45
1:H:165:MET:CE	1:H:435:VAL:HB	2.47	0.45
1:C:236:GLN:N	1:C:265:LYS:HG2	2.32	0.45
1:I:236:GLN:N	1:I:265:LYS:HG2	2.32	0.45
1:G:425:VAL:O	1:G:426:ASN:C	2.55	0.45
1:J:425:VAL:O	1:J:426:ASN:C	2.55	0.45
1:H:425:VAL:O	1:H:426:ASN:C	2.55	0.45
1:A:350:PHE:HE1	1:B:363:TYR:CE1	2.25	0.45
1:C:425:VAL:O	1:C:426:ASN:C	2.55	0.45
1:F:99:ARG:CZ	1:F:524:PHE:HB2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:409:THR:O	1:L:413:LYS:HG2	2.17	0.45
1:A:301:VAL:HA	1:A:302:PRO:HD3	1.67	0.45
1:A:150:HIS:HB3	1:L:309:PHE:HB2	1.98	0.45
1:L:198:ILE:HA	1:L:199:PRO:HD3	1.74	0.45
1:G:115:VAL:HG23	1:G:116:ARG:N	2.32	0.45
1:K:115:VAL:HG23	1:K:116:ARG:N	2.32	0.45
1:H:433:ASP:O	1:H:436:ASN:HB3	2.16	0.45
1:B:115:VAL:CG2	1:B:116:ARG:N	2.79	0.45
1:D:576:LEU:O	1:D:579:MET:HB2	2.16	0.45
1:H:115:VAL:CG2	1:H:116:ARG:N	2.79	0.45
1:C:350:PHE:HZ	1:C:392:TYR:CD2	2.34	0.45
1:E:433:ASP:O	1:E:436:ASN:HB3	2.16	0.45
1:H:266:ILE:O	1:H:267:ALA:HB2	2.16	0.45
1:C:234:ILE:HG13	1:C:267:ALA:HB3	1.99	0.45
1:K:234:ILE:HG13	1:K:267:ALA:HB3	1.99	0.45
1:J:622:LEU:O	1:J:625:ALA:HB3	2.16	0.45
1:G:241:GLY:O	1:G:242:GLU:C	2.55	0.45
1:B:241:GLY:O	1:B:242:GLU:C	2.55	0.45
1:A:622:LEU:O	1:A:625:ALA:HB3	2.16	0.45
1:A:687:ALA:O	1:A:691:LEU:N	2.39	0.45
1:I:622:LEU:O	1:I:625:ALA:HB3	2.16	0.45
1:A:26:ARG:NE	1:A:26:ARG:HA	2.32	0.45
1:A:26:ARG:HG3	1:A:27:ARG:N	2.32	0.45
1:K:236:GLN:N	1:K:265:LYS:HG2	2.32	0.45
1:J:165:MET:CE	1:J:435:VAL:HB	2.47	0.45
1:J:434:THR:O	1:J:438:LEU:HD13	2.17	0.45
1:C:165:MET:CE	1:C:435:VAL:HB	2.47	0.45
1:G:263:PHE:CD2	1:G:263:PHE:O	2.69	0.45
1:E:557:PHE:CE2	1:F:563:LYS:HD3	2.51	0.45
1:B:444:LEU:N	1:B:444:LEU:HD13	2.32	0.45
1:F:528:LYS:HE3	1:F:528:LYS:HB2	1.77	0.45
1:G:26:ARG:HG3	1:G:27:ARG:N	2.32	0.45
1:B:236:GLN:N	1:B:265:LYS:HG2	2.32	0.45
1:D:26:ARG:HG3	1:D:27:ARG:N	2.32	0.45
1:K:425:VAL:O	1:K:426:ASN:C	2.55	0.45
1:I:425:VAL:O	1:I:426:ASN:C	2.55	0.45
1:J:409:THR:O	1:J:413:LYS:HG2	2.17	0.45
1:H:409:THR:O	1:H:413:LYS:HG2	2.17	0.45
1:G:198:ILE:HA	1:G:199:PRO:HD3	1.74	0.45
1:B:673:ALA:O	1:B:674:SER:C	2.54	0.45
1:D:673:ALA:O	1:D:674:SER:C	2.54	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:433:ASP:O	1:I:436:ASN:HB3	2.16	0.45
1:E:115:VAL:HG23	1:E:116:ARG:N	2.32	0.45
1:E:122:GLY:O	1:E:305:GLY:N	2.47	0.45
1:E:350:PHE:HZ	1:E:392:TYR:CD2	2.34	0.45
1:F:350:PHE:HZ	1:F:392:TYR:CD2	2.34	0.45
1:G:234:ILE:HG13	1:G:267:ALA:HB3	1.99	0.45
1:I:541:LYS:HB2	1:I:541:LYS:HE2	1.79	0.45
1:F:86:ALA:HB2	1:F:515:GLU:HG3	1.98	0.45
1:G:325:ASP:OD2	1:H:56:GLN:N	2.50	0.45
1:J:26:ARG:NE	1:J:26:ARG:HA	2.32	0.45
1:I:248:LYS:H	1:I:248:LYS:CD	2.29	0.45
1:G:26:ARG:NE	1:G:26:ARG:HA	2.32	0.45
1:D:236:GLN:N	1:D:265:LYS:HG2	2.32	0.45
1:B:237:ASP:H	1:B:243:PRO:HA	1.81	0.45
1:D:143:VAL:CG1	1:D:144:ILE:N	2.79	0.45
1:A:422:THR:CG2	1:A:423:GLU:N	2.79	0.45
1:I:422:THR:HG23	1:I:423:GLU:N	2.32	0.45
1:A:350:PHE:CD1	1:B:372:TYR:HB2	2.52	0.45
1:F:411:ALA:HB1	1:G:57:PHE:CD1	2.46	0.45
1:G:576:LEU:O	1:G:579:MET:HB2	2.16	0.45
1:A:122:GLY:O	1:A:305:GLY:N	2.47	0.45
1:C:576:LEU:O	1:C:579:MET:HB2	2.16	0.45
1:F:246:TYR:HE2	1:F:512:GLY:CA	2.29	0.45
1:H:234:ILE:CG1	1:H:267:ALA:HB3	2.46	0.45
1:L:234:ILE:HG13	1:L:267:ALA:HB3	1.99	0.45
1:D:171:ARG:NE	1:E:186:ASP:OD1	2.50	0.45
1:C:86:ALA:HB2	1:C:515:GLU:HG3	1.98	0.45
1:I:241:GLY:O	1:I:242:GLU:C	2.54	0.45
1:F:26:ARG:HG3	1:F:27:ARG:N	2.32	0.44
1:L:165:MET:CE	1:L:435:VAL:HB	2.47	0.44
1:F:59:VAL:O	1:F:62:PRO:CD	2.51	0.44
1:L:236:GLN:N	1:L:265:LYS:HG2	2.32	0.44
1:E:263:PHE:CG	1:E:263:PHE:O	2.65	0.44
1:G:26:ARG:HE	1:G:26:ARG:CA	2.29	0.44
1:I:37:ARG:HD2	1:I:37:ARG:HA	1.70	0.44
1:L:26:ARG:HG3	1:L:27:ARG:N	2.32	0.44
1:I:26:ARG:HA	1:I:26:ARG:NE	2.32	0.44
1:L:577:ILE:CD1	1:L:589:GLU:HB3	2.47	0.44
1:E:422:THR:HG23	1:E:423:GLU:N	2.33	0.44
1:K:577:ILE:CD1	1:K:589:GLU:HB3	2.47	0.44
1:F:422:THR:HG23	1:F:423:GLU:N	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:99:ARG:CZ	1:E:524:PHE:HB2	2.46	0.44
1:G:411:ALA:CB	1:H:57:PHE:CD1	3.00	0.44
1:F:115:VAL:HG23	1:F:116:ARG:N	2.32	0.44
1:D:404:MET:SD	1:E:337:ASN:HB3	2.56	0.44
1:J:576:LEU:O	1:J:579:MET:HB2	2.16	0.44
1:L:576:LEU:O	1:L:579:MET:HB2	2.16	0.44
1:J:255:ILE:O	1:J:258:LEU:N	2.47	0.44
1:L:246:TYR:HE2	1:L:512:GLY:CA	2.29	0.44
1:E:234:ILE:CG1	1:E:267:ALA:HB3	2.46	0.44
1:H:622:LEU:O	1:H:625:ALA:HB3	2.16	0.44
1:C:622:LEU:O	1:C:625:ALA:HB3	2.16	0.44
1:A:528:LYS:HD2	1:A:560:LEU:HD11	1.99	0.44
1:L:165:MET:HG3	1:L:307:TRP:CD2	2.53	0.44
1:A:444:LEU:HD13	1:A:444:LEU:N	2.32	0.44
1:H:165:MET:HE3	1:H:435:VAL:HB	1.98	0.44
1:J:45:LEU:O	1:J:46:SER:HB3	2.18	0.44
1:J:554:LEU:HD12	1:J:557:PHE:HD2	1.83	0.44
1:E:236:GLN:N	1:E:265:LYS:HG2	2.32	0.44
1:C:26:ARG:HG3	1:C:27:ARG:N	2.32	0.44
1:E:26:ARG:HG3	1:E:27:ARG:N	2.32	0.44
1:B:26:ARG:HG3	1:B:27:ARG:N	2.32	0.44
1:H:26:ARG:CA	1:H:26:ARG:HE	2.29	0.44
1:A:422:THR:HG23	1:A:423:GLU:N	2.33	0.44
1:B:409:THR:O	1:B:413:LYS:HG2	2.17	0.44
1:F:301:VAL:HA	1:F:302:PRO:HD3	1.67	0.44
1:I:434:THR:O	1:I:438:LEU:HD13	2.17	0.44
1:K:400:ALA:HB3	1:L:395:PRO:HB2	1.99	0.44
1:D:165:MET:HG3	1:D:307:TRP:CD2	2.53	0.44
1:E:165:MET:HG3	1:E:307:TRP:CD2	2.53	0.44
1:E:673:ALA:O	1:E:674:SER:C	2.54	0.44
1:L:433:ASP:O	1:L:436:ASN:HB3	2.16	0.44
1:A:271:ILE:HA	1:B:134:ASP:OD2	2.17	0.44
1:G:246:TYR:HE2	1:G:512:GLY:CA	2.29	0.44
1:H:246:TYR:HE2	1:H:512:GLY:CA	2.29	0.44
1:E:241:GLY:O	1:E:242:GLU:C	2.54	0.44
1:B:622:LEU:O	1:B:625:ALA:HB3	2.16	0.44
1:C:554:LEU:HD12	1:C:557:PHE:HD2	1.83	0.44
1:F:554:LEU:HD12	1:F:557:PHE:HD2	1.83	0.44
1:B:554:LEU:HD12	1:B:557:PHE:HD2	1.83	0.44
1:H:434:THR:O	1:H:438:LEU:HD13	2.17	0.44
1:G:434:THR:HG23	1:G:435:VAL:N	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:550:GLN:H	1:J:550:GLN:CD	2.21	0.44
1:J:15:PHE:HZ	1:J:283:CYS:SG	2.41	0.44
1:D:554:LEU:HD12	1:D:557:PHE:HD2	1.83	0.44
1:K:45:LEU:O	1:K:46:SER:HB3	2.18	0.44
1:K:26:ARG:HA	1:K:26:ARG:NE	2.32	0.44
1:B:26:ARG:NE	1:B:26:ARG:HA	2.32	0.44
1:E:422:THR:CG2	1:E:423:GLU:N	2.79	0.44
1:F:165:MET:CE	1:F:435:VAL:HB	2.47	0.44
1:L:158:TRP:HB3	1:L:173:CYS:N	2.33	0.44
1:G:66:LYS:HZ1	1:G:420:VAL:HG11	1.80	0.44
1:K:88:PRO:O	1:L:561:ASP:HB2	2.16	0.44
1:L:115:VAL:HG23	1:L:116:ARG:N	2.32	0.44
1:E:434:THR:HG23	1:E:435:VAL:N	2.33	0.44
1:H:115:VAL:HG23	1:H:116:ARG:N	2.32	0.44
1:I:576:LEU:O	1:I:579:MET:HB2	2.16	0.44
1:E:255:ILE:O	1:E:258:LEU:N	2.47	0.44
1:F:234:ILE:CG1	1:F:267:ALA:HB3	2.46	0.44
1:G:86:ALA:HB2	1:G:515:GLU:HG3	1.98	0.44
1:C:203:ASN:HA	1:C:204:PRO:HD3	1.74	0.44
1:J:434:THR:HG23	1:J:435:VAL:N	2.33	0.44
1:D:444:LEU:HD13	1:D:444:LEU:N	2.32	0.44
1:C:434:THR:HG23	1:C:435:VAL:N	2.33	0.44
1:C:434:THR:O	1:C:438:LEU:HD13	2.17	0.44
1:D:350:PHE:HZ	1:D:392:TYR:CD2	2.34	0.44
1:H:78:VAL:O	1:H:79:LEU:HD22	2.18	0.44
1:G:78:VAL:O	1:G:79:LEU:HD22	2.18	0.44
1:I:444:LEU:N	1:I:444:LEU:HD13	2.32	0.44
1:I:15:PHE:HZ	1:I:283:CYS:SG	2.41	0.44
1:C:15:PHE:HZ	1:C:283:CYS:SG	2.41	0.44
1:E:45:LEU:O	1:E:46:SER:HB3	2.18	0.44
1:L:26:ARG:HA	1:L:26:ARG:NE	2.32	0.44
1:K:422:THR:CG2	1:K:423:GLU:N	2.79	0.44
1:J:138:THR:HG23	1:J:143:VAL:CG2	2.37	0.44
1:D:584:PRO:CB	1:D:590:GLN:HG2	2.46	0.44
1:K:409:THR:O	1:K:413:LYS:HG2	2.17	0.44
1:C:99:ARG:CZ	1:C:524:PHE:HB2	2.45	0.44
1:F:434:THR:HG23	1:F:435:VAL:N	2.33	0.44
1:I:409:THR:O	1:I:413:LYS:HG2	2.17	0.44
1:A:434:THR:O	1:A:438:LEU:HD13	2.17	0.44
1:D:434:THR:O	1:D:438:LEU:HD13	2.17	0.44
1:L:71:MET:CE	1:L:115:VAL:HB	2.45	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:155:HIS:CE1	1:L:312:ASP:OD1	2.70	0.44
1:H:369:TYR:HA	1:H:370:PRO:HD3	1.75	0.44
1:D:255:ILE:O	1:D:258:LEU:N	2.47	0.44
1:B:634:ILE:O	1:B:638:LYS:N	2.42	0.44
1:G:147:GLU:HA	1:G:148:PRO:HD3	1.83	0.44
1:H:237:ASP:H	1:H:243:PRO:HA	1.81	0.44
1:G:73:GLN:C	1:G:75:PRO:HD3	2.38	0.44
1:F:343:ARG:H	1:F:343:ARG:HG2	1.52	0.44
1:J:343:ARG:HG2	1:J:343:ARG:H	1.52	0.44
1:F:171:ARG:HH21	1:G:182:ASN:HD22	1.66	0.44
1:G:322:LEU:HA	1:G:322:LEU:HD13	1.77	0.44
1:F:444:LEU:N	1:F:444:LEU:HD13	2.32	0.44
1:J:165:MET:HG3	1:J:307:TRP:CD2	2.52	0.44
1:J:78:VAL:O	1:J:79:LEU:HD22	2.18	0.44
1:L:434:THR:O	1:L:438:LEU:HD13	2.17	0.44
1:L:78:VAL:O	1:L:79:LEU:HD22	2.18	0.44
1:J:26:ARG:HG3	1:J:27:ARG:N	2.32	0.44
1:A:236:GLN:N	1:A:265:LYS:HG2	2.32	0.44
1:G:15:PHE:HZ	1:G:283:CYS:SG	2.41	0.44
1:I:550:GLN:H	1:I:550:GLN:CD	2.21	0.44
1:C:45:LEU:O	1:C:46:SER:HB3	2.18	0.44
1:F:45:LEU:O	1:F:46:SER:HB3	2.18	0.44
1:I:45:LEU:O	1:I:46:SER:HB3	2.18	0.44
1:H:37:ARG:HA	1:H:37:ARG:HD2	1.70	0.44
1:D:26:ARG:NE	1:D:26:ARG:HA	2.32	0.44
1:D:528:LYS:HD2	1:D:560:LEU:HD11	1.99	0.44
1:C:158:TRP:HB3	1:C:173:CYS:N	2.33	0.44
1:A:165:MET:CE	1:A:435:VAL:HB	2.47	0.44
1:G:554:LEU:HD12	1:G:557:PHE:HD2	1.83	0.44
1:H:122:GLY:O	1:H:305:GLY:N	2.47	0.44
1:B:73:GLN:C	1:B:75:PRO:HD3	2.38	0.44
1:H:236:GLN:N	1:H:265:LYS:HG2	2.32	0.44
1:C:165:MET:HG3	1:C:307:TRP:CD2	2.53	0.44
1:D:392:TYR:HA	1:E:391:TYR:OH	2.18	0.44
1:C:59:VAL:O	1:C:62:PRO:CD	2.51	0.44
1:G:165:MET:HG3	1:G:307:TRP:CD2	2.53	0.44
1:F:236:GLN:N	1:F:265:LYS:HG2	2.32	0.44
1:E:15:PHE:HZ	1:E:283:CYS:SG	2.41	0.44
1:F:37:ARG:HA	1:F:37:ARG:HD2	1.70	0.44
1:I:26:ARG:HG3	1:I:27:ARG:N	2.32	0.44
1:E:26:ARG:HE	1:E:26:ARG:CA	2.29	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:26:ARG:HA	1:E:26:ARG:NE	2.32	0.44
1:K:26:ARG:CA	1:K:26:ARG:HE	2.29	0.44
1:L:138:THR:HG23	1:L:143:VAL:CG2	2.37	0.44
1:F:434:THR:O	1:F:438:LEU:HD13	2.17	0.44
1:K:158:TRP:HB3	1:K:173:CYS:N	2.33	0.44
1:D:158:TRP:HB3	1:D:173:CYS:N	2.33	0.44
1:E:158:TRP:HB3	1:E:173:CYS:N	2.33	0.44
1:I:118:GLN:N	1:I:123:VAL:O	2.51	0.44
1:D:115:VAL:HG23	1:D:116:ARG:N	2.32	0.44
1:I:73:GLN:C	1:I:75:PRO:HD3	2.38	0.44
1:H:73:GLN:C	1:H:75:PRO:HD3	2.38	0.44
1:C:105:ASN:O	1:C:109:ILE:HG13	2.18	0.44
1:K:203:ASN:HA	1:K:204:PRO:HD3	1.74	0.44
1:F:26:ARG:HA	1:F:26:ARG:NE	2.32	0.44
1:A:24:GLU:OE2	1:B:213:THR:CG2	2.66	0.44
1:A:554:LEU:HD12	1:A:557:PHE:HD2	1.83	0.44
1:F:78:VAL:O	1:F:79:LEU:HD22	2.18	0.44
1:I:415:VAL:HA	1:J:62:PRO:HG3	1.99	0.44
1:C:236:GLN:HE21	1:C:265:LYS:HZ1	1.65	0.44
1:D:15:PHE:HZ	1:D:283:CYS:SG	2.41	0.44
1:G:45:LEU:O	1:G:46:SER:HB3	2.18	0.44
1:C:37:ARG:HA	1:C:37:ARG:HD2	1.70	0.44
1:K:26:ARG:HG3	1:K:27:ARG:N	2.32	0.44
1:B:158:TRP:HB3	1:B:173:CYS:N	2.33	0.44
1:A:165:MET:HG3	1:A:307:TRP:CD2	2.53	0.44
1:L:528:LYS:HD2	1:L:560:LEU:HD11	1.99	0.44
1:K:434:THR:HG23	1:K:435:VAL:N	2.33	0.44
1:K:118:GLN:N	1:K:123:VAL:O	2.51	0.44
1:D:118:GLN:N	1:D:123:VAL:O	2.51	0.44
1:J:118:GLN:N	1:J:123:VAL:O	2.51	0.44
1:G:634:ILE:O	1:G:638:LYS:N	2.42	0.44
1:J:73:GLN:C	1:J:75:PRO:HD3	2.38	0.44
1:L:105:ASN:O	1:L:109:ILE:HG13	2.18	0.44
1:A:325:ASP:OD2	1:B:56:GLN:N	2.50	0.44
1:A:26:ARG:HE	1:A:26:ARG:CA	2.29	0.44
1:H:528:LYS:HD2	1:H:560:LEU:HD11	1.98	0.44
1:D:350:PHE:HE1	1:E:363:TYR:CE1	2.35	0.44
1:D:352:TRP:HA	1:E:374:LEU:O	2.18	0.44
1:I:528:LYS:HD2	1:I:560:LEU:HD11	1.99	0.44
1:E:444:LEU:N	1:E:444:LEU:HD13	2.32	0.44
1:E:554:LEU:HD12	1:E:557:PHE:HD2	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:59:VAL:O	1:E:62:PRO:CD	2.51	0.44
1:G:59:VAL:O	1:G:62:PRO:CD	2.51	0.44
1:G:165:MET:CE	1:G:435:VAL:HB	2.47	0.44
1:G:444:LEU:N	1:G:444:LEU:HD13	2.32	0.44
1:L:550:GLN:CD	1:L:550:GLN:H	2.21	0.44
1:L:554:LEU:HD12	1:L:557:PHE:HD2	1.83	0.44
1:H:550:GLN:CD	1:H:550:GLN:H	2.21	0.44
1:F:15:PHE:HZ	1:F:283:CYS:SG	2.41	0.44
1:L:26:ARG:CA	1:L:26:ARG:HE	2.29	0.44
1:K:554:LEU:HD12	1:K:557:PHE:HD2	1.83	0.44
1:A:425:VAL:O	1:A:426:ASN:C	2.55	0.44
1:B:422:THR:HG23	1:B:423:GLU:N	2.33	0.44
1:B:99:ARG:CZ	1:B:524:PHE:HB2	2.46	0.44
1:G:158:TRP:HB3	1:G:173:CYS:N	2.33	0.44
1:D:165:MET:CE	1:D:435:VAL:HB	2.47	0.44
1:E:105:ASN:O	1:E:109:ILE:HG13	2.18	0.44
1:B:165:MET:CE	1:B:435:VAL:HB	2.47	0.44
1:E:438:LEU:HD11	1:F:108:LYS:HD2	2.00	0.44
1:C:118:GLN:N	1:C:123:VAL:O	2.51	0.44
1:G:118:GLN:N	1:G:123:VAL:O	2.51	0.44
1:H:576:LEU:O	1:H:579:MET:HB2	2.16	0.44
1:A:118:GLN:HE21	1:A:118:GLN:HB2	1.66	0.44
1:H:350:PHE:HZ	1:H:392:TYR:CD2	2.34	0.44
1:L:634:ILE:O	1:L:638:LYS:N	2.42	0.44
1:F:643:ASN:O	1:F:647:ALA:CB	2.66	0.44
1:A:73:GLN:C	1:A:75:PRO:HD3	2.38	0.44
1:L:322:LEU:HA	1:L:322:LEU:HD13	1.77	0.44
1:H:59:VAL:O	1:H:62:PRO:CD	2.51	0.44
1:H:105:ASN:O	1:H:109:ILE:HG13	2.18	0.44
1:K:550:GLN:H	1:K:550:GLN:CD	2.21	0.44
1:B:15:PHE:HZ	1:B:283:CYS:SG	2.41	0.44
1:C:26:ARG:HA	1:C:26:ARG:NE	2.32	0.44
1:F:577:ILE:CD1	1:F:589:GLU:HB3	2.47	0.44
1:D:422:THR:HG23	1:D:423:GLU:N	2.33	0.44
1:C:422:THR:HG23	1:C:423:GLU:N	2.33	0.44
1:G:409:THR:O	1:G:413:LYS:HG2	2.17	0.44
1:J:99:ARG:CZ	1:J:524:PHE:HB2	2.45	0.44
1:J:158:TRP:HB3	1:J:173:CYS:N	2.33	0.44
1:I:434:THR:HG23	1:I:435:VAL:N	2.33	0.44
1:D:434:THR:HG23	1:D:435:VAL:N	2.33	0.44
1:B:118:GLN:N	1:B:123:VAL:O	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:643:ASN:O	1:I:647:ALA:CB	2.66	0.44
1:K:387:GLN:HG2	1:K:387:GLN:H	1.60	0.44
1:L:541:LYS:HE2	1:L:541:LYS:HB2	1.79	0.44
1:A:541:LYS:HE2	1:A:541:LYS:HB2	1.79	0.44
1:C:73:GLN:C	1:C:75:PRO:HD3	2.38	0.44
1:L:157:ILE:O	1:L:174:THR:HG23	2.18	0.44
1:L:191:TYR:HE1	1:L:278:LYS:HZ3	1.66	0.44
1:F:325:ASP:OD2	1:G:56:GLN:N	2.51	0.43
1:F:24:GLU:OE2	1:G:213:THR:HG22	2.18	0.43
1:E:528:LYS:HD2	1:E:560:LEU:HD11	1.99	0.43
1:K:444:LEU:HD13	1:K:444:LEU:N	2.32	0.43
1:K:78:VAL:O	1:K:79:LEU:HD22	2.18	0.43
1:A:78:VAL:O	1:A:79:LEU:HD22	2.18	0.43
1:H:165:MET:HG3	1:H:307:TRP:CD2	2.52	0.43
1:D:45:LEU:O	1:D:46:SER:HB3	2.18	0.43
1:H:26:ARG:HG3	1:H:27:ARG:N	2.32	0.43
1:D:409:THR:O	1:D:413:LYS:HG2	2.17	0.43
1:D:528:LYS:HE3	1:D:528:LYS:HB2	1.77	0.43
1:F:165:MET:HG3	1:F:307:TRP:CD2	2.53	0.43
1:C:413:LYS:H	1:C:413:LYS:HG2	1.61	0.43
1:J:105:ASN:O	1:J:109:ILE:HG13	2.18	0.43
1:B:105:ASN:O	1:B:109:ILE:HG13	2.18	0.43
1:C:115:VAL:HG23	1:C:116:ARG:N	2.32	0.43
1:I:115:VAL:HG23	1:I:116:ARG:N	2.32	0.43
1:B:311:GLU:O	1:B:312:ASP:CB	2.66	0.43
1:D:369:TYR:HA	1:D:370:PRO:HD3	1.75	0.43
1:J:643:ASN:O	1:J:647:ALA:CB	2.66	0.43
1:C:643:ASN:O	1:C:647:ALA:CB	2.66	0.43
1:D:105:ASN:O	1:D:109:ILE:HG13	2.18	0.43
1:E:657:MET:O	1:E:661:LYS:CB	2.67	0.43
1:F:657:MET:O	1:F:661:LYS:CB	2.66	0.43
1:G:105:ASN:O	1:G:109:ILE:HG13	2.18	0.43
1:G:657:MET:O	1:G:661:LYS:CB	2.66	0.43
1:J:444:LEU:N	1:J:444:LEU:HD13	2.32	0.43
1:A:105:ASN:O	1:A:109:ILE:HG13	2.18	0.43
1:I:78:VAL:O	1:I:79:LEU:HD22	2.18	0.43
1:E:14:ARG:NE	1:E:14:ARG:CA	2.71	0.43
1:B:45:LEU:O	1:B:46:SER:HB3	2.18	0.43
1:A:45:LEU:O	1:A:46:SER:HB3	2.18	0.43
1:B:237:ASP:HA	1:B:238:PRO:HD2	1.83	0.43
1:D:26:ARG:CA	1:D:26:ARG:HE	2.29	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:138:THR:HG23	1:F:143:VAL:CG2	2.37	0.43
1:L:422:THR:HG23	1:L:423:GLU:N	2.33	0.43
1:H:422:THR:HG23	1:H:423:GLU:N	2.33	0.43
1:E:425:VAL:O	1:E:426:ASN:C	2.55	0.43
1:B:301:VAL:HA	1:B:302:PRO:HD3	1.67	0.43
1:I:165:MET:CE	1:I:435:VAL:HB	2.47	0.43
1:I:158:TRP:HB3	1:I:173:CYS:N	2.33	0.43
1:J:115:VAL:HG23	1:J:116:ARG:N	2.32	0.43
1:I:554:LEU:HD12	1:I:557:PHE:HD2	1.83	0.43
1:E:634:ILE:O	1:E:638:LYS:N	2.42	0.43
1:B:234:ILE:HG13	1:B:267:ALA:HB3	1.98	0.43
1:E:31:ASN:HA	1:E:31:ASN:HD22	1.65	0.43
1:F:105:ASN:O	1:F:109:ILE:HG13	2.18	0.43
1:J:157:ILE:O	1:J:174:THR:HG23	2.18	0.43
1:C:78:VAL:O	1:C:79:LEU:HD22	2.18	0.43
1:H:444:LEU:HD13	1:H:444:LEU:N	2.32	0.43
1:G:550:GLN:CD	1:G:550:GLN:H	2.21	0.43
1:A:35:PHE:HE2	1:A:324:LYS:HZ3	1.65	0.43
1:J:422:THR:HG23	1:J:423:GLU:N	2.33	0.43
1:H:422:THR:CG2	1:H:423:GLU:N	2.79	0.43
1:I:165:MET:HG3	1:I:307:TRP:CD2	2.52	0.43
1:E:418:LEU:HB2	1:E:428:GLY:O	2.19	0.43
1:D:384:LEU:H	1:D:384:LEU:HD22	1.84	0.43
1:D:571:TYR:CZ	1:D:575:GLN:CG	3.01	0.43
1:E:571:TYR:CZ	1:E:575:GLN:CG	3.01	0.43
1:E:369:TYR:HA	1:E:370:PRO:HD3	1.75	0.43
1:I:411:ALA:CB	1:J:57:PHE:CD1	3.02	0.43
1:L:255:ILE:O	1:L:256:ASP:C	2.57	0.43
1:I:105:ASN:O	1:I:109:ILE:HG13	2.18	0.43
1:L:434:THR:HG23	1:L:435:VAL:N	2.33	0.43
1:A:108:LYS:NZ	1:L:434:THR:OG1	2.49	0.43
1:L:444:LEU:N	1:L:444:LEU:HD13	2.32	0.43
1:B:59:VAL:O	1:B:62:PRO:CD	2.51	0.43
1:K:15:PHE:HZ	1:K:283:CYS:SG	2.41	0.43
1:I:35:PHE:HE2	1:I:324:LYS:HZ3	1.65	0.43
1:L:15:PHE:HZ	1:L:283:CYS:SG	2.41	0.43
1:G:384:LEU:H	1:G:384:LEU:HD22	1.84	0.43
1:G:352:TRP:CG	1:H:376:ARG:HB2	2.53	0.43
1:B:434:THR:HG23	1:B:435:VAL:N	2.33	0.43
1:E:434:THR:O	1:E:438:LEU:HD13	2.17	0.43
1:F:118:GLN:N	1:F:123:VAL:O	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:118:GLN:N	1:A:123:VAL:O	2.51	0.43
1:E:118:GLN:N	1:E:123:VAL:O	2.51	0.43
1:E:147:GLU:HA	1:E:148:PRO:HD3	1.83	0.43
1:H:234:ILE:HG13	1:H:267:ALA:HB3	1.99	0.43
1:I:657:MET:O	1:I:661:LYS:CB	2.66	0.43
1:D:157:ILE:O	1:D:174:THR:HG23	2.18	0.43
1:A:157:ILE:O	1:A:174:THR:HG23	2.18	0.43
1:K:616:LEU:O	1:K:620:ALA:N	2.44	0.43
1:I:157:ILE:O	1:I:174:THR:HG23	2.18	0.43
1:A:550:GLN:CD	1:A:550:GLN:H	2.21	0.43
1:B:550:GLN:CD	1:B:550:GLN:H	2.21	0.43
1:H:434:THR:HG23	1:H:435:VAL:N	2.33	0.43
1:J:236:GLN:HE21	1:J:265:LYS:HZ1	1.65	0.43
1:C:264:ILE:HG12	1:C:265:LYS:N	2.34	0.43
1:D:550:GLN:H	1:D:550:GLN:CD	2.21	0.43
1:I:264:ILE:HG12	1:I:265:LYS:N	2.34	0.43
1:I:273:ARG:HH21	1:I:513:ARG:HH22	1.67	0.43
1:L:273:ARG:HH21	1:L:513:ARG:HH22	1.67	0.43
1:L:45:LEU:O	1:L:46:SER:HB3	2.18	0.43
1:H:45:LEU:O	1:H:46:SER:HB3	2.18	0.43
1:A:37:ARG:HD2	1:A:37:ARG:HA	1.70	0.43
1:D:264:ILE:HG12	1:D:265:LYS:N	2.34	0.43
1:G:422:THR:HG23	1:G:423:GLU:N	2.33	0.43
1:C:418:LEU:HB2	1:C:428:GLY:O	2.19	0.43
1:L:375:ASN:O	1:L:385:PRO:HG3	2.19	0.43
1:F:418:LEU:HB2	1:F:428:GLY:O	2.19	0.43
1:D:418:LEU:HB2	1:D:428:GLY:O	2.19	0.43
1:K:165:MET:HG3	1:K:307:TRP:CD2	2.53	0.43
1:H:311:GLU:O	1:H:312:ASP:CB	2.66	0.43
1:G:255:ILE:O	1:G:256:ASP:C	2.57	0.43
1:B:255:ILE:O	1:B:258:LEU:N	2.47	0.43
1:K:542:THR:HA	1:K:543:PRO:HD3	1.89	0.43
1:D:543:PRO:C	1:D:545:GLY:H	2.22	0.43
1:F:157:ILE:O	1:F:174:THR:HG23	2.18	0.43
1:C:241:GLY:O	1:C:242:GLU:C	2.55	0.43
1:A:657:MET:O	1:A:661:LYS:CB	2.66	0.43
1:E:384:LEU:H	1:E:384:LEU:HD22	1.84	0.43
1:H:82:PRO:HB2	1:H:83:LYS:H	1.63	0.43
1:E:78:VAL:O	1:E:79:LEU:HD22	2.18	0.43
1:B:78:VAL:O	1:B:79:LEU:HD22	2.18	0.43
1:G:15:PHE:O	1:G:19:TRP:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:264:ILE:HG12	1:L:265:LYS:N	2.34	0.43
1:E:264:ILE:HG12	1:E:265:LYS:N	2.34	0.43
1:C:27:ARG:HG2	1:D:212:LEU:CD1	2.38	0.43
1:C:422:THR:CG2	1:C:423:GLU:N	2.79	0.43
1:H:554:LEU:HD12	1:H:557:PHE:HD2	1.83	0.43
1:A:158:TRP:HB3	1:A:173:CYS:N	2.33	0.43
1:I:384:LEU:H	1:I:384:LEU:HD22	1.84	0.43
1:B:165:MET:HG3	1:B:307:TRP:CD2	2.53	0.43
1:B:434:THR:O	1:B:438:LEU:HD13	2.17	0.43
1:J:571:TYR:CZ	1:J:575:GLN:CG	3.01	0.43
1:G:386:THR:HG21	1:G:389:LEU:HD21	2.01	0.43
1:D:456:ALA:O	1:D:457:MET:HG2	2.19	0.43
1:D:255:ILE:O	1:D:256:ASP:C	2.57	0.43
1:L:643:ASN:O	1:L:647:ALA:CB	2.66	0.43
1:D:616:LEU:O	1:D:620:ALA:N	2.44	0.43
1:H:657:MET:O	1:H:661:LYS:CB	2.66	0.43
1:J:657:MET:O	1:J:661:LYS:CB	2.66	0.43
1:K:657:MET:O	1:K:661:LYS:CB	2.67	0.43
1:J:561:ASP:CG	1:J:562:GLY:N	2.72	0.43
1:J:264:ILE:HG12	1:J:265:LYS:N	2.34	0.43
1:J:236:GLN:N	1:J:265:LYS:HG2	2.32	0.43
1:B:273:ARG:HH21	1:B:513:ARG:HH22	1.67	0.43
1:H:15:PHE:O	1:H:19:TRP:HB2	2.19	0.43
1:H:15:PHE:HZ	1:H:283:CYS:SG	2.41	0.43
1:E:15:PHE:O	1:E:19:TRP:HB2	2.19	0.43
1:F:15:PHE:HE2	1:F:19:TRP:NE1	2.17	0.43
1:H:26:ARG:HA	1:H:26:ARG:NE	2.32	0.43
1:A:57:PHE:CD1	1:L:411:ALA:HB2	2.54	0.43
1:K:88:PRO:C	1:L:561:ASP:HB2	2.39	0.43
1:H:118:GLN:N	1:H:123:VAL:O	2.51	0.43
1:H:571:TYR:CZ	1:H:575:GLN:CG	3.01	0.43
1:C:456:ALA:O	1:C:457:MET:HG2	2.19	0.43
1:F:456:ALA:O	1:F:457:MET:HG2	2.19	0.43
1:A:456:ALA:O	1:A:457:MET:HG2	2.19	0.43
1:K:643:ASN:O	1:K:647:ALA:CB	2.66	0.43
1:G:643:ASN:O	1:G:647:ALA:CB	2.66	0.43
1:H:543:PRO:C	1:H:545:GLY:H	2.22	0.43
1:E:541:LYS:HE2	1:E:541:LYS:HB2	1.79	0.43
1:E:73:GLN:C	1:E:75:PRO:HD3	2.38	0.43
1:A:671:THR:O	1:A:672:VAL:C	2.57	0.43
1:B:671:THR:O	1:B:672:VAL:C	2.57	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:616:LEU:O	1:G:620:ALA:N	2.44	0.43
1:F:543:PRO:C	1:F:545:GLY:H	2.22	0.43
1:J:671:THR:O	1:J:672:VAL:C	2.57	0.43
1:D:671:THR:O	1:D:672:VAL:C	2.57	0.43
1:H:157:ILE:O	1:H:174:THR:HG23	2.18	0.43
1:B:543:PRO:C	1:B:545:GLY:H	2.22	0.43
1:D:325:ASP:OD2	1:E:56:GLN:HG3	2.19	0.43
1:K:561:ASP:CG	1:K:562:GLY:N	2.72	0.43
1:G:82:PRO:HB2	1:G:83:LYS:H	1.63	0.43
1:K:264:ILE:HG12	1:K:265:LYS:N	2.34	0.43
1:K:105:ASN:O	1:K:109:ILE:HG13	2.18	0.43
1:D:78:VAL:O	1:D:79:LEU:HD22	2.18	0.43
1:D:15:PHE:HE2	1:D:19:TRP:NE1	2.17	0.43
1:K:429:GLN:CD	1:K:429:GLN:H	2.22	0.43
1:G:429:GLN:H	1:G:429:GLN:CD	2.22	0.43
1:B:429:GLN:H	1:B:429:GLN:CD	2.22	0.43
1:F:429:GLN:CD	1:F:429:GLN:H	2.22	0.43
1:E:301:VAL:HA	1:E:302:PRO:HD3	1.67	0.43
1:G:418:LEU:HB2	1:G:428:GLY:O	2.19	0.43
1:B:375:ASN:O	1:B:385:PRO:HG3	2.19	0.43
1:B:418:LEU:HB2	1:B:428:GLY:O	2.19	0.43
1:K:384:LEU:HD22	1:K:384:LEU:H	1.84	0.43
1:D:199:PRO:HB3	1:D:282:THR:CG2	2.46	0.43
1:F:375:ASN:O	1:F:385:PRO:HG3	2.19	0.43
1:K:571:TYR:CZ	1:K:575:GLN:CG	3.01	0.43
1:A:571:TYR:CZ	1:A:575:GLN:CG	3.01	0.43
1:E:456:ALA:O	1:E:457:MET:HG2	2.19	0.43
1:J:456:ALA:O	1:J:457:MET:HG2	2.19	0.43
1:B:255:ILE:O	1:B:256:ASP:C	2.57	0.43
1:B:643:ASN:O	1:B:647:ALA:CB	2.66	0.43
1:H:643:ASN:O	1:H:647:ALA:CB	2.66	0.43
1:K:73:GLN:C	1:K:75:PRO:HD3	2.38	0.43
1:J:309:PHE:HB2	1:K:150:HIS:ND1	2.34	0.43
1:A:175:VAL:HG22	1:A:221:GLU:HB2	2.01	0.43
1:D:175:VAL:HG22	1:D:221:GLU:HB2	2.01	0.43
1:J:15:PHE:HE2	1:J:19:TRP:NE1	2.17	0.43
1:D:15:PHE:O	1:D:19:TRP:HB2	2.19	0.43
1:J:273:ARG:HH21	1:J:513:ARG:HH22	1.67	0.43
1:K:273:ARG:HH21	1:K:513:ARG:HH22	1.67	0.43
1:G:37:ARG:HD2	1:G:37:ARG:HA	1.70	0.43
1:H:273:ARG:HH21	1:H:513:ARG:HH22	1.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:264:ILE:HG12	1:B:265:LYS:N	2.34	0.43
1:H:158:TRP:HB3	1:H:173:CYS:N	2.33	0.43
1:G:199:PRO:HB3	1:G:282:THR:CG2	2.46	0.43
1:G:375:ASN:O	1:G:385:PRO:HG3	2.19	0.43
1:C:375:ASN:O	1:C:385:PRO:HG3	2.19	0.43
1:E:434:THR:HG21	1:F:72:ARG:CG	2.49	0.43
1:F:310:VAL:HB	1:F:311:GLU:H	1.74	0.43
1:G:456:ALA:O	1:G:457:MET:HG2	2.19	0.43
1:H:456:ALA:O	1:H:457:MET:HG2	2.19	0.43
1:K:456:ALA:O	1:K:457:MET:HG2	2.19	0.43
1:C:255:ILE:O	1:C:256:ASP:C	2.57	0.43
1:D:643:ASN:O	1:D:647:ALA:CB	2.66	0.43
1:F:73:GLN:C	1:F:75:PRO:HD3	2.38	0.43
1:D:73:GLN:C	1:D:75:PRO:HD3	2.38	0.43
1:I:543:PRO:C	1:I:545:GLY:H	2.22	0.43
1:H:671:THR:O	1:H:672:VAL:C	2.57	0.43
1:F:617:GLN:O	1:F:621:GLU:N	2.52	0.43
1:H:175:VAL:HG22	1:H:221:GLU:HB2	2.01	0.43
1:K:671:THR:O	1:K:672:VAL:C	2.57	0.43
1:E:671:THR:O	1:E:672:VAL:C	2.57	0.43
1:E:175:VAL:HG22	1:E:221:GLU:HB2	2.01	0.43
1:G:326:GLY:O	1:G:329:LEU:HB2	2.19	0.43
1:J:326:GLY:O	1:J:329:LEU:HB2	2.19	0.43
1:E:326:GLY:O	1:E:329:LEU:HB2	2.19	0.43
1:D:348:LYS:HA	1:D:349:PRO:HD3	1.87	0.43
1:A:92:ASP:HB3	1:B:561:ASP:OD2	2.19	0.43
1:B:561:ASP:CG	1:B:562:GLY:N	2.72	0.43
1:C:237:ASP:HA	1:C:238:PRO:HD2	1.83	0.43
1:F:561:ASP:CG	1:F:562:GLY:N	2.72	0.43
1:B:15:PHE:HE2	1:B:19:TRP:NE1	2.17	0.43
1:G:273:ARG:HH21	1:G:513:ARG:HH22	1.67	0.43
1:C:429:GLN:H	1:C:429:GLN:CD	2.22	0.43
1:F:158:TRP:HB3	1:F:173:CYS:N	2.33	0.43
1:L:384:LEU:HD22	1:L:384:LEU:H	1.84	0.43
1:H:418:LEU:HB2	1:H:428:GLY:O	2.19	0.43
1:F:199:PRO:HB3	1:F:282:THR:CG2	2.46	0.43
1:J:375:ASN:O	1:J:385:PRO:HG3	2.19	0.43
1:K:673:ALA:O	1:K:674:SER:C	2.54	0.43
1:C:571:TYR:CZ	1:C:575:GLN:CG	3.01	0.43
1:K:255:ILE:O	1:K:258:LEU:N	2.47	0.43
1:K:255:ILE:O	1:K:256:ASP:C	2.57	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:255:ILE:O	1:E:256:ASP:C	2.57	0.43
1:H:255:ILE:O	1:H:256:ASP:C	2.57	0.43
1:I:634:ILE:O	1:I:638:LYS:N	2.42	0.43
1:I:400:ALA:CB	1:J:395:PRO:HB2	2.48	0.43
1:D:386:THR:HG21	1:D:389:LEU:HD21	2.01	0.43
1:L:73:GLN:C	1:L:75:PRO:HD3	2.38	0.43
1:F:175:VAL:HG22	1:F:221:GLU:HB2	2.01	0.43
1:D:657:MET:O	1:D:661:LYS:CB	2.66	0.43
1:I:175:VAL:HG22	1:I:221:GLU:HB2	2.01	0.43
1:H:616:LEU:O	1:H:620:ALA:N	2.44	0.43
1:B:175:VAL:HG22	1:B:221:GLU:HB2	2.01	0.43
1:D:326:GLY:O	1:D:329:LEU:HB2	2.19	0.42
1:D:59:VAL:O	1:D:62:PRO:CD	2.51	0.42
1:I:15:PHE:HE2	1:I:19:TRP:NE1	2.17	0.42
1:A:273:ARG:HH21	1:A:513:ARG:HH22	1.67	0.42
1:F:273:ARG:HH21	1:F:513:ARG:HH22	1.67	0.42
1:D:429:GLN:H	1:D:429:GLN:CD	2.22	0.42
1:A:429:GLN:H	1:A:429:GLN:CD	2.22	0.42
1:A:418:LEU:HB2	1:A:428:GLY:O	2.19	0.42
1:D:165:MET:H	1:E:109:ILE:HD13	1.83	0.42
1:I:375:ASN:O	1:I:385:PRO:HG3	2.19	0.42
1:K:118:GLN:HB2	1:K:118:GLN:HE21	1.66	0.42
1:B:386:THR:HG21	1:B:389:LEU:HD21	2.01	0.42
1:I:571:TYR:CZ	1:I:575:GLN:CG	3.01	0.42
1:C:166:ASP:O	1:C:167:LYS:C	2.58	0.42
1:I:166:ASP:O	1:I:167:LYS:C	2.58	0.42
1:B:456:ALA:O	1:B:457:MET:HG2	2.19	0.42
1:A:643:ASN:O	1:A:647:ALA:CB	2.66	0.42
1:I:147:GLU:HA	1:I:148:PRO:HD3	1.83	0.42
1:E:643:ASN:O	1:E:647:ALA:CB	2.66	0.42
1:K:543:PRO:C	1:K:545:GLY:H	2.22	0.42
1:E:543:PRO:C	1:E:545:GLY:H	2.22	0.42
1:F:84:ASP:OD1	1:G:526:SER:HB2	2.18	0.42
1:J:203:ASN:HA	1:J:204:PRO:HD3	1.74	0.42
1:G:309:PHE:HB2	1:H:150:HIS:ND1	2.34	0.42
1:L:657:MET:O	1:L:661:LYS:CB	2.67	0.42
1:B:157:ILE:O	1:B:174:THR:HG23	2.18	0.42
1:E:95:MET:O	1:E:96:GLY:C	2.58	0.42
1:I:326:GLY:O	1:I:329:LEU:HB2	2.19	0.42
1:H:326:GLY:O	1:H:329:LEU:HB2	2.19	0.42
1:A:326:GLY:O	1:A:329:LEU:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:326:GLY:O	1:K:329:LEU:HB2	2.19	0.42
1:H:264:ILE:HG12	1:H:265:LYS:N	2.34	0.42
1:D:440:MET:O	1:D:443:ASP:HB3	2.20	0.42
1:K:440:MET:O	1:K:443:ASP:HB3	2.20	0.42
1:F:237:ASP:HA	1:F:238:PRO:HD2	1.83	0.42
1:A:15:PHE:O	1:A:19:TRP:HB2	2.19	0.42
1:F:550:GLN:H	1:F:550:GLN:CD	2.21	0.42
1:E:273:ARG:HH21	1:E:513:ARG:HH22	1.67	0.42
1:L:35:PHE:HE2	1:L:324:LYS:HZ3	1.64	0.42
1:D:561:ASP:CG	1:D:562:GLY:N	2.72	0.42
1:L:418:LEU:HB2	1:L:428:GLY:O	2.19	0.42
1:H:375:ASN:O	1:H:385:PRO:HG3	2.19	0.42
1:K:198:ILE:HA	1:K:199:PRO:HD3	1.74	0.42
1:B:571:TYR:CZ	1:B:575:GLN:CG	3.01	0.42
1:I:456:ALA:O	1:I:457:MET:HG2	2.19	0.42
1:I:386:THR:HG21	1:I:389:LEU:HD21	2.01	0.42
1:D:559:LEU:HD23	1:D:559:LEU:HA	1.85	0.42
1:K:157:ILE:O	1:K:174:THR:HG23	2.18	0.42
1:C:657:MET:O	1:C:661:LYS:CB	2.66	0.42
1:B:657:MET:O	1:B:661:LYS:CB	2.66	0.42
1:C:175:VAL:HG22	1:C:221:GLU:HB2	2.01	0.42
1:D:596:ALA:O	1:D:599:ALA:HB3	2.20	0.42
1:E:344:THR:HA	1:E:345:PRO:HD3	1.90	0.42
1:I:325:ASP:OD2	1:J:56:GLN:CB	2.61	0.42
1:B:326:GLY:O	1:B:329:LEU:HB2	2.19	0.42
1:A:561:ASP:CG	1:A:562:GLY:N	2.72	0.42
1:C:440:MET:O	1:C:443:ASP:HB3	2.20	0.42
1:G:236:GLN:HE21	1:G:265:LYS:HZ1	1.66	0.42
1:E:440:MET:O	1:E:443:ASP:HB3	2.20	0.42
1:H:440:MET:O	1:H:443:ASP:HB3	2.20	0.42
1:B:440:MET:O	1:B:443:ASP:HB3	2.20	0.42
1:C:15:PHE:O	1:C:19:TRP:HB2	2.19	0.42
1:F:264:ILE:HG12	1:F:265:LYS:N	2.34	0.42
1:J:15:PHE:O	1:J:19:TRP:HB2	2.19	0.42
1:L:248:LYS:HZ1	1:L:513:ARG:HH12	1.66	0.42
1:K:15:PHE:HE2	1:K:19:TRP:NE1	2.17	0.42
1:K:15:PHE:O	1:K:19:TRP:HB2	2.19	0.42
1:E:15:PHE:HE2	1:E:19:TRP:NE1	2.17	0.42
1:L:15:PHE:HE2	1:L:19:TRP:NE1	2.17	0.42
1:A:57:PHE:CE1	1:L:411:ALA:CB	3.02	0.42
1:E:429:GLN:H	1:E:429:GLN:CD	2.22	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:301:VAL:HA	1:J:302:PRO:HD3	1.66	0.42
1:K:418:LEU:HB2	1:K:428:GLY:O	2.19	0.42
1:J:384:LEU:HD22	1:J:384:LEU:H	1.84	0.42
1:A:384:LEU:HD22	1:A:384:LEU:H	1.84	0.42
1:D:375:ASN:O	1:D:385:PRO:HG3	2.19	0.42
1:I:118:GLN:HB2	1:I:118:GLN:HE21	1.66	0.42
1:A:311:GLU:O	1:A:312:ASP:CB	2.66	0.42
1:D:166:ASP:O	1:D:167:LYS:C	2.58	0.42
1:L:456:ALA:O	1:L:457:MET:HG2	2.19	0.42
1:A:255:ILE:O	1:A:256:ASP:C	2.57	0.42
1:A:411:ALA:HB1	1:B:57:PHE:HD1	1.84	0.42
1:J:255:ILE:O	1:J:256:ASP:C	2.57	0.42
1:E:218:GLN:HE21	1:E:218:GLN:HB2	1.64	0.42
1:H:634:ILE:O	1:H:638:LYS:N	2.42	0.42
1:A:386:THR:HG21	1:A:389:LEU:HD21	2.01	0.42
1:G:671:THR:O	1:G:672:VAL:C	2.57	0.42
1:B:596:ALA:O	1:B:599:ALA:HB3	2.20	0.42
1:A:617:GLN:O	1:A:621:GLU:N	2.52	0.42
1:J:543:PRO:C	1:J:545:GLY:H	2.22	0.42
1:C:617:GLN:O	1:C:621:GLU:N	2.52	0.42
1:E:561:ASP:CG	1:E:562:GLY:N	2.72	0.42
1:C:550:GLN:H	1:C:550:GLN:CD	2.21	0.42
1:F:15:PHE:O	1:F:19:TRP:HB2	2.19	0.42
1:F:208:VAL:HB	1:F:209:PHE:H	1.75	0.42
1:J:586:THR:C	1:J:588:GLU:H	2.23	0.42
1:I:438:LEU:HD11	1:J:108:LYS:HD2	2.02	0.42
1:I:418:LEU:HB2	1:I:428:GLY:O	2.19	0.42
1:A:434:THR:HG23	1:A:435:VAL:N	2.33	0.42
1:J:418:LEU:HB2	1:J:428:GLY:O	2.19	0.42
1:L:386:THR:HG21	1:L:389:LEU:HD21	2.01	0.42
1:L:118:GLN:N	1:L:123:VAL:O	2.51	0.42
1:I:255:ILE:O	1:I:256:ASP:C	2.57	0.42
1:I:352:TRP:CD1	1:J:374:LEU:O	2.70	0.42
1:H:386:THR:HG21	1:H:389:LEU:HD21	2.01	0.42
1:D:157:ILE:HG12	1:D:157:ILE:O	2.20	0.42
1:F:157:ILE:O	1:F:157:ILE:HG12	2.20	0.42
1:J:617:GLN:O	1:J:621:GLU:N	2.52	0.42
1:F:596:ALA:O	1:F:599:ALA:HB3	2.19	0.42
1:J:175:VAL:HG22	1:J:221:GLU:HB2	2.01	0.42
1:G:95:MET:O	1:G:96:GLY:C	2.58	0.42
1:F:95:MET:O	1:F:96:GLY:C	2.58	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:543:PRO:C	1:L:545:GLY:H	2.22	0.42
1:C:95:MET:O	1:C:96:GLY:C	2.58	0.42
1:C:157:ILE:O	1:C:174:THR:HG23	2.18	0.42
1:K:329:LEU:HA	1:K:329:LEU:HD13	1.92	0.42
1:D:45:LEU:O	1:D:46:SER:CB	2.68	0.42
1:E:45:LEU:O	1:E:46:SER:CB	2.68	0.42
1:A:208:VAL:HB	1:A:209:PHE:H	1.75	0.42
1:K:422:THR:HG23	1:K:423:GLU:N	2.33	0.42
1:J:122:GLY:O	1:J:305:GLY:N	2.47	0.42
1:A:369:TYR:HA	1:A:370:PRO:HD3	1.75	0.42
1:F:348:LYS:HB2	1:G:372:TYR:CD2	2.54	0.42
1:C:255:ILE:O	1:C:258:LEU:N	2.47	0.42
1:J:345:PRO:HB3	1:K:372:TYR:OH	2.20	0.42
1:K:386:THR:HG21	1:K:389:LEU:HD21	2.01	0.42
1:D:617:GLN:O	1:D:621:GLU:N	2.52	0.42
1:E:202:GLN:HE21	1:E:202:GLN:HB2	1.69	0.42
1:J:596:ALA:O	1:J:599:ALA:HB3	2.20	0.42
1:A:543:PRO:C	1:A:545:GLY:H	2.22	0.42
1:L:326:GLY:O	1:L:329:LEU:HB2	2.19	0.42
1:A:24:GLU:OE2	1:B:213:THR:HG22	2.20	0.42
1:J:440:MET:O	1:J:443:ASP:HB3	2.20	0.42
1:E:375:ASN:O	1:E:385:PRO:HG3	2.19	0.42
1:L:237:ASP:HA	1:L:238:PRO:HD2	1.83	0.42
1:C:273:ARG:HH21	1:C:513:ARG:HH22	1.67	0.42
1:A:248:LYS:HE2	1:A:513:ARG:HH12	1.85	0.42
1:J:429:GLN:H	1:J:429:GLN:CD	2.22	0.42
1:J:413:LYS:HG2	1:J:413:LYS:H	1.61	0.42
1:K:301:VAL:HA	1:K:302:PRO:HD3	1.67	0.42
1:K:375:ASN:O	1:K:385:PRO:HG3	2.19	0.42
1:L:571:TYR:CZ	1:L:575:GLN:CG	3.01	0.42
1:F:571:TYR:CZ	1:F:575:GLN:CG	3.01	0.42
1:A:166:ASP:O	1:A:167:LYS:C	2.58	0.42
1:L:175:VAL:HG22	1:L:221:GLU:HB2	2.01	0.42
1:E:157:ILE:O	1:E:174:THR:HG23	2.18	0.42
1:C:671:THR:O	1:C:672:VAL:C	2.57	0.42
1:H:95:MET:O	1:H:96:GLY:C	2.58	0.42
1:H:332:MET:O	1:H:333:ILE:C	2.58	0.42
1:K:596:ALA:O	1:K:599:ALA:HB3	2.20	0.42
1:K:175:VAL:HG22	1:K:221:GLU:HB2	2.01	0.42
1:J:332:MET:O	1:J:333:ILE:C	2.58	0.42
1:D:58:ASP:O	1:D:58:ASP:CG	2.58	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:440:MET:O	1:L:443:ASP:HB3	2.20	0.42
1:G:264:ILE:HG12	1:G:265:LYS:N	2.34	0.42
1:G:15:PHE:HE2	1:G:19:TRP:NE1	2.17	0.42
1:I:67:LEU:HG	1:I:67:LEU:H	1.68	0.42
1:G:571:TYR:CZ	1:G:575:GLN:CG	3.01	0.42
1:B:122:GLY:O	1:B:305:GLY:N	2.47	0.42
1:K:411:ALA:CB	1:L:57:PHE:CD1	3.02	0.42
1:H:229:LYS:HA	1:H:271:ILE:O	2.20	0.42
1:C:229:LYS:HA	1:C:271:ILE:O	2.20	0.42
1:C:386:THR:HG21	1:C:389:LEU:HD21	2.01	0.42
1:J:157:ILE:O	1:J:157:ILE:HG12	2.20	0.42
1:E:157:ILE:O	1:E:157:ILE:HG12	2.20	0.42
1:J:191:TYR:HE1	1:J:278:LYS:HZ3	1.67	0.42
1:G:332:MET:O	1:G:333:ILE:C	2.58	0.42
1:B:95:MET:O	1:B:96:GLY:C	2.58	0.42
1:J:58:ASP:O	1:J:58:ASP:CG	2.58	0.42
1:F:322:LEU:HD13	1:F:322:LEU:HA	1.77	0.42
1:C:326:GLY:O	1:C:329:LEU:HB2	2.19	0.42
1:H:561:ASP:CG	1:H:562:GLY:N	2.72	0.42
1:A:440:MET:O	1:A:443:ASP:HB3	2.20	0.42
1:E:550:GLN:H	1:E:550:GLN:CD	2.21	0.42
1:H:80:TYR:CZ	1:H:448:VAL:HG22	2.55	0.42
1:J:236:GLN:HB2	1:J:265:LYS:CE	2.50	0.42
1:I:80:TYR:CZ	1:I:448:VAL:HG22	2.55	0.42
1:I:15:PHE:O	1:I:19:TRP:HB2	2.19	0.42
1:A:264:ILE:HG12	1:A:265:LYS:N	2.34	0.42
1:D:248:LYS:HE2	1:D:513:ARG:HH12	1.85	0.42
1:D:273:ARG:HH21	1:D:513:ARG:HH22	1.67	0.42
1:C:561:ASP:CG	1:C:562:GLY:N	2.72	0.42
1:B:15:PHE:O	1:B:19:TRP:HB2	2.19	0.42
1:H:45:LEU:O	1:H:46:SER:CB	2.68	0.42
1:E:39:SER:O	1:E:41:TRP:N	2.50	0.42
1:E:207:TRP:O	1:E:208:VAL:C	2.58	0.42
1:I:207:TRP:O	1:I:208:VAL:C	2.58	0.42
1:G:413:LYS:HB3	1:G:413:LYS:HE2	1.88	0.42
1:K:199:PRO:HB3	1:K:282:THR:CG2	2.46	0.42
1:F:384:LEU:HD22	1:F:384:LEU:H	1.84	0.42
1:L:362:MET:HE1	1:L:369:TYR:HB3	2.02	0.42
1:A:230:GLU:HG3	1:A:231:THR:H	1.84	0.42
1:B:229:LYS:HA	1:B:271:ILE:O	2.20	0.42
1:A:229:LYS:HA	1:A:271:ILE:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:634:ILE:O	1:A:638:LYS:N	2.42	0.42
1:H:147:GLU:HA	1:H:148:PRO:HD3	1.83	0.42
1:I:122:GLY:HA3	1:I:317:GLU:C	2.41	0.42
1:A:157:ILE:HG12	1:A:157:ILE:O	2.20	0.42
1:F:332:MET:O	1:F:333:ILE:C	2.58	0.42
1:A:95:MET:O	1:A:96:GLY:C	2.58	0.42
1:G:344:THR:HA	1:G:345:PRO:HD3	1.90	0.42
1:L:58:ASP:O	1:L:58:ASP:CG	2.58	0.42
1:C:80:TYR:CZ	1:C:448:VAL:HG22	2.55	0.42
1:I:528:LYS:HB2	1:I:528:LYS:HE3	1.77	0.42
1:B:80:TYR:CZ	1:B:448:VAL:HG22	2.55	0.42
1:G:448:VAL:HB	1:G:449:PHE:CD1	2.55	0.42
1:I:236:GLN:HB2	1:I:265:LYS:CE	2.50	0.42
1:I:248:LYS:HE2	1:I:513:ARG:HH12	1.85	0.42
1:B:45:LEU:O	1:B:46:SER:CB	2.68	0.42
1:L:15:PHE:O	1:L:19:TRP:HB2	2.19	0.42
1:K:39:SER:O	1:K:41:TRP:N	2.50	0.42
1:D:207:TRP:O	1:D:208:VAL:C	2.58	0.42
1:D:586:THR:C	1:D:588:GLU:H	2.23	0.42
1:L:429:GLN:CD	1:L:429:GLN:H	2.22	0.42
1:B:586:THR:C	1:B:588:GLU:H	2.23	0.42
1:H:429:GLN:CD	1:H:429:GLN:H	2.22	0.42
1:K:352:TRP:CE2	1:L:385:PRO:HG2	2.55	0.42
1:A:375:ASN:O	1:A:385:PRO:HG3	2.19	0.42
1:C:458:ARG:HH21	1:C:500:ALA:CB	2.33	0.42
1:D:404:MET:HE1	1:E:334:MET:HA	2.02	0.42
1:F:255:ILE:O	1:F:256:ASP:C	2.57	0.42
1:K:229:LYS:HA	1:K:271:ILE:O	2.20	0.42
1:B:147:GLU:HA	1:B:148:PRO:HD3	1.83	0.42
1:F:386:THR:HG21	1:F:389:LEU:HD21	2.01	0.42
1:A:596:ALA:O	1:A:599:ALA:HB3	2.20	0.42
1:A:332:MET:O	1:A:333:ILE:C	2.58	0.42
1:E:596:ALA:O	1:E:599:ALA:HB3	2.20	0.42
1:I:329:LEU:O	1:I:330:ARG:C	2.59	0.42
1:I:58:ASP:O	1:I:58:ASP:CG	2.58	0.42
1:E:329:LEU:O	1:E:330:ARG:C	2.59	0.42
1:C:322:LEU:HD13	1:C:322:LEU:HA	1.77	0.42
1:B:207:TRP:O	1:B:208:VAL:C	2.58	0.42
1:A:80:TYR:CZ	1:A:448:VAL:HG22	2.55	0.42
1:I:561:ASP:CG	1:I:562:GLY:N	2.72	0.42
1:G:440:MET:O	1:G:443:ASP:HB3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:448:VAL:HB	1:I:449:PHE:CD1	2.55	0.42
1:B:248:LYS:HB3	1:B:511:ARG:NH1	2.35	0.42
1:K:248:LYS:HE2	1:K:513:ARG:HH12	1.85	0.42
1:L:37:ARG:HD2	1:L:37:ARG:HA	1.70	0.42
1:H:15:PHE:HE2	1:H:19:TRP:NE1	2.17	0.42
1:B:236:GLN:HB2	1:B:265:LYS:CE	2.50	0.42
1:A:207:TRP:O	1:A:208:VAL:C	2.58	0.42
1:E:586:THR:C	1:E:588:GLU:H	2.23	0.42
1:A:420:VAL:HA	1:A:428:GLY:HA3	2.02	0.42
1:D:398:PRO:CB	1:E:395:PRO:HD2	2.45	0.42
1:A:150:HIS:CE1	1:L:309:PHE:CD2	3.07	0.42
1:H:199:PRO:HB3	1:H:282:THR:CG2	2.47	0.42
1:B:420:VAL:HA	1:B:428:GLY:HA3	2.02	0.42
1:L:199:PRO:HB3	1:L:282:THR:CG2	2.47	0.42
1:C:384:LEU:HD22	1:C:384:LEU:H	1.84	0.42
1:F:458:ARG:HH21	1:F:500:ALA:CB	2.33	0.42
1:H:458:ARG:HH21	1:H:500:ALA:CB	2.33	0.42
1:L:458:ARG:HH21	1:L:500:ALA:CB	2.33	0.42
1:F:401:ASN:OD1	1:G:341:VAL:HG13	2.20	0.42
1:A:122:GLY:HA3	1:A:317:GLU:C	2.40	0.42
1:E:122:GLY:HA3	1:E:317:GLU:C	2.40	0.42
1:G:542:THR:HA	1:G:543:PRO:HD3	1.89	0.42
1:C:543:PRO:C	1:C:545:GLY:H	2.22	0.42
1:L:671:THR:O	1:L:672:VAL:C	2.57	0.42
1:F:440:MET:O	1:F:443:ASP:HB3	2.20	0.41
1:F:80:TYR:CZ	1:F:448:VAL:HG22	2.55	0.41
1:J:438:LEU:HD11	1:K:108:LYS:CE	2.50	0.41
1:D:448:VAL:HB	1:D:449:PHE:CD1	2.55	0.41
1:K:448:VAL:HB	1:K:449:PHE:CD1	2.55	0.41
1:G:164:LEU:HB2	1:H:109:ILE:HG21	2.01	0.41
1:J:45:LEU:O	1:J:46:SER:CB	2.68	0.41
1:K:45:LEU:O	1:K:46:SER:CB	2.68	0.41
1:A:586:THR:C	1:A:588:GLU:H	2.23	0.41
1:K:99:ARG:HH12	1:K:530:GLN:HE21	1.68	0.41
1:C:99:ARG:HH12	1:C:530:GLN:HE21	1.68	0.41
1:G:160:SER:HG	1:G:172:HIS:CG	2.38	0.41
1:B:458:ARG:HH21	1:B:500:ALA:CB	2.33	0.41
1:L:348:LYS:HA	1:L:349:PRO:HD3	1.87	0.41
1:E:458:ARG:HH21	1:E:500:ALA:CB	2.33	0.41
1:B:118:GLN:O	1:B:122:GLY:HA2	2.20	0.41
1:H:401:ASN:OD1	1:I:341:VAL:HG13	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:362:MET:HE1	1:D:369:TYR:HB3	2.02	0.41
1:L:230:GLU:HG3	1:L:231:THR:H	1.84	0.41
1:E:179:MET:SD	1:E:184:TRP:CA	3.08	0.41
1:L:179:MET:SD	1:L:184:TRP:CA	3.08	0.41
1:A:203:ASN:HA	1:A:204:PRO:HD3	1.74	0.41
1:G:175:VAL:HG22	1:G:221:GLU:HB2	2.01	0.41
1:F:616:LEU:O	1:F:620:ALA:N	2.44	0.41
1:A:616:LEU:O	1:A:620:ALA:N	2.44	0.41
1:I:332:MET:O	1:I:333:ILE:C	2.58	0.41
1:C:332:MET:O	1:C:333:ILE:C	2.58	0.41
1:F:671:THR:O	1:F:672:VAL:C	2.57	0.41
1:K:95:MET:O	1:K:96:GLY:C	2.58	0.41
1:E:58:ASP:O	1:E:58:ASP:CG	2.58	0.41
1:B:58:ASP:CG	1:B:58:ASP:O	2.58	0.41
1:G:561:ASP:CG	1:G:562:GLY:N	2.72	0.41
1:I:440:MET:O	1:I:443:ASP:HB3	2.20	0.41
1:C:236:GLN:HB2	1:C:265:LYS:CE	2.50	0.41
1:A:552:LEU:HD13	1:A:556:TYR:HE2	1.86	0.41
1:J:248:LYS:HB3	1:J:511:ARG:NH1	2.35	0.41
1:J:248:LYS:HE2	1:J:513:ARG:HH12	1.85	0.41
1:J:35:PHE:HE2	1:J:324:LYS:HZ3	1.66	0.41
1:H:248:LYS:HE2	1:H:513:ARG:HH12	1.85	0.41
1:H:207:TRP:O	1:H:208:VAL:C	2.58	0.41
1:I:45:LEU:O	1:I:46:SER:CB	2.68	0.41
1:F:207:TRP:O	1:F:208:VAL:C	2.58	0.41
1:H:27:ARG:CZ	1:I:211:TRP:CB	2.96	0.41
1:I:429:GLN:CD	1:I:429:GLN:H	2.22	0.41
1:F:434:THR:HA	1:F:437:GLN:NE2	2.36	0.41
1:L:561:ASP:CG	1:L:562:GLY:N	2.72	0.41
1:K:89:ASP:CA	1:L:561:ASP:HB2	2.49	0.41
1:D:434:THR:HA	1:D:437:GLN:NE2	2.36	0.41
1:K:434:THR:HA	1:K:437:GLN:NE2	2.36	0.41
1:D:118:GLN:O	1:D:122:GLY:HA2	2.20	0.41
1:L:122:GLY:HA3	1:L:317:GLU:C	2.41	0.41
1:F:118:GLN:O	1:F:122:GLY:HA2	2.20	0.41
1:J:166:ASP:O	1:J:167:LYS:C	2.58	0.41
1:B:230:GLU:HG3	1:B:231:THR:H	1.84	0.41
1:K:230:GLU:HG3	1:K:231:THR:H	1.84	0.41
1:I:350:PHE:HA	1:J:372:TYR:O	2.21	0.41
1:K:218:GLN:HE21	1:K:218:GLN:HB2	1.64	0.41
1:C:179:MET:SD	1:C:184:TRP:CA	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:179:MET:SD	1:K:184:TRP:CA	3.08	0.41
1:J:387:GLN:HG2	1:J:387:GLN:H	1.60	0.41
1:K:332:MET:O	1:K:333:ILE:C	2.58	0.41
1:I:596:ALA:O	1:I:599:ALA:HB3	2.20	0.41
1:D:332:MET:O	1:D:333:ILE:C	2.58	0.41
1:K:58:ASP:CG	1:K:58:ASP:O	2.58	0.41
1:F:58:ASP:CG	1:F:58:ASP:O	2.58	0.41
1:C:329:LEU:O	1:C:330:ARG:C	2.59	0.41
1:K:528:LYS:HE3	1:K:528:LYS:HB2	1.77	0.41
1:J:448:VAL:HB	1:J:449:PHE:CD1	2.55	0.41
1:L:80:TYR:CZ	1:L:448:VAL:HG22	2.55	0.41
1:G:236:GLN:HB2	1:G:265:LYS:CE	2.50	0.41
1:G:263:PHE:O	1:G:264:ILE:C	2.59	0.41
1:H:438:LEU:HD11	1:I:108:LYS:HD2	2.02	0.41
1:H:448:VAL:HB	1:H:449:PHE:CD1	2.55	0.41
1:K:207:TRP:O	1:K:208:VAL:C	2.58	0.41
1:G:80:TYR:CZ	1:G:448:VAL:HG22	2.55	0.41
1:A:15:PHE:HE2	1:A:19:TRP:NE1	2.17	0.41
1:L:41:TRP:CZ3	1:L:44:TRP:O	2.74	0.41
1:H:248:LYS:HB3	1:H:511:ARG:NH1	2.35	0.41
1:E:263:PHE:O	1:E:264:ILE:C	2.59	0.41
1:A:41:TRP:CZ3	1:A:44:TRP:O	2.74	0.41
1:C:586:THR:C	1:C:588:GLU:H	2.23	0.41
1:L:99:ARG:HH12	1:L:530:GLN:HE21	1.68	0.41
1:D:441:ARG:HH21	1:E:525:GLN:HE22	1.66	0.41
1:H:198:ILE:HA	1:H:199:PRO:HD3	1.74	0.41
1:J:458:ARG:HH21	1:J:500:ALA:CB	2.33	0.41
1:D:458:ARG:HH21	1:D:500:ALA:CB	2.33	0.41
1:E:434:THR:HA	1:E:437:GLN:NE2	2.36	0.41
1:K:118:GLN:O	1:K:122:GLY:HA2	2.21	0.41
1:D:312:ASP:OD2	1:E:178:SER:CB	2.68	0.41
1:F:122:GLY:HA3	1:F:317:GLU:C	2.41	0.41
1:B:552:LEU:HD13	1:B:556:TYR:HE2	1.86	0.41
1:J:552:LEU:HD13	1:J:556:TYR:HE2	1.85	0.41
1:H:387:GLN:H	1:H:387:GLN:HG2	1.60	0.41
1:A:179:MET:SD	1:A:184:TRP:CA	3.08	0.41
1:D:179:MET:SD	1:D:184:TRP:CA	3.08	0.41
1:H:203:ASN:HA	1:H:204:PRO:HD3	1.74	0.41
1:I:671:THR:O	1:I:672:VAL:C	2.57	0.41
1:B:332:MET:O	1:B:333:ILE:C	2.58	0.41
1:G:157:ILE:O	1:G:174:THR:HG23	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:272:LYS:HD3	1:B:132:TYR:O	2.20	0.41
1:H:236:GLN:HB2	1:H:265:LYS:CE	2.50	0.41
1:K:80:TYR:CZ	1:K:448:VAL:HG22	2.55	0.41
1:A:448:VAL:HB	1:A:449:PHE:CD1	2.55	0.41
1:B:448:VAL:HB	1:B:449:PHE:CD1	2.55	0.41
1:C:15:PHE:HE2	1:C:19:TRP:NE1	2.17	0.41
1:E:552:LEU:HD13	1:E:556:TYR:HE2	1.85	0.41
1:I:263:PHE:O	1:I:264:ILE:C	2.59	0.41
1:L:248:LYS:HE2	1:L:513:ARG:HH12	1.85	0.41
1:A:248:LYS:HB3	1:A:511:ARG:NH1	2.35	0.41
1:E:41:TRP:CZ3	1:E:44:TRP:O	2.74	0.41
1:J:207:TRP:O	1:J:208:VAL:C	2.58	0.41
1:A:99:ARG:HH12	1:A:530:GLN:HE21	1.68	0.41
1:A:67:LEU:HG	1:A:67:LEU:H	1.68	0.41
1:I:99:ARG:HH12	1:I:530:GLN:HE21	1.68	0.41
1:B:413:LYS:HE2	1:B:413:LYS:HB3	1.88	0.41
1:H:554:LEU:HD22	1:I:567:MET:CE	2.50	0.41
1:B:384:LEU:HD22	1:B:384:LEU:H	1.84	0.41
1:E:420:VAL:HA	1:E:428:GLY:HA3	2.02	0.41
1:E:400:ALA:HB2	1:F:395:PRO:HB2	2.01	0.41
1:H:384:LEU:HD22	1:H:384:LEU:H	1.84	0.41
1:D:122:GLY:HA3	1:D:317:GLU:C	2.41	0.41
1:H:118:GLN:O	1:H:122:GLY:HA2	2.20	0.41
1:B:122:GLY:HA3	1:B:317:GLU:C	2.40	0.41
1:C:350:PHE:CE1	1:D:372:TYR:HB2	2.55	0.41
1:E:118:GLN:O	1:E:122:GLY:HA2	2.21	0.41
1:F:229:LYS:HA	1:F:271:ILE:O	2.20	0.41
1:G:390:ALA:HB3	1:H:387:GLN:OE1	2.20	0.41
1:J:386:THR:HG21	1:J:389:LEU:HD21	2.01	0.41
1:H:277:TYR:CE1	1:H:292:LEU:HD12	2.56	0.41
1:D:463:ILE:HA	1:D:496:VAL:O	2.21	0.41
1:G:277:TYR:CE1	1:G:292:LEU:HD12	2.56	0.41
1:H:58:ASP:CG	1:H:58:ASP:O	2.58	0.41
1:D:329:LEU:O	1:D:330:ARG:C	2.58	0.41
1:E:554:LEU:HD21	1:F:564:GLY:CA	2.33	0.41
1:G:41:TRP:CZ3	1:G:44:TRP:O	2.74	0.41
1:D:41:TRP:CZ3	1:D:44:TRP:O	2.74	0.41
1:H:41:TRP:CZ3	1:H:44:TRP:O	2.74	0.41
1:K:41:TRP:CZ3	1:K:44:TRP:O	2.74	0.41
1:A:48:TYR:CZ	1:A:210:PRO:HG2	2.56	0.41
1:J:208:VAL:HB	1:J:209:PHE:H	1.75	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:48:TYR:CZ	1:J:210:PRO:HG2	2.56	0.41
1:C:48:TYR:CZ	1:C:210:PRO:HG2	2.56	0.41
1:E:138:THR:HG23	1:E:143:VAL:CG2	2.37	0.41
1:F:586:THR:C	1:F:588:GLU:H	2.23	0.41
1:I:422:THR:HG22	1:I:425:VAL:CG2	2.51	0.41
1:K:586:THR:C	1:K:588:GLU:H	2.23	0.41
1:G:413:LYS:HG2	1:G:413:LYS:H	1.61	0.41
1:B:434:THR:HA	1:B:437:GLN:NE2	2.36	0.41
1:H:118:GLN:HB2	1:H:118:GLN:HE21	1.66	0.41
1:G:122:GLY:HA3	1:G:317:GLU:C	2.41	0.41
1:B:310:VAL:HB	1:B:311:GLU:H	1.74	0.41
1:G:166:ASP:O	1:G:167:LYS:C	2.58	0.41
1:H:166:ASP:OD1	1:H:168:SER:CB	2.68	0.41
1:L:229:LYS:HA	1:L:271:ILE:O	2.20	0.41
1:J:147:GLU:HA	1:J:148:PRO:HD3	1.83	0.41
1:C:139:SER:HB3	1:C:455:THR:HG23	2.03	0.41
1:G:179:MET:SD	1:G:184:TRP:CA	3.08	0.41
1:J:541:LYS:HE2	1:J:541:LYS:HB2	1.79	0.41
1:B:463:ILE:HA	1:B:496:VAL:O	2.21	0.41
1:L:596:ALA:O	1:L:599:ALA:HB3	2.20	0.41
1:I:277:TYR:CE1	1:I:292:LEU:HD12	2.56	0.41
1:I:463:ILE:HA	1:I:496:VAL:O	2.21	0.41
1:L:332:MET:O	1:L:333:ILE:C	2.58	0.41
1:L:617:GLN:O	1:L:621:GLU:N	2.52	0.41
1:C:463:ILE:HA	1:C:496:VAL:O	2.21	0.41
1:I:95:MET:O	1:I:96:GLY:C	2.58	0.41
1:D:95:MET:O	1:D:96:GLY:C	2.58	0.41
1:B:277:TYR:CE1	1:B:292:LEU:HD12	2.56	0.41
1:G:329:LEU:O	1:G:330:ARG:C	2.59	0.41
1:F:326:GLY:O	1:F:329:LEU:HB2	2.19	0.41
1:B:322:LEU:HA	1:B:322:LEU:HD13	1.77	0.41
1:G:207:TRP:O	1:G:208:VAL:C	2.58	0.41
1:G:208:VAL:HB	1:G:211:TRP:CZ2	2.56	0.41
1:B:208:VAL:HB	1:B:211:TRP:CZ2	2.56	0.41
1:B:48:TYR:CZ	1:B:210:PRO:HG2	2.56	0.41
1:E:554:LEU:HD22	1:F:567:MET:CE	2.50	0.41
1:B:546:THR:O	1:B:547:PRO:C	2.59	0.41
1:B:248:LYS:HE2	1:B:513:ARG:HH12	1.85	0.41
1:L:248:LYS:HB3	1:L:511:ARG:NH1	2.35	0.41
1:C:45:LEU:O	1:C:46:SER:CB	2.68	0.41
1:F:45:LEU:O	1:F:46:SER:CB	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:236:GLN:HB3	1:D:265:LYS:HZ3	1.81	0.41
1:G:248:LYS:HB3	1:G:511:ARG:NH1	2.36	0.41
1:G:248:LYS:HE2	1:G:513:ARG:HH12	1.85	0.41
1:E:386:THR:HG21	1:E:389:LEU:HD21	2.01	0.41
1:L:207:TRP:O	1:L:208:VAL:C	2.58	0.41
1:L:48:TYR:CZ	1:L:210:PRO:HG2	2.56	0.41
1:E:138:THR:HG1	1:E:143:VAL:HA	1.85	0.41
1:L:422:THR:HG22	1:L:425:VAL:CG2	2.51	0.41
1:D:99:ARG:HH12	1:D:530:GLN:HE21	1.68	0.41
1:H:99:ARG:HH12	1:H:530:GLN:HE21	1.68	0.41
1:H:557:PHE:CE2	1:I:563:LYS:HD3	2.55	0.41
1:G:225:VAL:HG21	1:G:298:ILE:HD11	2.03	0.41
1:I:225:VAL:HG21	1:I:298:ILE:HD11	2.03	0.41
1:F:420:VAL:HA	1:F:428:GLY:HA3	2.02	0.41
1:A:337:ASN:HB2	1:L:404:MET:CE	2.50	0.41
1:H:122:GLY:HA3	1:H:317:GLU:C	2.40	0.41
1:J:122:GLY:HA3	1:J:317:GLU:C	2.40	0.41
1:E:362:MET:HE1	1:E:369:TYR:HB3	2.03	0.41
1:I:166:ASP:OD1	1:I:168:SER:CB	2.68	0.41
1:I:552:LEU:HD13	1:I:556:TYR:HE2	1.86	0.41
1:B:166:ASP:O	1:B:167:LYS:C	2.58	0.41
1:E:229:LYS:HA	1:E:271:ILE:O	2.20	0.41
1:F:179:MET:SD	1:F:184:TRP:CA	3.08	0.41
1:K:126:TRP:C	1:K:126:TRP:CD1	2.94	0.41
1:H:126:TRP:C	1:H:126:TRP:CD1	2.94	0.41
1:G:543:PRO:C	1:G:545:GLY:H	2.22	0.41
1:A:723:THR:CB	1:B:725:GLN:O	2.68	0.41
1:L:157:ILE:O	1:L:157:ILE:HG12	2.20	0.41
1:B:157:ILE:O	1:B:157:ILE:HG12	2.20	0.41
1:L:95:MET:O	1:L:96:GLY:C	2.58	0.41
1:E:332:MET:O	1:E:333:ILE:C	2.58	0.41
1:I:616:LEU:O	1:I:620:ALA:N	2.44	0.41
1:F:203:ASN:HA	1:F:204:PRO:HD3	1.74	0.41
1:H:463:ILE:HA	1:H:496:VAL:O	2.21	0.41
1:B:329:LEU:O	1:B:330:ARG:C	2.59	0.41
1:G:208:VAL:HB	1:G:209:PHE:H	1.75	0.41
1:G:528:LYS:HE3	1:G:528:LYS:HB2	1.77	0.41
1:J:80:TYR:CZ	1:J:448:VAL:HG22	2.55	0.41
1:C:448:VAL:HB	1:C:449:PHE:CD1	2.55	0.41
1:E:248:LYS:H	1:E:248:LYS:CD	2.29	0.41
1:L:295:GLY:HA2	1:L:453:LEU:CD2	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:41:TRP:CZ3	1:I:44:TRP:O	2.74	0.41
1:B:263:PHE:O	1:B:264:ILE:C	2.59	0.41
1:D:48:TYR:CZ	1:D:210:PRO:HG2	2.56	0.41
1:E:208:VAL:HB	1:E:211:TRP:CZ2	2.56	0.41
1:L:208:VAL:HB	1:L:209:PHE:H	1.75	0.41
1:L:208:VAL:HB	1:L:211:TRP:CZ2	2.56	0.41
1:I:208:VAL:HB	1:I:211:TRP:CZ2	2.56	0.41
1:L:586:THR:C	1:L:588:GLU:H	2.23	0.41
1:H:166:ASP:O	1:H:167:LYS:C	2.58	0.41
1:E:166:ASP:O	1:E:167:LYS:C	2.58	0.41
1:J:65:ARG:O	1:J:69:SER:HB2	2.21	0.41
1:B:139:SER:HB3	1:B:455:THR:HG23	2.03	0.41
1:J:179:MET:SD	1:J:184:TRP:CA	3.08	0.41
1:B:179:MET:SD	1:B:184:TRP:CA	3.08	0.41
1:A:463:ILE:HA	1:A:496:VAL:O	2.21	0.41
1:K:277:TYR:CE1	1:K:292:LEU:HD12	2.56	0.41
1:C:596:ALA:O	1:C:599:ALA:HB3	2.20	0.41
1:J:528:LYS:HB2	1:J:528:LYS:HE3	1.77	0.41
1:D:80:TYR:CZ	1:D:448:VAL:HG22	2.55	0.41
1:E:448:VAL:HB	1:E:449:PHE:CD1	2.55	0.41
1:E:80:TYR:CZ	1:E:448:VAL:HG22	2.55	0.41
1:B:528:LYS:HE3	1:B:528:LYS:HB2	1.77	0.41
1:D:248:LYS:HB3	1:D:511:ARG:NH1	2.35	0.41
1:D:295:GLY:HA2	1:D:453:LEU:CD2	2.51	0.41
1:K:295:GLY:HA2	1:K:453:LEU:CD2	2.51	0.41
1:I:248:LYS:HB3	1:I:511:ARG:NH1	2.36	0.41
1:C:248:LYS:HE2	1:C:513:ARG:HH12	1.85	0.41
1:L:45:LEU:O	1:L:46:SER:CB	2.68	0.41
1:J:554:LEU:HD21	1:K:564:GLY:CA	2.36	0.41
1:E:236:GLN:HB2	1:E:265:LYS:CE	2.50	0.41
1:D:37:ARG:HD2	1:D:37:ARG:HA	1.70	0.41
1:C:41:TRP:CZ3	1:C:44:TRP:O	2.74	0.41
1:F:37:ARG:NH2	1:F:41:TRP:CZ3	2.89	0.41
1:F:248:LYS:HB3	1:F:511:ARG:NH1	2.35	0.41
1:D:208:VAL:HB	1:D:209:PHE:H	1.75	0.41
1:C:423:GLU:O	1:C:424:ALA:HB3	2.21	0.41
1:E:99:ARG:HH12	1:E:530:GLN:HE21	1.68	0.41
1:L:420:VAL:HA	1:L:428:GLY:HA3	2.02	0.41
1:C:420:VAL:HA	1:C:428:GLY:HA3	2.02	0.41
1:I:438:LEU:HD11	1:J:108:LYS:CE	2.51	0.41
1:D:301:VAL:HA	1:D:302:PRO:HD3	1.67	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:420:VAL:HA	1:J:428:GLY:HA3	2.02	0.41
1:A:352:TRP:CG	1:B:376:ARG:HB2	2.55	0.41
1:H:420:VAL:HA	1:H:428:GLY:HA3	2.02	0.41
1:D:420:VAL:HA	1:D:428:GLY:HA3	2.02	0.41
1:L:118:GLN:O	1:L:122:GLY:HA2	2.21	0.41
1:L:552:LEU:HD13	1:L:556:TYR:HE2	1.85	0.41
1:A:362:MET:HE1	1:A:369:TYR:HB3	2.03	0.41
1:G:231:THR:O	1:G:249:ARG:CB	2.69	0.41
1:B:541:LYS:HE2	1:B:541:LYS:HB2	1.79	0.41
1:G:157:ILE:O	1:G:157:ILE:HG12	2.20	0.41
1:K:335:SER:O	1:K:338:ALA:HB3	2.21	0.41
1:I:559:LEU:HA	1:I:559:LEU:HD23	1.85	0.41
1:G:521:GLY:O	1:G:522:PRO:C	2.59	0.41
1:G:362:MET:HE1	1:G:369:TYR:HB3	2.03	0.41
1:F:329:LEU:O	1:F:330:ARG:C	2.59	0.41
1:E:322:LEU:HA	1:E:322:LEU:HD13	1.77	0.41
1:C:325:ASP:OD2	1:D:56:GLN:HB2	2.20	0.41
1:A:27:ARG:CG	1:B:212:LEU:HD13	2.42	0.41
1:B:209:PHE:CE2	1:B:214:GLN:HG2	2.56	0.41
1:D:350:PHE:HB3	1:E:374:LEU:HD12	2.02	0.41
1:C:434:THR:HA	1:C:437:GLN:NE2	2.36	0.41
1:K:48:TYR:CZ	1:K:210:PRO:HG2	2.56	0.41
1:J:546:THR:O	1:J:547:PRO:C	2.59	0.41
1:C:263:PHE:O	1:C:264:ILE:O	2.39	0.41
1:C:263:PHE:O	1:C:264:ILE:C	2.59	0.41
1:G:546:THR:O	1:G:547:PRO:C	2.59	0.41
1:A:237:ASP:HA	1:A:238:PRO:HD2	1.83	0.41
1:A:236:GLN:HB2	1:A:265:LYS:CE	2.50	0.41
1:A:263:PHE:O	1:A:264:ILE:C	2.59	0.41
1:F:236:GLN:HB2	1:F:265:LYS:CE	2.50	0.41
1:F:546:THR:O	1:F:547:PRO:C	2.59	0.41
1:D:248:LYS:HZ1	1:D:513:ARG:HH12	1.67	0.41
1:C:528:LYS:HE3	1:C:528:LYS:HB2	1.77	0.41
1:K:248:LYS:HB3	1:K:511:ARG:NH1	2.35	0.41
1:E:248:LYS:HB3	1:E:511:ARG:NH1	2.35	0.41
1:E:248:LYS:HE2	1:E:513:ARG:HH12	1.85	0.41
1:G:45:LEU:O	1:G:46:SER:CB	2.68	0.41
1:J:45:LEU:N	1:J:45:LEU:CD2	2.83	0.41
1:L:45:LEU:CD2	1:L:45:LEU:N	2.83	0.41
1:H:208:VAL:HB	1:H:211:TRP:CZ2	2.56	0.41
1:C:35:PHE:O	1:C:37:ARG:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:35:PHE:O	1:D:37:ARG:N	2.54	0.41
1:D:45:LEU:N	1:D:45:LEU:CD2	2.83	0.41
1:F:41:TRP:CZ3	1:F:44:TRP:O	2.74	0.41
1:B:41:TRP:CZ3	1:B:44:TRP:O	2.74	0.41
1:B:45:LEU:CD2	1:B:45:LEU:N	2.83	0.41
1:D:236:GLN:HB2	1:D:265:LYS:CE	2.50	0.41
1:D:263:PHE:O	1:D:264:ILE:O	2.39	0.41
1:K:35:PHE:O	1:K:37:ARG:N	2.54	0.41
1:J:208:VAL:HB	1:J:211:TRP:CZ2	2.56	0.41
1:D:390:ALA:HB2	1:E:387:GLN:HB2	1.95	0.41
1:I:208:VAL:HB	1:I:209:PHE:H	1.75	0.41
1:L:423:GLU:O	1:L:424:ALA:HB3	2.21	0.41
1:E:423:GLU:O	1:E:424:ALA:HB3	2.21	0.41
1:J:99:ARG:HH12	1:J:530:GLN:HE21	1.68	0.41
1:I:413:LYS:HB3	1:I:413:LYS:HE2	1.88	0.41
1:B:225:VAL:HG21	1:B:298:ILE:HD11	2.03	0.41
1:J:404:MET:CE	1:K:337:ASN:HB2	2.51	0.41
1:C:199:PRO:HB3	1:C:282:THR:CG2	2.46	0.41
1:D:198:ILE:HA	1:D:199:PRO:HD3	1.74	0.41
1:K:122:GLY:O	1:K:305:GLY:N	2.47	0.41
1:C:118:GLN:HB2	1:C:118:GLN:HE21	1.66	0.41
1:C:122:GLY:HA3	1:C:317:GLU:C	2.40	0.41
1:G:118:GLN:O	1:G:122:GLY:HA2	2.21	0.41
1:G:311:GLU:O	1:G:312:ASP:CB	2.66	0.41
1:G:552:LEU:CD1	1:G:556:TYR:HE2	2.34	0.41
1:I:65:ARG:O	1:I:69:SER:HB2	2.21	0.41
1:B:231:THR:O	1:B:249:ARG:CB	2.69	0.41
1:F:231:THR:O	1:F:249:ARG:HB3	2.21	0.41
1:I:231:THR:O	1:I:249:ARG:CB	2.69	0.41
1:E:348:LYS:HB3	1:F:371:TYR:HA	2.03	0.41
1:L:231:THR:O	1:L:249:ARG:CB	2.69	0.41
1:D:231:THR:O	1:D:249:ARG:CB	2.69	0.41
1:D:231:THR:O	1:D:249:ARG:HB3	2.21	0.41
1:G:229:LYS:HA	1:G:271:ILE:O	2.20	0.41
1:E:246:TYR:CD2	1:E:510:ILE:HG12	2.56	0.41
1:L:139:SER:HB3	1:L:455:THR:HG23	2.03	0.41
1:G:139:SER:HB3	1:G:455:THR:HG23	2.03	0.41
1:B:126:TRP:C	1:B:126:TRP:CD1	2.94	0.41
1:J:126:TRP:CD1	1:J:126:TRP:C	2.94	0.41
1:I:179:MET:SD	1:I:184:TRP:CA	3.08	0.41
1:K:309:PHE:HB2	1:L:150:HIS:ND1	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:175:VAL:O	1:H:220:ALA:HB1	2.21	0.41
1:I:175:VAL:O	1:I:220:ALA:HB1	2.21	0.41
1:K:157:ILE:O	1:K:157:ILE:HG12	2.20	0.41
1:J:175:VAL:O	1:J:220:ALA:HB1	2.21	0.41
1:C:157:ILE:O	1:C:157:ILE:HG12	2.20	0.41
1:L:175:VAL:O	1:L:220:ALA:HB1	2.21	0.41
1:G:60:VAL:O	1:G:61:ARG:C	2.59	0.41
1:D:521:GLY:O	1:D:522:PRO:C	2.59	0.41
1:F:31:ASN:HD22	1:F:31:ASN:HA	1.65	0.41
1:C:346:LYS:HG3	1:D:367:ASP:OD1	2.21	0.41
1:F:344:THR:HA	1:F:345:PRO:HD3	1.90	0.41
1:C:65:ARG:O	1:C:69:SER:HB2	2.21	0.41
1:L:463:ILE:HA	1:L:496:VAL:O	2.21	0.41
1:G:463:ILE:HA	1:G:496:VAL:O	2.21	0.41
1:L:335:SER:O	1:L:338:ALA:HB3	2.21	0.41
1:H:596:ALA:O	1:H:599:ALA:HB3	2.20	0.41
1:J:60:VAL:O	1:J:61:ARG:C	2.59	0.41
1:A:521:GLY:O	1:A:522:PRO:C	2.59	0.41
1:B:335:SER:O	1:B:338:ALA:HB3	2.21	0.41
1:E:521:GLY:O	1:E:522:PRO:C	2.59	0.41
1:F:65:ARG:O	1:F:69:SER:HB2	2.21	0.41
1:L:329:LEU:O	1:L:330:ARG:C	2.59	0.41
1:J:329:LEU:O	1:J:330:ARG:C	2.58	0.41
1:K:329:LEU:O	1:K:330:ARG:C	2.59	0.41
1:G:88:PRO:C	1:H:561:ASP:HB2	2.41	0.41
1:G:89:ASP:N	1:H:561:ASP:HB2	2.35	0.41
1:H:264:ILE:O	1:H:265:LYS:CD	2.68	0.41
1:K:236:GLN:HB2	1:K:265:LYS:CE	2.50	0.41
1:L:448:VAL:HB	1:L:449:PHE:CD1	2.55	0.41
1:B:550:GLN:O	1:B:551:LEU:C	2.60	0.41
1:C:238:PRO:HG2	1:C:239:VAL:HG23	2.03	0.41
1:F:263:PHE:O	1:F:264:ILE:O	2.39	0.41
1:I:263:PHE:O	1:I:264:ILE:O	2.39	0.41
1:L:236:GLN:HB2	1:L:265:LYS:CE	2.50	0.41
1:F:35:PHE:O	1:F:37:ARG:N	2.54	0.41
1:A:35:PHE:O	1:A:37:ARG:N	2.54	0.41
1:A:45:LEU:N	1:A:45:LEU:CD2	2.83	0.41
1:A:45:LEU:O	1:A:46:SER:CB	2.68	0.41
1:J:209:PHE:CE2	1:J:214:GLN:HG2	2.56	0.41
1:J:590:GLN:O	1:J:591:GLN:C	2.60	0.41
1:C:209:PHE:CE2	1:C:214:GLN:HG2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:590:GLN:O	1:B:591:GLN:C	2.60	0.41
1:G:423:GLU:O	1:G:424:ALA:HB3	2.21	0.41
1:C:422:THR:HG22	1:C:425:VAL:CG2	2.51	0.41
1:C:225:VAL:HG21	1:C:298:ILE:HD11	2.03	0.41
1:K:165:MET:HE3	1:K:435:VAL:HB	2.03	0.41
1:G:111:VAL:O	1:G:114:ALA:HB3	2.21	0.41
1:L:122:GLY:O	1:L:305:GLY:N	2.47	0.41
1:C:350:PHE:CE1	1:D:372:TYR:HB3	2.56	0.41
1:A:118:GLN:O	1:A:122:GLY:HA2	2.20	0.41
1:K:166:ASP:O	1:K:167:LYS:C	2.58	0.41
1:J:552:LEU:CD1	1:J:556:TYR:HE2	2.34	0.41
1:K:231:THR:O	1:K:249:ARG:CB	2.69	0.41
1:L:231:THR:O	1:L:249:ARG:HB3	2.21	0.41
1:G:350:PHE:HE1	1:H:363:TYR:HE1	1.68	0.41
1:D:229:LYS:HA	1:D:271:ILE:O	2.20	0.41
1:F:246:TYR:CD2	1:F:510:ILE:HG12	2.56	0.41
1:H:542:THR:HA	1:H:543:PRO:HD3	1.89	0.41
1:I:157:ILE:O	1:I:157:ILE:HG12	2.20	0.41
1:D:175:VAL:O	1:D:220:ALA:HB1	2.21	0.41
1:A:573:ASN:O	1:A:574:LYS:C	2.60	0.41
1:E:83:LYS:HE3	1:E:517:TYR:HB3	2.03	0.41
1:G:8:LEU:HA	1:G:8:LEU:HD23	1.98	0.41
1:L:521:GLY:O	1:L:522:PRO:C	2.59	0.41
1:A:408:ALA:O	1:A:412:VAL:HG23	2.21	0.41
1:E:277:TYR:CE1	1:E:292:LEU:HD12	2.56	0.41
1:D:277:TYR:CE1	1:D:292:LEU:HD12	2.56	0.41
1:K:521:GLY:O	1:K:522:PRO:C	2.59	0.41
1:F:463:ILE:HA	1:F:496:VAL:O	2.21	0.41
1:H:521:GLY:O	1:H:522:PRO:C	2.60	0.41
1:E:65:ARG:O	1:E:69:SER:HB2	2.21	0.41
1:G:596:ALA:O	1:G:599:ALA:HB3	2.20	0.41
1:C:83:LYS:HE3	1:C:517:TYR:HB3	2.03	0.41
1:C:521:GLY:O	1:C:522:PRO:C	2.59	0.41
1:H:642:GLN:O	1:H:646:ASN:CB	2.69	0.41
1:H:322:LEU:HD13	1:H:322:LEU:HA	1.77	0.40
1:C:58:ASP:O	1:C:58:ASP:CG	2.58	0.40
1:G:209:PHE:CE2	1:G:214:GLN:HG2	2.56	0.40
1:K:263:PHE:O	1:K:264:ILE:C	2.59	0.40
1:G:263:PHE:O	1:G:264:ILE:O	2.39	0.40
1:H:437:GLN:HA	1:H:440:MET:HB2	2.04	0.40
1:K:208:VAL:HB	1:K:211:TRP:CZ2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:550:GLN:O	1:L:551:LEU:C	2.60	0.40
1:C:248:LYS:HB3	1:C:511:ARG:NH1	2.35	0.40
1:J:37:ARG:NH2	1:J:41:TRP:CZ3	2.89	0.40
1:K:37:ARG:NH2	1:K:41:TRP:CZ3	2.89	0.40
1:K:45:LEU:N	1:K:45:LEU:CD2	2.83	0.40
1:E:209:PHE:CE2	1:E:214:GLN:HG2	2.56	0.40
1:F:423:GLU:O	1:F:424:ALA:HB3	2.21	0.40
1:A:66:LYS:HZ3	1:A:420:VAL:HG11	1.85	0.40
1:F:225:VAL:HG21	1:F:298:ILE:HD11	2.03	0.40
1:K:225:VAL:HG21	1:K:298:ILE:HD11	2.03	0.40
1:J:158:TRP:HB3	1:J:173:CYS:H	1.87	0.40
1:J:225:VAL:HG21	1:J:298:ILE:HD11	2.03	0.40
1:D:225:VAL:HG21	1:D:298:ILE:HD11	2.03	0.40
1:G:420:VAL:HA	1:G:428:GLY:HA3	2.02	0.40
1:A:434:THR:HA	1:A:437:GLN:NE2	2.36	0.40
1:K:420:VAL:HA	1:K:428:GLY:HA3	2.02	0.40
1:E:67:LEU:HG	1:E:67:LEU:H	1.68	0.40
1:G:458:ARG:HH21	1:G:500:ALA:CB	2.33	0.40
1:K:552:LEU:HD13	1:K:556:TYR:HE2	1.86	0.40
1:C:166:ASP:OD1	1:C:168:SER:CB	2.68	0.40
1:A:166:ASP:OD1	1:A:168:SER:CB	2.68	0.40
1:C:231:THR:O	1:C:249:ARG:HB3	2.21	0.40
1:E:411:ALA:CB	1:F:57:PHE:CD1	3.05	0.40
1:G:348:LYS:HB3	1:H:371:TYR:HA	2.03	0.40
1:E:231:THR:O	1:E:249:ARG:CB	2.69	0.40
1:F:231:THR:O	1:F:249:ARG:CB	2.69	0.40
1:I:229:LYS:HA	1:I:271:ILE:O	2.20	0.40
1:J:139:SER:HB3	1:J:455:THR:HG23	2.02	0.40
1:I:126:TRP:C	1:I:126:TRP:CD1	2.94	0.40
1:E:126:TRP:C	1:E:126:TRP:CD1	2.94	0.40
1:H:179:MET:SD	1:H:184:TRP:CA	3.08	0.40
1:K:175:VAL:O	1:K:220:ALA:HB1	2.21	0.40
1:J:277:TYR:CE1	1:J:292:LEU:HD12	2.56	0.40
1:B:408:ALA:O	1:B:412:VAL:HG23	2.22	0.40
1:J:463:ILE:HA	1:J:496:VAL:O	2.21	0.40
1:H:617:GLN:O	1:H:621:GLU:N	2.52	0.40
1:K:463:ILE:HA	1:K:496:VAL:O	2.21	0.40
1:E:408:ALA:O	1:E:412:VAL:HG23	2.21	0.40
1:B:329:LEU:HA	1:B:329:LEU:HD13	1.92	0.40
1:D:83:LYS:HE3	1:D:517:TYR:HB3	2.04	0.40
1:J:437:GLN:HA	1:J:440:MET:HB2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:434:THR:HA	1:L:437:GLN:NE2	2.36	0.40
1:L:165:MET:HE3	1:L:435:VAL:HB	2.03	0.40
1:C:437:GLN:HA	1:C:440:MET:HB2	2.04	0.40
1:E:554:LEU:HD22	1:F:567:MET:HE2	2.02	0.40
1:K:546:THR:O	1:K:547:PRO:C	2.59	0.40
1:G:15:PHE:CE1	1:G:283:CYS:HA	2.57	0.40
1:E:552:LEU:CD1	1:E:556:TYR:HE2	2.34	0.40
1:D:15:PHE:CE1	1:D:283:CYS:HA	2.57	0.40
1:I:295:GLY:HA2	1:I:453:LEU:CD2	2.51	0.40
1:G:37:ARG:NH2	1:G:41:TRP:CZ3	2.89	0.40
1:J:31:ASN:HB3	1:J:35:PHE:CZ	2.57	0.40
1:A:295:GLY:HA2	1:A:453:LEU:CD2	2.51	0.40
1:H:48:TYR:CZ	1:H:210:PRO:HG2	2.56	0.40
1:H:31:ASN:HB3	1:H:35:PHE:CZ	2.57	0.40
1:H:37:ARG:NH2	1:H:41:TRP:CZ3	2.89	0.40
1:F:248:LYS:CG	1:F:511:ARG:NH1	2.83	0.40
1:D:590:GLN:O	1:D:591:GLN:C	2.60	0.40
1:A:423:GLU:O	1:A:424:ALA:HB3	2.21	0.40
1:I:423:GLU:O	1:I:424:ALA:HB3	2.21	0.40
1:E:310:VAL:HB	1:E:311:GLU:H	1.75	0.40
1:F:166:ASP:O	1:F:167:LYS:C	2.58	0.40
1:I:552:LEU:CD1	1:I:556:TYR:HE2	2.34	0.40
1:C:231:THR:O	1:C:249:ARG:CB	2.69	0.40
1:G:230:GLU:HG3	1:G:231:THR:H	1.84	0.40
1:G:231:THR:O	1:G:249:ARG:HB3	2.21	0.40
1:D:370:PRO:HB2	1:D:371:TYR:CE1	2.57	0.40
1:J:229:LYS:HA	1:J:271:ILE:O	2.20	0.40
1:J:246:TYR:CD2	1:J:510:ILE:HG12	2.56	0.40
1:L:246:TYR:CD2	1:L:510:ILE:HG12	2.56	0.40
1:I:246:TYR:CD2	1:I:510:ILE:HG12	2.56	0.40
1:D:246:TYR:CD2	1:D:510:ILE:HG12	2.56	0.40
1:J:238:PRO:HG2	1:J:239:VAL:HG23	2.04	0.40
1:A:139:SER:HB3	1:A:455:THR:HG23	2.03	0.40
1:F:126:TRP:C	1:F:126:TRP:CD1	2.94	0.40
1:L:126:TRP:C	1:L:126:TRP:CD1	2.94	0.40
1:C:171:ARG:HH21	1:D:182:ASN:HD22	1.68	0.40
1:B:175:VAL:O	1:B:220:ALA:HB1	2.21	0.40
1:C:277:TYR:CE1	1:C:292:LEU:HD12	2.56	0.40
1:F:83:LYS:HE3	1:F:517:TYR:HB3	2.04	0.40
1:F:335:SER:O	1:F:338:ALA:HB3	2.21	0.40
1:D:642:GLN:O	1:D:646:ASN:CB	2.70	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:573:ASN:O	1:I:574:LYS:C	2.60	0.40
1:G:617:GLN:O	1:G:621:GLU:N	2.52	0.40
1:F:277:TYR:CE1	1:F:292:LEU:HD12	2.56	0.40
1:I:408:ALA:O	1:I:412:VAL:HG23	2.21	0.40
1:J:83:LYS:HE3	1:J:517:TYR:HB3	2.03	0.40
1:I:521:GLY:O	1:I:522:PRO:C	2.59	0.40
1:J:335:SER:O	1:J:338:ALA:HB3	2.21	0.40
1:D:335:SER:O	1:D:338:ALA:HB3	2.21	0.40
1:A:329:LEU:O	1:A:330:ARG:C	2.59	0.40
1:G:48:TYR:CZ	1:G:210:PRO:HG2	2.56	0.40
1:F:448:VAL:HB	1:F:449:PHE:CD1	2.55	0.40
1:J:434:THR:HA	1:J:437:GLN:NE2	2.36	0.40
1:H:434:THR:HA	1:H:437:GLN:NE2	2.36	0.40
1:K:209:PHE:CE2	1:K:214:GLN:HG2	2.56	0.40
1:C:15:PHE:CE1	1:C:283:CYS:HA	2.57	0.40
1:D:546:THR:O	1:D:547:PRO:C	2.59	0.40
1:E:295:GLY:HA2	1:E:453:LEU:CD2	2.51	0.40
1:G:35:PHE:O	1:G:37:ARG:N	2.54	0.40
1:J:554:LEU:HD22	1:K:567:MET:HE2	2.03	0.40
1:H:248:LYS:CE	1:H:513:ARG:HH12	2.35	0.40
1:H:295:GLY:HA2	1:H:453:LEU:CD2	2.51	0.40
1:D:328:ARG:HA	1:D:331:ASN:ND2	2.36	0.40
1:B:35:PHE:O	1:B:37:ARG:N	2.54	0.40
1:I:35:PHE:O	1:I:37:ARG:N	2.54	0.40
1:F:248:LYS:HE2	1:F:513:ARG:HH12	1.85	0.40
1:B:263:PHE:O	1:B:264:ILE:O	2.39	0.40
1:C:27:ARG:CZ	1:D:211:TRP:CB	2.93	0.40
1:F:209:PHE:CE2	1:F:214:GLN:HG2	2.56	0.40
1:C:208:VAL:HB	1:C:211:TRP:CZ2	2.56	0.40
1:J:422:THR:HG22	1:J:425:VAL:CG2	2.51	0.40
1:H:423:GLU:O	1:H:424:ALA:HB3	2.21	0.40
1:G:590:GLN:O	1:G:591:GLN:C	2.60	0.40
1:A:65:ARG:O	1:A:69:SER:HB2	2.21	0.40
1:L:158:TRP:HB3	1:L:173:CYS:H	1.87	0.40
1:H:348:LYS:HA	1:H:349:PRO:HD3	1.87	0.40
1:I:458:ARG:HH21	1:I:500:ALA:CB	2.33	0.40
1:H:404:MET:SD	1:I:337:ASN:CB	3.09	0.40
1:K:122:GLY:HA3	1:K:317:GLU:C	2.41	0.40
1:C:118:GLN:O	1:C:122:GLY:HA2	2.21	0.40
1:B:111:VAL:O	1:B:114:ALA:HB3	2.21	0.40
1:J:118:GLN:O	1:J:122:GLY:HA2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:552:LEU:HD13	1:H:556:TYR:HE2	1.86	0.40
1:D:65:ARG:O	1:D:69:SER:HB2	2.21	0.40
1:K:370:PRO:HB2	1:K:371:TYR:CE1	2.57	0.40
1:F:370:PRO:HB2	1:F:371:TYR:CE1	2.57	0.40
1:I:231:THR:O	1:I:249:ARG:HB3	2.21	0.40
1:K:147:GLU:HA	1:K:148:PRO:HD3	1.83	0.40
1:B:352:TRP:CD1	1:C:374:LEU:O	2.73	0.40
1:D:126:TRP:C	1:D:126:TRP:CD1	2.94	0.40
1:F:171:ARG:HH21	1:G:182:ASN:ND2	2.19	0.40
1:G:175:VAL:O	1:G:220:ALA:HB1	2.21	0.40
1:G:408:ALA:O	1:G:412:VAL:HG23	2.21	0.40
1:H:408:ALA:O	1:H:412:VAL:HG23	2.22	0.40
1:L:186:ASP:O	1:L:190:LYS:HG2	2.22	0.40
1:A:171:ARG:HH21	1:B:182:ASN:HD22	1.69	0.40
1:E:573:ASN:O	1:E:574:LYS:C	2.60	0.40
1:E:60:VAL:O	1:E:61:ARG:C	2.59	0.40
1:B:60:VAL:O	1:B:61:ARG:C	2.60	0.40
1:D:82:PRO:HB2	1:D:83:LYS:H	1.63	0.40
1:H:92:ASP:N	1:H:92:ASP:OD2	2.55	0.40
1:A:546:THR:O	1:A:547:PRO:C	2.59	0.40
1:G:434:THR:HA	1:G:437:GLN:NE2	2.36	0.40
1:A:552:LEU:CD1	1:A:556:TYR:HE2	2.34	0.40
1:H:546:THR:O	1:H:547:PRO:C	2.59	0.40
1:A:263:PHE:O	1:A:264:ILE:O	2.39	0.40
1:J:15:PHE:CE1	1:J:283:CYS:HA	2.57	0.40
1:D:550:GLN:O	1:D:551:LEU:C	2.60	0.40
1:J:41:TRP:CZ3	1:J:44:TRP:O	2.74	0.40
1:L:35:PHE:O	1:L:37:ARG:N	2.54	0.40
1:L:37:ARG:NH2	1:L:41:TRP:CZ3	2.89	0.40
1:D:37:ARG:NH2	1:D:41:TRP:CZ3	2.89	0.40
1:A:37:ARG:NH2	1:A:41:TRP:CZ3	2.89	0.40
1:A:209:PHE:CE2	1:A:214:GLN:HG2	2.56	0.40
1:F:208:VAL:HB	1:F:211:TRP:CZ2	2.56	0.40
1:E:48:TYR:CZ	1:E:210:PRO:HG2	2.56	0.40
1:I:209:PHE:CE2	1:I:214:GLN:HG2	2.56	0.40
1:E:413:LYS:HB3	1:E:413:LYS:HE2	1.88	0.40
1:L:66:LYS:HZ3	1:L:420:VAL:CG1	2.35	0.40
1:I:434:THR:HA	1:I:437:GLN:NE2	2.36	0.40
1:D:158:TRP:HB3	1:D:173:CYS:H	1.87	0.40
1:I:158:TRP:HB3	1:I:173:CYS:H	1.87	0.40
1:B:370:PRO:HB2	1:B:371:TYR:CE1	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:420:VAL:HA	1:I:428:GLY:HA3	2.02	0.40
1:F:404:MET:SD	1:G:337:ASN:CB	3.09	0.40
1:G:552:LEU:HD13	1:G:556:TYR:HE2	1.86	0.40
1:F:552:LEU:HD13	1:F:556:TYR:HE2	1.86	0.40
1:L:166:ASP:OD1	1:L:168:SER:CB	2.68	0.40
1:I:370:PRO:HB2	1:I:371:TYR:CE1	2.57	0.40
1:J:350:PHE:HZ	1:J:392:TYR:HD2	1.70	0.40
1:D:541:LYS:HE2	1:D:541:LYS:HB2	1.79	0.40
1:A:722:GLU:O	1:A:723:THR:C	2.60	0.40
1:A:175:VAL:O	1:A:220:ALA:HB1	2.21	0.40
1:G:573:ASN:O	1:G:574:LYS:C	2.60	0.40
1:G:335:SER:O	1:G:338:ALA:HB3	2.21	0.40
1:C:186:ASP:O	1:C:190:LYS:HG2	2.22	0.40
1:C:408:ALA:O	1:C:412:VAL:HG23	2.21	0.40
1:H:335:SER:O	1:H:338:ALA:HB3	2.21	0.40
1:A:642:GLN:O	1:A:646:ASN:CB	2.69	0.40
1:D:92:ASP:OD2	1:D:92:ASP:N	2.55	0.40
1:F:78:VAL:CG2	1:F:444:LEU:HD21	2.52	0.40
1:L:437:GLN:HA	1:L:440:MET:HB2	2.04	0.40
1:E:550:GLN:O	1:E:551:LEU:C	2.60	0.40
1:G:437:GLN:HA	1:G:440:MET:HB2	2.04	0.40
1:I:238:PRO:HG2	1:I:239:VAL:HG23	2.04	0.40
1:B:295:GLY:HA2	1:B:453:LEU:CD2	2.51	0.40
1:L:263:PHE:O	1:L:264:ILE:C	2.59	0.40
1:L:263:PHE:O	1:L:264:ILE:O	2.39	0.40
1:D:248:LYS:CG	1:D:511:ARG:NH1	2.83	0.40
1:L:248:LYS:CE	1:L:513:ARG:HH12	2.35	0.40
1:E:92:ASP:OD2	1:E:92:ASP:N	2.55	0.40
1:I:31:ASN:HB3	1:I:35:PHE:CZ	2.57	0.40
1:K:31:ASN:HB3	1:K:35:PHE:CZ	2.57	0.40
1:A:208:VAL:HB	1:A:211:TRP:CZ2	2.56	0.40
1:F:48:TYR:CZ	1:F:210:PRO:HG2	2.56	0.40
1:K:422:THR:HG22	1:K:425:VAL:CG2	2.51	0.40
1:I:48:TYR:CZ	1:I:210:PRO:HG2	2.56	0.40
1:I:586:THR:C	1:I:588:GLU:H	2.23	0.40
1:G:422:THR:HG22	1:G:425:VAL:CG2	2.51	0.40
1:G:429:GLN:OE1	1:G:429:GLN:N	2.55	0.40
1:I:429:GLN:OE1	1:I:429:GLN:N	2.55	0.40
1:B:422:THR:HG22	1:B:425:VAL:CG2	2.51	0.40
1:B:423:GLU:O	1:B:424:ALA:HB3	2.21	0.40
1:G:99:ARG:HH12	1:G:530:GLN:HE21	1.68	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:552:LEU:CD1	1:H:556:TYR:HE2	2.34	0.40
1:B:552:LEU:CD1	1:B:556:TYR:HE2	2.34	0.40
1:J:231:THR:O	1:J:249:ARG:CB	2.69	0.40
1:J:231:THR:O	1:J:249:ARG:HB3	2.21	0.40
1:I:369:TYR:HA	1:I:370:PRO:HD3	1.75	0.40
1:H:231:THR:O	1:H:249:ARG:CB	2.69	0.40
1:E:230:GLU:HG3	1:E:231:THR:H	1.84	0.40
1:G:65:ARG:O	1:G:69:SER:HB2	2.21	0.40
1:A:231:THR:O	1:A:249:ARG:CB	2.69	0.40
1:G:390:ALA:HB1	1:H:387:GLN:HB2	2.04	0.40
1:C:126:TRP:CD1	1:C:126:TRP:C	2.94	0.40
1:J:186:ASP:O	1:J:190:LYS:HG2	2.22	0.40
1:J:642:GLN:O	1:J:646:ASN:CB	2.70	0.40
1:K:186:ASP:O	1:K:190:LYS:HG2	2.22	0.40
1:D:408:ALA:O	1:D:412:VAL:HG23	2.21	0.40
1:I:335:SER:O	1:I:338:ALA:HB3	2.21	0.40

All (12) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:49:THR:O	1:J:684:ARG:O[8_554]	1.56	0.64
1:A:49:THR:O	1:E:684:ARG:O[3_555]	1.86	0.34
1:A:48:TYR:O	1:E:687:ALA:CB[3_555]	1.89	0.31
1:H:49:THR:OG1	1:J:687:ALA:CB[8_554]	1.93	0.27
1:A:49:THR:CB	1:E:687:ALA:CB[3_555]	1.94	0.26
1:A:48:TYR:C	1:E:687:ALA:CB[3_555]	2.00	0.20
1:A:209:PHE:CD2	1:F:691:LEU:CB[3_555]	2.02	0.18
1:A:49:THR:CG2	1:E:683:ALA:O[3_555]	2.09	0.11
1:A:48:TYR:O	1:E:687:ALA:C[3_555]	2.13	0.07
1:A:49:THR:OG1	1:E:687:ALA:CB[3_555]	2.14	0.06
1:A:51:LEU:CD2	1:E:681:GLU:O[3_555]	2.16	0.04
1:H:48:TYR:O	1:J:688:GLU:N[8_554]	2.18	0.02

## 5.3 Torsion angles ⓘ

### 5.3.1 Protein backbone ⓘ

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

of similar resolution.

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	688/725 (95%)	507 (74%)	122 (18%)	59 (9%)	1	17
1	B	688/725 (95%)	507 (74%)	122 (18%)	59 (9%)	1	17
1	C	688/725 (95%)	508 (74%)	121 (18%)	59 (9%)	1	17
1	D	688/725 (95%)	506 (74%)	123 (18%)	59 (9%)	1	17
1	E	688/725 (95%)	507 (74%)	122 (18%)	59 (9%)	1	17
1	F	688/725 (95%)	507 (74%)	122 (18%)	59 (9%)	1	17
1	G	688/725 (95%)	507 (74%)	122 (18%)	59 (9%)	1	17
1	H	688/725 (95%)	506 (74%)	123 (18%)	59 (9%)	1	17
1	I	688/725 (95%)	507 (74%)	122 (18%)	59 (9%)	1	17
1	J	688/725 (95%)	507 (74%)	122 (18%)	59 (9%)	1	17
1	K	688/725 (95%)	508 (74%)	121 (18%)	59 (9%)	1	17
1	L	688/725 (95%)	507 (74%)	122 (18%)	59 (9%)	1	17
All	All	8256/8700 (95%)	6084 (74%)	1464 (18%)	708 (9%)	1	17

All (708) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	41	TRP
1	A	82	PRO
1	A	208	VAL
1	A	256	ASP
1	A	263	PHE
1	A	294	ALA
1	A	380	ASN
1	A	504	LYS
1	A	561	ASP
1	A	586	THR
1	A	588	GLU
1	A	724	PRO
1	B	41	TRP
1	B	82	PRO
1	B	208	VAL
1	B	256	ASP
1	B	263	PHE
1	B	294	ALA

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Mol	Chain	Res	Type
1	B	380	ASN
1	B	504	LYS
1	B	561	ASP
1	B	586	THR
1	B	588	GLU
1	B	724	PRO
1	C	41	TRP
1	C	82	PRO
1	C	208	VAL
1	C	256	ASP
1	C	263	PHE
1	C	294	ALA
1	C	380	ASN
1	C	504	LYS
1	C	561	ASP
1	C	586	THR
1	C	588	GLU
1	C	724	PRO
1	D	41	TRP
1	D	82	PRO
1	D	208	VAL
1	D	256	ASP
1	D	263	PHE
1	D	294	ALA
1	D	380	ASN
1	D	504	LYS
1	D	561	ASP
1	D	586	THR
1	D	588	GLU
1	D	724	PRO
1	E	41	TRP
1	E	82	PRO
1	E	208	VAL
1	E	256	ASP
1	E	263	PHE
1	E	294	ALA
1	E	380	ASN
1	E	504	LYS
1	E	561	ASP
1	E	586	THR
1	E	588	GLU
1	E	724	PRO

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Mol	Chain	Res	Type
1	F	41	TRP
1	F	82	PRO
1	F	208	VAL
1	F	256	ASP
1	F	263	PHE
1	F	294	ALA
1	F	380	ASN
1	F	504	LYS
1	F	561	ASP
1	F	586	THR
1	F	588	GLU
1	F	724	PRO
1	G	41	TRP
1	G	82	PRO
1	G	208	VAL
1	G	256	ASP
1	G	263	PHE
1	G	294	ALA
1	G	380	ASN
1	G	504	LYS
1	G	561	ASP
1	G	586	THR
1	G	588	GLU
1	G	724	PRO
1	H	41	TRP
1	H	82	PRO
1	H	208	VAL
1	H	256	ASP
1	H	263	PHE
1	H	294	ALA
1	H	380	ASN
1	H	504	LYS
1	H	561	ASP
1	H	586	THR
1	H	588	GLU
1	H	724	PRO
1	I	41	TRP
1	I	82	PRO
1	I	208	VAL
1	I	256	ASP
1	I	263	PHE
1	I	294	ALA

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Mol	Chain	Res	Type
1	I	380	ASN
1	I	504	LYS
1	I	561	ASP
1	I	586	THR
1	I	588	GLU
1	I	724	PRO
1	J	41	TRP
1	J	82	PRO
1	J	208	VAL
1	J	256	ASP
1	J	263	PHE
1	J	294	ALA
1	J	380	ASN
1	J	504	LYS
1	J	561	ASP
1	J	586	THR
1	J	588	GLU
1	J	724	PRO
1	K	41	TRP
1	K	82	PRO
1	K	208	VAL
1	K	256	ASP
1	K	263	PHE
1	K	294	ALA
1	K	380	ASN
1	K	504	LYS
1	K	561	ASP
1	K	586	THR
1	K	588	GLU
1	K	724	PRO
1	L	41	TRP
1	L	82	PRO
1	L	208	VAL
1	L	256	ASP
1	L	263	PHE
1	L	294	ALA
1	L	380	ASN
1	L	504	LYS
1	L	561	ASP
1	L	586	THR
1	L	588	GLU
1	L	724	PRO

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Mol	Chain	Res	Type
1	A	50	THR
1	A	159	ASP
1	A	233	PHE
1	A	244	VAL
1	A	264	ILE
1	A	267	ALA
1	A	274	ARG
1	A	295	GLY
1	A	387	GLN
1	A	388	PRO
1	A	459	ARG
1	A	498	ASP
1	A	514	TYR
1	A	595	GLU
1	A	693	GLY
1	A	700	GLN
1	B	50	THR
1	B	159	ASP
1	B	233	PHE
1	B	244	VAL
1	B	264	ILE
1	B	267	ALA
1	B	274	ARG
1	B	295	GLY
1	B	387	GLN
1	B	388	PRO
1	B	459	ARG
1	B	498	ASP
1	B	514	TYR
1	B	595	GLU
1	B	693	GLY
1	B	700	GLN
1	C	50	THR
1	C	159	ASP
1	C	233	PHE
1	C	244	VAL
1	C	264	ILE
1	C	267	ALA
1	C	274	ARG
1	C	295	GLY
1	C	387	GLN
1	C	388	PRO

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Mol	Chain	Res	Type
1	C	459	ARG
1	C	498	ASP
1	C	514	TYR
1	C	595	GLU
1	C	693	GLY
1	C	700	GLN
1	D	50	THR
1	D	159	ASP
1	D	233	PHE
1	D	244	VAL
1	D	264	ILE
1	D	267	ALA
1	D	274	ARG
1	D	295	GLY
1	D	387	GLN
1	D	388	PRO
1	D	459	ARG
1	D	498	ASP
1	D	514	TYR
1	D	595	GLU
1	D	693	GLY
1	D	700	GLN
1	E	50	THR
1	E	159	ASP
1	E	233	PHE
1	E	244	VAL
1	E	264	ILE
1	E	267	ALA
1	E	274	ARG
1	E	295	GLY
1	E	387	GLN
1	E	388	PRO
1	E	459	ARG
1	E	498	ASP
1	E	514	TYR
1	E	595	GLU
1	E	693	GLY
1	E	700	GLN
1	F	50	THR
1	F	159	ASP
1	F	233	PHE
1	F	244	VAL

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Mol	Chain	Res	Type
1	F	264	ILE
1	F	267	ALA
1	F	274	ARG
1	F	295	GLY
1	F	387	GLN
1	F	388	PRO
1	F	459	ARG
1	F	498	ASP
1	F	514	TYR
1	F	595	GLU
1	F	693	GLY
1	F	700	GLN
1	G	50	THR
1	G	159	ASP
1	G	233	PHE
1	G	244	VAL
1	G	264	ILE
1	G	267	ALA
1	G	274	ARG
1	G	295	GLY
1	G	387	GLN
1	G	388	PRO
1	G	459	ARG
1	G	498	ASP
1	G	514	TYR
1	G	595	GLU
1	G	693	GLY
1	G	700	GLN
1	H	50	THR
1	H	159	ASP
1	H	233	PHE
1	H	244	VAL
1	H	264	ILE
1	H	267	ALA
1	H	274	ARG
1	H	295	GLY
1	H	387	GLN
1	H	388	PRO
1	H	459	ARG
1	H	498	ASP
1	H	514	TYR
1	H	595	GLU

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Mol	Chain	Res	Type
1	H	693	GLY
1	H	700	GLN
1	I	50	THR
1	I	159	ASP
1	I	233	PHE
1	I	244	VAL
1	I	264	ILE
1	I	267	ALA
1	I	274	ARG
1	I	295	GLY
1	I	387	GLN
1	I	388	PRO
1	I	459	ARG
1	I	498	ASP
1	I	514	TYR
1	I	595	GLU
1	I	693	GLY
1	I	700	GLN
1	J	50	THR
1	J	159	ASP
1	J	233	PHE
1	J	244	VAL
1	J	264	ILE
1	J	267	ALA
1	J	274	ARG
1	J	295	GLY
1	J	387	GLN
1	J	388	PRO
1	J	459	ARG
1	J	498	ASP
1	J	514	TYR
1	J	595	GLU
1	J	693	GLY
1	J	700	GLN
1	K	50	THR
1	K	159	ASP
1	K	233	PHE
1	K	244	VAL
1	K	264	ILE
1	K	267	ALA
1	K	274	ARG
1	K	295	GLY

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Mol	Chain	Res	Type
1	K	387	GLN
1	K	388	PRO
1	K	459	ARG
1	K	498	ASP
1	K	514	TYR
1	K	595	GLU
1	K	693	GLY
1	K	700	GLN
1	L	50	THR
1	L	159	ASP
1	L	233	PHE
1	L	244	VAL
1	L	264	ILE
1	L	267	ALA
1	L	274	ARG
1	L	295	GLY
1	L	387	GLN
1	L	388	PRO
1	L	459	ARG
1	L	498	ASP
1	L	514	TYR
1	L	595	GLU
1	L	693	GLY
1	L	700	GLN
1	A	93	VAL
1	A	205	ASN
1	A	216	THR
1	A	253	ASP
1	A	262	GLY
1	A	330	ARG
1	A	591	GLN
1	A	594	VAL
1	A	701	ARG
1	A	705	ALA
1	B	93	VAL
1	B	205	ASN
1	B	216	THR
1	B	253	ASP
1	B	262	GLY
1	B	330	ARG
1	B	591	GLN
1	B	594	VAL

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Mol	Chain	Res	Type
1	B	701	ARG
1	B	705	ALA
1	C	93	VAL
1	C	205	ASN
1	C	216	THR
1	C	253	ASP
1	C	262	GLY
1	C	330	ARG
1	C	591	GLN
1	C	594	VAL
1	C	701	ARG
1	C	705	ALA
1	D	93	VAL
1	D	205	ASN
1	D	216	THR
1	D	253	ASP
1	D	262	GLY
1	D	330	ARG
1	D	591	GLN
1	D	594	VAL
1	D	701	ARG
1	D	705	ALA
1	E	93	VAL
1	E	205	ASN
1	E	216	THR
1	E	253	ASP
1	E	262	GLY
1	E	330	ARG
1	E	591	GLN
1	E	594	VAL
1	E	701	ARG
1	E	705	ALA
1	F	93	VAL
1	F	205	ASN
1	F	216	THR
1	F	253	ASP
1	F	262	GLY
1	F	330	ARG
1	F	591	GLN
1	F	594	VAL
1	F	701	ARG
1	F	705	ALA

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Mol	Chain	Res	Type
1	G	93	VAL
1	G	205	ASN
1	G	216	THR
1	G	253	ASP
1	G	262	GLY
1	G	330	ARG
1	G	591	GLN
1	G	594	VAL
1	G	701	ARG
1	G	705	ALA
1	H	93	VAL
1	H	205	ASN
1	H	216	THR
1	H	253	ASP
1	H	262	GLY
1	H	330	ARG
1	H	591	GLN
1	H	594	VAL
1	H	701	ARG
1	H	705	ALA
1	I	93	VAL
1	I	205	ASN
1	I	216	THR
1	I	253	ASP
1	I	262	GLY
1	I	330	ARG
1	I	591	GLN
1	I	594	VAL
1	I	701	ARG
1	I	705	ALA
1	J	93	VAL
1	J	205	ASN
1	J	216	THR
1	J	253	ASP
1	J	262	GLY
1	J	330	ARG
1	J	591	GLN
1	J	594	VAL
1	J	701	ARG
1	J	705	ALA
1	K	93	VAL
1	K	205	ASN

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Mol	Chain	Res	Type
1	K	216	THR
1	K	253	ASP
1	K	262	GLY
1	K	330	ARG
1	K	591	GLN
1	K	594	VAL
1	K	701	ARG
1	K	705	ALA
1	L	93	VAL
1	L	205	ASN
1	L	216	THR
1	L	253	ASP
1	L	262	GLY
1	L	330	ARG
1	L	591	GLN
1	L	594	VAL
1	L	701	ARG
1	L	705	ALA
1	A	36	SER
1	A	161	ASN
1	A	198	ILE
1	A	302	PRO
1	A	378	ASP
1	A	381	SER
1	A	668	PHE
1	B	36	SER
1	B	161	ASN
1	B	198	ILE
1	B	302	PRO
1	B	378	ASP
1	B	381	SER
1	B	668	PHE
1	C	36	SER
1	C	161	ASN
1	C	198	ILE
1	C	302	PRO
1	C	378	ASP
1	C	381	SER
1	C	668	PHE
1	D	36	SER
1	D	161	ASN
1	D	198	ILE

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Mol	Chain	Res	Type
1	D	302	PRO
1	D	378	ASP
1	D	381	SER
1	D	668	PHE
1	E	36	SER
1	E	161	ASN
1	E	198	ILE
1	E	302	PRO
1	E	378	ASP
1	E	381	SER
1	E	668	PHE
1	F	36	SER
1	F	161	ASN
1	F	198	ILE
1	F	302	PRO
1	F	378	ASP
1	F	381	SER
1	F	668	PHE
1	G	36	SER
1	G	161	ASN
1	G	198	ILE
1	G	302	PRO
1	G	378	ASP
1	G	381	SER
1	G	668	PHE
1	H	36	SER
1	H	161	ASN
1	H	198	ILE
1	H	302	PRO
1	H	378	ASP
1	H	381	SER
1	H	668	PHE
1	I	36	SER
1	I	161	ASN
1	I	198	ILE
1	I	302	PRO
1	I	378	ASP
1	I	381	SER
1	I	668	PHE
1	J	36	SER
1	J	161	ASN
1	J	198	ILE

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Mol	Chain	Res	Type
1	J	302	PRO
1	J	378	ASP
1	J	381	SER
1	J	668	PHE
1	K	36	SER
1	K	161	ASN
1	K	198	ILE
1	K	302	PRO
1	K	378	ASP
1	K	381	SER
1	K	668	PHE
1	L	36	SER
1	L	161	ASN
1	L	198	ILE
1	L	302	PRO
1	L	378	ASP
1	L	381	SER
1	L	668	PHE
1	A	76	ILE
1	A	203	ASN
1	A	209	PHE
1	A	311	GLU
1	A	397	VAL
1	A	462	GLU
1	A	583	LYS
1	A	604	GLN
1	B	76	ILE
1	B	203	ASN
1	B	209	PHE
1	B	311	GLU
1	B	397	VAL
1	B	462	GLU
1	B	583	LYS
1	B	604	GLN
1	C	76	ILE
1	C	203	ASN
1	C	209	PHE
1	C	311	GLU
1	C	397	VAL
1	C	462	GLU
1	C	583	LYS
1	C	604	GLN

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Mol	Chain	Res	Type
1	D	76	ILE
1	D	203	ASN
1	D	209	PHE
1	D	311	GLU
1	D	397	VAL
1	D	462	GLU
1	D	583	LYS
1	D	604	GLN
1	E	76	ILE
1	E	203	ASN
1	E	209	PHE
1	E	311	GLU
1	E	397	VAL
1	E	462	GLU
1	E	583	LYS
1	E	604	GLN
1	F	76	ILE
1	F	203	ASN
1	F	209	PHE
1	F	311	GLU
1	F	397	VAL
1	F	462	GLU
1	F	583	LYS
1	F	604	GLN
1	G	76	ILE
1	G	203	ASN
1	G	209	PHE
1	G	311	GLU
1	G	397	VAL
1	G	462	GLU
1	G	583	LYS
1	G	604	GLN
1	H	76	ILE
1	H	203	ASN
1	H	209	PHE
1	H	311	GLU
1	H	397	VAL
1	H	462	GLU
1	H	583	LYS
1	H	604	GLN
1	I	76	ILE
1	I	203	ASN

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Mol	Chain	Res	Type
1	I	209	PHE
1	I	311	GLU
1	I	397	VAL
1	I	462	GLU
1	I	583	LYS
1	I	604	GLN
1	J	76	ILE
1	J	203	ASN
1	J	209	PHE
1	J	311	GLU
1	J	397	VAL
1	J	462	GLU
1	J	583	LYS
1	J	604	GLN
1	K	76	ILE
1	K	203	ASN
1	K	209	PHE
1	K	311	GLU
1	K	397	VAL
1	K	462	GLU
1	K	583	LYS
1	K	604	GLN
1	L	76	ILE
1	L	203	ASN
1	L	209	PHE
1	L	311	GLU
1	L	397	VAL
1	L	462	GLU
1	L	583	LYS
1	L	604	GLN
1	A	192	ASP
1	A	383	ASP
1	A	428	GLY
1	B	192	ASP
1	B	383	ASP
1	B	428	GLY
1	C	192	ASP
1	C	383	ASP
1	C	428	GLY
1	D	192	ASP
1	D	383	ASP
1	D	428	GLY

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Mol	Chain	Res	Type
1	E	192	ASP
1	E	383	ASP
1	E	428	GLY
1	F	192	ASP
1	F	383	ASP
1	F	428	GLY
1	G	192	ASP
1	G	383	ASP
1	G	428	GLY
1	H	192	ASP
1	H	383	ASP
1	H	428	GLY
1	I	192	ASP
1	I	383	ASP
1	I	428	GLY
1	J	192	ASP
1	J	383	ASP
1	J	428	GLY
1	K	192	ASP
1	K	383	ASP
1	K	428	GLY
1	L	192	ASP
1	L	383	ASP
1	L	428	GLY
1	A	310	VAL
1	B	310	VAL
1	C	310	VAL
1	D	310	VAL
1	E	310	VAL
1	F	310	VAL
1	G	310	VAL
1	H	310	VAL
1	I	310	VAL
1	J	310	VAL
1	K	310	VAL
1	L	310	VAL
1	A	522	PRO
1	B	522	PRO
1	C	522	PRO
1	D	522	PRO
1	E	522	PRO
1	G	522	PRO

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Mol	Chain	Res	Type
1	I	522	PRO
1	J	522	PRO
1	K	522	PRO
1	L	522	PRO
1	F	522	PRO
1	H	522	PRO
1	A	510	ILE
1	B	510	ILE
1	C	510	ILE
1	D	510	ILE
1	E	510	ILE
1	F	510	ILE
1	G	510	ILE
1	H	510	ILE
1	I	510	ILE
1	J	510	ILE
1	K	510	ILE
1	L	510	ILE

### 5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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	474/630 (75%)	410 (86%)	64 (14%)	5	27
1	B	474/630 (75%)	409 (86%)	65 (14%)	4	27
1	C	474/630 (75%)	410 (86%)	64 (14%)	5	27
1	D	474/630 (75%)	409 (86%)	65 (14%)	4	27
1	E	474/630 (75%)	409 (86%)	65 (14%)	4	27
1	F	474/630 (75%)	409 (86%)	65 (14%)	4	27
1	G	474/630 (75%)	409 (86%)	65 (14%)	4	27
1	H	474/630 (75%)	410 (86%)	64 (14%)	5	27
1	I	474/630 (75%)	410 (86%)	64 (14%)	5	27
1	J	474/630 (75%)	410 (86%)	64 (14%)	5	27

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	K	474/630 (75%)	409 (86%)	65 (14%)	4	27
1	L	474/630 (75%)	410 (86%)	64 (14%)	5	27
All	All	5688/7560 (75%)	4914 (86%)	774 (14%)	5	27

All (774) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	14	ARG
1	A	15	PHE
1	A	24	GLU
1	A	30	LYS
1	A	31	ASN
1	A	33	LEU
1	A	37	ARG
1	A	45	LEU
1	A	56	GLN
1	A	69	SER
1	A	79	LEU
1	A	93	VAL
1	A	101	ASP
1	A	118	GLN
1	A	123	VAL
1	A	127	ARG
1	A	133	GLU
1	A	144	ILE
1	A	157	ILE
1	A	158	TRP
1	A	161	ASN
1	A	164	LEU
1	A	168	SER
1	A	174	THR
1	A	190	LYS
1	A	201	PHE
1	A	202	GLN
1	A	209	PHE
1	A	211	TRP
1	A	218	GLN
1	A	234	ILE
1	A	246	TYR
1	A	248	LYS
1	A	265	LYS

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Mol	Chain	Res	Type
1	A	266	ILE
1	A	273	ARG
1	A	275	ARG
1	A	286	VAL
1	A	293	ILE
1	A	301	VAL
1	A	325	ASP
1	A	327	GLN
1	A	343	ARG
1	A	356	ILE
1	A	359	PHE
1	A	376	ARG
1	A	384	LEU
1	A	387	GLN
1	A	389	LEU
1	A	405	LEU
1	A	421	ASP
1	A	422	THR
1	A	433	ASP
1	A	444	LEU
1	A	511	ARG
1	A	513	ARG
1	A	518	THR
1	A	529	GLN
1	A	541	LYS
1	A	546	THR
1	A	552	LEU
1	A	555	GLN
1	A	558	THR
1	A	588	GLU
1	B	14	ARG
1	B	15	PHE
1	B	24	GLU
1	B	30	LYS
1	B	31	ASN
1	B	33	LEU
1	B	37	ARG
1	B	45	LEU
1	B	56	GLN
1	B	69	SER
1	B	79	LEU
1	B	93	VAL

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Mol	Chain	Res	Type
1	B	101	ASP
1	B	118	GLN
1	B	123	VAL
1	B	127	ARG
1	B	133	GLU
1	B	144	ILE
1	B	157	ILE
1	B	158	TRP
1	B	161	ASN
1	B	164	LEU
1	B	168	SER
1	B	174	THR
1	B	190	LYS
1	B	201	PHE
1	B	202	GLN
1	B	209	PHE
1	B	211	TRP
1	B	218	GLN
1	B	234	ILE
1	B	246	TYR
1	B	248	LYS
1	B	265	LYS
1	B	266	ILE
1	B	273	ARG
1	B	275	ARG
1	B	286	VAL
1	B	293	ILE
1	B	301	VAL
1	B	325	ASP
1	B	327	GLN
1	B	343	ARG
1	B	356	ILE
1	B	359	PHE
1	B	376	ARG
1	B	384	LEU
1	B	387	GLN
1	B	389	LEU
1	B	405	LEU
1	B	421	ASP
1	B	422	THR
1	B	433	ASP
1	B	444	LEU

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Mol	Chain	Res	Type
1	B	449	PHE
1	B	511	ARG
1	B	513	ARG
1	B	518	THR
1	B	529	GLN
1	B	541	LYS
1	B	546	THR
1	B	552	LEU
1	B	555	GLN
1	B	558	THR
1	B	588	GLU
1	C	14	ARG
1	C	15	PHE
1	C	24	GLU
1	C	30	LYS
1	C	31	ASN
1	C	33	LEU
1	C	37	ARG
1	C	45	LEU
1	C	56	GLN
1	C	69	SER
1	C	79	LEU
1	C	93	VAL
1	C	101	ASP
1	C	118	GLN
1	C	123	VAL
1	C	127	ARG
1	C	133	GLU
1	C	144	ILE
1	C	157	ILE
1	C	158	TRP
1	C	161	ASN
1	C	164	LEU
1	C	168	SER
1	C	174	THR
1	C	190	LYS
1	C	201	PHE
1	C	202	GLN
1	C	209	PHE
1	C	211	TRP
1	C	218	GLN
1	C	234	ILE

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Mol	Chain	Res	Type
1	C	246	TYR
1	C	248	LYS
1	C	265	LYS
1	C	266	ILE
1	C	273	ARG
1	C	275	ARG
1	C	286	VAL
1	C	293	ILE
1	C	301	VAL
1	C	325	ASP
1	C	327	GLN
1	C	343	ARG
1	C	356	ILE
1	C	359	PHE
1	C	376	ARG
1	C	384	LEU
1	C	387	GLN
1	C	389	LEU
1	C	405	LEU
1	C	421	ASP
1	C	422	THR
1	C	433	ASP
1	C	444	LEU
1	C	511	ARG
1	C	513	ARG
1	C	518	THR
1	C	529	GLN
1	C	541	LYS
1	C	546	THR
1	C	552	LEU
1	C	555	GLN
1	C	558	THR
1	C	588	GLU
1	D	14	ARG
1	D	15	PHE
1	D	24	GLU
1	D	30	LYS
1	D	31	ASN
1	D	33	LEU
1	D	37	ARG
1	D	45	LEU
1	D	56	GLN

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Mol	Chain	Res	Type
1	D	69	SER
1	D	79	LEU
1	D	93	VAL
1	D	101	ASP
1	D	118	GLN
1	D	123	VAL
1	D	127	ARG
1	D	133	GLU
1	D	144	ILE
1	D	157	ILE
1	D	158	TRP
1	D	161	ASN
1	D	164	LEU
1	D	168	SER
1	D	174	THR
1	D	190	LYS
1	D	201	PHE
1	D	202	GLN
1	D	209	PHE
1	D	211	TRP
1	D	218	GLN
1	D	234	ILE
1	D	246	TYR
1	D	248	LYS
1	D	265	LYS
1	D	266	ILE
1	D	273	ARG
1	D	275	ARG
1	D	286	VAL
1	D	293	ILE
1	D	301	VAL
1	D	325	ASP
1	D	327	GLN
1	D	343	ARG
1	D	356	ILE
1	D	359	PHE
1	D	376	ARG
1	D	384	LEU
1	D	387	GLN
1	D	389	LEU
1	D	405	LEU
1	D	421	ASP

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Mol	Chain	Res	Type
1	D	422	THR
1	D	433	ASP
1	D	444	LEU
1	D	449	PHE
1	D	511	ARG
1	D	513	ARG
1	D	518	THR
1	D	529	GLN
1	D	541	LYS
1	D	546	THR
1	D	552	LEU
1	D	555	GLN
1	D	558	THR
1	D	588	GLU
1	E	14	ARG
1	E	15	PHE
1	E	24	GLU
1	E	30	LYS
1	E	31	ASN
1	E	33	LEU
1	E	37	ARG
1	E	45	LEU
1	E	56	GLN
1	E	69	SER
1	E	79	LEU
1	E	93	VAL
1	E	101	ASP
1	E	118	GLN
1	E	123	VAL
1	E	127	ARG
1	E	133	GLU
1	E	144	ILE
1	E	157	ILE
1	E	158	TRP
1	E	161	ASN
1	E	164	LEU
1	E	168	SER
1	E	174	THR
1	E	190	LYS
1	E	201	PHE
1	E	202	GLN
1	E	209	PHE

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Mol	Chain	Res	Type
1	E	211	TRP
1	E	218	GLN
1	E	234	ILE
1	E	246	TYR
1	E	248	LYS
1	E	265	LYS
1	E	266	ILE
1	E	273	ARG
1	E	275	ARG
1	E	286	VAL
1	E	293	ILE
1	E	301	VAL
1	E	325	ASP
1	E	327	GLN
1	E	343	ARG
1	E	356	ILE
1	E	359	PHE
1	E	376	ARG
1	E	384	LEU
1	E	387	GLN
1	E	389	LEU
1	E	405	LEU
1	E	421	ASP
1	E	422	THR
1	E	433	ASP
1	E	444	LEU
1	E	511	ARG
1	E	513	ARG
1	E	518	THR
1	E	520	VAL
1	E	529	GLN
1	E	541	LYS
1	E	546	THR
1	E	552	LEU
1	E	555	GLN
1	E	558	THR
1	E	588	GLU
1	F	14	ARG
1	F	15	PHE
1	F	24	GLU
1	F	30	LYS
1	F	31	ASN

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Mol	Chain	Res	Type
1	F	33	LEU
1	F	37	ARG
1	F	45	LEU
1	F	56	GLN
1	F	69	SER
1	F	79	LEU
1	F	93	VAL
1	F	101	ASP
1	F	118	GLN
1	F	123	VAL
1	F	127	ARG
1	F	133	GLU
1	F	144	ILE
1	F	157	ILE
1	F	158	TRP
1	F	161	ASN
1	F	164	LEU
1	F	168	SER
1	F	174	THR
1	F	190	LYS
1	F	201	PHE
1	F	202	GLN
1	F	209	PHE
1	F	211	TRP
1	F	218	GLN
1	F	234	ILE
1	F	246	TYR
1	F	248	LYS
1	F	265	LYS
1	F	266	ILE
1	F	273	ARG
1	F	275	ARG
1	F	286	VAL
1	F	293	ILE
1	F	301	VAL
1	F	325	ASP
1	F	327	GLN
1	F	343	ARG
1	F	356	ILE
1	F	359	PHE
1	F	376	ARG
1	F	384	LEU

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Mol	Chain	Res	Type
1	F	387	GLN
1	F	389	LEU
1	F	405	LEU
1	F	421	ASP
1	F	422	THR
1	F	433	ASP
1	F	444	LEU
1	F	511	ARG
1	F	513	ARG
1	F	518	THR
1	F	520	VAL
1	F	529	GLN
1	F	541	LYS
1	F	546	THR
1	F	552	LEU
1	F	555	GLN
1	F	558	THR
1	F	588	GLU
1	G	14	ARG
1	G	15	PHE
1	G	24	GLU
1	G	30	LYS
1	G	31	ASN
1	G	33	LEU
1	G	37	ARG
1	G	45	LEU
1	G	56	GLN
1	G	69	SER
1	G	79	LEU
1	G	93	VAL
1	G	101	ASP
1	G	118	GLN
1	G	123	VAL
1	G	127	ARG
1	G	133	GLU
1	G	144	ILE
1	G	157	ILE
1	G	158	TRP
1	G	161	ASN
1	G	164	LEU
1	G	168	SER
1	G	174	THR

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Mol	Chain	Res	Type
1	G	190	LYS
1	G	201	PHE
1	G	202	GLN
1	G	209	PHE
1	G	211	TRP
1	G	218	GLN
1	G	234	ILE
1	G	246	TYR
1	G	248	LYS
1	G	265	LYS
1	G	266	ILE
1	G	273	ARG
1	G	275	ARG
1	G	286	VAL
1	G	293	ILE
1	G	301	VAL
1	G	325	ASP
1	G	327	GLN
1	G	343	ARG
1	G	356	ILE
1	G	359	PHE
1	G	376	ARG
1	G	384	LEU
1	G	387	GLN
1	G	389	LEU
1	G	405	LEU
1	G	421	ASP
1	G	422	THR
1	G	433	ASP
1	G	444	LEU
1	G	511	ARG
1	G	513	ARG
1	G	518	THR
1	G	520	VAL
1	G	529	GLN
1	G	541	LYS
1	G	546	THR
1	G	552	LEU
1	G	555	GLN
1	G	558	THR
1	G	588	GLU
1	H	14	ARG

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Mol	Chain	Res	Type
1	H	15	PHE
1	H	24	GLU
1	H	30	LYS
1	H	31	ASN
1	H	33	LEU
1	H	37	ARG
1	H	45	LEU
1	H	56	GLN
1	H	69	SER
1	H	79	LEU
1	H	93	VAL
1	H	101	ASP
1	H	118	GLN
1	H	123	VAL
1	H	127	ARG
1	H	133	GLU
1	H	144	ILE
1	H	157	ILE
1	H	158	TRP
1	H	161	ASN
1	H	164	LEU
1	H	168	SER
1	H	174	THR
1	H	190	LYS
1	H	201	PHE
1	H	202	GLN
1	H	209	PHE
1	H	211	TRP
1	H	218	GLN
1	H	234	ILE
1	H	246	TYR
1	H	248	LYS
1	H	265	LYS
1	H	266	ILE
1	H	273	ARG
1	H	275	ARG
1	H	286	VAL
1	H	293	ILE
1	H	301	VAL
1	H	325	ASP
1	H	327	GLN
1	H	343	ARG

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Mol	Chain	Res	Type
1	H	356	ILE
1	H	359	PHE
1	H	376	ARG
1	H	384	LEU
1	H	387	GLN
1	H	389	LEU
1	H	405	LEU
1	H	421	ASP
1	H	422	THR
1	H	433	ASP
1	H	444	LEU
1	H	511	ARG
1	H	513	ARG
1	H	518	THR
1	H	529	GLN
1	H	541	LYS
1	H	546	THR
1	H	552	LEU
1	H	555	GLN
1	H	558	THR
1	H	588	GLU
1	I	14	ARG
1	I	15	PHE
1	I	24	GLU
1	I	30	LYS
1	I	31	ASN
1	I	33	LEU
1	I	37	ARG
1	I	45	LEU
1	I	56	GLN
1	I	69	SER
1	I	79	LEU
1	I	93	VAL
1	I	101	ASP
1	I	118	GLN
1	I	123	VAL
1	I	127	ARG
1	I	133	GLU
1	I	144	ILE
1	I	157	ILE
1	I	158	TRP
1	I	161	ASN

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Mol	Chain	Res	Type
1	I	164	LEU
1	I	168	SER
1	I	174	THR
1	I	190	LYS
1	I	201	PHE
1	I	202	GLN
1	I	209	PHE
1	I	211	TRP
1	I	218	GLN
1	I	234	ILE
1	I	246	TYR
1	I	248	LYS
1	I	265	LYS
1	I	266	ILE
1	I	273	ARG
1	I	275	ARG
1	I	286	VAL
1	I	293	ILE
1	I	301	VAL
1	I	325	ASP
1	I	327	GLN
1	I	343	ARG
1	I	356	ILE
1	I	359	PHE
1	I	376	ARG
1	I	384	LEU
1	I	387	GLN
1	I	389	LEU
1	I	405	LEU
1	I	421	ASP
1	I	422	THR
1	I	433	ASP
1	I	444	LEU
1	I	511	ARG
1	I	513	ARG
1	I	518	THR
1	I	529	GLN
1	I	541	LYS
1	I	546	THR
1	I	552	LEU
1	I	555	GLN
1	I	558	THR

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Mol	Chain	Res	Type
1	I	588	GLU
1	J	14	ARG
1	J	15	PHE
1	J	24	GLU
1	J	30	LYS
1	J	31	ASN
1	J	33	LEU
1	J	37	ARG
1	J	45	LEU
1	J	56	GLN
1	J	69	SER
1	J	79	LEU
1	J	93	VAL
1	J	101	ASP
1	J	118	GLN
1	J	123	VAL
1	J	127	ARG
1	J	133	GLU
1	J	144	ILE
1	J	157	ILE
1	J	158	TRP
1	J	161	ASN
1	J	164	LEU
1	J	168	SER
1	J	174	THR
1	J	190	LYS
1	J	201	PHE
1	J	202	GLN
1	J	209	PHE
1	J	211	TRP
1	J	218	GLN
1	J	234	ILE
1	J	246	TYR
1	J	248	LYS
1	J	265	LYS
1	J	266	ILE
1	J	273	ARG
1	J	275	ARG
1	J	286	VAL
1	J	293	ILE
1	J	301	VAL
1	J	325	ASP

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Mol	Chain	Res	Type
1	J	327	GLN
1	J	343	ARG
1	J	356	ILE
1	J	359	PHE
1	J	376	ARG
1	J	384	LEU
1	J	387	GLN
1	J	389	LEU
1	J	405	LEU
1	J	421	ASP
1	J	422	THR
1	J	433	ASP
1	J	444	LEU
1	J	511	ARG
1	J	513	ARG
1	J	518	THR
1	J	529	GLN
1	J	541	LYS
1	J	546	THR
1	J	552	LEU
1	J	555	GLN
1	J	558	THR
1	J	588	GLU
1	K	14	ARG
1	K	15	PHE
1	K	24	GLU
1	K	30	LYS
1	K	31	ASN
1	K	33	LEU
1	K	37	ARG
1	K	45	LEU
1	K	56	GLN
1	K	69	SER
1	K	79	LEU
1	K	93	VAL
1	K	101	ASP
1	K	118	GLN
1	K	123	VAL
1	K	127	ARG
1	K	133	GLU
1	K	144	ILE
1	K	157	ILE

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Mol	Chain	Res	Type
1	K	158	TRP
1	K	161	ASN
1	K	164	LEU
1	K	168	SER
1	K	174	THR
1	K	190	LYS
1	K	201	PHE
1	K	202	GLN
1	K	209	PHE
1	K	211	TRP
1	K	218	GLN
1	K	234	ILE
1	K	246	TYR
1	K	248	LYS
1	K	265	LYS
1	K	266	ILE
1	K	273	ARG
1	K	275	ARG
1	K	286	VAL
1	K	293	ILE
1	K	301	VAL
1	K	325	ASP
1	K	327	GLN
1	K	343	ARG
1	K	356	ILE
1	K	359	PHE
1	K	376	ARG
1	K	384	LEU
1	K	387	GLN
1	K	389	LEU
1	K	405	LEU
1	K	421	ASP
1	K	422	THR
1	K	433	ASP
1	K	444	LEU
1	K	511	ARG
1	K	513	ARG
1	K	518	THR
1	K	520	VAL
1	K	529	GLN
1	K	541	LYS
1	K	546	THR

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Mol	Chain	Res	Type
1	K	552	LEU
1	K	555	GLN
1	K	558	THR
1	K	588	GLU
1	L	14	ARG
1	L	15	PHE
1	L	24	GLU
1	L	30	LYS
1	L	31	ASN
1	L	33	LEU
1	L	37	ARG
1	L	45	LEU
1	L	56	GLN
1	L	69	SER
1	L	79	LEU
1	L	93	VAL
1	L	101	ASP
1	L	118	GLN
1	L	123	VAL
1	L	127	ARG
1	L	133	GLU
1	L	144	ILE
1	L	157	ILE
1	L	158	TRP
1	L	161	ASN
1	L	164	LEU
1	L	168	SER
1	L	174	THR
1	L	190	LYS
1	L	201	PHE
1	L	202	GLN
1	L	209	PHE
1	L	211	TRP
1	L	218	GLN
1	L	234	ILE
1	L	246	TYR
1	L	248	LYS
1	L	265	LYS
1	L	266	ILE
1	L	273	ARG
1	L	275	ARG
1	L	286	VAL

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Mol	Chain	Res	Type
1	L	293	ILE
1	L	301	VAL
1	L	325	ASP
1	L	327	GLN
1	L	343	ARG
1	L	356	ILE
1	L	359	PHE
1	L	376	ARG
1	L	384	LEU
1	L	387	GLN
1	L	389	LEU
1	L	405	LEU
1	L	421	ASP
1	L	422	THR
1	L	433	ASP
1	L	444	LEU
1	L	511	ARG
1	L	513	ARG
1	L	518	THR
1	L	529	GLN
1	L	541	LYS
1	L	546	THR
1	L	552	LEU
1	L	555	GLN
1	L	558	THR
1	L	588	GLU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (298) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	31	ASN
1	A	56	GLN
1	A	73	GLN
1	A	118	GLN
1	A	161	ASN
1	A	202	GLN
1	A	214	GLN
1	A	218	GLN
1	A	236	GLN
1	A	291	GLN
1	A	297	HIS
1	A	327	GLN

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Mol	Chain	Res	Type
1	A	331	ASN
1	A	337	ASN
1	A	361	HIS
1	A	366	ASN
1	A	439	ASN
1	A	452	ASN
1	A	529	GLN
1	A	530	GLN
1	A	555	GLN
1	A	573	ASN
1	A	590	GLN
1	B	31	ASN
1	B	56	GLN
1	B	73	GLN
1	B	118	GLN
1	B	135	GLN
1	B	161	ASN
1	B	182	ASN
1	B	202	GLN
1	B	214	GLN
1	B	218	GLN
1	B	236	GLN
1	B	291	GLN
1	B	297	HIS
1	B	327	GLN
1	B	331	ASN
1	B	337	ASN
1	B	361	HIS
1	B	366	ASN
1	B	439	ASN
1	B	452	ASN
1	B	529	GLN
1	B	530	GLN
1	B	555	GLN
1	B	573	ASN
1	B	590	GLN
1	C	31	ASN
1	C	56	GLN
1	C	73	GLN
1	C	118	GLN
1	C	135	GLN
1	C	161	ASN

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Mol	Chain	Res	Type
1	C	182	ASN
1	C	202	GLN
1	C	214	GLN
1	C	218	GLN
1	C	236	GLN
1	C	291	GLN
1	C	297	HIS
1	C	327	GLN
1	C	331	ASN
1	C	337	ASN
1	C	361	HIS
1	C	366	ASN
1	C	439	ASN
1	C	450	GLN
1	C	452	ASN
1	C	529	GLN
1	C	530	GLN
1	C	555	GLN
1	C	573	ASN
1	C	590	GLN
1	D	31	ASN
1	D	56	GLN
1	D	73	GLN
1	D	118	GLN
1	D	135	GLN
1	D	161	ASN
1	D	182	ASN
1	D	202	GLN
1	D	214	GLN
1	D	218	GLN
1	D	236	GLN
1	D	291	GLN
1	D	297	HIS
1	D	327	GLN
1	D	331	ASN
1	D	337	ASN
1	D	361	HIS
1	D	366	ASN
1	D	439	ASN
1	D	450	GLN
1	D	452	ASN
1	D	529	GLN

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Mol	Chain	Res	Type
1	D	530	GLN
1	D	555	GLN
1	D	573	ASN
1	D	590	GLN
1	E	31	ASN
1	E	56	GLN
1	E	73	GLN
1	E	118	GLN
1	E	135	GLN
1	E	161	ASN
1	E	182	ASN
1	E	202	GLN
1	E	214	GLN
1	E	218	GLN
1	E	236	GLN
1	E	291	GLN
1	E	297	HIS
1	E	327	GLN
1	E	331	ASN
1	E	337	ASN
1	E	361	HIS
1	E	366	ASN
1	E	439	ASN
1	E	450	GLN
1	E	452	ASN
1	E	525	GLN
1	E	529	GLN
1	E	530	GLN
1	E	555	GLN
1	E	573	ASN
1	E	590	GLN
1	F	31	ASN
1	F	56	GLN
1	F	73	GLN
1	F	118	GLN
1	F	135	GLN
1	F	161	ASN
1	F	182	ASN
1	F	202	GLN
1	F	214	GLN
1	F	218	GLN
1	F	236	GLN

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Mol	Chain	Res	Type
1	F	291	GLN
1	F	297	HIS
1	F	327	GLN
1	F	331	ASN
1	F	337	ASN
1	F	361	HIS
1	F	366	ASN
1	F	439	ASN
1	F	452	ASN
1	F	529	GLN
1	F	530	GLN
1	F	555	GLN
1	F	573	ASN
1	F	590	GLN
1	G	31	ASN
1	G	56	GLN
1	G	73	GLN
1	G	118	GLN
1	G	135	GLN
1	G	161	ASN
1	G	182	ASN
1	G	202	GLN
1	G	214	GLN
1	G	218	GLN
1	G	236	GLN
1	G	291	GLN
1	G	297	HIS
1	G	327	GLN
1	G	331	ASN
1	G	337	ASN
1	G	439	ASN
1	G	450	GLN
1	G	452	ASN
1	G	529	GLN
1	G	530	GLN
1	G	555	GLN
1	G	573	ASN
1	G	590	GLN
1	H	31	ASN
1	H	56	GLN
1	H	73	GLN
1	H	118	GLN

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Mol	Chain	Res	Type
1	H	135	GLN
1	H	161	ASN
1	H	182	ASN
1	H	202	GLN
1	H	214	GLN
1	H	218	GLN
1	H	236	GLN
1	H	291	GLN
1	H	297	HIS
1	H	327	GLN
1	H	331	ASN
1	H	337	ASN
1	H	439	ASN
1	H	450	GLN
1	H	452	ASN
1	H	529	GLN
1	H	530	GLN
1	H	555	GLN
1	H	573	ASN
1	H	590	GLN
1	I	31	ASN
1	I	56	GLN
1	I	73	GLN
1	I	118	GLN
1	I	135	GLN
1	I	161	ASN
1	I	182	ASN
1	I	202	GLN
1	I	214	GLN
1	I	218	GLN
1	I	236	GLN
1	I	291	GLN
1	I	297	HIS
1	I	327	GLN
1	I	331	ASN
1	I	337	ASN
1	I	361	HIS
1	I	366	ASN
1	I	439	ASN
1	I	450	GLN
1	I	452	ASN
1	I	529	GLN

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Mol	Chain	Res	Type
1	I	530	GLN
1	I	555	GLN
1	I	573	ASN
1	I	590	GLN
1	J	31	ASN
1	J	56	GLN
1	J	73	GLN
1	J	118	GLN
1	J	135	GLN
1	J	161	ASN
1	J	182	ASN
1	J	202	GLN
1	J	214	GLN
1	J	218	GLN
1	J	236	GLN
1	J	291	GLN
1	J	297	HIS
1	J	327	GLN
1	J	331	ASN
1	J	337	ASN
1	J	439	ASN
1	J	450	GLN
1	J	452	ASN
1	J	529	GLN
1	J	530	GLN
1	J	555	GLN
1	J	573	ASN
1	J	590	GLN
1	K	31	ASN
1	K	56	GLN
1	K	73	GLN
1	K	118	GLN
1	K	135	GLN
1	K	161	ASN
1	K	182	ASN
1	K	202	GLN
1	K	214	GLN
1	K	218	GLN
1	K	236	GLN
1	K	291	GLN
1	K	297	HIS
1	K	327	GLN

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Mol	Chain	Res	Type
1	K	331	ASN
1	K	337	ASN
1	K	439	ASN
1	K	452	ASN
1	K	529	GLN
1	K	530	GLN
1	K	555	GLN
1	K	573	ASN
1	K	590	GLN
1	L	31	ASN
1	L	56	GLN
1	L	73	GLN
1	L	118	GLN
1	L	135	GLN
1	L	161	ASN
1	L	182	ASN
1	L	202	GLN
1	L	214	GLN
1	L	218	GLN
1	L	236	GLN
1	L	291	GLN
1	L	297	HIS
1	L	327	GLN
1	L	331	ASN
1	L	337	ASN
1	L	361	HIS
1	L	366	ASN
1	L	439	ASN
1	L	452	ASN
1	L	529	GLN
1	L	530	GLN
1	L	555	GLN
1	L	573	ASN
1	L	590	GLN

### 5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

## 5.5 Carbohydrates [i](#)

There are no carbohydrates 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 Fit of model and data

### 6.1 Protein, DNA and RNA chains

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95<sup>th</sup> percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
1	A	692/725 (95%)	1.19	144 (20%) <b>1</b> <b>7</b>	49, 283, 539, 659	0
1	B	692/725 (95%)	1.29	170 (24%) <b>1</b> <b>5</b>	70, 292, 539, 632	0
1	C	692/725 (95%)	1.35	173 (25%) <b>1</b> <b>5</b>	88, 303, 549, 652	0
1	D	692/725 (95%)	1.37	168 (24%) <b>1</b> <b>6</b>	58, 304, 547, 649	0
1	E	692/725 (95%)	1.47	212 (30%) <b>1</b> <b>5</b>	69, 298, 540, 629	0
1	F	692/725 (95%)	1.43	184 (26%) <b>1</b> <b>5</b>	72, 291, 546, 670	0
1	G	692/725 (95%)	1.26	158 (22%) <b>1</b> <b>6</b>	44, 274, 518, 635	0
1	H	692/725 (95%)	1.04	117 (16%) <b>2</b> <b>8</b>	71, 265, 513, 584	0
1	I	692/725 (95%)	0.96	110 (15%) <b>3</b> <b>8</b>	56, 259, 522, 645	0
1	J	692/725 (95%)	1.14	153 (22%) <b>1</b> <b>6</b>	55, 267, 501, 595	0
1	K	692/725 (95%)	1.22	151 (21%) <b>1</b> <b>6</b>	64, 273, 542, 632	0
1	L	692/725 (95%)	1.29	156 (22%) <b>1</b> <b>6</b>	59, 271, 511, 594	0
All	All	8304/8700 (95%)	1.25	1896 (22%) <b>1</b> <b>6</b>	44, 282, 532, 670	0

All (1896) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	L	722	GLU	19.4
1	F	725	GLN	19.1
1	A	725	GLN	18.3
1	D	724	PRO	18.0
1	D	723	THR	17.8
1	L	723	THR	17.6
1	L	724	PRO	17.2
1	D	725	GLN	17.0
1	F	724	PRO	16.8
1	E	725	GLN	16.1
1	L	721	ALA	16.0

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Mol	Chain	Res	Type	RSRZ
1	C	723	THR	15.3
1	A	724	PRO	13.8
1	L	725	GLN	13.8
1	D	722	GLU	13.3
1	F	723	THR	12.8
1	C	722	GLU	12.6
1	H	385	PRO	12.1
1	E	724	PRO	12.1
1	H	386	THR	12.0
1	G	505	GLN	11.9
1	F	385	PRO	11.8
1	L	719	SER	11.7
1	F	722	GLU	11.4
1	C	721	ALA	11.4
1	E	723	THR	11.3
1	C	724	PRO	11.2
1	H	387	GLN	10.7
1	F	719	SER	10.7
1	F	387	GLN	10.4
1	A	6	ASN	10.4
1	I	386	THR	10.3
1	E	379	GLU	10.3
1	G	725	GLN	10.2
1	A	723	THR	10.1
1	G	721	ALA	10.1
1	J	387	GLN	9.9
1	D	385	PRO	9.5
1	E	380	ASN	9.5
1	G	508	ASN	9.5
1	I	723	THR	9.4
1	F	721	ALA	9.4
1	L	718	GLY	9.2
1	K	386	THR	9.2
1	C	718	GLY	9.2
1	L	720	VAL	9.1
1	I	724	PRO	9.0
1	G	724	PRO	9.0
1	E	345	PRO	9.0
1	I	725	GLN	9.0
1	B	6	ASN	8.9
1	E	387	GLN	8.9
1	I	722	GLU	8.8

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Mol	Chain	Res	Type	RSRZ
1	J	386	THR	8.7
1	D	386	THR	8.7
1	G	503	GLU	8.7
1	K	385	PRO	8.7
1	K	722	GLU	8.6
1	L	387	GLN	8.6
1	K	724	PRO	8.6
1	C	387	GLN	8.6
1	K	354	GLU	8.6
1	A	386	THR	8.5
1	A	387	GLN	8.5
1	E	363	TYR	8.4
1	F	355	GLN	8.4
1	E	722	GLU	8.4
1	K	723	THR	8.4
1	J	725	GLN	8.4
1	C	719	SER	8.3
1	G	720	VAL	8.3
1	F	718	GLY	8.3
1	F	352	TRP	8.3
1	I	388	PRO	8.2
1	G	723	THR	8.2
1	J	388	PRO	8.1
1	B	5	GLU	8.1
1	H	373	LEU	8.1
1	G	722	GLU	8.0
1	E	55	GLY	8.0
1	I	423	GLU	8.0
1	I	719	SER	8.0
1	G	385	PRO	8.0
1	F	351	PHE	7.9
1	I	718	GLY	7.9
1	G	373	LEU	7.9
1	D	345	PRO	7.8
1	E	378	ASP	7.8
1	F	363	TYR	7.8
1	K	351	PHE	7.8
1	G	719	SER	7.7
1	C	720	VAL	7.7
1	G	387	GLN	7.6
1	K	355	GLN	7.6
1	K	387	GLN	7.6

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Mol	Chain	Res	Type	RSRZ
1	E	721	ALA	7.6
1	G	386	THR	7.5
1	I	387	GLN	7.5
1	F	371	TYR	7.5
1	D	721	ALA	7.5
1	B	17	ALA	7.4
1	E	281	ILE	7.3
1	K	363	TYR	7.3
1	B	388	PRO	7.3
1	E	505	GLN	7.3
1	D	384	LEU	7.3
1	A	5	GLU	7.2
1	G	507	LEU	7.2
1	E	388	PRO	7.2
1	G	352	TRP	7.2
1	B	385	PRO	7.2
1	C	717	SER	7.2
1	D	387	GLN	7.2
1	F	372	TYR	7.1
1	K	374	LEU	7.1
1	G	355	GLN	7.1
1	F	388	PRO	7.1
1	C	385	PRO	7.1
1	D	383	ASP	7.0
1	H	725	GLN	7.0
1	K	388	PRO	7.0
1	D	388	PRO	7.0
1	G	351	PHE	7.0
1	F	370	PRO	7.0
1	K	352	TRP	7.0
1	G	374	LEU	7.0
1	K	721	ALA	7.0
1	L	508	ASN	6.9
1	B	422	THR	6.9
1	F	386	THR	6.9
1	A	385	PRO	6.9
1	A	388	PRO	6.9
1	G	363	TYR	6.8
1	L	388	PRO	6.8
1	A	373	LEU	6.8
1	E	344	THR	6.8
1	E	351	PHE	6.8

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Mol	Chain	Res	Type	RSRZ
1	J	724	PRO	6.8
1	C	383	ASP	6.7
1	H	377	THR	6.7
1	H	371	TYR	6.7
1	K	725	GLN	6.6
1	E	288	LYS	6.6
1	G	388	PRO	6.6
1	E	280	ILE	6.6
1	E	386	THR	6.6
1	F	6	ASN	6.6
1	H	388	PRO	6.6
1	I	5	GLU	6.6
1	H	374	LEU	6.6
1	E	5	GLU	6.6
1	F	383	ASP	6.6
1	F	720	VAL	6.5
1	H	724	PRO	6.5
1	F	373	LEU	6.5
1	H	355	GLN	6.5
1	B	252	LYS	6.5
1	L	351	PHE	6.5
1	L	385	PRO	6.5
1	E	372	TYR	6.4
1	C	422	THR	6.4
1	D	252	LYS	6.4
1	I	422	THR	6.4
1	F	350	PHE	6.4
1	A	722	GLU	6.4
1	J	55	GLY	6.4
1	I	385	PRO	6.4
1	D	401	ASN	6.4
1	B	351	PHE	6.4
1	A	363	TYR	6.3
1	C	388	PRO	6.3
1	F	375	ASN	6.3
1	D	378	ASP	6.3
1	C	725	GLN	6.3
1	L	371	TYR	6.3
1	F	345	PRO	6.2
1	A	374	LEU	6.2
1	B	505	GLN	6.2
1	F	377	THR	6.2

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Mol	Chain	Res	Type	RSRZ
1	B	233	PHE	6.2
1	G	718	GLY	6.2
1	A	377	THR	6.1
1	H	372	TYR	6.1
1	A	372	TYR	6.0
1	F	199	PRO	6.0
1	E	371	TYR	6.0
1	F	354	GLU	6.0
1	E	508	ASN	6.0
1	I	383	ASP	6.0
1	E	219	ILE	6.0
1	K	248	LYS	6.0
1	E	352	TRP	6.0
1	C	195	ALA	6.0
1	C	196	ASP	5.9
1	I	721	ALA	5.9
1	C	252	LYS	5.9
1	D	351	PHE	5.9
1	F	376	ARG	5.9
1	G	506	VAL	5.9
1	G	350	PHE	5.9
1	H	383	ASP	5.9
1	H	376	ARG	5.9
1	B	423	GLU	5.9
1	A	686	ASN	5.8
1	H	722	GLU	5.8
1	G	371	TYR	5.8
1	B	723	THR	5.8
1	E	720	VAL	5.8
1	L	373	LEU	5.8
1	B	508	ASN	5.8
1	L	374	LEU	5.8
1	L	386	THR	5.8
1	F	344	THR	5.7
1	G	247	PHE	5.7
1	D	355	GLN	5.7
1	G	372	TYR	5.7
1	L	256	ASP	5.7
1	C	423	GLU	5.7
1	B	387	GLN	5.7
1	C	714	ASN	5.7
1	G	370	PRO	5.7

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Mol	Chain	Res	Type	RSRZ
1	A	248	LYS	5.7
1	E	337	ASN	5.7
1	H	363	TYR	5.7
1	E	6	ASN	5.6
1	E	377	THR	5.6
1	L	345	PRO	5.6
1	A	376	ARG	5.6
1	D	508	ASN	5.6
1	G	235	TYR	5.6
1	F	353	PRO	5.6
1	F	506	VAL	5.6
1	D	377	THR	5.6
1	H	375	ASN	5.6
1	F	384	LEU	5.6
1	J	506	VAL	5.6
1	G	509	ASP	5.6
1	C	15	PHE	5.6
1	E	373	LEU	5.6
1	C	199	PRO	5.6
1	E	287	LEU	5.6
1	E	385	PRO	5.6
1	K	356	ILE	5.6
1	L	376	ARG	5.5
1	A	233	PHE	5.5
1	G	233	PHE	5.5
1	D	256	ASP	5.5
1	E	346	LYS	5.5
1	C	716	PRO	5.5
1	F	508	ASN	5.5
1	D	354	GLU	5.5
1	K	373	LEU	5.5
1	D	233	PHE	5.5
1	F	717	SER	5.5
1	J	385	PRO	5.5
1	H	723	THR	5.5
1	D	506	VAL	5.5
1	G	248	LYS	5.5
1	D	718	GLY	5.5
1	E	14	ARG	5.5
1	F	5	GLU	5.5
1	E	350	PHE	5.5
1	E	18	ASP	5.5

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Mol	Chain	Res	Type	RSRZ
1	L	377	THR	5.4
1	B	14	ARG	5.4
1	B	355	GLN	5.4
1	E	279	SER	5.4
1	L	355	GLN	5.4
1	K	350	PHE	5.4
1	L	233	PHE	5.4
1	A	247	PHE	5.4
1	A	375	ASN	5.4
1	J	351	PHE	5.4
1	E	392	TYR	5.4
1	L	363	TYR	5.4
1	L	260	ASP	5.3
1	K	46	SER	5.3
1	B	260	ASP	5.3
1	A	697	THR	5.3
1	K	375	ASN	5.3
1	A	507	LEU	5.3
1	F	341	VAL	5.3
1	H	351	PHE	5.3
1	E	355	GLN	5.3
1	A	423	GLU	5.3
1	F	7	ARG	5.3
1	A	371	TYR	5.3
1	A	714	ASN	5.3
1	F	505	GLN	5.3
1	E	235	TYR	5.3
1	D	719	SER	5.3
1	L	380	ASN	5.3
1	B	256	ASP	5.3
1	B	7	ARG	5.3
1	E	220	ALA	5.3
1	G	85	GLY	5.3
1	J	345	PRO	5.2
1	H	248	LYS	5.2
1	E	506	VAL	5.2
1	E	348	LYS	5.2
1	F	219	ILE	5.2
1	L	507	LEU	5.2
1	B	725	GLN	5.2
1	F	423	GLU	5.2
1	B	281	ILE	5.2

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Mol	Chain	Res	Type	RSRZ
1	F	349	PRO	5.2
1	G	375	ASN	5.2
1	D	350	PHE	5.2
1	E	199	PRO	5.2
1	G	349	PRO	5.2
1	L	509	ASP	5.2
1	G	376	ARG	5.2
1	C	380	ASN	5.1
1	E	349	PRO	5.1
1	D	392	TYR	5.1
1	I	351	PHE	5.1
1	H	610	GLN	5.1
1	C	378	ASP	5.1
1	B	350	PHE	5.1
1	F	374	LEU	5.1
1	F	507	LEU	5.1
1	E	341	VAL	5.1
1	B	352	TRP	5.0
1	L	352	TRP	5.0
1	B	16	ASP	5.0
1	L	268	GLU	5.0
1	B	247	PHE	5.0
1	K	353	PRO	5.0
1	H	384	LEU	5.0
1	B	264	ILE	5.0
1	H	505	GLN	5.0
1	A	383	ASP	5.0
1	L	717	SER	5.0
1	J	723	THR	4.9
1	A	235	TYR	4.9
1	I	384	LEU	4.9
1	C	6	ASN	4.9
1	E	252	LYS	4.9
1	K	345	PRO	4.9
1	F	281	ILE	4.9
1	C	85	GLY	4.9
1	C	18	ASP	4.9
1	K	85	GLY	4.9
1	E	16	ASP	4.9
1	E	507	LEU	4.9
1	A	245	SER	4.9
1	C	381	SER	4.9

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Mol	Chain	Res	Type	RSRZ
1	H	233	PHE	4.9
1	G	504	LYS	4.9
1	B	722	GLU	4.8
1	J	605	ASP	4.8
1	A	717	SER	4.8
1	G	365	GLY	4.8
1	J	377	THR	4.8
1	J	5	GLU	4.8
1	E	381	SER	4.8
1	I	377	THR	4.8
1	C	5	GLU	4.8
1	L	370	PRO	4.8
1	B	345	PRO	4.8
1	C	421	ASP	4.8
1	K	719	SER	4.8
1	C	248	LYS	4.8
1	L	381	SER	4.8
1	E	362	MET	4.8
1	L	5	GLU	4.8
1	F	245	SER	4.7
1	A	351	PHE	4.7
1	L	49	THR	4.7
1	I	506	VAL	4.7
1	H	370	PRO	4.7
1	K	401	ASN	4.7
1	F	422	THR	4.7
1	L	350	PHE	4.7
1	C	715	GLN	4.7
1	H	508	ASN	4.7
1	D	55	GLY	4.7
1	C	376	ARG	4.7
1	L	232	ALA	4.7
1	B	376	ARG	4.7
1	E	217	ILE	4.7
1	B	245	SER	4.7
1	E	286	VAL	4.7
1	J	6	ASN	4.7
1	G	260	ASP	4.7
1	G	392	TYR	4.7
1	F	348	LYS	4.6
1	B	248	LYS	4.6
1	A	355	GLN	4.6

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Mol	Chain	Res	Type	RSRZ
1	D	356	ILE	4.6
1	E	178	SER	4.6
1	K	220	ALA	4.6
1	C	372	TYR	4.6
1	D	375	ASN	4.6
1	L	252	LYS	4.6
1	F	362	MET	4.6
1	L	50	THR	4.6
1	B	235	TYR	4.6
1	B	371	TYR	4.6
1	D	374	LEU	4.6
1	A	422	THR	4.6
1	H	232	ALA	4.6
1	E	376	ARG	4.6
1	L	52	GLN	4.6
1	C	373	LEU	4.6
1	D	376	ARG	4.6
1	E	245	SER	4.6
1	L	247	PHE	4.6
1	J	376	ARG	4.6
1	I	378	ASP	4.5
1	D	248	LYS	4.5
1	G	252	LYS	4.5
1	J	651	ALA	4.5
1	K	281	ILE	4.5
1	D	380	ASN	4.5
1	C	14	ARG	4.5
1	D	352	TRP	4.5
1	G	182	ASN	4.5
1	H	507	LEU	4.5
1	F	356	ILE	4.5
1	E	504	LYS	4.5
1	J	646	ASN	4.5
1	K	247	PHE	4.5
1	A	700	GLN	4.5
1	L	245	SER	4.5
1	D	507	LEU	4.5
1	D	720	VAL	4.5
1	E	395	PRO	4.5
1	A	511	ARG	4.5
1	C	168	SER	4.5
1	B	383	ASP	4.5

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Mol	Chain	Res	Type	RSRZ
1	L	378	ASP	4.5
1	F	424	ALA	4.5
1	C	17	ALA	4.5
1	F	195	ALA	4.5
1	B	18	ASP	4.5
1	D	363	TYR	4.4
1	C	505	GLN	4.4
1	G	377	THR	4.4
1	H	506	VAL	4.4
1	G	384	LEU	4.4
1	D	280	ILE	4.4
1	F	346	LYS	4.4
1	D	337	ASN	4.4
1	A	252	LYS	4.4
1	A	352	TRP	4.4
1	D	344	THR	4.4
1	D	253	ASP	4.4
1	B	374	LEU	4.4
1	B	724	PRO	4.4
1	L	269	ARG	4.4
1	C	181	GLN	4.4
1	G	717	SER	4.4
1	B	507	LEU	4.4
1	F	378	ASP	4.4
1	K	720	VAL	4.4
1	J	337	ASN	4.4
1	G	273	ARG	4.4
1	G	256	ASP	4.4
1	D	505	GLN	4.3
1	K	219	ILE	4.3
1	C	203	ASN	4.3
1	L	423	GLU	4.3
1	D	605	ASP	4.3
1	F	260	ASP	4.3
1	H	609	VAL	4.3
1	A	683	ALA	4.3
1	C	281	ILE	4.3
1	E	509	ASP	4.3
1	D	379	GLU	4.3
1	L	715	GLN	4.3
1	E	354	GLU	4.3
1	E	374	LEU	4.3

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Mol	Chain	Res	Type	RSRZ
1	K	252	LYS	4.3
1	C	7	ARG	4.3
1	D	219	ILE	4.3
1	K	240	THR	4.3
1	E	719	SER	4.3
1	H	352	TRP	4.3
1	D	281	ILE	4.3
1	K	383	ASP	4.3
1	B	286	VAL	4.3
1	L	248	LYS	4.3
1	C	16	ASP	4.3
1	C	386	THR	4.3
1	G	245	SER	4.3
1	E	289	ASP	4.2
1	L	257	ASP	4.2
1	L	714	ASN	4.2
1	B	378	ASP	4.2
1	K	393	GLU	4.2
1	B	506	VAL	4.2
1	I	717	SER	4.2
1	G	354	GLU	4.2
1	B	377	THR	4.2
1	E	365	GLY	4.2
1	K	213	THR	4.2
1	E	15	PHE	4.2
1	B	220	ALA	4.2
1	F	233	PHE	4.2
1	I	508	ASN	4.2
1	F	252	LYS	4.2
1	B	249	ARG	4.2
1	C	371	TYR	4.2
1	C	233	PHE	4.2
1	B	259	ALA	4.2
1	K	280	ILE	4.2
1	K	607	ALA	4.2
1	B	612	GLN	4.2
1	D	381	SER	4.2
1	G	353	PRO	4.2
1	I	233	PHE	4.2
1	I	720	VAL	4.2
1	E	17	ALA	4.2
1	L	85	GLY	4.1

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Mol	Chain	Res	Type	RSRZ
1	H	613	GLY	4.1
1	D	203	ASN	4.1
1	I	505	GLN	4.1
1	B	610	GLN	4.1
1	C	375	ASN	4.1
1	H	252	LYS	4.1
1	J	281	ILE	4.1
1	K	207	TRP	4.1
1	K	507	LEU	4.1
1	F	217	ILE	4.1
1	D	232	ALA	4.1
1	C	178	SER	4.1
1	H	643	ASN	4.1
1	C	377	THR	4.1
1	F	248	LYS	4.1
1	A	694	ASP	4.1
1	E	383	ASP	4.1
1	J	350	PHE	4.1
1	L	505	GLN	4.1
1	L	349	PRO	4.1
1	B	240	THR	4.1
1	B	370	PRO	4.1
1	B	15	PHE	4.1
1	K	610	GLN	4.1
1	A	701	ARG	4.1
1	D	5	GLU	4.1
1	D	247	PHE	4.1
1	G	715	GLN	4.0
1	D	235	TYR	4.0
1	D	349	PRO	4.0
1	B	703	ASP	4.0
1	G	642	GLN	4.0
1	H	54	ARG	4.0
1	J	195	ALA	4.0
1	L	383	ASP	4.0
1	H	612	GLN	4.0
1	I	252	LYS	4.0
1	L	422	THR	4.0
1	E	643	ASN	4.0
1	C	204	PRO	4.0
1	J	56	GLN	4.0
1	B	263	PHE	4.0

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Mol	Chain	Res	Type	RSRZ
1	J	664	GLU	4.0
1	K	341	VAL	4.0
1	F	235	TYR	4.0
1	F	256	ASP	4.0
1	J	184	TRP	4.0
1	E	718	GLY	4.0
1	D	199	PRO	4.0
1	F	636	ALA	4.0
1	L	341	VAL	4.0
1	B	421	ASP	4.0
1	B	50	THR	4.0
1	H	354	GLU	4.0
1	J	392	TYR	4.0
1	L	354	GLU	4.0
1	H	240	THR	4.0
1	L	372	TYR	4.0
1	L	264	ILE	4.0
1	E	248	LYS	4.0
1	J	649	ARG	4.0
1	B	253	ASP	4.0
1	K	286	VAL	3.9
1	G	356	ILE	3.9
1	H	642	GLN	3.9
1	A	513	ARG	3.9
1	G	348	LYS	3.9
1	L	375	ASN	3.9
1	F	612	GLN	3.9
1	D	6	ASN	3.9
1	L	273	ARG	3.9
1	B	384	LEU	3.9
1	B	10	SER	3.9
1	C	374	LEU	3.9
1	A	509	ASP	3.9
1	E	233	PHE	3.9
1	B	375	ASN	3.9
1	L	231	THR	3.9
1	C	286	VAL	3.9
1	D	11	ILE	3.9
1	J	608	MET	3.9
1	G	232	ALA	3.9
1	L	513	ARG	3.9
1	D	160	SER	3.9

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Mol	Chain	Res	Type	RSRZ
1	E	353	PRO	3.9
1	D	249	ARG	3.9
1	D	286	VAL	3.9
1	F	357	ALA	3.9
1	F	715	GLN	3.9
1	I	363	TYR	3.9
1	D	14	ARG	3.9
1	F	178	SER	3.8
1	A	718	GLY	3.8
1	F	421	ASP	3.8
1	A	350	PHE	3.8
1	C	363	TYR	3.8
1	L	716	PRO	3.8
1	J	607	ALA	3.8
1	A	508	ASN	3.8
1	I	401	ASN	3.8
1	B	354	GLU	3.8
1	E	221	GLU	3.8
1	L	235	TYR	3.8
1	K	346	LYS	3.8
1	E	502	GLY	3.8
1	I	424	ALA	3.8
1	I	373	LEU	3.8
1	J	7	ARG	3.8
1	K	392	TYR	3.8
1	E	218	GLN	3.8
1	J	199	PRO	3.8
1	E	384	LEU	3.8
1	G	55	GLY	3.8
1	C	382	GLY	3.8
1	F	380	ASN	3.8
1	L	605	ASP	3.8
1	J	213	THR	3.8
1	L	379	GLU	3.8
1	F	181	GLN	3.7
1	L	392	TYR	3.7
1	H	721	ALA	3.7
1	I	374	LEU	3.7
1	K	287	LEU	3.7
1	K	372	TYR	3.7
1	B	262	GLY	3.7
1	E	182	ASN	3.7

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Mol	Chain	Res	Type	RSRZ
1	J	606	PRO	3.7
1	I	248	LYS	3.7
1	I	636	ALA	3.7
1	C	384	LEU	3.7
1	G	423	GLU	3.7
1	D	400	ALA	3.7
1	H	611	ALA	3.7
1	J	352	TRP	3.7
1	K	384	LEU	3.7
1	L	511	ARG	3.7
1	A	356	ILE	3.7
1	A	370	PRO	3.7
1	B	718	GLY	3.7
1	B	219	ILE	3.7
1	A	354	GLU	3.7
1	B	611	ALA	3.7
1	A	710	SER	3.7
1	B	265	LYS	3.7
1	J	235	TYR	3.7
1	I	6	ASN	3.7
1	A	703	ASP	3.7
1	F	207	TRP	3.7
1	F	610	GLN	3.7
1	E	195	ALA	3.7
1	E	605	ASP	3.7
1	J	647	ALA	3.7
1	C	166	ASP	3.7
1	L	365	GLY	3.7
1	B	386	THR	3.7
1	B	349	PRO	3.7
1	A	610	GLN	3.6
1	E	215	ASP	3.6
1	F	364	ASP	3.6
1	A	249	ARG	3.6
1	G	511	ARG	3.6
1	C	197	ASP	3.6
1	L	266	ILE	3.6
1	K	235	TYR	3.6
1	B	390	ALA	3.6
1	K	509	ASP	3.6
1	F	180	SER	3.6
1	F	220	ALA	3.6

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Mol	Chain	Res	Type	RSRZ
1	C	249	ARG	3.6
1	J	217	ILE	3.6
1	L	364	ASP	3.6
1	C	251	ILE	3.6
1	G	362	MET	3.6
1	G	610	GLN	3.6
1	E	401	ASN	3.6
1	G	281	ILE	3.6
1	F	287	LEU	3.6
1	L	348	LYS	3.6
1	K	337	ASN	3.6
1	C	182	ASN	3.6
1	E	180	SER	3.6
1	J	248	LYS	3.6
1	K	6	ASN	3.6
1	B	13	SER	3.6
1	H	378	ASP	3.6
1	J	256	ASP	3.6
1	J	341	VAL	3.6
1	B	346	LYS	3.5
1	B	392	TYR	3.5
1	B	373	LEU	3.5
1	I	507	LEU	3.5
1	H	231	THR	3.5
1	G	259	ALA	3.5
1	G	611	ALA	3.5
1	H	423	GLU	3.5
1	E	7	ARG	3.5
1	F	635	ASP	3.5
1	J	219	ILE	3.5
1	K	606	PRO	3.5
1	J	604	GLN	3.5
1	D	204	PRO	3.5
1	J	14	ARG	3.5
1	F	46	SER	3.5
1	G	52	GLN	3.5
1	B	513	ARG	3.5
1	B	721	ALA	3.5
1	J	215	ASP	3.5
1	K	55	GLY	3.5
1	F	247	PHE	3.5
1	B	509	ASP	3.5

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Mol	Chain	Res	Type	RSRZ
1	C	379	GLU	3.5
1	E	222	PHE	3.5
1	J	508	ASN	3.5
1	L	382	GLY	3.5
1	D	346	LYS	3.5
1	D	389	LEU	3.5
1	F	365	GLY	3.5
1	J	722	GLU	3.5
1	C	215	ASP	3.5
1	C	504	LYS	3.5
1	K	285	ALA	3.5
1	K	199	PRO	3.5
1	K	378	ASP	3.5
1	D	10	SER	3.5
1	A	605	ASP	3.5
1	B	257	ASP	3.5
1	E	255	ILE	3.5
1	J	18	ASP	3.5
1	K	349	PRO	3.5
1	A	362	MET	3.5
1	L	251	ILE	3.5
1	L	346	LYS	3.5
1	B	255	ILE	3.5
1	G	264	ILE	3.5
1	E	282	THR	3.5
1	C	285	ALA	3.5
1	G	367	ASP	3.5
1	G	383	ASP	3.5
1	G	6	ASN	3.5
1	E	629	THR	3.5
1	J	507	LEU	3.5
1	G	643	ASN	3.5
1	D	604	GLN	3.5
1	F	213	THR	3.5
1	L	281	ILE	3.5
1	B	199	PRO	3.5
1	G	49	THR	3.4
1	J	280	ILE	3.4
1	D	205	ASN	3.4
1	H	249	ARG	3.4
1	H	349	PRO	3.4
1	A	693	GLY	3.4

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Mol	Chain	Res	Type	RSRZ
1	B	609	VAL	3.4
1	E	247	PHE	3.4
1	E	256	ASP	3.4
1	D	251	ILE	3.4
1	E	573	ASN	3.4
1	F	716	PRO	3.4
1	J	181	GLN	3.4
1	H	268	GLU	3.4
1	J	180	SER	3.4
1	B	608	MET	3.4
1	A	505	GLN	3.4
1	D	397	VAL	3.4
1	A	256	ASP	3.4
1	I	421	ASP	3.4
1	J	247	PHE	3.4
1	K	359	PHE	3.4
1	K	646	ASN	3.4
1	K	718	GLY	3.4
1	F	367	ASP	3.4
1	G	366	ASN	3.4
1	F	249	ARG	3.4
1	A	391	TYR	3.4
1	L	353	PRO	3.4
1	F	509	ASP	3.4
1	H	356	ILE	3.4
1	D	287	LEU	3.4
1	F	605	ASP	3.4
1	J	631	SER	3.4
1	L	362	MET	3.4
1	L	384	LEU	3.4
1	K	251	ILE	3.4
1	F	85	GLY	3.4
1	G	180	SER	3.4
1	G	564	GLY	3.4
1	K	508	ASN	3.4
1	B	11	ILE	3.4
1	D	213	THR	3.4
1	E	609	VAL	3.3
1	H	350	PHE	3.3
1	J	57	PHE	3.3
1	L	249	ARG	3.3
1	F	366	ASN	3.3

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Mol	Chain	Res	Type	RSRZ
1	A	609	VAL	3.3
1	G	346	LYS	3.3
1	E	240	THR	3.3
1	K	224	GLU	3.3
1	H	273	ARG	3.3
1	K	380	ASN	3.3
1	E	251	ILE	3.3
1	A	246	TYR	3.3
1	A	690	LEU	3.3
1	E	197	ASP	3.3
1	A	349	PRO	3.3
1	A	608	MET	3.3
1	L	506	VAL	3.3
1	C	240	THR	3.3
1	E	194	ASP	3.3
1	K	273	ARG	3.3
1	A	46	SER	3.3
1	F	379	GLU	3.3
1	J	371	TYR	3.3
1	L	230	GLU	3.3
1	H	247	PHE	3.3
1	H	55	GLY	3.3
1	G	337	ASN	3.3
1	I	352	TRP	3.3
1	B	348	LYS	3.3
1	E	11	ILE	3.3
1	I	376	ARG	3.3
1	D	390	ALA	3.3
1	J	220	ALA	3.3
1	C	508	ASN	3.3
1	J	650	ILE	3.3
1	B	172	HIS	3.3
1	D	240	THR	3.3
1	E	397	VAL	3.3
1	K	172	HIS	3.3
1	L	610	GLN	3.3
1	B	280	ILE	3.3
1	E	19	TRP	3.3
1	G	359	PHE	3.3
1	J	233	PHE	3.3
1	C	135	GLN	3.3
1	G	454	ALA	3.3

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Mol	Chain	Res	Type	RSRZ
1	J	652	GLU	3.3
1	E	172	HIS	3.3
1	G	422	THR	3.3
1	I	640	GLU	3.3
1	J	196	ASP	3.3
1	A	251	ILE	3.3
1	H	638	LYS	3.3
1	B	85	GLY	3.3
1	D	17	ALA	3.3
1	D	220	ALA	3.3
1	F	607	ALA	3.3
1	F	261	SER	3.2
1	C	217	ILE	3.2
1	E	636	ALA	3.2
1	F	264	ILE	3.2
1	L	337	ASN	3.2
1	G	716	PRO	3.2
1	G	513	ARG	3.2
1	H	235	TYR	3.2
1	J	273	ARG	3.2
1	B	287	LEU	3.2
1	B	682	ASP	3.2
1	D	159	ASP	3.2
1	H	495	GLU	3.2
1	D	601	GLN	3.2
1	E	642	GLN	3.2
1	F	196	ASP	3.2
1	I	635	ASP	3.2
1	B	20	THR	3.2
1	J	216	THR	3.2
1	D	245	SER	3.2
1	D	348	LYS	3.2
1	I	509	ASP	3.2
1	C	355	GLN	3.2
1	D	231	THR	3.2
1	C	658	ASP	3.2
1	B	683	ALA	3.2
1	F	259	ALA	3.2
1	J	643	ASN	3.2
1	B	662	GLN	3.2
1	F	184	TRP	3.2
1	D	341	VAL	3.2

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Mol	Chain	Res	Type	RSRZ
1	E	503	GLU	3.2
1	F	253	ASP	3.2
1	F	609	VAL	3.2
1	F	643	ASN	3.2
1	H	256	ASP	3.2
1	J	252	LYS	3.2
1	J	384	LEU	3.2
1	K	233	PHE	3.2
1	B	379	GLU	3.2
1	D	172	HIS	3.2
1	A	378	ASP	3.2
1	B	699	LYS	3.2
1	D	214	GLN	3.2
1	F	382	GLY	3.2
1	I	664	GLU	3.2
1	C	232	ALA	3.2
1	G	86	ALA	3.2
1	J	245	SER	3.2
1	K	377	THR	3.2
1	L	265	LYS	3.2
1	L	263	PHE	3.2
1	A	585	GLU	3.2
1	I	85	GLY	3.2
1	L	393	GLU	3.2
1	K	642	GLN	3.1
1	C	350	PHE	3.1
1	L	463	ILE	3.1
1	C	640	GLU	3.1
1	F	265	LYS	3.1
1	J	179	MET	3.1
1	F	182	ASN	3.1
1	G	714	ASN	3.1
1	B	232	ALA	3.1
1	A	698	HIS	3.1
1	C	247	PHE	3.1
1	G	263	PHE	3.1
1	I	275	ARG	3.1
1	B	251	ILE	3.1
1	G	249	ARG	3.1
1	B	19	TRP	3.1
1	A	232	ALA	3.1
1	D	147	GLU	3.1

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Mol	Chain	Res	Type	RSRZ
1	G	195	ALA	3.1
1	J	178	SER	3.1
1	J	645	LEU	3.1
1	C	216	THR	3.1
1	E	370	PRO	3.1
1	E	640	GLU	3.1
1	J	218	GLN	3.1
1	I	661	LYS	3.1
1	A	606	PRO	3.1
1	F	244	VAL	3.1
1	F	392	TYR	3.1
1	B	665	PHE	3.1
1	B	380	ASN	3.1
1	E	193	LEU	3.1
1	L	271	ILE	3.1
1	A	713	GLN	3.1
1	L	609	VAL	3.1
1	G	234	ILE	3.1
1	G	364	ASP	3.1
1	H	345	PRO	3.1
1	I	355	GLN	3.1
1	F	611	ALA	3.1
1	K	360	GLU	3.1
1	A	696	GLN	3.1
1	G	257	ASP	3.1
1	G	255	ILE	3.1
1	C	351	PHE	3.1
1	F	214	GLN	3.1
1	I	46	SER	3.1
1	C	201	PHE	3.1
1	C	213	THR	3.1
1	H	636	ALA	3.1
1	C	235	TYR	3.1
1	C	506	VAL	3.1
1	C	507	LEU	3.1
1	J	633	GLN	3.1
1	L	391	TYR	3.1
1	D	264	ILE	3.1
1	D	260	ASP	3.1
1	H	337	ASN	3.1
1	J	16	ASP	3.1
1	A	234	ILE	3.1

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Mol	Chain	Res	Type	RSRZ
1	A	392	TYR	3.1
1	H	607	ALA	3.1
1	H	608	MET	3.1
1	L	401	ASN	3.1
1	D	7	ARG	3.1
1	K	14	ARG	3.1
1	K	357	ALA	3.1
1	K	511	ARG	3.1
1	C	287	LEU	3.0
1	B	425	VAL	3.0
1	D	347	LYS	3.0
1	B	363	TYR	3.0
1	I	658	ASP	3.0
1	L	253	ASP	3.0
1	G	184	TRP	3.0
1	B	719	SER	3.0
1	D	608	MET	3.0
1	C	260	ASP	3.0
1	C	218	GLN	3.0
1	F	342	ALA	3.0
1	G	455	THR	3.0
1	I	247	PHE	3.0
1	C	11	ILE	3.0
1	H	251	ILE	3.0
1	C	511	ARG	3.0
1	H	47	GLN	3.0
1	B	613	GLY	3.0
1	E	174	THR	3.0
1	J	638	LYS	3.0
1	J	653	ILE	3.0
1	K	506	VAL	3.0
1	K	608	MET	3.0
1	L	356	ILE	3.0
1	D	683	ALA	3.0
1	A	47	GLN	3.0
1	A	384	LEU	3.0
1	F	263	PHE	3.0
1	F	286	VAL	3.0
1	D	207	TRP	3.0
1	G	268	GLU	3.0
1	J	395	PRO	3.0
1	E	216	THR	3.0

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Mol	Chain	Res	Type	RSRZ
1	H	640	GLU	3.0
1	C	55	GLY	3.0
1	C	198	ILE	3.0
1	C	608	MET	3.0
1	E	176	ILE	3.0
1	A	259	ALA	3.0
1	B	605	ASP	3.0
1	E	56	GLN	3.0
1	F	232	ALA	3.0
1	F	381	SER	3.0
1	G	56	GLN	3.0
1	I	256	ASP	3.0
1	J	505	GLN	3.0
1	D	268	GLU	3.0
1	K	505	GLN	3.0
1	F	275	ARG	3.0
1	L	234	ILE	3.0
1	L	397	VAL	3.0
1	F	359	PHE	3.0
1	F	10	SER	3.0
1	L	255	ILE	3.0
1	I	605	ASP	3.0
1	J	349	PRO	3.0
1	K	649	ARG	3.0
1	D	333	ILE	3.0
1	D	178	SER	3.0
1	G	267	ALA	3.0
1	J	573	ASN	3.0
1	I	513	ARG	3.0
1	K	605	ASP	3.0
1	E	13	SER	3.0
1	E	259	ALA	3.0
1	C	220	ALA	2.9
1	I	232	ALA	2.9
1	J	214	GLN	2.9
1	B	504	LYS	2.9
1	C	341	VAL	2.9
1	C	205	ASN	2.9
1	E	375	ASN	2.9
1	H	605	ASP	2.9
1	E	202	GLN	2.9
1	F	251	ILE	2.9

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Mol	Chain	Res	Type	RSRZ
1	F	255	ILE	2.9
1	G	251	ILE	2.9
1	G	246	TYR	2.9
1	L	259	ALA	2.9
1	B	261	SER	2.9
1	C	180	SER	2.9
1	E	335	SER	2.9
1	L	275	ARG	2.9
1	F	282	THR	2.9
1	F	257	ASP	2.9
1	J	58	ASP	2.9
1	E	181	GLN	2.9
1	G	240	THR	2.9
1	G	640	GLU	2.9
1	A	687	ALA	2.9
1	D	18	ASP	2.9
1	I	273	ARG	2.9
1	C	219	ILE	2.9
1	J	635	ASP	2.9
1	J	629	THR	2.9
1	E	633	GLN	2.9
1	H	494	ALA	2.9
1	I	349	PRO	2.9
1	C	354	GLU	2.9
1	E	131	ASP	2.9
1	E	631	SER	2.9
1	E	285	ALA	2.9
1	I	665	PHE	2.9
1	B	696	GLN	2.9
1	A	682	ASP	2.9
1	E	364	ASP	2.9
1	F	194	ASP	2.9
1	I	662	GLN	2.9
1	K	371	TYR	2.9
1	E	184	TRP	2.9
1	C	268	GLU	2.9
1	D	13	SER	2.9
1	F	280	ILE	2.9
1	B	717	SER	2.9
1	A	257	ASP	2.9
1	A	359	PHE	2.9
1	C	20	THR	2.9

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Mol	Chain	Res	Type	RSRZ
1	J	628	GLN	2.9
1	F	193	LEU	2.9
1	I	354	GLU	2.9
1	I	371	TYR	2.9
1	C	282	THR	2.9
1	H	511	ARG	2.9
1	D	717	SER	2.9
1	C	352	TRP	2.9
1	C	607	ALA	2.9
1	I	638	LYS	2.9
1	C	256	ASP	2.9
1	E	340	ILE	2.9
1	F	131	ASP	2.9
1	E	224	GLU	2.9
1	D	234	ILE	2.9
1	D	282	THR	2.9
1	C	13	SER	2.9
1	L	180	SER	2.9
1	A	85	GLY	2.9
1	D	218	GLN	2.8
1	D	395	PRO	2.8
1	J	401	ASN	2.8
1	A	719	SER	2.8
1	G	647	ALA	2.8
1	H	230	GLU	2.8
1	L	267	ALA	2.8
1	B	258	LEU	2.8
1	C	194	ASP	2.8
1	C	255	ILE	2.8
1	L	51	LEU	2.8
1	B	266	ILE	2.8
1	B	268	GLU	2.8
1	F	358	GLY	2.8
1	C	710	SER	2.8
1	D	195	ALA	2.8
1	L	606	PRO	2.8
1	C	169	ASP	2.8
1	D	161	ASN	2.8
1	D	269	ARG	2.8
1	D	686	ASN	2.8
1	D	581	VAL	2.8
1	E	347	LYS	2.8

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Mol	Chain	Res	Type	RSRZ
1	I	375	ASN	2.8
1	L	55	GLY	2.8
1	H	281	ILE	2.8
1	A	353	PRO	2.8
1	D	391	TYR	2.8
1	K	249	ARG	2.8
1	E	297	HIS	2.8
1	A	500	ALA	2.8
1	H	422	THR	2.8
1	H	199	PRO	2.8
1	B	678	ASP	2.8
1	K	222	PHE	2.8
1	L	390	ALA	2.8
1	E	85	GLY	2.8
1	B	234	ILE	2.8
1	E	356	ILE	2.8
1	K	404	MET	2.8
1	L	285	ALA	2.8
1	B	46	SER	2.8
1	A	607	ALA	2.8
1	J	642	GLN	2.8
1	F	197	ASP	2.8
1	B	223	TYR	2.8
1	C	284	THR	2.8
1	J	513	ARG	2.8
1	K	609	VAL	2.8
1	C	605	ASP	2.8
1	J	182	ASN	2.8
1	F	14	ARG	2.8
1	E	393	GLU	2.8
1	B	21	ALA	2.8
1	C	214	GLN	2.8
1	D	394	ASN	2.8
1	G	453	LEU	2.8
1	G	649	ARG	2.8
1	K	348	LYS	2.8
1	I	639	VAL	2.8
1	K	391	TYR	2.8
1	C	401	ASN	2.8
1	A	264	ILE	2.8
1	D	15	PHE	2.8
1	D	265	LYS	2.8

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Mol	Chain	Res	Type	RSRZ
1	K	381	SER	2.8
1	G	502	GLY	2.8
1	K	645	LEU	2.8
1	F	273	ARG	2.8
1	D	257	ASP	2.7
1	J	584	PRO	2.7
1	A	721	ALA	2.7
1	L	369	TYR	2.7
1	D	54	ARG	2.7
1	H	635	ASP	2.7
1	B	685	ALA	2.7
1	I	425	VAL	2.7
1	L	617	GLN	2.7
1	G	50	THR	2.7
1	J	640	GLU	2.7
1	F	266	ILE	2.7
1	B	238	PRO	2.7
1	B	353	PRO	2.7
1	C	606	PRO	2.7
1	D	582	LYS	2.7
1	E	578	GLN	2.7
1	L	568	MET	2.7
1	E	20	THR	2.7
1	E	572	ALA	2.7
1	I	381	SER	2.7
1	L	220	ALA	2.7
1	B	679	ARG	2.7
1	B	692	LYS	2.7
1	H	585	GLU	2.7
1	L	647	ALA	2.7
1	D	9	GLU	2.7
1	G	265	LYS	2.7
1	H	389	LEU	2.7
1	C	660	SER	2.7
1	J	721	ALA	2.7
1	C	424	ALA	2.7
1	K	195	ALA	2.7
1	F	511	ARG	2.7
1	F	608	MET	2.7
1	A	260	ASP	2.7
1	E	389	LEU	2.7
1	F	504	LYS	2.7

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Mol	Chain	Res	Type	RSRZ
1	F	369	TYR	2.7
1	E	382	GLY	2.7
1	G	456	ALA	2.7
1	G	644	GLN	2.7
1	H	401	ASN	2.7
1	C	425	VAL	2.7
1	F	639	VAL	2.7
1	G	181	GLN	2.7
1	J	393	GLU	2.7
1	K	279	SER	2.7
1	B	285	ALA	2.7
1	E	333	ILE	2.7
1	G	369	TYR	2.7
1	F	262	GLY	2.7
1	B	47	GLN	2.7
1	J	648	ALA	2.7
1	F	234	ILE	2.7
1	E	338	ALA	2.7
1	G	641	ALA	2.7
1	K	17	ALA	2.7
1	E	298	ILE	2.7
1	K	5	GLU	2.7
1	B	12	LEU	2.7
1	L	182	ASN	2.7
1	B	282	THR	2.7
1	G	390	ALA	2.7
1	B	236	GLN	2.7
1	F	340	ILE	2.6
1	E	635	ASP	2.6
1	G	612	GLN	2.6
1	A	624	LYS	2.6
1	J	17	ALA	2.6
1	C	337	ASN	2.6
1	C	420	VAL	2.6
1	E	135	GLN	2.6
1	G	345	PRO	2.6
1	L	421	ASP	2.6
1	D	285	ALA	2.6
1	E	582	LYS	2.6
1	E	608	MET	2.6
1	L	642	GLN	2.6
1	B	607	ALA	2.6

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Mol	Chain	Res	Type	RSRZ
1	A	45	LEU	2.6
1	K	344	THR	2.6
1	L	456	ALA	2.6
1	H	362	MET	2.6
1	L	181	GLN	2.6
1	C	184	TRP	2.6
1	G	401	ASN	2.6
1	E	513	ARG	2.6
1	I	249	ARG	2.6
1	J	665	PHE	2.6
1	L	270	GLN	2.6
1	D	74	ASN	2.6
1	G	646	ASN	2.6
1	H	260	ASP	2.6
1	C	263	PHE	2.6
1	E	606	PRO	2.6
1	G	5	GLU	2.6
1	H	135	GLN	2.6
1	I	716	PRO	2.6
1	K	57	PHE	2.6
1	E	257	ASP	2.6
1	K	215	ASP	2.6
1	F	218	GLN	2.6
1	G	220	ALA	2.6
1	H	633	GLN	2.6
1	I	631	SER	2.6
1	D	255	ILE	2.6
1	E	646	ASN	2.6
1	H	646	ASN	2.6
1	K	264	ILE	2.6
1	L	514	TYR	2.6
1	A	613	GLY	2.6
1	G	236	GLN	2.6
1	I	663	SER	2.6
1	J	637	ALA	2.6
1	L	347	LYS	2.6
1	D	404	MET	2.6
1	H	359	PHE	2.6
1	L	646	ASN	2.6
1	E	607	ALA	2.6
1	B	511	ARG	2.6
1	L	452	ASN	2.6

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Mol	Chain	Res	Type	RSRZ
1	D	382	GLY	2.6
1	G	391	TYR	2.6
1	I	641	ALA	2.6
1	D	105	ASN	2.6
1	E	134	ASP	2.6
1	G	613	GLY	2.6
1	I	235	TYR	2.6
1	B	614	VAL	2.6
1	D	130	THR	2.6
1	G	567	MET	2.6
1	J	374	LEU	2.6
1	B	130	THR	2.6
1	C	662	GLN	2.6
1	E	612	GLN	2.6
1	F	13	SER	2.6
1	E	204	PRO	2.6
1	E	564	GLY	2.6
1	F	425	VAL	2.6
1	B	688	GLU	2.6
1	J	396	GLU	2.6
1	J	495	GLU	2.6
1	L	394	ASN	2.6
1	A	642	GLN	2.6
1	H	513	ARG	2.6
1	K	214	GLN	2.6
1	D	606	PRO	2.6
1	J	661	LYS	2.6
1	H	719	SER	2.6
1	I	715	GLN	2.5
1	E	361	HIS	2.5
1	I	345	PRO	2.5
1	I	606	PRO	2.5
1	L	395	PRO	2.5
1	J	636	ALA	2.5
1	B	693	GLY	2.5
1	C	713	GLN	2.5
1	J	197	ASP	2.5
1	J	383	ASP	2.5
1	J	609	VAL	2.5
1	F	714	ASN	2.5
1	K	182	ASN	2.5
1	E	568	MET	2.5

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Mol	Chain	Res	Type	RSRZ
1	K	256	ASP	2.5
1	H	641	ALA	2.5
1	A	255	ILE	2.5
1	F	629	THR	2.5
1	K	282	THR	2.5
1	E	249	ARG	2.5
1	F	9	GLU	2.5
1	E	253	ASP	2.5
1	H	493	MET	2.5
1	A	705	ALA	2.5
1	K	15	PHE	2.5
1	C	661	LYS	2.5
1	D	230	GLU	2.5
1	B	169	ASP	2.5
1	C	250	ASP	2.5
1	E	177	HIS	2.5
1	E	394	ASN	2.5
1	K	358	GLY	2.5
1	I	607	ALA	2.5
1	F	452	ASN	2.5
1	J	662	GLN	2.5
1	C	283	CYS	2.5
1	J	346	LYS	2.5
1	J	260	ASP	2.5
1	G	258	LEU	2.5
1	F	606	PRO	2.5
1	A	281	ILE	2.5
1	E	639	VAL	2.5
1	I	231	THR	2.5
1	J	275	ARG	2.5
1	K	225	VAL	2.5
1	H	679	ARG	2.5
1	D	201	PHE	2.5
1	F	74	ASN	2.5
1	D	353	PRO	2.5
1	A	699	LYS	2.5
1	B	700	GLN	2.5
1	F	268	GLU	2.5
1	K	394	ASN	2.5
1	C	202	GLN	2.5
1	F	15	PHE	2.5
1	F	130	THR	2.5

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Mol	Chain	Res	Type	RSRZ
1	F	619	GLN	2.5
1	B	686	ASN	2.5
1	E	571	TYR	2.5
1	I	582	LYS	2.5
1	K	246	TYR	2.5
1	D	495	GLU	2.5
1	H	682	ASP	2.5
1	D	263	PHE	2.5
1	E	647	ALA	2.5
1	F	236	GLN	2.5
1	L	254	VAL	2.5
1	F	204	PRO	2.5
1	I	495	GLU	2.5
1	G	601	GLN	2.5
1	J	556	TYR	2.5
1	C	19	TRP	2.5
1	E	201	PHE	2.5
1	J	511	ARG	2.5
1	E	694	ASP	2.5
1	G	253	ASP	2.5
1	A	250	ASP	2.5
1	A	720	VAL	2.5
1	C	46	SER	2.5
1	D	609	VAL	2.5
1	D	636	ALA	2.5
1	E	577	ILE	2.5
1	F	631	SER	2.5
1	G	553	LEU	2.5
1	B	222	PHE	2.5
1	D	259	ALA	2.4
1	F	16	ASP	2.4
1	I	389	LEU	2.4
1	J	253	ASP	2.4
1	I	633	GLN	2.4
1	J	54	ARG	2.4
1	K	171	ARG	2.4
1	L	612	GLN	2.4
1	D	651	ALA	2.4
1	E	10	SER	2.4
1	I	372	TYR	2.4
1	J	509	ASP	2.4
1	K	18	ASP	2.4

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Mol	Chain	Res	Type	RSRZ
1	K	74	ASN	2.4
1	C	419	GLY	2.4
1	H	255	ILE	2.4
1	B	643	ASN	2.4
1	C	610	GLN	2.4
1	L	613	GLY	2.4
1	I	251	ILE	2.4
1	B	391	TYR	2.4
1	F	620	ALA	2.4
1	A	169	ASP	2.4
1	B	658	ASP	2.4
1	D	85	GLY	2.4
1	J	43	ASP	2.4
1	J	344	THR	2.4
1	J	394	ASN	2.4
1	E	214	GLN	2.4
1	G	609	VAL	2.4
1	K	376	ARG	2.4
1	L	11	ILE	2.4
1	A	280	ILE	2.4
1	E	12	LEU	2.4
1	E	234	ILE	2.4
1	K	275	ARG	2.4
1	C	625	ALA	2.4
1	I	637	ALA	2.4
1	K	53	TYR	2.4
1	G	51	LEU	2.4
1	G	272	LYS	2.4
1	G	378	ASP	2.4
1	H	253	ASP	2.4
1	I	260	ASP	2.4
1	G	341	VAL	2.4
1	B	49	THR	2.4
1	D	635	ASP	2.4
1	H	662	GLN	2.4
1	F	613	GLY	2.4
1	E	511	ARG	2.4
1	C	642	GLN	2.4
1	D	715	GLN	2.4
1	L	641	ALA	2.4
1	D	602	GLY	2.4
1	A	716	PRO	2.4

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Mol	Chain	Res	Type	RSRZ
1	B	697	THR	2.4
1	L	246	TYR	2.4
1	C	273	ARG	2.4
1	B	424	ALA	2.4
1	K	347	LYS	2.4
1	H	606	PRO	2.4
1	I	643	ASN	2.4
1	K	181	GLN	2.4
1	A	711	GLN	2.4
1	B	239	VAL	2.4
1	C	711	GLN	2.4
1	E	213	THR	2.4
1	F	17	ALA	2.4
1	K	647	ALA	2.4
1	L	366	ASN	2.4
1	L	54	ARG	2.4
1	L	286	VAL	2.4
1	C	167	LYS	2.4
1	G	516	CYS	2.4
1	K	160	SER	2.4
1	C	463	ILE	2.4
1	J	198	ILE	2.4
1	I	620	ALA	2.4
1	C	643	ASN	2.4
1	C	686	ASN	2.4
1	F	391	TYR	2.4
1	G	514	TYR	2.4
1	K	573	ASN	2.4
1	C	584	PRO	2.4
1	E	179	MET	2.4
1	F	581	VAL	2.4
1	H	509	ASP	2.4
1	A	611	ALA	2.4
1	A	689	LEU	2.4
1	B	174	THR	2.4
1	I	73	GLN	2.4
1	B	246	TYR	2.4
1	F	145	ARG	2.4
1	I	666	ARG	2.4
1	L	272	LYS	2.4
1	A	544	GLN	2.4
1	F	11	ILE	2.4

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Mol	Chain	Res	Type	RSRZ
1	F	525	GLN	2.4
1	H	629	THR	2.4
1	J	202	GLN	2.4
1	A	631	SER	2.4
1	J	13	SER	2.3
1	K	405	LEU	2.3
1	A	685	ALA	2.3
1	E	685	ALA	2.3
1	E	264	ILE	2.3
1	J	15	PHE	2.3
1	J	287	LEU	2.3
1	K	147	GLU	2.3
1	E	366	ASN	2.3
1	D	129	VAL	2.3
1	E	423	GLU	2.3
1	F	185	GLU	2.3
1	I	610	GLN	2.3
1	C	10	SER	2.3
1	J	282	THR	2.3
1	E	232	ALA	2.3
1	L	651	ALA	2.3
1	A	643	ASN	2.3
1	C	639	VAL	2.3
1	E	367	ASP	2.3
1	A	379	GLU	2.3
1	A	715	GLN	2.3
1	E	396	GLU	2.3
1	A	263	PHE	2.3
1	K	56	GLN	2.3
1	F	634	ILE	2.3
1	J	639	VAL	2.3
1	C	493	MET	2.3
1	E	334	MET	2.3
1	F	347	LYS	2.3
1	A	706	ASN	2.3
1	C	259	ALA	2.3
1	I	50	THR	2.3
1	B	582	LYS	2.3
1	E	641	ALA	2.3
1	G	261	SER	2.3
1	G	639	VAL	2.3
1	K	397	VAL	2.3

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Mol	Chain	Res	Type	RSRZ
1	G	556	TYR	2.3
1	E	203	ASN	2.3
1	I	511	ARG	2.3
1	A	568	MET	2.3
1	F	47	GLN	2.3
1	J	719	SER	2.3
1	G	57	PHE	2.3
1	H	85	GLY	2.3
1	J	603	GLN	2.3
1	A	231	THR	2.3
1	J	577	ILE	2.3
1	I	380	ASN	2.3
1	D	523	SER	2.3
1	I	629	THR	2.3
1	A	688	GLU	2.3
1	C	57	PHE	2.3
1	D	131	ASP	2.3
1	F	642	GLN	2.3
1	G	347	LYS	2.3
1	D	44	TRP	2.3
1	B	52	GLN	2.3
1	C	604	GLN	2.3
1	E	53	TYR	2.3
1	E	223	TYR	2.3
1	F	604	GLN	2.3
1	G	271	ILE	2.3
1	B	201	PHE	2.3
1	B	664	GLU	2.3
1	D	522	PRO	2.3
1	K	611	ALA	2.3
1	F	198	ILE	2.3
1	G	368	ASP	2.3
1	D	53	TYR	2.3
1	D	398	PRO	2.3
1	E	246	TYR	2.3
1	E	390	ALA	2.3
1	J	571	TYR	2.3
1	H	720	VAL	2.3
1	I	642	GLN	2.3
1	L	280	ILE	2.3
1	L	462	GLU	2.3
1	B	663	SER	2.3

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Mol	Chain	Res	Type	RSRZ
1	C	609	VAL	2.3
1	L	711	GLN	2.3
1	K	184	TRP	2.3
1	D	246	TYR	2.3
1	D	682	ASP	2.3
1	L	455	THR	2.3
1	F	556	TYR	2.3
1	H	625	ALA	2.3
1	A	506	VAL	2.3
1	J	644	GLN	2.3
1	E	198	ILE	2.3
1	J	251	ILE	2.3
1	K	635	ASP	2.3
1	C	688	GLU	2.3
1	C	51	LEU	2.2
1	K	631	SER	2.2
1	A	692	LYS	2.2
1	E	339	ASP	2.2
1	F	647	ALA	2.2
1	K	238	PRO	2.2
1	D	612	GLN	2.2
1	J	373	LEU	2.2
1	A	635	ASP	2.2
1	B	419	GLY	2.2
1	C	397	VAL	2.2
1	D	421	ASP	2.2
1	E	21	ALA	2.2
1	F	246	TYR	2.2
1	L	224	GLU	2.2
1	B	168	SER	2.2
1	E	160	SER	2.2
1	C	392	TYR	2.2
1	I	650	ILE	2.2
1	H	639	VAL	2.2
1	C	657	MET	2.2
1	A	135	GLN	2.2
1	D	610	GLN	2.2
1	I	286	VAL	2.2
1	E	159	ASP	2.2
1	J	423	GLU	2.2
1	G	558	THR	2.2
1	J	20	THR	2.2

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Mol	Chain	Res	Type	RSRZ
1	L	654	PHE	2.2
1	A	702	MET	2.2
1	C	393	GLU	2.2
1	G	280	ILE	2.2
1	K	640	GLU	2.2
1	H	582	LYS	2.2
1	L	571	TYR	2.2
1	B	547	PRO	2.2
1	L	74	ASN	2.2
1	L	240	THR	2.2
1	A	147	GLU	2.2
1	A	268	GLU	2.2
1	B	495	GLU	2.2
1	E	260	ASP	2.2
1	A	7	ARG	2.2
1	B	381	SER	2.2
1	D	56	GLN	2.2
1	D	578	GLN	2.2
1	E	168	SER	2.2
1	F	420	VAL	2.2
1	K	265	LYS	2.2
1	I	404	MET	2.2
1	K	395	PRO	2.2
1	C	222	PHE	2.2
1	G	572	ALA	2.2
1	L	344	THR	2.2
1	E	268	GLU	2.2
1	B	680	SER	2.2
1	C	513	ARG	2.2
1	K	513	ARG	2.2
1	E	231	THR	2.2
1	E	581	VAL	2.2
1	F	231	THR	2.2
1	H	624	LYS	2.2
1	L	453	LEU	2.2
1	A	695	GLU	2.2
1	B	147	GLU	2.2
1	C	280	ILE	2.2
1	C	641	ALA	2.2
1	D	16	ASP	2.2
1	D	289	ASP	2.2
1	G	262	GLY	2.2

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Mol	Chain	Res	Type	RSRZ
1	H	631	SER	2.2
1	H	683	ALA	2.2
1	J	355	GLN	2.2
1	K	245	SER	2.2
1	E	422	THR	2.2
1	H	504	LYS	2.2
1	F	633	GLN	2.2
1	I	253	ASP	2.2
1	D	267	ALA	2.2
1	H	271	ILE	2.2
1	L	298	ILE	2.2
1	J	201	PHE	2.2
1	J	610	GLN	2.2
1	J	632	LEU	2.2
1	C	391	TYR	2.2
1	H	392	TYR	2.2
1	J	224	GLU	2.2
1	K	284	THR	2.2
1	C	636	ALA	2.2
1	H	626	GLN	2.2
1	I	169	ASP	2.2
1	I	628	GLN	2.2
1	J	159	ASP	2.2
1	D	271	ILE	2.2
1	H	568	MET	2.2
1	A	168	SER	2.2
1	E	575	GLN	2.2
1	J	19	TRP	2.2
1	J	172	HIS	2.2
1	L	172	HIS	2.2
1	A	564	GLY	2.2
1	F	640	GLU	2.2
1	G	254	VAL	2.2
1	I	10	SER	2.2
1	L	611	ALA	2.2
1	E	205	ASN	2.2
1	A	577	ILE	2.2
1	I	604	GLN	2.2
1	A	679	ARG	2.2
1	B	224	GLU	2.2
1	E	501	THR	2.2
1	E	688	GLU	2.2

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Mol	Chain	Res	Type	RSRZ
1	K	648	ALA	2.2
1	B	575	GLN	2.2
1	H	614	VAL	2.2
1	C	345	PRO	2.2
1	J	654	PHE	2.2
1	K	260	ASP	2.2
1	L	658	ASP	2.2
1	F	285	ALA	2.1
1	J	558	THR	2.1
1	C	404	MET	2.1
1	E	610	GLN	2.1
1	B	237	ASP	2.1
1	I	573	ASN	2.1
1	G	620	ALA	2.1
1	E	556	TYR	2.1
1	J	370	PRO	2.1
1	I	525	GLN	2.1
1	C	685	ALA	2.1
1	L	649	ARG	2.1
1	B	347	LYS	2.1
1	G	219	ILE	2.1
1	K	398	PRO	2.1
1	L	608	MET	2.1
1	G	617	GLN	2.1
1	H	421	ASP	2.1
1	I	350	PHE	2.1
1	I	571	TYR	2.1
1	J	259	ALA	2.1
1	C	261	SER	2.1
1	K	362	MET	2.1
1	E	359	PHE	2.1
1	K	263	PHE	2.1
1	K	84	ASP	2.1
1	K	379	GLU	2.1
1	G	614	VAL	2.1
1	J	340	ILE	2.1
1	K	212	LEU	2.1
1	I	268	GLU	2.1
1	K	205	ASN	2.1
1	D	509	ASP	2.1
1	B	372	TYR	2.1
1	H	6	ASN	2.1

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Mol	Chain	Res	Type	RSRZ
1	C	653	ILE	2.1
1	I	250	ASP	2.1
1	B	578	GLN	2.1
1	D	270	GLN	2.1
1	F	73	GLN	2.1
1	J	85	GLY	2.1
1	F	201	PHE	2.1
1	F	426	ASN	2.1
1	L	510	ILE	2.1
1	F	584	PRO	2.1
1	A	707	ILE	2.1
1	G	231	THR	2.1
1	C	495	GLU	2.1
1	A	208	VAL	2.1
1	D	357	ALA	2.1
1	E	169	ASP	2.1
1	D	360	GLU	2.1
1	E	271	ILE	2.1
1	L	503	GLU	2.1
1	A	421	ASP	2.1
1	A	641	ALA	2.1
1	D	511	ARG	2.1
1	D	579	MET	2.1
1	K	54	ARG	2.1
1	G	266	ILE	2.1
1	K	236	GLN	2.1
1	B	617	GLN	2.1
1	C	370	PRO	2.1
1	E	263	PHE	2.1
1	B	640	GLU	2.1
1	F	513	ARG	2.1
1	G	130	THR	2.1
1	J	338	ALA	2.1
1	J	582	LYS	2.1
1	G	421	ASP	2.1
1	I	177	HIS	2.1
1	G	393	GLU	2.1
1	H	147	GLU	2.1
1	A	638	LYS	2.1
1	H	298	ILE	2.1
1	B	694	ASP	2.1
1	C	159	ASP	2.1

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Mol	Chain	Res	Type	RSRZ
1	B	160	SER	2.1
1	H	564	GLY	2.1
1	K	338	ALA	2.1
1	E	627	ASN	2.1
1	K	218	GLN	2.1
1	F	360	GLU	2.1
1	H	245	SER	2.1
1	E	238	PRO	2.1
1	C	612	GLN	2.1
1	C	656	ASN	2.1
1	H	287	LEU	2.1
1	B	503	GLU	2.1
1	G	185	GLU	2.1
1	H	250	ASP	2.1
1	K	604	GLN	2.1
1	D	261	SER	2.1
1	D	266	ILE	2.1
1	J	372	TYR	2.1
1	E	171	ARG	2.1
1	A	417	THR	2.0
1	B	606	PRO	2.0
1	G	389	LEU	2.0
1	A	380	ASN	2.0
1	D	283	CYS	2.0
1	K	253	ASP	2.0
1	A	381	SER	2.0
1	E	343	ARG	2.0
1	J	232	ALA	2.0
1	A	584	PRO	2.0
1	D	57	PHE	2.0
1	C	47	GLN	2.0
1	K	643	ASN	2.0
1	E	579	MET	2.0
1	F	75	PRO	2.0
1	A	452	ASN	2.0
1	C	564	GLY	2.0
1	J	74	ASN	2.0
1	J	641	ALA	2.0
1	K	242	GLU	2.0
1	K	628	GLN	2.0
1	L	619	GLN	2.0
1	E	421	ASP	2.0

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Mol	Chain	Res	Type	RSRZ
1	G	275	ARG	2.0
1	G	637	ALA	2.0
1	K	201	PHE	2.0
1	D	106	THR	2.0
1	A	572	ALA	2.0
1	B	681	GLU	2.0
1	C	573	ASN	2.0
1	L	396	GLU	2.0
1	C	302	PRO	2.0
1	C	49	THR	2.0
1	F	455	THR	2.0
1	E	230	GLU	2.0
1	F	243	PRO	2.0
1	F	250	ASP	2.0
1	A	130	THR	2.0
1	A	573	ASN	2.0
1	B	242	GLU	2.0
1	D	145	ARG	2.0
1	D	273	ARG	2.0
1	L	621	GLU	2.0
1	D	211	TRP	2.0
1	G	131	ASP	2.0
1	A	230	GLU	2.0
1	B	129	VAL	2.0
1	H	664	GLU	2.0
1	C	234	ILE	2.0
1	J	255	ILE	2.0
1	J	246	TYR	2.0
1	A	676	GLN	2.0
1	E	597	GLN	2.0
1	G	568	MET	2.0
1	H	269	ARG	2.0
1	B	341	VAL	2.0
1	F	637	ALA	2.0
1	K	629	THR	2.0
1	I	52	GLN	2.0
1	I	453	LEU	2.0

## 6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

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

### 6.3 Carbohydrates [i](#)

There are no carbohydrates in this entry.

### 6.4 Ligands [i](#)

There are no ligands in this entry.

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

There are no such residues in this entry.