



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 4, 2026 – 09:28 PM UTC

PDB ID : 3LJ5 / pdb_00003lj5
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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

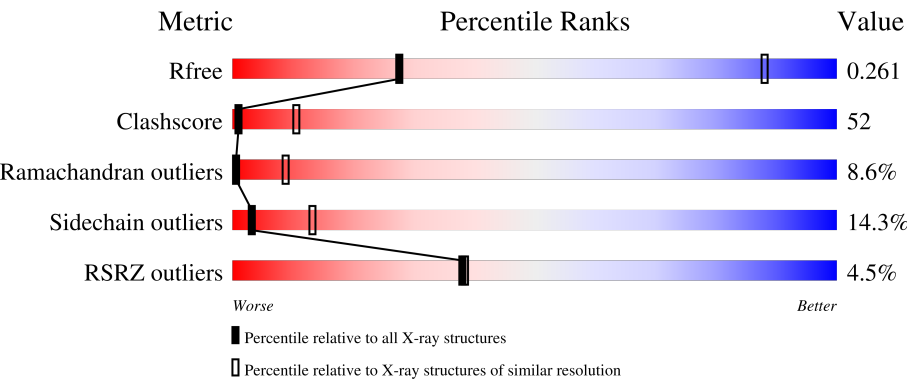
MolProbity	:	4-5-2 with Phenix2.0
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

1 Overall quality at a glance 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_{free}	180053	1167 (10.00-4.00)
Clashscore	190562	1000 (10.00-4.06)
Ramachandran outliers	187476	1054 (10.00-4.00)
Sidechain outliers	187428	1017 (10.00-4.00)
RSRZ outliers	180081	1161 (10.00-4.00)

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 of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	725	
1	B	725	
1	C	725	
1	D	725	
1	E	725	

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Mol	Chain	Length	Quality of chain
1	F	725	5% 36% 44% 14% • 5%
1	G	725	5% 35% 46% 13% • 5%
1	H	725	3% 36% 45% 13% • 5%
1	I	725	2% 36% 44% 14% • 5%
1	J	725	4% 36% 44% 14% • 5%
1	K	725	4% 37% 43% 14% • 5%
1	L	725	4% 37% 43% 14% • 5%

2 Entry composition

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.

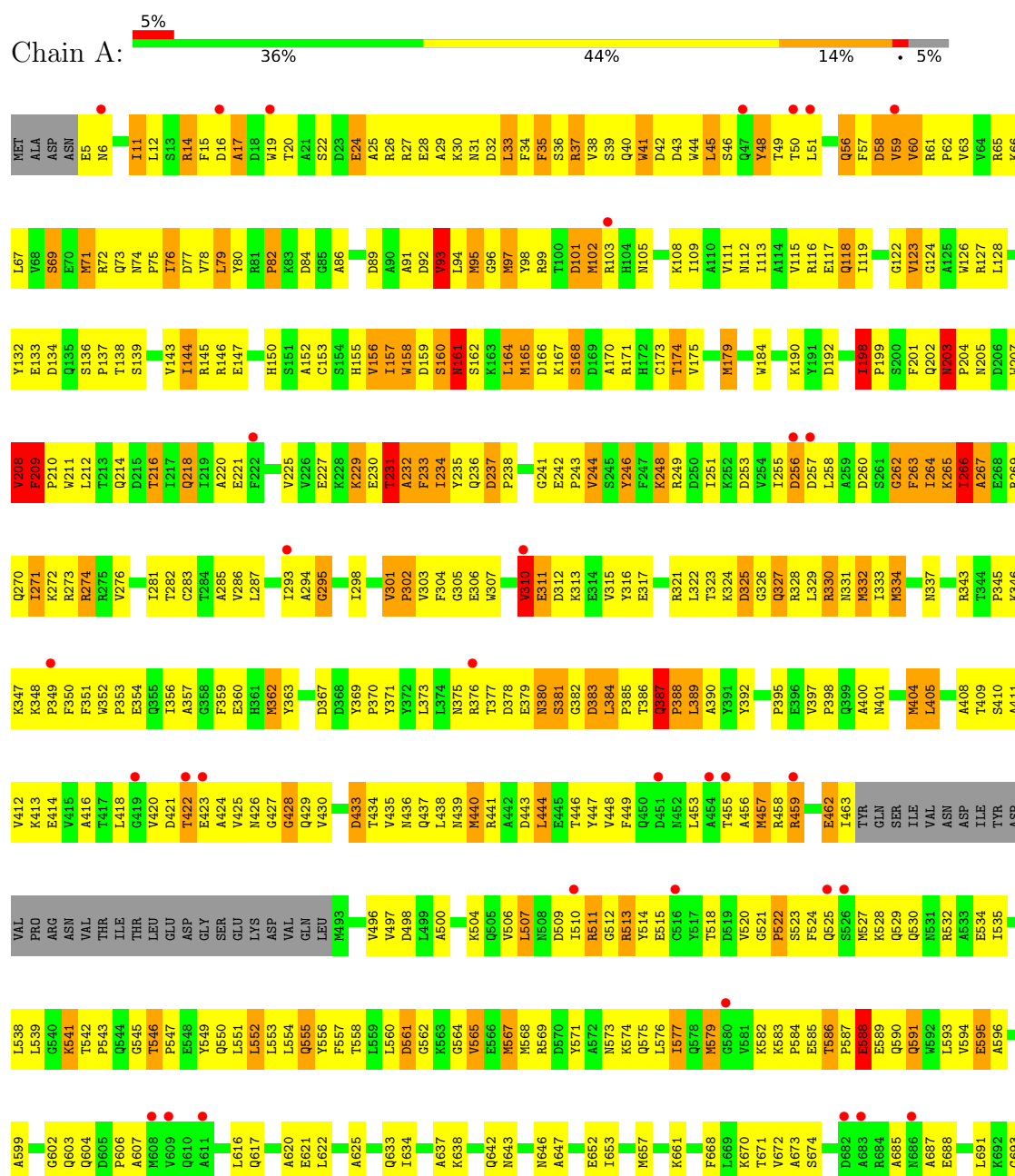
- Molecule 1 is a protein called Portal protein.

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

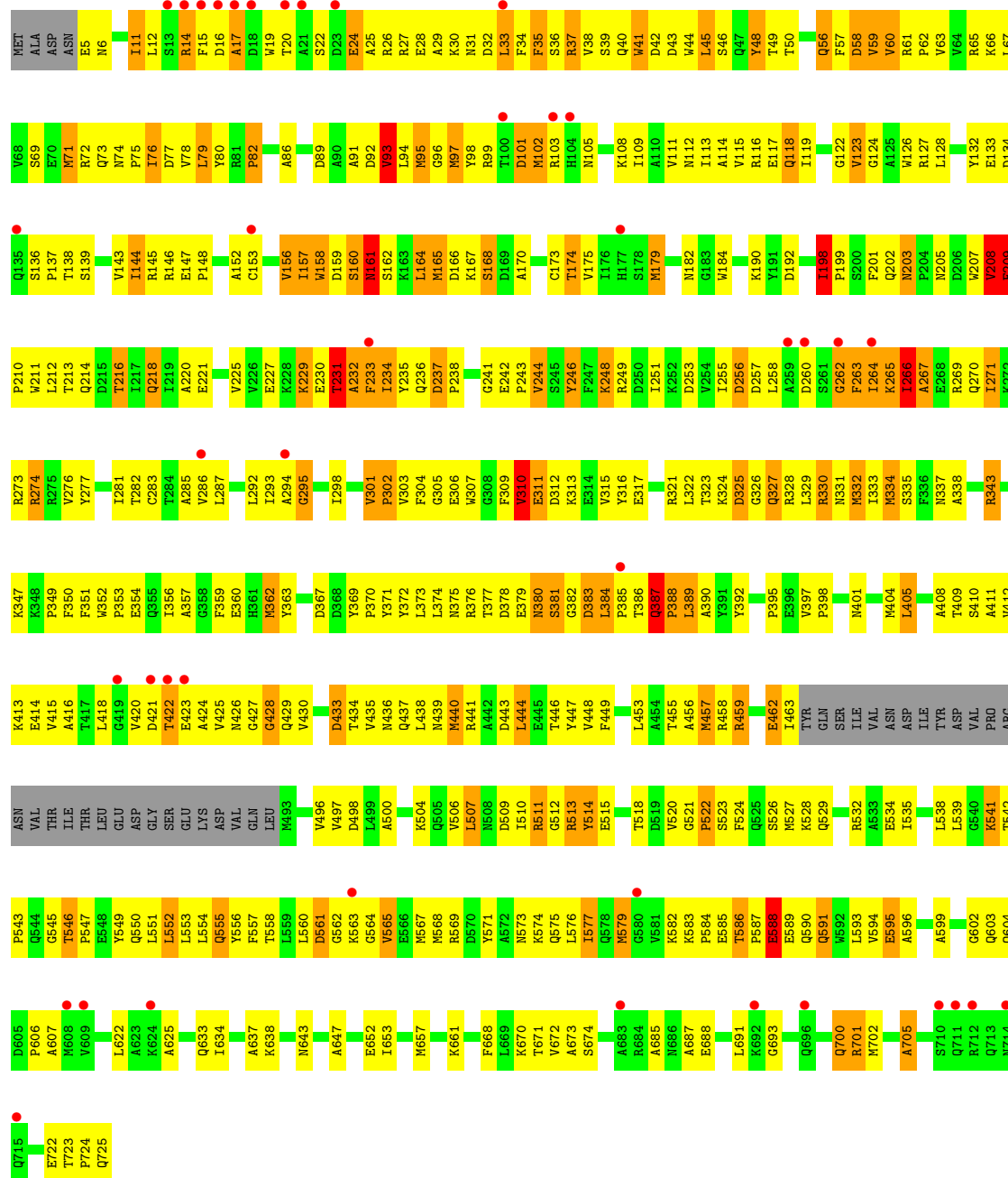
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. 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



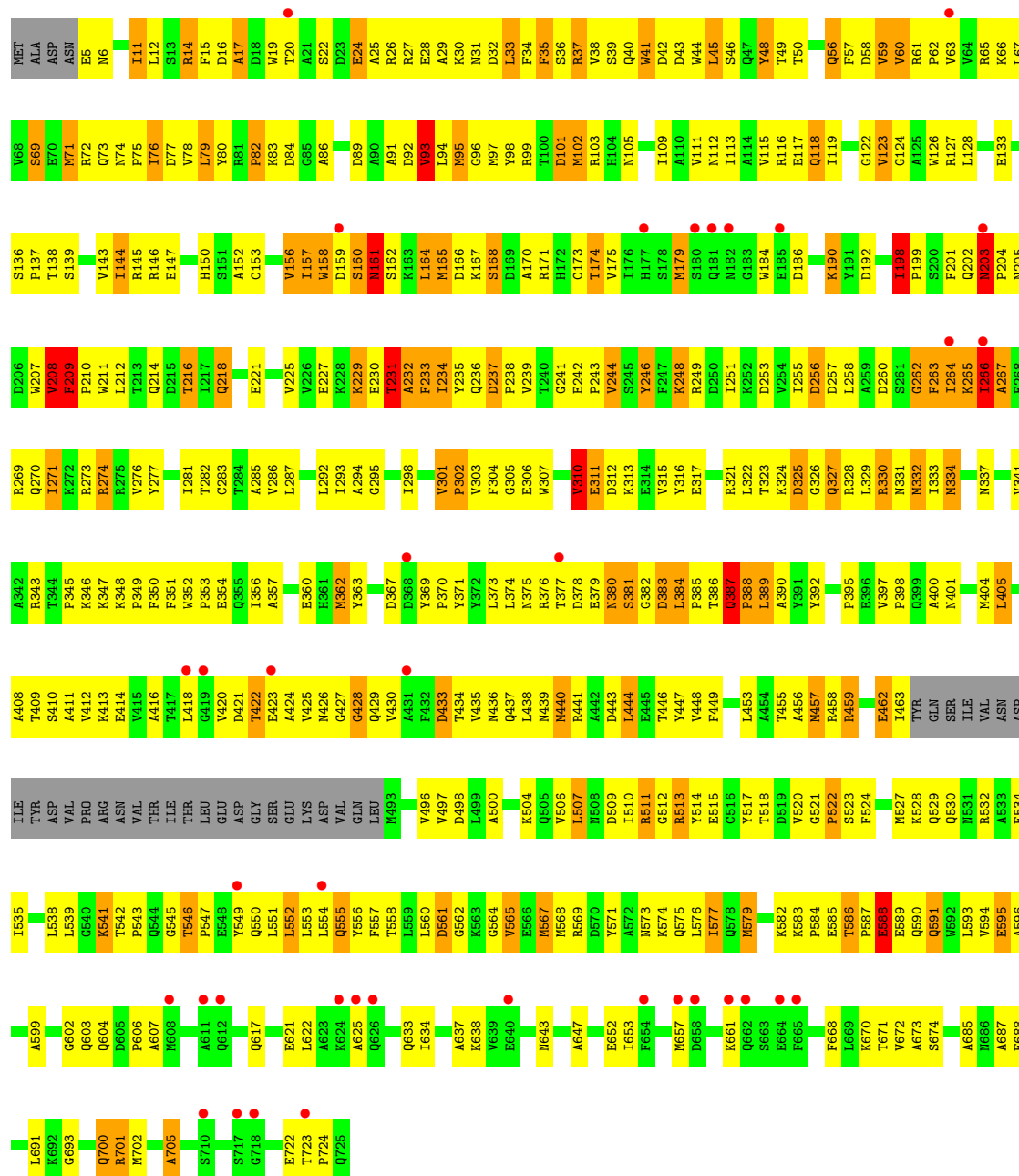


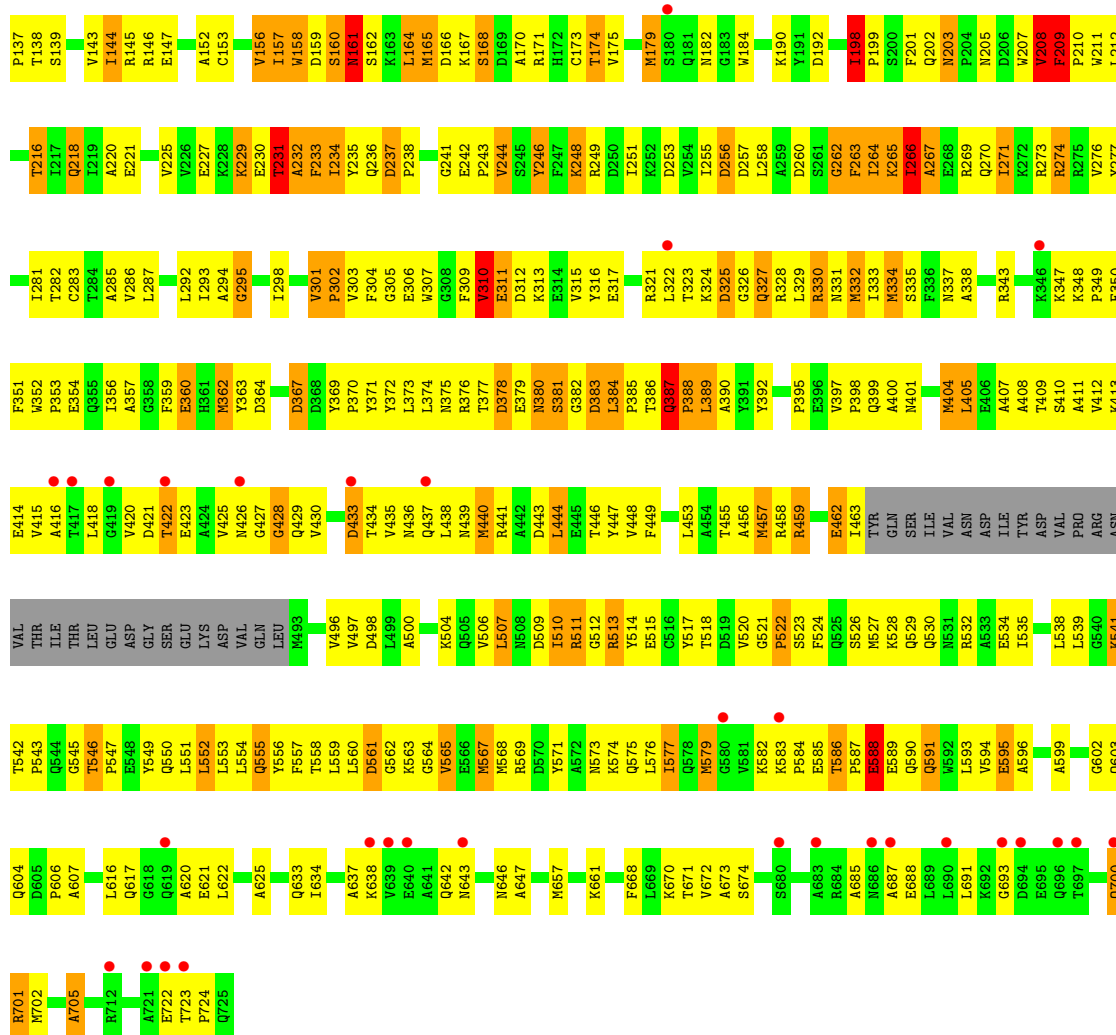
• Molecule 1: Portal protein



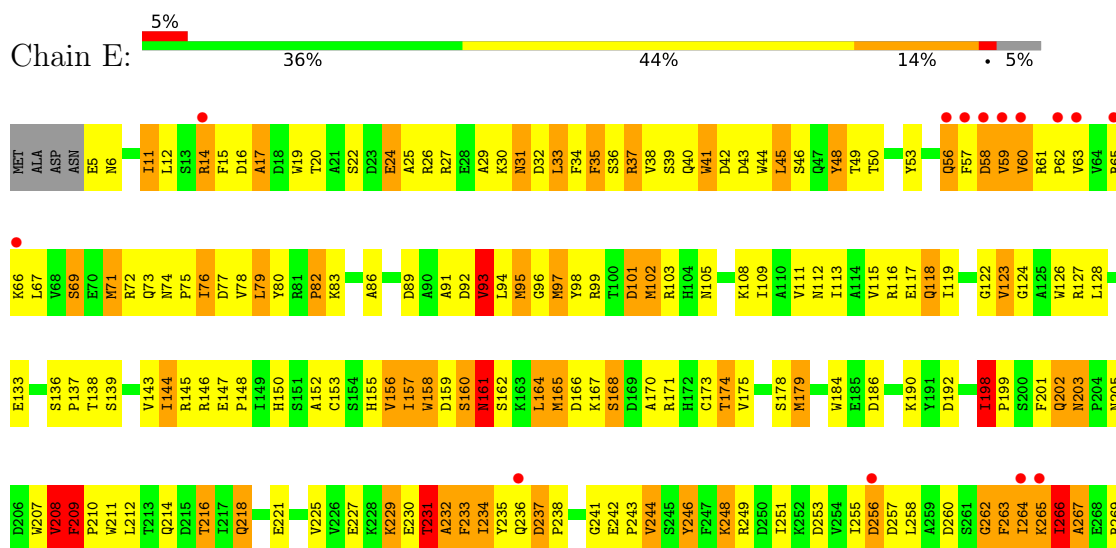
• Molecule 1: Portal protein

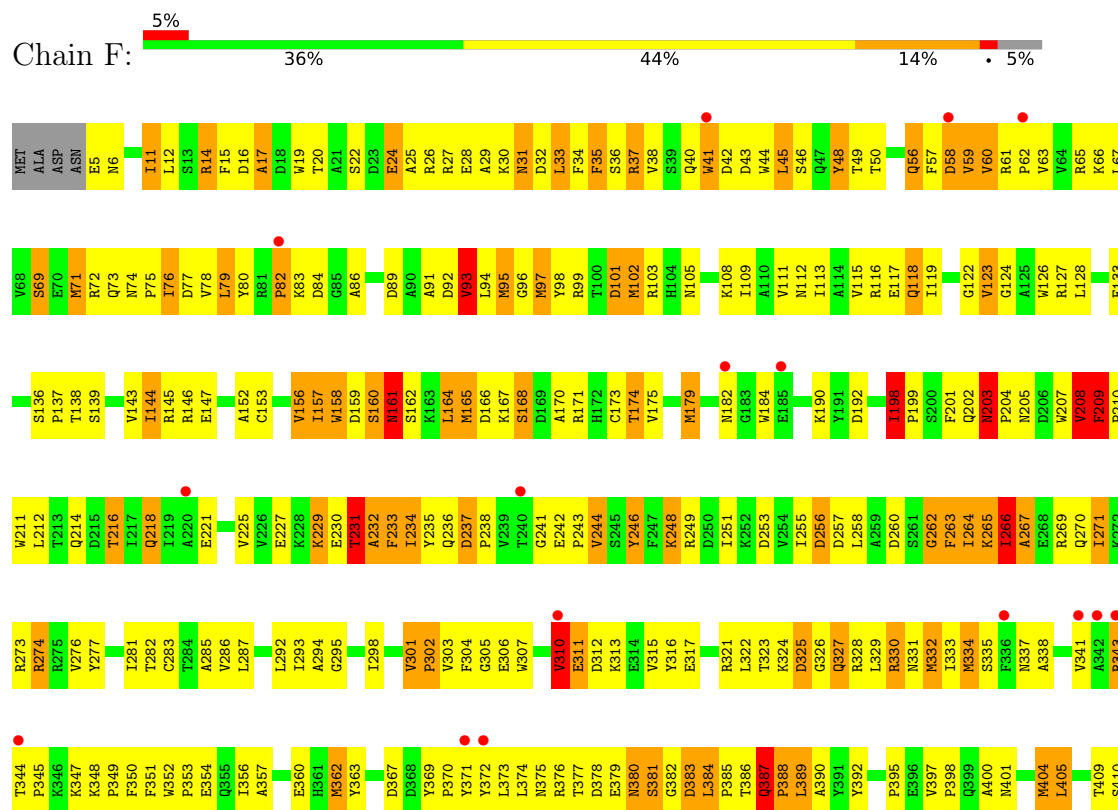


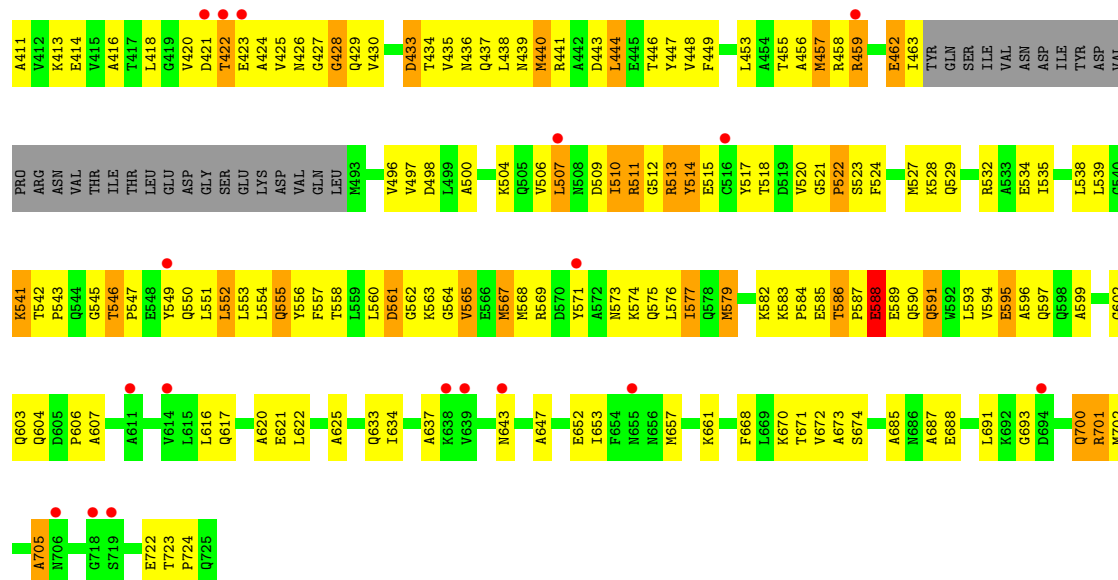




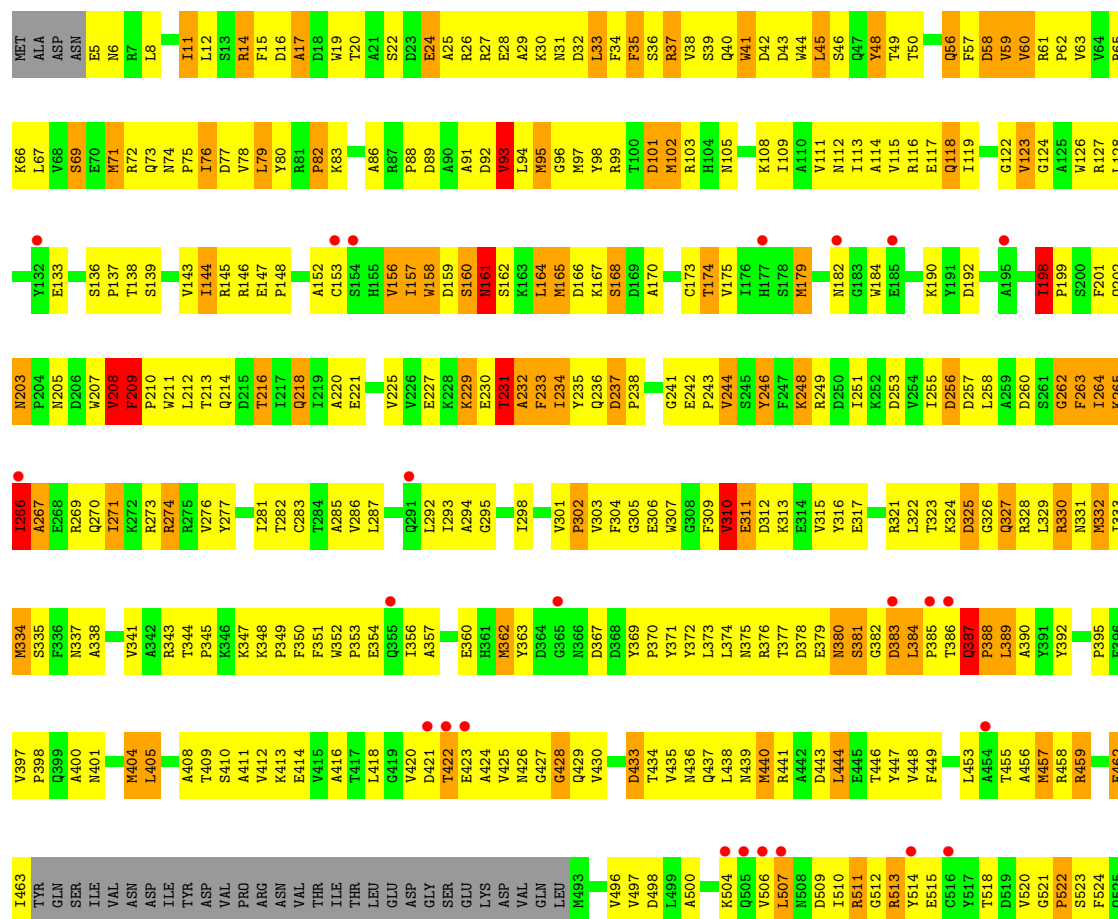
● Molecule 1: Portal protein

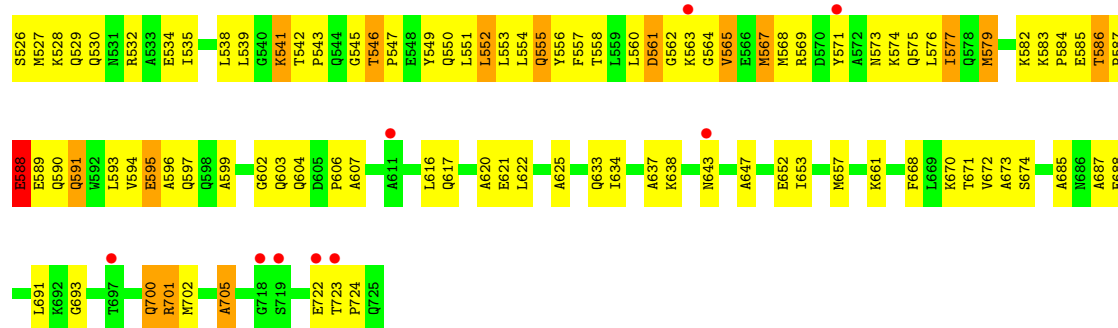




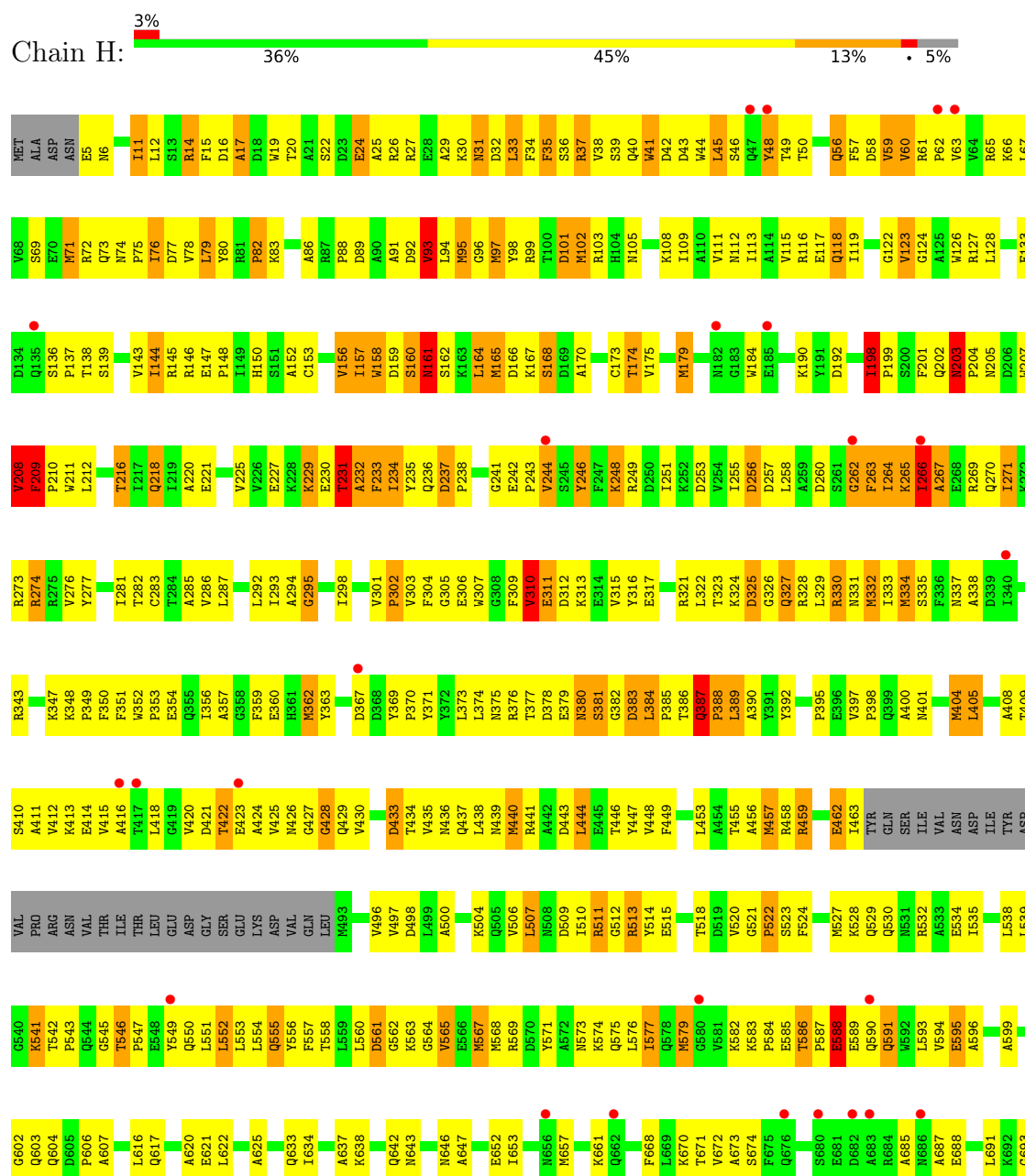


• Molecule 1: Portal protein



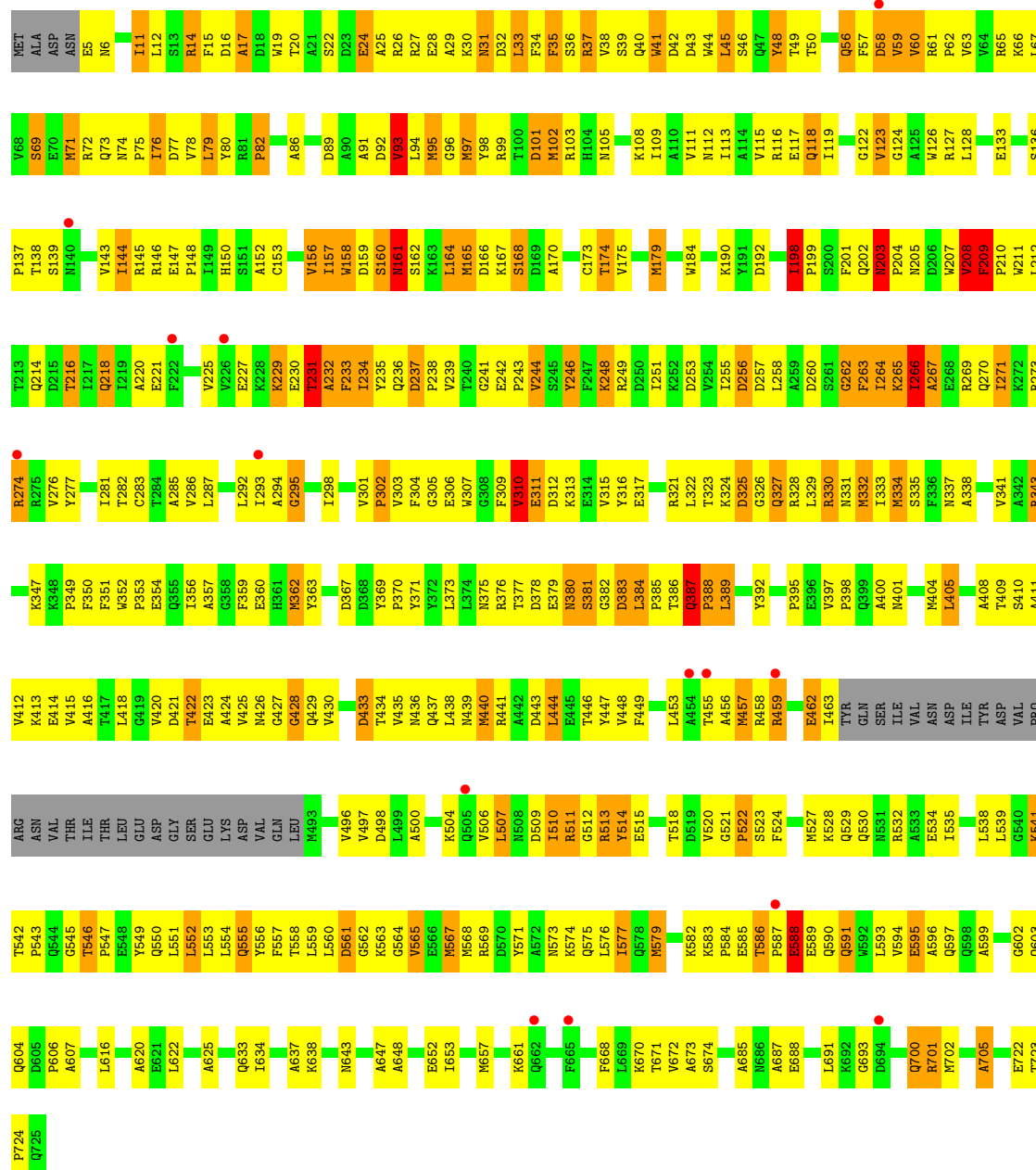


• Molecule 1: Portal protein



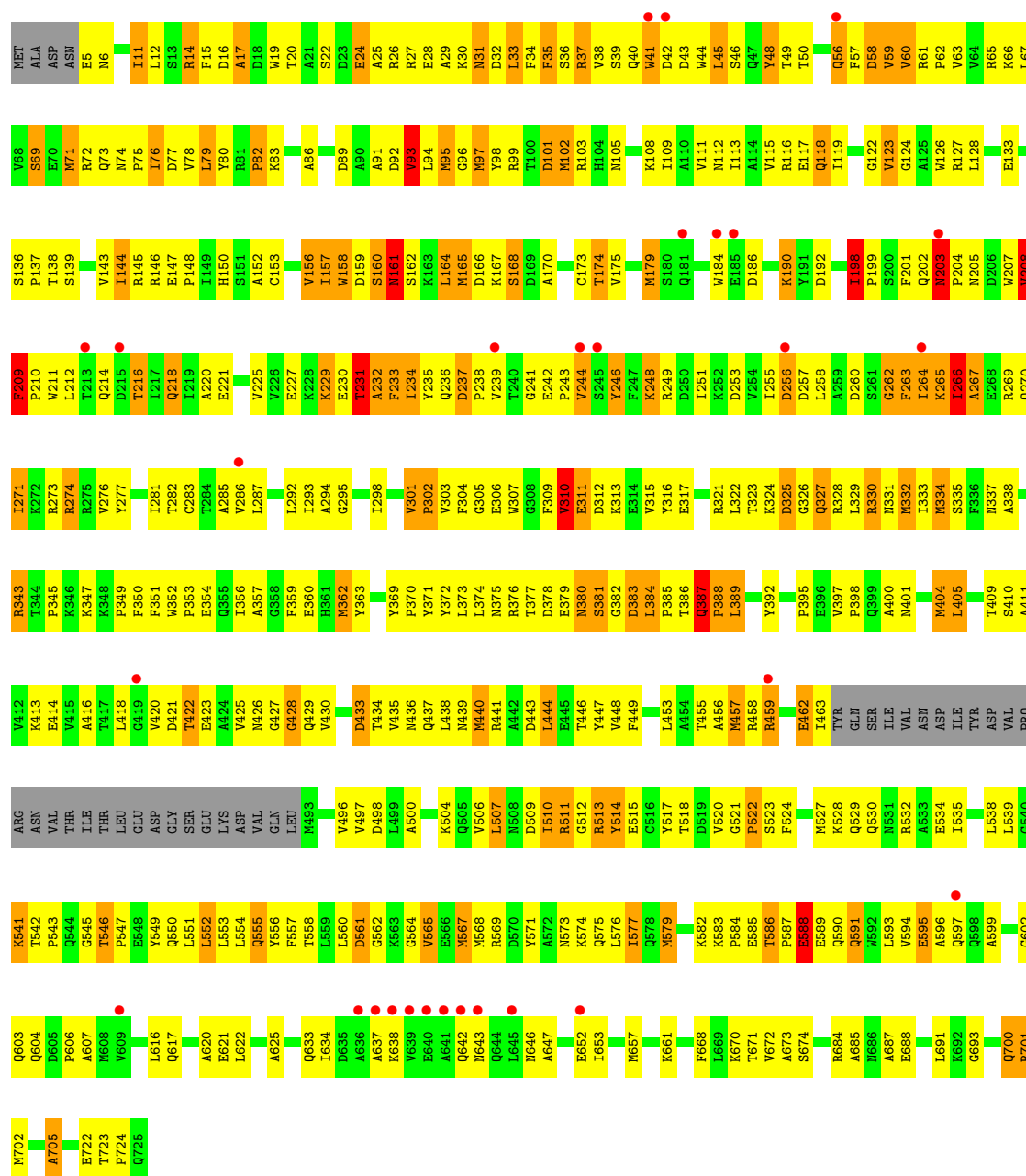


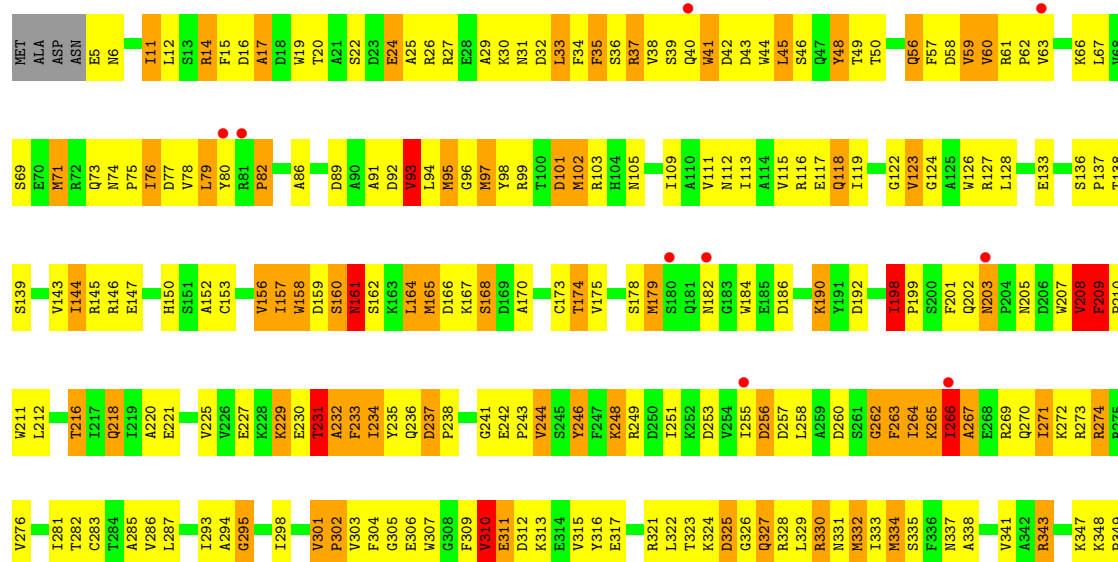
• Molecule 1: Portal protein

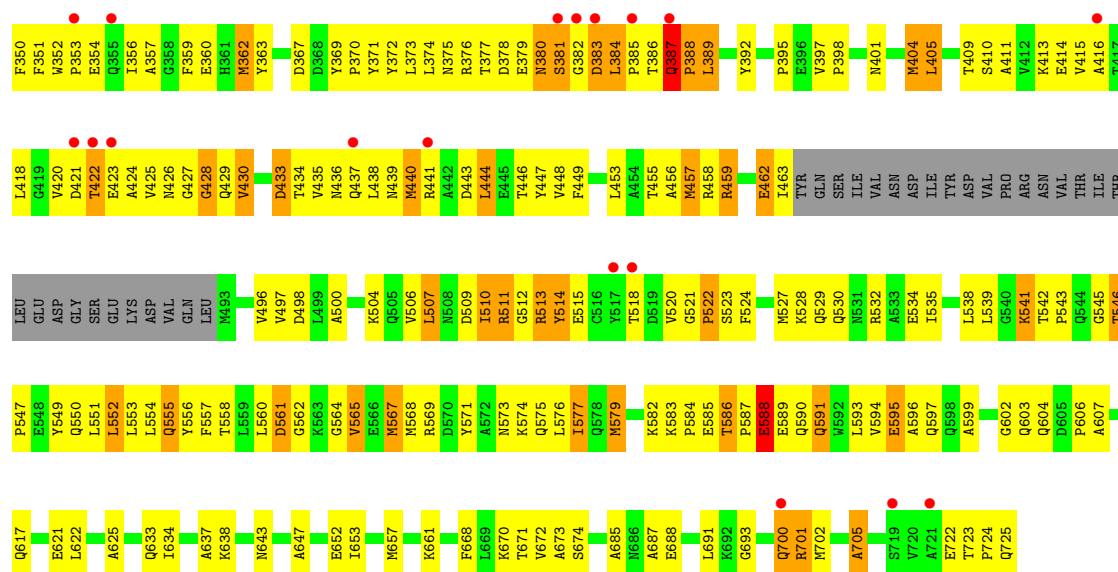


• Molecule 1: Portal protein









4 Data and refinement statistics

Property	Value	Source
Space group	I 4	Depositor
Cell constants a, b, c, α , β , γ	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) 92.9 (59.48-7.50)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.10	Depositor
$\langle I/\sigma(I) \rangle$ ¹	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	1994 reflections (7.33%)	wwPDB-VP
Wilson B-factor (Å ²)	236.8	Xtriage
Anisotropy	0.019	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.44 , 598.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.45$, $\langle L^2 \rangle = 0.28$	Xtriage
Estimated twinning fraction	0.035 for -k,-h,-l	Xtriage
F_o, F_c correlation	0.81	EDS
Total number of atoms	61512	wwPDB-VP
Average B, all atoms (Å ²)	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.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 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	0.67	29/5222 (0.6%)	0.98	25/7114 (0.4%)
1	B	0.67	29/5222 (0.6%)	0.98	24/7114 (0.3%)
1	C	0.67	29/5222 (0.6%)	0.98	24/7114 (0.3%)
1	D	0.67	29/5222 (0.6%)	0.98	25/7114 (0.4%)
1	E	0.67	29/5222 (0.6%)	0.98	25/7114 (0.4%)
1	F	0.67	29/5222 (0.6%)	0.98	25/7114 (0.4%)
1	G	0.67	30/5222 (0.6%)	0.98	25/7114 (0.4%)
1	H	0.67	29/5222 (0.6%)	0.98	24/7114 (0.3%)
1	I	0.67	29/5222 (0.6%)	0.98	25/7114 (0.4%)
1	J	0.67	29/5222 (0.6%)	0.98	24/7114 (0.3%)
1	K	0.67	29/5222 (0.6%)	0.98	25/7114 (0.4%)
1	L	0.67	29/5222 (0.6%)	0.98	24/7114 (0.3%)
All	All	0.67	349/62664 (0.6%)	0.98	295/85368 (0.3%)

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 (349) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	165	MET	CG-SD	7.35	1.99	1.80
1	G	165	MET	CG-SD	7.34	1.99	1.80
1	J	165	MET	CG-SD	7.34	1.99	1.80
1	H	165	MET	CG-SD	7.33	1.99	1.80
1	I	165	MET	CG-SD	7.33	1.99	1.80
1	A	165	MET	CG-SD	7.33	1.99	1.80
1	E	165	MET	CG-SD	7.32	1.99	1.80
1	D	165	MET	CG-SD	7.32	1.99	1.80
1	K	165	MET	CG-SD	7.31	1.99	1.80
1	C	165	MET	CG-SD	7.31	1.99	1.80
1	B	165	MET	CG-SD	7.30	1.99	1.80
1	L	165	MET	CG-SD	7.30	1.99	1.80
1	G	568	MET	SD-CE	6.87	1.96	1.79
1	E	568	MET	SD-CE	6.86	1.96	1.79
1	D	568	MET	SD-CE	6.86	1.96	1.79
1	K	71	MET	SD-CE	6.86	1.96	1.79
1	K	568	MET	SD-CE	6.85	1.96	1.79
1	I	568	MET	SD-CE	6.85	1.96	1.79
1	C	71	MET	SD-CE	6.84	1.96	1.79
1	A	568	MET	SD-CE	6.84	1.96	1.79
1	D	71	MET	SD-CE	6.84	1.96	1.79
1	H	568	MET	SD-CE	6.84	1.96	1.79
1	B	71	MET	SD-CE	6.84	1.96	1.79
1	F	71	MET	SD-CE	6.84	1.96	1.79
1	J	568	MET	SD-CE	6.83	1.96	1.79
1	L	568	MET	SD-CE	6.83	1.96	1.79
1	A	71	MET	SD-CE	6.83	1.96	1.79
1	E	71	MET	SD-CE	6.83	1.96	1.79
1	F	568	MET	SD-CE	6.83	1.96	1.79
1	G	71	MET	SD-CE	6.83	1.96	1.79
1	I	71	MET	SD-CE	6.83	1.96	1.79
1	B	568	MET	SD-CE	6.82	1.96	1.79
1	C	568	MET	SD-CE	6.82	1.96	1.79
1	J	71	MET	SD-CE	6.81	1.96	1.79
1	L	71	MET	SD-CE	6.81	1.96	1.79
1	H	71	MET	SD-CE	6.81	1.96	1.79
1	B	579	MET	CG-SD	6.63	1.97	1.80
1	F	579	MET	CG-SD	6.63	1.97	1.80
1	I	579	MET	CG-SD	6.63	1.97	1.80
1	G	579	MET	CG-SD	6.62	1.97	1.80
1	A	579	MET	CG-SD	6.62	1.97	1.80
1	C	579	MET	CG-SD	6.62	1.97	1.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	579	MET	CG-SD	6.62	1.97	1.80
1	K	579	MET	CG-SD	6.62	1.97	1.80
1	H	579	MET	CG-SD	6.62	1.97	1.80
1	J	579	MET	CG-SD	6.62	1.97	1.80
1	L	579	MET	CG-SD	6.59	1.97	1.80
1	E	579	MET	CG-SD	6.59	1.97	1.80
1	K	457	MET	CG-SD	6.54	1.97	1.80
1	H	457	MET	CG-SD	6.53	1.97	1.80
1	D	457	MET	CG-SD	6.53	1.97	1.80
1	J	457	MET	CG-SD	6.53	1.97	1.80
1	B	457	MET	CG-SD	6.53	1.97	1.80
1	C	457	MET	CG-SD	6.52	1.97	1.80
1	A	457	MET	CG-SD	6.52	1.97	1.80
1	E	457	MET	CG-SD	6.51	1.97	1.80
1	G	457	MET	CG-SD	6.51	1.97	1.80
1	L	457	MET	CG-SD	6.51	1.97	1.80
1	F	457	MET	CG-SD	6.50	1.97	1.80
1	L	579	MET	SD-CE	6.50	1.95	1.79
1	I	457	MET	CG-SD	6.50	1.97	1.80
1	G	579	MET	SD-CE	6.49	1.95	1.79
1	K	579	MET	SD-CE	6.49	1.95	1.79
1	J	579	MET	SD-CE	6.49	1.95	1.79
1	E	579	MET	SD-CE	6.48	1.95	1.79
1	A	579	MET	SD-CE	6.48	1.95	1.79
1	D	579	MET	SD-CE	6.47	1.95	1.79
1	C	579	MET	SD-CE	6.47	1.95	1.79
1	B	579	MET	SD-CE	6.46	1.95	1.79
1	H	579	MET	SD-CE	6.46	1.95	1.79
1	F	579	MET	SD-CE	6.45	1.95	1.79
1	I	579	MET	SD-CE	6.45	1.95	1.79
1	K	334	MET	CG-SD	6.42	1.96	1.80
1	E	334	MET	CG-SD	6.42	1.96	1.80
1	G	95	MET	SD-CE	6.41	1.95	1.79
1	D	95	MET	SD-CE	6.41	1.95	1.79
1	B	95	MET	SD-CE	6.41	1.95	1.79
1	J	95	MET	SD-CE	6.41	1.95	1.79
1	B	334	MET	CG-SD	6.40	1.96	1.80
1	E	95	MET	SD-CE	6.40	1.95	1.79
1	G	334	MET	CG-SD	6.40	1.96	1.80
1	I	95	MET	SD-CE	6.40	1.95	1.79
1	A	95	MET	SD-CE	6.40	1.95	1.79
1	C	95	MET	SD-CE	6.40	1.95	1.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	334	MET	CG-SD	6.40	1.96	1.80
1	A	334	MET	CG-SD	6.39	1.96	1.80
1	F	334	MET	CG-SD	6.39	1.96	1.80
1	H	95	MET	SD-CE	6.39	1.95	1.79
1	J	334	MET	CG-SD	6.39	1.96	1.80
1	K	95	MET	SD-CE	6.39	1.95	1.79
1	L	95	MET	SD-CE	6.39	1.95	1.79
1	D	334	MET	CG-SD	6.39	1.96	1.80
1	L	334	MET	CG-SD	6.39	1.96	1.80
1	I	334	MET	CG-SD	6.39	1.96	1.80
1	H	334	MET	CG-SD	6.38	1.96	1.80
1	J	527	MET	SD-CE	6.37	1.95	1.79
1	F	95	MET	SD-CE	6.37	1.95	1.79
1	H	527	MET	SD-CE	6.37	1.95	1.79
1	B	527	MET	SD-CE	6.36	1.95	1.79
1	C	527	MET	SD-CE	6.35	1.95	1.79
1	I	527	MET	SD-CE	6.35	1.95	1.79
1	A	527	MET	SD-CE	6.34	1.95	1.79
1	F	527	MET	SD-CE	6.33	1.95	1.79
1	K	527	MET	SD-CE	6.33	1.95	1.79
1	D	527	MET	SD-CE	6.33	1.95	1.79
1	G	527	MET	SD-CE	6.33	1.95	1.79
1	E	527	MET	SD-CE	6.33	1.95	1.79
1	C	95	MET	CG-SD	6.32	1.96	1.80
1	E	95	MET	CG-SD	6.32	1.96	1.80
1	H	95	MET	CG-SD	6.32	1.96	1.80
1	H	102	MET	SD-CE	6.32	1.95	1.79
1	B	102	MET	SD-CE	6.32	1.95	1.79
1	L	527	MET	SD-CE	6.32	1.95	1.79
1	J	102	MET	SD-CE	6.32	1.95	1.79
1	E	440	MET	SD-CE	6.32	1.95	1.79
1	K	95	MET	CG-SD	6.31	1.96	1.80
1	B	95	MET	CG-SD	6.31	1.96	1.80
1	G	102	MET	SD-CE	6.31	1.95	1.79
1	A	95	MET	CG-SD	6.31	1.96	1.80
1	D	95	MET	CG-SD	6.31	1.96	1.80
1	J	95	MET	CG-SD	6.31	1.96	1.80
1	D	440	MET	SD-CE	6.31	1.95	1.79
1	I	440	MET	SD-CE	6.30	1.95	1.79
1	C	102	MET	SD-CE	6.30	1.95	1.79
1	A	102	MET	SD-CE	6.30	1.95	1.79
1	G	95	MET	CG-SD	6.30	1.96	1.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	440	MET	SD-CE	6.30	1.95	1.79
1	K	102	MET	SD-CE	6.30	1.95	1.79
1	B	440	MET	SD-CE	6.30	1.95	1.79
1	I	102	MET	SD-CE	6.30	1.95	1.79
1	G	440	MET	SD-CE	6.29	1.95	1.79
1	L	102	MET	SD-CE	6.29	1.95	1.79
1	E	102	MET	SD-CE	6.29	1.95	1.79
1	F	102	MET	SD-CE	6.29	1.95	1.79
1	A	440	MET	SD-CE	6.29	1.95	1.79
1	F	95	MET	CG-SD	6.29	1.96	1.80
1	F	440	MET	SD-CE	6.29	1.95	1.79
1	I	95	MET	CG-SD	6.29	1.96	1.80
1	L	95	MET	CG-SD	6.29	1.96	1.80
1	D	102	MET	SD-CE	6.28	1.95	1.79
1	J	97	MET	SD-CE	6.28	1.95	1.79
1	K	440	MET	SD-CE	6.28	1.95	1.79
1	K	97	MET	SD-CE	6.28	1.95	1.79
1	C	440	MET	SD-CE	6.28	1.95	1.79
1	L	440	MET	SD-CE	6.27	1.95	1.79
1	D	97	MET	SD-CE	6.27	1.95	1.79
1	L	97	MET	SD-CE	6.27	1.95	1.79
1	H	440	MET	SD-CE	6.27	1.95	1.79
1	A	97	MET	SD-CE	6.26	1.95	1.79
1	E	97	MET	SD-CE	6.26	1.95	1.79
1	H	97	MET	SD-CE	6.26	1.95	1.79
1	J	404	MET	SD-CE	6.26	1.95	1.79
1	C	97	MET	SD-CE	6.25	1.95	1.79
1	C	404	MET	SD-CE	6.25	1.95	1.79
1	F	404	MET	SD-CE	6.25	1.95	1.79
1	G	404	MET	SD-CE	6.25	1.95	1.79
1	B	97	MET	SD-CE	6.25	1.95	1.79
1	B	404	MET	SD-CE	6.25	1.95	1.79
1	E	404	MET	SD-CE	6.25	1.95	1.79
1	I	97	MET	SD-CE	6.25	1.95	1.79
1	F	97	MET	SD-CE	6.25	1.95	1.79
1	L	404	MET	SD-CE	6.25	1.95	1.79
1	K	362	MET	SD-CE	6.24	1.95	1.79
1	D	404	MET	SD-CE	6.24	1.95	1.79
1	I	404	MET	SD-CE	6.24	1.95	1.79
1	F	362	MET	SD-CE	6.23	1.95	1.79
1	H	362	MET	SD-CE	6.23	1.95	1.79
1	A	404	MET	SD-CE	6.23	1.95	1.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	97	MET	SD-CE	6.23	1.95	1.79
1	D	362	MET	SD-CE	6.23	1.95	1.79
1	J	362	MET	SD-CE	6.22	1.95	1.79
1	H	404	MET	SD-CE	6.22	1.95	1.79
1	I	362	MET	SD-CE	6.22	1.95	1.79
1	A	362	MET	SD-CE	6.21	1.95	1.79
1	K	404	MET	SD-CE	6.21	1.95	1.79
1	E	362	MET	SD-CE	6.21	1.95	1.79
1	L	362	MET	SD-CE	6.21	1.95	1.79
1	C	362	MET	SD-CE	6.20	1.95	1.79
1	G	362	MET	SD-CE	6.19	1.95	1.79
1	B	362	MET	SD-CE	6.19	1.95	1.79
1	C	332	MET	SD-CE	6.06	1.94	1.79
1	K	567	MET	SD-CE	6.06	1.94	1.79
1	L	567	MET	SD-CE	6.06	1.94	1.79
1	L	332	MET	SD-CE	6.06	1.94	1.79
1	B	567	MET	SD-CE	6.05	1.94	1.79
1	A	567	MET	SD-CE	6.04	1.94	1.79
1	F	567	MET	SD-CE	6.04	1.94	1.79
1	E	567	MET	SD-CE	6.04	1.94	1.79
1	J	567	MET	SD-CE	6.04	1.94	1.79
1	H	567	MET	SD-CE	6.03	1.94	1.79
1	A	332	MET	SD-CE	6.03	1.94	1.79
1	C	567	MET	SD-CE	6.03	1.94	1.79
1	D	332	MET	SD-CE	6.03	1.94	1.79
1	I	332	MET	SD-CE	6.03	1.94	1.79
1	E	332	MET	SD-CE	6.03	1.94	1.79
1	G	332	MET	SD-CE	6.03	1.94	1.79
1	B	332	MET	SD-CE	6.03	1.94	1.79
1	H	332	MET	SD-CE	6.03	1.94	1.79
1	F	332	MET	SD-CE	6.03	1.94	1.79
1	G	567	MET	SD-CE	6.03	1.94	1.79
1	I	567	MET	SD-CE	6.02	1.94	1.79
1	K	332	MET	SD-CE	6.02	1.94	1.79
1	J	332	MET	SD-CE	6.02	1.94	1.79
1	D	567	MET	SD-CE	6.00	1.94	1.79
1	L	440	MET	CG-SD	5.97	1.95	1.80
1	C	440	MET	CG-SD	5.96	1.95	1.80
1	D	440	MET	CG-SD	5.95	1.95	1.80
1	G	440	MET	CG-SD	5.95	1.95	1.80
1	I	440	MET	CG-SD	5.95	1.95	1.80
1	J	440	MET	CG-SD	5.95	1.95	1.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	440	MET	CG-SD	5.94	1.95	1.80
1	B	440	MET	CG-SD	5.94	1.95	1.80
1	A	440	MET	CG-SD	5.94	1.95	1.80
1	E	440	MET	CG-SD	5.94	1.95	1.80
1	F	440	MET	CG-SD	5.93	1.95	1.80
1	K	440	MET	CG-SD	5.93	1.95	1.80
1	L	568	MET	CG-SD	5.89	1.95	1.80
1	D	567	MET	CG-SD	5.89	1.95	1.80
1	B	567	MET	CG-SD	5.88	1.95	1.80
1	E	567	MET	CG-SD	5.88	1.95	1.80
1	F	568	MET	CG-SD	5.88	1.95	1.80
1	I	567	MET	CG-SD	5.88	1.95	1.80
1	A	567	MET	CG-SD	5.88	1.95	1.80
1	F	567	MET	CG-SD	5.88	1.95	1.80
1	K	567	MET	CG-SD	5.88	1.95	1.80
1	L	567	MET	CG-SD	5.88	1.95	1.80
1	B	568	MET	CG-SD	5.88	1.95	1.80
1	C	568	MET	CG-SD	5.87	1.95	1.80
1	G	567	MET	CG-SD	5.87	1.95	1.80
1	J	567	MET	CG-SD	5.87	1.95	1.80
1	A	568	MET	CG-SD	5.87	1.95	1.80
1	C	567	MET	CG-SD	5.87	1.95	1.80
1	H	568	MET	CG-SD	5.87	1.95	1.80
1	I	568	MET	CG-SD	5.86	1.95	1.80
1	H	567	MET	CG-SD	5.86	1.95	1.80
1	D	568	MET	CG-SD	5.84	1.95	1.80
1	K	568	MET	CG-SD	5.84	1.95	1.80
1	G	568	MET	CG-SD	5.84	1.95	1.80
1	J	568	MET	CG-SD	5.84	1.95	1.80
1	L	179	MET	SD-CE	5.84	1.94	1.79
1	C	179	MET	SD-CE	5.84	1.94	1.79
1	E	568	MET	CG-SD	5.84	1.95	1.80
1	H	179	MET	SD-CE	5.83	1.94	1.79
1	G	179	MET	SD-CE	5.82	1.94	1.79
1	I	179	MET	SD-CE	5.82	1.94	1.79
1	D	179	MET	SD-CE	5.82	1.94	1.79
1	A	179	MET	SD-CE	5.82	1.94	1.79
1	E	179	MET	SD-CE	5.81	1.94	1.79
1	J	179	MET	SD-CE	5.80	1.94	1.79
1	B	179	MET	SD-CE	5.80	1.94	1.79
1	J	165	MET	SD-CE	5.80	1.94	1.79
1	K	179	MET	SD-CE	5.80	1.94	1.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	165	MET	SD-CE	5.80	1.94	1.79
1	F	179	MET	SD-CE	5.79	1.94	1.79
1	C	165	MET	SD-CE	5.78	1.94	1.79
1	F	165	MET	SD-CE	5.78	1.94	1.79
1	I	165	MET	SD-CE	5.78	1.94	1.79
1	H	179	MET	CG-SD	5.78	1.95	1.80
1	A	165	MET	SD-CE	5.78	1.94	1.79
1	D	165	MET	SD-CE	5.77	1.94	1.79
1	L	179	MET	CG-SD	5.77	1.95	1.80
1	F	179	MET	CG-SD	5.76	1.95	1.80
1	H	165	MET	SD-CE	5.76	1.94	1.79
1	B	179	MET	CG-SD	5.76	1.95	1.80
1	K	165	MET	SD-CE	5.76	1.94	1.79
1	A	179	MET	CG-SD	5.76	1.95	1.80
1	E	165	MET	SD-CE	5.76	1.94	1.79
1	K	179	MET	CG-SD	5.76	1.95	1.80
1	G	165	MET	SD-CE	5.76	1.94	1.79
1	B	165	MET	SD-CE	5.76	1.94	1.79
1	E	179	MET	CG-SD	5.76	1.95	1.80
1	C	179	MET	CG-SD	5.75	1.95	1.80
1	I	179	MET	CG-SD	5.75	1.95	1.80
1	G	179	MET	CG-SD	5.75	1.95	1.80
1	J	179	MET	CG-SD	5.75	1.95	1.80
1	D	179	MET	CG-SD	5.74	1.95	1.80
1	F	457	MET	SD-CE	5.63	1.93	1.79
1	H	457	MET	SD-CE	5.62	1.93	1.79
1	G	457	MET	SD-CE	5.61	1.93	1.79
1	B	457	MET	SD-CE	5.61	1.93	1.79
1	D	457	MET	SD-CE	5.61	1.93	1.79
1	C	457	MET	SD-CE	5.60	1.93	1.79
1	I	457	MET	SD-CE	5.60	1.93	1.79
1	L	457	MET	SD-CE	5.60	1.93	1.79
1	A	457	MET	SD-CE	5.59	1.93	1.79
1	E	457	MET	SD-CE	5.59	1.93	1.79
1	J	457	MET	SD-CE	5.58	1.93	1.79
1	K	527	MET	CG-SD	5.58	1.94	1.80
1	G	527	MET	CG-SD	5.58	1.94	1.80
1	F	527	MET	CG-SD	5.57	1.94	1.80
1	E	527	MET	CG-SD	5.57	1.94	1.80
1	L	527	MET	CG-SD	5.57	1.94	1.80
1	A	527	MET	CG-SD	5.56	1.94	1.80
1	D	527	MET	CG-SD	5.56	1.94	1.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	457	MET	SD-CE	5.56	1.93	1.79
1	I	527	MET	CG-SD	5.56	1.94	1.80
1	B	527	MET	CG-SD	5.55	1.94	1.80
1	K	404	MET	CG-SD	5.55	1.94	1.80
1	G	334	MET	SD-CE	5.54	1.93	1.79
1	E	334	MET	SD-CE	5.54	1.93	1.79
1	C	334	MET	SD-CE	5.54	1.93	1.79
1	J	527	MET	CG-SD	5.54	1.94	1.80
1	C	527	MET	CG-SD	5.53	1.94	1.80
1	H	527	MET	CG-SD	5.53	1.94	1.80
1	B	404	MET	CG-SD	5.53	1.94	1.80
1	H	404	MET	CG-SD	5.52	1.94	1.80
1	L	334	MET	SD-CE	5.52	1.93	1.79
1	A	404	MET	CG-SD	5.52	1.94	1.80
1	I	334	MET	SD-CE	5.52	1.93	1.79
1	A	334	MET	SD-CE	5.52	1.93	1.79
1	I	404	MET	CG-SD	5.52	1.94	1.80
1	D	334	MET	SD-CE	5.52	1.93	1.79
1	G	404	MET	CG-SD	5.51	1.94	1.80
1	H	334	MET	SD-CE	5.51	1.93	1.79
1	K	334	MET	SD-CE	5.51	1.93	1.79
1	E	404	MET	CG-SD	5.50	1.94	1.80
1	C	404	MET	CG-SD	5.50	1.94	1.80
1	F	404	MET	CG-SD	5.50	1.94	1.80
1	B	334	MET	SD-CE	5.50	1.93	1.79
1	F	334	MET	SD-CE	5.50	1.93	1.79
1	L	404	MET	CG-SD	5.50	1.94	1.80
1	J	404	MET	CG-SD	5.50	1.94	1.80
1	D	404	MET	CG-SD	5.49	1.94	1.80
1	J	334	MET	SD-CE	5.49	1.93	1.79
1	B	48	TYR	CA-C	5.38	1.59	1.52
1	E	48	TYR	CA-C	5.38	1.59	1.52
1	I	48	TYR	CA-C	5.37	1.59	1.52
1	H	48	TYR	CA-C	5.34	1.59	1.52
1	K	48	TYR	CA-C	5.33	1.59	1.52
1	L	48	TYR	CA-C	5.33	1.59	1.52
1	A	48	TYR	CA-C	5.33	1.59	1.52
1	J	48	TYR	CA-C	5.32	1.59	1.52
1	E	102	MET	CG-SD	5.31	1.94	1.80
1	C	48	TYR	CA-C	5.31	1.59	1.52
1	L	102	MET	CG-SD	5.31	1.94	1.80
1	B	102	MET	CG-SD	5.31	1.94	1.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	102	MET	CG-SD	5.31	1.94	1.80
1	D	48	TYR	CA-C	5.30	1.59	1.52
1	G	48	TYR	CA-C	5.30	1.59	1.52
1	I	102	MET	CG-SD	5.30	1.94	1.80
1	D	102	MET	CG-SD	5.29	1.94	1.80
1	J	102	MET	CG-SD	5.29	1.94	1.80
1	A	102	MET	CG-SD	5.29	1.94	1.80
1	C	102	MET	CG-SD	5.29	1.94	1.80
1	F	102	MET	CG-SD	5.28	1.94	1.80
1	G	102	MET	CG-SD	5.27	1.94	1.80
1	H	102	MET	CG-SD	5.26	1.94	1.80
1	F	48	TYR	CA-C	5.26	1.59	1.52
1	G	362	MET	CG-SD	5.00	1.93	1.80

All (295) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	60	VAL	N-CA-C	9.50	120.31	110.62
1	F	60	VAL	N-CA-C	9.50	120.31	110.62
1	G	60	VAL	N-CA-C	9.50	120.31	110.62
1	C	60	VAL	N-CA-C	9.49	120.30	110.62
1	K	60	VAL	N-CA-C	9.47	120.28	110.62
1	L	60	VAL	N-CA-C	9.47	120.28	110.62
1	A	60	VAL	N-CA-C	9.47	120.28	110.62
1	B	60	VAL	N-CA-C	9.47	120.28	110.62
1	H	60	VAL	N-CA-C	9.46	120.27	110.62
1	E	60	VAL	N-CA-C	9.46	120.27	110.62
1	I	60	VAL	N-CA-C	9.44	120.25	110.62
1	J	60	VAL	N-CA-C	9.40	120.20	110.62
1	F	507	LEU	N-CA-C	8.31	123.15	111.52
1	L	507	LEU	N-CA-C	8.30	123.15	111.52
1	D	507	LEU	N-CA-C	8.30	123.14	111.52
1	A	507	LEU	N-CA-C	8.29	123.12	111.52
1	C	507	LEU	N-CA-C	8.29	123.12	111.52
1	G	507	LEU	N-CA-C	8.28	123.11	111.52
1	H	507	LEU	N-CA-C	8.28	123.11	111.52
1	E	507	LEU	N-CA-C	8.27	123.10	111.52
1	J	507	LEU	N-CA-C	8.27	123.10	111.52
1	I	507	LEU	N-CA-C	8.27	123.10	111.52
1	B	507	LEU	N-CA-C	8.26	123.08	111.52
1	K	507	LEU	N-CA-C	8.25	123.07	111.52
1	C	160	SER	N-CA-C	-7.99	102.60	113.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	160	SER	N-CA-C	-7.96	102.63	113.30
1	J	160	SER	N-CA-C	-7.96	102.64	113.30
1	F	160	SER	N-CA-C	-7.95	102.65	113.30
1	A	160	SER	N-CA-C	-7.95	102.65	113.30
1	B	160	SER	N-CA-C	-7.93	102.67	113.30
1	E	160	SER	N-CA-C	-7.93	102.67	113.30
1	L	160	SER	N-CA-C	-7.93	102.67	113.30
1	H	160	SER	N-CA-C	-7.93	102.67	113.30
1	K	160	SER	N-CA-C	-7.93	102.67	113.30
1	D	160	SER	N-CA-C	-7.93	102.67	113.30
1	G	160	SER	N-CA-C	-7.92	102.68	113.30
1	D	59	VAL	N-CA-C	7.08	117.84	110.62
1	K	266	ILE	N-CA-C	7.08	117.81	107.75
1	J	266	ILE	N-CA-C	7.08	117.80	107.75
1	C	266	ILE	N-CA-C	7.08	117.80	107.75
1	B	266	ILE	N-CA-C	7.07	117.79	107.75
1	G	266	ILE	N-CA-C	7.07	117.78	107.75
1	E	59	VAL	N-CA-C	7.06	117.82	110.62
1	I	266	ILE	N-CA-C	7.06	117.78	107.75
1	D	266	ILE	N-CA-C	7.06	117.78	107.75
1	A	266	ILE	N-CA-C	7.06	117.77	107.75
1	G	59	VAL	N-CA-C	7.06	117.82	110.62
1	F	266	ILE	N-CA-C	7.04	117.75	107.75
1	H	266	ILE	N-CA-C	7.04	117.75	107.75
1	B	59	VAL	N-CA-C	7.04	117.80	110.62
1	F	59	VAL	N-CA-C	7.04	117.80	110.62
1	E	266	ILE	N-CA-C	7.04	117.74	107.75
1	L	266	ILE	N-CA-C	7.04	117.74	107.75
1	I	59	VAL	N-CA-C	7.03	117.79	110.62
1	A	59	VAL	N-CA-C	7.03	117.79	110.62
1	K	59	VAL	N-CA-C	7.03	117.79	110.62
1	C	59	VAL	N-CA-C	7.02	117.78	110.62
1	D	231	THR	N-CA-C	7.02	121.11	108.48
1	H	59	VAL	N-CA-C	7.02	117.78	110.62
1	B	231	THR	N-CA-C	7.01	121.10	108.48
1	J	231	THR	N-CA-C	7.01	121.09	108.48
1	I	203	ASN	CA-C-N	7.00	126.63	119.56
1	I	203	ASN	C-N-CA	7.00	126.63	119.56
1	I	231	THR	N-CA-C	7.00	121.08	108.48
1	G	231	THR	N-CA-C	7.00	121.08	108.48
1	K	203	ASN	CA-C-N	7.00	126.63	119.56
1	K	203	ASN	C-N-CA	7.00	126.63	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	231	THR	N-CA-C	7.00	121.07	108.48
1	A	231	THR	N-CA-C	6.99	121.07	108.48
1	E	231	THR	N-CA-C	6.99	121.07	108.48
1	F	203	ASN	CA-C-N	6.99	126.62	119.56
1	F	203	ASN	C-N-CA	6.99	126.62	119.56
1	L	231	THR	N-CA-C	6.99	121.06	108.48
1	B	203	ASN	CA-C-N	6.99	126.62	119.56
1	B	203	ASN	C-N-CA	6.99	126.62	119.56
1	F	231	THR	N-CA-C	6.99	121.06	108.48
1	L	59	VAL	N-CA-C	6.99	117.75	110.62
1	J	59	VAL	N-CA-C	6.99	117.75	110.62
1	L	203	ASN	CA-C-N	6.98	126.61	119.56
1	L	203	ASN	C-N-CA	6.98	126.61	119.56
1	A	203	ASN	CA-C-N	6.97	126.60	119.56
1	A	203	ASN	C-N-CA	6.97	126.60	119.56
1	H	231	THR	N-CA-C	6.97	121.03	108.48
1	J	203	ASN	CA-C-N	6.97	126.60	119.56
1	J	203	ASN	C-N-CA	6.97	126.60	119.56
1	G	203	ASN	CA-C-N	6.97	126.59	119.56
1	G	203	ASN	C-N-CA	6.97	126.59	119.56
1	C	231	THR	N-CA-C	6.96	121.02	108.48
1	D	203	ASN	CA-C-N	6.96	126.58	119.56
1	D	203	ASN	C-N-CA	6.96	126.58	119.56
1	H	203	ASN	CA-C-N	6.95	126.58	119.56
1	H	203	ASN	C-N-CA	6.95	126.58	119.56
1	C	203	ASN	CA-C-N	6.95	126.58	119.56
1	C	203	ASN	C-N-CA	6.95	126.58	119.56
1	E	203	ASN	CA-C-N	6.92	126.55	119.56
1	E	203	ASN	C-N-CA	6.92	126.55	119.56
1	E	97	MET	CB-CG-SD	-6.34	93.68	112.70
1	G	97	MET	CB-CG-SD	-6.34	93.67	112.70
1	B	97	MET	CB-CG-SD	-6.34	93.68	112.70
1	A	97	MET	CB-CG-SD	-6.34	93.69	112.70
1	I	97	MET	CB-CG-SD	-6.34	93.69	112.70
1	H	97	MET	CB-CG-SD	-6.33	93.70	112.70
1	K	97	MET	CB-CG-SD	-6.33	93.71	112.70
1	L	97	MET	CB-CG-SD	-6.33	93.71	112.70
1	C	97	MET	CB-CG-SD	-6.33	93.71	112.70
1	D	97	MET	CB-CG-SD	-6.33	93.71	112.70
1	F	97	MET	CB-CG-SD	-6.33	93.72	112.70
1	J	97	MET	CB-CG-SD	-6.33	93.72	112.70
1	H	387	GLN	CA-C-N	6.30	127.71	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	387	GLN	C-N-CA	6.30	127.71	119.84
1	B	387	GLN	CA-C-N	6.28	127.69	119.84
1	B	387	GLN	C-N-CA	6.28	127.69	119.84
1	F	387	GLN	CA-C-N	6.28	127.69	119.84
1	F	387	GLN	C-N-CA	6.28	127.69	119.84
1	D	387	GLN	CA-C-N	6.27	127.68	119.84
1	D	387	GLN	C-N-CA	6.27	127.68	119.84
1	E	387	GLN	CA-C-N	6.27	127.68	119.84
1	E	387	GLN	C-N-CA	6.27	127.68	119.84
1	A	387	GLN	CA-C-N	6.27	127.67	119.84
1	A	387	GLN	C-N-CA	6.27	127.67	119.84
1	J	387	GLN	CA-C-N	6.26	127.66	119.84
1	J	387	GLN	C-N-CA	6.26	127.66	119.84
1	I	387	GLN	CA-C-N	6.25	127.66	119.84
1	I	387	GLN	C-N-CA	6.25	127.66	119.84
1	K	387	GLN	CA-C-N	6.25	127.66	119.84
1	K	387	GLN	C-N-CA	6.25	127.66	119.84
1	G	387	GLN	CA-C-N	6.25	127.65	119.84
1	G	387	GLN	C-N-CA	6.25	127.65	119.84
1	C	387	GLN	CA-C-N	6.25	127.65	119.84
1	C	387	GLN	C-N-CA	6.25	127.65	119.84
1	L	387	GLN	CA-C-N	6.25	127.65	119.84
1	L	387	GLN	C-N-CA	6.25	127.65	119.84
1	I	237	ASP	CA-C-N	6.10	125.72	119.56
1	I	237	ASP	C-N-CA	6.10	125.72	119.56
1	C	237	ASP	CA-C-N	6.10	125.72	119.56
1	C	237	ASP	C-N-CA	6.10	125.72	119.56
1	D	237	ASP	CA-C-N	6.10	125.72	119.56
1	D	237	ASP	C-N-CA	6.10	125.72	119.56
1	H	237	ASP	CA-C-N	6.09	125.72	119.56
1	H	237	ASP	C-N-CA	6.09	125.72	119.56
1	J	237	ASP	CA-C-N	6.08	125.70	119.56
1	J	237	ASP	C-N-CA	6.08	125.70	119.56
1	B	237	ASP	CA-C-N	6.07	125.69	119.56
1	B	237	ASP	C-N-CA	6.07	125.69	119.56
1	A	237	ASP	CA-C-N	6.06	125.68	119.56
1	A	237	ASP	C-N-CA	6.06	125.68	119.56
1	E	237	ASP	CA-C-N	6.05	125.68	119.56
1	E	237	ASP	C-N-CA	6.05	125.68	119.56
1	F	237	ASP	CA-C-N	6.04	125.66	119.56
1	F	237	ASP	C-N-CA	6.04	125.66	119.56
1	L	237	ASP	CA-C-N	6.04	125.66	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	237	ASP	C-N-CA	6.04	125.66	119.56
1	K	237	ASP	CA-C-N	6.02	125.64	119.56
1	K	237	ASP	C-N-CA	6.02	125.64	119.56
1	G	237	ASP	CA-C-N	6.01	125.63	119.56
1	G	237	ASP	C-N-CA	6.01	125.63	119.56
1	D	198	ILE	CA-C-N	5.85	127.24	120.98
1	D	198	ILE	C-N-CA	5.85	127.24	120.98
1	F	198	ILE	CA-C-N	5.83	127.21	120.98
1	F	198	ILE	C-N-CA	5.83	127.21	120.98
1	A	198	ILE	CA-C-N	5.82	127.21	120.98
1	A	198	ILE	C-N-CA	5.82	127.21	120.98
1	G	198	ILE	CA-C-N	5.82	127.20	120.98
1	G	198	ILE	C-N-CA	5.82	127.20	120.98
1	C	198	ILE	CA-C-N	5.81	127.19	120.98
1	C	198	ILE	C-N-CA	5.81	127.19	120.98
1	C	74	ASN	CA-C-N	5.81	127.10	119.84
1	C	74	ASN	C-N-CA	5.81	127.10	119.84
1	E	198	ILE	CA-C-N	5.81	127.19	120.98
1	E	198	ILE	C-N-CA	5.81	127.19	120.98
1	J	198	ILE	CA-C-N	5.80	127.19	120.98
1	J	198	ILE	C-N-CA	5.80	127.19	120.98
1	B	74	ASN	CA-C-N	5.80	127.09	119.84
1	B	74	ASN	C-N-CA	5.80	127.09	119.84
1	E	74	ASN	CA-C-N	5.80	127.09	119.84
1	E	74	ASN	C-N-CA	5.80	127.09	119.84
1	L	198	ILE	CA-C-N	5.80	127.19	120.98
1	L	198	ILE	C-N-CA	5.80	127.19	120.98
1	K	198	ILE	CA-C-N	5.79	127.18	120.98
1	K	198	ILE	C-N-CA	5.79	127.18	120.98
1	G	74	ASN	CA-C-N	5.79	127.08	119.84
1	G	74	ASN	C-N-CA	5.79	127.08	119.84
1	B	198	ILE	CA-C-N	5.79	127.17	120.98
1	B	198	ILE	C-N-CA	5.79	127.17	120.98
1	E	232	ALA	N-CA-C	5.79	123.13	110.80
1	H	198	ILE	CA-C-N	5.79	127.17	120.98
1	H	198	ILE	C-N-CA	5.79	127.17	120.98
1	H	232	ALA	N-CA-C	5.79	123.13	110.80
1	I	198	ILE	CA-C-N	5.79	127.17	120.98
1	I	198	ILE	C-N-CA	5.79	127.17	120.98
1	H	74	ASN	CA-C-N	5.79	127.07	119.84
1	H	74	ASN	C-N-CA	5.79	127.07	119.84
1	A	74	ASN	CA-C-N	5.78	127.07	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	74	ASN	C-N-CA	5.78	127.07	119.84
1	F	74	ASN	CA-C-N	5.78	127.07	119.84
1	F	74	ASN	C-N-CA	5.78	127.07	119.84
1	I	232	ALA	N-CA-C	5.78	123.10	110.80
1	K	232	ALA	N-CA-C	5.78	123.11	110.80
1	D	232	ALA	N-CA-C	5.77	123.10	110.80
1	A	232	ALA	N-CA-C	5.77	123.09	110.80
1	L	74	ASN	CA-C-N	5.77	127.06	119.84
1	L	74	ASN	C-N-CA	5.77	127.06	119.84
1	G	232	ALA	N-CA-C	5.77	123.09	110.80
1	J	74	ASN	CA-C-N	5.77	127.05	119.84
1	J	74	ASN	C-N-CA	5.77	127.05	119.84
1	J	232	ALA	N-CA-C	5.76	123.08	110.80
1	K	74	ASN	CA-C-N	5.76	127.04	119.84
1	K	74	ASN	C-N-CA	5.76	127.04	119.84
1	C	232	ALA	N-CA-C	5.76	123.07	110.80
1	I	74	ASN	CA-C-N	5.76	127.04	119.84
1	I	74	ASN	C-N-CA	5.76	127.04	119.84
1	F	232	ALA	N-CA-C	5.76	123.06	110.80
1	L	232	ALA	N-CA-C	5.75	123.05	110.80
1	B	232	ALA	N-CA-C	5.75	123.04	110.80
1	D	74	ASN	CA-C-N	5.73	127.00	119.84
1	D	74	ASN	C-N-CA	5.73	127.00	119.84
1	E	281	ILE	N-CA-C	5.58	115.72	108.35
1	L	281	ILE	N-CA-C	5.57	115.70	108.35
1	K	281	ILE	N-CA-C	5.56	115.69	108.35
1	F	281	ILE	N-CA-C	5.55	115.68	108.35
1	B	281	ILE	N-CA-C	5.55	115.68	108.35
1	D	281	ILE	N-CA-C	5.55	115.68	108.35
1	A	281	ILE	N-CA-C	5.55	115.67	108.35
1	H	281	ILE	N-CA-C	5.54	115.67	108.35
1	C	281	ILE	N-CA-C	5.52	115.64	108.35
1	J	281	ILE	N-CA-C	5.52	115.64	108.35
1	I	281	ILE	N-CA-C	5.51	115.63	108.35
1	G	281	ILE	N-CA-C	5.51	115.62	108.35
1	L	17	ALA	N-CA-C	-5.49	107.59	114.56
1	C	271	ILE	N-CA-C	5.47	116.16	108.17
1	K	17	ALA	N-CA-C	-5.47	107.62	114.56
1	D	271	ILE	N-CA-C	5.46	116.15	108.17
1	L	271	ILE	N-CA-C	5.46	116.15	108.17
1	B	271	ILE	N-CA-C	5.46	116.14	108.17
1	E	271	ILE	N-CA-C	5.46	116.14	108.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	17	ALA	N-CA-C	-5.46	107.62	114.56
1	J	271	ILE	N-CA-C	5.46	116.14	108.17
1	K	271	ILE	N-CA-C	5.46	116.14	108.17
1	C	17	ALA	N-CA-C	-5.46	107.63	114.56
1	D	17	ALA	N-CA-C	-5.46	107.63	114.56
1	E	17	ALA	N-CA-C	-5.46	107.63	114.56
1	I	17	ALA	N-CA-C	-5.46	107.63	114.56
1	J	17	ALA	N-CA-C	-5.46	107.63	114.56
1	A	17	ALA	N-CA-C	-5.45	107.63	114.56
1	A	271	ILE	N-CA-C	5.45	116.13	108.17
1	F	271	ILE	N-CA-C	5.45	116.13	108.17
1	I	271	ILE	N-CA-C	5.45	116.13	108.17
1	B	17	ALA	N-CA-C	-5.44	107.65	114.56
1	H	17	ALA	N-CA-C	-5.44	107.65	114.56
1	H	271	ILE	N-CA-C	5.44	116.11	108.17
1	G	17	ALA	N-CA-C	-5.43	107.67	114.56
1	G	271	ILE	N-CA-C	5.43	116.10	108.17
1	G	577	ILE	CB-CA-C	-5.31	104.97	112.14
1	B	577	ILE	CB-CA-C	-5.30	104.98	112.14
1	C	577	ILE	CB-CA-C	-5.30	104.98	112.14
1	J	577	ILE	CB-CA-C	-5.30	104.99	112.14
1	F	577	ILE	CB-CA-C	-5.29	104.99	112.14
1	I	577	ILE	CB-CA-C	-5.29	105.00	112.14
1	D	577	ILE	CB-CA-C	-5.28	105.01	112.14
1	L	577	ILE	CB-CA-C	-5.28	105.02	112.14
1	E	577	ILE	CB-CA-C	-5.27	105.02	112.14
1	A	577	ILE	CB-CA-C	-5.26	105.03	112.14
1	K	577	ILE	CB-CA-C	-5.26	105.04	112.14
1	H	577	ILE	CB-CA-C	-5.25	105.06	112.14
1	J	35	PHE	N-CA-C	-5.07	105.83	111.36
1	G	35	PHE	N-CA-C	-5.07	105.84	111.36
1	I	367	ASP	N-CA-C	-5.06	106.95	112.72
1	D	35	PHE	N-CA-C	-5.05	105.86	111.36
1	E	35	PHE	N-CA-C	-5.05	105.86	111.36
1	I	35	PHE	N-CA-C	-5.05	105.86	111.36
1	B	35	PHE	N-CA-C	-5.05	105.86	111.36
1	C	35	PHE	N-CA-C	-5.05	105.86	111.36
1	F	35	PHE	N-CA-C	-5.04	105.86	111.36
1	F	367	ASP	N-CA-C	-5.04	106.97	112.72
1	G	367	ASP	N-CA-C	-5.04	106.97	112.72
1	L	35	PHE	N-CA-C	-5.04	105.86	111.36
1	A	35	PHE	N-CA-C	-5.04	105.87	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	58	ASP	N-CA-C	5.04	118.34	111.39
1	E	58	ASP	N-CA-C	5.04	118.34	111.39
1	B	58	ASP	N-CA-C	5.03	118.34	111.39
1	E	367	ASP	N-CA-C	-5.03	106.98	112.72
1	G	58	ASP	N-CA-C	5.03	118.34	111.39
1	J	58	ASP	N-CA-C	5.03	118.33	111.39
1	D	367	ASP	N-CA-C	-5.03	106.99	112.72
1	A	367	ASP	N-CA-C	-5.03	106.99	112.72
1	H	367	ASP	N-CA-C	-5.02	107.00	112.72
1	K	35	PHE	N-CA-C	-5.02	105.89	111.36
1	K	58	ASP	N-CA-C	5.02	118.31	111.39
1	C	367	ASP	N-CA-C	-5.01	107.00	112.72
1	H	35	PHE	N-CA-C	-5.01	105.89	111.36
1	A	58	ASP	N-CA-C	5.01	118.31	111.39
1	K	367	ASP	N-CA-C	-5.01	107.01	112.72
1	F	58	ASP	N-CA-C	5.01	118.30	111.39
1	I	58	ASP	N-CA-C	5.00	118.30	111.39
1	L	367	ASP	N-CA-C	-5.00	107.02	112.72

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	578	9
1	B	5126	0	4586	547	0
1	C	5126	0	4586	529	0
1	D	5126	0	4586	588	0
1	E	5126	0	4586	577	8
1	F	5126	0	4586	552	1
1	G	5126	0	4586	569	0
1	H	5126	0	4586	542	3
1	I	5126	0	4586	548	0
1	J	5126	0	4586	544	3
1	K	5126	0	4586	538	0
1	L	5126	0	4586	568	0
All	All	61512	0	55032	6108	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 52.

All (6108) 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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:A:554:LEU:HD21	1:B:564:GLY:HA2	1.35	1.05
1:I:89:ASP:HA	1:J:561:ASP:HB2	1.37	1.05
1:G:82:PRO:HD2	1:H:560:LEU:HD13	1.38	1.04
1:C:554:LEU:HD21	1:D:564:GLY:HA2	1.40	1.03
1:E:322:LEU:CD1	1:F:58:ASP:OD2	2.05	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:F:77:ASP:HB2	1:F:523:SER:HA	1.40	1.02
1:J:77:ASP:HB2	1:J: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:H:236:GLN:HB2	1:H:265:LYS:HZ3	1.27	1.00
1:A:236:GLN:HB2	1:A:265:LYS:HZ3	1.27	0.99
1:E:77:ASP:HB2	1:E:523:SER:HA	1.40	0.99
1:G:77:ASP:HB2	1:G: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:I:236:GLN:HB2	1:I:265:LYS:HZ3	1.27	0.99
1:L:236:GLN:HB2	1:L:265:LYS:HZ3	1.27	0.99
1:F:554:LEU:HD21	1:G:564:GLY:HA2	1.45	0.99
1:C:236:GLN:HB2	1:C:265:LYS:HZ3	1.28	0.98
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:59:VAL:O	1:F:62:PRO:HD2	1.64	0.98
1:B:236:GLN:HB2	1:B:265:LYS:HZ3	1.27	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:A:78:VAL:HG21	1:A:444:LEU:HD11	1.46	0.97
1:G:236:GLN:HB2	1:G:265:LYS:HZ3	1.30	0.97
1:K:78:VAL:HG21	1:K:444:LEU:HD11	1.46	0.97
1:C:59:VAL:O	1:C:62:PRO:HD2	1.64	0.97
1:G:89:ASP:HA	1:H:561:ASP:HB2	1.40	0.97
1:B:59:VAL:O	1:B:62:PRO:HD2	1.64	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:J:236:GLN:HB2	1:J:265:LYS:HZ3	1.27	0.96
1:A:59:VAL:O	1:A:62:PRO:HD2	1.64	0.96
1:E:59:VAL:O	1:E: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: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:A:82:PRO:HD2	1:B:560:LEU:HD13	1.48	0.95
1:B:78:VAL:HG21	1:B:444:LEU:HD11	1.46	0.95
1:I:14:ARG:HA	1:I:14:ARG:HE	1.31	0.95
1:J:26:ARG:HG2	1:K:212:LEU:HD22	1.46	0.95
1:L:78:VAL:HG21	1:L:444:LEU:HD11	1.46	0.95
1:E:236:GLN:HB2	1:E:265:LYS:HZ3	1.28	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:D:236:GLN:HB2	1:D:265:LYS:HZ3	1.31	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:236:GLN:HB2	1:K:265:LYS:HZ3	1.29	0.94
1:C:546:THR:HG23	1:C:547:PRO:HD3	1.48	0.94
1:E:14:ARG:HA	1:E:14:ARG:HE	1.31	0.94
1:J:14:ARG:HA	1:J:14:ARG:HE	1.31	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:H:14:ARG:HE	1:H:14:ARG:HA	1.31	0.94
1:H:546:THR:HG23	1:H:547:PRO:HD3	1.48	0.94
1:J:89:ASP:HA	1:K:561:ASP:HB2	1.50	0.94
1:C:11:ILE:HD12	1:C:285:ALA:HA	1.50	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:K:14:ARG:HA	1:K:14:ARG:HE	1.31	0.93
1:G:14:ARG:HA	1:G:14:ARG:HE	1.31	0.93
1:A:11:ILE:HD12	1:A:285:ALA:HA	1.50	0.93
1:G:11:ILE:HD12	1:G:285:ALA:HA	1.50	0.93
1:G:82:PRO:HG2	1:H:560:LEU:HD22	1.50	0.93
1:D:546:THR:HG23	1:D:547:PRO:HD3	1.48	0.93
1:J:11:ILE:HD12	1:J:285:ALA:HA	1.50	0.93
1:L:14:ARG:HA	1:L:14:ARG:HE	1.31	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: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:HA	1:D:14:ARG:HE	1.31	0.92
1:F:236:GLN:HB2	1:F:265:LYS:HZ3	1.30	0.92
1:B:82:PRO:HD2	1:C:560:LEU:HD13	1.52	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:E:511:ARG:HA	1:E:513:ARG:HD2	1.52	0.91
1:I:511:ARG:HA	1:I: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:HB3	1:G:37:ARG:HH21	1.36	0.91
1:C:511:ARG:HA	1:C:513:ARG:HD2	1.52	0.91
1:E:82:PRO:HD2	1:F:560:LEU:HD13	1.52	0.91
1:I:546:THR:HG23	1:I:547:PRO:HD3	1.48	0.91
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:J:554:LEU:HD21	1:K:564:GLY:HA2	1.52	0.91
1:H:11:ILE:HD12	1:H:285:ALA:HA	1.50	0.91
1:C:14:ARG:HA	1:C:14:ARG:HE	1.31	0.91
1:D:401:ASN:OD1	1:E:341:VAL:HG13	1.70	0.91
1:G:26:ARG:HG2	1:H:212:LEU:HD22	1.53	0.91
1:C:37:ARG:HB3	1:C:37:ARG:HH21	1.36	0.90
1:D:37:ARG:HB3	1:D:37:ARG:HH21	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: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:G:77:ASP:HB2	1:G:523:SER:CA	2.02	0.90
1:F:11:ILE:HD12	1:F:285:ALA:HA	1.50	0.90
1:F:37:ARG:HB3	1:F:37:ARG:HH21	1.36	0.90
1:B:37:ARG:HH21	1:B:37:ARG:HB3	1.36	0.90
1:D:77:ASP:HB2	1:D:523:SER:CA	2.02	0.90
1:I:37:ARG:HB3	1:I:37:ARG:HH21	1.36	0.90
1:A:37:ARG:HB3	1:A:37:ARG:HH21	1.36	0.90
1:H:37:ARG:HH21	1:H:37:ARG:HB3	1.36	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:L:77:ASP:HB2	1:L:523:SER:CA	2.02	0.90
1:B:77:ASP:HB2	1:B:523:SER:CA	2.01	0.90
1:C:77:ASP:HB2	1:C:523:SER:CA	2.02	0.89
1:G:511:ARG:HA	1:G:513:ARG:HD2	1.52	0.89
1:I:34:PHE:HZ	1:I:328:ARG:HH22	1.19	0.89
1:J:77:ASP:HB2	1:J:523:SER:CA	2.01	0.89
1:K:37:ARG:HB3	1:K:37:ARG:HH21	1.36	0.89
1:K:77:ASP:HB2	1:K:523:SER:CA	2.02	0.89
1:G:248:LYS:HZ2	1:G:251:ILE:HD12	1.37	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:E:37:ARG:HH21	1:E:37:ARG:HB3	1.36	0.89
1:F:77:ASP:HB2	1:F:523:SER:CA	2.02	0.89
1:F:248:LYS:HZ2	1:F:251:ILE:HD12	1.38	0.89
1:I:77:ASP:HB2	1:I:523:SER:CA	2.02	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:J:210:PRO:HD2	1:J:211:TRP:CZ3	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:C:34:PHE:HZ	1:C:328:ARG:HH22	1.19	0.89
1:H:77:ASP:HB2	1:H:523:SER:CA	2.02	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:D:378:ASP:OD2	1:E:376:ARG:NH2	2.06	0.88
1:D:390:ALA:CB	1:E:387:GLN:HB2	2.04	0.88
1:E:26:ARG:HG2	1:F:212:LEU:HD22	1.55	0.88
1:E:210:PRO:HD2	1:E:211:TRP:CZ3	2.08	0.88
1:F:25:ALA:O	1:F:29:ALA:HB3	1.74	0.88
1:G:89:ASP:HA	1:H:561:ASP:CB	2.03	0.88
1:J:577:ILE:HG12	1:J:582:LYS:HG2	1.56	0.88
1:B:34:PHE:HZ	1:B:328:ARG:HH22	1.19	0.88
1:G:210:PRO:HD2	1:G:211:TRP:CZ3	2.08	0.88
1:L:25:ALA:O	1:L:29:ALA:HB3	1.73	0.88
1:D:34:PHE:HZ	1:D:328:ARG:HH22	1.19	0.88
1:D:411:ALA:HB1	1:E:57:PHE:HD1	1.37	0.88
1:K:210:PRO:HD2	1:K:211:TRP:CZ3	2.08	0.88
1:C:210:PRO:HD2	1:C:211:TRP:CZ3	2.08	0.88
1:L:210:PRO:HD2	1:L:211:TRP:CZ3	2.08	0.88
1:D:554:LEU:HD22	1:E:567:MET:HE2	1.55	0.88
1:E:34:PHE:HZ	1:E:328:ARG:HH22	1.19	0.88
1:J:34:PHE:HZ	1:J:328:ARG:HH22	1.19	0.88
1:K:25:ALA:O	1:K:29:ALA:HB3	1.73	0.88
1:K:427:GLY:HA3	1:K:429:GLN:HE22	1.39	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:C:25:ALA:O	1:C:29:ALA:HB3	1.73	0.88
1:H:210:PRO:HD2	1:H:211:TRP:CZ3	2.08	0.88
1:I:210:PRO:HD2	1:I:211:TRP:CZ3	2.08	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:L:587:PRO:HD2	1:L:589:GLU:HG3	1.56	0.88
1:E:587:PRO:HD2	1:E:589:GLU:HG3	1.56	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:138:THR:HG23	1:E:143:VAL:HG22	1.56	0.87
1:E:577:ILE:HG12	1:E:582:LYS:HG2	1.56	0.87
1:I:577:ILE:HG12	1:I:582:LYS:HG2	1.56	0.87
1:J:138:THR:H	1:J:143:VAL:HG22	1.37	0.87
1:A:25:ALA:O	1:A:29:ALA:HB3	1.73	0.87
1:C:577:ILE:HG12	1:C:582:LYS:HG2	1.56	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:L:427:GLY:HA3	1:L:429:GLN:HE22	1.39	0.87
1:H:25:ALA:O	1:H:29:ALA:HB3	1.73	0.87
1:B:138:THR:HG23	1:B:143:VAL:HG22	1.56	0.87
1:E:25:ALA:O	1:E:29:ALA:HB3	1.74	0.87
1:L:138:THR:H	1:L:143:VAL:HG22	1.37	0.87
1:D:25:ALA:O	1:D:29:ALA:HB3	1.73	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: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:A:587:PRO:HD2	1:A:589:GLU:HG3	1.56	0.86
1:G:427:GLY:HA3	1:G:429:GLN:HE22	1.39	0.86
1:H:144:ILE:HG12	1:H:447:TYR:HE1	1.40	0.86
1:I:587:PRO:HD2	1:I:589:GLU:HG3	1.56	0.86
1:J:427:GLY:HA3	1:J:429:GLN:HE22	1.39	0.86
1:L:577:ILE:HG12	1:L:582:LYS:HG2	1.56	0.86
1:A:138:THR:H	1:A:143:VAL:HG22	1.37	0.86
1:B:25:ALA:O	1:B:29:ALA:HB3	1.74	0.86
1:C:144:ILE:HG12	1:C:447:TYR:HE1	1.40	0.86
1:D:427:GLY:HA3	1:D:429:GLN:HE22	1.39	0.86
1:G:25:ALA:O	1:G:29:ALA:HB3	1.73	0.86
1:L:144:ILE:HG12	1:L:447:TYR:HE1	1.40	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:34:PHE:HZ	1:H:328:ARG:HH22	1.19	0.86
1:H:427:GLY:HA3	1:H:429:GLN:HE22	1.39	0.86
1:A:427:GLY:HA3	1:A:429:GLN:HE22	1.39	0.86
1:F:27:ARG:CZ	1:G:211:TRP:HB3	2.05	0.86
1:G:138:THR:H	1:G:143:VAL:HG22	1.37	0.86
1:I:138:THR:H	1:I:143:VAL:HG22	1.37	0.86
1:A:57:PHE:HD1	1:L:411:ALA:HB1	1.38	0.86

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:F:587:PRO:HD2	1:F:589:GLU:HG3	1.56	0.84
1:J:144:ILE:HG12	1:J:447:TYR:HE1	1.40	0.84
1:D:248:LYS:HZ2	1:D:251:ILE:HD12	1.42	0.84
1:G:413:LYS:HA	1:G:416:ALA:HB3	1.60	0.84
1:C:248:LYS:HZ2	1:C:251:ILE:HD12	1.41	0.84
1:G:41:TRP:CE3	1:G:42:ASP:O	2.31	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: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:K:413:LYS:HA	1:K:416:ALA:HB3	1.60	0.84
1:L:99:ARG:NH1	1:L:524:PHE:HB2	1.93	0.84
1:A:99:ARG:NH1	1:A:524:PHE:HB2	1.93	0.84
1:D:41:TRP:CE3	1:D:42:ASP:O	2.31	0.84
1:F:427:GLY:HA3	1:F:429:GLN:HE22	1.39	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:A:41:TRP:CE3	1:A:42:ASP:O	2.31	0.83
1:A:66:LYS:HZ3	1:A:420:VAL:HG21	1.42	0.83
1:E:41:TRP:CE3	1:E:42:ASP:O	2.31	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:HA	1:F:14:ARG:NE	1.93	0.83
1:F:99:ARG:NH1	1:F:524:PHE:HB2	1.93	0.83
1:B:41:TRP:CE3	1:B:42:ASP:O	2.31	0.83
1:B:248:LYS:HZ2	1:B:251:ILE:HD12	1.41	0.83
1:D:99:ARG:NH1	1:D:524:PHE:HB2	1.93	0.83
1:D:411:ALA:CB	1:E:57:PHE:CD1	2.61	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:144:ILE:HG12	1:F:447:TYR:HE1	1.40	0.83
1:C:82:PRO:HD2	1:D:560:LEU:HD13	1.61	0.83
1:D:26:ARG:HG2	1:E:212:LEU:HD22	1.59	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:G:236:GLN:CB	1:G:265:LYS:HZ3	1.92	0.82
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:C:99:ARG:NH1	1:C:524:PHE:HB2	1.93	0.82
1:D:236:GLN:CB	1:D:265:LYS:HZ3	1.92	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:F:236:GLN:CB	1:F:265:LYS:HZ3	1.92	0.82
1:K:236:GLN:CB	1:K:265:LYS:HZ3	1.92	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:I:236:GLN:CB	1:I:265:LYS:HZ3	1.93	0.82
1:A:235:TYR:HA	1:A:265:LYS:HB3	1.62	0.82
1:A:413:LYS:HA	1:A:416:ALA:HB3	1.60	0.82
1:C:14:ARG:HA	1:C:14:ARG:NE	1.93	0.82
1:L:413:LYS:HA	1:L:416:ALA:HB3	1.60	0.82
1:D:14:ARG:HA	1:D:14:ARG:NE	1.93	0.81
1:E:236:GLN:CB	1:E:265:LYS:HZ3	1.92	0.81
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:B:34:PHE:HE2	1:B:45:LEU:HG	1.45	0.81
1:C:236:GLN:CB	1:C:265:LYS:HZ3	1.92	0.81
1:E:235:TYR:HA	1:E:265:LYS:HB3	1.62	0.81
1:G:34:PHE:HE2	1:G: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:H:34:PHE:HE2	1:H:45:LEU:HG	1.45	0.81
1:L:235:TYR:HA	1:L:265:LYS:HB3	1.62	0.81
1:A:236:GLN:CB	1:A:265:LYS:HZ3	1.93	0.81
1:K:322:LEU:CD1	1:L:58:ASP:OD2	2.27	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:236:GLN:CB	1:L:265:LYS:HZ3	1.93	0.81
1:I:34:PHE:HE2	1:I:45:LEU:HG	1.45	0.81
1:K:14:ARG:HA	1:K:14:ARG:NE	1.93	0.81
1:J:235:TYR:HA	1:J:265:LYS:HB3	1.62	0.81
1:J:236:GLN:CB	1:J:265:LYS:HZ3	1.94	0.81
1:A:56:GLN:HE21	1:A:58:ASP:HB2	1.46	0.81
1:B:236:GLN:CB	1:B:265:LYS:HZ3	1.93	0.81
1:G:14:ARG:HA	1:G:14:ARG:NE	1.93	0.81
1:G:89:ASP:CA	1:H:561:ASP:HB2	2.11	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
1:A:89:ASP:HA	1:B:561:ASP:HB2	1.61	0.81
1:I:89:ASP:HA	1:J:561:ASP:CB	2.10	0.81
1:L:14:ARG:HA	1:L:14:ARG:NE	1.93	0.81
1:H:554:LEU:HD21	1:I:564:GLY:HA2	1.63	0.80
1:I:56:GLN:HE21	1:I:58:ASP:HB2	1.46	0.80
1:C:235:TYR:HA	1:C:265:LYS:HB3	1.62	0.80
1:C:34:PHE:HE2	1:C:45:LEU:HG	1.45	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: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:235:TYR:HA	1:F:265:LYS:HB3	1.62	0.80
1:J:248:LYS:HZ2	1:J:251:ILE:HD12	1.46	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:A:212:LEU:HD22	1:L:26:ARG:HG2	1.64	0.80
1:K:34:PHE:O	1:K:37:ARG:HB2	1.82	0.80
1:L:49:THR:O	1:L:49:THR:HG22	1.82	0.80
1:D:56:GLN:HE21	1:D:58:ASP:HB2	1.46	0.80
1:D:66:LYS:HZ3	1:D:420:VAL:HG11	1.46	0.80
1:D:325:ASP:OD2	1:E:56:GLN:HB2	1.80	0.80
1:E:14:ARG:HA	1:E:14:ARG:NE	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:B:34:PHE:O	1:B:37:ARG:HB2	1.82	0.80
1:E:89:ASP:HA	1:F:561:ASP:HB2	1.64	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:HG22	1:H:49:THR:O	1.82	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:158:TRP:HB3	1:B:173:CYS:HA	1.65	0.79
1:E:56:GLN:HE21	1:E:58:ASP:HB2	1.46	0.79
1:C:158:TRP:HB3	1:C: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:A:400:ALA:CB	1:B:395:PRO:HB2	2.12	0.79
1:F:322:LEU:HD11	1:G:58:ASP:OD2	1.83	0.79
1:I:325:ASP:OD2	1:J:56:GLN:HB2	1.81	0.79
1:J:49:THR:HG22	1:J:49:THR:O	1.82	0.79
1:J:56:GLN:HE21	1:J:58:ASP:HB2	1.46	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
1:A:34:PHE:HE2	1:A:45:LEU:HG	1.45	0.79
1:D:34:PHE:HE2	1:D:45:LEU:HG	1.45	0.79
1:G:49:THR:O	1:G:49:THR:HG22	1.82	0.79
1:I:37:ARG:HB3	1:I:37:ARG:NH2	1.98	0.79
1:J:37:ARG:HB3	1:J:37:ARG:NH2	1.98	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:F:158:TRP:HB3	1:F:173:CYS:HA	1.64	0.79
1:H:236:GLN:CB	1:H:265:LYS:HZ3	1.96	0.79
1:L:34:PHE:O	1:L:37:ARG:HB2	1.82	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:B:49:THR:HG22	1:B:49:THR:O	1.82	0.79
1:G:37:ARG:HB3	1:G:37:ARG:NH2	1.98	0.79
1:H:158:TRP:HB3	1:H:173:CYS:HA	1.65	0.79
1:L:56:GLN:HE21	1:L:58:ASP:HB2	1.46	0.79
1:D:34:PHE:O	1:D:37:ARG:HB2	1.82	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:K:158:TRP:HB3	1:K:173:CYS:HA	1.65	0.79
1:A:158:TRP:HB3	1:A:173:CYS:HA	1.65	0.78
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:L:165:MET:HE1	1:L:435:VAL:HB	1.65	0.78
1:D:45:LEU:HD21	1:D:328:ARG:HH21	1.49	0.78
1:I:49:THR:O	1:I:49:THR:HG22	1.82	0.78
1:K:27:ARG:HG2	1:L:212:LEU:HD13	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:C:165:MET:HE1	1:C:435:VAL:HB	1.65	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:H:56:GLN:HE21	1:H:58:ASP:HB2	1.46	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:B:506:VAL:HG12	1:B:507:LEU:HG	1.65	0.78
1:E:379:GLU:O	1:E:380:ASN:HB2	1.84	0.78
1:H:37:ARG:HB3	1:H:37:ARG:NH2	1.98	0.78
1:K:45:LEU:HD21	1:K:328:ARG:HH21	1.49	0.78
1:D:158:TRP:HB3	1:D:173:CYS:HA	1.65	0.78
1:G:434:THR:HG21	1:H:72:ARG:HG2	1.65	0.78
1:I:165:MET:HE1	1:I:435:VAL:HB	1.65	0.78
1:D:49:THR:O	1:D:49:THR:HG22	1.82	0.78
1:F:34:PHE:O	1:F:37:ARG:HB2	1.82	0.78
1:J:165:MET:HE1	1:J:435:VAL:HB	1.65	0.78
1:L:158:TRP:HB3	1:L:173:CYS:HA	1.65	0.78
1:A:49:THR:O	1:A:49:THR:HG22	1.82	0.78
1:C:37:ARG:HB3	1:C:37:ARG:NH2	1.98	0.78
1:C:49:THR:O	1:C:49:THR:HG22	1.82	0.78
1:D:37:ARG:HB3	1:D:37:ARG:NH2	1.98	0.78
1:G:56:GLN:HE21	1:G:58:ASP:HB2	1.46	0.78
1:H:379:GLU:O	1:H:380:ASN:HB2	1.84	0.78
1:J:506:VAL:HG12	1:J:507:LEU:HG	1.65	0.78
1:C:66:LYS:HZ3	1:C:420:VAL:HG21	1.49	0.78
1:E:37:ARG:HB3	1:E:37:ARG:NH2	1.98	0.78
1:F:34:PHE:HE2	1:F:45:LEU:HG	1.45	0.78
1:H:165:MET:HE1	1:H:435:VAL:HB	1.65	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:E:158:TRP:HB3	1:E:173:CYS:HA	1.65	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: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:H:56:GLN:NE2	1:H:58:ASP:HB2	1.99	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:165:MET:HE1	1:E:435:VAL:HB	1.65	0.77
1:G:427:GLY:HA3	1:G:429:GLN:NE2	1.99	0.77
1:I:26:ARG:HG2	1:J:212:LEU:HD22	1.66	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:A:57:PHE:CD1	1:L:411:ALA:HB1	2.20	0.77
1:E:45:LEU:HD21	1:E:328:ARG:HH21	1.49	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:A:506:VAL:HG12	1:A:507:LEU:HG	1.65	0.77
1:B:379:GLU:O	1:B:380:ASN:HB2	1.84	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:K:379:GLU:O	1:K:380:ASN:HB2	1.84	0.77
1:L:506:VAL:HG12	1:L:507:LEU:HG	1.65	0.77
1:E:56:GLN:NE2	1:E:58:ASP:HB2	1.99	0.77
1:F:506:VAL:HG12	1:F:507:LEU:HG	1.65	0.77
1:K:56:GLN:NE2	1:K:58:ASP:HB2	1.99	0.77
1:L:227:GLU:HA	1:L:274:ARG:HA	1.67	0.77
1:B:45:LEU:HD21	1:B:328:ARG:HH21	1.49	0.77
1:B:165:MET:HE1	1:B:435:VAL:HB	1.65	0.77
1:G:165:MET:HE1	1:G:435:VAL:HB	1.65	0.77
1:K:227:GLU:HA	1:K:274:ARG:HA	1.67	0.77
1:A:56:GLN:NE2	1:A:58:ASP:HB2	1.99	0.77
1:A:209:PHE:N	1:A:210:PRO:HD3	2.00	0.77
1:A:348:LYS:HB3	1:B:371:TYR:HA	1.67	0.77
1:B:56:GLN:NE2	1:B:58:ASP:HB2	1.99	0.77
1:D:165:MET:HE1	1:D:435:VAL:HB	1.65	0.77
1:F:35:PHE:C	1:F:37:ARG:H	1.93	0.77
1:H:427:GLY:HA3	1:H:429:GLN:NE2	1.99	0.77
1:J:35:PHE:C	1:J:37:ARG:H	1.93	0.77
1:J:322:LEU:HD11	1:K:58:ASP:OD2	1.79	0.77
1:K:37:ARG:HB3	1:K:37:ARG:NH2	1.98	0.77
1:A:165:MET:HE1	1:A:435:VAL:HB	1.65	0.77
1:A:427:GLY:HA3	1:A:429:GLN:NE2	1.99	0.77
1:C:227:GLU:HA	1:C:274:ARG:HA	1.67	0.77
1:D:348:LYS:HB2	1:E:372:TYR:CD2	2.19	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:379:GLU:O	1:F:380:ASN:HB2	1.84	0.77
1:F:577:ILE:HA	1:F:582:LYS:HB3	1.67	0.77
1:G:56:GLN:NE2	1:G:58:ASP:HB2	1.99	0.77
1:H:506:VAL:HG12	1:H:507:LEU:HG	1.65	0.77
1:A:45:LEU:HD21	1:A:328:ARG:HH21	1.49	0.77
1:F:37:ARG:HB3	1:F:37:ARG:NH2	1.98	0.77
1:G:45:LEU:HD21	1:G:328:ARG:HH21	1.49	0.77
1:G:66:LYS:HZ3	1:G:420:VAL:HG21	1.49	0.77
1:H:209:PHE:N	1:H:210:PRO:HD3	2.00	0.76
1:H:227:GLU:HA	1:H:274:ARG:HA	1.67	0.76
1:K:427:GLY:HA3	1:K:429:GLN:NE2	1.99	0.76
1:D:506:VAL:HG12	1:D:507:LEU:HG	1.65	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:A:577:ILE:HA	1:A:582:LYS:HB3	1.67	0.76
1:B:427:GLY:HA3	1:B:429:GLN:NE2	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:I:56:GLN:NE2	1:I:58:ASP:HB2	1.99	0.76
1:I:427:GLY:HA3	1:I:429:GLN:NE2	1.99	0.76
1:L:56:GLN:NE2	1:L:58:ASP:HB2	1.99	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: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:J:56:GLN:NE2	1:J:58:ASP:HB2	1.99	0.76
1:J:379:GLU:O	1:J:380:ASN:HB2	1.84	0.76
1:K:209:PHE:N	1:K:210:PRO:HD3	2.00	0.76
1:A:434:THR:HG21	1:B:72:ARG:HG2	1.68	0.76
1:B:209:PHE:N	1:B:210:PRO:HD3	2.00	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:H:89:ASP:HA	1:I:561:ASP:CB	2.14	0.76
1:K:398:PRO:HB3	1:L:395:PRO:HD2	1.66	0.76
1:A:567:MET:HE2	1:L:554:LEU:HD22	1.67	0.76
1:D:209:PHE:N	1:D:210:PRO:HD3	2.00	0.76
1:D:554:LEU:HD21	1:E:564:GLY:HA2	1.66	0.76
1:I:92:ASP:HB3	1:J:561:ASP:OD2	1.85	0.76
1:J:209:PHE:N	1:J:210:PRO:HD3	2.00	0.76
1:K:401:ASN:OD1	1:L:341:VAL:HG13	1.86	0.76
1:L:427:GLY:HA3	1:L:429:GLN:NE2	1.99	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:248:LYS:HZ2	1:A:251:ILE:HD12	1.49	0.76
1:B:35:PHE:C	1:B:37:ARG:H	1.93	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:K:165:MET:HE1	1:K:435:VAL:HB	1.65	0.76
1:L:45:LEU:HD21	1:L:328:ARG:HH21	1.49	0.76
1:H:577:ILE:HA	1:H:582:LYS:HB3	1.68	0.76
1:I:45:LEU:HD21	1:I:328:ARG:HH21	1.49	0.76
1:G:577:ILE:HA	1:G:582:LYS:HB3	1.67	0.76
1:I:209:PHE:N	1:I:210:PRO:HD3	2.00	0.76
1:I:227:GLU:HA	1:I:274:ARG:HA	1.67	0.76
1:L:66:LYS:HZ3	1:L:420:VAL:HG21	1.49	0.76
1:D:427:GLY:HA3	1:D:429:GLN:NE2	1.99	0.76
1:F:165:MET:HE1	1:F:435:VAL:HB	1.65	0.75
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:A:379:GLU:O	1:A:380:ASN:HB2	1.84	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:58:ASP:OD2	1:L:322:LEU:HD11	1.83	0.75
1:E:209:PHE:N	1:E:210:PRO:HD3	2.00	0.75
1:G:209:PHE:N	1:G:210:PRO:HD3	2.00	0.75
1:G:554:LEU:HD21	1:H:564:GLY:HA2	1.67	0.75
1:L:209:PHE:N	1:L:210:PRO:HD3	2.00	0.75
1:K:528:LYS:HD2	1:K:560:LEU:HD21	1.68	0.75
1:E:577:ILE:HA	1:E:582:LYS:HB3	1.67	0.75
1:F:227:GLU:HA	1:F:274:ARG:HA	1.67	0.75
1:G:379:GLU:O	1:G:380:ASN:HB2	1.84	0.75
1:L:35:PHE:C	1:L:37:ARG:H	1.93	0.75
1:J:45:LEU:HD21	1:J:328:ARG:HH21	1.49	0.75
1:J:577:ILE:HA	1:J:582:LYS:HB3	1.67	0.75
1:B:554:LEU:HD22	1:C:567:MET:HE2	1.69	0.75
1:C:35:PHE:C	1:C:37:ARG:H	1.93	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:G:398:PRO:HB3	1:H:395:PRO:HD2	1.68	0.75
1:J:162:SER:HB2	1:J:170:ALA:HB2	1.69	0.75
1:L:585:GLU:C	1:L:587:PRO:HD3	2.12	0.75
1:A:35:PHE:C	1:A:37:ARG:H	1.93	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:209:PHE:N	1:C:210:PRO:HD3	2.00	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:K:577:ILE:HA	1:K:582:LYS:HB3	1.67	0.75
1:B:528:LYS:HD2	1:B:560:LEU:HD21	1.68	0.74
1:G:528:LYS:HD2	1:G:560:LEU:HD21	1.68	0.74
1:H:528:LYS:HD2	1:H:560:LEU:HD21	1.68	0.74
1:I:248:LYS:HZ2	1:I:251:ILE:HD12	1.51	0.74
1:K:390:ALA:CB	1:L:387:GLN:HB2	2.17	0.74
1:L:577:ILE:HA	1:L:582:LYS:HB3	1.67	0.74
1:D:398:PRO:HB3	1:E:395:PRO:HD2	1.69	0.74
1:D:434:THR:OG1	1:E:108:LYS:NZ	2.20	0.74
1:G:585:GLU:C	1:G:587:PRO:HD3	2.12	0.74
1:I:35:PHE:C	1:I:37:ARG:H	1.93	0.74
1:D:528:LYS:HD2	1:D:560:LEU:HD21	1.68	0.74
1:D:585:GLU:C	1:D:587:PRO:HD3	2.12	0.74
1:E:528:LYS:HD2	1:E:560:LEU:HD21	1.68	0.74
1:E:585:GLU:C	1:E:587:PRO:HD3	2.12	0.74
1:I:577:ILE:HA	1:I:582:LYS:HB3	1.67	0.74
1:A:352:TRP:HD1	1:B:374:LEU:O	1.69	0.74
1:C:89:ASP:HA	1:D:561:ASP:HB2	1.67	0.74
1:H:35:PHE:C	1:H:37:ARG:H	1.93	0.74
1:K:248:LYS:HZ2	1:K:251:ILE:HD12	1.52	0.74
1:C:585:GLU:C	1:C:587:PRO:HD3	2.12	0.74
1:G:158:TRP:CH2	1:G:302:PRO:HG3	2.23	0.74
1:G:322:LEU:HD11	1:H:58:ASP:OD2	1.85	0.74
1:J:434:THR:HA	1:J:437:GLN:CD	2.13	0.74
1:F:434:THR:HA	1:F:437:GLN:CD	2.13	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:L:434:THR:HA	1:L:437:GLN:CD	2.13	0.74
1:B:158:TRP:CH2	1:B:302:PRO:HG3	2.23	0.74
1:C:434:THR:HA	1:C:437:GLN:CD	2.13	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:G:35:PHE:C	1:G:37:ARG:H	1.93	0.74
1:I:89:ASP:CA	1:J:561:ASP:HB2	2.17	0.74
1:I:162:SER:HB2	1:I:170:ALA:HB2	1.68	0.74
1:I:434:THR:HA	1:I:437:GLN:CD	2.13	0.74
1:I:585:GLU:C	1:I:587:PRO:HD3	2.12	0.74
1:K:35:PHE:C	1:K:37:ARG:H	1.93	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:150:HIS:ND1	1:L:309:PHE:HB2	2.02	0.74
1:E:27:ARG:CZ	1:F:211:TRP:HB3	2.17	0.74
1:E:434:THR:HA	1:E:437:GLN:CD	2.13	0.74
1:F:162:SER:HB2	1:F:170:ALA:HB2	1.69	0.74
1:L:248:LYS:HZ2	1:L:251:ILE:HD12	1.53	0.74
1:A:528:LYS:HD2	1:A:560:LEU:HD21	1.68	0.74
1:D:158:TRP:CH2	1:D:302:PRO:HG3	2.23	0.74
1:F:158:TRP:CH2	1:F:302:PRO:HG3	2.23	0.74
1:H:66:LYS:HZ3	1:H:420:VAL:HG21	1.52	0.74
1:H:162:SER:HB2	1:H:170:ALA:HB2	1.69	0.74
1:J:585:GLU:C	1:J:587:PRO:HD3	2.12	0.74
1:K:162:SER:HB2	1:K:170:ALA:HB2	1.69	0.74
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:F:585:GLU:C	1:F:587:PRO:HD3	2.12	0.73
1:H:158:TRP:N	1:H:158:TRP:CD1	2.56	0.73
1:J:158:TRP:CH2	1:J:302:PRO:HG3	2.23	0.73
1:A:158:TRP:CH2	1:A:302:PRO:HG3	2.23	0.73
1:D:35:PHE:C	1:D:37:ARG:H	1.93	0.73
1:D:434:THR:HA	1:D:437:GLN:CD	2.13	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:J:528:LYS:HD2	1:J:560:LEU:HD21	1.68	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:H:325:ASP:OD2	1:I:56:GLN:HB2	1.88	0.73
1:K:585:GLU:C	1:K:587:PRO:HD3	2.12	0.73
1:A:162:SER:HB2	1:A:170:ALA:HB2	1.69	0.73
1:A:434:THR:HA	1:A:437:GLN:CD	2.13	0.73
1:A:585:GLU:C	1:A:587:PRO:HD3	2.12	0.73
1:B:158:TRP:CD1	1:B:158:TRP:N	2.56	0.73
1:E:35:PHE:C	1:E:37:ARG:H	1.93	0.73
1:K:66:LYS:HZ3	1:K:420:VAL:HG21	1.53	0.73
1:A:350:PHE:HE1	1:B:363:TYR:HE1	1.37	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:G:434:THR:HA	1:G:437:GLN:CD	2.13	0.73
1:H:434:THR:HA	1:H:437:GLN:CD	2.13	0.73
1:A:158:TRP:N	1:A:158:TRP:CD1	2.56	0.73
1:I:158:TRP:CH2	1:I:302:PRO:HG3	2.23	0.73
1:J:158:TRP:N	1:J:158:TRP:CD1	2.56	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:162:SER:HB2	1:L:170:ALA:HB2	1.68	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: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:F:400:ALA:CB	1:G:395:PRO:HB2	2.19	0.73
1:K:434:THR:HA	1:K:437:GLN:CD	2.13	0.73
1:C:158:TRP:CH2	1:C:302:PRO:HG3	2.23	0.73
1:D:99:ARG:O	1:D:103:ARG:HG3	1.89	0.73
1:H:585:GLU:C	1:H:587:PRO:HD3	2.12	0.73
1:L:158:TRP:CH2	1:L:302:PRO:HG3	2.23	0.73
1:B:585:GLU:C	1:B:587:PRO:HD3	2.12	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:N	1:L:158:TRP:CD1	2.56	0.72
1:B:66:LYS:HZ3	1:B:420:VAL:HG11	1.54	0.72
1:B:162:SER:HB2	1:B:170:ALA:HB2	1.69	0.72
1:B:434:THR:HA	1:B:437:GLN:CD	2.13	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
1:C:162:SER:HB2	1:C:170:ALA:HB2	1.69	0.72
1:F:40:GLN:O	1:F:41:TRP:HB2	1.88	0.72
1:G:27:ARG:HG2	1:H:212:LEU:HD13	1.70	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:J:427:GLY:C	1:J:429:GLN:H	1.98	0.72
1:H:434:THR:HG21	1:I:72:ARG:HG2	1.72	0.72
1:G:158:TRP:N	1:G:158:TRP:CD1	2.56	0.72
1:J:99:ARG:O	1:J:103:ARG:HG3	1.89	0.72
1:D:411:ALA:HB2	1:E:57:PHE:CD1	2.23	0.72
1:G:40:GLN:O	1:G:41:TRP:HB2	1.88	0.72
1:J:248:LYS:HG3	1:J:511:ARG:HH11	1.55	0.72
1:A:40:GLN:O	1:A:41:TRP:HB2	1.88	0.72
1:D:427:GLY:C	1:D:429:GLN:H	1.98	0.72
1:E:99:ARG:O	1:E:103:ARG:HG3	1.89	0.72
1:G:199:PRO:HB3	1:G:282:THR:HG22	1.72	0.72
1:H:99:ARG:O	1:H:103:ARG:HG3	1.89	0.72
1:H:152:ALA:O	1:H:156:VAL:HG22	1.90	0.72
1:L:99:ARG:O	1:L:103:ARG:HG3	1.89	0.72
1:L:427:GLY:C	1:L:429:GLN:H	1.98	0.72
1:E:199:PRO:HB3	1:E:282:THR:HG22	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:427:GLY:C	1:K:429:GLN:H	1.98	0.72
1:L:40:GLN:O	1:L:41:TRP:HB2	1.88	0.72
1:A:99:ARG:O	1:A: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: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:I:99:ARG:O	1:I:103:ARG:HG3	1.89	0.72
1:J:89:ASP:HA	1:K:561:ASP:CB	2.19	0.72
1:J:152:ALA:O	1:J:156:VAL:HG22	1.90	0.72
1:E:152:ALA:O	1:E:156:VAL:HG22	1.90	0.71
1:H:248:LYS:HG3	1:H:511:ARG:HH11	1.55	0.71
1:I:236:GLN:HB2	1:I:265:LYS:NZ	2.06	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:F:352:TRP:HD1	1:G:374:LEU:O	1.74	0.71
1:H:199:PRO:HB3	1:H:282:THR:HG22	1.72	0.71
1:I:40:GLN:O	1:I:41:TRP:HB2	1.88	0.71
1:A:248:LYS:HG3	1:A:511:ARG:HH11	1.55	0.71
1:A:560:LEU:CD2	1:L:82:PRO:HG2	2.07	0.71
1:E:248:LYS:HZ2	1:E:251:ILE:HD12	1.55	0.71
1:H:427:GLY:C	1:H:429:GLN:H	1.98	0.71
1:I:554:LEU:HD22	1:J:567:MET:HE2	1.72	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:I:427:GLY:C	1:I:429:GLN:H	1.98	0.71
1:J:199:PRO:HB3	1:J:282:THR:HG22	1.72	0.71
1:K:152:ALA:O	1:K:156:VAL:HG22	1.90	0.71
1:A:236:GLN:HB2	1:A:265:LYS:NZ	2.05	0.71
1:B:99:ARG:O	1:B:103:ARG:HG3	1.89	0.71
1:B:325:ASP:OD2	1:C:56:GLN:HB2	1.91	0.71
1:C:248:LYS:HG3	1:C:511:ARG:HH11	1.55	0.71
1:J:236:GLN:HB2	1:J:265:LYS:NZ	2.06	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:L:199:PRO:HB3	1:L:282:THR:HG22	1.72	0.71
1:A:58:ASP:CG	1:L:322:LEU:HD12	2.09	0.71
1:B:152:ALA:O	1:B: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:E:398:PRO:HB3	1:F:395:PRO:HD2	1.71	0.71
1:G:376:ARG:O	1:G:383:ASP:HB3	1.91	0.71
1:I:310:VAL:C	1:I:312:ASP:H	1.99	0.71
1:K:376:ARG:O	1:K:383:ASP:HB3	1.91	0.71
1:C:158:TRP:N	1:C:158:TRP:CD1	2.56	0.71
1:E:158:TRP:CD1	1:E:158:TRP:N	2.56	0.71
1:F:248:LYS:HG3	1:F:511:ARG:HH11	1.55	0.71
1:F:310:VAL:C	1:F:312:ASP:H	1.99	0.71
1:J:458:ARG:HG3	1:J:459:ARG:H	1.56	0.71
1:K:236:GLN:HB2	1:K:265:LYS:NZ	2.05	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:K:78:VAL:HG12	1:K:79:LEU:N	2.06	0.71
1:H:398:PRO:HB3	1:I:395:PRO:HD2	1.72	0.70
1:J:27:ARG:CZ	1:K:211:TRP:HB3	2.21	0.70
1:K:458:ARG:HG3	1:K:459:ARG:H	1.56	0.70
1:C:78:VAL:HG12	1:C:79:LEU:N	2.06	0.70
1:C:199:PRO:HB3	1:C:282:THR:HG22	1.72	0.70
1:D:78:VAL:HG12	1:D:79:LEU:N	2.06	0.70
1:D:248:LYS:HG3	1:D:511:ARG:HH11	1.55	0.70
1:F:152:ALA:O	1:F:156:VAL:HG22	1.90	0.70
1:F:400:ALA:HB3	1:G:395:PRO:HB2	1.72	0.70
1:G:427:GLY:C	1:G:429:GLN:H	1.98	0.70
1:A:310:VAL:C	1:A:312:ASP:H	1.99	0.70
1:B:77:ASP:CB	1:B:523:SER:HA	2.21	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:E:78:VAL:HG12	1:E:79:LEU:N	2.06	0.70
1:E:376:ARG:O	1:E:383:ASP:HB3	1.91	0.70
1:J:78:VAL:HG12	1:J:79:LEU:N	2.06	0.70
1:L:376:ARG:O	1:L:383:ASP:HB3	1.91	0.70
1:D:199:PRO:HB3	1:D:282:THR:HG22	1.72	0.70
1:D:351:PHE:CE1	1:D:388:PRO:HG3	2.27	0.70
1:F:351:PHE:CE1	1:F:388:PRO:HG3	2.27	0.70
1:J:34:PHE:CE2	1:J:45:LEU:HG	2.27	0.70
1:J:376:ARG:O	1:J:383:ASP:HB3	1.91	0.70
1:C:351:PHE:CE1	1:C:388:PRO:HG3	2.27	0.70
1:D:158:TRP:N	1:D:158:TRP:CD1	2.56	0.70
1:E:351:PHE:CE1	1:E:388:PRO:HG3	2.27	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:B:427:GLY:C	1:B:429:GLN:H	1.98	0.70
1:E:427:GLY:C	1:E:429:GLN:H	1.98	0.70
1:F:34:PHE:CE2	1:F:45:LEU:HG	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: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:A:376:ARG:O	1:A:383:ASP:HB3	1.91	0.70
1:B:225:VAL:HG22	1:B:276:VAL:HG12	1.74	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:H:310:VAL:C	1:H:312:ASP:H	1.99	0.70
1:I:199:PRO:HB3	1:I:282:THR:HG22	1.72	0.70
1:I:584:PRO:HG2	1:I:590:GLN:HG2	1.74	0.70
1:J:325:ASP:OD2	1:K:56:GLN:HB2	1.92	0.70
1:D:376:ARG:O	1:D:383:ASP:HB3	1.91	0.70
1:F:210:PRO:HD2	1:F:211:TRP:CH2	2.27	0.70
1:G:78:VAL:HG12	1:G:79:LEU:N	2.06	0.70
1:H:584:PRO:HG2	1:H:590:GLN:HG2	1.74	0.70
1:I:210:PRO:HD2	1:I:211:TRP:CH2	2.27	0.70
1:K:248:LYS:HG3	1:K:511:ARG:HH11	1.55	0.70
1:B:210:PRO:HD2	1:B:211:TRP:CH2	2.27	0.70
1:B:351:PHE:CE1	1:B:388:PRO:HG3	2.27	0.70
1:C:34:PHE:CE2	1:C:45:LEU:HG	2.27	0.70
1:C:376:ARG:O	1:C:383:ASP:HB3	1.91	0.70
1:C:458:ARG:HG3	1:C:459:ARG:H	1.56	0.70
1:G:248:LYS:HG3	1:G:511:ARG:HH11	1.55	0.70
1:J:351:PHE:CE1	1:J:388:PRO:HG3	2.27	0.70
1:F:78:VAL:HG12	1:F:79:LEU:N	2.06	0.70
1:F:376:ARG:O	1:F:383:ASP:HB3	1.91	0.70
1:F:458:ARG:HG3	1:F:459:ARG:H	1.56	0.70
1:A:78:VAL:HG12	1:A:79:LEU:N	2.06	0.69
1:C:144:ILE:HG12	1:C:447:TYR:CE1	2.27	0.69
1:C:210:PRO:HD2	1:C:211:TRP:CH2	2.27	0.69
1:C:310:VAL:C	1:C:312:ASP:H	1.99	0.69
1:D:382:GLY:O	1:D:384:LEU:HD13	1.92	0.69
1:D:458:ARG:HG3	1:D:459:ARG:H	1.56	0.69
1:F:382:GLY:O	1:F:384:LEU:HD13	1.92	0.69
1:G:225:VAL:HG22	1:G:276:VAL:HG12	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:351:PHE:CE1	1:G:388:PRO:HG3	2.27	0.69
1:G:382:GLY:O	1:G:384:LEU:HD13	1.92	0.69
1:I:225:VAL:HG22	1:I:276:VAL:HG12	1.74	0.69
1:K:26:ARG:HG2	1:L:212:LEU:HD22	1.73	0.69
1:A:225:VAL:HG22	1:A:276:VAL:HG12	1.74	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:G:236:GLN:HB2	1:G:265:LYS:NZ	2.06	0.69
1:H:66:LYS:NZ	1:H:420:VAL:HG11	2.08	0.69
1:H:210:PRO:HD2	1:H:211:TRP:CH2	2.27	0.69
1:K:236:GLN:HB2	1:K:265:LYS:HG2	1.75	0.69
1:L:382:GLY:O	1:L:384:LEU:HD13	1.92	0.69
1:A:210:PRO:HD2	1:A:211:TRP:CH2	2.27	0.69
1:A:337:ASN:HD21	1:A:401:ASN:HD22	1.41	0.69
1:A:351:PHE:CE1	1:A:388:PRO:HG3	2.27	0.69
1:B:78:VAL:HG12	1:B:79:LEU:N	2.06	0.69
1:C:66:LYS:NZ	1:C:420:VAL:HG11	2.08	0.69
1:C:82:PRO:HG2	1:D:560:LEU:HD22	1.73	0.69
1:E:210:PRO:HD2	1:E:211:TRP:CH2	2.27	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:I:351:PHE:CE1	1:I:388:PRO:HG3	2.27	0.69
1:K:351:PHE:CE1	1:K:388:PRO:HG3	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:G:152:ALA:O	1:G:156:VAL:HG22	1.90	0.69
1:H:34:PHE:CE2	1:H:45:LEU:HG	2.27	0.69
1:L:248:LYS:HG3	1:L:511:ARG:HH11	1.55	0.69
1:B:27:ARG:HG2	1:C:212:LEU:HD13	1.75	0.69
1:B:376:ARG:O	1:B:383:ASP:HB3	1.91	0.69
1:C:400:ALA:CB	1:D:395:PRO:HB2	2.22	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:H:351:PHE:CE1	1:H:388:PRO:HG3	2.27	0.69
1:I:236:GLN:HB2	1:I:265:LYS:HG2	1.75	0.69
1:K:210:PRO:HD2	1:K:211:TRP:CH2	2.27	0.69
1:K:310:VAL:C	1:K:312:ASP:H	1.99	0.69
1:K:584:PRO:HG2	1:K:590:GLN:HG2	1.74	0.69
1:L:34:PHE:CE2	1:L:45:LEU:HG	2.27	0.69
1:L:458:ARG:HG3	1:L:459:ARG:H	1.56	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:B:5:GLU:HG2	1:B:6:ASN:H	1.58	0.69
1:B:66:LYS:NZ	1:B:420:VAL:HG11	2.08	0.69
1:E:34:PHE:CE2	1:E:45:LEU:HG	2.27	0.69
1:G:411:ALA:HB1	1:H:57:PHE:HD1	1.57	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:L:351:PHE:CE1	1:L:388:PRO:HG3	2.27	0.69
1:B:34:PHE:CE2	1:B:45:LEU:HG	2.27	0.69
1:B:310:VAL:C	1:B:312:ASP:H	1.99	0.69
1:C:337:ASN:HD21	1:C:401:ASN:HD22	1.41	0.69
1:D:236:GLN:HB2	1:D:265:LYS:HG2	1.75	0.69
1:D:310:VAL:C	1:D:312:ASP:H	1.99	0.69
1:E:5:GLU:HG2	1:E:6:ASN:H	1.58	0.69
1:E:66:LYS:NZ	1:E:420:VAL:HG11	2.08	0.69
1:E:225:VAL:HG22	1:E:276:VAL:HG12	1.74	0.69
1:H:5:GLU:HG2	1:H:6:ASN:H	1.58	0.69
1:H:225:VAL:HG22	1:H:276:VAL:HG12	1.74	0.69
1:I:34:PHE:CE2	1:I:45:LEU:HG	2.27	0.69
1:I:158:TRP:N	1:I:158:TRP:CD1	2.56	0.69
1:J:66:LYS:NZ	1:J:420:VAL:HG11	2.08	0.69
1:J:310:VAL:C	1:J:312:ASP:H	1.99	0.69
1:L:78:VAL:HG12	1:L:79:LEU:N	2.06	0.69
1:A:66:LYS:NZ	1:A:420:VAL:HG11	2.08	0.69
1:E:310:VAL:C	1:E:312:ASP:H	1.99	0.69
1:F:66:LYS:NZ	1:F:420:VAL:HG11	2.08	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:G:310:VAL:C	1:G:312:ASP:H	1.99	0.69
1:G:337:ASN:HD21	1:G:401:ASN:HD22	1.40	0.69
1:H:34:PHE:HZ	1:H:328:ARG:NH2	1.91	0.69
1:I:5:GLU:HG2	1:I:6:ASN:H	1.58	0.69
1:I:78:VAL:HG12	1:I:79:LEU:N	2.06	0.69
1:I:337:ASN:HD21	1:I:401:ASN:HD22	1.41	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:J:5:GLU:HG2	1:J:6:ASN:H	1.58	0.69
1:J:236:GLN:HB2	1:J:265:LYS:HG2	1.75	0.69
1:K:34:PHE:HZ	1:K:328:ARG:NH2	1.91	0.69
1:L:66:LYS:NZ	1:L:420:VAL:HG11	2.08	0.69
1:L:584:PRO:HG2	1:L:590:GLN:HG2	1.74	0.69
1:A:34:PHE:CE2	1:A:45:LEU:HG	2.27	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:584:PRO:HG2	1:A:590:GLN:HG2	1.74	0.69
1:B:236:GLN:HB2	1:B:265:LYS:HG2	1.75	0.69
1:B:670:LYS:O	1:B:673:ALA:HB3	1.93	0.69
1:E:236:GLN:HB2	1:E:265:LYS:HG2	1.75	0.69
1:E:458:ARG:HG3	1:E:459:ARG:H	1.56	0.69
1:F:34:PHE:HZ	1:F:328:ARG:NH2	1.91	0.69
1:F:427:GLY:C	1:F:429:GLN:H	1.98	0.69
1:G:5:GLU:HG2	1:G:6:ASN:H	1.58	0.69
1:G:210:PRO:HD2	1:G:211:TRP:CH2	2.27	0.69
1:J:337:ASN:HD21	1:J:401:ASN:HD22	1.41	0.69
1:K:5:GLU:HG2	1:K:6:ASN:H	1.58	0.69
1:K:34:PHE:CE2	1:K:45:LEU:HG	2.27	0.69
1:K:66:LYS:NZ	1:K:420:VAL:HG11	2.08	0.69
1:A:57:PHE:HD1	1:L:411:ALA:CB	2.06	0.69
1:C:382:GLY:O	1:C:384:LEU:HD13	1.92	0.69
1:D:434:THR:HG21	1:E:72:ARG:HG2	1.75	0.69
1:D:441:ARG:HH21	1:E:525:GLN:NE2	1.90	0.69
1:G:24:GLU:C	1:G:26:ARG:H	2.01	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:K:352:TRP:CZ2	1:L:385:PRO:HG2	2.28	0.69
1:L:112:ASN:O	1:L:115:VAL:HG22	1.94	0.69
1:A:5:GLU:HG2	1:A:6:ASN:H	1.58	0.68
1:A:427:GLY:C	1:A:429:GLN:H	1.98	0.68
1:B:382:GLY:O	1:B:384:LEU:HD13	1.92	0.68
1:C:24:GLU:C	1:C:26:ARG:H	2.01	0.68
1:E:236:GLN:HB2	1:E:265:LYS:NZ	2.06	0.68
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:382:GLY:O	1:H:384:LEU:HD13	1.92	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:K:382:GLY:O	1:K:384:LEU:HD13	1.92	0.68
1:K:546:THR:CG2	1:K:547:PRO:HD3	2.23	0.68
1:K:670:LYS:O	1:K:673:ALA:HB3	1.93	0.68
1:A:144:ILE:HG12	1:A:447:TYR:CE1	2.27	0.68
1:C:77:ASP:CB	1:C:523:SER:HA	2.21	0.68
1:D:5:GLU:HG2	1:D:6:ASN:H	1.58	0.68
1:D:546:THR:CG2	1:D:547:PRO:HD3	2.23	0.68
1:D:584:PRO:HG2	1:D:590:GLN:HG2	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:584:PRO:HG2	1:E:590:GLN:HG2	1.74	0.68
1:J:210:PRO:HD2	1:J:211:TRP:CH2	2.27	0.68
1:A:112:ASN:O	1:A:115:VAL:HG22	1.94	0.68
1:B:26:ARG:HG2	1:C:212:LEU:HD22	1.75	0.68
1:C:236:GLN:HB2	1:C:265:LYS:HG2	1.75	0.68
1:F:670:LYS:O	1:F:673:ALA:HB3	1.93	0.68
1:G:34:PHE:HZ	1:G:328:ARG:NH2	1.91	0.68
1:G:236:GLN:HB2	1:G:265:LYS:HG2	1.75	0.68
1:J:77:ASP:CB	1:J:523:SER:HA	2.21	0.68
1:K:37:ARG:NH2	1:K:41:TRP:CE3	2.62	0.68
1:L:236:GLN:HB2	1:L:265:LYS:HG2	1.75	0.68
1:B:337:ASN:HD21	1:B:401:ASN:HD22	1.41	0.68
1:D:24:GLU:C	1:D:26:ARG:H	2.01	0.68
1:F:37:ARG:NH2	1:F:41:TRP:CE3	2.62	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:L:546:THR:CG2	1:L:547:PRO:HD3	2.23	0.68
1:A:557:PHE:CE2	1:B:563:LYS:HD3	2.28	0.68
1:A:670:LYS:O	1:A:673:ALA:HB3	1.93	0.68
1:B:166:ASP:CG	1:B:168:SER:HB3	2.19	0.68
1:C:5:GLU:HG2	1:C:6:ASN:H	1.58	0.68
1:C:225:VAL:HG22	1:C:276:VAL:HG12	1.74	0.68
1:C:427:GLY:C	1:C:429:GLN:H	1.98	0.68
1:D:225:VAL:HG22	1:D:276:VAL:HG12	1.74	0.68
1:D:670:LYS:O	1:D:673:ALA:HB3	1.93	0.68
1:G:584:PRO:HG2	1:G:590:GLN:HG2	1.74	0.68
1:H:166:ASP:CG	1:H:168:SER:HB3	2.19	0.68
1:H:670:LYS:O	1:H:673:ALA:HB3	1.93	0.68
1:I:66:LYS:NZ	1:I:420:VAL:HG11	2.08	0.68
1:I:670:LYS:O	1:I:673:ALA:HB3	1.93	0.68
1:J:166:ASP:CG	1:J:168:SER:HB3	2.19	0.68
1:J:584:PRO:HG2	1:J:590:GLN:HG2	1.74	0.68
1:K:82:PRO:HD2	1:L:560:LEU:HD13	1.75	0.68
1:L:210:PRO:HD2	1:L:211:TRP:CH2	2.27	0.68
1:L:225:VAL:HG22	1:L:276:VAL:HG12	1.74	0.68
1:C:670:LYS:O	1:C:673:ALA:HB3	1.93	0.68
1:E:37:ARG:NH2	1:E:41:TRP:CE3	2.62	0.68
1:E:166:ASP:CG	1:E:168:SER:HB3	2.19	0.68
1:E:382:GLY:O	1:E:384:LEU:HD13	1.92	0.68
1:F:166:ASP:CG	1:F:168:SER:HB3	2.19	0.68
1:I:166:ASP:CG	1:I:168:SER:HB3	2.19	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:112:ASN:O	1:J:115:VAL:HG22	1.94	0.68
1:J:382:GLY:O	1:J:384:LEU:HD13	1.92	0.68
1:C:112:ASN:O	1:C:115:VAL:HG22	1.94	0.68
1:F:24:GLU:C	1:F:26:ARG:H	2.01	0.68
1:G:546:THR:CG2	1:G:547:PRO:HD3	2.24	0.68
1:G:670:LYS:O	1:G:673:ALA:HB3	1.93	0.68
1:J:670:LYS:O	1:J:673:ALA:HB3	1.93	0.68
1:L:37:ARG:NH2	1:L:41:TRP:CE3	2.62	0.68
1:A:24:GLU:C	1:A:26:ARG:H	2.01	0.68
1:A:62:PRO:HG3	1:L:415:VAL:HA	1.75	0.68
1:A:382:GLY:O	1:A:384:LEU:HD13	1.92	0.68
1:B:66:LYS:HZ3	1:B:420:VAL:HG21	1.58	0.68
1:C:34:PHE:HZ	1:C:328:ARG:NH2	1.91	0.68
1:C:236:GLN:HB2	1:C:265:LYS:NZ	2.06	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:F:66:LYS:HZ3	1:F:420:VAL:HG21	1.59	0.68
1:G:37:ARG:NH2	1:G:41:TRP:CE3	2.62	0.68
1:G:66:LYS:NZ	1:G:420:VAL:HG11	2.08	0.68
1:G:112:ASN:O	1:G:115:VAL:HG22	1.94	0.68
1:G:166:ASP:CG	1:G:168:SER:HB3	2.19	0.68
1:I:37:ARG:NH2	1:I:41:TRP:CE3	2.62	0.68
1:I:554:LEU:HD21	1:J:564:GLY:HA2	1.76	0.68
1:K:118:GLN:HA	1:K:123:VAL:O	1.94	0.68
1:L:144:ILE:HG12	1:L:447:TYR:CE1	2.27	0.68
1:L:310:VAL:C	1:L:312:ASP:H	1.99	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:D:400:ALA:HA	1:E:397:VAL:HG23	1.75	0.68
1:D:411:ALA:HB1	1:E:57:PHE:CD1	2.24	0.68
1:F:225:VAL:HG22	1:F:276:VAL:HG12	1.74	0.68
1:H:37:ARG:NH2	1:H:41:TRP:CE3	2.62	0.68
1:J:34:PHE:HZ	1:J:328:ARG:NH2	1.91	0.68
1:D:236:GLN:HB2	1:D:265:LYS:NZ	2.06	0.68
1:D:352:TRP:CD1	1:E:374:LEU:O	2.47	0.68
1:H:24:GLU:C	1:H:26:ARG:H	2.01	0.68
1:K:112:ASN:O	1:K:115:VAL:HG22	1.94	0.68
1:K:166:ASP:CG	1:K:168:SER:HB3	2.19	0.68
1:L:5:GLU:HG2	1:L:6:ASN:H	1.58	0.68
1:A:57:PHE:CD1	1:L:411:ALA:CB	2.77	0.67
1:C:118:GLN:HA	1:C:123:VAL:O	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:584:PRO:HG2	1:C:590:GLN:HG2	1.74	0.67
1:D:112:ASN:O	1:D:115:VAL:HG22	1.94	0.67
1:I:118:GLN:HA	1:I:123:VAL:O	1.94	0.67
1:D:37:ARG:NH2	1:D:41:TRP:CE3	2.62	0.67
1:D:118:GLN:HA	1:D:123:VAL:O	1.94	0.67
1:I:112:ASN:O	1:I:115:VAL:HG22	1.94	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:C:166:ASP:CG	1:C:168:SER:HB3	2.19	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:A:77:ASP:CB	1:A:523:SER:HA	2.21	0.67
1:F:112:ASN:O	1:F:115:VAL:HG22	1.94	0.67
1:G:118:GLN:HA	1:G:123:VAL:O	1.94	0.67
1:H:89:ASP:CA	1:I:561:ASP:HB2	2.23	0.67
1:H:118:GLN:HA	1:H:123:VAL:O	1.94	0.67
1:J:92:ASP:HB3	1:K:561:ASP:OD2	1.95	0.67
1:L:118:GLN:HA	1:L:123:VAL:O	1.94	0.67
1:B:112:ASN:O	1:B:115:VAL:HG22	1.94	0.67
1:C:37:ARG:NH2	1:C:41:TRP:CE3	2.62	0.67
1:B:584:PRO:HG2	1:B:590:GLN:HG2	1.74	0.67
1:D:309:PHE:HB2	1:E:150:HIS:ND1	2.09	0.67
1:D:575:GLN:O	1:D:579:MET:HG2	1.95	0.67
1:E:24:GLU:C	1:E:26:ARG:H	2.01	0.67
1:E:112:ASN:O	1:E:115:VAL:HG22	1.94	0.67
1:F:44:TRP:C	1:F:45:LEU:HD22	2.20	0.67
1:J:210:PRO:HD2	1:J:211:TRP:CE3	2.30	0.67
1:K:24:GLU:C	1:K:26:ARG:H	2.01	0.67
1:L:166:ASP:CG	1:L:168:SER:HB3	2.19	0.67
1:A:236:GLN:HB2	1:A:265:LYS:HG2	1.75	0.67
1:B:575:GLN:O	1:B:579:MET:HG2	1.95	0.67
1:D:166:ASP:CG	1:D:168:SER:HB3	2.19	0.67
1:E:44:TRP:C	1:E:45:LEU:HD22	2.20	0.67
1:I:24:GLU:C	1:I:26:ARG:H	2.01	0.67
1:I:44:TRP:C	1:I:45:LEU:HD22	2.20	0.67
1:I:77:ASP:CB	1:I:523:SER:HA	2.21	0.67
1:K:44:TRP:C	1:K:45:LEU:HD22	2.20	0.67
1:K:575:GLN:O	1:K:579:MET:HG2	1.95	0.67
1:L:44:TRP:C	1:L:45:LEU:HD22	2.20	0.67
1:A:166:ASP:CG	1:A:168:SER:HB3	2.19	0.67
1:A:311:GLU:O	1:A:312:ASP:HB2	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:34:PHE:HZ	1:B:328:ARG:NH2	1.91	0.67
1:D:44:TRP:C	1:D:45:LEU:HD22	2.20	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:A:390:ALA:HB3	1:B:387:GLN:OE1	1.95	0.67
1:A:546:THR:CG2	1:A:547:PRO:HD3	2.23	0.67
1:B:37:ARG:NH2	1:B:41:TRP:CE3	2.62	0.67
1:B:325:ASP:O	1:B:329:LEU:HD23	1.95	0.67
1:D:337:ASN:HD21	1:D:401:ASN:HD22	1.41	0.67
1:E:210:PRO:HD2	1:E:211:TRP:CE3	2.30	0.67
1:F:337:ASN:HD21	1:F:401:ASN:HD22	1.41	0.67
1:G:575:GLN:O	1:G:579:MET:HG2	1.95	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:A:44:TRP:C	1:A:45:LEU:HD22	2.20	0.67
1:A:554:LEU:HD21	1:B:564:GLY:CA	2.21	0.67
1:E:337:ASN:HD21	1:E:401:ASN:HD22	1.41	0.67
1:G:325:ASP:O	1:G:329:LEU:HD23	1.95	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:I:546:THR:CG2	1:I:547:PRO:HD3	2.23	0.67
1:J:325:ASP:O	1:J:329:LEU:HD23	1.95	0.67
1:L:337:ASN:HD21	1:L:401:ASN:HD22	1.41	0.67
1:D:210:PRO:HD2	1:D:211:TRP:CE3	2.30	0.66
1:D:311:GLU:O	1:D:312:ASP:HB2	1.95	0.66
1:H:210:PRO:HD2	1:H:211:TRP:CE3	2.30	0.66
1:I:311:GLU:O	1:I:312:ASP:HB2	1.95	0.66
1:L:311:GLU:O	1:L:312:ASP:HB2	1.95	0.66
1:A:34:PHE:HZ	1:A:328:ARG:NH2	1.91	0.66
1:B:24:GLU:C	1:B:26:ARG:H	2.01	0.66
1:D:325:ASP:O	1:D:329:LEU:HD23	1.95	0.66
1:E:575:GLN:O	1:E:579:MET:HG2	1.95	0.66
1:J:575:GLN:O	1:J:579:MET:HG2	1.95	0.66
1:L:34:PHE:CZ	1:L:328:ARG:NH2	2.62	0.66
1:B:44:TRP:C	1:B:45:LEU:HD22	2.20	0.66
1:B:118:GLN:HA	1:B:123:VAL:O	1.94	0.66
1:B:236:GLN:HB2	1:B:265:LYS:NZ	2.05	0.66
1:E:352:TRP:HD1	1:F:374:LEU:O	1.78	0.66
1:F:210:PRO:HD2	1:F:211:TRP:CE3	2.30	0.66
1:G:32:ASP:HA	1:G:35:PHE:CE1	2.31	0.66
1:J:546:THR:CG2	1:J:547:PRO:HD3	2.23	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:101:ASP:HB2	1:L:144:ILE:O	1.96	0.66
1:B:210:PRO:HD2	1:B:211:TRP:CE3	2.30	0.66
1:E:311:GLU:O	1:E:312:ASP:HB2	1.95	0.66
1:F:118:GLN:HA	1:F:123:VAL:O	1.94	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:24:GLU:C	1:J:26:ARG:H	2.01	0.66
1:J:44:TRP:C	1:J:45:LEU:HD22	2.20	0.66
1:J:118:GLN:HA	1:J:123:VAL:O	1.94	0.66
1:K:325:ASP:O	1:K:329:LEU:HD23	1.95	0.66
1:L:77:ASP:CB	1:L:523:SER:HA	2.21	0.66
1:A:118:GLN:HA	1:A:123:VAL:O	1.94	0.66
1:C:311:GLU:O	1:C:312:ASP:HB2	1.95	0.66
1:C:350:PHE:HA	1:D:372:TYR:O	1.95	0.66
1:E:118:GLN:HA	1:E:123:VAL:O	1.94	0.66
1:H:34:PHE:CZ	1:H:328:ARG:NH2	2.62	0.66
1:J:66:LYS:HZ1	1:J:420:VAL:HG21	1.61	0.66
1:K:101:ASP:HB2	1:K:144:ILE:O	1.96	0.66
1:A:65:ARG:HG2	1:L:306:GLU:OE2	1.95	0.66
1:A:325:ASP:O	1:A:329:LEU:HD23	1.95	0.66
1:C:44:TRP:C	1:C:45:LEU:HD22	2.20	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:D:66:LYS:HZ3	1:D:420:VAL:CG1	2.08	0.66
1:F:66:LYS:NZ	1:F:420:VAL:HG21	2.11	0.66
1:K:32:ASP:HA	1:K:35:PHE:CE1	2.31	0.66
1:L:32:ASP:HA	1:L:35:PHE:CE1	2.31	0.66
1:A:32:ASP:HA	1:A:35:PHE:CE1	2.31	0.66
1:C:101:ASP:HB2	1:C:144:ILE:O	1.96	0.66
1:D:101:ASP:HB2	1:D:144:ILE:O	1.96	0.66
1:I:575:GLN:O	1:I:579:MET:HG2	1.95	0.66
1:K:210:PRO:HD2	1:K:211:TRP:CE3	2.30	0.66
1:A:528:LYS:CD	1:A:560:LEU:HD21	2.26	0.66
1:F:311:GLU:O	1:F:312:ASP:HB2	1.95	0.66
1:H:32:ASP:HA	1:H:35:PHE:CE1	2.30	0.66
1:J:32:ASP:HA	1:J:35:PHE:CE1	2.30	0.66
1:L:24:GLU:C	1:L:26:ARG:H	2.01	0.66
1:L:325:ASP:O	1:L:329:LEU:HD23	1.95	0.66
1:C:210:PRO:HD2	1:C:211:TRP:CE3	2.30	0.66
1:D:364:ASP:HA	1:E:370:PRO:HB3	1.78	0.66
1:F:325:ASP:O	1:F:329:LEU:HD23	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:101:ASP:HB2	1:G:144:ILE:O	1.96	0.66
1:A:150:HIS:CG	1:L:309:PHE:HB2	2.31	0.66
1:A:210:PRO:HD2	1:A:211:TRP:CE3	2.30	0.66
1:B:311:GLU:O	1:B:312:ASP:HB2	1.95	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:E:101:ASP:HB2	1:E:144:ILE:O	1.96	0.66
1:G:528:LYS:CD	1:G:560:LEU:HD21	2.26	0.66
1:H:27:ARG:CZ	1:I:211:TRP:HB3	2.25	0.66
1:J:66:LYS:NZ	1:J:420:VAL:HG21	2.11	0.66
1:K:352:TRP:CD1	1:L:374:LEU:O	2.49	0.66
1:A:101:ASP:HB2	1:A:144:ILE:O	1.96	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:C:32:ASP:HA	1:C:35:PHE:CE1	2.31	0.65
1:C:575:GLN:O	1:C:579:MET:HG2	1.95	0.65
1:D:401:ASN:CG	1:E:341:VAL:HG13	2.22	0.65
1:G:34:PHE:CZ	1:G:328:ARG:NH2	2.62	0.65
1:G:44:TRP:C	1:G:45:LEU:HD22	2.20	0.65
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:K:89:ASP:HA	1:L:561:ASP:HB2	1.76	0.65
1:L:210:PRO:HD2	1:L:211:TRP:CE3	2.30	0.65
1:L:528:LYS:CD	1:L:560:LEU:HD21	2.26	0.65
1:L:575:GLN:O	1:L:579:MET:HG2	1.95	0.65
1:C:66:LYS:NZ	1:C:420:VAL:HG21	2.11	0.65
1:H:248:LYS:CG	1:H:511:ARG:HH11	2.10	0.65
1:J:311:GLU:O	1:J:312:ASP:HB2	1.95	0.65
1:A:108:LYS:NZ	1:L:438:LEU:HD11	2.11	0.65
1:A:575:GLN:O	1:A:579:MET:HG2	1.95	0.65
1:B:32:ASP:HA	1:B:35:PHE:CE1	2.31	0.65
1:D:66:LYS:NZ	1:D:420:VAL:HG21	2.11	0.65
1:E:66:LYS:NZ	1:E:420:VAL:HG21	2.11	0.65
1:E:248:LYS:CG	1:E:511:ARG:HH11	2.10	0.65
1:E:325:ASP:O	1:E:329:LEU:HD23	1.95	0.65
1:F:34:PHE:CZ	1:F:328:ARG:NH2	2.62	0.65
1:H:44:TRP:C	1:H:45:LEU:HD22	2.20	0.65
1:H:273:ARG:HH22	1:H:453:LEU:CD2	2.10	0.65
1:H:337:ASN:HD21	1:H:401:ASN:HD22	1.41	0.65
1:K:350:PHE:HE1	1:L:363:TYR:HE1	1.43	0.65
1:A:66:LYS:NZ	1:A:420:VAL:HG21	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:66:LYS:NZ	1:B:420:VAL:HG21	2.11	0.65
1:F:546:THR:CG2	1:F:547:PRO:HD3	2.23	0.65
1:F:575:GLN:O	1:F:579:MET:HG2	1.95	0.65
1:G:311:GLU:O	1:G:312:ASP:HB2	1.95	0.65
1:H:248:LYS:HZ2	1:H:251:ILE:HD12	1.61	0.65
1:I:325:ASP:O	1:I:329:LEU:HD23	1.95	0.65
1:L:248:LYS:CG	1:L:511:ARG:HH11	2.10	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:A:273:ARG:HH22	1:A:453:LEU:CD2	2.10	0.65
1:B:144:ILE:HG12	1:B:447:TYR:CE1	2.27	0.65
1:C:45:LEU:HD22	1:C:45:LEU:N	2.12	0.65
1:C:89:ASP:HA	1:D:561:ASP:CB	2.26	0.65
1:E:546:THR:CG2	1:E:547:PRO:HD3	2.23	0.65
1:F:27:ARG:HD2	1:G:212:LEU:H	1.61	0.65
1:F:32:ASP:HA	1:F:35:PHE:CE1	2.31	0.65
1:G:66:LYS:HZ3	1:G:420:VAL:CG2	2.10	0.65
1:G:248:LYS:CG	1:G:511:ARG:HH11	2.10	0.65
1:H:101:ASP:HB2	1:H:144:ILE:O	1.96	0.65
1:H:552:LEU:O	1:H:555:GLN:HB3	1.97	0.65
1:I:273:ARG:HH22	1:I:453:LEU:CD2	2.10	0.65
1:J:45:LEU:HD22	1:J:45:LEU:N	2.12	0.65
1:K:273:ARG:HH22	1:K:453:LEU:CD2	2.10	0.65
1:B:273:ARG:HH22	1:B:453:LEU:CD2	2.10	0.65
1:B:528:LYS:CD	1:B:560:LEU:HD21	2.26	0.65
1:D:45:LEU:HD22	1:D:45:LEU:N	2.12	0.65
1:E:45:LEU:HD22	1:E:45:LEU:N	2.12	0.65
1:E:77:ASP:CB	1:E:523:SER:HA	2.21	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:J:528:LYS:CD	1:J:560:LEU:HD21	2.26	0.65
1:K:311:GLU:O	1:K:312:ASP:HB2	1.95	0.65
1:K:554:LEU:HD22	1:L:567:MET:HE2	1.78	0.65
1:A:66:LYS:HZ3	1:A:420:VAL:CG2	2.07	0.65
1:C:528:LYS:CD	1:C:560:LEU:HD21	2.26	0.65
1:D:434:THR:HG21	1:E:72:ARG:CG	2.27	0.65
1:F:273:ARG:HH22	1:F:453:LEU:CD2	2.10	0.65
1:H:528:LYS:CD	1:H:560:LEU:HD21	2.26	0.65
1:I:66:LYS:NZ	1:I:420:VAL:HG21	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:248:LYS:CG	1:I:511:ARG:HH11	2.10	0.65
1:K:552:LEU:O	1:K:555:GLN:HB3	1.97	0.65
1:L:273:ARG:HH22	1:L:453:LEU:CD2	2.10	0.65
1:B:45:LEU:HD22	1:B:45:LEU:N	2.12	0.65
1:C:166:ASP:OD2	1:C:168:SER:HB3	1.97	0.65
1:C:248:LYS:CG	1:C:511:ARG:HH11	2.10	0.65
1:D:528:LYS:CD	1:D:560:LEU:HD21	2.26	0.65
1:G:66:LYS:NZ	1:G:420:VAL:HG21	2.11	0.65
1:G:273:ARG:HH22	1:G:453:LEU:CD2	2.10	0.65
1:H:546:THR:CG2	1:H:547:PRO:HD3	2.24	0.65
1:I:45:LEU:HD22	1:I:45:LEU:N	2.12	0.65
1:I:138:THR:H	1:I:143:VAL:CG2	2.10	0.65
1:I:528:LYS:CD	1:I:560:LEU:HD21	2.26	0.65
1:J:166:ASP:OD2	1:J:168:SER:HB3	1.97	0.65
1:L:66:LYS:NZ	1:L:420:VAL:HG21	2.11	0.65
1:B:546:THR:CG2	1:B:547:PRO:HD3	2.24	0.65
1:B:552:LEU:O	1:B:555:GLN:HB3	1.97	0.65
1:C:325:ASP:O	1:C:329:LEU:HD23	1.95	0.65
1:F:101:ASP:HB2	1:F:144:ILE:O	1.96	0.65
1:G:45:LEU:HD22	1:G:45:LEU:N	2.12	0.65
1:I:411:ALA:HB1	1:J:57:PHE:HD1	1.62	0.65
1:L:45:LEU:HD22	1:L:45:LEU:N	2.12	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
1:C:264:ILE:O	1:C:265:LYS:HD3	1.98	0.64
1:C:273:ARG:HH22	1:C:453:LEU:CD2	2.10	0.64
1:D:248:LYS:CG	1:D:511:ARG:HH11	2.10	0.64
1:G:552:LEU:O	1:G:555:GLN:HB3	1.97	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: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:G:209:PHE:HA	1:G:211:TRP:NE1	2.13	0.64
1:H:166:ASP:OD2	1:H:168:SER:HB3	1.97	0.64
1:J:101:ASP:HB2	1:J:144:ILE:O	1.96	0.64
1:J:273:ARG:HH22	1:J:453:LEU:CD2	2.10	0.64
1:K:34:PHE:CZ	1:K:328:ARG:NH2	2.62	0.64
1:C:552:LEU:O	1:C:555:GLN:HB3	1.97	0.64
1:E:273:ARG:HH22	1:E:453:LEU:CD2	2.10	0.64
1:E:444:LEU:O	1:E:448:VAL:HG23	1.98	0.64
1:H:311:GLU:O	1:H:312:ASP:HB2	1.95	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:444:LEU:O	1:L:448:VAL:HG23	1.98	0.64
1:A:138:THR:H	1:A:143:VAL:CG2	2.10	0.64
1:D:166:ASP:OD2	1:D:168:SER:HB3	1.97	0.64
1:E:554:LEU:HD22	1:F:567:MET:HE2	1.80	0.64
1:G:444:LEU:O	1:G:448:VAL:HG23	1.98	0.64
1:I:322:LEU:HD11	1:J:58:ASP:OD2	1.95	0.64
1:L:264:ILE:O	1:L:265:LYS:HD3	1.98	0.64
1:E:144:ILE:HG12	1:E:447:TYR:CE1	2.27	0.64
1:F:264:ILE:O	1:F:265:LYS:HD3	1.98	0.64
1:H:411:ALA:CB	1:I:57:PHE:HD1	2.11	0.64
1:A:552:LEU:O	1:A:555:GLN:HB3	1.97	0.64
1:C:546:THR:CG2	1:C:547:PRO:HD3	2.23	0.64
1:D:444:LEU:O	1:D:448:VAL:HG23	1.98	0.64
1:F:248:LYS:CG	1:F:511:ARG:HH11	2.10	0.64
1:I:444:LEU:O	1:I:448:VAL:HG23	1.98	0.64
1:J:264:ILE:O	1:J:265:LYS:HD3	1.98	0.64
1:J:413:LYS:HA	1:J:416:ALA:CB	2.28	0.64
1:K:248:LYS:CG	1:K:511:ARG:HH11	2.10	0.64
1:K:528:LYS:CD	1:K:560:LEU:HD21	2.26	0.64
1:B:413:LYS:HA	1:B: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:J:144:ILE:HG12	1:J:447:TYR:CE1	2.27	0.64
1:L:209:PHE:HA	1:L:211:TRP:NE1	2.13	0.64
1:A:444:LEU:O	1:A:448:VAL:HG23	1.98	0.64
1:B:209:PHE:HA	1:B:211:TRP:NE1	2.13	0.64
1:B:248:LYS:CG	1:B:511:ARG:HH11	2.10	0.64
1:E:37:ARG:HH21	1:E:37:ARG:CB	2.11	0.64
1:E:528:LYS:CD	1:E:560:LEU:HD21	2.26	0.64
1:E:552:LEU:O	1:E:555:GLN:HB3	1.97	0.64
1:H:413:LYS:HA	1:H:416:ALA:CB	2.28	0.64
1:I:166:ASP:OD2	1:I:168:SER:HB3	1.97	0.64
1:J:248:LYS:CG	1:J:511:ARG:HH11	2.10	0.64
1:J:426:ASN:O	1:J:427:GLY:C	2.41	0.64
1:K:444:LEU:O	1:K:448:VAL:HG23	1.98	0.64
1:L:552:LEU:O	1:L:555:GLN:HB3	1.97	0.64
1:L:603:GLN:O	1:L:607:ALA:N	2.31	0.64
1:F:45:LEU:HD22	1:F:45:LEU:N	2.12	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:K:45:LEU:HD22	1:K:45:LEU:N	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:45:LEU:HD22	1:A:45:LEU:N	2.12	0.64
1:A:264:ILE:O	1:A:265:LYS:HD3	1.98	0.64
1:B:101:ASP:HB2	1:B:144:ILE:O	1.96	0.64
1:D:511:ARG:HA	1:D:513:ARG:CD	2.28	0.64
1:D:552:LEU:O	1:D:555:GLN:HB3	1.97	0.64
1:F:209:PHE:HA	1:F:211:TRP:NE1	2.12	0.64
1:G:426:ASN:O	1:G:427:GLY:C	2.41	0.64
1:I:552:LEU:O	1:I:555:GLN:HB3	1.97	0.64
1:J:209:PHE:HA	1:J:211:TRP:NE1	2.13	0.64
1:J:411:ALA:HB1	1:K:57:PHE:HD1	1.62	0.64
1:K:66:LYS:HZ3	1:K:420:VAL:HG11	1.62	0.64
1:K:264:ILE:O	1:K:265:LYS:HD3	1.98	0.64
1:E:209:PHE:HA	1:E:211:TRP:NE1	2.12	0.63
1:F:426:ASN:O	1:F:427:GLY:C	2.41	0.63
1:F:552:LEU:O	1:F:555:GLN:HB3	1.97	0.63
1:F:603:GLN:O	1:F:607:ALA:N	2.31	0.63
1:H:45:LEU:HD22	1:H:45:LEU:N	2.12	0.63
1:K:166:ASP:OD2	1:K:168:SER:HB3	1.97	0.63
1:D:144:ILE:HG12	1:D:447:TYR:CE1	2.27	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:I:209:PHE:HA	1:I:211:TRP:NE1	2.13	0.63
1:J:552:LEU:O	1:J:555:GLN:HB3	1.97	0.63
1:B:426:ASN:O	1:B:427:GLY:C	2.41	0.63
1:C:248:LYS:NZ	1:C:251:ILE:HD12	2.14	0.63
1:D:329:LEU:HD21	1:E:53:TYR:OH	1.97	0.63
1:D:413:LYS:HA	1:D:416:ALA:CB	2.28	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:J:37:ARG:HH21	1:J:37:ARG:CB	2.10	0.63
1:K:209:PHE:HA	1:K:211:TRP:NE1	2.12	0.63
1:K:413:LYS:HA	1:K:416:ALA:CB	2.28	0.63
1:L:166:ASP:OD2	1:L:168:SER:HB3	1.97	0.63
1:L:426:ASN:O	1:L:427:GLY:C	2.41	0.63
1:A:37:ARG:HH21	1:A:37:ARG:CB	2.11	0.63
1:A:89:ASP:CA	1:B:561:ASP:HB2	2.27	0.63
1:A:400:ALA:HB3	1:B:395:PRO:HB2	1.80	0.63
1:B:411:ALA:HB1	1:C:57:PHE:HD1	1.63	0.63
1:C:209:PHE:HA	1:C:211:TRP:NE1	2.13	0.63
1:G:264:ILE:O	1:G:265:LYS:HD3	1.98	0.63
1:G:413:LYS:HA	1:G:416:ALA:CB	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:66:LYS:HZ3	1:I:420:VAL:CG2	2.10	0.63
1:I:426:ASN:O	1:I:427:GLY:C	2.41	0.63
1:J:66:LYS:HZ1	1:J:420:VAL:CG1	2.10	0.63
1:J:511:ARG:HA	1:J:513:ARG:CD	2.28	0.63
1:L:37:ARG:HH21	1:L:37:ARG:CB	2.11	0.63
1:L:303:VAL:HA	1:L:439:ASN:ND2	2.14	0.63
1:A:41:TRP:HE3	1:A:42:ASP:O	1.82	0.63
1:A:303:VAL:HA	1:A:439:ASN:ND2	2.14	0.63
1:B:166:ASP:OD2	1:B:168:SER:HB3	1.97	0.63
1:C:444:LEU:O	1:C:448:VAL:HG23	1.98	0.63
1:D:138:THR:H	1:D:143:VAL:CG2	2.10	0.63
1:E:12:LEU:O	1:E:16:ASP:HB2	1.99	0.63
1:J:444:LEU:O	1:J:448:VAL:HG23	1.98	0.63
1:L:413:LYS:HA	1:L:416:ALA:CB	2.28	0.63
1:A:166:ASP:OD2	1:A:168:SER:HB3	1.97	0.63
1:A:426:ASN:O	1:A:427:GLY:C	2.41	0.63
1:A:603:GLN:O	1:A:607:ALA:N	2.31	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:37:ARG:HH21	1:I:37:ARG:CB	2.11	0.63
1:I:413:LYS:HA	1:I:416:ALA:CB	2.28	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:A:400:ALA:HB2	1:B:395:PRO:HB2	1.79	0.63
1:B:303:VAL:HA	1:B:439:ASN:ND2	2.14	0.63
1:C:426:ASN:O	1:C:427:GLY:C	2.41	0.63
1:C:603:GLN:O	1:C:607:ALA:N	2.31	0.63
1:D:209:PHE:HA	1:D:211:TRP:NE1	2.13	0.63
1:D:426:ASN:O	1:D:427:GLY:C	2.41	0.63
1:F:12:LEU:O	1:F:16:ASP:HB2	1.99	0.63
1:G:303:VAL:HA	1:G:439:ASN:ND2	2.14	0.63
1:H:12:LEU:O	1:H:16:ASP:HB2	1.99	0.63
1:H:303:VAL:HA	1:H:439:ASN:ND2	2.14	0.63
1:I:41:TRP:HE3	1:I:42:ASP:O	1.82	0.63
1:J:12:LEU:O	1:J:16:ASP:HB2	1.99	0.63
1:K:248:LYS:NZ	1:K:251:ILE:HD12	2.14	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:A:511:ARG:HA	1:A:513:ARG:CD	2.28	0.63
1:C:12:LEU:O	1:C:16:ASP:HB2	1.99	0.63
1:C:306:GLU:O	1:C:316:TYR:HA	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:66:LYS:HZ3	1:D:420:VAL:HG21	1.63	0.63
1:D:306:GLU:O	1:D:316:TYR:HA	1.99	0.63
1:D:554:LEU:HD22	1:E:567:MET:CE	2.29	0.63
1:F:282:THR:HG23	1:F:287:LEU:HD11	1.81	0.63
1:F:557:PHE:CE2	1:G:563:LYS:HD3	2.33	0.63
1:J:303:VAL:HA	1:J:439:ASN:ND2	2.14	0.63
1:J:306:GLU:O	1:J:316:TYR:HA	1.99	0.63
1:L:12:LEU:O	1:L:16:ASP:HB2	1.99	0.63
1:B:37:ARG:HH21	1:B:37:ARG:CB	2.11	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:E:306:GLU:O	1:E:316:TYR:HA	1.99	0.63
1:G:37:ARG:HH21	1:G:37:ARG:CB	2.11	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:K:426:ASN:O	1:K:427:GLY:C	2.41	0.63
1:L:511:ARG:HA	1:L:513:ARG:CD	2.28	0.63
1:B:12:LEU:O	1:B:16:ASP:HB2	1.99	0.62
1:B:34:PHE:CZ	1:B:328:ARG:NH2	2.62	0.62
1:B:511:ARG:HA	1:B:513:ARG:CD	2.27	0.62
1:C:66:LYS:HZ3	1:C:420:VAL:CG2	2.10	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:D:603:GLN:O	1:D:607:ALA:N	2.31	0.62
1:F:138:THR:H	1:F:143:VAL:CG2	2.10	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:K:306:GLU:O	1:K:316:TYR:HA	1.99	0.62
1:L:306:GLU:O	1:L:316:TYR:HA	1.99	0.62
1:E:66:LYS:HZ3	1:E:420:VAL:HG11	1.64	0.62
1:E:413:LYS:HA	1:E:416:ALA:CB	2.28	0.62
1:F:390:ALA:CB	1:G:387:GLN:HB2	2.29	0.62
1:H:66:LYS:HZ3	1:H:420:VAL:CG2	2.12	0.62
1:J:434:THR:HG21	1:K:72:ARG:CG	2.28	0.62
1:K:82:PRO:HG2	1:L:560:LEU:HD22	1.81	0.62
1:L:248:LYS:NZ	1:L:251:ILE:HD12	2.14	0.62
1:A:12:LEU:O	1:A:16:ASP:HB2	1.99	0.62
1:C:158:TRP:HB3	1:C:173:CYS:CA	2.30	0.62
1:C:410:SER:O	1:C:414:GLU:HG2	2.00	0.62
1:D:12:LEU:O	1:D:16:ASP:HB2	1.99	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:F:158:TRP:HB3	1:F:173:CYS:CA	2.30	0.62
1:F:444:LEU:O	1:F:448:VAL:HG23	1.98	0.62
1:K:282:THR:HG23	1:K:287:LEU:HD11	1.81	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:E:434:THR:HG21	1:F:72:ARG:HG2	1.81	0.62
1:F:66:LYS:HZ3	1:F:420:VAL:CG1	2.12	0.62
1:J:248:LYS:NZ	1:J:251:ILE:HD12	2.14	0.62
1:K:303:VAL:HA	1:K:439:ASN:ND2	2.14	0.62
1:K:511:ARG:HA	1:K:513:ARG:CD	2.28	0.62
1:L:66:LYS:HZ3	1:L:420:VAL:CG2	2.10	0.62
1:D:37:ARG:HH21	1:D:37:ARG:CB	2.11	0.62
1:F:303:VAL:HA	1:F:439:ASN:ND2	2.14	0.62
1:I:264:ILE:O	1:I:265:LYS:HD3	1.98	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:J:34:PHE:CZ	1:J:328:ARG:NH2	2.62	0.62
1:B:41:TRP:CG	1:B:42:ASP:H	2.18	0.62
1:C:413:LYS:HA	1:C:416:ALA:CB	2.28	0.62
1:E:66:LYS:HZ3	1:E:420:VAL:CG2	2.12	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:H:410:SER:O	1:H:414:GLU:HG2	2.00	0.62
1:K:410:SER:O	1:K:414:GLU:HG2	2.00	0.62
1:L:282:THR:HG23	1:L:287:LEU:HD11	1.81	0.62
1:A:306:GLU:O	1:A:316:TYR:HA	1.99	0.62
1:J:282:THR:HG23	1:J:287:LEU:HD11	1.81	0.62
1:L:158:TRP:HB3	1:L:173:CYS:CA	2.30	0.62
1:A:282:THR:HG23	1:A:287:LEU:HD11	1.81	0.62
1:B:603:GLN:O	1:B:607:ALA:N	2.31	0.62
1:D:303:VAL:HA	1:D:439:ASN:ND2	2.14	0.62
1:D:349:PRO:HB2	1:D:351:PHE:CE2	2.35	0.62
1:E:282:THR:HG23	1:E:287:LEU:HD11	1.81	0.62
1:G:5:GLU:HG2	1:G:6:ASN:N	2.15	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:H:248:LYS:NZ	1:H:251:ILE:HD12	2.14	0.62
1:J:5:GLU:HG2	1:J:6:ASN:N	2.15	0.62
1:B:158:TRP:HB3	1:B:173:CYS:CA	2.30	0.62
1:C:457:MET:HG3	1:C:457:MET:O	2.00	0.62
1:F:35:PHE:C	1:F:37:ARG:N	2.58	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:158:TRP:HB3	1:H:173:CYS:CA	2.30	0.62
1:H:603:GLN:O	1:H:607:ALA:N	2.31	0.62
1:J:138:THR:H	1:J:143:VAL:CG2	2.10	0.62
1:J:554:LEU:HD22	1:K:567:MET:HE2	1.81	0.62
1:B:248:LYS:NZ	1:B:251:ILE:HD12	2.14	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:G:35:PHE:C	1:G:37:ARG:N	2.58	0.62
1:G:511:ARG:HA	1:G:513:ARG:CD	2.28	0.62
1:H:37:ARG:HH21	1:H:37:ARG:CB	2.11	0.62
1:H:306:GLU:O	1:H:316:TYR:HA	1.99	0.62
1:I:309:PHE:HB2	1:J:150:HIS:ND1	2.15	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:K:370:PRO:HB2	1:K:371:TYR:CD1	2.35	0.62
1:A:352:TRP:CD1	1:B:374:LEU:O	2.52	0.61
1:B:230:GLU:HG3	1:B:231:THR:N	2.15	0.61
1:C:5:GLU:HG2	1:C:6:ASN:N	2.15	0.61
1:C:41:TRP:HE3	1:C:42:ASP:O	1.82	0.61
1:C:230:GLU:HG3	1:C:231:THR:N	2.15	0.61
1:C:370:PRO:HB2	1:C:371:TYR:CD1	2.35	0.61
1:E:123:VAL:HG21	1:E:153:CYS:HB3	1.82	0.61
1:E:410:SER:O	1:E:414:GLU:HG2	2.00	0.61
1:E:426:ASN:O	1:E:427:GLY:C	2.41	0.61
1:E:603:GLN:O	1:E:607:ALA:N	2.31	0.61
1:G:248:LYS:NZ	1:G:251:ILE:HD12	2.14	0.61
1:H:370:PRO:HB2	1:H:371:TYR:CD1	2.35	0.61
1:H:426:ASN:O	1:H:427:GLY:C	2.41	0.61
1:J:35:PHE:C	1:J:37:ARG:N	2.58	0.61
1:J:158:TRP:HB3	1:J:173:CYS:CA	2.30	0.61
1:K:101:ASP:HB3	1:K:143:VAL:HG13	1.82	0.61
1:K:349:PRO:HB2	1:K:351:PHE:CE2	2.35	0.61
1:L:35:PHE:C	1:L:37:ARG:N	2.58	0.61
1:A:248:LYS:NZ	1:A:251:ILE:HD12	2.14	0.61
1:A:349:PRO:HB2	1:A:351:PHE:CE2	2.35	0.61
1:A:370:PRO:HB2	1:A:371:TYR:CD1	2.35	0.61
1:B:349:PRO:HB2	1:B:351:PHE:CE2	2.35	0.61
1:D:41:TRP:CG	1:D:42:ASP:H	2.18	0.61
1:D:410:SER:O	1:D:414:GLU:HG2	2.00	0.61
1:E:5:GLU:HG2	1:E:6:ASN:N	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:282:THR:HG23	1:G:287:LEU:HD11	1.81	0.61
1:G:400:ALA:HB3	1:H:395:PRO:HB2	1.80	0.61
1:G:457:MET:HG3	1:G:457:MET:O	2.00	0.61
1:I:41:TRP:CG	1:I:42:ASP:H	2.18	0.61
1:I:457:MET:HG3	1:I:457:MET:O	2.00	0.61
1:J:230:GLU:HG3	1:J:231:THR:N	2.15	0.61
1:J:349:PRO:HB2	1:J:351:PHE:CE2	2.35	0.61
1:L:457:MET:HG3	1:L:457:MET:O	2.00	0.61
1:B:370:PRO:HB2	1:B:371:TYR:CD1	2.35	0.61
1:C:123:VAL:HG21	1:C:153:CYS:HB3	1.83	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:D:586:THR:N	1:D:587:PRO:HD3	2.16	0.61
1:E:41:TRP:CG	1:E:42:ASP:H	2.18	0.61
1:E:248:LYS:NZ	1:E:251:ILE:HD12	2.14	0.61
1:E:303:VAL:HA	1:E:439:ASN:ND2	2.14	0.61
1:F:37:ARG:HH21	1:F:37:ARG:CB	2.11	0.61
1:H:230:GLU:HG3	1:H:231:THR:N	2.15	0.61
1:I:370:PRO:HB2	1:I:371:TYR:CD1	2.35	0.61
1:B:41:TRP:CD2	1:B:42:ASP:N	2.69	0.61
1:B:123:VAL:HG21	1:B:153:CYS:HB3	1.82	0.61
1:C:511:ARG:HA	1:C:513:ARG:CD	2.28	0.61
1:D:457:MET:HG3	1:D:457:MET:O	2.00	0.61
1:E:230:GLU:HG3	1:E:231:THR:N	2.15	0.61
1:F:123:VAL:HG21	1:F:153:CYS:HB3	1.82	0.61
1:F:230:GLU:HG3	1:F:231:THR:N	2.15	0.61
1:F:410:SER:O	1:F:414:GLU:HG2	2.00	0.61
1:G:41:TRP:HE3	1:G:42:ASP:O	1.82	0.61
1:G:306:GLU:O	1:G:316:TYR:HA	1.99	0.61
1:H:5:GLU:HG2	1:H:6:ASN:N	2.15	0.61
1:H:41:TRP:CG	1:H:42:ASP:H	2.18	0.61
1:K:66:LYS:HZ3	1:K:420:VAL:CG2	2.12	0.61
1:L:123:VAL:HG21	1:L:153:CYS:HB3	1.82	0.61
1:L:586:THR:N	1:L:587:PRO:HD3	2.16	0.61
1:B:273:ARG:O	1:B:274:ARG:CB	2.49	0.61
1:B:282:THR:HG23	1:B:287:LEU:HD11	1.81	0.61
1:E:370:PRO:HB2	1:E:371:TYR:CD1	2.35	0.61
1:E:586:THR:N	1:E:587:PRO:HD3	2.16	0.61
1:F:457:MET:HG3	1:F:457:MET:O	2.00	0.61
1:F:511:ARG:HA	1:F:513:ARG:CD	2.28	0.61
1:G:410:SER:O	1:G:414:GLU:HG2	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:101:ASP:HB3	1:H:143:VAL:HG13	1.82	0.61
1:K:41:TRP:HE3	1:K:42:ASP:O	1.82	0.61
1:K:158:TRP:HB3	1:K:173:CYS:CA	2.30	0.61
1:L:5:GLU:HG2	1:L:6:ASN:N	2.15	0.61
1:A:34:PHE:CZ	1:A:328:ARG:NH2	2.62	0.61
1:B:457:MET:O	1:B:457:MET:HG3	2.00	0.61
1:C:41:TRP:CG	1:C:42:ASP:H	2.18	0.61
1:E:89:ASP:HA	1:F:561:ASP:CB	2.29	0.61
1:H:66:LYS:HZ3	1:H:420:VAL:HG11	1.63	0.61
1:H:101:ASP:OD1	1:H:138:THR:HG21	2.01	0.61
1:I:35:PHE:C	1:I:37:ARG:N	2.58	0.61
1:I:273:ARG:O	1:I:274:ARG:CB	2.49	0.61
1:I:586:THR:N	1:I:587:PRO:HD3	2.16	0.61
1:J:41:TRP:CD2	1:J:42:ASP:N	2.69	0.61
1:K:41:TRP:CD2	1:K:42:ASP:N	2.69	0.61
1:A:56:GLN:N	1:L:325:ASP:OD2	2.34	0.61
1:A:306:GLU:OE2	1:B:65:ARG:HG2	2.00	0.61
1:A:457:MET:HG3	1:A:457:MET:O	2.00	0.61
1:B:101:ASP:OD1	1:B:138:THR:HG21	2.01	0.61
1:C:41:TRP:CD2	1:C:42:ASP:N	2.69	0.61
1:C:398:PRO:HB3	1:D:395:PRO:HD2	1.83	0.61
1:C:586:THR:N	1:C:587:PRO:HD3	2.16	0.61
1:D:123:VAL:HG21	1:D:153:CYS:HB3	1.82	0.61
1:F:306:GLU:O	1:F:316:TYR:HA	1.99	0.61
1:G:123:VAL:HG21	1:G:153:CYS:HB3	1.82	0.61
1:G:603:GLN:O	1:G:607:ALA:N	2.31	0.61
1:I:41:TRP:CD2	1:I:42:ASP:N	2.69	0.61
1:J:101:ASP:HB3	1:J:143:VAL:HG13	1.82	0.61
1:J:101:ASP:OD1	1:J:138:THR:HG21	2.01	0.61
1:J:410:SER:O	1:J:414:GLU:HG2	2.00	0.61
1:L:349:PRO:HB2	1:L:351:PHE:CE2	2.35	0.61
1:L:410:SER:O	1:L:414:GLU:HG2	2.00	0.61
1:A:41:TRP:CG	1:A:42:ASP:H	2.18	0.61
1:B:410:SER:O	1:B:414:GLU:HG2	2.00	0.61
1:C:37:ARG:HH21	1:C:37:ARG:CB	2.10	0.61
1:C:546:THR:HG23	1:C:547:PRO:CD	2.29	0.61
1:D:309:PHE:HB2	1:E:150:HIS:CB	2.30	0.61
1:F:41:TRP:CG	1:F:42:ASP:H	2.18	0.61
1:F:370:PRO:HB2	1:F:371:TYR:CD1	2.35	0.61
1:G:101:ASP:OD1	1:G:138:THR:HG21	2.01	0.61
1:H:532:ARG:HH22	1:H:560:LEU:HD12	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:230:GLU:HG3	1:I:231:THR:N	2.15	0.61
1:I:532:ARG:HH22	1:I:560:LEU:HD12	1.66	0.61
1:K:273:ARG:O	1:K:274:ARG:CB	2.49	0.61
1:A:5:GLU:HG2	1:A:6:ASN:N	2.15	0.61
1:A:41:TRP:CD2	1:A:42:ASP:N	2.69	0.61
1:D:370:PRO:HB2	1:D:371:TYR:CD1	2.35	0.61
1:E:457:MET:O	1:E:457:MET:HG3	2.00	0.61
1:E:511:ARG:HA	1:E:513:ARG:CD	2.28	0.61
1:G:41:TRP:CG	1:G:42:ASP:H	2.18	0.61
1:H:273:ARG:O	1:H:274:ARG:CB	2.49	0.61
1:H:282:THR:HG23	1:H:287:LEU:HD11	1.81	0.61
1:H:457:MET:HG3	1:H:457:MET:O	2.00	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:370:PRO:HB2	1:L:371:TYR:CD1	2.35	0.61
1:L:532:ARG:HH22	1:L:560:LEU:HD12	1.66	0.61
1:A:66:LYS:HZ1	1:A:420:VAL:HG11	1.64	0.61
1:C:101:ASP:HB3	1:C:143:VAL:HG13	1.83	0.61
1:C:273:ARG:O	1:C:274:ARG:CB	2.49	0.61
1:C:322:LEU:HD11	1:D:58:ASP:OD2	1.96	0.61
1:E:101:ASP:OD1	1:E:138:THR:HG21	2.01	0.61
1:E:349:PRO:HB2	1:E:351:PHE:CE2	2.35	0.61
1:G:230:GLU:HG3	1:G:231:THR:N	2.15	0.61
1:K:539:LEU:HD21	1:K:551:LEU:HB3	1.83	0.61
1:L:101:ASP:HB3	1:L:143:VAL:HG13	1.83	0.61
1:B:138:THR:H	1:B:143:VAL:CG2	2.10	0.60
1:C:282:THR:HG23	1:C:287:LEU:HD11	1.81	0.60
1:D:532:ARG:HH22	1:D:560:LEU:HD12	1.66	0.60
1:E:350:PHE:HE1	1:F:363:TYR:HE1	1.48	0.60
1:F:539:LEU:HD21	1:F:551:LEU:HB3	1.83	0.60
1:G:586:THR:N	1:G:587:PRO:HD3	2.16	0.60
1:K:123:VAL:HG21	1:K:153:CYS:HB3	1.82	0.60
1:A:158:TRP:HB3	1:A:173:CYS:CA	2.30	0.60
1:D:82:PRO:CG	1:E:560:LEU:HD22	2.22	0.60
1:D:248:LYS:NZ	1:D:251:ILE:HD12	2.14	0.60
1:E:101:ASP:HB3	1:E:143:VAL:HG13	1.82	0.60
1:E:532:ARG:HH22	1:E:560:LEU:HD12	1.66	0.60
1:F:5:GLU:HG2	1:F:6:ASN:N	2.15	0.60
1:F:101:ASP:OD1	1:F:138:THR:HG21	2.01	0.60
1:H:349:PRO:HB2	1:H:351:PHE:CE2	2.35	0.60
1:J:370:PRO:HB2	1:J:371:TYR:CD1	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:101:ASP:HB3	1:A:143:VAL:HG13	1.82	0.60
1:A:586:THR:N	1:A:587:PRO:HD3	2.16	0.60
1:B:539:LEU:HD21	1:B:551:LEU:HB3	1.83	0.60
1:C:350:PHE:HE1	1:D:363:TYR:HE1	1.49	0.60
1:G:273:ARG:O	1:G:274:ARG:CB	2.49	0.60
1:G:539:LEU:HD21	1:G:551:LEU:HB3	1.83	0.60
1:H:539:LEU:HD21	1:H:551:LEU:HB3	1.83	0.60
1:I:5:GLU:HG2	1:I:6:ASN:N	2.15	0.60
1:J:41:TRP:CG	1:J:42:ASP:H	2.18	0.60
1:L:41:TRP:CD2	1:L:42:ASP:N	2.69	0.60
1:A:532:ARG:HH22	1:A:560:LEU:HD12	1.66	0.60
1:B:101:ASP:HB3	1:B:143:VAL:HG13	1.82	0.60
1:F:41:TRP:CD2	1:F:42:ASP:N	2.69	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:H:41:TRP:CD2	1:H:42:ASP:N	2.69	0.60
1:H:511:ARG:HA	1:H:513:ARG:CD	2.28	0.60
1:I:101:ASP:OD1	1:I:138:THR:HG21	2.01	0.60
1:I:410:SER:O	1:I:414:GLU:HG2	2.00	0.60
1:J:457:MET:O	1:J:457:MET:HG3	2.00	0.60
1:K:5:GLU:HG2	1:K:6:ASN:N	2.15	0.60
1:K:586:THR:N	1:K:587:PRO:HD3	2.16	0.60
1:L:41:TRP:CG	1:L:42:ASP:H	2.18	0.60
1:L:602:GLY:O	1:L:606:PRO:CB	2.50	0.60
1:B:41:TRP:HE3	1:B:42:ASP:O	1.82	0.60
1:B:66:LYS:HZ3	1:B:420:VAL:CG1	2.13	0.60
1:D:101:ASP:OD1	1:D:138:THR:HG21	2.01	0.60
1:E:44:TRP:O	1:E:45:LEU:HD13	2.02	0.60
1:E:273:ARG:O	1:E:274:ARG:CB	2.49	0.60
1:F:101:ASP:HB3	1:F:143:VAL:HG13	1.82	0.60
1:F:248:LYS:NZ	1:F:251:ILE:HD12	2.14	0.60
1:F:273:ARG:O	1:F:274:ARG:CB	2.49	0.60
1:I:546:THR:HG23	1:I:547:PRO:CD	2.29	0.60
1:K:457:MET:HG3	1:K:457:MET:O	2.00	0.60
1:A:24:GLU:C	1:A:26:ARG:N	2.59	0.60
1:A:230:GLU:HG3	1:A:231:THR:N	2.15	0.60
1:B:602:GLY:O	1:B:606:PRO:CB	2.50	0.60
1:G:41:TRP:CD2	1:G:42:ASP:N	2.69	0.60
1:H:44:TRP:O	1:H:45:LEU:HD13	2.02	0.60
1:I:34:PHE:CZ	1:I:328:ARG:NH2	2.62	0.60
1:J:532:ARG:HH22	1:J:560:LEU:HD12	1.66	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:161:ASN:C	1:L:161:ASN:ND2	2.60	0.60
1:L:230:GLU:HG3	1:L:231:THR:N	2.15	0.60
1:L:273:ARG:O	1:L:274:ARG:CB	2.49	0.60
1:A:101:ASP:OD1	1:A:138:THR:HG21	2.01	0.60
1:A:109:ILE:HG21	1:L:164:LEU:HB2	1.83	0.60
1:C:158:TRP:HD1	1:C:158:TRP:H	1.50	0.60
1:C:539:LEU:HD21	1:C:551:LEU:HB3	1.83	0.60
1:D:44:TRP:O	1:D:45:LEU:HD13	2.02	0.60
1:E:138:THR:H	1:E:143:VAL:CG2	2.10	0.60
1:G:24:GLU:C	1:G:26:ARG:N	2.59	0.60
1:G:138:THR:H	1:G:143:VAL:CG2	2.10	0.60
1:H:602:GLY:O	1:H:606:PRO:CB	2.50	0.60
1:I:44:TRP:O	1:I:45:LEU:HD13	2.02	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:J:273:ARG:O	1:J:274:ARG:CB	2.49	0.60
1:K:161:ASN:ND2	1:K:161:ASN:C	2.60	0.60
1:L:328:ARG:HA	1:L:331:ASN:HD22	1.67	0.60
1:A:44:TRP:O	1:A:45:LEU:HD13	2.02	0.60
1:D:41:TRP:CD2	1:D:42:ASP:N	2.69	0.60
1:E:35:PHE:C	1:E:37:ARG:N	2.58	0.60
1:E:328:ARG:HA	1:E:331:ASN:HD22	1.67	0.60
1:E:602:GLY:O	1:E:606:PRO:CB	2.50	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:398:PRO:HB3	1:K:395:PRO:HD2	1.84	0.60
1:J:586:THR:N	1:J:587:PRO:HD3	2.16	0.60
1:J:602:GLY:O	1:J:606:PRO:CB	2.50	0.60
1:K:41:TRP:CG	1:K:42:ASP:H	2.18	0.60
1:B:546:THR:HG23	1:B:547:PRO:CD	2.29	0.60
1:C:602:GLY:O	1:C:606:PRO:CB	2.50	0.60
1:D:230:GLU:HG3	1:D:231:THR:N	2.15	0.60
1:D:539:LEU:HD21	1:D:551:LEU:HB3	1.83	0.60
1:G:101:ASP:HB3	1:G:143:VAL:HG13	1.82	0.60
1:I:602:GLY:O	1:I:606:PRO:CB	2.50	0.60
1:K:158:TRP:HD1	1:K:158:TRP:H	1.50	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:L:158:TRP:HD1	1:L:158:TRP:H	1.50	0.60
1:L:255:ILE:O	1:L:257:ASP:N	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:273:ARG:O	1:A:274:ARG:CB	2.49	0.60
1:C:427:GLY:C	1:C:429:GLN:N	2.60	0.60
1:D:602:GLY:O	1:D:606:PRO:CB	2.50	0.60
1:E:166:ASP:OD1	1:E:168:SER:HB3	2.02	0.60
1:E:539:LEU:HD21	1:E:551:LEU:HB3	1.83	0.60
1:F:41:TRP:HE3	1:F:42:ASP:O	1.82	0.60
1:F:328:ARG:HA	1:F:331:ASN:HD22	1.67	0.60
1:G:44:TRP:O	1:G:45:LEU:HD13	2.02	0.60
1:I:328:ARG:HA	1:I:331:ASN:HD22	1.67	0.60
1:A:255:ILE:O	1:A:257:ASP:N	2.35	0.59
1:A:602:GLY:O	1:A:606:PRO:CB	2.50	0.59
1:B:161:ASN:ND2	1:B:161:ASN:C	2.60	0.59
1:C:101:ASP:OD1	1:C:138:THR:HG21	2.01	0.59
1:C:571:TYR:CZ	1:C:575:GLN:HG3	2.37	0.59
1:D:41:TRP:HE3	1:D:42:ASP:O	1.82	0.59
1:D:273:ARG:O	1:D:274:ARG:CB	2.49	0.59
1:F:602:GLY:O	1:F:606:PRO:CB	2.50	0.59
1:G:166:ASP:OD1	1:G:168:SER:HB3	2.02	0.59
1:H:123:VAL:HG21	1:H:153:CYS:HB3	1.82	0.59
1:I:273:ARG:O	1:I:274:ARG:HB2	2.02	0.59
1:J:571:TYR:CZ	1:J:575:GLN:HG3	2.37	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:A:328:ARG:HA	1:A:331:ASN:HD22	1.67	0.59
1:A:410:SER:O	1:A:414:GLU:HG2	2.00	0.59
1:B:571:TYR:CZ	1:B:575:GLN:HG3	2.38	0.59
1:B:586:THR:N	1:B:587:PRO:HD3	2.16	0.59
1:E:34:PHE:CZ	1:E:328:ARG:NH2	2.62	0.59
1:F:161:ASN:ND2	1:F:161:ASN:C	2.60	0.59
1:H:165:MET:HG3	1:H:307:TRP:CE3	2.37	0.59
1:H:273:ARG:O	1:H:274:ARG:HB2	2.02	0.59
1:I:101:ASP:HB3	1:I:143:VAL:HG13	1.82	0.59
1:J:539:LEU:HD21	1:J:551:LEU:HB3	1.83	0.59
1:K:255:ILE:O	1:K:257:ASP:N	2.35	0.59
1:K:273:ARG:O	1:K:274:ARG:HB2	2.02	0.59
1:C:165:MET:HG3	1:C:307:TRP:CE3	2.38	0.59
1:E:255:ILE:O	1:E:257:ASP:N	2.35	0.59
1:I:427:GLY:C	1:I:429:GLN:N	2.60	0.59
1:I:571:TYR:CZ	1:I:575:GLN:HG3	2.37	0.59
1:K:532:ARG:HH22	1:K:560:LEU:HD12	1.66	0.59
1:K:603:GLN:O	1:K:607:ALA:N	2.31	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:44:TRP:O	1:L:45:LEU:HD13	2.02	0.59
1:D:165:MET:HG3	1:D:307:TRP:CE3	2.37	0.59
1:D:571:TYR:CZ	1:D:575:GLN:HG3	2.37	0.59
1:F:350:PHE:HA	1:G:372:TYR:O	2.02	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:K:571:TYR:CZ	1:K:575:GLN:HG3	2.38	0.59
1:L:118:GLN:NE2	1:L:303:VAL:HB	2.18	0.59
1:L:166:ASP:OD1	1:L:168:SER:HB3	2.02	0.59
1:A:166:ASP:OD1	1:A:168:SER:HB3	2.02	0.59
1:C:328:ARG:HA	1:C:331:ASN:HD22	1.67	0.59
1:D:158:TRP:HB3	1:D:173:CYS:CA	2.30	0.59
1:D:255:ILE:O	1:D:257:ASP:N	2.35	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:F:586:THR:N	1:F:587:PRO:HD3	2.16	0.59
1:H:328:ARG:HA	1:H:331:ASN:HD22	1.67	0.59
1:I:165:MET:HG3	1:I:307:TRP:CE3	2.38	0.59
1:I:255:ILE:O	1:I:257:ASP:N	2.35	0.59
1:J:24:GLU:C	1:J:26:ARG:N	2.59	0.59
1:K:27:ARG:CZ	1:L:211:TRP:HB3	2.32	0.59
1:K:165:MET:HG3	1:K:307:TRP:CE3	2.38	0.59
1:A:546:THR:HG23	1:A:547:PRO:CD	2.29	0.59
1:B:328:ARG:HA	1:B:331:ASN:HD22	1.67	0.59
1:D:161:ASN:C	1:D:161:ASN:ND2	2.60	0.59
1:D:328:ARG:HA	1:D:331:ASN:HD22	1.67	0.59
1:E:118:GLN:NE2	1:E:303:VAL:HB	2.18	0.59
1:E:411:ALA:HB1	1:F:57:PHE:HD1	1.66	0.59
1:F:27:ARG:HB2	1:F:313:LYS:HE3	1.85	0.59
1:K:101:ASP:CG	1:K:138:THR:HG21	2.28	0.59
1:L:101:ASP:CG	1:L:138:THR:HG21	2.28	0.59
1:L:571:TYR:CZ	1:L:575:GLN:HG3	2.38	0.59
1:A:101:ASP:CG	1:A:138:THR:HG21	2.28	0.59
1:B:27:ARG:HB2	1:B:313:LYS:HE3	1.85	0.59
1:C:118:GLN:NE2	1:C:303:VAL:HB	2.18	0.59
1:E:27:ARG:HB2	1:E:313:LYS:HE3	1.85	0.59
1:E:165:MET:HG3	1:E:307:TRP:CE3	2.38	0.59
1:F:44:TRP:O	1:F:45:LEU:HD13	2.02	0.59
1:G:255:ILE:O	1:G:257:ASP:N	2.35	0.59
1:K:166:ASP:OD1	1:K:168:SER:HB3	2.02	0.59
1:L:27:ARG:HB2	1:L:313:LYS:HE3	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:123:VAL:HG21	1:A:153:CYS:HB3	1.82	0.59
1:A:158:TRP:HD1	1:A:158:TRP:H	1.50	0.59
1:A:539:LEU:HD21	1:A:551:LEU:HB3	1.83	0.59
1:B:138:THR:OG1	1:B:143:VAL:HA	2.03	0.59
1:B:165:MET:HG3	1:B:307:TRP:CE3	2.38	0.59
1:C:24:GLU:C	1:C:26:ARG:N	2.59	0.59
1:C:101:ASP:CG	1:C:138:THR:HG21	2.28	0.59
1:C:161:ASN:ND2	1:C:161:ASN:C	2.60	0.59
1:C:273:ARG:O	1:C:274:ARG:HB2	2.02	0.59
1:D:118:GLN:NE2	1:D:303:VAL:HB	2.18	0.59
1:D:273:ARG:O	1:D:274:ARG:HB2	2.02	0.59
1:E:41:TRP:HE3	1:E:42:ASP:O	1.82	0.59
1:F:571:TYR:CZ	1:F:575:GLN:HG3	2.38	0.59
1:G:138:THR:OG1	1:G:143:VAL:HA	2.03	0.59
1:G:427:GLY:C	1:G:429:GLN:N	2.60	0.59
1:G:532:ARG:HH22	1:G:560:LEU:HD12	1.66	0.59
1:G:571:TYR:CZ	1:G:575:GLN:HG3	2.37	0.59
1:G:602:GLY:O	1:G:606:PRO:CB	2.50	0.59
1:H:161:ASN:ND2	1:H:161:ASN:C	2.60	0.59
1:H:322:LEU:HD11	1:I:58:ASP:OD2	1.96	0.59
1:H:444:LEU:C	1:H:446:THR:N	2.60	0.59
1:J:118:GLN:NE2	1:J:303:VAL:HB	2.18	0.59
1:J:255:ILE:O	1:J:257:ASP:N	2.35	0.59
1:K:24:GLU:C	1:K:26:ARG:N	2.59	0.59
1:K:27:ARG:HB2	1:K:313:LYS:HE3	1.85	0.59
1:B:101:ASP:CG	1:B:138:THR:HG21	2.28	0.59
1:B:166:ASP:OD1	1:B:168:SER:HB3	2.02	0.59
1:B:255:ILE:O	1:B:257:ASP:N	2.35	0.59
1:C:352:TRP:HD1	1:D:374:LEU:O	1.86	0.59
1:D:158:TRP:HD1	1:D:158:TRP:H	1.50	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:255:ILE:O	1:F:257:ASP:N	2.35	0.59
1:H:24:GLU:C	1:H:26:ARG:N	2.59	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:B:5:GLU:HG2	1:B:6:ASN:N	2.15	0.59
1:B:532:ARG:HH22	1:B:560:LEU:HD12	1.66	0.59
1:C:28:GLU:HB2	1:C:313:LYS:HZ2	1.66	0.59
1:C:166:ASP:OD1	1:C:168:SER:HB3	2.02	0.59
1:C:553:LEU:HB2	1:C:576:LEU:HD21	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:231:THR:HG23	1:E:249:ARG:HE	1.68	0.59
1:G:161:ASN:C	1:G:161:ASN:ND2	2.60	0.59
1:H:27:ARG:HB2	1:H:313:LYS:HE3	1.85	0.59
1:H:118:GLN:NE2	1:H:303:VAL:HB	2.18	0.59
1:H:138:THR:H	1:H:143:VAL:CG2	2.10	0.59
1:H:255:ILE:O	1:H:257:ASP:N	2.35	0.59
1:J:44:TRP:O	1:J:45:LEU:HD13	2.02	0.59
1:K:118:GLN:NE2	1:K:303:VAL:HB	2.18	0.59
1:K:230:GLU:HG3	1:K:231:THR:N	2.15	0.59
1:A:161:ASN:C	1:A:161:ASN:ND2	2.60	0.58
1:B:118:GLN:NE2	1:B:303:VAL:HB	2.18	0.58
1:C:255:ILE:O	1:C:257:ASP:N	2.35	0.58
1:F:273:ARG:O	1:F:274:ARG:HB2	2.02	0.58
1:F:532:ARG:HH22	1:F:560:LEU:HD12	1.66	0.58
1:H:101:ASP:CG	1:H:138:THR:HG21	2.28	0.58
1:H:554:LEU:HD22	1:I:567:MET:HE2	1.85	0.58
1:I:138:THR:OG1	1:I:143:VAL:HA	2.03	0.58
1:I:166:ASP:OD1	1:I:168:SER:HB3	2.02	0.58
1:J:27:ARG:HB2	1:J:313:LYS:HE3	1.85	0.58
1:J:101:ASP:CG	1:J:138:THR:HG21	2.28	0.58
1:J:158:TRP:H	1:J:158:TRP:HD1	1.50	0.58
1:J:231:THR:HG23	1:J:249:ARG:HE	1.68	0.58
1:L:539:LEU:HD21	1:L:551:LEU:HB3	1.83	0.58
1:A:165:MET:HG3	1:A:307:TRP:CE3	2.38	0.58
1:D:101:ASP:CG	1:D:138:THR:HG21	2.28	0.58
1:D:347:LYS:HG3	1:D:392:TYR:O	2.04	0.58
1:E:24:GLU:C	1:E:26:ARG:N	2.59	0.58
1:E:400:ALA:CB	1:F:395:PRO:HB2	2.33	0.58
1:F:24:GLU:C	1:F:26:ARG:N	2.59	0.58
1:F:101:ASP:CG	1:F:138:THR:HG21	2.28	0.58
1:G:101:ASP:CG	1:G:138:THR:HG21	2.28	0.58
1:H:138:THR:OG1	1:H:143:VAL:HA	2.03	0.58
1:H:427:GLY:C	1:H:429:GLN:N	2.60	0.58
1:I:101:ASP:CG	1:I:138:THR:HG21	2.28	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
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:K:347:LYS:HG3	1:K:392:TYR:O	2.04	0.58
1:K:444:LEU:C	1:K:446:THR:N	2.60	0.58
1:A:27:ARG:HD2	1:B:212:LEU:H	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:118:GLN:NE2	1:A:303:VAL:HB	2.18	0.58
1:A:346:LYS:HG3	1:B:367:ASP:OD1	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:E:101:ASP:CG	1:E:138:THR:HG21	2.28	0.58
1:G:27:ARG:HB2	1:G:313:LYS:HE3	1.85	0.58
1:H:158:TRP:HD1	1:H:158:TRP:H	1.50	0.58
1:H:166:ASP:OD1	1:H:168:SER:HB3	2.02	0.58
1:H:571:TYR:CZ	1:H:575:GLN:HG3	2.37	0.58
1:J:161:ASN:C	1:J:161:ASN:HD22	2.12	0.58
1:K:161:ASN:C	1:K:161:ASN:HD22	2.12	0.58
1:A:78:VAL:HG12	1:A:79:LEU:H	1.68	0.58
1:A:138:THR:OG1	1:A:143:VAL:HA	2.03	0.58
1:A:571:TYR:CZ	1:A:575:GLN:HG3	2.38	0.58
1:B:44:TRP:O	1:B:45:LEU:HD13	2.02	0.58
1:B:66:LYS:HZ3	1:B:420:VAL:CG2	2.16	0.58
1:E:273:ARG:O	1:E:274:ARG:HB2	2.02	0.58
1:G:118:GLN:NE2	1:G:303:VAL:HB	2.18	0.58
1:G:347:LYS:HG3	1:G:392:TYR:O	2.04	0.58
1:H:411:ALA:HB1	1:I:57:PHE:CD1	2.36	0.58
1:K:328:ARG:HA	1:K:331:ASN:HD22	1.67	0.58
1:A:35:PHE:C	1:A:37:ARG:N	2.58	0.58
1:A:231:THR:HG23	1:A:249:ARG:HE	1.68	0.58
1:A:427:GLY:O	1:A:429:GLN:N	2.37	0.58
1:B:444:LEU:C	1:B:446:THR:N	2.60	0.58
1:C:532:ARG:HH22	1:C:560:LEU:HD12	1.66	0.58
1:E:158:TRP:CD1	1:E:158:TRP:H	2.22	0.58
1:E:158:TRP:H	1:E:158:TRP:HD1	1.50	0.58
1:F:27:ARG:CZ	1:G:211:TRP:CB	2.80	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:I:82:PRO:CG	1:J:560:LEU:HD22	2.21	0.58
1:K:37:ARG:HH21	1:K:37:ARG:CB	2.11	0.58
1:K:231:THR:HG23	1:K:249:ARG:HE	1.68	0.58
1:L:165:MET:HG3	1:L:307:TRP:CE3	2.38	0.58
1:B:270:GLN:O	1:B:271:ILE:HD13	2.04	0.58
1:C:27:ARG:HB2	1:C:313:LYS:HE3	1.85	0.58
1:C:44:TRP:O	1:C:45:LEU:HD13	2.02	0.58
1:D:78:VAL:HG12	1:D:79:LEU:H	1.68	0.58
1:D:270:GLN:O	1:D:271:ILE:HD13	2.04	0.58
1:E:571:TYR:CZ	1:E:575:GLN:HG3	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:165:MET:HG3	1:F:307:TRP:CE3	2.38	0.58
1:F:231:THR:HG23	1:F:249:ARG:HE	1.68	0.58
1:F:232:ALA:O	1:F:233:PHE:HB2	2.04	0.58
1:H:231:THR:HG23	1:H:249:ARG:HE	1.68	0.58
1:I:347:LYS:HG3	1:I:392:TYR:O	2.04	0.58
1:I:427:GLY:O	1:I:429:GLN:N	2.37	0.58
1:J:232:ALA:O	1:J:233:PHE:HB2	2.04	0.58
1:K:138:THR:OG1	1:K:143:VAL:HA	2.03	0.58
1:L:347:LYS:HG3	1:L:392:TYR:O	2.04	0.58
1:A:347:LYS:HG3	1:A:392:TYR:O	2.04	0.58
1:B:427:GLY:O	1:B:429:GLN:N	2.37	0.58
1:C:347:LYS:HG3	1:C:392:TYR:O	2.04	0.58
1:C:434:THR:HG21	1:D:72:ARG:HG2	1.85	0.58
1:E:270:GLN:O	1:E:271:ILE:HD13	2.04	0.58
1:F:158:TRP:HD1	1:F:158:TRP:H	1.50	0.58
1:G:427:GLY:O	1:G:429:GLN:N	2.37	0.58
1:H:270:GLN:O	1:H:271:ILE:HD13	2.04	0.58
1:H:347:LYS:HG3	1:H:392:TYR:O	2.04	0.58
1:I:158:TRP:CD1	1:I:158:TRP:H	2.22	0.58
1:J:328:ARG:HA	1:J:331:ASN:HD22	1.67	0.58
1:J:444:LEU:C	1:J:446:THR:N	2.60	0.58
1:K:443:ASP:C	1:K:444:LEU:HD13	2.29	0.58
1:L:158:TRP:CD1	1:L:158:TRP:H	2.22	0.58
1:L:273:ARG:O	1:L:274:ARG:HB2	2.02	0.58
1:B:24:GLU:C	1:B:26:ARG:N	2.59	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:C:427:GLY:O	1:C:429:GLN:N	2.37	0.58
1:C:535:ILE:CD1	1:C:554:LEU:HG	2.34	0.58
1:D:27:ARG:HB2	1:D:313:LYS:HE3	1.85	0.58
1:D:35:PHE:C	1:D:37:ARG:N	2.58	0.58
1:F:161:ASN:C	1:F:161:ASN:HD22	2.12	0.58
1:F:347:LYS:HG3	1:F:392:TYR:O	2.04	0.58
1:G:443:ASP:C	1:G:444:LEU:HD13	2.29	0.58
1:H:45:LEU:CD2	1:H:328:ARG:HH21	2.17	0.58
1:H:379:GLU:O	1:H:380:ASN:CB	2.52	0.58
1:H:443:ASP:C	1:H:444:LEU:HD13	2.29	0.58
1:H:535:ILE:CD1	1:H:554:LEU:HG	2.34	0.58
1:I:27:ARG:HB2	1:I:313:LYS:HE3	1.85	0.58
1:K:312:ASP:OD2	1:L:178:SER:HB2	2.04	0.58
1:K:553:LEU:HB2	1:K:576:LEU:HD21	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:270:GLN:O	1:L:271:ILE:HD13	2.04	0.58
1:L:553:LEU:HB2	1:L:576:LEU:HD21	1.85	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:B:232:ALA:O	1:B:233:PHE:HB2	2.04	0.58
1:B:379:GLU:O	1:B:380:ASN:CB	2.52	0.58
1:C:216:THR:HB	1:C:218:GLN:OE1	2.04	0.58
1:C:400:ALA:HB2	1:D:395:PRO:HB2	1.85	0.58
1:D:138:THR:OG1	1:D:143:VAL:HA	2.03	0.58
1:D:379:GLU:O	1:D:380:ASN:CB	2.52	0.58
1:E:78:VAL:HG12	1:E:79:LEU:H	1.68	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:I:306:GLU:OE2	1:J:65:ARG:HG2	2.02	0.58
1:J:427:GLY:O	1:J:429:GLN:N	2.37	0.58
1:K:45:LEU:CD2	1:K:328:ARG:HH21	2.17	0.58
1:K:232:ALA:O	1:K:233:PHE:HB2	2.04	0.58
1:K:427:GLY:O	1:K:429:GLN:N	2.37	0.58
1:A:27:ARG:HB2	1:A:313:LYS:HE3	1.85	0.58
1:A:270:GLN:O	1:A:271:ILE:HD13	2.04	0.58
1:B:273:ARG:O	1:B:274:ARG:HB2	2.02	0.58
1:C:138:THR:OG1	1:C:143:VAL:HA	2.03	0.58
1:F:45:LEU:CD2	1:F:328:ARG:HH21	2.17	0.58
1:F:270:GLN:O	1:F:271:ILE:HD13	2.04	0.58
1:F:443:ASP:C	1:F:444:LEU:HD13	2.29	0.58
1:I:231:THR:HG23	1:I:249:ARG:HE	1.68	0.58
1:K:216:THR:HB	1:K:218:GLN:OE1	2.04	0.58
1:L:535:ILE:CD1	1:L:554:LEU:HG	2.34	0.58
1:C:270:GLN:O	1:C:271:ILE:HD13	2.04	0.57
1:D:444:LEU:C	1:D:446:THR:N	2.60	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:I:216:THR:HB	1:I:218:GLN:OE1	2.04	0.57
1:A:427:GLY:C	1:A:429:GLN:N	2.60	0.57
1:B:553:LEU:HB2	1:B:576:LEU:HD21	1.86	0.57
1:C:379:GLU:O	1:C:380:ASN:CB	2.52	0.57
1:D:443:ASP:C	1:D:444:LEU:HD13	2.29	0.57
1:E:232:ALA:O	1:E:233:PHE:HB2	2.04	0.57
1:E:535:ILE:CD1	1:E:554:LEU:HG	2.34	0.57
1:H:216:THR:HB	1:H:218:GLN:OE1	2.04	0.57
1:I:118:GLN:NE2	1:I:303:VAL:HB	2.18	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:161:ASN:C	1:I:161:ASN:ND2	2.60	0.57
1:I:232:ALA:O	1:I:233:PHE:HB2	2.04	0.57
1:J:45:LEU:CD2	1:J:328:ARG:HH21	2.17	0.57
1:J:78:VAL:HG12	1:J:79:LEU:H	1.68	0.57
1:J:270:GLN:O	1:J:271:ILE:HD13	2.04	0.57
1:L:78:VAL:HG12	1:L:79:LEU:H	1.68	0.57
1:B:209:PHE:HA	1:B:211:TRP:CE2	2.40	0.57
1:B:347:LYS:HG3	1:B:392:TYR:O	2.04	0.57
1:C:444:LEU:C	1:C:446:THR:N	2.60	0.57
1:D:27:ARG:CZ	1:E:211:TRP:HB3	2.34	0.57
1:D:309:PHE:HB2	1:E:150:HIS:HB3	1.86	0.57
1:D:352:TRP:HZ2	1:E:385:PRO:HG2	1.62	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:G:78:VAL:HG12	1:G:79:LEU:H	1.68	0.57
1:G:216:THR:HB	1:G:218:GLN:OE1	2.04	0.57
1:I:45:LEU:CD2	1:I:328:ARG:HH21	2.16	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:K:535:ILE:CD1	1:K:554:LEU:HG	2.34	0.57
1:L:209:PHE:HA	1:L:211:TRP:CE2	2.40	0.57
1:A:216:THR:HB	1:A:218:GLN:OE1	2.04	0.57
1:B:161:ASN:C	1:B:161:ASN:HD22	2.11	0.57
1:B:443:ASP:C	1:B:444:LEU:HD13	2.29	0.57
1:B:554:LEU:HD22	1:C:567:MET:CE	2.35	0.57
1:F:553:LEU:HB2	1:F:576:LEU:HD21	1.86	0.57
1:G:422:THR:HG22	1:G:425:VAL:HG22	1.87	0.57
1:G:546:THR:HG23	1:G:547:PRO:CD	2.29	0.57
1:I:270:GLN:O	1:I:271:ILE:HD13	2.04	0.57
1:J:161:ASN:C	1:J:161:ASN:ND2	2.60	0.57
1:K:379:GLU:O	1:K:380:ASN:CB	2.52	0.57
1:K:422:THR:HG22	1:K:425:VAL:HG22	1.87	0.57
1:L:161:ASN:C	1:L:161:ASN:HD22	2.12	0.57
1:L:379:GLU:O	1:L:380:ASN:CB	2.52	0.57
1:D:399:GLN:HB3	1:E:396:GLU:HA	1.87	0.57
1:E:161:ASN:C	1:E:161:ASN:HD22	2.12	0.57
1:E:209:PHE:HA	1:E:211:TRP:CE2	2.40	0.57
1:E:444:LEU:C	1:E:446:THR:N	2.60	0.57
1:G:209:PHE:HA	1:G:211:TRP:CE2	2.40	0.57
1:G:273:ARG:O	1:G:274:ARG:HB2	2.02	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:553:LEU:HB2	1:H:576:LEU:HD21	1.85	0.57
1:J:535:ILE:CD1	1:J:554:LEU:HG	2.34	0.57
1:J:553:LEU:HB2	1:J:576:LEU:HD21	1.85	0.57
1:A:11:ILE:HD12	1:A:285:ALA:CA	2.31	0.57
1:B:248:LYS:H	1:B:248:LYS:HD2	1.70	0.57
1:C:45:LEU:CD2	1:C:328:ARG:HH21	2.17	0.57
1:C:161:ASN:C	1:C:161:ASN:HD22	2.12	0.57
1:F:92:ASP:HB3	1:G:561:ASP:OD2	2.05	0.57
1:I:209:PHE:HA	1:I:211:TRP:CE2	2.40	0.57
1:I:443:ASP:C	1:I:444:LEU:HD13	2.29	0.57
1:J:101:ASP:HB3	1:J:138:THR:HG21	1.87	0.57
1:J:246:TYR:HE2	1:J:512:GLY:N	2.03	0.57
1:J:443:ASP:C	1:J:444:LEU:HD13	2.29	0.57
1:L:231:THR:HG23	1:L:249:ARG:HE	1.68	0.57
1:L:248:LYS:H	1:L:248:LYS:HD2	1.70	0.57
1:A:535:ILE:CD1	1:A:554:LEU:HG	2.34	0.57
1:B:422:THR:HG22	1:B:425:VAL:HG22	1.87	0.57
1:D:101:ASP:HB3	1:D:138:THR:HG21	1.87	0.57
1:D:209:PHE:HA	1:D:211:TRP:CE2	2.40	0.57
1:E:347:LYS:HG3	1:E:392:TYR:O	2.04	0.57
1:E:634:ILE:HA	1:E:637:ALA:HB3	1.87	0.57
1:F:248:LYS:H	1:F:248:LYS:HD2	1.70	0.57
1:G:101:ASP:HB3	1:G:138:THR:HG21	1.87	0.57
1:H:232:ALA:O	1:H:233:PHE:HB2	2.04	0.57
1:H:427:GLY:O	1:H:429:GLN:N	2.37	0.57
1:K:440:MET:O	1:K:444:LEU:HD22	2.05	0.57
1:L:246:TYR:HE2	1:L:512:GLY:N	2.03	0.57
1:A:232:ALA:O	1:A:233:PHE:HB2	2.04	0.57
1:A:379:GLU:O	1:A:380:ASN:CB	2.52	0.57
1:A:444:LEU:C	1:A:446:THR:N	2.60	0.57
1:A:634:ILE:HA	1:A:637:ALA:HB3	1.87	0.57
1:B:78:VAL:HG12	1:B:79:LEU:H	1.68	0.57
1:B:101:ASP:HB3	1:B:138:THR:HG21	1.87	0.57
1:C:248:LYS:H	1:C:248:LYS:HD2	1.70	0.57
1:D:427:GLY:C	1:D:429:GLN:N	2.60	0.57
1:F:216:THR:HB	1:F:218:GLN:OE1	2.04	0.57
1:F:535:ILE:CD1	1:F:554:LEU:HG	2.34	0.57
1:F:634:ILE:HA	1:F:637:ALA:HB3	1.87	0.57
1:G:444:LEU:C	1:G:446:THR:N	2.60	0.57
1:G:634:ILE:HA	1:G:637:ALA:HB3	1.87	0.57
1:J:422:THR:HG22	1:J:425:VAL:HG22	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:248:LYS:H	1:K:248:LYS:HD2	1.70	0.57
1:L:232:ALA:O	1:L:233:PHE:HB2	2.04	0.57
1:A:443:ASP:C	1:A:444:LEU:HD13	2.29	0.57
1:A:564:GLY:HA2	1:L:554:LEU:HD21	1.86	0.57
1:B:216:THR:HB	1:B:218:GLN:OE1	2.04	0.57
1:B:535:ILE:CD1	1:B:554:LEU:HG	2.34	0.57
1:B:634:ILE:HA	1:B:637:ALA:HB3	1.87	0.57
1:B:643:ASN:O	1:B:647:ALA:N	2.36	0.57
1:C:78:VAL:HG12	1:C:79:LEU:H	1.69	0.57
1:C:443:ASP:C	1:C:444:LEU:HD13	2.29	0.57
1:D:24:GLU:C	1:D:26:ARG:N	2.59	0.57
1:D:353:PRO:HD3	1:E:374:LEU:O	2.04	0.57
1:D:634:ILE:HA	1:D:637:ALA:HB3	1.87	0.57
1:E:440:MET:O	1:E:444:LEU:HD22	2.05	0.57
1:E:443:ASP:C	1:E:444:LEU:HD13	2.29	0.57
1:F:78:VAL:HG12	1:F:79:LEU:H	1.68	0.57
1:G:539:LEU:HD21	1:G:551:LEU:CB	2.35	0.57
1:H:101:ASP:HB3	1:H:138:THR:HG21	1.87	0.57
1:I:82:PRO:HD2	1:J:560:LEU:CD1	2.18	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:J:440:MET:O	1:J:444:LEU:HD22	2.05	0.57
1:K:634:ILE:HA	1:K:637:ALA:HB3	1.87	0.57
1:L:138:THR:OG1	1:L:143:VAL:HA	2.03	0.57
1:L:427:GLY:O	1:L:429:GLN:N	2.37	0.57
1:A:345:PRO:HB3	1:B:372:TYR:OH	2.05	0.57
1:B:246:TYR:HE2	1:B:512:GLY:N	2.03	0.57
1:D:232:ALA:O	1:D:233:PHE:HB2	2.04	0.57
1:E:216:THR:HB	1:E:218:GLN:OE1	2.04	0.57
1:F:246:TYR:HE2	1:F:512:GLY:N	2.03	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:H:78:VAL:HG12	1:H:79:LEU:H	1.68	0.57
1:H:158:TRP:CD1	1:H:158:TRP:H	2.22	0.57
1:I:246:TYR:HE2	1:I:512:GLY:N	2.03	0.57
1:J:216:THR:HB	1:J:218:GLN:OE1	2.04	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:K:246:TYR:HE2	1:K:512:GLY:N	2.03	0.57
1:L:24:GLU:C	1:L:26:ARG:N	2.59	0.57
1:L:440:MET:O	1:L:444:LEU:HD22	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:443:ASP:C	1:L:444:LEU:HD13	2.29	0.57
1:L:546:THR:HG23	1:L:547:PRO:CD	2.29	0.57
1:A:84:ASP:OD1	1:B:526:SER:HB2	2.05	0.56
1:A:101:ASP:HB3	1:A:138:THR:HG21	1.87	0.56
1:A:561:ASP:OD2	1:L:92:ASP:CB	2.47	0.56
1:B:602:GLY:O	1:B:603:GLN:C	2.48	0.56
1:C:66:LYS:HZ3	1:C:420:VAL:HG11	1.69	0.56
1:C:539:LEU:HD21	1:C:551:LEU:CB	2.35	0.56
1:D:535:ILE:CD1	1:D:554:LEU:HG	2.34	0.56
1:F:158:TRP:CD1	1:F:158:TRP:H	2.22	0.56
1:F:444:LEU:C	1:F:446:THR:H	2.13	0.56
1:F:546:THR:HG23	1:F:547:PRO:CD	2.29	0.56
1:G:248:LYS:H	1:G:248:LYS:HD2	1.70	0.56
1:H:209:PHE:HA	1:H:211:TRP:CE2	2.40	0.56
1:H:411:ALA:CB	1:I:57:PHE:CD1	2.88	0.56
1:H:440:MET:O	1:H:444:LEU:HD22	2.05	0.56
1:I:161:ASN:C	1:I:161:ASN:HD22	2.12	0.56
1:I:440:MET:O	1:I:444:LEU:HD22	2.05	0.56
1:I:539:LEU:HD21	1:I:551:LEU:CB	2.35	0.56
1:K:270:GLN:O	1:K:271:ILE:HD13	2.04	0.56
1:L:634:ILE:HA	1:L:637:ALA:HB3	1.87	0.56
1:A:553:LEU:HB2	1:A:576:LEU:HD21	1.85	0.56
1:C:444:LEU:C	1:C:446:THR:H	2.13	0.56
1:C:602:GLY:O	1:C:603:GLN:C	2.48	0.56
1:D:161:ASN:C	1:D:161:ASN:HD22	2.12	0.56
1:E:11:ILE:HD12	1:E:285:ALA:CA	2.31	0.56
1:E:379:GLU:O	1:E:380:ASN:CB	2.52	0.56
1:E:539:LEU:HD21	1:E:551:LEU:CB	2.35	0.56
1:E:553:LEU:HB2	1:E:576:LEU:HD21	1.85	0.56
1:F:444:LEU:C	1:F:446:THR:N	2.60	0.56
1:G:270:GLN:O	1:G:271:ILE:HD13	2.04	0.56
1:H:35:PHE:C	1:H:37:ARG:N	2.58	0.56
1:I:27:ARG:HG2	1:J:212:LEU:HD13	1.87	0.56
1:I:535:ILE:CD1	1:I:554:LEU:HG	2.34	0.56
1:I:602:GLY:O	1:I:603:GLN:C	2.48	0.56
1:J:379:GLU:O	1:J:380:ASN:CB	2.52	0.56
1:L:444:LEU:C	1:L:446:THR:H	2.13	0.56
1:L:539:LEU:HD21	1:L:551:LEU:CB	2.35	0.56
1:A:161:ASN:C	1:A:161:ASN:HD22	2.12	0.56
1:A:246:TYR:HE2	1:A:512:GLY:N	2.03	0.56
1:A:248:LYS:H	1:A:248:LYS:HD2	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:C:164:LEU:HA	1:C:307:TRP:HH2	1.70	0.56
1:C:440:MET:O	1:C:444:LEU:HD22	2.05	0.56
1:C:634:ILE:HA	1:C:637:ALA:HB3	1.87	0.56
1:D:216:THR:HB	1:D:218:GLN:OE1	2.04	0.56
1:D:553:LEU:HB2	1:D:576:LEU:HD21	1.86	0.56
1:D:602:GLY:O	1:D:603:GLN:C	2.48	0.56
1:E:325:ASP:OD2	1:F:56:GLN:HB2	2.05	0.56
1:E:380:ASN:O	1:E:381:SER:HB3	2.06	0.56
1:E:422:THR:HG22	1:E:425:VAL:HG22	1.87	0.56
1:E:427:GLY:C	1:E:429:GLN:N	2.60	0.56
1:F:66:LYS:HZ3	1:F:420:VAL:CG2	2.17	0.56
1:F:101:ASP:HB3	1:F:138:THR:HG21	1.87	0.56
1:F:209:PHE:HA	1:F:211:TRP:CE2	2.40	0.56
1:F:546:THR:O	1:F:550:GLN:OE1	2.24	0.56
1:F:554:LEU:HD21	1:G:564:GLY:CA	2.28	0.56
1:F:602:GLY:O	1:F:603:GLN:C	2.48	0.56
1:G:232:ALA:O	1:G:233:PHE:HB2	2.04	0.56
1:H:248:LYS:H	1:H:248:LYS:HD2	1.70	0.56
1:I:24:GLU:C	1:I:26:ARG:N	2.59	0.56
1:I:66:LYS:HZ3	1:I:420:VAL:HG11	1.68	0.56
1:I:101:ASP:HB3	1:I:138:THR:HG21	1.87	0.56
1:I:248:LYS:H	1:I:248:LYS:HD2	1.70	0.56
1:I:444:LEU:C	1:I:446:THR:N	2.60	0.56
1:J:71:MET:HE3	1:J:115:VAL:HB	1.88	0.56
1:J:634:ILE:HA	1:J:637:ALA:HB3	1.87	0.56
1:K:411:ALA:CB	1:L:57:PHE:HD1	2.19	0.56
1:A:602:GLY:O	1:A:603:GLN:C	2.48	0.56
1:B:158:TRP:CD1	1:B:158:TRP:H	2.22	0.56
1:C:209:PHE:HA	1:C:211:TRP:CE2	2.40	0.56
1:D:404:MET:SD	1:E:337:ASN:HB2	2.44	0.56
1:D:422:THR:HG22	1:D:425:VAL:HG22	1.87	0.56
1:D:440:MET:O	1:D:444:LEU:HD22	2.05	0.56
1:F:422:THR:HG22	1:F:425:VAL:HG22	1.87	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:H:539:LEU:HD21	1:H:551:LEU:CB	2.35	0.56
1:J:438:LEU:HD11	1:K:108:LYS:NZ	2.21	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:45:LEU:CD2	1:L:328:ARG:HH21	2.17	0.56
1:L:216:THR:HB	1:L:218:GLN:OE1	2.04	0.56
1:B:158:TRP:H	1:B:158:TRP:HD1	1.50	0.56
1:B:539:LEU:HD21	1:B:551:LEU:CB	2.35	0.56
1:D:427:GLY:O	1:D:429:GLN:N	2.37	0.56
1:E:27:ARG:HD2	1:F:212:LEU:H	1.70	0.56
1:F:164:LEU:HA	1:F:307:TRP:HH2	1.71	0.56
1:F:440:MET:O	1:F:444:LEU:HD22	2.05	0.56
1:G:306:GLU:OE2	1:H:65:ARG:HG2	2.05	0.56
1:H:161:ASN:C	1:H:161:ASN:HD22	2.12	0.56
1:H:634:ILE:HA	1:H:637:ALA:HB3	1.87	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:K:49:THR:O	1:K:49:THR:CG2	2.54	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:K:427:GLY:C	1:K:429:GLN:N	2.60	0.56
1:L:66:LYS:HZ3	1:L:420:VAL:HG11	1.69	0.56
1:A:158:TRP:CD1	1:A:158:TRP:H	2.22	0.56
1:A:238:PRO:HG3	1:A:263:PHE:HB3	1.88	0.56
1:C:71:MET:HE3	1:C:115:VAL:HB	1.88	0.56
1:C:78:VAL:CG1	1:C:79:LEU:N	2.69	0.56
1:C:101:ASP:HB3	1:C:138:THR:HG21	1.87	0.56
1:C:232:ALA:O	1:C:233:PHE:HB2	2.04	0.56
1:C:380:ASN:O	1:C:381:SER:HB3	2.06	0.56
1:D:546:THR:HG23	1:D:547:PRO:CD	2.29	0.56
1:F:337:ASN:ND2	1:F:401:ASN:HD22	2.04	0.56
1:H:78:VAL:CG1	1:H: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:I:238:PRO:HG3	1:I:263:PHE:HB3	1.88	0.56
1:I:422:THR:HG22	1:I:425:VAL:HG22	1.87	0.56
1:I:546:THR:O	1:I:550:GLN:OE1	2.24	0.56
1:J:158:TRP:CD1	1:J:158:TRP:H	2.22	0.56
1:K:380:ASN:O	1:K:381:SER:HB3	2.06	0.56
1:L:602:GLY:O	1:L:603:GLN:C	2.48	0.56
1:A:236:GLN:CB	1:A:265:LYS:HG2	2.36	0.56
1:A:422:THR:HG22	1:A:425:VAL:HG22	1.87	0.56
1:B:236:GLN:CB	1:B:265:LYS:HG2	2.36	0.56
1:C:238:PRO:HG3	1:C:263:PHE:HB3	1.88	0.56
1:C:411:ALA:HA	1:C:414:GLU:HG3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:71:MET:HE3	1:D:115:VAL:HB	1.88	0.56
1:E:411:ALA:HA	1:E:414:GLU:HG3	1.88	0.56
1:F:78:VAL:CG1	1:F:79:LEU:N	2.69	0.56
1:F:325:ASP:OD2	1:G:56:GLN:HB2	2.05	0.56
1:F:348:LYS:HB3	1:G:371:TYR:HA	1.86	0.56
1:G:161:ASN:C	1:G:161:ASN:HD22	2.12	0.56
1:H:236:GLN:CB	1:H:265:LYS:HG2	2.36	0.56
1:K:444:LEU:C	1:K:446:THR:H	2.13	0.56
1:L:164:LEU:HA	1:L:307:TRP:HH2	1.71	0.56
1:L:411:ALA:HA	1:L:414:GLU:HG3	1.88	0.56
1:L:422:THR:HG22	1:L:425:VAL:HG22	1.87	0.56
1:L:546:THR:O	1:L:550:GLN:OE1	2.24	0.56
1:D:144:ILE:HD12	1:D:145:ARG:N	2.21	0.56
1:D:238:PRO:HG3	1:D:263:PHE:HB3	1.88	0.56
1:E:78:VAL:CG1	1:E:79:LEU:N	2.69	0.56
1:E:164:LEU:HA	1:E:307:TRP:HH2	1.71	0.56
1:F:77:ASP:HB2	1:F:523:SER:CB	2.36	0.56
1:G:379:GLU:O	1:G:380:ASN:CB	2.52	0.56
1:G:444:LEU:C	1:G:446:THR:H	2.13	0.56
1:H:144:ILE:HD12	1:H:145:ARG:N	2.21	0.56
1:J:602:GLY:O	1:J:603:GLN:C	2.48	0.56
1:K:77:ASP:HB2	1:K:523:SER:CB	2.36	0.56
1:L:101:ASP:HB3	1:L:138:THR:HG21	1.87	0.56
1:L:337:ASN:ND2	1:L:401:ASN:HD22	2.04	0.56
1:A:444:LEU:C	1:A:446:THR:H	2.13	0.56
1:B:434:THR:HG21	1:C:72:ARG:HG2	1.87	0.56
1:C:77:ASP:HB2	1:C:523:SER:CB	2.36	0.56
1:D:49:THR:O	1:D:49:THR:CG2	2.54	0.56
1:D:236:GLN:CB	1:D:265:LYS:HG2	2.36	0.56
1:D:246:TYR:HE2	1:D:512:GLY:N	2.03	0.56
1:E:236:GLN:CB	1:E:265:LYS:HG2	2.36	0.56
1:F:71:MET:HE3	1:F:115:VAL:HB	1.88	0.56
1:G:45:LEU:CD2	1:G:328:ARG:HH21	2.17	0.56
1:H:422:THR:HG22	1:H:425:VAL:HG22	1.87	0.56
1:H:700:GLN:O	1:H:701:ARG:C	2.49	0.56
1:I:71:MET:HE3	1:I:115:VAL:HB	1.88	0.56
1:I:700:GLN:O	1:I:701:ARG:C	2.49	0.56
1:J:164:LEU:HA	1:J:307:TRP:HH2	1.71	0.56
1:J:209:PHE:HA	1:J:211:TRP:CE2	2.40	0.56
1:J:400:ALA:CB	1:K:395:PRO:HB2	2.36	0.56
1:K:164:LEU:HA	1:K:307:TRP:HH2	1.71	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:411:ALA:HA	1:B:414:GLU:HG3	1.88	0.56
1:B:546:THR:O	1:B:550:GLN:OE1	2.24	0.56
1:C:158:TRP:CD1	1:C:158:TRP:H	2.22	0.56
1:C:246:TYR:HE2	1:C:512:GLY:N	2.03	0.56
1:C:376:ARG:HG2	1:C:377:THR:HG23	1.88	0.56
1:D:248:LYS:H	1:D:248:LYS:HD2	1.70	0.56
1:D:411:ALA:HA	1:D:414:GLU:HG3	1.88	0.56
1:D:539:LEU:HD21	1:D:551:LEU:CB	2.35	0.56
1:E:45:LEU:CD2	1:E:328:ARG:HH21	2.17	0.56
1:E:49:THR:O	1:E:49:THR:CG2	2.54	0.56
1:E:161:ASN:C	1:E:161:ASN:ND2	2.60	0.56
1:E:248:LYS:H	1:E:248:LYS:HD2	1.70	0.56
1:F:49:THR:O	1:F:49:THR:CG2	2.54	0.56
1:G:49:THR:O	1:G:49:THR:CG2	2.54	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:G:546:THR:O	1:G:550:GLN:OE1	2.24	0.56
1:G:700:GLN:O	1:G:701:ARG:C	2.49	0.56
1:J:77:ASP:HB2	1:J:523:SER:CB	2.36	0.56
1:K:66:LYS:HZ3	1:K:420:VAL:CG1	2.19	0.56
1:K:539:LEU:HD21	1:K:551:LEU:CB	2.35	0.56
1:A:77:ASP:HB2	1:A:523:SER:CB	2.36	0.55
1:A:78:VAL:CG1	1:A:79:LEU:N	2.69	0.55
1:A:108:LYS:HD2	1:L:438:LEU:HD11	1.87	0.55
1:A:546:THR:O	1:A:550:GLN:OE1	2.24	0.55
1:A:643:ASN:O	1:A:647:ALA:N	2.36	0.55
1:B:71:MET:HE3	1:B:115:VAL:HB	1.88	0.55
1:B:89:ASP:CA	1:C:561:ASP:HB2	2.34	0.55
1:B:440:MET:O	1:B:444:LEU:HD22	2.05	0.55
1:B:700:GLN:O	1:B:701:ARG:C	2.49	0.55
1:D:380:ASN:O	1:D:381:SER:HB3	2.06	0.55
1:F:379:GLU:O	1:F:380:ASN:CB	2.52	0.55
1:F:643:ASN:O	1:F:647:ALA:N	2.36	0.55
1:G:158:TRP:HH2	1:G:302:PRO:HG3	1.71	0.55
1:H:337:ASN:ND2	1:H:401:ASN:HD22	2.04	0.55
1:H:602:GLY:O	1:H:603:GLN:C	2.48	0.55
1:I:78:VAL:CG1	1:I:79:LEU:N	2.69	0.55
1:J:66:LYS:HZ1	1:J:420:VAL:CG2	2.18	0.55
1:K:700:GLN:O	1:K:701:ARG:C	2.49	0.55
1:L:41:TRP:HE3	1:L:42:ASP:O	1.82	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:535:ILE:HD11	1:L:554:LEU:HG	1.88	0.55
1:L:700:GLN:O	1:L:701:ARG:C	2.49	0.55
1:A:164:LEU:HA	1:A:307:TRP:HH2	1.71	0.55
1:A:209:PHE:HA	1:A:211:TRP:CE2	2.40	0.55
1:A:539:LEU:HD21	1:A:551:LEU:CB	2.35	0.55
1:A:567:MET:CE	1:L:554:LEU:HD22	2.34	0.55
1:B:11:ILE:HD12	1:B:285:ALA:CA	2.31	0.55
1:B:238:PRO:HG3	1:B:263:PHE:HB3	1.88	0.55
1:C:236:GLN:CB	1:C:265:LYS:HG2	2.36	0.55
1:C:535:ILE:HD11	1:C:554:LEU:HG	1.89	0.55
1:C:546:THR:O	1:C:550:GLN:OE1	2.24	0.55
1:D:546:THR:O	1:D:550:GLN:OE1	2.24	0.55
1:D:633:GLN:O	1:D:637:ALA:N	2.35	0.55
1:E:376:ARG:HG2	1:E:377:THR:HG23	1.88	0.55
1:F:236:GLN:CB	1:F:265:LYS:HG2	2.36	0.55
1:F:539:LEU:HD21	1:F:551:LEU:CB	2.35	0.55
1:G:411:ALA:HA	1:G:414:GLU:HG3	1.88	0.55
1:H:41:TRP:HE3	1:H:42:ASP:O	1.82	0.55
1:H:77:ASP:HB2	1:H:523:SER:CB	2.36	0.55
1:H:546:THR:O	1:H:550:GLN:OE1	2.24	0.55
1:H:643:ASN:O	1:H:647:ALA:N	2.36	0.55
1:I:164:LEU:HA	1:I:307:TRP:HH2	1.71	0.55
1:K:236:GLN:CB	1:K:265:LYS:HG2	2.36	0.55
1:K:383:ASP:C	1:K:385:PRO:HD3	2.32	0.55
1:L:78:VAL:CG1	1:L:79:LEU:N	2.69	0.55
1:L:144:ILE:HD12	1:L:145:ARG:N	2.21	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:C:136:SER:N	1:C:137:PRO:HD3	2.21	0.55
1:E:144:ILE:HD12	1:E:145:ARG:N	2.21	0.55
1:E:383:ASP:C	1:E:385:PRO:HD3	2.32	0.55
1:E:444:LEU:C	1:E:446:THR:H	2.13	0.55
1:F:238:PRO:HG3	1:F:263:PHE:HB3	1.88	0.55
1:G:534:GLU:O	1:G:538:LEU:HD23	2.07	0.55
1:H:376:ARG:HG2	1:H:377:THR:HG23	1.88	0.55
1:I:444:LEU:C	1:I:446:THR:H	2.13	0.55
1:K:71:MET:HE3	1:K:115:VAL:HB	1.88	0.55
1:K:534:GLU:O	1:K:538:LEU:HD23	2.07	0.55
1:L:236:GLN:CB	1:L:265:LYS:HG2	2.36	0.55
1:A:633:GLN:O	1:A:637:ALA:N	2.35	0.55
1:B:118:GLN:CA	1:B:123:VAL:O	2.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:136:SER:N	1:B:137:PRO:HD3	2.21	0.55
1:B:158:TRP:HH2	1:B:302:PRO:HG3	1.71	0.55
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:F:136:SER:N	1:F:137:PRO:HD3	2.21	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:F:534:GLU:O	1:F:538:LEU:HD23	2.07	0.55
1:G:78:VAL:CG1	1:G:79:LEU:N	2.69	0.55
1:H:238:PRO:HG3	1:H:263:PHE:HB3	1.88	0.55
1:I:352:TRP:HD1	1:J:374:LEU:O	1.90	0.55
1:J:383:ASP:C	1:J:385:PRO:HD3	2.32	0.55
1:K:144:ILE:HD12	1:K:145:ARG:N	2.21	0.55
1:L:383:ASP:C	1:L:385:PRO:HD3	2.32	0.55
1:A:38:VAL:HG21	1:A:324:LYS:HD2	1.89	0.55
1:A:248:LYS:HD3	1:A:251:ILE:HB	1.89	0.55
1:A:534:GLU:O	1:A:538:LEU:HD23	2.07	0.55
1:C:248:LYS:HD3	1:C:251:ILE:HB	1.89	0.55
1:C:422:THR:HG22	1:C:425:VAL:HG22	1.87	0.55
1:D:158:TRP:CD1	1:D:158:TRP:H	2.22	0.55
1:D:164:LEU:HA	1:D:307:TRP:HH2	1.70	0.55
1:D:360:GLU:HB2	1:E:371:TYR:OH	2.07	0.55
1:D:700:GLN:O	1:D:701:ARG:C	2.49	0.55
1:F:118:GLN:CA	1:F:123:VAL:O	2.55	0.55
1:F:144:ILE:HD12	1:F:145:ARG:N	2.21	0.55
1:F:248:LYS:HD3	1:F:251:ILE:HB	1.89	0.55
1:G:136:SER:N	1:G:137:PRO:HD3	2.21	0.55
1:I:379:GLU:O	1:I:380:ASN:CB	2.52	0.55
1:I:383:ASP:C	1:I:385:PRO:HD3	2.32	0.55
1:I:535:ILE:HD11	1:I:554:LEU:HG	1.89	0.55
1:J:700:GLN:O	1:J:701:ARG:C	2.49	0.55
1:A:136:SER:N	1:A:137:PRO:HD3	2.21	0.55
1:A:144:ILE:HD12	1:A:145:ARG:N	2.21	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
1:B:383:ASP:C	1:B:385:PRO:HD3	2.32	0.55
1:B:386:THR:O	1:B:387:GLN:C	2.50	0.55
1:C:118:GLN:CA	1:C:123:VAL:O	2.55	0.55
1:C:144:ILE:HD12	1:C:145:ARG:N	2.21	0.55
1:D:534:GLU:O	1:D:538:LEU:HD23	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:534:GLU:O	1:E:538:LEU:HD23	2.07	0.55
1:H:118:GLN:CA	1:H:123:VAL:O	2.55	0.55
1:H:380:ASN:O	1:H:381:SER:HB3	2.06	0.55
1:H:386:THR:O	1:H:387:GLN:C	2.50	0.55
1:I:634:ILE:HA	1:I:637:ALA:HB3	1.87	0.55
1:A:71:MET:HE3	1:A:115:VAL:HB	1.88	0.55
1:A:348:LYS:HE2	1:B:369:TYR:O	2.07	0.55
1:A:386:THR:O	1:A:387:GLN:C	2.50	0.55
1:B:35:PHE:C	1:B:37:ARG:N	2.58	0.55
1:B:77:ASP:HB2	1:B:523:SER:CB	2.36	0.55
1:B:248:LYS:HD3	1:B:251:ILE:HB	1.89	0.55
1:D:78:VAL:CG1	1:D:79:LEU:N	2.69	0.55
1:D:248:LYS:HD3	1:D:251:ILE:HB	1.89	0.55
1:D:444:LEU:C	1:D:446:THR:H	2.13	0.55
1:E:38:VAL:HG21	1:E:324:LYS:HD2	1.89	0.55
1:E:246:TYR:HE2	1:E:512:GLY:N	2.03	0.55
1:G:380:ASN:O	1:G:381:SER:HB3	2.06	0.55
1:G:440:MET:O	1:G:444:LEU:HD22	2.05	0.55
1:H:411:ALA:HA	1:H:414:GLU:HG3	1.88	0.55
1:I:38:VAL:HG21	1:I:324:LYS:HD2	1.89	0.55
1:I:411:ALA:HA	1:I:414:GLU:HG3	1.88	0.55
1:J:236:GLN:CB	1:J:265:LYS:HG2	2.36	0.55
1:J:376:ARG:HG2	1:J:377:THR:HG23	1.88	0.55
1:K:386:THR:O	1:K:387:GLN:C	2.50	0.55
1:C:89:ASP:CA	1:D:561:ASP:HB2	2.34	0.55
1:C:383:ASP:C	1:C:385:PRO:HD3	2.32	0.55
1:C:557:PHE:CE2	1:D:563:LYS:HD3	2.42	0.55
1:E:113:ILE:O	1:E:117:GLU:HG3	2.07	0.55
1:F:38:VAL:HG21	1:F:324:LYS:HD2	1.89	0.55
1:F:383:ASP:C	1:F:385:PRO:HD3	2.32	0.55
1:F:411:ALA:HA	1:F:414:GLU:HG3	1.88	0.55
1:G:238:PRO:HG3	1:G:263:PHE:HB3	1.88	0.55
1:G:386:THR:O	1:G:387:GLN:C	2.50	0.55
1:H:38:VAL:HG21	1:H:324:LYS:HD2	1.89	0.55
1:I:118:GLN:CA	1:I:123:VAL:O	2.55	0.55
1:I:136:SER:N	1:I:137:PRO:HD3	2.21	0.55
1:I:376:ARG:HG2	1:I:377:THR:HG23	1.88	0.55
1:J:444:LEU:C	1:J:446:THR:H	2.13	0.55
1:K:238:PRO:HG3	1:K:263:PHE:HB3	1.88	0.55
1:L:71:MET:HE3	1:L:115:VAL:HB	1.88	0.55
1:L:139:SER:HB3	1:L:455:THR:CG2	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:560:LEU:O	1:L:561:ASP:O	2.25	0.55
1:B:92:ASP:HB3	1:C:561:ASP:OD2	2.06	0.55
1:B:534:GLU:O	1:B:538:LEU:HD23	2.07	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:F:560:LEU:O	1:F:561:ASP:O	2.25	0.55
1:G:118:GLN:CA	1:G:123:VAL:O	2.55	0.55
1:G:164:LEU:HA	1:G:307:TRP:HH2	1.71	0.55
1:H:383:ASP:C	1:H:385:PRO:HD3	2.32	0.55
1:I:139:SER:HB3	1:I:455:THR:CG2	2.37	0.55
1:I:248:LYS:HD3	1:I:251:ILE:HB	1.89	0.55
1:I:380:ASN:O	1:I:381:SER:HB3	2.06	0.55
1:J:78:VAL:CG1	1:J:79:LEU:N	2.69	0.55
1:J:136:SER:N	1:J:137:PRO:HD3	2.21	0.55
1:J:535:ILE:HD11	1:J:554:LEU:HG	1.89	0.55
1:J:546:THR:O	1:J:550:GLN:OE1	2.24	0.55
1:K:136:SER:N	1:K:137:PRO:HD3	2.21	0.55
1:K:139:SER:HB3	1:K:455:THR:CG2	2.37	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
1:L:427:GLY:C	1:L:429:GLN:N	2.60	0.55
1:L:643:ASN:O	1:L:647:ALA:N	2.36	0.55
1:A:113:ILE:O	1:A:117:GLU:HG3	2.07	0.55
1:A:383:ASP:C	1:A:385:PRO:HD3	2.32	0.55
1:A:560:LEU:O	1:A:561:ASP:O	2.25	0.55
1:B:144:ILE:HD12	1:B:145:ARG:N	2.21	0.55
1:C:348:LYS:HB3	1:D:371:TYR:HA	1.89	0.55
1:D:118:GLN:CA	1:D:123:VAL:O	2.55	0.55
1:D:158:TRP:HH2	1:D:302:PRO:HG3	1.71	0.55
1:D:376:ARG:HG2	1:D:377:THR:HG23	1.88	0.55
1:D:560:LEU:O	1:D:561:ASP:O	2.25	0.55
1:E:136:SER:N	1:E:137:PRO:HD3	2.21	0.55
1:F:535:ILE:HD11	1:F:554:LEU:HG	1.88	0.55
1:G:337:ASN:ND2	1:G:401:ASN:HD22	2.04	0.55
1:G:376:ARG:HG2	1:G:377:THR:HG23	1.88	0.55
1:G:535:ILE:HD11	1:G:554:LEU:HG	1.89	0.55
1:H:462:GLU:O	1:H:497:VAL:HA	2.07	0.55
1:I:236:GLN:CB	1:I:265:LYS:HG2	2.36	0.55
1:J:139:SER:HB3	1:J:455:THR:CG2	2.37	0.55
1:J:238:PRO:HG3	1:J:263:PHE:HB3	1.88	0.55
1:J:560:LEU:O	1:J:561:ASP:O	2.25	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:643:ASN:O	1:J:647:ALA:N	2.36	0.55
1:K:535:ILE:HD11	1:K:554:LEU:HG	1.89	0.55
1:K:602:GLY:O	1:K:603:GLN:C	2.48	0.55
1:L:113:ILE:O	1:L:117:GLU:HG3	2.07	0.55
1:L:136:SER:N	1:L:137:PRO:HD3	2.21	0.55
1:L:238:PRO:HG3	1:L:263:PHE:HB3	1.88	0.55
1:L:386:THR:O	1:L:387:GLN:C	2.50	0.55
1:A:700:GLN:O	1:A:701:ARG:C	2.49	0.54
1:B:380:ASN:O	1:B:381:SER:HB3	2.06	0.54
1:B:411:ALA:CB	1:C:57:PHE:HD1	2.19	0.54
1:C:337:ASN:ND2	1:C:401:ASN:HD22	2.04	0.54
1:C:534:GLU:O	1:C:538:LEU:HD23	2.07	0.54
1:E:118:GLN:CA	1:E:123:VAL:O	2.55	0.54
1:E:248:LYS:HD3	1:E:251:ILE:HB	1.89	0.54
1:H:71:MET:HE3	1:H:115:VAL:HB	1.88	0.54
1:H:534:GLU:O	1:H:538:LEU:HD23	2.07	0.54
1:K:643:ASN:O	1:K:647:ALA:N	2.36	0.54
1:L:38:VAL:HG21	1:L:324:LYS:HD2	1.89	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:C:700:GLN:O	1:C:701:ARG:C	2.49	0.54
1:E:77:ASP:HB2	1:E:523:SER:CB	2.36	0.54
1:E:310:VAL:C	1:E:312:ASP:N	2.66	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:I:208:VAL:HB	1:I:211:TRP:CH2	2.43	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:L:376:ARG:HG2	1:L:377:THR:HG23	1.88	0.54
1:A:27:ARG:HG2	1:B:212:LEU:CD1	2.36	0.54
1:A:40:GLN:O	1:A:41:TRP:CB	2.56	0.54
1:A:139:SER:HB3	1:A:455:THR:CG2	2.37	0.54
1:A:462:GLU:O	1:A:497:VAL:HA	2.07	0.54
1:C:386:THR:O	1:C:387:GLN:C	2.50	0.54
1:C:462:GLU:O	1:C:497:VAL:HA	2.08	0.54
1:D:310:VAL:C	1:D:312:ASP:N	2.66	0.54
1:E:66:LYS:HZ3	1:E:420:VAL:CG1	2.20	0.54
1:E:208:VAL:HB	1:E:211:TRP:CH2	2.43	0.54
1:G:28:GLU:HB2	1:G:313:LYS:HZ2	1.72	0.54
1:G:383:ASP:C	1:G:385:PRO:HD3	2.32	0.54
1:G:560:LEU:O	1:G:561:ASP:O	2.25	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:40:GLN:O	1:H:41:TRP:CB	2.56	0.54
1:H:400:ALA:HB3	1:I:395:PRO:HB2	1.89	0.54
1:I:534:GLU:O	1:I:538:LEU:HD23	2.07	0.54
1:I:554:LEU:HD22	1:J:567:MET:CE	2.37	0.54
1:J:144:ILE:HD12	1:J:145:ARG:N	2.21	0.54
1:J:462:GLU:O	1:J:497:VAL:HA	2.08	0.54
1:K:411:ALA:HB1	1:L:57:PHE:HD1	1.71	0.54
1:L:118:GLN:CA	1:L:123:VAL:O	2.55	0.54
1:A:118:GLN:CA	1:A:123:VAL:O	2.55	0.54
1:A:549:TYR:OH	1:L:547:PRO:HG3	2.06	0.54
1:B:310:VAL:C	1:B:312:ASP:N	2.66	0.54
1:B:560:LEU:O	1:B:561:ASP:O	2.25	0.54
1:C:458:ARG:NH2	1:C:500:ALA:HB1	2.23	0.54
1:D:139:SER:HB3	1:D:455:THR:CG2	2.37	0.54
1:E:71:MET:HE3	1:E:115:VAL:HB	1.88	0.54
1:E:238:PRO:HG3	1:E:263:PHE:HB3	1.88	0.54
1:E:462:GLU:O	1:E:497:VAL:HA	2.08	0.54
1:F:113:ILE:O	1:F:117:GLU:HG3	2.07	0.54
1:F:139:SER:HB3	1:F:455:THR:CG2	2.37	0.54
1:F:165:MET:HE1	1:F:435:VAL:CB	2.37	0.54
1:F:376:ARG:HG2	1:F:377:THR:HG23	1.88	0.54
1:G:71:MET:HE3	1:G:115:VAL:HB	1.88	0.54
1:G:144:ILE:HD12	1:G:145:ARG:N	2.21	0.54
1:H:208:VAL:HB	1:H:211:TRP:CH2	2.43	0.54
1:H:560:LEU:O	1:H:561:ASP:O	2.25	0.54
1:I:144:ILE:HD12	1:I:145:ARG:N	2.21	0.54
1:I:398:PRO:HB3	1:J:395:PRO:HD2	1.88	0.54
1:I:560:LEU:O	1:I:561:ASP:O	2.25	0.54
1:J:158:TRP:HH2	1:J:302:PRO:HG3	1.71	0.54
1:J:248:LYS:HD3	1:J:251:ILE:HB	1.89	0.54
1:J:534:GLU:O	1:J:538:LEU:HD23	2.07	0.54
1:L:444:LEU:C	1:L:446:THR:N	2.60	0.54
1:B:165:MET:HE1	1:B:435:VAL:CB	2.37	0.54
1:B:376:ARG:HG2	1:B:377:THR:HG23	1.88	0.54
1:B:462:GLU:O	1:B:497:VAL:HA	2.08	0.54
1:D:136:SER:N	1:D:137:PRO:HD3	2.21	0.54
1:D:208:VAL:HB	1:D:211:TRP:CH2	2.43	0.54
1:D:404:MET:SD	1:E:337:ASN:CB	2.95	0.54
1:D:535:ILE:HD11	1:D:554:LEU:HG	1.89	0.54
1:E:535:ILE:HD11	1:E:554:LEU:HG	1.89	0.54
1:G:113:ILE:O	1:G:117:GLU:HG3	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:310:VAL:C	1:G:312:ASP:N	2.66	0.54
1:G:602:GLY:O	1:G:603:GLN:C	2.48	0.54
1:K:118:GLN:CA	1:K:123:VAL:O	2.55	0.54
1:L:462:GLU:O	1:L:497:VAL:HA	2.08	0.54
1:A:380:ASN:O	1:A:381:SER:HB3	2.06	0.54
1:A:458:ARG:NH2	1:A:500:ALA:HB1	2.23	0.54
1:B:27:ARG:CZ	1:C:211:TRP:HB3	2.37	0.54
1:B:40:GLN:O	1:B:41:TRP:CB	2.56	0.54
1:D:38:VAL:HG21	1:D:324:LYS:HD2	1.89	0.54
1:D:325:ASP:OD2	1:E:56:GLN:CB	2.52	0.54
1:E:139:SER:HB3	1:E:455:THR:CG2	2.37	0.54
1:F:208:VAL:HB	1:F:211:TRP:CH2	2.43	0.54
1:F:352:TRP:CD1	1:G:374:LEU:O	2.60	0.54
1:F:386:THR:O	1:F:387:GLN:C	2.50	0.54
1:F:458:ARG:NH2	1:F:500:ALA:HB1	2.23	0.54
1:G:390:ALA:CB	1:H:387:GLN:HB2	2.38	0.54
1:H:49:THR:O	1:H:49:THR:CG2	2.54	0.54
1:H:390:ALA:CB	1:I:387:GLN:HB2	2.38	0.54
1:H:565:VAL:HG23	1:H:569:ARG:HH21	1.73	0.54
1:I:49:THR:O	1:I:49:THR:CG2	2.54	0.54
1:I:113:ILE:O	1:I:117:GLU:HG3	2.07	0.54
1:J:208:VAL:HB	1:J:211:TRP:CH2	2.43	0.54
1:J:386:THR:O	1:J:387:GLN:C	2.50	0.54
1:K:376:ARG:HG2	1:K:377:THR:HG23	1.88	0.54
1:L:534:GLU:O	1:L:538:LEU:HD23	2.07	0.54
1:L:633:GLN:O	1:L:637:ALA:N	2.35	0.54
1:B:337:ASN:ND2	1:B:401:ASN:HD22	2.04	0.54
1:C:560:LEU:O	1:C:561:ASP:O	2.25	0.54
1:E:40:GLN:O	1:E:41:TRP:CB	2.56	0.54
1:E:700:GLN:O	1:E:701:ARG:C	2.49	0.54
1:G:458:ARG:NH2	1:G:500:ALA:HB1	2.23	0.54
1:G:643:ASN:O	1:G:647:ALA:N	2.36	0.54
1:H:11:ILE:HD12	1:H:285:ALA:CA	2.31	0.54
1:H:113:ILE:O	1:H:117:GLU:HG3	2.07	0.54
1:I:462:GLU:O	1:I:497:VAL:HA	2.08	0.54
1:J:565:VAL:HG23	1:J:569:ARG:HH21	1.73	0.54
1:L:11:ILE:HD12	1:L:285:ALA:CA	2.31	0.54
1:B:565:VAL:HG23	1:B:569:ARG:HH21	1.73	0.54
1:D:66:LYS:HZ3	1:D:420:VAL:CG2	2.20	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:565:VAL:HG23	1:E:569:ARG:HH21	1.73	0.54
1:F:11:ILE:HD12	1:F:285:ALA:CA	2.31	0.54
1:F:565:VAL:HG23	1:F:569:ARG:HH21	1.73	0.54
1:G:208:VAL:HB	1:G:211:TRP:CH2	2.43	0.54
1:H:66:LYS:HZ3	1:H:420:VAL:CG1	2.20	0.54
1:I:386:THR:O	1:I:387:GLN:C	2.50	0.54
1:K:208:VAL:HB	1:K:211:TRP:CH2	2.43	0.54
1:A:208:VAL:HB	1:A:211:TRP:CH2	2.43	0.54
1:B:38:VAL:HG21	1:B:324:LYS:HD2	1.89	0.54
1:B:139:SER:HB3	1:B:455:THR:CG2	2.37	0.54
1:B:208:VAL:HB	1:B:211:TRP:CH2	2.43	0.54
1:B:444:LEU:C	1:B:446:THR:H	2.13	0.54
1:D:386:THR:O	1:D:387:GLN:C	2.50	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:F:353:PRO:O	1:F:357:ALA:HB2	2.08	0.54
1:H:158:TRP:HH2	1:H:302:PRO:HG3	1.71	0.54
1:H:535:ILE:HD11	1:H:554:LEU:HG	1.89	0.54
1:I:40:GLN:O	1:I:41:TRP:CB	2.56	0.54
1:I:77:ASP:HB2	1:I:523:SER:CB	2.36	0.54
1:I:127:ARG:O	1:I:128:LEU:HD23	2.08	0.54
1:K:411:ALA:HA	1:K:414:GLU:HG3	1.88	0.54
1:K:560:LEU:O	1:K:561:ASP:O	2.25	0.54
1:L:248:LYS:HD3	1:L:251:ILE:HB	1.89	0.54
1:L:565:VAL:HG23	1:L:569:ARG:HH21	1.73	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:B:458:ARG:NH2	1:B:500:ALA:HB1	2.23	0.54
1:C:165:MET:HE1	1:C:435:VAL:CB	2.37	0.54
1:D:40:GLN:O	1:D:41:TRP:CB	2.56	0.54
1:D:353:PRO:O	1:D:357:ALA:HB2	2.08	0.54
1:D:383:ASP:C	1:D:385:PRO:HD3	2.32	0.54
1:E:643:ASN:O	1:E:647:ALA:N	2.36	0.54
1:F:700:GLN:O	1:F:701:ARG:C	2.49	0.54
1:G:139:SER:HB3	1:G:455:THR:CG2	2.37	0.54
1:H:248:LYS:HD3	1:H:251:ILE:HB	1.89	0.54
1:H:444:LEU:C	1:H:446:THR:H	2.13	0.54
1:I:565:VAL:HG23	1:I:569:ARG:HH21	1.73	0.54
1:L:353:PRO:O	1:L:357:ALA:HB2	2.08	0.54
1:C:565:VAL:HG23	1:C:569:ARG:HH21	1.73	0.53
1:G:17:ALA:HA	1:G:20:THR:OG1	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:434:THR:HG21	1:H:72:ARG:CG	2.37	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:J:111:VAL:O	1:J:115:VAL:HG13	2.08	0.53
1:J:458:ARG:NH2	1:J:500:ALA:HB1	2.23	0.53
1:K:248:LYS:HD3	1:K:251:ILE:HB	1.89	0.53
1:K:310:VAL:C	1:K:312:ASP:N	2.66	0.53
1:K:565:VAL:O	1:K:569:ARG:HB3	2.09	0.53
1:L:63:VAL:O	1:L:66:LYS:HB3	2.09	0.53
1:L:208:VAL:HB	1:L:211:TRP:CH2	2.43	0.53
1:A:41:TRP:CZ3	1:A:42:ASP:O	2.62	0.53
1:A:535:ILE:HD11	1:A:554:LEU:HG	1.89	0.53
1:B:127:ARG:O	1:B:128:LEU:HD23	2.08	0.53
1:D:17:ALA:HA	1:D:20:THR:OG1	2.09	0.53
1:D:26:ARG:HA	1:D:26:ARG:HE	1.74	0.53
1:D:45:LEU:CD2	1:D:328:ARG:HH21	2.17	0.53
1:D:111:VAL:O	1:D:115:VAL:HG13	2.08	0.53
1:G:127:ARG:O	1:G:128:LEU:HD23	2.08	0.53
1:G:158:TRP:CD1	1:G:158:TRP:H	2.22	0.53
1:G:248:LYS:HD3	1:G:251:ILE:HB	1.89	0.53
1:G:322:LEU:HD22	1:G:322:LEU:N	2.24	0.53
1:G:565:VAL:O	1:G:569:ARG:HB3	2.09	0.53
1:H:458:ARG:NH2	1:H:500:ALA:HB1	2.23	0.53
1:J:113:ILE:O	1:J:117:GLU:HG3	2.07	0.53
1:J:118:GLN:CA	1:J:123:VAL:O	2.55	0.53
1:J:127:ARG:O	1:J:128:LEU:HD23	2.08	0.53
1:K:165:MET:HE1	1:K:435:VAL:CB	2.37	0.53
1:L:165:MET:HE1	1:L:435:VAL:CB	2.37	0.53
1:A:565:VAL:HG23	1:A:569:ARG:HH21	1.73	0.53
1:B:78:VAL:HG11	1:B:444:LEU:HG	1.91	0.53
1:C:38:VAL:HG21	1:C:324:LYS:HD2	1.89	0.53
1:C:41:TRP:CZ3	1:C:42:ASP:O	2.62	0.53
1:C:127:ARG:O	1:C:128:LEU:HD23	2.08	0.53
1:C:208:VAL:HB	1:C:211:TRP:CH2	2.43	0.53
1:C:353:PRO:O	1:C:357:ALA:HB2	2.08	0.53
1:D:547:PRO:HG3	1:E:549:TYR:OH	2.08	0.53
1:F:27:ARG:NH1	1:G:211:TRP:CB	2.71	0.53
1:F:565:VAL:O	1:F:569:ARG:HB3	2.08	0.53
1:H:353:PRO:O	1:H:357:ALA:HB2	2.08	0.53
1:H:546:THR:HG23	1:H:547:PRO:CD	2.29	0.53
1:I:41:TRP:CZ3	1:I:42:ASP:O	2.62	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:49:THR:O	1:J:49:THR:CG2	2.54	0.53
1:J:266:ILE:HG23	1:J:267:ALA:N	2.24	0.53
1:J:322:LEU:HD22	1:J:322:LEU:N	2.24	0.53
1:K:17:ALA:HA	1:K:20:THR:OG1	2.09	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:K:337:ASN:ND2	1:K:401:ASN:HD22	2.04	0.53
1:B:535:ILE:HD11	1:B:554:LEU:HG	1.89	0.53
1:C:113:ILE:O	1:C:117:GLU:HG3	2.07	0.53
1:D:41:TRP:CZ3	1:D:42:ASP:O	2.62	0.53
1:E:353:PRO:O	1:E:357:ALA:HB2	2.08	0.53
1:E:565:VAL:O	1:E:569:ARG:HB3	2.08	0.53
1:F:310:VAL:C	1:F:312:ASP:N	2.66	0.53
1:F:462:GLU:O	1:F:497:VAL:HA	2.08	0.53
1:G:78:VAL:HG11	1:G:444:LEU:HG	1.91	0.53
1:H:139:SER:HB3	1:H:455:THR:CG2	2.37	0.53
1:H:310:VAL:C	1:H:312:ASP:N	2.66	0.53
1:H:685:ALA:O	1:H:688:GLU:CB	2.57	0.53
1:I:63:VAL:O	1:I:66:LYS:HB3	2.09	0.53
1:J:28:GLU:HB2	1:J:313:LYS:HZ1	1.73	0.53
1:K:78:VAL:HG11	1:K:444:LEU:HG	1.91	0.53
1:K:322:LEU:HD22	1:K:322:LEU:N	2.24	0.53
1:L:322:LEU:HD22	1:L:322:LEU:N	2.24	0.53
1:L:584:PRO:CG	1:L:590:GLN:HG2	2.39	0.53
1:A:322:LEU:HD22	1:A:322:LEU:N	2.24	0.53
1:B:427:GLY:C	1:B:429:GLN:N	2.60	0.53
1:B:565:VAL:O	1:B:569:ARG:HB3	2.08	0.53
1:C:26:ARG:HA	1:C:26:ARG:HE	1.74	0.53
1:C:139:SER:HB3	1:C:455:THR:CG2	2.37	0.53
1:C:390:ALA:HB3	1:D:387:GLN:OE1	2.09	0.53
1:D:63:VAL:O	1:D:66:LYS:HB3	2.09	0.53
1:D:565:VAL:HG23	1:D:569:ARG:HH21	1.73	0.53
1:E:17:ALA:HA	1:E:20:THR:OG1	2.09	0.53
1:E:63:VAL:O	1:E:66:LYS:HB3	2.08	0.53
1:E:560:LEU:O	1:E:561:ASP:O	2.25	0.53
1:E:602:GLY:O	1:E:603:GLN:C	2.48	0.53
1:F:63:VAL:O	1:F:66:LYS:HB3	2.09	0.53
1:F:127:ARG:O	1:F:128:LEU:HD23	2.08	0.53
1:F:179:MET:SD	1:F:184:TRP:HA	2.49	0.53
1:G:38:VAL:HG21	1:G:324:LYS:HD2	1.89	0.53
1:G:111:VAL:O	1:G:115:VAL:HG13	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:353:PRO:O	1:G:357:ALA:HB2	2.08	0.53
1:G:462:GLU:O	1:G:497:VAL:HA	2.08	0.53
1:H:565:VAL:O	1:H:569:ARG:HB3	2.08	0.53
1:I:11:ILE:HD12	1:I:285:ALA:CA	2.31	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:A:49:THR:O	1:A:49:THR:CG2	2.54	0.53
1:A:78:VAL:CG1	1:A:79:LEU:H	2.22	0.53
1:A:179:MET:SD	1:A:184:TRP:HA	2.49	0.53
1:A:348:LYS:CB	1:B:371:TYR:HA	2.38	0.53
1:B:26:ARG:HA	1:B:26:ARG:HE	1.74	0.53
1:C:27:ARG:HD2	1:D:212:LEU:H	1.74	0.53
1:C:40:GLN:O	1:C:41:TRP:CB	2.56	0.53
1:C:111:VAL:O	1:C:115:VAL:HG13	2.08	0.53
1:D:685:ALA:O	1:D:688:GLU:CB	2.57	0.53
1:E:386:THR:O	1:E:387:GLN:C	2.50	0.53
1:E:685:ALA:O	1:E:688:GLU:CB	2.57	0.53
1:F:411:ALA:CB	1:G:57:PHE:HD1	2.22	0.53
1:G:63:VAL:O	1:G:66:LYS:HB3	2.09	0.53
1:G:363:TYR:OH	1:G:373:LEU:O	2.26	0.53
1:H:17:ALA:HA	1:H:20:THR:OG1	2.09	0.53
1:H:127:ARG:O	1:H:128:LEU:HD23	2.08	0.53
1:H:322:LEU:HD22	1:H:322:LEU:N	2.24	0.53
1:H:434:THR:HG21	1:I:72:ARG:CG	2.39	0.53
1:I:337:ASN:ND2	1:I:401:ASN:HD22	2.04	0.53
1:K:41:TRP:CZ3	1:K:42:ASP:O	2.62	0.53
1:K:348:LYS:HB2	1:L:372:TYR:CD2	2.43	0.53
1:K:685:ALA:O	1:K:688:GLU:CB	2.57	0.53
1:L:17:ALA:HA	1:L:20:THR:OG1	2.09	0.53
1:L:458:ARG:NH2	1:L:500:ALA:HB1	2.23	0.53
1:A:17:ALA:HA	1:A:20:THR:OG1	2.09	0.53
1:A:28:GLU:HB2	1:A:313:LYS:HZ2	1.73	0.53
1:A:111:VAL:O	1:A:115:VAL:HG13	2.08	0.53
1:A:337:ASN:ND2	1:A:401:ASN:HD22	2.04	0.53
1:B:322:LEU:HD22	1:B:322:LEU:N	2.24	0.53
1:C:63:VAL:O	1:C:66:LYS:HB3	2.08	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:D:643:ASN:O	1:D:647:ALA:N	2.36	0.53
1:F:158:TRP:HH2	1:F:302:PRO:HG3	1.71	0.53
1:I:27:ARG:CZ	1:J:211:TRP:HB3	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:111:VAL:O	1:I:115:VAL:HG13	2.09	0.53
1:I:179:MET:SD	1:I:184:TRP:HA	2.49	0.53
1:I:322:LEU:HD22	1:I: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:HA	1:J:26:ARG:HE	1.74	0.53
1:J:179:MET:SD	1:J:184:TRP:HA	2.49	0.53
1:J:685:ALA:O	1:J:688:GLU:CB	2.57	0.53
1:K:89:ASP:HA	1:L:561:ASP:CB	2.38	0.53
1:K:462:GLU:O	1:K:497:VAL:HA	2.08	0.53
1:A:78:VAL:HG11	1:A:444:LEU:HG	1.91	0.53
1:A:685:ALA:O	1:A:688:GLU:CB	2.57	0.53
1:B:113:ILE:O	1:B:117:GLU:HG3	2.07	0.53
1:B:179:MET:SD	1:B:184:TRP:HA	2.49	0.53
1:B:209:PHE:N	1:B:210:PRO:CD	2.72	0.53
1:B:584:PRO:CG	1:B:590:GLN:HG2	2.39	0.53
1:C:687:ALA:O	1:C:691:LEU:N	2.40	0.53
1:D:179:MET:SD	1:D:184:TRP:HA	2.49	0.53
1:E:179:MET:SD	1:E:184:TRP:HA	2.49	0.53
1:F:40:GLN:O	1:F:41:TRP:CB	2.56	0.53
1:F:427:GLY:C	1:F:429:GLN:N	2.60	0.53
1:G:565:VAL:HG23	1:G:569:ARG:HH21	1.73	0.53
1:I:26:ARG:HA	1:I:26:ARG:HE	1.74	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:J:41:TRP:CG	1:J:42:ASP:N	2.77	0.53
1:J:209:PHE:N	1:J:210:PRO:CD	2.72	0.53
1:K:35:PHE:C	1:K:37:ARG:N	2.58	0.53
1:K:113:ILE:O	1:K:117:GLU:HG3	2.07	0.53
1:K:353:PRO:O	1:K:357:ALA:HB2	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:L:78:VAL:CG1	1:L:79:LEU:H	2.22	0.53
1:L:565:VAL:O	1:L:569:ARG:HB3	2.08	0.53
1:B:208:VAL:HG12	1:B:210:PRO:HD3	1.91	0.53
1:B:266:ILE:HG23	1:B:267:ALA:N	2.24	0.53
1:B:353:PRO:O	1:B:357:ALA:HB2	2.08	0.53
1:C:179:MET:SD	1:C:184:TRP:HA	2.49	0.53
1:C:322:LEU:N	1:C:322:LEU:HD22	2.24	0.53
1:D:78:VAL:CG1	1:D:79:LEU:H	2.22	0.53
1:D:208:VAL:HG12	1:D:210:PRO:HD3	1.91	0.53
1:D:209:PHE:N	1:D:210:PRO:CD	2.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:89:ASP:CA	1:F:561:ASP:HB2	2.37	0.53
1:E:208:VAL:HG12	1:E:210:PRO:HD3	1.91	0.53
1:E:352:TRP:CD1	1:F:374:LEU:O	2.60	0.53
1:E:400:ALA:HB3	1:F:395:PRO:HB2	1.90	0.53
1:F:17:ALA:HA	1:F:20:THR:OG1	2.09	0.53
1:F:78:VAL:CG1	1:F:79:LEU:H	2.22	0.53
1:I:41:TRP:CG	1:I:42:ASP:N	2.77	0.53
1:J:353:PRO:O	1:J:357:ALA:HB2	2.08	0.53
1:K:565:VAL:HG23	1:K:569:ARG:HH21	1.73	0.53
1:A:363:TYR:OH	1:A:373:LEU:O	2.26	0.53
1:B:41:TRP:CZ3	1:B:42:ASP:O	2.62	0.53
1:B:63:VAL:O	1:B:66:LYS:HB3	2.08	0.53
1:C:382:GLY:O	1:C:383:ASP:C	2.52	0.53
1:C:685:ALA:O	1:C:688:GLU:CB	2.57	0.53
1:D:78:VAL:HG11	1:D:444:LEU:HG	1.91	0.53
1:E:111:VAL:O	1:E:115:VAL:HG13	2.08	0.53
1:E:382:GLY:O	1:E:383:ASP:C	2.52	0.53
1:E:458:ARG:NH2	1:E:500:ALA:HB1	2.23	0.53
1:F:27:ARG:HG2	1:G:212:LEU:CD1	2.37	0.53
1:F:208:VAL:HG12	1:F:210:PRO:HD3	1.91	0.53
1:G:41:TRP:CG	1:G:42:ASP:N	2.77	0.53
1:G:458:ARG:NH2	1:G:500:ALA:CB	2.72	0.53
1:G:685:ALA:O	1:G:688:GLU:CB	2.57	0.53
1:H:78:VAL:HG11	1:H:444:LEU:HG	1.91	0.53
1:H:643:ASN:O	1:H:647:ALA:HB2	2.09	0.53
1:I:17:ALA:HA	1:I:20:THR:OG1	2.08	0.53
1:I:458:ARG:NH2	1:I:500:ALA:HB1	2.23	0.53
1:J:40:GLN:O	1:J:41:TRP:CB	2.56	0.53
1:J:546:THR:HG23	1:J:547:PRO:CD	2.29	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:K:41:TRP:CG	1:K:42:ASP:N	2.77	0.53
1:K:584:PRO:CG	1:K:590:GLN:HG2	2.39	0.53
1:L:208:VAL:HG12	1:L:210:PRO:HD3	1.91	0.53
1:A:63:VAL:O	1:A:66:LYS:HB3	2.09	0.52
1:A:127:ARG:O	1:A:128:LEU:HD23	2.08	0.52
1:F:41:TRP:CZ3	1:F:42:ASP:O	2.62	0.52
1:F:404:MET:SD	1:G:337:ASN:HB3	2.50	0.52
1:F:685:ALA:O	1:F:688:GLU:CB	2.57	0.52
1:G:41:TRP:CZ3	1:G:42:ASP:O	2.62	0.52
1:G:179:MET:SD	1:G:184:TRP:HA	2.49	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:208:VAL:HG12	1:G:210:PRO:HD3	1.91	0.52
1:I:458:ARG:NH2	1:I:500:ALA:CB	2.72	0.52
1:J:208:VAL:HG12	1:J:210:PRO:HD3	1.91	0.52
1:K:63:VAL:O	1:K:66:LYS:HB3	2.09	0.52
1:K:643:ASN:O	1:K:647:ALA:HB2	2.09	0.52
1:L:40:GLN:O	1:L:41:TRP:CB	2.56	0.52
1:L:49:THR:O	1:L:49:THR:CG2	2.54	0.52
1:L:111:VAL:O	1:L:115:VAL:HG13	2.08	0.52
1:L:127:ARG:O	1:L:128:LEU:HD23	2.08	0.52
1:A:438:LEU:HD11	1:B:108:LYS:NZ	2.24	0.52
1:A:565:VAL:O	1:A:569:ARG:HB3	2.08	0.52
1:D:322:LEU:HD22	1:D:322:LEU:N	2.24	0.52
1:D:584:PRO:CG	1:D:590:GLN:HG2	2.39	0.52
1:E:27:ARG:CZ	1:F:211:TRP:CB	2.88	0.52
1:E:127:ARG:O	1:E:128:LEU:HD23	2.08	0.52
1:E:322:LEU:HD22	1:E:322:LEU:N	2.24	0.52
1:E:458:ARG:NH2	1:E:500:ALA:CB	2.72	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:J:17:ALA:HA	1:J:20:THR:OG1	2.09	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:L:458:ARG:NH2	1:L:500:ALA:CB	2.72	0.52
1:L:685:ALA:O	1:L:688:GLU:CB	2.57	0.52
1:B:458:ARG:NH2	1:B:500:ALA:CB	2.72	0.52
1:C:78:VAL:CG1	1:C:79:LEU:H	2.22	0.52
1:C:643:ASN:O	1:C:647:ALA:HB2	2.09	0.52
1:D:350:PHE:HE1	1:E:363:TYR:HE1	1.56	0.52
1:D:458:ARG:NH2	1:D:500:ALA:CB	2.72	0.52
1:D:643:ASN:O	1:D:647:ALA:HB2	2.09	0.52
1:E:41:TRP:CZ3	1:E:42:ASP:O	2.62	0.52
1:E:643:ASN:O	1:E:647:ALA:HB2	2.09	0.52
1:H:78:VAL:CG1	1:H:79:LEU:H	2.22	0.52
1:H:266:ILE:HG23	1:H:267:ALA:N	2.24	0.52
1:J:43:ASP:OD1	1:J:327:GLN:OE1	2.28	0.52
1:J:63:VAL:O	1:J:66:LYS:HB3	2.09	0.52
1:K:208:VAL:HG12	1:K:210:PRO:HD3	1.91	0.52
1:A:382:GLY:O	1:A:383:ASP:C	2.52	0.52
1:A:643:ASN:O	1:A:647:ALA:HB2	2.09	0.52
1:B:17:ALA:HA	1:B:20:THR:OG1	2.09	0.52
1:B:401:ASN:OD1	1:C:341:VAL:HG13	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:17:ALA:HA	1:C:20:THR:OG1	2.09	0.52
1:C:266:ILE:HG23	1:C:267:ALA:N	2.24	0.52
1:D:27:ARG:HG2	1:E:212:LEU:HD13	1.92	0.52
1:E:350:PHE:HA	1:F:372:TYR:O	2.08	0.52
1:F:43:ASP:OD1	1:F:327:GLN:OE1	2.28	0.52
1:F:266:ILE:HG23	1:F:267:ALA:N	2.24	0.52
1:F:322:LEU:N	1:F:322:LEU:HD22	2.24	0.52
1:G:643:ASN:O	1:G:647:ALA:HB2	2.09	0.52
1:H:165:MET:HE1	1:H:435:VAL:CB	2.37	0.52
1:J:337:ASN:ND2	1:J:401:ASN:HD22	2.04	0.52
1:J:577:ILE:HG12	1:J:582:LYS:CG	2.36	0.52
1:K:179:MET:SD	1:K:184:TRP:HA	2.49	0.52
1:L:41:TRP:CZ3	1:L:42:ASP:O	2.62	0.52
1:L:201:PHE:HA	1:L:283:CYS:SG	2.50	0.52
1:L:266:ILE:HG23	1:L:267:ALA:N	2.24	0.52
1:A:208:VAL:HG12	1:A:210:PRO:HD3	1.91	0.52
1:B:685:ALA:O	1:B:688:GLU:CB	2.57	0.52
1:C:565:VAL:O	1:C:569:ARG:HB3	2.08	0.52
1:E:41:TRP:CG	1:E:42:ASP:N	2.77	0.52
1:G:26:ARG:HA	1:G:26:ARG:HE	1.74	0.52
1:G:201:PHE:HA	1:G:283:CYS:SG	2.50	0.52
1:I:309:PHE:HB2	1:J:150:HIS:CG	2.45	0.52
1:J:201:PHE:HA	1:J:283:CYS:SG	2.50	0.52
1:K:43:ASP:OD1	1:K:327:GLN:OE1	2.28	0.52
1:K:111:VAL:O	1:K:115:VAL:HG13	2.08	0.52
1:K:158:TRP:HH2	1:K:302:PRO:HG3	1.71	0.52
1:A:201:PHE:HA	1:A:283:CYS:SG	2.50	0.52
1:A:266:ILE:HG23	1:A:267:ALA:N	2.24	0.52
1:A:353:PRO:O	1:A:357:ALA:HB2	2.08	0.52
1:A:458:ARG:NH2	1:A:500:ALA:CB	2.72	0.52
1:C:43:ASP:OD1	1:C:327:GLN:OE1	2.28	0.52
1:D:201:PHE:HA	1:D:283:CYS:SG	2.50	0.52
1:D:390:ALA:HB3	1:E:387:GLN:HB2	1.87	0.52
1:E:78:VAL:HG11	1:E:444:LEU:HG	1.91	0.52
1:E:201:PHE:HA	1:E:283:CYS:SG	2.50	0.52
1:F:26:ARG:HA	1:F:26:ARG:HE	1.74	0.52
1:F:111:VAL:O	1:F:115:VAL:HG13	2.09	0.52
1:H:41:TRP:CG	1:H:42:ASP:N	2.77	0.52
1:H:201:PHE:HA	1:H:283:CYS:SG	2.50	0.52
1:I:165:MET:HE1	1:I:435:VAL:CB	2.37	0.52
1:I:577:ILE:HG12	1:I:582:LYS:CG	2.36	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:685:ALA:O	1:I:688:GLU:CB	2.57	0.52
1:J:11:ILE:HD12	1:J:285:ALA:CA	2.31	0.52
1:L:26:ARG:HA	1:L:26:ARG:HE	1.74	0.52
1:B:41:TRP:CG	1:B:42:ASP:N	2.77	0.52
1:B:43:ASP:OD1	1:B:327:GLN:OE1	2.28	0.52
1:C:400:ALA:HB3	1:D:395:PRO:HB2	1.90	0.52
1:D:43:ASP:OD1	1:D:327:GLN:OE1	2.28	0.52
1:E:78:VAL:CG1	1:E:79:LEU:H	2.22	0.52
1:E:158:TRP:HH2	1:E:302:PRO:HG3	1.71	0.52
1:E:165:MET:HE1	1:E:435:VAL:CB	2.37	0.52
1:F:201:PHE:HA	1:F:283:CYS:SG	2.50	0.52
1:G:266:ILE:HG23	1:G:267:ALA:N	2.23	0.52
1:H:26:ARG:HA	1:H:26:ARG:HE	1.74	0.52
1:H:41:TRP:CZ3	1:H:42:ASP:O	2.62	0.52
1:H:584:PRO:CG	1:H:590:GLN:HG2	2.39	0.52
1:J:41:TRP:CZ3	1:J:42:ASP:O	2.62	0.52
1:J:427:GLY:C	1:J:429:GLN:N	2.60	0.52
1:J:643:ASN:O	1:J:647:ALA:HB2	2.09	0.52
1:K:32:ASP:HA	1:K:35:PHE:CD1	2.45	0.52
1:A:26:ARG:HA	1:A:26:ARG:HE	1.74	0.52
1:C:41:TRP:CG	1:C:42:ASP:N	2.77	0.52
1:D:266:ILE:HG23	1:D:267:ALA:N	2.24	0.52
1:D:382:GLY:O	1:D:383:ASP:C	2.52	0.52
1:D:565:VAL:O	1:D:569:ARG:HB3	2.08	0.52
1:E:266:ILE:HG23	1:E:267:ALA:N	2.23	0.52
1:F:352:TRP:CG	1:G:376:ARG:HB2	2.44	0.52
1:F:584:PRO:CG	1:F:590:GLN:HG2	2.39	0.52
1:F:643:ASN:O	1:F:647:ALA:HB2	2.09	0.52
1:G:165:MET:HE1	1:G:435:VAL:CB	2.37	0.52
1:H:63:VAL:O	1:H:66:LYS:HB3	2.09	0.52
1:H:111:VAL:O	1:H:115:VAL:HG13	2.08	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:L:269:ARG:HH11	1:L:270:GLN:H	1.58	0.52
1:A:27:ARG:NH1	1:B:211:TRP:CB	2.72	0.52
1:B:32:ASP:HA	1:B:35:PHE:CD1	2.45	0.52
1:C:363:TYR:OH	1:C:373:LEU:O	2.26	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:F:269:ARG:HH11	1:F:270:GLN:H	1.58	0.52
1:H:179:MET:SD	1:H:184:TRP:HA	2.49	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:78:VAL:CG1	1:I:79:LEU:H	2.22	0.52
1:I:382:GLY:O	1:I:383:ASP:C	2.52	0.52
1:J:400:ALA:HB3	1:K:395:PRO:HB2	1.92	0.52
1:K:458:ARG:NH2	1:K:500:ALA:CB	2.73	0.52
1:L:382:GLY:O	1:L:383:ASP:C	2.52	0.52
1:L:643:ASN:O	1:L:647:ALA:HB2	2.09	0.52
1:A:155:HIS:NE2	1:L:312:ASP:OD2	2.43	0.52
1:A:158:TRP:HH2	1:A:302:PRO:HG3	1.71	0.52
1:D:32:ASP:HA	1:D:35:PHE:CD1	2.45	0.52
1:F:633:GLN:O	1:F:637:ALA:N	2.35	0.52
1:H:549:TYR:O	1:H:552:LEU:HB3	2.10	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
1:K:363:TYR:OH	1:K:373:LEU:O	2.26	0.52
1:L:41:TRP:CG	1:L:42:ASP:N	2.77	0.52
1:B:352:TRP:HD1	1:C:374:LEU:O	1.92	0.51
1:B:382:GLY:O	1:B:383:ASP:C	2.52	0.51
1:B:643:ASN:O	1:B:647:ALA:HB2	2.09	0.51
1:E:32:ASP:HA	1:E:35:PHE:CD1	2.45	0.51
1:G:32:ASP:HA	1:G:35:PHE:CD1	2.45	0.51
1:G:584:PRO:CG	1:G:590:GLN:HG2	2.39	0.51
1:H:363:TYR:OH	1:H:373:LEU:O	2.26	0.51
1:H:382:GLY:O	1:H:383:ASP:C	2.52	0.51
1:I:687:ALA:O	1:I:691:LEU:N	2.40	0.51
1:J:269:ARG:HH11	1:J:270:GLN:H	1.58	0.51
1:J:310:VAL:C	1:J:312:ASP:N	2.66	0.51
1:K:201:PHE:HA	1:K:283:CYS:SG	2.50	0.51
1:A:14:ARG:NE	1:A:14:ARG:CA	2.71	0.51
1:A:41:TRP:CE3	1:A:42:ASP:N	2.79	0.51
1:A:227:GLU:HA	1:A:274:ARG:CA	2.40	0.51
1:C:27:ARG:CG	1:D:212:LEU:HD13	2.34	0.51
1:C:78:VAL:HG11	1:C:444:LEU:HG	1.91	0.51
1:C:458:ARG:NH2	1:C:500:ALA:CB	2.72	0.51
1:D:41:TRP:CE3	1:D:42:ASP:N	2.79	0.51
1:D:363:TYR:OH	1:D:373:LEU:O	2.26	0.51
1:E:26:ARG:HA	1:E:26:ARG:HE	1.74	0.51
1:F:14:ARG:NE	1:F:14:ARG:CA	2.71	0.51
1:F:32:ASP:HA	1:F:35:PHE:CD1	2.45	0.51
1:G:41:TRP:CE3	1:G:42:ASP:N	2.79	0.51
1:I:28:GLU:HB2	1:I:313:LYS:HZ2	1.74	0.51
1:I:643:ASN:O	1:I:647:ALA:HB2	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:32:ASP:HA	1:J:35:PHE:CD1	2.45	0.51
1:J:458:ARG:NH2	1:J:500:ALA:CB	2.72	0.51
1:K:382:GLY:O	1:K:383:ASP:C	2.52	0.51
1:L:179:MET:SD	1:L:184:TRP:HA	2.49	0.51
1:A:269:ARG:HH11	1:A:270:GLN:H	1.58	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:D:127:ARG:O	1:D:128:LEU:HD23	2.08	0.51
1:G:43:ASP:OD1	1:G:327:GLN:OE1	2.28	0.51
1:G:352:TRP:HD1	1:H:374:LEU:O	1.93	0.51
1:G:577:ILE:HG12	1:G:582:LYS:CG	2.36	0.51
1:I:43:ASP:OD1	1:I:327:GLN:OE1	2.28	0.51
1:J:78:VAL:HG11	1:J:444:LEU:HG	1.91	0.51
1:J:352:TRP:HD1	1:K:374:LEU:O	1.94	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:B:309:PHE:HB2	1:C:150:HIS:ND1	2.25	0.51
1:D:438:LEU:HD11	1:E:108:LYS:CD	2.37	0.51
1:E:549:TYR:O	1:E:552:LEU:HB3	2.11	0.51
1:F:41:TRP:CE3	1:F:42:ASP:N	2.78	0.51
1:F:549:TYR:O	1:F:552:LEU:HB3	2.10	0.51
1:H:32:ASP:HA	1:H:35:PHE:CD1	2.45	0.51
1:J:227:GLU:HA	1:J:274:ARG:CA	2.40	0.51
1:J:382:GLY:O	1:J:383:ASP:C	2.52	0.51
1:L:32:ASP:HA	1:L:35:PHE:CD1	2.45	0.51
1:L:43:ASP:OD1	1:L:327:GLN:OE1	2.28	0.51
1:L:71:MET:HE2	1:L:119:ILE:HD11	1.93	0.51
1:B:549:TYR:O	1:B:552:LEU:HB3	2.11	0.51
1:C:158:TRP:HE3	1:C:173:CYS:SG	2.34	0.51
1:E:92:ASP:HB3	1:F:561:ASP:OD2	2.10	0.51
1:F:382:GLY:O	1:F:383:ASP:C	2.52	0.51
1:G:269:ARG:HH11	1:G:270:GLN:H	1.58	0.51
1:H:43:ASP:OD1	1:H:327:GLN:OE1	2.28	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: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:J:78:VAL:CG1	1:J:79:LEU:H	2.22	0.51
1:K:143:VAL:HG12	1:K:144:ILE:N	2.26	0.51
1:K:362:MET:HE2	1:K:369:TYR:CB	2.41	0.51
1:L:549:TYR:O	1:L:552:LEU:HB3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:165:MET:HE1	1:A:435:VAL:CB	2.37	0.51
1:B:269:ARG:HH11	1:B:270:GLN:H	1.58	0.51
1:B:687:ALA:O	1:B:691:LEU:N	2.39	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:C:71:MET:HE2	1:C:119:ILE:HD11	1.93	0.51
1:D:269:ARG:HH11	1:D:270:GLN:H	1.58	0.51
1:D:273:ARG:HH22	1:D:453:LEU:HD21	1.76	0.51
1:F:78:VAL:HG11	1:F:444:LEU:HG	1.91	0.51
1:H:14:ARG:NE	1:H:14:ARG:CA	2.71	0.51
1:H:362:MET:HE2	1:H:369:TYR:CB	2.41	0.51
1:H:633:GLN:O	1:H:637:ALA:N	2.35	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:B:309:PHE:HB2	1:C:150:HIS:CG	2.45	0.51
1:B:362:MET:HE2	1:B:369:TYR:CB	2.41	0.51
1:C:362:MET:HE2	1:C:369:TYR:CB	2.41	0.51
1:D:352:TRP:NE1	1:E:385:PRO:HG2	2.25	0.51
1:D:549:TYR:O	1:D:552:LEU:HB3	2.11	0.51
1:E:43:ASP:OD1	1:E:327:GLN:OE1	2.28	0.51
1:F:80:TYR:CE1	1:F:448:VAL:HG22	2.46	0.51
1:F:160:SER:O	1:F:161:ASN:ND2	2.44	0.51
1:G:40:GLN:O	1:G:41:TRP:CB	2.56	0.51
1:G:78:VAL:CG1	1:G:79:LEU:H	2.22	0.51
1:G:273:ARG:HH22	1:G:453:LEU:HD21	1.76	0.51
1:J:80:TYR:CE1	1:J:448:VAL:HG22	2.46	0.51
1:J:363:TYR:OH	1:J:373:LEU:O	2.26	0.51
1:K:41:TRP:CE3	1:K:42:ASP:N	2.79	0.51
1:L:126:TRP:HB2	1:L:147:GLU:O	2.11	0.51
1:L:143:VAL:HG12	1:L:144:ILE:N	2.26	0.51
1:L:158:TRP:O	1:L:160:SER:N	2.44	0.51
1:A:43:ASP:OD1	1:A:327:GLN:OE1	2.28	0.51
1:A:362:MET:HE2	1:A:369:TYR:CB	2.41	0.51
1:B:80:TYR:CE1	1:B:448:VAL:HG22	2.46	0.51
1:B:201:PHE:HA	1:B:283:CYS:SG	2.50	0.51
1:B:248:LYS:NZ	1:B:513:ARG:HH12	2.09	0.51
1:D:80:TYR:CE1	1:D:448:VAL:HG22	2.46	0.51
1:D:89:ASP:HA	1:E:561:ASP:CB	2.38	0.51
1:E:41:TRP:CE3	1:E:42:ASP:N	2.79	0.51
1:E:158:TRP:O	1:E:160:SER:N	2.44	0.51
1:E:198:ILE:O	1:E:198:ILE:HG22	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:80:TYR:CE1	1:G:448:VAL:HG22	2.46	0.51
1:G:158:TRP:O	1:G:160:SER:N	2.44	0.51
1:H:158:TRP:O	1:H:160:SER:N	2.44	0.51
1:I:673:ALA:O	1:I:674:SER:C	2.54	0.51
1:J:71:MET:HE2	1:J:119:ILE:HD11	1.93	0.51
1:K:160:SER:O	1:K:161:ASN:ND2	2.44	0.51
1:K:273:ARG:HH22	1:K:453:LEU:HD21	1.76	0.51
1:L:577:ILE:HG12	1:L:582:LYS:CG	2.36	0.51
1:A:248:LYS:NZ	1:A:513:ARG:HH12	2.09	0.51
1:C:84:ASP:OD1	1:D:526:SER:HB2	2.11	0.51
1:C:158:TRP:HH2	1:C:302:PRO:HG3	1.71	0.51
1:C:158:TRP:O	1:C:160:SER:N	2.44	0.51
1:D:41:TRP:CG	1:D:42:ASP:N	2.77	0.51
1:D:126:TRP:HB2	1:D:147:GLU:O	2.11	0.51
1:E:273:ARG:HH22	1:E:453:LEU:HD21	1.76	0.51
1:E:434:THR:HA	1:E:437:GLN:HG2	1.93	0.51
1:G:158:TRP:HE3	1:G:173:CYS:SG	2.34	0.51
1:G:160:SER:O	1:G:161:ASN:ND2	2.44	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
1:G:382:GLY:O	1:G:383:ASP:C	2.52	0.51
1:I:126:TRP:HB2	1:I:147:GLU:O	2.11	0.51
1:J:41:TRP:CE3	1:J:42:ASP:N	2.79	0.51
1:K:269:ARG:HH11	1:K:270:GLN:H	1.58	0.51
1:A:71:MET:HE2	1:A:119:ILE:HD11	1.93	0.51
1:A:352:TRP:CD2	1:B:376:ARG:HB2	2.46	0.51
1:B:273:ARG:HH22	1:B:453:LEU:HD21	1.75	0.51
1:B:633:GLN:O	1:B:637:ALA:N	2.35	0.51
1:C:80:TYR:CE1	1:C:448:VAL:HG22	2.46	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:E:322:LEU:HD11	1:F:58:ASP:OD2	2.06	0.51
1:F:438:LEU:HD11	1:G:108:LYS:NZ	2.26	0.51
1:H:41:TRP:CE3	1:H:42:ASP:N	2.78	0.51
1:I:80:TYR:CE1	1:I:448:VAL:HG22	2.46	0.51
1:J:126:TRP:HB2	1:J:147:GLU:O	2.11	0.51
1:J:549:TYR:O	1:J:552:LEU:HB3	2.10	0.51
1:L:241:GLY:O	1:L:242:GLU:C	2.54	0.51
1:A:158:TRP:HE3	1:A:173:CYS:SG	2.34	0.50
1:A:584:PRO:CG	1:A:590:GLN:HG2	2.39	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:14:ARG:NE	1:B:14:ARG:CA	2.71	0.50
1:B:41:TRP:CE3	1:B:42:ASP:N	2.78	0.50
1:B:78:VAL:CG1	1:B:79:LEU:H	2.22	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: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:E:687:ALA:O	1:E:691:LEU:N	2.40	0.50
1:F:41:TRP:CG	1:F:42:ASP:N	2.77	0.50
1:F:126:TRP:HB2	1:F:147:GLU:O	2.11	0.50
1:G:549:TYR:O	1:G:552:LEU:HB3	2.11	0.50
1:H:126:TRP:HB2	1:H:147:GLU:O	2.11	0.50
1:H:248:LYS:NZ	1:H:513:ARG:HH12	2.09	0.50
1:H:269:ARG:HH11	1:H:270:GLN:H	1.58	0.50
1:H:436:ASN:O	1:H:439:ASN:N	2.45	0.50
1:I:138:THR:HG1	1:I:143:VAL:HA	1.76	0.50
1:J:241:GLY:O	1:J:242:GLU:C	2.55	0.50
1:K:71:MET:HE2	1:K:119:ILE:HD11	1.93	0.50
1:K:78:VAL:CG1	1:K:79:LEU:H	2.22	0.50
1:K:80:TYR:CE1	1:K:448:VAL:HG22	2.46	0.50
1:K:158:TRP:O	1:K:160:SER:N	2.44	0.50
1:L:198:ILE:HG22	1:L:198:ILE:O	2.11	0.50
1:L:434:THR:HA	1:L:437:GLN:HG2	1.93	0.50
1:L:673:ALA:O	1:L:674:SER:C	2.54	0.50
1:A:41:TRP:CG	1:A:42:ASP:N	2.77	0.50
1:A:434:THR:HA	1:A:437:GLN:HG2	1.93	0.50
1:C:143:VAL:HG12	1:C:144:ILE:N	2.26	0.50
1:C:673:ALA:O	1:C:674:SER:C	2.54	0.50
1:F:158:TRP:O	1:F:160:SER:N	2.44	0.50
1:F:158:TRP:HE3	1:F:173:CYS:SG	2.34	0.50
1:H:158:TRP:HE3	1:H:173:CYS:SG	2.34	0.50
1:I:11:ILE:O	1:I:15:PHE:HB2	2.12	0.50
1:I:66:LYS:HZ3	1:I:420:VAL:CG1	2.24	0.50
1:I:363:TYR:OH	1:I:373:LEU:O	2.26	0.50
1:J:158:TRP:HE3	1:J:173:CYS:SG	2.34	0.50
1:J:165:MET:HE1	1:J:435:VAL:CB	2.37	0.50
1:J:586:THR:N	1:J:587:PRO:CD	2.75	0.50
1:K:158:TRP:HE3	1:K:173:CYS:SG	2.34	0.50
1:K:434:THR:HA	1:K:437:GLN:HG2	1.93	0.50
1:L:41:TRP:CE3	1:L:42:ASP:N	2.79	0.50
1:L:45:LEU:CD2	1:L:328:ARG:NH2	2.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:80:TYR:CE1	1:L:448:VAL:HG22	2.46	0.50
1:A:11:ILE:O	1:A:15:PHE:HB2	2.12	0.50
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:C:11:ILE:O	1:C: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:NE	1:D:14:ARG:CA	2.71	0.50
1:D:362:MET:HE2	1:D:369:TYR:CB	2.41	0.50
1:D:434:THR:HA	1:D:437:GLN:HG2	1.93	0.50
1:E:269:ARG:HH11	1:E:270:GLN:H	1.58	0.50
1:E:362:MET:HE2	1:E:369:TYR:CB	2.41	0.50
1:F:71:MET:HE2	1:F:119:ILE:HD11	1.93	0.50
1:G:71:MET:HE2	1:G:119:ILE:HD11	1.93	0.50
1:G:586:THR:N	1:G:587:PRO:CD	2.75	0.50
1:H:80:TYR:CE1	1:H:448:VAL:HG22	2.46	0.50
1:H:673:ALA:O	1:H:674:SER:C	2.54	0.50
1:I:273:ARG:HH22	1:I:453:LEU:HD21	1.76	0.50
1:I:362:MET:HE2	1:I:369:TYR:CB	2.41	0.50
1:K:45:LEU:CD2	1:K:328:ARG:NH2	2.75	0.50
1:K:158:TRP:CD1	1:K:158:TRP:H	2.22	0.50
1:L:11:ILE:O	1:L:15:PHE:HB2	2.12	0.50
1:L:80:TYR:CE2	1:L:94:LEU:HD22	2.47	0.50
1:A:549:TYR:O	1:A:552:LEU:HB3	2.10	0.50
1:A:673:ALA:O	1:A:674:SER:C	2.54	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:B:126:TRP:HB2	1:B:147:GLU:O	2.11	0.50
1:C:248:LYS:NZ	1:C:513:ARG:HH12	2.09	0.50
1:D:27:ARG:CZ	1:E:211:TRP:CB	2.89	0.50
1:D:158:TRP:HE3	1:D:173:CYS:SG	2.34	0.50
1:E:71:MET:HE2	1:E:119:ILE:HD11	1.93	0.50
1:E:126:TRP:HB2	1:E:147:GLU:O	2.11	0.50
1:F:248:LYS:NZ	1:F:513:ARG:HH12	2.09	0.50
1:G:11:ILE:HD12	1:G:285:ALA:CA	2.31	0.50
1:G:138:THR:HG23	1:G:143:VAL:CG2	2.37	0.50
1:G:404:MET:CE	1:H:337:ASN:HB2	2.42	0.50
1:H:11:ILE:O	1:H:15:PHE:HB2	2.12	0.50
1:H:138:THR:HG23	1:H:143:VAL:CG2	2.37	0.50
1:I:248:LYS:NZ	1:I:513:ARG:HH12	2.09	0.50
1:J:248:LYS:NZ	1:J:513:ARG:HH12	2.09	0.50
1:J:560:LEU:O	1:J:565:VAL:HG21	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:241:GLY:O	1:K:242:GLU:C	2.55	0.50
1:L:158:TRP:HE3	1:L:173:CYS:SG	2.34	0.50
1:L:209:PHE:N	1:L:210:PRO:CD	2.72	0.50
1:L:425:VAL:O	1:L:426:ASN:C	2.55	0.50
1:A:241:GLY:O	1:A:242:GLU:C	2.55	0.50
1:A:350:PHE:CE1	1:B:372:TYR:CB	2.94	0.50
1:B:198:ILE:O	1:B:198:ILE:HG22	2.11	0.50
1:C:227:GLU:HA	1:C:274:ARG:CA	2.39	0.50
1:C:560:LEU:O	1:C:565:VAL:HG21	2.12	0.50
1:C:643:ASN:O	1:C:647:ALA:N	2.36	0.50
1:D:425:VAL:O	1:D:426:ASN:C	2.55	0.50
1:E:80:TYR:CE2	1:E:94:LEU:HD22	2.47	0.50
1:E:171:ARG:HH21	1:F:182:ASN:ND2	2.10	0.50
1:F:241:GLY:O	1:F:242:GLU:C	2.55	0.50
1:F:425:VAL:O	1:F:426:ASN:C	2.55	0.50
1:G:198:ILE:O	1:G:198:ILE:HG22	2.11	0.50
1:G:209:PHE:N	1:G:210:PRO:CD	2.72	0.50
1:G:231:THR:CG2	1:G:249:ARG:HE	2.25	0.50
1:H:78:VAL:HG22	1:H:444:LEU:HD21	1.94	0.50
1:H:231:THR:CG2	1:H:249:ARG:HE	2.25	0.50
1:H:434:THR:HA	1:H:437:GLN:HG2	1.93	0.50
1:H:586:THR:N	1:H:587:PRO:CD	2.75	0.50
1:H:593:LEU:O	1:H:595:GLU:N	2.45	0.50
1:J:143:VAL:HG12	1:J:144:ILE:N	2.26	0.50
1:J:160:SER:O	1:J:161:ASN:ND2	2.44	0.50
1:K:11:ILE:O	1:K:15:PHE:HB2	2.12	0.50
1:K:549:TYR:O	1:K:552:LEU:HB3	2.11	0.50
1:L:38:VAL:O	1:L:43:ASP:OD2	2.30	0.50
1:A:78:VAL:HG22	1:A:444:LEU:HD21	1.94	0.50
1:A:160:SER:O	1:A:161:ASN:ND2	2.44	0.50
1:C:549:TYR:O	1:C:552:LEU:HB3	2.11	0.50
1:D:80:TYR:CE2	1:D:94:LEU:HD22	2.47	0.50
1:D:593:LEU:O	1:D:595:GLU:N	2.45	0.50
1:E:11:ILE:O	1:E:15:PHE:HB2	2.12	0.50
1:E:38:VAL:O	1:E:43:ASP:OD2	2.30	0.50
1:E:45:LEU:CD2	1:E:328:ARG:NH2	2.75	0.50
1:E:158:TRP:HE3	1:E:173:CYS:SG	2.34	0.50
1:E:390:ALA:CB	1:F:387:GLN:HB2	2.41	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:H:560:LEU:O	1:H:565:VAL:HG21	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:32:ASP:HA	1:I:35:PHE:CD1	2.45	0.50
1:I:80:TYR:CE2	1:I:94:LEU:HD22	2.47	0.50
1:I:158:TRP:O	1:I:160:SER:N	2.44	0.50
1:I:560:LEU:O	1:I:565:VAL:HG21	2.12	0.50
1:I:593:LEU:O	1:I:595:GLU:N	2.45	0.50
1:J:434:THR:HA	1:J:437:GLN:HG2	1.93	0.50
1:J:673:ALA:O	1:J:674:SER:C	2.54	0.50
1:K:248:LYS:NZ	1:K:513:ARG:HH12	2.09	0.50
1:K:348:LYS:HB2	1:L:372:TYR:CE2	2.46	0.50
1:K:577:ILE:HG12	1:K:582:LYS:CG	2.36	0.50
1:A:273:ARG:HH22	1:A:453:LEU:HD21	1.76	0.50
1:A:586:THR:N	1:A:587:PRO:CD	2.75	0.50
1:B:158:TRP:HE3	1:B:173:CYS:SG	2.34	0.50
1:B:434:THR:HA	1:B:437:GLN:HG2	1.94	0.50
1:C:11:ILE:HD12	1:C:285:ALA:CA	2.31	0.50
1:C:66:LYS:HZ3	1:C:420:VAL:CG1	2.25	0.50
1:C:273:ARG:HH22	1:C:453:LEU:HD21	1.76	0.50
1:C:633:GLN:O	1:C:637:ALA:N	2.35	0.50
1:D:58:ASP:O	1:D:58:ASP:OD1	2.30	0.50
1:D:165:MET:HE1	1:D:435:VAL:CB	2.37	0.50
1:D:198:ILE:HG22	1:D:198:ILE:O	2.11	0.50
1:D:231:THR:CG2	1:D:249:ARG:HE	2.25	0.50
1:D:241:GLY:O	1:D:242:GLU:C	2.54	0.50
1:E:248:LYS:NZ	1:E:513:ARG:HH12	2.09	0.50
1:G:11:ILE:O	1:G:15:PHE:HB2	2.12	0.50
1:G:66:LYS:HZ3	1:G:420:VAL:CG1	2.25	0.50
1:G:80:TYR:CE2	1:G:94:LEU:HD22	2.47	0.50
1:H:45:LEU:CD2	1:H:328:ARG:NH2	2.75	0.50
1:H:241:GLY:O	1:H:242:GLU:C	2.55	0.50
1:I:78:VAL:HG22	1:I:444:LEU:HD21	1.94	0.50
1:I:158:TRP:HE3	1:I:173:CYS:SG	2.34	0.50
1:I:643:ASN:O	1:I:647:ALA:N	2.36	0.50
1:J:633:GLN:O	1:J:637:ALA:N	2.35	0.50
1:A:45:LEU:CD2	1:A:328:ARG:NH2	2.75	0.50
1:B:227:GLU:HA	1:B:274:ARG:CA	2.39	0.50
1:C:434:THR:HA	1:C:437:GLN:HG2	1.93	0.50
1:C:554:LEU:HD22	1:D:567:MET:HE2	1.94	0.50
1:D:586:THR:N	1:D:587:PRO:CD	2.75	0.50
1:F:45:LEU:CD2	1:F:328:ARG:NH2	2.75	0.50
1:F:80:TYR:CE2	1:F:94:LEU:HD22	2.47	0.50
1:H:80:TYR:CE2	1:H:94:LEU:HD22	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:273:ARG:HH22	1:H:453:LEU:HD21	1.76	0.50
1:H:415:VAL:HA	1:I:62:PRO:HG3	1.94	0.50
1:I:38:VAL:O	1:I:43:ASP:OD2	2.30	0.50
1:I:45:LEU:CD2	1:I:328:ARG:NH2	2.75	0.50
1:J:158:TRP:O	1:J:160:SER:N	2.44	0.50
1:K:14:ARG:NE	1:K:14:ARG:CA	2.71	0.50
1:L:58:ASP:O	1:L:58:ASP:OD1	2.30	0.50
1:L:160:SER:O	1:L:161:ASN:ND2	2.44	0.50
1:L:436:ASN:O	1:L:439:ASN:N	2.45	0.50
1:A:80:TYR:CE1	1:A:448:VAL:HG22	2.46	0.50
1:A:434:THR:HA	1:A:437:GLN:CG	2.42	0.50
1:B:38:VAL:O	1:B:43:ASP:OD2	2.30	0.50
1:C:58:ASP:OD1	1:C:58:ASP:O	2.30	0.50
1:C:310:VAL:C	1:C:312:ASP:N	2.66	0.50
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:C:593:LEU:O	1:C:595:GLU:N	2.45	0.50
1:D:71:MET:HE2	1:D:119:ILE:HD11	1.93	0.50
1:F:362:MET:HE2	1:F:369:TYR:CB	2.41	0.50
1:F:673:ALA:O	1:F:674:SER:C	2.54	0.50
1:G:362:MET:HE2	1:G:369:TYR:CB	2.41	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:J:11:ILE:O	1:J:15:PHE:HB2	2.12	0.50
1:J:198:ILE:O	1:J:198:ILE:HG22	2.11	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:K:309:PHE:HB2	1:L:150:HIS:CG	2.47	0.50
1:K:350:PHE:HA	1:L:372:TYR:O	2.12	0.50
1:K:687:ALA:O	1:K:691:LEU:N	2.40	0.50
1:L:227:GLU:HA	1:L:274:ARG:CA	2.39	0.50
1:L:456:ALA:HB1	1:L:509:ASP:OD2	2.12	0.50
1:L:586:THR:N	1:L:587:PRO:CD	2.75	0.50
1:A:158:TRP:O	1:A:160:SER:N	2.44	0.49
1:B:45:LEU:CD2	1:B:328:ARG:NH2	2.75	0.49
1:B:241:GLY:O	1:B:242:GLU:C	2.55	0.49
1:B:363:TYR:OH	1:B:373:LEU:O	2.26	0.49
1:B:425:VAL:O	1:B:426:ASN:C	2.55	0.49
1:C:126:TRP:HB2	1:C:147:GLU:O	2.11	0.49
1:C:209:PHE:N	1:C:210:PRO:CD	2.72	0.49
1:D:45:LEU:CD2	1:D:328:ARG:NH2	2.75	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:227:GLU:HA	1:D:274:ARG:CA	2.39	0.49
1:D:456:ALA:HB1	1:D:509:ASP:OD2	2.12	0.49
1:E:411:ALA:CB	1:F:57:PHE:HD1	2.25	0.49
1:F:11:ILE:O	1:F:15:PHE:HB2	2.12	0.49
1:F:198:ILE:O	1:F:198:ILE:HG22	2.11	0.49
1:F:434:THR:HA	1:F:437:GLN:CG	2.42	0.49
1:G:126:TRP:HB2	1:G:147:GLU:O	2.11	0.49
1:G:673:ALA:O	1:G:674:SER:C	2.54	0.49
1:I:160:SER:O	1:I:161:ASN:ND2	2.44	0.49
1:I:209:PHE:N	1:I:210:PRO:CD	2.72	0.49
1:J:45:LEU:CD2	1:J:328:ARG:NH2	2.75	0.49
1:J:58:ASP:OD1	1:J:58:ASP:O	2.30	0.49
1:J:80:TYR:CE2	1:J:94:LEU:HD22	2.47	0.49
1:J:273:ARG:HH22	1:J:453:LEU:HD21	1.76	0.49
1:L:66:LYS:HZ3	1:L:420:VAL:CG1	2.25	0.49
1:B:586:THR:N	1:B:587:PRO:CD	2.75	0.49
1:C:49:THR:O	1:C:49:THR:CG2	2.54	0.49
1:C:425:VAL:O	1:C:426:ASN:C	2.55	0.49
1:E:80:TYR:CE1	1:E:448:VAL:HG22	2.46	0.49
1:E:586:THR:N	1:E:587:PRO:CD	2.75	0.49
1:F:138:THR:HG1	1:F:143:VAL:HA	1.78	0.49
1:F:209:PHE:N	1:F:210:PRO:CD	2.72	0.49
1:F:560:LEU:O	1:F:565:VAL:HG21	2.12	0.49
1:G:241:GLY:O	1:G:242:GLU:C	2.55	0.49
1:G:593:LEU:O	1:G:595:GLU:N	2.45	0.49
1:H:38:VAL:O	1:H:43:ASP:OD2	2.30	0.49
1:H:425:VAL:O	1:H:426:ASN:C	2.55	0.49
1:I:434:THR:HA	1:I:437:GLN:CG	2.42	0.49
1:J:38:VAL:O	1:J:43:ASP:OD2	2.30	0.49
1:J:425:VAL:O	1:J:426:ASN:C	2.55	0.49
1:K:586:THR:N	1:K:587:PRO:CD	2.75	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:L:362:MET:HE2	1:L:369:TYR:CB	2.41	0.49
1:B:456:ALA:HB1	1:B:509:ASP:OD2	2.12	0.49
1:B:541:LYS:HD3	1:B:542:THR:HG23	1.95	0.49
1:B:673:ALA:O	1:B:674:SER:C	2.54	0.49
1:C:45:LEU:CD2	1:C:328:ARG:NH2	2.75	0.49
1:C:80:TYR:CE2	1:C:94:LEU:HD22	2.47	0.49
1:D:78:VAL:HG22	1:D:444:LEU:HD21	1.94	0.49
1:D:541:LYS:HD3	1:D:542:THR:HG23	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:227:GLU:HA	1:E:274:ARG:CA	2.39	0.49
1:E:362:MET:HE2	1:E:369:TYR:HB3	1.95	0.49
1:E:456:ALA:HB1	1:E:509:ASP:OD2	2.12	0.49
1:F:58:ASP:OD1	1:F:58:ASP:O	2.30	0.49
1:G:456:ALA:HB1	1:G:509:ASP:OD2	2.12	0.49
1:G:541:LYS:HD3	1:G:542:THR:HG23	1.95	0.49
1:H:71:MET:HE2	1:H:119:ILE:HD11	1.93	0.49
1:I:231:THR:CG2	1:I:249:ARG:HE	2.25	0.49
1:I:425:VAL:O	1:I:426:ASN:C	2.55	0.49
1:J:231:THR:CG2	1:J:249:ARG:HE	2.25	0.49
1:K:198:ILE:O	1:K:198:ILE:HG22	2.11	0.49
1:K:231:THR:CG2	1:K:249:ARG:HE	2.25	0.49
1:K:436:ASN:O	1:K:439:ASN:N	2.45	0.49
1:L:434:THR:HA	1:L:437:GLN:CG	2.42	0.49
1:L:560:LEU:O	1:L:565:VAL:HG21	2.12	0.49
1:A:80:TYR:CE2	1:A:94:LEU:HD22	2.47	0.49
1:A:143:VAL:HG12	1:A:144:ILE:N	2.26	0.49
1:A:198:ILE:O	1:A:198:ILE:HG22	2.11	0.49
1:A:577:ILE:HG12	1:A:582:LYS:CG	2.36	0.49
1:B:58:ASP:OD1	1:B:58:ASP:O	2.30	0.49
1:C:198:ILE:O	1:C:198:ILE:HG22	2.11	0.49
1:C:269:ARG:HH11	1:C:270:GLN:H	1.58	0.49
1:E:78:VAL:HG22	1:E:444:LEU:HD21	1.94	0.49
1:E:436:ASN:O	1:E:439:ASN:N	2.45	0.49
1:F:78:VAL:HG22	1:F:444:LEU:HD21	1.94	0.49
1:F:273:ARG:HH22	1:F:453:LEU:HD21	1.76	0.49
1:F:404:MET:HE1	1:G:337:ASN:HB2	1.93	0.49
1:G:78:VAL:HG22	1:G:444:LEU:HD21	1.94	0.49
1:H:198:ILE:O	1:H:198:ILE:HG22	2.11	0.49
1:I:58:ASP:O	1:I:58:ASP:OD1	2.30	0.49
1:I:241:GLY:O	1:I:242:GLU:C	2.54	0.49
1:J:593:LEU:O	1:J:595:GLU:N	2.45	0.49
1:K:126:TRP:HB2	1:K:147:GLU:O	2.11	0.49
1:K:227:GLU:HA	1:K:274:ARG:CA	2.39	0.49
1:K:425:VAL:O	1:K:426:ASN:C	2.55	0.49
1:L:593:LEU:O	1:L:595:GLU:N	2.45	0.49
1:A:593:LEU:O	1:A:595:GLU:N	2.45	0.49
1:B:143:VAL:HG12	1:B:144:ILE:N	2.26	0.49
1:C:456:ALA:HB1	1:C:509:ASP:OD2	2.12	0.49
1:E:160:SER:O	1:E:161:ASN:ND2	2.44	0.49
1:F:143:VAL:HG12	1:F:144:ILE:N	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:227:GLU:HA	1:F:274:ARG:CA	2.39	0.49
1:F:434:THR:HA	1:F:437:GLN:HG2	1.93	0.49
1:F:593:LEU:O	1:F:595:GLU:N	2.45	0.49
1:H:209:PHE:N	1:H:210:PRO:CD	2.72	0.49
1:H:227:GLU:HA	1:H:274:ARG:CA	2.39	0.49
1:I:71:MET:HE2	1:I:119:ILE:HD11	1.93	0.49
1:I:143:VAL:HG12	1:I:144:ILE:N	2.26	0.49
1:I:350:PHE:HE1	1:J:363:TYR:HE1	1.60	0.49
1:I:586:THR:N	1:I:587:PRO:CD	2.75	0.49
1:J:362:MET:HE2	1:J:369:TYR:HB3	1.95	0.49
1:J:362:MET:HE2	1:J:369:TYR:CB	2.41	0.49
1:J:436:ASN:O	1:J:439:ASN:N	2.45	0.49
1:K:352:TRP:HZ2	1:L:385:PRO:HG2	1.78	0.49
1:K:378:ASP:OD2	1:L:376:ARG:NH2	2.45	0.49
1:K:560:LEU:O	1:K:565:VAL:HG21	2.12	0.49
1:K:593:LEU:O	1:K:595:GLU:N	2.45	0.49
1:A:27:ARG:NH1	1:B:211:TRP:HB3	2.26	0.49
1:A:58:ASP:O	1:A:58:ASP:OD1	2.30	0.49
1:A:456:ALA:HB1	1:A:509:ASP:OD2	2.12	0.49
1:B:231:THR:CG2	1:B:249:ARG:HE	2.25	0.49
1:B:434:THR:HA	1:B:437:GLN:CG	2.42	0.49
1:C:14:ARG:NE	1:C:14:ARG:CA	2.71	0.49
1:C:231:THR:CG2	1:C:249:ARG:HE	2.25	0.49
1:D:138:THR:HG23	1:D:143:VAL:CG2	2.37	0.49
1:D:360:GLU:CB	1:E:371:TYR:OH	2.61	0.49
1:E:241:GLY:O	1:E:242:GLU:C	2.54	0.49
1:E:401:ASN:OD1	1:F:341:VAL:HG13	2.12	0.49
1:E:560:LEU:O	1:E:565:VAL:HG21	2.12	0.49
1:E:593:LEU:O	1:E:595:GLU:N	2.45	0.49
1:E:673:ALA:O	1:E:674:SER:C	2.54	0.49
1:G:434:THR:HA	1:G:437:GLN:CG	2.42	0.49
1:J:456:ALA:HB1	1:J:509:ASP:OD2	2.12	0.49
1:K:138:THR:HG23	1:K:143:VAL:CG2	2.37	0.49
1:K:434:THR:HA	1:K:437:GLN:CG	2.42	0.49
1:L:231:THR:CG2	1:L:249:ARG:HE	2.25	0.49
1:L:363:TYR:OH	1:L:373:LEU:O	2.26	0.49
1:B:11:ILE:O	1:B:15:PHE:HB2	2.12	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:101:ASP:CB	1:E:138:THR:HG21	2.43	0.49
1:E:434:THR:HA	1:E:437:GLN:CG	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:456:ALA:HB1	1:F:509:ASP:OD2	2.12	0.49
1:G:45:LEU:CD2	1:G:328:ARG:NH2	2.75	0.49
1:G:58:ASP:OD1	1:G:58:ASP:O	2.30	0.49
1:G:434:THR:HA	1:G:437:GLN:HG2	1.93	0.49
1:H:541:LYS:HD3	1:H:542:THR:HG23	1.94	0.49
1:I:101:ASP:CB	1:I:138:THR:HG21	2.43	0.49
1:I:198:ILE:HG22	1:I:198:ILE:O	2.11	0.49
1:I:269:ARG:HH11	1:I:270:GLN:H	1.58	0.49
1:J:101:ASP:CB	1:J:138:THR:HG21	2.43	0.49
1:J:550:GLN:H	1:J:550:GLN:CD	2.21	0.49
1:K:38:VAL:O	1:K:43:ASP:OD2	2.30	0.49
1:L:164:LEU:HA	1:L:307:TRP:CH2	2.48	0.49
1:L:362:MET:HE2	1:L:369:TYR:HB3	1.95	0.49
1:A:164:LEU:HA	1:A:307:TRP:CH2	2.48	0.49
1:A:209:PHE:N	1:A:210:PRO:CD	2.72	0.49
1:A:260:ASP:OD1	1:A:264:ILE:HG13	2.13	0.49
1:A:560:LEU:O	1:A:565:VAL:HG21	2.12	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:C:78:VAL:HG22	1:C:444:LEU:HD21	1.94	0.49
1:C:362:MET:HE2	1:C:369:TYR:HB3	1.95	0.49
1:D:38:VAL:O	1:D:43:ASP:OD2	2.30	0.49
1:D:143:VAL:HG12	1:D:144:ILE:N	2.26	0.49
1:E:541:LYS:HD3	1:E:542:THR:HG23	1.95	0.49
1:E:551:LEU:O	1:E:554:LEU:HB3	2.13	0.49
1:F:323:THR:O	1:F:327:GLN:HB2	2.13	0.49
1:G:27:ARG:HD2	1:H:212:LEU:H	1.78	0.49
1:H:58:ASP:OD1	1:H:58:ASP:O	2.30	0.49
1:I:551:LEU:O	1:I:554:LEU:HB3	2.13	0.49
1:J:557:PHE:CE2	1:K:563:LYS:HD3	2.47	0.49
1:K:73:GLN:C	1:K:75:PRO:HD3	2.38	0.49
1:K:456:ALA:HB1	1:K:509:ASP:OD2	2.12	0.49
1:A:101:ASP:CB	1:A:138:THR:HG21	2.43	0.49
1:A:436:ASN:O	1:A:439:ASN:N	2.45	0.49
1:A:551:LEU:O	1:A:554:LEU:HB3	2.13	0.49
1:B:71:MET:HE2	1:B:119:ILE:HD11	1.93	0.49
1:B:73:GLN:C	1:B:75:PRO:HD3	2.38	0.49
1:B:101:ASP:CB	1:B:138:THR:HG21	2.43	0.49
1:C:260:ASP:OD1	1:C:264:ILE:HG13	2.13	0.49
1:F:586:THR:N	1:F:587:PRO:CD	2.75	0.49
1:G:98:TYR:O	1:G:102:MET:HB2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:687:ALA:O	1:G:691:LEU:N	2.40	0.49
1:H:309:PHE:HB2	1:I:150:HIS:ND1	2.28	0.49
1:H:362:MET:HE2	1:H:369:TYR:HB3	1.95	0.49
1:H:400:ALA:CB	1:I:395:PRO:HB2	2.43	0.49
1:H:456:ALA:HB1	1:H:509:ASP:OD2	2.12	0.49
1:H:702:MET:O	1:H:705:ALA:HB3	2.13	0.49
1:I:541:LYS:HD3	1:I:542:THR:HG23	1.95	0.49
1:I:550:GLN:CD	1:I:550:GLN:H	2.21	0.49
1:J:541:LYS:HD3	1:J:542:THR:HG23	1.95	0.49
1:A:231:THR:CG2	1:A:249:ARG:HE	2.25	0.49
1:A:350:PHE:CE1	1:B:372:TYR:HB3	2.48	0.49
1:B:436:ASN:O	1:B:439:ASN:N	2.45	0.49
1:B:560:LEU:O	1:B:565:VAL:HG21	2.12	0.49
1:C:323:THR:O	1:C:327:GLN:HB2	2.13	0.49
1:D:101:ASP:CB	1:D:138:THR:HG21	2.43	0.49
1:D:673:ALA:O	1:D:674:SER:C	2.54	0.49
1:E:231:THR:CG2	1:E:249:ARG:HE	2.25	0.49
1:G:14:ARG:NE	1:G:14:ARG:CA	2.71	0.49
1:G:73:GLN:C	1:G:75:PRO:HD3	2.38	0.49
1:G:560:LEU:O	1:G:565:VAL:HG21	2.12	0.49
1:H:73:GLN:C	1:H:75:PRO:HD3	2.38	0.49
1:H:260:ASP:OD1	1:H:264:ILE:HG13	2.13	0.49
1:I:73:GLN:C	1:I:75:PRO:HD3	2.38	0.49
1:I:246:TYR:CE2	1:I:512:GLY:N	2.81	0.49
1:K:58:ASP:OD1	1:K:58:ASP:O	2.30	0.49
1:K:551:LEU:O	1:K:554:LEU:HB3	2.13	0.49
1:L:78:VAL:HG22	1:L:444:LEU:HD21	1.94	0.49
1:L:158:TRP:HH2	1:L:302:PRO:HG3	1.71	0.49
1:L:246:TYR:CE2	1:L:512:GLY:N	2.81	0.49
1:L:702:MET:O	1:L:705:ALA:HB3	2.13	0.49
1:A:173:CYS:SG	1:A:298:ILE:HG21	2.53	0.48
1:C:101:ASP:CB	1:C:138:THR:HG21	2.43	0.48
1:D:350:PHE:CE1	1:E:363:TYR:HE1	2.31	0.48
1:E:58:ASP:OD1	1:E:58:ASP:O	2.30	0.48
1:E:164:LEU:HA	1:E:307:TRP:CH2	2.48	0.48
1:E:702:MET:O	1:E:705:ALA:HB3	2.13	0.48
1:F:101:ASP:CB	1:F:138:THR:HG21	2.43	0.48
1:F:363:TYR:OH	1:F:373:LEU:O	2.26	0.48
1:G:362:MET:HE2	1:G:369:TYR:HB3	1.95	0.48
1:H:143:VAL:HG12	1:H:144:ILE:N	2.26	0.48
1:H:323:THR:O	1:H:327:GLN:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:73:GLN:C	1:J:75:PRO:HD3	2.38	0.48
1:J:325:ASP:OD2	1:K:56:GLN:N	2.45	0.48
1:L:541:LYS:HD3	1:L:542:THR:HG23	1.95	0.48
1:L:687:ALA:O	1:L:691:LEU:N	2.39	0.48
1:A:15:PHE:CE2	1:A:19:TRP:NE1	2.81	0.48
1:A:38:VAL:O	1:A:43:ASP:OD2	2.30	0.48
1:A:73:GLN:C	1:A:75:PRO:HD3	2.38	0.48
1:A:425:VAL:O	1:A:426:ASN:C	2.55	0.48
1:A:541:LYS:HD3	1:A:542:THR:HG23	1.95	0.48
1:B:15:PHE:CE2	1:B:19:TRP:NE1	2.81	0.48
1:C:306:GLU:OE2	1:D:65:ARG:HG2	2.13	0.48
1:D:248:LYS:NZ	1:D:513:ARG:HH12	2.09	0.48
1:D:323:THR:O	1:D:327:GLN:HB2	2.13	0.48
1:E:260:ASP:OD1	1:E:264:ILE:HG13	2.13	0.48
1:F:38:VAL:O	1:F:43:ASP:OD2	2.30	0.48
1:F:173:CYS:SG	1:F:298:ILE:HG21	2.54	0.48
1:F:231:THR:CG2	1:F:249:ARG:HE	2.25	0.48
1:F:260:ASP:OD1	1:F:264:ILE:HG13	2.13	0.48
1:G:702:MET:O	1:G:705:ALA:HB3	2.13	0.48
1:H:101:ASP:CB	1:H:138:THR:HG21	2.43	0.48
1:H:550:GLN:H	1:H:550:GLN:CD	2.21	0.48
1:I:59:VAL:O	1:I:62:PRO:CD	2.51	0.48
1:I:323:THR:O	1:I:327:GLN:HB2	2.13	0.48
1:I:456:ALA:HB1	1:I:509:ASP:OD2	2.12	0.48
1:J:27:ARG:HD2	1:K:212:LEU:H	1.78	0.48
1:K:15:PHE:CE2	1:K:19:TRP:NE1	2.81	0.48
1:K:98:TYR:O	1:K:102:MET:HB2	2.13	0.48
1:K:260:ASP:OD1	1:K:264:ILE:HG13	2.13	0.48
1:L:550:GLN:CD	1:L:550:GLN:H	2.21	0.48
1:A:98:TYR:O	1:A:102:MET:HB2	2.13	0.48
1:B:126:TRP:CD1	1:B:146:ARG:HG3	2.49	0.48
1:B:173:CYS:SG	1:B:298:ILE:HG21	2.53	0.48
1:C:38:VAL:O	1:C:43:ASP:OD2	2.30	0.48
1:C:73:GLN:C	1:C:75:PRO:HD3	2.38	0.48
1:C:434:THR:HA	1:C:437:GLN:CG	2.42	0.48
1:D:164:LEU:HA	1:D:307:TRP:CH2	2.48	0.48
1:E:98:TYR:O	1:E:102:MET:HB2	2.13	0.48
1:E:323:THR:O	1:E:327:GLN:HB2	2.13	0.48
1:E:633:GLN:O	1:E:637:ALA:N	2.35	0.48
1:F:238:PRO:HB3	1:F:263:PHE:HB2	1.96	0.48
1:F:390:ALA:HB3	1:G:387:GLN:OE1	2.11	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:436:ASN:O	1:F:439:ASN:N	2.45	0.48
1:G:143:VAL:HG12	1:G:144:ILE:N	2.26	0.48
1:G:238:PRO:HB3	1:G:263:PHE:HB2	1.96	0.48
1:G:554:LEU:HD22	1:H:567:MET:HE2	1.95	0.48
1:H:126:TRP:CD1	1:H:146:ARG:HG3	2.49	0.48
1:H:164:LEU:HA	1:H:307:TRP:CH2	2.48	0.48
1:H:434:THR:HA	1:H:437:GLN:CG	2.42	0.48
1:H:551:LEU:O	1:H:554:LEU:HB3	2.13	0.48
1:I:436:ASN:O	1:I:439:ASN:N	2.45	0.48
1:J:173:CYS:SG	1:J:298:ILE:HG21	2.53	0.48
1:J:260:ASP:OD1	1:J:264:ILE:HG13	2.13	0.48
1:J:323:THR:O	1:J:327:GLN:HB2	2.13	0.48
1:K:126:TRP:CD1	1:K:146:ARG:HG3	2.49	0.48
1:K:350:PHE:CE1	1:L:363:TYR:HE1	2.27	0.48
1:K:550:GLN:H	1:K:550:GLN:CD	2.21	0.48
1:L:260:ASP:OD1	1:L:264:ILE:HG13	2.13	0.48
1:A:323:THR:O	1:A:327:GLN:HB2	2.13	0.48
1:C:15:PHE:CE2	1:C:19:TRP:NE1	2.81	0.48
1:D:434:THR:HA	1:D:437:GLN:CG	2.42	0.48
1:D:687:ALA:O	1:D:691:LEU:N	2.39	0.48
1:D:702:MET:O	1:D:705:ALA:HB3	2.13	0.48
1:F:400:ALA:HB2	1:G:395:PRO:HB2	1.94	0.48
1:G:38:VAL:O	1:G:43:ASP:OD2	2.30	0.48
1:G:164:LEU:HA	1:G:307:TRP:CH2	2.48	0.48
1:G:173:CYS:SG	1:G:298:ILE:HG21	2.53	0.48
1:G:238:PRO:HG3	1:G:263:PHE:CB	2.44	0.48
1:I:164:LEU:HB2	1:J:109:ILE:HG21	1.96	0.48
1:I:173:CYS:SG	1:I:298:ILE:HG21	2.53	0.48
1:I:262:GLY:O	1:I:263:PHE:HB3	2.14	0.48
1:J:14:ARG:NE	1:J:14:ARG:CA	2.71	0.48
1:J:98:TYR:O	1:J:102:MET:HB2	2.13	0.48
1:J:449:PHE:N	1:J:449:PHE:CD1	2.82	0.48
1:J:551:LEU:O	1:J:554:LEU:HB3	2.13	0.48
1:K:238:PRO:HG3	1:K:263:PHE:CB	2.44	0.48
1:K:246:TYR:CE2	1:K:512:GLY:N	2.81	0.48
1:K:554:LEU:HD22	1:L:567:MET:CE	2.42	0.48
1:L:98:TYR:O	1:L:102:MET:HB2	2.13	0.48
1:L:551:LEU:O	1:L:554:LEU:HB3	2.13	0.48
1:A:389:LEU:H	1:A:389:LEU:HD12	1.79	0.48
1:C:436:ASN:O	1:C:439:ASN:N	2.45	0.48
1:D:126:TRP:CD1	1:D:146:ARG:HG3	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:246:TYR:CE2	1:D:512:GLY:N	2.81	0.48
1:E:27:ARG:NH1	1:F:211:TRP:CB	2.77	0.48
1:E:425:VAL:O	1:E:426:ASN:C	2.55	0.48
1:E:449:PHE:N	1:E:449:PHE:CD1	2.82	0.48
1:G:15:PHE:CE2	1:G:19:TRP:NE1	2.81	0.48
1:G:389:LEU:H	1:G:389:LEU:HD12	1.79	0.48
1:G:425:VAL:O	1:G:426:ASN:C	2.55	0.48
1:G:550:GLN:CD	1:G:550:GLN:H	2.21	0.48
1:H:15:PHE:CE2	1:H:19:TRP:NE1	2.81	0.48
1:I:98:TYR:O	1:I:102:MET:HB2	2.13	0.48
1:K:238:PRO:HB3	1:K:263:PHE:HB2	1.96	0.48
1:K:312:ASP:OD2	1:L:178:SER:CB	2.61	0.48
1:K:362:MET:HE2	1:K:369:TYR:HB3	1.95	0.48
1:K:389:LEU:HD12	1:K:389:LEU:H	1.79	0.48
1:L:15:PHE:CE2	1:L:19:TRP:NE1	2.81	0.48
1:A:263:PHE:O	1:A:263:PHE:CG	2.65	0.48
1:A:702:MET:O	1:A:705:ALA:HB3	2.13	0.48
1:B:246:TYR:CE2	1:B:512:GLY:N	2.81	0.48
1:B:260:ASP:OD1	1:B:264:ILE:HG13	2.13	0.48
1:B:449:PHE:N	1:B:449:PHE:CD1	2.82	0.48
1:B:551:LEU:O	1:B:554:LEU:HB3	2.13	0.48
1:D:389:LEU:H	1:D:389:LEU:HD12	1.79	0.48
1:D:551:LEU:O	1:D:554:LEU:HB3	2.13	0.48
1:D:585:GLU:HB3	1:D:587:PRO:HD3	1.96	0.48
1:E:262:GLY:O	1:E:263:PHE:HB3	2.14	0.48
1:I:438:LEU:HD11	1:J:108:LYS:NZ	2.29	0.48
1:J:15:PHE:CE2	1:J:19:TRP:NE1	2.81	0.48
1:J:238:PRO:HG3	1:J:263:PHE:CB	2.44	0.48
1:J:263:PHE:O	1:J:263:PHE:CG	2.65	0.48
1:K:78:VAL:HG22	1:K:444:LEU:HD21	1.94	0.48
1:K:323:THR:O	1:K:327:GLN:HB2	2.13	0.48
1:L:173:CYS:SG	1:L:298:ILE:HG21	2.53	0.48
1:L:255:ILE:O	1:L:256:ASP:C	2.57	0.48
1:L:323:THR:O	1:L:327:GLN:HB2	2.13	0.48
1:A:211:TRP:HB3	1:L:27:ARG:CZ	2.44	0.48
1:B:238:PRO:HB3	1:B:263:PHE:HB2	1.96	0.48
1:B:362:MET:HE2	1:B:369:TYR:HB3	1.95	0.48
1:C:301:VAL:HA	1:C:302:PRO:HD3	1.67	0.48
1:C:449:PHE:CD1	1:C:449:PHE:N	2.82	0.48
1:C:634:ILE:O	1:C:638:LYS:N	2.42	0.48
1:D:98:TYR:O	1:D:102:MET:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:73:GLN:C	1:E:75:PRO:HD3	2.38	0.48
1:E:173:CYS:SG	1:E:298:ILE:HG21	2.53	0.48
1:E:209:PHE:N	1:E:210:PRO:CD	2.72	0.48
1:F:98:TYR:O	1:F:102:MET:HB2	2.13	0.48
1:F:550:GLN:CD	1:F:550:GLN:H	2.21	0.48
1:G:260:ASP:OD1	1:G:264:ILE:HG13	2.13	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:H:449:PHE:N	1:H:449:PHE:CD1	2.82	0.48
1:H:577:ILE:HG12	1:H:582:LYS:CG	2.36	0.48
1:I:15:PHE:CE2	1:I:19:TRP:NE1	2.82	0.48
1:I:449:PHE:N	1:I:449:PHE:CD1	2.82	0.48
1:I:585:GLU:HB3	1:I:587:PRO:HD3	1.96	0.48
1:I:702:MET:O	1:I:705:ALA:HB3	2.13	0.48
1:J:78:VAL:HG22	1:J:444:LEU:HD21	1.94	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:A:550:GLN:CD	1:A:550:GLN:H	2.21	0.48
1:B:550:GLN:H	1:B:550:GLN:CD	2.21	0.48
1:C:164:LEU:HA	1:C:307:TRP:CH2	2.48	0.48
1:C:241:GLY:O	1:C:242:GLU:C	2.55	0.48
1:C:541:LYS:HD3	1:C:542:THR:HG23	1.95	0.48
1:D:15:PHE:CE2	1:D:19:TRP:NE1	2.81	0.48
1:D:362:MET:HE2	1:D:369:TYR:HB3	1.95	0.48
1:D:550:GLN:CD	1:D:550:GLN:H	2.21	0.48
1:E:15:PHE:CE2	1:E:19:TRP:NE1	2.81	0.48
1:E:543:PRO:C	1:E:545:GLY:H	2.22	0.48
1:G:101:ASP:CB	1:G:138:THR:HG21	2.43	0.48
1:G:255:ILE:O	1:G:256:ASP:C	2.57	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:H:389:LEU:HD12	1:H:389:LEU:H	1.79	0.48
1:I:633:GLN:O	1:I:637:ALA:N	2.35	0.48
1:L:262:GLY:O	1:L:263:PHE:HB3	2.14	0.48
1:A:108:LYS:CD	1:L:438:LEU:HD11	2.43	0.48
1:A:362:MET:HE2	1:A:369:TYR:HB3	1.95	0.48
1:C:173:CYS:SG	1:C:298:ILE:HG21	2.53	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:255:ILE:O	1:D:256:ASP:C	2.57	0.48
1:D:260:ASP:OD1	1:D:264:ILE:HG13	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:399:GLN:OE1	1:E:396:GLU:O	2.31	0.48
1:D:436:ASN:O	1:D:439:ASN:N	2.45	0.48
1:E:126:TRP:CD1	1:E:146:ARG:HG3	2.49	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:G:584:PRO:HB3	1:G:589:GLU:HB2	1.96	0.48
1:H:173:CYS:SG	1:H:298:ILE:HG21	2.53	0.48
1:I:14:ARG:NE	1:I:14:ARG:CA	2.71	0.48
1:I:255:ILE:O	1:I:258:LEU:N	2.47	0.48
1:K:101:ASP:CB	1:K:138:THR:HG21	2.43	0.48
1:L:301:VAL:HA	1:L:302:PRO:HD3	1.67	0.48
1:A:346:LYS:CG	1:B:367:ASP:OD1	2.62	0.48
1:A:543:PRO:C	1:A:545:GLY:H	2.22	0.48
1:A:671:THR:O	1:A:672:VAL:C	2.57	0.48
1:B:429:GLN:H	1:B:429:GLN:CD	2.22	0.48
1:B:543:PRO:C	1:B:545:GLY:H	2.22	0.48
1:B:671:THR:O	1:B:672:VAL:C	2.57	0.48
1:D:577:ILE:HG12	1:D:582:LYS:CG	2.36	0.48
1:D:671:THR:O	1:D:672:VAL:C	2.57	0.48
1:E:238:PRO:HG3	1:E:263:PHE:CB	2.44	0.48
1:F:127:ARG:HG2	1:F:147:GLU:HB2	1.96	0.48
1:F:164:LEU:HA	1:F:307:TRP:CH2	2.48	0.48
1:F:362:MET:HE2	1:F:369:TYR:HB3	1.95	0.48
1:F:438:LEU:HD11	1:G:108:LYS:HD2	1.96	0.48
1:F:449:PHE:CD1	1:F:449:PHE:N	2.82	0.48
1:F:541:LYS:HD3	1:F:542:THR:HG23	1.95	0.48
1:F:543:PRO:C	1:F:545:GLY:H	2.22	0.48
1:G:411:ALA:CB	1:H:57:PHE:HD1	2.24	0.48
1:H:543:PRO:C	1:H:545:GLY:H	2.22	0.48
1:I:238:PRO:HG3	1:I:263:PHE:CB	2.44	0.48
1:I:238:PRO:HD3	1:I:263:PHE:CD2	2.49	0.48
1:I:260:ASP:OD1	1:I:264:ILE:HG13	2.13	0.48
1:I:362:MET:HE2	1:I:369:TYR:HB3	1.95	0.48
1:I:543:PRO:C	1:I:545:GLY:H	2.22	0.48
1:J:561:ASP:CG	1:J:562:GLY:N	2.72	0.48
1:J:584:PRO:HB3	1:J:589:GLU:HB2	1.96	0.48
1:J:671:THR:O	1:J:672:VAL:C	2.57	0.48
1:J:702:MET:O	1:J:705:ALA:HB3	2.13	0.48
1:K:88:PRO:C	1:L:561:ASP:HB2	2.39	0.48
1:K:164:LEU:HA	1:K:307:TRP:CH2	2.48	0.48
1:K:173:CYS:SG	1:K:298:ILE:HG21	2.53	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:584:PRO:HB3	1:K:589:GLU:HB2	1.96	0.48
1:K:585:GLU:HB3	1:K:587:PRO:HD3	1.96	0.48
1:L:101:ASP:CB	1:L:138:THR:HG21	2.43	0.48
1:L:122:GLY:O	1:L:304:PHE:HA	2.14	0.48
1:L:126:TRP:CD1	1:L:146:ARG:HG3	2.49	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: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:255:ILE:O	1:B:256:ASP:C	2.57	0.47
1:B:262:GLY:O	1:B:263:PHE:HB3	2.14	0.47
1:C:98:TYR:O	1:C:102:MET:HB2	2.13	0.47
1:C:262:GLY:O	1:C:263:PHE:HB3	2.14	0.47
1:D:122:GLY:O	1:D:304:PHE:HA	2.14	0.47
1:F:429:GLN:H	1:F:429:GLN:CD	2.22	0.47
1:F:551:LEU:O	1:F:554:LEU:HB3	2.13	0.47
1:F:585:GLU:HB3	1:F:587:PRO:HD3	1.96	0.47
1:G:262:GLY:O	1:G:263:PHE:HB3	2.14	0.47
1:G:429:GLN:H	1:G:429:GLN:CD	2.22	0.47
1:J:585:GLU:HB3	1:J:587:PRO:HD3	1.96	0.47
1:K:122:GLY:O	1:K:304:PHE:HA	2.14	0.47
1:K:238:PRO:HD3	1:K:263:PHE:CD2	2.49	0.47
1:K:350:PHE:HE1	1:L:363:TYR:CE1	2.28	0.47
1:K:449:PHE:CD1	1:K:449:PHE:N	2.82	0.47
1:K:561:ASP:CG	1:K:562:GLY:N	2.72	0.47
1:K:671:THR:O	1:K:672:VAL:C	2.57	0.47
1:L:343:ARG:H	1:L:343:ARG:HG2	1.52	0.47
1:B:561:ASP:CG	1:B:562:GLY:N	2.72	0.47
1:C:126:TRP:CD1	1:C:146:ARG:HG3	2.49	0.47
1:C:255:ILE:O	1:C:256:ASP:C	2.57	0.47
1:C:434:THR:O	1:C:437:GLN:HG2	2.15	0.47
1:D:73:GLN:C	1:D:75:PRO:HD3	2.38	0.47
1:E:238:PRO:HB3	1:E:263:PHE:HB2	1.96	0.47
1:E:255:ILE:O	1:E:256:ASP:C	2.57	0.47
1:E:671:THR:O	1:E:672:VAL:C	2.57	0.47
1:F:73:GLN:C	1:F:75:PRO:HD3	2.38	0.47
1:F:561:ASP:CG	1:F:562:GLY:N	2.72	0.47
1:G:122:GLY:O	1:G:304:PHE:HA	2.14	0.47
1:G:323:THR:O	1:G:327:GLN:HB2	2.13	0.47
1:G:438:LEU:HD11	1:H:108:LYS:NZ	2.29	0.47
1:H:255:ILE:O	1:H:256:ASP:C	2.57	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:404:MET:CE	1:I:337:ASN:HB2	2.43	0.47
1:H:671:THR:O	1:H:672:VAL:C	2.57	0.47
1:I:164:LEU:HA	1:I:307:TRP:CH2	2.48	0.47
1:I:227:GLU:HA	1:I:274:ARG:CA	2.40	0.47
1:B:584:PRO:HB3	1:B:589:GLU:HB2	1.96	0.47
1:C:246:TYR:CE2	1:C:512:GLY:N	2.81	0.47
1:C:350:PHE:CE1	1:D:372:TYR:CB	2.97	0.47
1:C:429:GLN:H	1:C:429:GLN:CD	2.22	0.47
1:D:173:CYS:SG	1:D:298:ILE:HG21	2.53	0.47
1:E:238:PRO:HD3	1:E:263:PHE:CD2	2.49	0.47
1:I:127:ARG:HG2	1:I:147:GLU:HB2	1.96	0.47
1:I:434:THR:O	1:I:437:GLN:HG2	2.15	0.47
1:I:602:GLY:O	1:I:606:PRO:N	2.48	0.47
1:J:238:PRO:HD3	1:J:263:PHE:CD2	2.49	0.47
1:K:255:ILE:O	1:K:256:ASP:C	2.57	0.47
1:K:405:LEU:O	1:K:409:THR:HG23	2.14	0.47
1:K:673:ALA:O	1:K:674:SER:C	2.54	0.47
1:L:73:GLN:C	1:L:75:PRO:HD3	2.38	0.47
1:L:449:PHE:N	1:L:449:PHE:CD1	2.82	0.47
1:A:126:TRP:CD1	1:A:146:ARG:HG3	2.49	0.47
1:A:127:ARG:HG2	1:A:147:GLU:HB2	1.96	0.47
1:A:429:GLN:H	1:A:429:GLN:CD	2.22	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:C:166:ASP:O	1:C:167:LYS:C	2.58	0.47
1:C:551:LEU:O	1:C:554:LEU:HB3	2.13	0.47
1:D:263:PHE:O	1:D:263:PHE:CG	2.65	0.47
1:D:312:ASP:OD2	1:E:155:HIS:NE2	2.46	0.47
1:D:405:LEU:O	1:D:409:THR:HG23	2.15	0.47
1:D:429:GLN:H	1:D:429:GLN:CD	2.22	0.47
1:D:434:THR:O	1:D:437:GLN:HG2	2.15	0.47
1:D:543:PRO:C	1:D:545:GLY:H	2.22	0.47
1:E:95:MET:O	1:E:96:GLY:C	2.58	0.47
1:E:389:LEU:H	1:E:389:LEU:HD12	1.79	0.47
1:F:246:TYR:CE2	1:F:512:GLY:N	2.81	0.47
1:F:389:LEU:H	1:F:389:LEU:HD12	1.79	0.47
1:G:126:TRP:CD1	1:G:146:ARG:HG3	2.49	0.47
1:H:255:ILE:O	1:H:258:LEU:N	2.46	0.47
1:I:122:GLY:O	1:I:304:PHE:HA	2.14	0.47
1:I:126:TRP:CD1	1:I:146:ARG:HG3	2.49	0.47
1:I:166:ASP:O	1:I:167:LYS:C	2.58	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:411:ALA:CB	1:J:57:PHE:HD1	2.26	0.47
1:J:126:TRP:CD1	1:J:146:ARG:HG3	2.49	0.47
1:J:317:GLU:HB3	1:J:321:ARG:CZ	2.45	0.47
1:J:434:THR:O	1:J:437:GLN:HG2	2.15	0.47
1:K:543:PRO:C	1:K:545:GLY:H	2.22	0.47
1:L:255:ILE:O	1:L:258:LEU:N	2.47	0.47
1:A:132:TYR:O	1:L:272:LYS:HD3	2.15	0.47
1:A:164:LEU:HB2	1:B:109:ILE:HG21	1.97	0.47
1:A:317:GLU:HB3	1:A:321:ARG:CZ	2.45	0.47
1:B:28:GLU:HB2	1:B:313:LYS:HZ2	1.80	0.47
1:B:323:THR:O	1:B:327:GLN:HB2	2.13	0.47
1:B:434:THR:O	1:B:437:GLN:HG2	2.15	0.47
1:C:389:LEU:HD12	1:C:389:LEU:H	1.79	0.47
1:C:602:GLY:O	1:C:606:PRO:N	2.48	0.47
1:D:561:ASP:CG	1:D:562:GLY:N	2.72	0.47
1:E:127:ARG:HG2	1:E:147:GLU:HB2	1.96	0.47
1:F:243:PRO:O	1:F:244:VAL:HB	2.15	0.47
1:F:602:GLY:O	1:F:606:PRO:N	2.48	0.47
1:G:246:TYR:CE2	1:G:512:GLY:N	2.81	0.47
1:G:411:ALA:HB1	1:H:57:PHE:CD1	2.45	0.47
1:H:98:TYR:O	1:H:102:MET:HB2	2.13	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:J:164:LEU:HB2	1:K:109:ILE:HG21	1.95	0.47
1:K:429:GLN:H	1:K:429:GLN:CD	2.22	0.47
1:L:389:LEU:H	1:L:389:LEU:HD12	1.79	0.47
1:L:405:LEU:O	1:L:409:THR:HG23	2.14	0.47
1:A:238:PRO:HB3	1:A:263:PHE:HB2	1.96	0.47
1:A:255:ILE:O	1:A:256:ASP:C	2.57	0.47
1:A:561:ASP:CG	1:A:562:GLY:N	2.72	0.47
1:B:263:PHE:O	1:B:263:PHE:CG	2.65	0.47
1:C:584:PRO:HB3	1:C:589:GLU:HB2	1.96	0.47
1:C:585:GLU:HB3	1:C:587:PRO:HD3	1.96	0.47
1:D:166:ASP:O	1:D:167:LYS:C	2.58	0.47
1:D:384:LEU:HD22	1:D:384:LEU:N	2.30	0.47
1:D:449:PHE:N	1:D:449:PHE:CD1	2.82	0.47
1:E:429:GLN:H	1:E:429:GLN:CD	2.22	0.47
1:F:15:PHE:CE2	1:F:19:TRP:NE1	2.82	0.47
1:G:671:THR:O	1:G:672:VAL:C	2.57	0.47
1:J:255:ILE:O	1:J:256:ASP:C	2.57	0.47
1:J:543:PRO:C	1:J:545:GLY:H	2.22	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:L:243:PRO:O	1:L:244:VAL:HB	2.15	0.47
1:L:317:GLU:HB3	1:L:321:ARG:CZ	2.45	0.47
1:L:552:LEU:HD13	1:L:556:TYR:CE2	2.50	0.47
1:L:602:GLY:O	1:L:606:PRO:N	2.48	0.47
1:A:26:ARG:HG2	1:B:212:LEU:CD2	2.22	0.47
1:A:122:GLY:O	1:A:304:PHE:HA	2.14	0.47
1:A:246:TYR:CE2	1:A:512:GLY:N	2.81	0.47
1:A:384:LEU:HD22	1:A:384:LEU:N	2.30	0.47
1:A:405:LEU:O	1:A:409:THR:HG23	2.15	0.47
1:A:552:LEU:HD13	1:A:556:TYR:CE2	2.50	0.47
1:B:384:LEU:N	1:B:384:LEU:HD22	2.30	0.47
1:C:95:MET:O	1:C:96:GLY:C	2.58	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:C:127:ARG:HG2	1:C:147:GLU:HB2	1.96	0.47
1:C:263:PHE:O	1:C:263:PHE:CG	2.65	0.47
1:C:350:PHE:CD1	1:D:372:TYR:HB2	2.50	0.47
1:C:550:GLN:H	1:C:550:GLN:CD	2.21	0.47
1:C:671:THR:O	1:C:672:VAL:C	2.57	0.47
1:D:127:ARG:HG2	1:D:147:GLU:HB2	1.96	0.47
1:D:312:ASP:OD2	1:E:178:SER:HB2	2.14	0.47
1:D:411:ALA:HB2	1:E:57:PHE:HD1	1.57	0.47
1:E:75:PRO:O	1:E:76:ILE:HB	2.15	0.47
1:E:243:PRO:O	1:E:244:VAL:HB	2.15	0.47
1:E:248:LYS:CB	1:E:511:ARG:NH1	2.78	0.47
1:E:434:THR:O	1:E:437:GLN:HG2	2.15	0.47
1:E:561:ASP:CG	1:E:562:GLY:N	2.72	0.47
1:F:95:MET:O	1:F:96:GLY:C	2.58	0.47
1:F:126:TRP:CD1	1:F:146:ARG:HG3	2.49	0.47
1:F:248:LYS:CB	1:F:511:ARG:NH1	2.78	0.47
1:F:317:GLU:HB3	1:F:321:ARG:CZ	2.45	0.47
1:F:554:LEU:HD22	1:G:567:MET:HE2	1.97	0.47
1:G:95:MET:O	1:G:96:GLY:C	2.58	0.47
1:G:586:THR:HG22	1:G:590:GLN:NE2	2.30	0.47
1:H:95:MET:O	1:H:96:GLY:C	2.58	0.47
1:H:238:PRO:HB3	1:H:263:PHE:HB2	1.96	0.47
1:H:238:PRO:HD3	1:H:263:PHE:CD2	2.49	0.47
1:H:246:TYR:CE2	1:H:512:GLY:N	2.81	0.47
1:H:429:GLN:H	1:H:429:GLN:CD	2.22	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:586:THR:HG22	1:H:590:GLN:NE2	2.30	0.47
1:I:255:ILE:O	1:I:256:ASP:C	2.57	0.47
1:I:263:PHE:O	1:I:263:PHE:CG	2.65	0.47
1:J:164:LEU:HA	1:J:307:TRP:CH2	2.48	0.47
1:J:248:LYS:CB	1:J:511:ARG:NH1	2.78	0.47
1:J:350:PHE:HA	1:K:372:TYR:O	2.15	0.47
1:J:586:THR:C	1:J:588:GLU:H	2.23	0.47
1:K:552:LEU:HD13	1:K:556:TYR:CE2	2.50	0.47
1:L:11:ILE:O	1:L:11:ILE:HG12	2.15	0.47
1:L:59:VAL:O	1:L:62:PRO:CD	2.51	0.47
1:L:138:THR:HG1	1:L:143:VAL:HA	1.78	0.47
1:L:238:PRO:HG3	1:L:263:PHE:CB	2.44	0.47
1:L:238:PRO:HD3	1:L:263:PHE:CD2	2.49	0.47
1:A:75:PRO:O	1:A:76:ILE:HB	2.15	0.47
1:A:166:ASP:O	1:A:167:LYS:C	2.58	0.47
1:A:248:LYS:CB	1:A:511:ARG:NH1	2.78	0.47
1:B:122:GLY:O	1:B:304:PHE:HA	2.14	0.47
1:C:243:PRO:O	1:C:244:VAL:HB	2.15	0.47
1:C:586:THR:HG22	1:C:590:GLN:NE2	2.30	0.47
1:D:248:LYS:CB	1:D:511:ARG:NH1	2.78	0.47
1:D:602:GLY:O	1:D:606:PRO:N	2.48	0.47
1:E:122:GLY:O	1:E:304:PHE:HA	2.14	0.47
1:E:246:TYR:CE2	1:E:512:GLY:N	2.81	0.47
1:E:552:LEU:HD13	1:E:556:TYR:CE2	2.50	0.47
1:E:586:THR:HG22	1:E:590:GLN:NE2	2.30	0.47
1:F:122:GLY:O	1:F:304:PHE:HA	2.14	0.47
1:F:405:LEU:O	1:F:409:THR:HG23	2.15	0.47
1:G:238:PRO:HD3	1:G:263:PHE:CD2	2.49	0.47
1:G:317:GLU:HB3	1:G:321:ARG:CZ	2.45	0.47
1:G:602:GLY:O	1:G:606:PRO:N	2.48	0.47
1:H:127:ARG:HG2	1:H:147:GLU:HB2	1.96	0.47
1:H:332:MET:O	1:H:333:ILE:C	2.58	0.47
1:H:405:LEU:O	1:H:409:THR:HG23	2.15	0.47
1:I:75:PRO:O	1:I:76:ILE:HB	2.15	0.47
1:I:238:PRO:HB3	1:I:263:PHE:HB2	1.96	0.47
1:I:248:LYS:CB	1:I:511:ARG:NH1	2.78	0.47
1:I:384:LEU:HD22	1:I:384:LEU:N	2.30	0.47
1:I:405:LEU:O	1:I:409:THR:HG23	2.14	0.47
1:J:238:PRO:HB3	1:J:263:PHE:HB2	1.96	0.47
1:J:246:TYR:CE2	1:J:512:GLY:N	2.81	0.47
1:J:332:MET:O	1:J:333:ILE:C	2.58	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:389:LEU:H	1:J:389:LEU:HD12	1.79	0.47
1:J:429:GLN:H	1:J:429:GLN:CD	2.22	0.47
1:K:127:ARG:HG2	1:K:147:GLU:HB2	1.96	0.47
1:K:317:GLU:HB3	1:K:321:ARG:CZ	2.45	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:L:586:THR:HG22	1:L:590:GLN:NE2	2.30	0.47
1:A:262:GLY:O	1:A:263:PHE:HB3	2.14	0.47
1:A:395:PRO:HD2	1:L:398:PRO:HB3	1.96	0.47
1:B:164:LEU:HA	1:B:307:TRP:CH2	2.48	0.47
1:B:248:LYS:CB	1:B:511:ARG:NH1	2.78	0.47
1:B:390:ALA:CB	1:C:387:GLN:HB2	2.45	0.47
1:B:586:THR:C	1:B:588:GLU:H	2.23	0.47
1:C:75:PRO:O	1:C:76:ILE:HB	2.15	0.47
1:C:702:MET:O	1:C:705:ALA:HB3	2.13	0.47
1:D:58:ASP:O	1:D:58:ASP:CG	2.58	0.47
1:D:238:PRO:HB3	1:D:263:PHE:HB2	1.96	0.47
1:D:317:GLU:HB3	1:D:321:ARG:CZ	2.45	0.47
1:E:138:THR:HG1	1:E:143:VAL:HA	1.79	0.47
1:E:405:LEU:O	1:E:409:THR:HG23	2.14	0.47
1:F:71:MET:CE	1:F:115:VAL:HB	2.45	0.47
1:F:75:PRO:O	1:F:76:ILE:HB	2.15	0.47
1:F:262:GLY:O	1:F:263:PHE:HB3	2.14	0.47
1:G:63:VAL:O	1:G:67:LEU:HG	2.15	0.47
1:G:127:ARG:HG2	1:G:147:GLU:HB2	1.96	0.47
1:G:263:PHE:CG	1:G:263:PHE:O	2.65	0.47
1:G:332:MET:O	1:G:333:ILE:C	2.58	0.47
1:H:122:GLY:O	1:H:304:PHE:HA	2.14	0.47
1:H:306:GLU:OE2	1:I:65:ARG:HG2	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
1:H:584:PRO:HB3	1:H:589:GLU:HB2	1.96	0.47
1:I:343:ARG:H	1:I:343:ARG:HG2	1.52	0.47
1:I:552:LEU:HD13	1:I:556:TYR:CE2	2.50	0.47
1:J:405:LEU:O	1:J:409:THR:HG23	2.15	0.47
1:L:434:THR:O	1:L:437:GLN:HG2	2.15	0.47
1:A:95:MET:O	1:A:96:GLY:C	2.58	0.47
1:A:332:MET:O	1:A:333:ILE:C	2.58	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:411:ALA:CB	1:C:57:PHE:CD1	2.98	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:586:THR:HG22	1:B:590:GLN:NE2	2.30	0.47
1:C:238:PRO:HG3	1:C:263:PHE:CB	2.44	0.47
1:C:552:LEU:HD13	1:C:556:TYR:CE2	2.50	0.47
1:C:561:ASP:CG	1:C:562:GLY:N	2.72	0.47
1:C:586:THR:C	1:C:588:GLU:H	2.23	0.47
1:D:207:TRP:O	1:D:208:VAL:C	2.58	0.47
1:D:262:GLY:O	1:D:263:PHE:HB3	2.14	0.47
1:E:63:VAL:O	1:E:67:LEU:HG	2.15	0.47
1:E:207:TRP:O	1:E:208:VAL:C	2.58	0.47
1:E:550:GLN:H	1:E:550:GLN:CD	2.21	0.47
1:F:28:GLU:HB2	1:F:313:LYS:HZ2	1.80	0.47
1:F:332:MET:O	1:F:333:ILE:C	2.58	0.47
1:G:99:ARG:CZ	1:G:524:PHE:HB2	2.45	0.47
1:G:122:GLY:O	1:G:305:GLY:N	2.47	0.47
1:H:27:ARG:HD2	1:I:212:LEU:H	1.78	0.47
1:H:75:PRO:O	1:H:76:ILE:HB	2.15	0.47
1:H:248:LYS:CB	1:H:511:ARG:NH1	2.78	0.47
1:H:552:LEU:HD13	1:H:556:TYR:CE2	2.50	0.47
1:H:561:ASP:CG	1:H:562:GLY:N	2.72	0.47
1:H:585:GLU:HB3	1:H:587:PRO:HD3	1.96	0.47
1:I:122:GLY:HA3	1:I:317:GLU:C	2.41	0.47
1:I:243:PRO:O	1:I:244:VAL:HB	2.15	0.47
1:J:58:ASP:O	1:J:58:ASP:CG	2.58	0.47
1:J:586:THR:HG22	1:J:590:GLN:NE2	2.30	0.47
1:J:634:ILE:O	1:J:638:LYS:N	2.42	0.47
1:K:634:ILE:O	1:K:638:LYS:N	2.42	0.47
1:L:14:ARG:NE	1:L:14:ARG:CA	2.71	0.47
1:L:384:LEU:HD22	1:L:384:LEU:N	2.30	0.47
1:L:429:GLN:H	1:L:429:GLN:CD	2.22	0.47
1:A:99:ARG:CZ	1:A:524:PHE:HB2	2.46	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:C:248:LYS:CB	1:C:511:ARG:NH1	2.78	0.46
1:D:63:VAL:O	1:D:67:LEU:HG	2.15	0.46
1:D:586:THR:C	1:D:588:GLU:H	2.23	0.46
1:E:11:ILE:O	1:E:11:ILE:HG12	2.15	0.46
1:E:329:LEU:O	1:E:330:ARG:C	2.59	0.46
1:E:577:ILE:HG12	1:E:582:LYS:CG	2.36	0.46
1:F:122:GLY:O	1:F:305:GLY:N	2.47	0.46
1:F:255:ILE:O	1:F:256:ASP:C	2.57	0.46
1:F:384:LEU:HD22	1:F:384:LEU:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:586:THR:HG22	1:F:590:GLN:NE2	2.30	0.46
1:G:449:PHE:N	1:G:449:PHE:CD1	2.82	0.46
1:H:434:THR:O	1:H:437:GLN:HG2	2.14	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:J:138:THR:HG1	1:J:143:VAL:HA	1.78	0.46
1:J:350:PHE:HE1	1:K:363:TYR:HE1	1.62	0.46
1:K:63:VAL:O	1:K:67:LEU:HG	2.15	0.46
1:K:384:LEU:HD22	1:K:384:LEU:N	2.30	0.46
1:A:27:ARG:CZ	1:B:211:TRP:CB	2.89	0.46
1:A:122:GLY:HA3	1:A:317:GLU:C	2.40	0.46
1:A:207:TRP:O	1:A:208:VAL:C	2.58	0.46
1:B:11:ILE:O	1:B:11:ILE:HG12	2.15	0.46
1:B:37:ARG:HD2	1:B:37:ARG:HA	1.70	0.46
1:B:207:TRP:O	1:B:208:VAL:C	2.58	0.46
1:B:238:PRO:HG3	1:B:263:PHE:CB	2.44	0.46
1:B:266:ILE:O	1:B:267:ALA:HB2	2.16	0.46
1:B:389:LEU:H	1:B:389:LEU:HD12	1.79	0.46
1:C:266:ILE:O	1:C:267:ALA:HB2	2.16	0.46
1:C:384:LEU:HD22	1:C:384:LEU:N	2.30	0.46
1:C:543:PRO:C	1:C:545:GLY:H	2.22	0.46
1:E:71:MET:CE	1:E:115:VAL:HB	2.45	0.46
1:E:122:GLY:HA3	1:E:317:GLU:C	2.40	0.46
1:E:317:GLU:HB3	1:E:321:ARG:CZ	2.45	0.46
1:E:327:GLN:O	1:E:327:GLN:NE2	2.48	0.46
1:E:584:PRO:HB3	1:E:589:GLU:HB2	1.96	0.46
1:E:586:THR:C	1:E:588:GLU:H	2.23	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:F:263:PHE:O	1:F:263:PHE:CG	2.65	0.46
1:F:552:LEU:HD13	1:F:556:TYR:CE2	2.50	0.46
1:F:702:MET:O	1:F:705:ALA:HB3	2.13	0.46
1:G:384:LEU:N	1:G:384:LEU:HD22	2.30	0.46
1:H:602:GLY:O	1:H:606:PRO:N	2.48	0.46
1:I:63:VAL:O	1:I:67:LEU:HG	2.15	0.46
1:I:329:LEU:O	1:I:330:ARG:C	2.59	0.46
1:I:389:LEU:H	1:I:389:LEU:HD12	1.79	0.46
1:I:561:ASP:CG	1:I:562:GLY:N	2.72	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:J:59:VAL:O	1:J:62:PRO:CD	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:71:MET:CE	1:J:115:VAL:HB	2.45	0.46
1:K:99:ARG:CZ	1:K:524:PHE:HB2	2.46	0.46
1:K:243:PRO:O	1:K:244:VAL:HB	2.15	0.46
1:K:586:THR:HG22	1:K:590:GLN:NE2	2.30	0.46
1:L:248:LYS:CB	1:L:511:ARG:NH1	2.78	0.46
1:L:671:THR:O	1:L:672:VAL:C	2.57	0.46
1:A:11:ILE:O	1:A:11:ILE:HG12	2.15	0.46
1:A:71:MET:CE	1:A:115:VAL:HB	2.45	0.46
1:A:434:THR:O	1:A:437:GLN:HG2	2.15	0.46
1:B:71:MET:CE	1:B:115:VAL:HB	2.45	0.46
1:C:238:PRO:HB3	1:C:263:PHE:HB2	1.96	0.46
1:C:317:GLU:HB3	1:C:321:ARG:CZ	2.45	0.46
1:C:327:GLN:NE2	1:C:327:GLN:O	2.49	0.46
1:C:332:MET:O	1:C:333:ILE:C	2.58	0.46
1:C:584:PRO:CB	1:C:590:GLN:HG2	2.46	0.46
1:D:266:ILE:O	1:D:267:ALA:HB2	2.16	0.46
1:E:384:LEU:HD22	1:E:384:LEU:N	2.30	0.46
1:F:671:THR:O	1:F:672:VAL:C	2.57	0.46
1:G:248:LYS:CB	1:G:511:ARG:NH1	2.78	0.46
1:G:434:THR:O	1:G:437:GLN:HG2	2.14	0.46
1:G:585:GLU:HB3	1:G:587:PRO:HD3	1.96	0.46
1:G:588:GLU:C	1:G:588:GLU:CD	2.84	0.46
1:H:207:TRP:O	1:H:208:VAL:C	2.58	0.46
1:H:262:GLY:O	1:H:263:PHE:HB3	2.14	0.46
1:I:332:MET:O	1:I:333:ILE:C	2.58	0.46
1:J:37:ARG:HD2	1:J:37:ARG:HA	1.70	0.46
1:J:63:VAL:O	1:J:67:LEU:HG	2.15	0.46
1:J:243:PRO:O	1:J:244:VAL:HB	2.15	0.46
1:J:384:LEU:N	1:J:384:LEU:HD22	2.30	0.46
1:K:27:ARG:HD2	1:L:212:LEU:H	1.81	0.46
1:K:95:MET:O	1:K:96:GLY:C	2.58	0.46
1:L:266:ILE:O	1:L:267:ALA:HB2	2.16	0.46
1:L:438:LEU:HD12	1:L:441:ARG:NH1	2.31	0.46
1:L:543:PRO:C	1:L:545:GLY:H	2.22	0.46
1:A:557:PHE:CE2	1:B:563:LYS:CD	2.97	0.46
1:B:58:ASP:O	1:B:58:ASP:CG	2.58	0.46
1:B:243:PRO:O	1:B:244:VAL:HB	2.15	0.46
1:B:405:LEU:O	1:B:409:THR:HG23	2.15	0.46
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:71:MET:CE	1:C:115:VAL:HB	2.45	0.46
1:C:352:TRP:CD1	1:D:374:LEU:O	2.66	0.46
1:D:332:MET:O	1:D:333:ILE:C	2.58	0.46
1:D:351:PHE:O	1:E:374:LEU:N	2.48	0.46
1:D:586:THR:HG22	1:D:590:GLN:NE2	2.30	0.46
1:E:58:ASP:O	1:E:58:ASP:CG	2.58	0.46
1:F:266:ILE:O	1:F:267:ALA:HB2	2.16	0.46
1:F:306:GLU:OE2	1:G:65:ARG:HG2	2.14	0.46
1:F:434:THR:O	1:F:437:GLN:HG2	2.15	0.46
1:G:71:MET:CE	1:G:115:VAL:HB	2.45	0.46
1:G:255:ILE:O	1:G:258:LEU:N	2.47	0.46
1:G:552:LEU:HD13	1:G:556:TYR:CE2	2.50	0.46
1:G:561:ASP:CG	1:G:562:GLY:N	2.72	0.46
1:H:309:PHE:HB2	1:I:150:HIS:CG	2.51	0.46
1:I:327:GLN:NE2	1:I:327:GLN:O	2.48	0.46
1:J:11:ILE:O	1:J:11:ILE:HG12	2.15	0.46
1:J:166:ASP:O	1:J:167:LYS:C	2.58	0.46
1:J:584:PRO:CB	1:J:590:GLN:HG2	2.46	0.46
1:K:71:MET:CE	1:K:115:VAL:HB	2.45	0.46
1:K:75:PRO:O	1:K:76:ILE:HB	2.15	0.46
1:K:115:VAL:CG2	1:K:116:ARG:N	2.79	0.46
1:K:262:GLY:O	1:K:263:PHE:HB3	2.14	0.46
1:L:63:VAL:O	1:L:67:LEU:HG	2.15	0.46
1:L:561:ASP:CG	1:L:562:GLY:N	2.72	0.46
1:A:584:PRO:HB3	1:A:589:GLU:HB2	1.96	0.46
1:B:127:ARG:HG2	1:B:147:GLU:HB2	1.96	0.46
1:B:332:MET:O	1:B:333:ILE:C	2.58	0.46
1:B:552:LEU:HD13	1:B:556:TYR:CE2	2.50	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:C:329:LEU:O	1:C:330:ARG:C	2.59	0.46
1:C:405:LEU:O	1:C:409:THR:HG23	2.15	0.46
1:D:11:ILE:O	1:D:11:ILE:HG12	2.15	0.46
1:D:243:PRO:O	1:D:244:VAL:HB	2.15	0.46
1:D:327:GLN:NE2	1:D:327:GLN:O	2.48	0.46
1:E:263:PHE:O	1:E:264:ILE:C	2.59	0.46
1:F:58:ASP:O	1:F:58:ASP:CG	2.58	0.46
1:F:122:GLY:HA3	1:F:317:GLU:C	2.41	0.46
1:F:588:GLU:CD	1:F:588:GLU:C	2.84	0.46
1:G:243:PRO:O	1:G:244:VAL:HB	2.15	0.46
1:G:263:PHE:O	1:G:264:ILE:C	2.59	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:243:PRO:O	1:H:244:VAL:HB	2.15	0.46
1:H:327:GLN:O	1:H:327:GLN:NE2	2.48	0.46
1:I:11:ILE:O	1:I:11:ILE:HG12	2.15	0.46
1:I:71:MET:CE	1:I:115:VAL:HB	2.45	0.46
1:I:86:ALA:HB2	1:I:515:GLU:HG3	1.98	0.46
1:I:138:THR:HG23	1:I:143:VAL:CG2	2.37	0.46
1:I:266:ILE:O	1:I:267:ALA:HB2	2.16	0.46
1:I:429:GLN:H	1:I:429:GLN:CD	2.22	0.46
1:I:671:THR:O	1:I:672:VAL:C	2.57	0.46
1:K:27:ARG:CZ	1:L:211:TRP:CB	2.93	0.46
1:K:207:TRP:O	1:K:208:VAL:C	2.58	0.46
1:L:75:PRO:O	1:L:76:ILE:HB	2.15	0.46
1:A:63:VAL:O	1:A:67:LEU:HG	2.15	0.46
1:A:449:PHE:N	1:A:449:PHE:CD1	2.82	0.46
1:A:588:GLU:CD	1:A:588:GLU:C	2.84	0.46
1:B:95:MET:O	1:B:96:GLY:C	2.58	0.46
1:B:122:GLY:HA3	1:B:317:GLU:C	2.40	0.46
1:C:438:LEU:HD12	1:C:441:ARG:NH1	2.31	0.46
1:D:99:ARG:CZ	1:D:524:PHE:HB2	2.46	0.46
1:D:115:VAL:CG2	1:D:116:ARG:N	2.79	0.46
1:D:122:GLY:HA3	1:D:317:GLU:C	2.41	0.46
1:D:584:PRO:HB3	1:D:589:GLU:HB2	1.96	0.46
1:E:115:VAL:CG2	1:E:116:ARG:N	2.79	0.46
1:F:11:ILE:O	1:F:11:ILE:HG12	2.15	0.46
1:F:422:THR:CG2	1:F:423:GLU:N	2.79	0.46
1:G:138:THR:HG1	1:G:143:VAL:HA	1.80	0.46
1:G:622:LEU:O	1:G:625:ALA:HB3	2.16	0.46
1:I:91:ALA:O	1:I:94:LEU:N	2.49	0.46
1:I:263:PHE:O	1:I:264:ILE:C	2.59	0.46
1:J:207:TRP:O	1:J:208:VAL:C	2.58	0.46
1:K:588:GLU:CD	1:K:588:GLU:C	2.84	0.46
1:A:73:GLN:NE2	1:L:430:VAL:HG11	2.30	0.46
1:A:438:LEU:HD12	1:A:441:ARG:NH1	2.31	0.46
1:B:317:GLU:HB3	1:B:321:ARG:CZ	2.45	0.46
1:B:588:GLU:C	1:B:588:GLU:CD	2.84	0.46
1:C:238:PRO:HD3	1:C:263:PHE:CD2	2.49	0.46
1:D:95:MET:O	1:D:96:GLY:C	2.58	0.46
1:D:122:GLY:O	1:D:305:GLY:N	2.47	0.46
1:D:329:LEU:O	1:D:330:ARG:C	2.58	0.46
1:D:422:THR:CG2	1:D:423:GLU:N	2.79	0.46
1:F:63:VAL:O	1:F:67:LEU:HG	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:584:PRO:HB3	1:F:589:GLU:HB2	1.96	0.46
1:G:122:GLY:HA3	1:G:317:GLU:C	2.41	0.46
1:G:166:ASP:O	1:G:167:LYS:C	2.58	0.46
1:G:327:GLN:NE2	1:G:327:GLN:O	2.48	0.46
1:G:329:LEU:O	1:G:330:ARG:C	2.59	0.46
1:G:404:MET:SD	1:H:337:ASN:HB3	2.56	0.46
1:H:58:ASP:O	1:H:58:ASP:CG	2.58	0.46
1:H:86:ALA:HB2	1:H:515:GLU:HG3	1.98	0.46
1:H:588:GLU:C	1:H:588:GLU:CD	2.84	0.46
1:I:95:MET:O	1:I:96:GLY:C	2.58	0.46
1:J:86:ALA:HB2	1:J:515:GLU:HG3	1.98	0.46
1:J:433:ASP:O	1:J:436:ASN:HB3	2.16	0.46
1:K:59:VAL:O	1:K:62:PRO:CD	2.51	0.46
1:K:248:LYS:CB	1:K:511:ARG:NH1	2.78	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:K:602:GLY:O	1:K:606:PRO:N	2.48	0.46
1:L:95:MET:O	1:L:96:GLY:C	2.58	0.46
1:L:332:MET:O	1:L:333:ILE:C	2.58	0.46
1:L:528:LYS:HE3	1:L:528:LYS:HB2	1.77	0.46
1:A:243:PRO:O	1:A:244:VAL:HB	2.15	0.46
1:A:322:LEU:HD13	1:A:322:LEU:HA	1.77	0.46
1:B:91:ALA:O	1:B:94:LEU:N	2.49	0.46
1:B:166:ASP:O	1:B:167:LYS:C	2.58	0.46
1:B:433:ASP:O	1:B:436:ASN:HB3	2.16	0.46
1:B:546:THR:O	1:B:547:PRO:C	2.59	0.46
1:C:11:ILE:O	1:C:11:ILE:HG12	2.15	0.46
1:C:63:VAL:O	1:C:67:LEU:HG	2.15	0.46
1:D:237:ASP:H	1:D:243:PRO:HA	1.81	0.46
1:D:552:LEU:HD13	1:D:556:TYR:CE2	2.50	0.46
1:E:86:ALA:HB2	1:E:515:GLU:HG3	1.98	0.46
1:E:332:MET:O	1:E:333:ILE:C	2.58	0.46
1:E:576:LEU:O	1:E:579:MET:HB2	2.16	0.46
1:F:390:ALA:HB1	1:G:387:GLN:HB2	1.97	0.46
1:F:586:THR:C	1:F:588:GLU:H	2.23	0.46
1:G:207:TRP:O	1:G:208:VAL:C	2.58	0.46
1:G:543:PRO:C	1:G:545:GLY:H	2.22	0.46
1:H:122:GLY:HA3	1:H:317:GLU:C	2.40	0.46
1:H:126:TRP:CD1	1:H:126:TRP:C	2.94	0.46
1:H:166:ASP:O	1:H:167:LYS:C	2.58	0.46
1:H:438:LEU:HD12	1:H:441:ARG:NH1	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:411:ALA:HB1	1:J:57:PHE:CD1	2.48	0.46
1:I:588:GLU:CD	1:I:588:GLU:C	2.84	0.46
1:J:91:ALA:O	1:J:94:LEU:N	2.49	0.46
1:J:262:GLY:O	1:J:263:PHE:HB3	2.14	0.46
1:J:327:GLN:O	1:J:327:GLN:NE2	2.49	0.46
1:J:552:LEU:HD13	1:J:556:TYR:CE2	2.50	0.46
1:J:588:GLU:C	1:J:588:GLU:CD	2.84	0.46
1:K:126:TRP:CD1	1:K:126:TRP:C	2.94	0.46
1:K:400:ALA:CB	1:L:395:PRO:HB2	2.45	0.46
1:K:584:PRO:CB	1:K: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:A:528:LYS:HE3	1:A:528:LYS:HB2	1.77	0.46
1:A:576:LEU:O	1:A:579:MET:HB2	2.16	0.46
1:A:584:PRO:CB	1:A:590:GLN:HG2	2.46	0.46
1:B:263:PHE:O	1:B:263:PHE:CD2	2.69	0.46
1:B:329:LEU:O	1:B:330:ARG:C	2.59	0.46
1:C:433:ASP:O	1:C:436:ASN:HB3	2.16	0.46
1:D:27:ARG:HD2	1:E:212:LEU:H	1.81	0.46
1:E:91:ALA:O	1:E:94:LEU:N	2.49	0.46
1:E:143:VAL:CG1	1:E:144:ILE:N	2.79	0.46
1:E:166:ASP:O	1:E:167:LYS:C	2.58	0.46
1:E:237:ASP:H	1:E:243:PRO:HA	1.81	0.46
1:E:263:PHE:CD2	1:E:263:PHE:O	2.69	0.46
1:E:438:LEU:HD12	1:E:441:ARG:NH1	2.31	0.46
1:F:91:ALA:O	1:F:94:LEU:N	2.49	0.46
1:F:115:VAL:CG2	1:F:116:ARG:N	2.79	0.46
1:G:405:LEU:O	1:G:409:THR:HG23	2.14	0.46
1:H:63:VAL:O	1:H:67:LEU:HG	2.15	0.46
1:H:71:MET:CE	1:H:115:VAL:HB	2.45	0.46
1:I:246:TYR:HE2	1:I:512:GLY:CA	2.29	0.46
1:I:438:LEU:HD12	1:I:441:ARG:NH1	2.31	0.46
1:J:122:GLY:HA3	1:J:317:GLU:C	2.40	0.46
1:J:127:ARG:HG2	1:J:147:GLU:HB2	1.96	0.46
1:J:237:ASP:H	1:J:243:PRO:HA	1.81	0.46
1:J:438:LEU:HD12	1:J:441:ARG:NH1	2.31	0.46
1:J:616:LEU:O	1:J:620:ALA:N	2.44	0.46
1:L:99:ARG:CZ	1:L:524:PHE:HB2	2.45	0.46
1:L:115:VAL:CG2	1:L:116:ARG:N	2.79	0.46
1:L:143:VAL:CG1	1:L:144:ILE:N	2.79	0.46
1:A:59:VAL:O	1:A:62:PRO:CD	2.51	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:B:438:LEU:HD12	1:B:441:ARG:NH1	2.31	0.46
1:C:26:ARG:HE	1:C:26:ARG:CA	2.29	0.46
1:D:71:MET:CE	1:D:115:VAL:HB	2.45	0.46
1:D:75:PRO:O	1:D:76:ILE:HB	2.15	0.46
1:D:246:TYR:HE2	1:D:512:GLY:CA	2.29	0.46
1:E:266:ILE:O	1:E:267:ALA:HB2	2.16	0.46
1:E:585:GLU:HB3	1:E:587:PRO:HD3	1.96	0.46
1:F:207:TRP:O	1:F:208:VAL:C	2.58	0.46
1:F:352:TRP:CD2	1:G:376:ARG:HB2	2.51	0.46
1:F:438:LEU:HD12	1:F:441:ARG:NH1	2.31	0.46
1:G:75:PRO:O	1:G:76:ILE:HB	2.15	0.46
1:G:266:ILE:O	1:G:267:ALA:HB2	2.16	0.46
1:G:438:LEU:HD12	1:G:441:ARG:NH1	2.31	0.46
1:G:521:GLY:O	1:G:522:PRO:C	2.59	0.46
1:H:11:ILE:O	1:H:11:ILE:HG12	2.15	0.46
1:H:263:PHE:O	1:H:263:PHE:CG	2.65	0.46
1:I:422:THR:CG2	1:I:423:GLU:N	2.79	0.46
1:J:126:TRP:CD1	1:J:126:TRP:C	2.94	0.46
1:J:263:PHE:O	1:J:263:PHE:CD2	2.69	0.46
1:J:322:LEU:HD13	1:J:322:LEU:HA	1.77	0.46
1:J:350:PHE:HZ	1:J:392:TYR:CD2	2.34	0.46
1:L:584:PRO:CB	1:L:590:GLN:HG2	2.46	0.46
1:L:586:THR:C	1:L:588:GLU:H	2.23	0.46
1:A:91:ALA:O	1:A:94:LEU:N	2.49	0.45
1:A:138:THR:HG1	1:A:143:VAL:HA	1.80	0.45
1:A:234:ILE:CG1	1:A:267:ALA:HB3	2.46	0.45
1:A:237:ASP:H	1:A:243:PRO:HA	1.81	0.45
1:A:246:TYR:HE2	1:A:512:GLY:CA	2.29	0.45
1:B:26:ARG:HE	1:B:26:ARG:CA	2.29	0.45
1:B:86:ALA:HB2	1:B:515:GLU:HG3	1.98	0.45
1:B:126:TRP:CD1	1:B:126:TRP:C	2.94	0.45
1:B:138:THR:HG1	1:B:143:VAL:HA	1.81	0.45
1:B:234:ILE:CG1	1:B:267:ALA:HB3	2.46	0.45
1:B:246:TYR:HE2	1:B:512:GLY:CA	2.29	0.45
1:B:343:ARG:H	1:B:343:ARG:HG2	1.52	0.45
1:B:350:PHE:HE1	1:C:363:TYR:HE1	1.63	0.45
1:C:263:PHE:O	1:C:263:PHE:CD2	2.69	0.45
1:C:541:LYS:HE2	1:C:541:LYS:HB2	1.79	0.45
1:E:37:ARG:HD2	1:E:37:ARG:HA	1.70	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:521:GLY:O	1:E:522:PRO:C	2.59	0.45
1:E:588:GLU:C	1:E:588:GLU:CD	2.84	0.45
1:E:622:LEU:O	1:E:625:ALA:HB3	2.16	0.45
1:F:26:ARG:HE	1:F:26:ARG:CA	2.29	0.45
1:F:234:ILE:HG13	1:F:267:ALA:HB3	1.99	0.45
1:F:263:PHE:CD2	1:F:263:PHE:O	2.69	0.45
1:F:327:GLN:NE2	1:F:327:GLN:O	2.49	0.45
1:F:329:LEU:O	1:F:330:ARG:C	2.59	0.45
1:F:398:PRO:CB	1:G:395:PRO:HD2	2.39	0.45
1:F:546:THR:O	1:F:547:PRO:C	2.59	0.45
1:F:687:ALA:O	1:F:691:LEU:N	2.39	0.45
1:G:60:VAL:O	1:G:61:ARG:C	2.59	0.45
1:H:139:SER:HB2	1:H:457:MET:HE2	1.99	0.45
1:H:263:PHE:CD2	1:H:263:PHE:O	2.69	0.45
1:H:687:ALA:O	1:H:691:LEU:N	2.40	0.45
1:I:115:VAL:CG2	1:I:116:ARG:N	2.79	0.45
1:I:263:PHE:CD2	1:I:263:PHE:O	2.69	0.45
1:I:350:PHE:HZ	1:I:392:TYR:CD2	2.34	0.45
1:J:75:PRO:O	1:J:76:ILE:HB	2.15	0.45
1:J:234:ILE:HG13	1:J:267:ALA:HB3	1.99	0.45
1:J:546:THR:O	1:J:547:PRO:C	2.59	0.45
1:K:91:ALA:O	1:K:94:LEU:N	2.49	0.45
1:K:122:GLY:HA3	1:K:317:GLU:C	2.41	0.45
1:K:433:ASP:O	1:K:436:ASN:HB3	2.16	0.45
1:K:528:LYS:HD2	1:K:560:LEU:HD11	1.98	0.45
1:L:86:ALA:HB2	1:L:515:GLU:HG3	1.98	0.45
1:L:122:GLY:HA3	1:L:317:GLU:C	2.41	0.45
1:L:207:TRP:O	1:L:208:VAL:C	2.58	0.45
1:L:369:TYR:HA	1:L:370:PRO:HD3	1.75	0.45
1:L:622:LEU:O	1:L:625:ALA:HB3	2.16	0.45
1:A:134:ASP:OD2	1:L:229:LYS:HE3	2.16	0.45
1:A:234:ILE:HG13	1:A:267:ALA:HB3	1.99	0.45
1:A:263:PHE:O	1:A:264:ILE:C	2.59	0.45
1:A:433:ASP:O	1:A:436:ASN:HB3	2.16	0.45
1:A:521:GLY:O	1:A:522:PRO:C	2.59	0.45
1:A:586:THR:C	1:A:588:GLU:H	2.23	0.45
1:B:139:SER:HB2	1:B:457:MET:HE2	1.99	0.45
1:C:122:GLY:HA3	1:C:317:GLU:C	2.40	0.45
1:C:246:TYR:HE2	1:C:512:GLY:CA	2.29	0.45
1:C:263:PHE:O	1:C:264:ILE:C	2.59	0.45
1:C:588:GLU:CD	1:C:588:GLU:C	2.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:86:ALA:HB2	1:D:515:GLU:HG3	1.98	0.45
1:D:234:ILE:HG13	1:D:267:ALA:HB3	1.99	0.45
1:D:263:PHE:CD2	1:D:263:PHE:O	2.69	0.45
1:D:577:ILE:CD1	1:D:589:GLU:HB3	2.47	0.45
1:E:246:TYR:HE2	1:E:512:GLY:CA	2.29	0.45
1:F:413:LYS:H	1:F:413:LYS:HG2	1.61	0.45
1:F:433:ASP:O	1:F:436:ASN:HB3	2.16	0.45
1:F:528:LYS:HD2	1:F:560:LEU:HD11	1.99	0.45
1:G:11:ILE:O	1:G:11:ILE:HG12	2.15	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:G:546:THR:O	1:G:547:PRO:C	2.59	0.45
1:H:577:ILE:CD1	1:H:589:GLU:HB3	2.47	0.45
1:J:60:VAL:O	1:J:61:ARG:C	2.59	0.45
1:J:234:ILE:CG1	1:J:267:ALA:HB3	2.46	0.45
1:J:528:LYS:HD2	1:J:560:LEU:HD11	1.99	0.45
1:J:590:GLN:O	1:J:591:GLN:C	2.60	0.45
1:K:327:GLN:NE2	1:K:327:GLN:O	2.48	0.45
1:K:329:LEU:O	1:K:330:ARG:C	2.59	0.45
1:K:332:MET:O	1:K:333:ILE:C	2.58	0.45
1:K:350:PHE:HZ	1:K:392:TYR:CD2	2.34	0.45
1:K:521:GLY:O	1:K:522:PRO:C	2.59	0.45
1:K:724:PRO:N	1:L:725:GLN:O	2.49	0.45
1:L:234:ILE:CG1	1:L:267:ALA:HB3	2.46	0.45
1:L:350:PHE:HZ	1:L:392:TYR:CD2	2.34	0.45
1:A:143:VAL:CG1	1:A:144:ILE:N	2.79	0.45
1:A:573:ASN:O	1:A:574:LYS:C	2.60	0.45
1:A:577:ILE:CD1	1:A:589:GLU:HB3	2.47	0.45
1:B:327:GLN:O	1:B:327:GLN:NE2	2.48	0.45
1:B:550:GLN:O	1:B:551:LEU:C	2.60	0.45
1:B:590:GLN:O	1:B:591:GLN:C	2.60	0.45
1:C:234:ILE:CG1	1:C:267:ALA:HB3	2.46	0.45
1:C:521:GLY:O	1:C:522:PRO:C	2.59	0.45
1:D:634:ILE:O	1:D:638:LYS:N	2.42	0.45
1:F:584:PRO:CB	1:F:590:GLN:HG2	2.46	0.45
1:G:143:VAL:CG1	1:G:144:ILE:N	2.79	0.45
1:G:528:LYS:HD2	1:G:560:LEU:HD11	1.99	0.45
1:G:577:ILE:CD1	1:G:589:GLU:HB3	2.47	0.45
1:H:521:GLY:O	1:H:522:PRO:C	2.60	0.45
1:I:66:LYS:HZ1	1:I:420:VAL:HG11	1.81	0.45
1:I:126:TRP:CD1	1:I:126:TRP:C	2.94	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:237:ASP:H	1:I:243:PRO:HA	1.81	0.45
1:I:584:PRO:CB	1:I:590:GLN:HG2	2.46	0.45
1:J:246:TYR:HE2	1:J:512:GLY:CA	2.29	0.45
1:J:266:ILE:O	1:J:267:ALA:HB2	2.16	0.45
1:J:329:LEU:O	1:J:330:ARG:C	2.58	0.45
1:J:438:LEU:HD11	1:K:108:LYS:HD2	1.97	0.45
1:J:577:ILE:CD1	1:J:589:GLU:HB3	2.47	0.45
1:K:11:ILE:O	1:K:11:ILE:HG12	2.15	0.45
1:K:37:ARG:HA	1:K:37:ARG:HD2	1.70	0.45
1:K:166:ASP:O	1:K:167:LYS:C	2.58	0.45
1:K:263:PHE:CG	1:K:263:PHE:O	2.65	0.45
1:K:586:THR:C	1:K:588:GLU:H	2.23	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:L:329:LEU:O	1:L:330:ARG:C	2.59	0.45
1:A:115:VAL:CG2	1:A:116:ARG:N	2.79	0.45
1:A:263:PHE:O	1:A:263:PHE:CD2	2.69	0.45
1:A:310:VAL:C	1:A:312:ASP:N	2.66	0.45
1:B:63:VAL:O	1:B:67:LEU:HG	2.15	0.45
1:B:528:LYS:HD2	1:B:560:LEU:HD11	1.98	0.45
1:B:577:ILE:CD1	1:B:589:GLU:HB3	2.47	0.45
1:D:234:ILE:CG1	1:D:267:ALA:HB3	2.46	0.45
1:D:588:GLU:C	1:D:588:GLU:CD	2.84	0.45
1:D:590:GLN:O	1:D:591:GLN:C	2.60	0.45
1:E:126:TRP:CD1	1:E:126:TRP:C	2.94	0.45
1:E:139:SER:HB2	1:E:457:MET:HE2	1.99	0.45
1:E:528:LYS:HE3	1:E:528:LYS:HB2	1.77	0.45
1:E:584:PRO:CB	1:E:590:GLN:HG2	2.46	0.45
1:F:411:ALA:CB	1:G:57:PHE:CD1	3.00	0.45
1:F:622:LEU:O	1:F:625:ALA:HB3	2.16	0.45
1:G:88:PRO:C	1:H:561:ASP:HB2	2.41	0.45
1:G:91:ALA:O	1:G:94:LEU:N	2.49	0.45
1:G:234:ILE:CG1	1:G:267:ALA:HB3	2.46	0.45
1:H:91:ALA:O	1:H:94:LEU:N	2.49	0.45
1:H:143:VAL:CG1	1:H:144:ILE:N	2.79	0.45
1:I:143:VAL:CG1	1:I:144:ILE:N	2.79	0.45
1:I:234:ILE:CG1	1:I:267:ALA:HB3	2.46	0.45
1:I:577:ILE:CD1	1:I:589:GLU:HB3	2.47	0.45
1:K:237:ASP:H	1:K:243:PRO:HA	1.81	0.45
1:K:246:TYR:HE2	1:K:512:GLY:CA	2.29	0.45
1:K:263:PHE:O	1:K:264:ILE:C	2.59	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:576:LEU:O	1:K:579:MET:HB2	2.16	0.45
1:K:622:LEU:O	1:K:625:ALA:HB3	2.16	0.45
1:L:248:LYS:H	1:L:248:LYS:CD	2.29	0.45
1:L:550:GLN:O	1:L:551:LEU:C	2.60	0.45
1:L:588:GLU:C	1:L:588:GLU:CD	2.84	0.45
1:B:75:PRO:O	1:B:76:ILE:HB	2.15	0.45
1:B:138:THR:HG23	1:B:143:VAL:CG2	2.37	0.45
1:C:115:VAL:CG2	1:C:116:ARG:N	2.79	0.45
1:C:143:VAL:CG1	1:C:144:ILE:N	2.79	0.45
1:C:171:ARG:HH21	1:D:182:ASN:ND2	2.14	0.45
1:D:91:ALA:O	1:D:94:LEU:N	2.49	0.45
1:E:234:ILE:HG13	1:E:267:ALA:HB3	1.99	0.45
1:F:126:TRP:CD1	1:F:126:TRP:C	2.94	0.45
1:F:409:THR:O	1:F:413:LYS:HG2	2.17	0.45
1:G:237:ASP:H	1:G:243:PRO:HA	1.81	0.45
1:G:350:PHE:HZ	1:G:392:TYR:CD2	2.34	0.45
1:G:541:LYS:HE2	1:G:541:LYS:HB2	1.79	0.45
1:G:584:PRO:CB	1:G:590:GLN:HG2	2.46	0.45
1:H:99:ARG:CZ	1:H:524:PHE:HB2	2.46	0.45
1:I:99:ARG:CZ	1:I:524:PHE:HB2	2.46	0.45
1:I:203:ASN:HA	1:I:204:PRO:HD3	1.74	0.45
1:I:207:TRP:O	1:I:208:VAL:C	2.58	0.45
1:I:521:GLY:O	1:I:522:PRO:C	2.59	0.45
1:I:573:ASN:O	1:I:574:LYS:C	2.60	0.45
1:J:26:ARG:HE	1:J:26:ARG:CA	2.29	0.45
1:J:115:VAL:CG2	1:J:116:ARG:N	2.79	0.45
1:J:237:ASP:HA	1:J:238:PRO:HD2	1.83	0.45
1:K:234:ILE:CG1	1:K:267:ALA:HB3	2.46	0.45
1:K:546:THR:O	1:K:547:PRO:C	2.59	0.45
1:L:126:TRP:CD1	1:L:126:TRP:C	2.94	0.45
1:L:237:ASP:H	1:L:243:PRO:HA	1.81	0.45
1:A:65:ARG:HD3	1:L:418:LEU:HD22	1.99	0.45
1:A:109:ILE:HD13	1:L:165:MET:H	1.81	0.45
1:A:329:LEU:O	1:A:330:ARG:C	2.59	0.45
1:A:546:THR:O	1:A:547:PRO:C	2.59	0.45
1:B:60:VAL:O	1:B:61:ARG:C	2.60	0.45
1:B:248:LYS:H	1:B:248:LYS:CD	2.29	0.45
1:B:350:PHE:HZ	1:B:392:TYR:CD2	2.34	0.45
1:C:528:LYS:HD2	1:C:560:LEU:HD11	1.99	0.45
1:D:126:TRP:CD1	1:D:126:TRP:C	2.94	0.45
1:D:433:ASP:O	1:D:436:ASN:HB3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:438:LEU:HD12	1:D:441:ARG:NH1	2.31	0.45
1:D:622:LEU:O	1:D:625:ALA:HB3	2.16	0.45
1:E:60:VAL:O	1:E:61:ARG:C	2.59	0.45
1:E:573:ASN:O	1:E:574:LYS:C	2.60	0.45
1:G:590:GLN:O	1:G:591:GLN:C	2.60	0.45
1:J:143:VAL:CG1	1:J:144:ILE:N	2.79	0.45
1:K:58:ASP:O	1:K:58:ASP:CG	2.58	0.45
1:K:143:VAL:CG1	1:K:144:ILE:N	2.79	0.45
1:K:263:PHE:CD2	1:K:263:PHE:O	2.69	0.45
1:K:434:THR:O	1:K:438:LEU:HD13	2.17	0.45
1:A:86:ALA:HB2	1:A:515:GLU:HG3	1.98	0.45
1:A:115:VAL:HG23	1:A:116:ARG:N	2.32	0.45
1:A:255:ILE:O	1:A:258:LEU:N	2.47	0.45
1:A:409:THR:O	1:A:413:LYS:HG2	2.17	0.45
1:A:525:GLN:NE2	1:L:441:ARG:HH21	2.15	0.45
1:A:722:GLU:O	1:A:723:THR:C	2.60	0.45
1:A:724:PRO:N	1:B:725:GLN:O	2.49	0.45
1:B:422:THR:CG2	1:B:423:GLU:N	2.79	0.45
1:B:576:LEU:O	1:B:579:MET:HB2	2.16	0.45
1:C:409:THR:O	1:C:413:LYS:HG2	2.17	0.45
1:C:444:LEU:HD13	1:C:444:LEU:N	2.32	0.45
1:C:577:ILE:CD1	1:C:589:GLU:HB3	2.47	0.45
1:D:438:LEU:HD11	1:E:108:LYS:CE	2.47	0.45
1:D:550:GLN:O	1:D:551:LEU:C	2.60	0.45
1:E:409:THR:O	1:E:413:LYS:HG2	2.17	0.45
1:E:550:GLN:O	1:E:551:LEU:C	2.60	0.45
1:E:577:ILE:CD1	1:E:589:GLU:HB3	2.47	0.45
1:F:143:VAL:CG1	1:F:144:ILE:N	2.79	0.45
1:F:166:ASP:O	1:F:167:LYS:C	2.58	0.45
1:F:237:ASP:H	1:F:243:PRO:HA	1.81	0.45
1:F:576:LEU:O	1:F:579:MET:HB2	2.16	0.45
1:G:248:LYS:HZ2	1:G:251:ILE:CD1	2.21	0.45
1:G:422:THR:CG2	1:G:423:GLU:N	2.79	0.45
1:G:434:THR:O	1:G:438:LEU:HD13	2.17	0.45
1:G:573:ASN:O	1:G:574:LYS:C	2.60	0.45
1:H:546:THR:O	1:H:547:PRO:C	2.59	0.45
1:H:584:PRO:CB	1:H:590:GLN:HG2	2.46	0.45
1:I:26:ARG:HE	1:I:26:ARG:CA	2.29	0.45
1:I:58:ASP:O	1:I:58:ASP:CG	2.58	0.45
1:I:234:ILE:HG13	1:I:267:ALA:HB3	1.99	0.45
1:J:411:ALA:HB1	1:K:57:PHE:CD1	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:422:THR:CG2	1:J:423:GLU:N	2.79	0.45
1:K:86:ALA:HB2	1:K:515:GLU:HG3	1.98	0.45
1:L:263:PHE:CD2	1:L:263:PHE:O	2.69	0.45
1:L:263:PHE:O	1:L:264:ILE:C	2.59	0.45
1:A:150:HIS:HB3	1:L:309:PHE:HB2	1.98	0.45
1:A:301:VAL:HA	1:A:302:PRO:HD3	1.67	0.45
1:A:350:PHE:HE1	1:B:363:TYR:CE1	2.25	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:B:115:VAL:CG2	1:B:116:ARG:N	2.79	0.45
1:B:143:VAL:CG1	1:B:144:ILE:N	2.79	0.45
1:C:126:TRP:CD1	1:C:126:TRP:C	2.94	0.45
1:C:234:ILE:HG13	1:C:267:ALA:HB3	1.99	0.45
1:C:236:GLN:N	1:C:265:LYS:HG2	2.32	0.45
1:C:350:PHE:HZ	1:C:392:TYR:CD2	2.34	0.45
1:D:350:PHE:HB3	1:E:374:LEU:CD1	2.46	0.45
1:D:546:THR:O	1:D:547:PRO:C	2.59	0.45
1:D:576:LEU:O	1:D:579:MET:HB2	2.16	0.45
1:E:433:ASP:O	1:E:436:ASN:HB3	2.16	0.45
1:F:99:ARG:CZ	1:F:524:PHE:HB2	2.46	0.45
1:G:115:VAL:HG23	1:G:116:ARG:N	2.32	0.45
1:G:236:GLN:N	1:G:265:LYS:HG2	2.32	0.45
1:H:115:VAL:CG2	1:H:116:ARG:N	2.79	0.45
1:H:266:ILE:O	1:H:267:ALA:HB2	2.16	0.45
1:H:433:ASP:O	1:H:436:ASN:HB3	2.16	0.45
1:I:236:GLN:N	1:I:265:LYS:HG2	2.32	0.45
1:I:586:THR:C	1:I:588:GLU:H	2.23	0.45
1:I:622:LEU:O	1:I:625:ALA:HB3	2.16	0.45
1:J:139:SER:HB2	1:J:457:MET:HE2	1.99	0.45
1:J:622:LEU:O	1:J:625:ALA:HB3	2.16	0.45
1:K:234:ILE:HG13	1:K:267:ALA:HB3	1.99	0.45
1:K:573:ASN:O	1:K:574:LYS:C	2.60	0.45
1:L:198:ILE:HA	1:L:199:PRO:HD3	1.74	0.45
1:L:409:THR:O	1:L:413:LYS:HG2	2.17	0.45
1:A:26:ARG:HA	1:A:26:ARG:NE	2.32	0.45
1:A:26:ARG:HG3	1:A:27:ARG:N	2.32	0.45
1:A:590:GLN:O	1:A:591:GLN:C	2.60	0.45
1:B:236:GLN:N	1:B:265:LYS:HG2	2.32	0.45
1:B:444:LEU:HD13	1:B:444:LEU:N	2.32	0.45
1:C:207:TRP:O	1:C:208:VAL:C	2.58	0.45
1:C:550:GLN:O	1:C:551:LEU:C	2.60	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:E:557:PHE:CE2	1:F:563:LYS:HD3	2.51	0.45
1:F:86:ALA:HB2	1:F:515:GLU:HG3	1.98	0.45
1:F:350:PHE:HZ	1:F:392:TYR:CD2	2.34	0.45
1:F:528:LYS:HE3	1:F:528:LYS:HB2	1.77	0.45
1:G:198:ILE:HA	1:G:199:PRO:HD3	1.74	0.45
1:G:234:ILE:HG13	1:G:267:ALA:HB3	1.99	0.45
1:G:263:PHE:CD2	1:G:263:PHE:O	2.69	0.45
1:H:409:THR:O	1:H:413:LYS:HG2	2.17	0.45
1:H:573:ASN:O	1:H:574:LYS:C	2.60	0.45
1:I:139:SER:HB2	1:I:457:MET:HE2	1.99	0.45
1:I:433:ASP:O	1:I:436:ASN:HB3	2.16	0.45
1:I:541:LYS:HE2	1:I:541:LYS:HB2	1.79	0.45
1:J:409:THR:O	1:J:413:LYS:HG2	2.17	0.45
1:J:434:THR:O	1:J:438:LEU:HD13	2.17	0.45
1:K:236:GLN:N	1:K:265:LYS:HG2	2.32	0.45
1:K:266:ILE:O	1:K:267:ALA:HB2	2.16	0.45
1:L:71:MET:CE	1:L:115:VAL:HB	2.45	0.45
1:L:573:ASN:O	1:L:574:LYS:C	2.60	0.45
1:A:122:GLY:O	1:A:305:GLY:N	2.47	0.45
1:A:350:PHE:CD1	1:B:372:TYR:HB2	2.52	0.45
1:A:422:THR:CG2	1:A:423:GLU:N	2.79	0.45
1:B:237:ASP:H	1:B:243:PRO:HA	1.81	0.45
1:C:86:ALA:HB2	1:C:515:GLU:HG3	1.98	0.45
1:C:576:LEU:O	1:C:579:MET:HB2	2.16	0.45
1:D:60:VAL:O	1:D:61:ARG:C	2.59	0.45
1:D:143:VAL:CG1	1:D:144:ILE:N	2.79	0.45
1:D:171:ARG:NE	1:E:186:ASP:OD1	2.50	0.45
1:D:236:GLN:N	1:D:265:LYS:HG2	2.32	0.45
1:F:246:TYR:HE2	1:F:512:GLY:CA	2.29	0.45
1:F:411:ALA:HB1	1:G:57:PHE:CD1	2.46	0.45
1:G:26:ARG:HA	1:G:26:ARG:NE	2.32	0.45
1:G:58:ASP:O	1:G:58:ASP:CG	2.58	0.45
1:G:126:TRP:CD1	1:G:126:TRP:C	2.94	0.45
1:G:325:ASP:OD2	1:H:56:GLN:N	2.50	0.45
1:G:576:LEU:O	1:G:579:MET:HB2	2.16	0.45
1:H:60:VAL:O	1:H:61:ARG:C	2.60	0.45
1:H:234:ILE:CG1	1:H:267:ALA:HB3	2.46	0.45
1:H:329:LEU:O	1:H:330:ARG:C	2.59	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:586:THR:C	1:H:588:GLU:H	2.23	0.45
1:I:60:VAL:O	1:I:61:ARG:C	2.59	0.45
1:I:248:LYS:H	1:I:248:LYS:CD	2.29	0.45
1:I:422:THR:HG23	1:I:423:GLU:N	2.32	0.45
1:I:590:GLN:O	1:I:591:GLN:C	2.60	0.45
1:J:26:ARG:HA	1:J:26:ARG:NE	2.32	0.45
1:J:722:GLU:O	1:J:723:THR:C	2.60	0.45
1:L:234:ILE:HG13	1:L:267:ALA:HB3	1.99	0.45
1:L:546:THR:O	1:L:547:PRO:C	2.59	0.45
1:A:266:ILE:O	1:A:267:ALA:HB2	2.16	0.44
1:C:622:LEU:O	1:C:625:ALA:HB3	2.16	0.44
1:C:722:GLU:O	1:C:723:THR:C	2.60	0.44
1:D:139:SER:HB2	1:D:457:MET:HE2	1.99	0.44
1:D:263:PHE:O	1:D:264:ILE:C	2.59	0.44
1:D:404:MET:SD	1:E:337:ASN:HB3	2.56	0.44
1:D:521:GLY:O	1:D:522:PRO:C	2.59	0.44
1:E:99:ARG:CZ	1:E:524:PHE:HB2	2.46	0.44
1:E:234:ILE:CG1	1:E:267:ALA:HB3	2.46	0.44
1:E:263:PHE:O	1:E:263:PHE:CG	2.65	0.44
1:E:422:THR:HG23	1:E:423:GLU:N	2.33	0.44
1:F:26:ARG:HG3	1:F:27:ARG:N	2.32	0.44
1:F:33:LEU:C	1:F:33:LEU:HD12	2.42	0.44
1:F:59:VAL:O	1:F:62:PRO:CD	2.51	0.44
1:F:422:THR:HG23	1:F:423:GLU:N	2.33	0.44
1:G:26:ARG:HE	1:G:26:ARG:CA	2.29	0.44
1:G:411:ALA:CB	1:H:57:PHE:CD1	3.00	0.44
1:H:263:PHE:O	1:H:264:ILE:C	2.59	0.44
1:H:622:LEU:O	1:H:625:ALA:HB3	2.16	0.44
1:I:26:ARG:HA	1:I:26:ARG:NE	2.32	0.44
1:I:37:ARG:HA	1:I:37:ARG:HD2	1.70	0.44
1:J:255:ILE:O	1:J:258:LEU:N	2.47	0.44
1:J:573:ASN:O	1:J:574:LYS:C	2.60	0.44
1:J:576:LEU:O	1:J:579:MET:HB2	2.16	0.44
1:K:577:ILE:CD1	1:K:589:GLU:HB3	2.47	0.44
1:L:26:ARG:HG3	1:L:27:ARG:N	2.32	0.44
1:L:236:GLN:N	1:L:265:LYS:HG2	2.32	0.44
1:L:246:TYR:HE2	1:L:512:GLY:CA	2.29	0.44
1:L:576:LEU:O	1:L:579:MET:HB2	2.16	0.44
1:L:577:ILE:CD1	1:L:589:GLU:HB3	2.47	0.44
1:A:271:ILE:HA	1:B:134:ASP:OD2	2.17	0.44
1:A:422:THR:HG23	1:A:423:GLU:N	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:444:LEU:HD13	1:A:444:LEU:N	2.32	0.44
1:A:528:LYS:HD2	1:A:560:LEU:HD11	1.99	0.44
1:A:550:GLN:O	1:A:551:LEU:C	2.60	0.44
1:B:26:ARG:HG3	1:B:27:ARG:N	2.32	0.44
1:B:33:LEU:C	1:B:33:LEU:HD12	2.43	0.44
1:B:409:THR:O	1:B:413:LYS:HG2	2.17	0.44
1:B:521:GLY:O	1:B:522:PRO:C	2.59	0.44
1:B:622:LEU:O	1:B:625:ALA:HB3	2.16	0.44
1:C:573:ASN:O	1:C:574:LYS:C	2.60	0.44
1:D:165:MET:HG3	1:D:307:TRP:CD2	2.53	0.44
1:E:26:ARG:HG3	1:E:27:ARG:N	2.32	0.44
1:E:165:MET:HG3	1:E:307:TRP:CD2	2.53	0.44
1:E:236:GLN:N	1:E:265:LYS:HG2	2.32	0.44
1:E:590:GLN:O	1:E:591:GLN:C	2.60	0.44
1:F:301:VAL:HA	1:F:302:PRO:HD3	1.67	0.44
1:G:246:TYR:HE2	1:G:512:GLY:CA	2.29	0.44
1:G:722:GLU:O	1:G:723:THR:C	2.60	0.44
1:H:26:ARG:HE	1:H:26:ARG:CA	2.29	0.44
1:H:246:TYR:HE2	1:H:512:GLY:CA	2.29	0.44
1:H:590:GLN:O	1:H:591:GLN:C	2.60	0.44
1:I:434:THR:O	1:I:438:LEU:HD13	2.17	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:K:139:SER:HB2	1:K:457:MET:HE2	1.99	0.44
1:K:400:ALA:HB3	1:L:395:PRO:HB2	1.99	0.44
1:L:165:MET:HG3	1:L:307:TRP:CD2	2.53	0.44
1:L:433:ASP:O	1:L:436:ASN:HB3	2.16	0.44
1:A:126:TRP:CD1	1:A:126:TRP:C	2.94	0.44
1:B:26:ARG:HA	1:B:26:ARG:NE	2.32	0.44
1:B:263:PHE:O	1:B:264:ILE:C	2.59	0.44
1:B:554:LEU:HD12	1:B:557:PHE:HD2	1.83	0.44
1:C:139:SER:HB2	1:C:457:MET:HE2	1.99	0.44
1:C:203:ASN:HA	1:C:204:PRO:HD3	1.74	0.44
1:C:554:LEU:HD12	1:C:557:PHE:HD2	1.83	0.44
1:D:554:LEU:HD12	1:D:557:PHE:HD2	1.83	0.44
1:E:255:ILE:O	1:E:258:LEU:N	2.47	0.44
1:E:434:THR:HG23	1:E:435:VAL:N	2.33	0.44
1:F:115:VAL:HG23	1:F:116:ARG:N	2.32	0.44
1:F:234:ILE:CG1	1:F:267:ALA:HB3	2.46	0.44
1:F:554:LEU:HD12	1:F:557:PHE:HD2	1.83	0.44
1:G:66:LYS:HZ1	1:G:420:VAL:HG11	1.80	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:86:ALA:HB2	1:G:515:GLU:HG3	1.98	0.44
1:G:586:THR:C	1:G:588:GLU:H	2.23	0.44
1:H:115:VAL:HG23	1:H:116:ARG:N	2.32	0.44
1:H:434:THR:O	1:H:438:LEU:HD13	2.17	0.44
1:H:722:GLU:O	1:H:723:THR:C	2.60	0.44
1:I:576:LEU:O	1:I:579:MET:HB2	2.16	0.44
1:J:15:PHE:HZ	1:J:283:CYS:SG	2.41	0.44
1:J:263:PHE:O	1:J:264:ILE:C	2.59	0.44
1:J:521:GLY:O	1:J:522:PRO:C	2.59	0.44
1:K:26:ARG:HA	1:K:26:ARG:NE	2.32	0.44
1:K:33:LEU:HD12	1:K:33:LEU:C	2.43	0.44
1:K:45:LEU:O	1:K:46:SER:HB3	2.18	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:L:139:SER:HB2	1:L:457:MET:HE2	1.99	0.44
1:L:158:TRP:HB3	1:L:173:CYS:N	2.33	0.44
1:A:155:HIS:CE1	1:L:312:ASP:OD1	2.70	0.44
1:A:434:THR:O	1:A:438:LEU:HD13	2.17	0.44
1:B:634:ILE:O	1:B:638:LYS:N	2.42	0.44
1:C:15:PHE:HZ	1:C:283:CYS:SG	2.41	0.44
1:C:99:ARG:CZ	1:C:524:PHE:HB2	2.45	0.44
1:C:434:THR:O	1:C:438:LEU:HD13	2.17	0.44
1:C:434:THR:HG23	1:C:435:VAL:N	2.33	0.44
1:D:255:ILE:O	1:D:258:LEU:N	2.47	0.44
1:D:350:PHE:HZ	1:D:392:TYR:CD2	2.34	0.44
1:D:434:THR:O	1:D:438:LEU:HD13	2.17	0.44
1:D:444:LEU:HD13	1:D:444:LEU:N	2.32	0.44
1:D:584:PRO:CB	1:D:590:GLN:HG2	2.46	0.44
1:E:45:LEU:O	1:E:46:SER:HB3	2.18	0.44
1:F:171:ARG:HH21	1:G:182:ASN:HD22	1.66	0.44
1:F:343:ARG:H	1:F:343:ARG:HG2	1.52	0.44
1:F:434:THR:HG23	1:F:435:VAL:N	2.33	0.44
1:G:78:VAL:O	1:G:79:LEU:HD22	2.18	0.44
1:G:147:GLU:HA	1:G:148:PRO:HD3	1.83	0.44
1:H:78:VAL:O	1:H:79:LEU:HD22	2.18	0.44
1:H:237:ASP:H	1:H:243:PRO:HA	1.81	0.44
1:H:369:TYR:HA	1:H:370:PRO:HD3	1.75	0.44
1:I:15:PHE:HZ	1:I:283:CYS:SG	2.41	0.44
1:I:409:THR:O	1:I:413:LYS:HG2	2.17	0.44
1:I:444:LEU:HD13	1:I:444:LEU:N	2.32	0.44
1:J:138:THR:HG23	1:J:143:VAL:CG2	2.37	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:343:ARG:H	1:J:343:ARG:HG2	1.52	0.44
1:J:434:THR:HG23	1:J:435:VAL:N	2.33	0.44
1:K:409:THR:O	1:K:413:LYS:HG2	2.17	0.44
1:K:422:THR:CG2	1:K:423:GLU:N	2.79	0.44
1:L:26:ARG:HA	1:L:26:ARG:NE	2.32	0.44
1:L:66:LYS:HZ1	1:L:420:VAL:HG11	1.80	0.44
1:L:166:ASP:O	1:L:167:LYS:C	2.58	0.44
1:L:590:GLN:O	1:L:591:GLN:C	2.60	0.44
1:A:236:GLN:N	1:A:265:LYS:HG2	2.32	0.44
1:B:722:GLU:O	1:B:723:THR:C	2.60	0.44
1:C:45:LEU:O	1:C:46:SER:HB3	2.18	0.44
1:C:158:TRP:HB3	1:C:173:CYS:N	2.33	0.44
1:D:26:ARG:HA	1:D:26:ARG:NE	2.32	0.44
1:D:528:LYS:HD2	1:D:560:LEU:HD11	1.99	0.44
1:F:45:LEU:O	1:F:46:SER:HB3	2.18	0.44
1:F:444:LEU:HD13	1:F:444:LEU:N	2.32	0.44
1:F:521:GLY:O	1:F:522:PRO:C	2.59	0.44
1:G:15:PHE:HZ	1:G:283:CYS:SG	2.41	0.44
1:G:322:LEU:HD13	1:G:322:LEU:HA	1.77	0.44
1:G:554:LEU:HD12	1:G:557:PHE:HD2	1.83	0.44
1:H:37:ARG:HD2	1:H:37:ARG:HA	1.70	0.44
1:H:122:GLY:O	1:H:305:GLY:N	2.47	0.44
1:I:45:LEU:O	1:I:46:SER:HB3	2.18	0.44
1:J:26:ARG:HG3	1:J:27:ARG:N	2.32	0.44
1:J:78:VAL:O	1:J:79:LEU:HD22	2.18	0.44
1:J:165:MET:HG3	1:J:307:TRP:CD2	2.52	0.44
1:K:722:GLU:O	1:K:723:THR:C	2.60	0.44
1:L:78:VAL:O	1:L:79:LEU:HD22	2.18	0.44
1:L:434:THR:O	1:L:438:LEU:HD13	2.17	0.44
1:A:33:LEU:C	1:A:33:LEU:HD12	2.43	0.44
1:A:139:SER:HB2	1:A:457:MET:HE2	1.99	0.44
1:C:33:LEU:HD12	1:C:33:LEU:C	2.43	0.44
1:C:59:VAL:O	1:C:62:PRO:CD	2.51	0.44
1:C:92:ASP:O	1:C:93:VAL:C	2.61	0.44
1:C:105:ASN:O	1:C:109:ILE:HG13	2.18	0.44
1:C:165:MET:HG3	1:C:307:TRP:CD2	2.53	0.44
1:D:115:VAL:HG23	1:D:116:ARG:N	2.32	0.44
1:D:158:TRP:HB3	1:D:173:CYS:N	2.33	0.44
1:D:392:TYR:HA	1:E:391:TYR:OH	2.18	0.44
1:E:15:PHE:HZ	1:E:283:CYS:SG	2.41	0.44
1:E:26:ARG:HA	1:E:26:ARG:NE	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:26:ARG:HE	1:E:26:ARG:CA	2.29	0.44
1:E:158:TRP:HB3	1:E:173:CYS:N	2.33	0.44
1:F:37:ARG:HA	1:F:37:ARG:HD2	1.70	0.44
1:F:60:VAL:O	1:F:61:ARG:C	2.59	0.44
1:F:236:GLN:N	1:F:265:LYS:HG2	2.32	0.44
1:F:263:PHE:O	1:F:264:ILE:C	2.59	0.44
1:F:434:THR:O	1:F:438:LEU:HD13	2.17	0.44
1:G:165:MET:HG3	1:G:307:TRP:CD2	2.53	0.44
1:H:236:GLN:N	1:H:265:LYS:HG2	2.32	0.44
1:I:26:ARG:HG3	1:I:27:ARG:N	2.32	0.44
1:I:118:GLN:N	1:I:123:VAL:O	2.51	0.44
1:J:92:ASP:O	1:J:93:VAL:C	2.61	0.44
1:K:26:ARG:HE	1:K:26:ARG:CA	2.29	0.44
1:K:158:TRP:HB3	1:K:173:CYS:N	2.33	0.44
1:K:203:ASN:HA	1:K:204:PRO:HD3	1.74	0.44
1:L:60:VAL:O	1:L:61:ARG:C	2.59	0.44
1:L:138:THR:HG23	1:L:143:VAL:CG2	2.37	0.44
1:A:24:GLU:OE2	1:B:213:THR:CG2	2.66	0.44
1:A:60:VAL:O	1:A:61:ARG:C	2.59	0.44
1:A:165:MET:HG3	1:A:307:TRP:CD2	2.53	0.44
1:A:554:LEU:HD12	1:A:557:PHE:HD2	1.83	0.44
1:B:124:GLY:C	1:B:303:VAL:HG22	2.43	0.44
1:B:158:TRP:HB3	1:B:173:CYS:N	2.33	0.44
1:C:26:ARG:HG3	1:C:27:ARG:N	2.32	0.44
1:C:37:ARG:HA	1:C:37:ARG:HD2	1.70	0.44
1:D:15:PHE:HZ	1:D:283:CYS:SG	2.41	0.44
1:D:118:GLN:N	1:D:123:VAL:O	2.51	0.44
1:E:722:GLU:O	1:E:723:THR:C	2.60	0.44
1:F:26:ARG:HA	1:F:26:ARG:NE	2.32	0.44
1:F:78:VAL:O	1:F:79:LEU:HD22	2.18	0.44
1:G:33:LEU:C	1:G:33:LEU:HD12	2.43	0.44
1:G:45:LEU:O	1:G:46:SER:HB3	2.18	0.44
1:G:92:ASP:O	1:G:93:VAL:C	2.61	0.44
1:G:634:ILE:O	1:G:638:LYS:N	2.42	0.44
1:I:415:VAL:HA	1:J:62:PRO:HG3	1.99	0.44
1:J:118:GLN:N	1:J:123:VAL:O	2.51	0.44
1:K:26:ARG:HG3	1:K:27:ARG:N	2.32	0.44
1:K:115:VAL:HG23	1:K:116:ARG:N	2.32	0.44
1:K:118:GLN:N	1:K:123:VAL:O	2.51	0.44
1:K:434:THR:HG23	1:K:435:VAL:N	2.33	0.44
1:L:105:ASN:O	1:L:109:ILE:HG13	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:528:LYS:HD2	1:L:560:LEU:HD11	1.99	0.44
1:A:26:ARG:HE	1:A:26:ARG:CA	2.29	0.44
1:A:118:GLN:HE21	1:A:118:GLN:HB2	1.66	0.44
1:A:325:ASP:OD2	1:B:56:GLN:N	2.50	0.44
1:A:404:MET:HE1	1:B:337:ASN:HB2	2.00	0.44
1:B:99:ARG:CZ	1:B:524:PHE:HB2	2.46	0.44
1:B:115:VAL:HG23	1:B:116:ARG:N	2.32	0.44
1:B:422:THR:HG23	1:B:423:GLU:N	2.33	0.44
1:C:118:GLN:N	1:C:123:VAL:O	2.51	0.44
1:D:124:GLY:C	1:D:303:VAL:HG22	2.43	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:E:33:LEU:C	1:E:33:LEU:HD12	2.43	0.44
1:E:59:VAL:O	1:E:62:PRO:CD	2.51	0.44
1:E:105:ASN:O	1:E:109:ILE:HG13	2.18	0.44
1:E:438:LEU:HD11	1:F:108:LYS:HD2	2.00	0.44
1:E:554:LEU:HD12	1:E:557:PHE:HD2	1.83	0.44
1:F:15:PHE:HZ	1:F:283:CYS:SG	2.41	0.44
1:F:573:ASN:O	1:F:574:LYS:C	2.60	0.44
1:F:643:ASN:O	1:F:647:ALA:CB	2.66	0.44
1:G:26:ARG:HG3	1:G:27:ARG:N	2.32	0.44
1:G:59:VAL:O	1:G:62:PRO:CD	2.51	0.44
1:G:118:GLN:N	1:G:123:VAL:O	2.51	0.44
1:G:158:TRP:HB3	1:G:173:CYS:N	2.33	0.44
1:H:350:PHE:HZ	1:H:392:TYR:CD2	2.34	0.44
1:H:528:LYS:HD2	1:H:560:LEU:HD11	1.98	0.44
1:H:550:GLN:O	1:H:551:LEU:C	2.60	0.44
1:H:576:LEU:O	1:H:579:MET:HB2	2.16	0.44
1:I:33:LEU:C	1:I:33:LEU:HD12	2.43	0.44
1:I:124:GLY:C	1:I:303:VAL:HG22	2.43	0.44
1:I:528:LYS:HD2	1:I:560:LEU:HD11	1.99	0.44
1:K:554:LEU:HD12	1:K:557:PHE:HD2	1.83	0.44
1:L:26:ARG:HE	1:L:26:ARG:CA	2.29	0.44
1:L:554:LEU:HD12	1:L:557:PHE:HD2	1.83	0.44
1:L:634:ILE:O	1:L:638:LYS:N	2.42	0.44
1:A:541:LYS:HE2	1:A:541:LYS:HB2	1.79	0.44
1:B:15:PHE:HZ	1:B:283:CYS:SG	2.41	0.44
1:B:118:GLN:N	1:B:123:VAL:O	2.51	0.44
1:C:26:ARG:HA	1:C:26:ARG:NE	2.32	0.44
1:C:422:THR:HG23	1:C:423:GLU:N	2.33	0.44
1:D:138:THR:HG1	1:D:143:VAL:HA	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:422:THR:HG23	1:D:423:GLU:N	2.33	0.44
1:D:434:THR:HG23	1:D:435:VAL:N	2.33	0.44
1:D:722:GLU:O	1:D:723:THR:C	2.60	0.44
1:F:577:ILE:CD1	1:F:589:GLU:HB3	2.47	0.44
1:F:590:GLN:O	1:F:591:GLN:C	2.60	0.44
1:G:409:THR:O	1:G:413:LYS:HG2	2.17	0.44
1:G:550:GLN:O	1:G:551:LEU:C	2.60	0.44
1:H:33:LEU:C	1:H:33:LEU:HD12	2.43	0.44
1:H:59:VAL:O	1:H:62:PRO:CD	2.51	0.44
1:H:92:ASP:O	1:H:93:VAL:C	2.61	0.44
1:H:105:ASN:O	1:H:109:ILE:HG13	2.18	0.44
1:I:643:ASN:O	1:I:647:ALA:CB	2.66	0.44
1:I:722:GLU:O	1:I:723:THR:C	2.60	0.44
1:J:33:LEU:C	1:J:33:LEU:HD12	2.43	0.44
1:J:95:MET:O	1:J:96:GLY:C	2.58	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:K:387:GLN:H	1:K:387:GLN:HG2	1.60	0.44
1:L:157:ILE:O	1:L:174:THR:HG23	2.18	0.44
1:L:322:LEU:HA	1:L:322:LEU:HD13	1.77	0.44
1:L:521:GLY:O	1:L:522:PRO:C	2.59	0.44
1:L:541:LYS:HE2	1:L:541:LYS:HB2	1.79	0.44
1:L:722:GLU:O	1:L:723:THR:C	2.60	0.44
1:A:58:ASP:OD1	1:A:58:ASP:C	2.61	0.43
1:A:78:VAL:O	1:A:79:LEU:HD22	2.18	0.43
1:B:105:ASN:O	1:B:109:ILE:HG13	2.18	0.43
1:B:311:GLU:O	1:B:312:ASP:CB	2.66	0.43
1:C:35:PHE:C	1:C:37:ARG:N	2.58	0.43
1:C:115:VAL:HG23	1:C:116:ARG:N	2.32	0.43
1:C:413:LYS:HG2	1:C:413:LYS:H	1.61	0.43
1:C:643:ASN:O	1:C:647:ALA:CB	2.66	0.43
1:D:26:ARG:HG3	1:D:27:ARG:N	2.32	0.43
1:D:45:LEU:O	1:D:46:SER:HB3	2.18	0.43
1:D:105:ASN:O	1:D:109:ILE:HG13	2.18	0.43
1:D:369:TYR:HA	1:D:370:PRO:HD3	1.75	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:E:124:GLY:C	1:E:303:VAL:HG22	2.43	0.43
1:E:528:LYS:HD2	1:E:560:LEU:HD11	1.99	0.43
1:E:657:MET:O	1:E:661:LYS:CB	2.67	0.43
1:F:24:GLU:OE2	1:G:213:THR:HG22	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:165:MET:HG3	1:F:307:TRP:CD2	2.53	0.43
1:F:325:ASP:OD2	1:G:56:GLN:N	2.51	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:H:26:ARG:HG3	1:H:27:ARG:N	2.32	0.43
1:H:165:MET:HG3	1:H:307:TRP:CD2	2.52	0.43
1:J:105:ASN:O	1:J:109:ILE:HG13	2.18	0.43
1:J:643:ASN:O	1:J:647:ALA:CB	2.66	0.43
1:K:60:VAL:O	1:K:61:ARG:C	2.59	0.43
1:K:78:VAL:O	1:K:79:LEU:HD22	2.18	0.43
1:K:444:LEU:HD13	1:K:444:LEU:N	2.32	0.43
1:A:45:LEU:O	1:A:46:SER:HB3	2.18	0.43
1:A:105:ASN:O	1:A:109:ILE:HG13	2.18	0.43
1:B:45:LEU:O	1:B:46:SER:HB3	2.18	0.43
1:B:234:ILE:HG13	1:B:267:ALA:HB3	1.98	0.43
1:B:237:ASP:HA	1:B:238:PRO:HD2	1.83	0.43
1:B:301:VAL:HA	1:B:302:PRO:HD3	1.67	0.43
1:C:138:THR:HG1	1:C:143:VAL:HA	1.82	0.43
1:C:590:GLN:O	1:C:591:GLN:C	2.60	0.43
1:D:26:ARG:HE	1:D:26:ARG:CA	2.29	0.43
1:D:58:ASP:OD1	1:D:58:ASP:C	2.61	0.43
1:E:14:ARG:NE	1:E:14:ARG:CA	2.71	0.43
1:E:31:ASN:HD22	1:E:31:ASN:HA	1.65	0.43
1:E:634:ILE:O	1:E:638:LYS:N	2.42	0.43
1:F:105:ASN:O	1:F:109:ILE:HG13	2.18	0.43
1:F:124:GLY:C	1:F:303:VAL:HG22	2.43	0.43
1:F:138:THR:HG23	1:F:143:VAL:CG2	2.37	0.43
1:F:550:GLN:O	1:F:551:LEU:C	2.60	0.43
1:G:124:GLY:C	1:G:303:VAL:HG22	2.43	0.43
1:G:139:SER:HB2	1:G:457:MET:HE2	1.99	0.43
1:H:88:PRO:C	1:I:561:ASP:HB2	2.43	0.43
1:H:422:THR:HG23	1:H:423:GLU:N	2.33	0.43
1:I:78:VAL:O	1:I:79:LEU:HD22	2.18	0.43
1:I:158:TRP:HB3	1:I:173:CYS:N	2.33	0.43
1:I:554:LEU:HD12	1:I:557:PHE:HD2	1.83	0.43
1:J:115:VAL:HG23	1:J:116:ARG:N	2.32	0.43
1:J:157:ILE:O	1:J:174:THR:HG23	2.18	0.43
1:J:444:LEU:HD13	1:J:444:LEU:N	2.32	0.43
1:K:124:GLY:C	1:K:303:VAL:HG22	2.43	0.43
1:L:422:THR:HG23	1:L:423:GLU:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:58:ASP:CG	1:A:58:ASP:O	2.58	0.43
1:B:92:ASP:O	1:B:93:VAL:C	2.61	0.43
1:C:78:VAL:O	1:C:79:LEU:HD22	2.18	0.43
1:C:124:GLY:C	1:C:303:VAL:HG22	2.43	0.43
1:D:33:LEU:C	1:D:33:LEU:HD12	2.43	0.43
1:D:384:LEU:HD22	1:D:384:LEU:H	1.84	0.43
1:D:571:TYR:CZ	1:D:575:GLN:CG	3.01	0.43
1:E:369:TYR:HA	1:E:370:PRO:HD3	1.75	0.43
1:E:418:LEU:HB2	1:E:428:GLY:O	2.19	0.43
1:E:571:TYR:CZ	1:E:575:GLN:CG	3.01	0.43
1:H:138:THR:HG1	1:H:143:VAL:HA	1.82	0.43
1:H:422:THR:CG2	1:H:423:GLU:N	2.79	0.43
1:I:105:ASN:O	1:I:109:ILE:HG13	2.18	0.43
1:I:115:VAL:HG23	1:I:116:ARG:N	2.32	0.43
1:I:165:MET:HG3	1:I:307:TRP:CD2	2.52	0.43
1:I:411:ALA:CB	1:J:57:PHE:CD1	3.02	0.43
1:J:422:THR:HG23	1:J:423:GLU:N	2.33	0.43
1:K:97:MET:O	1:K:98:TYR:C	2.61	0.43
1:A:108:LYS:NZ	1:L:434:THR:OG1	2.49	0.43
1:A:118:GLN:N	1:A:123:VAL:O	2.51	0.43
1:A:124:GLY:C	1:A:303:VAL:HG22	2.43	0.43
1:A:157:ILE:O	1:A:174:THR:HG23	2.18	0.43
1:B:59:VAL:O	1:B:62:PRO:CD	2.51	0.43
1:B:434:THR:HG23	1:B:435:VAL:N	2.33	0.43
1:B:573:ASN:O	1:B:574:LYS:C	2.60	0.43
1:D:157:ILE:O	1:D:174:THR:HG23	2.18	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: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
1:G:58:ASP:OD1	1:G:58:ASP:C	2.61	0.43
1:G:352:TRP:CG	1:H:376:ARG:HB2	2.53	0.43
1:G:384:LEU:HD22	1:G:384:LEU:H	1.84	0.43
1:H:234:ILE:HG13	1:H:267:ALA:HB3	1.99	0.43
1:I:157:ILE:O	1:I:174:THR:HG23	2.18	0.43
1:I:657:MET:O	1:I:661:LYS:CB	2.66	0.43
1:J:550:GLN:O	1:J:551:LEU:C	2.60	0.43
1:K:15:PHE:HZ	1:K:283:CYS:SG	2.41	0.43
1:K:616:LEU:O	1:K:620:ALA:N	2.44	0.43
1:L:15:PHE:HZ	1:L:283:CYS:SG	2.41	0.43
1:L:434:THR:HG23	1:L:435:VAL:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:444:LEU:HD13	1:L:444:LEU:N	2.32	0.43
1:A:37:ARG:HA	1:A:37:ARG:HD2	1.70	0.43
1:A:657:MET:O	1:A:661:LYS:CB	2.66	0.43
1:B:255:ILE:O	1:B:258:LEU:N	2.47	0.43
1:C:58:ASP:OD1	1:C:58:ASP:C	2.61	0.43
1:C:264:ILE:HG12	1:C:265:LYS:N	2.34	0.43
1:C:418:LEU:HB2	1:C:428:GLY:O	2.19	0.43
1:D:264:ILE:HG12	1:D:265:LYS:N	2.34	0.43
1:D:418:LEU:HB2	1:D:428:GLY:O	2.19	0.43
1:D:573:ASN:O	1:D:574:LYS:C	2.60	0.43
1:F:157:ILE:O	1:F:174:THR:HG23	2.18	0.43
1:F:418:LEU:HB2	1:F:428:GLY:O	2.19	0.43
1:G:422:THR:HG23	1:G:423:GLU:N	2.33	0.43
1:H:45:LEU:O	1:H:46:SER:HB3	2.18	0.43
1:H:124:GLY:C	1:H:303:VAL:HG22	2.43	0.43
1:H:311:GLU:O	1:H:312:ASP:CB	2.66	0.43
1:H:434:THR:HG23	1:H:435:VAL:N	2.33	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:J:443:ASP:C	1:J:446:THR:HG22	2.44	0.43
1:K:165:MET:HG3	1:K:307:TRP:CD2	2.53	0.43
1:K:542:THR:HA	1:K:543:PRO:HD3	1.89	0.43
1:L:45:LEU:O	1:L:46:SER:HB3	2.18	0.43
1:L:273:ARG:HH21	1:L:513:ARG:HH22	1.67	0.43
1:L:375:ASN:O	1:L:385:PRO:HG3	2.19	0.43
1:A:150:HIS:HD1	1:L:309:PHE:HB2	1.83	0.43
1:A:158:TRP:HB3	1:A:173:CYS:N	2.33	0.43
1:B:78:VAL:O	1:B:79:LEU:HD22	2.18	0.43
1:B:97:MET:O	1:B:98:TYR:C	2.61	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:C:27:ARG:HG2	1:D:212:LEU:CD1	2.38	0.43
1:C:60:VAL:O	1:C:61:ARG:C	2.59	0.43
1:C:422:THR:CG2	1:C:423:GLU:N	2.79	0.43
1:D:97:MET:O	1:D:98:TYR:C	2.61	0.43
1:D:456:ALA:O	1:D:457:MET:HG2	2.19	0.43
1:D:616:LEU:O	1:D:620:ALA:N	2.44	0.43
1:E:78:VAL:O	1:E:79:LEU:HD22	2.18	0.43
1:E:264:ILE:HG12	1:E:265:LYS:N	2.34	0.43
1:E:384:LEU:HD22	1:E:384:LEU:H	1.84	0.43
1:F:139:SER:HB2	1:F:457:MET:HE2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:722:GLU:O	1:F:723:THR:C	2.60	0.43
1:G:15:PHE:O	1:G:19:TRP:HB2	2.19	0.43
1:G:386:THR:HG21	1:G:389:LEU:HD21	2.01	0.43
1:H:82:PRO:HB2	1:H:83:LYS:H	1.63	0.43
1:H:554:LEU:HD12	1:H:557:PHE:HD2	1.83	0.43
1:H:657:MET:O	1:H:661:LYS:CB	2.66	0.43
1:I:352:TRP:C	1:I:354:GLU:N	2.76	0.43
1:I:384:LEU:HD22	1:I:384:LEU:H	1.84	0.43
1:I:434:THR:HG23	1:I:435:VAL:N	2.33	0.43
1:J:37:ARG:C	1:J:39:SER:N	2.76	0.43
1:J:571:TYR:CZ	1:J:575:GLN:CG	3.01	0.43
1:J:657:MET:O	1:J:661:LYS:CB	2.66	0.43
1:K:550:GLN:O	1:K:551:LEU:C	2.60	0.43
1:K:657:MET:O	1:K:661:LYS:CB	2.67	0.43
1:L:33:LEU:C	1:L:33:LEU:HD12	2.43	0.43
1:L:264:ILE:HG12	1:L:265:LYS:N	2.34	0.43
1:L:643:ASN:O	1:L:647:ALA:CB	2.66	0.43
1:A:57:PHE:CD1	1:L:411:ALA:HB2	2.54	0.43
1:A:456:ALA:O	1:A:457:MET:HG2	2.19	0.43
1:B:273:ARG:HH21	1:B:513:ARG:HH22	1.67	0.43
1:C:456:ALA:O	1:C:457:MET:HG2	2.19	0.43
1:D:92:ASP:O	1:D:93:VAL:C	2.61	0.43
1:E:15:PHE:O	1:E:19:TRP:HB2	2.19	0.43
1:E:541:LYS:HE2	1:E:541:LYS:HB2	1.79	0.43
1:F:15:PHE:HE2	1:F:19:TRP:NE1	2.17	0.43
1:F:92:ASP:O	1:F:93:VAL:C	2.61	0.43
1:F:456:ALA:O	1:F:457:MET:HG2	2.19	0.43
1:G:616:LEU:O	1:G:620:ALA:N	2.44	0.43
1:G:643:ASN:O	1:G:647:ALA:CB	2.66	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:H:26:ARG:HA	1:H:26:ARG:NE	2.32	0.43
1:H:118:GLN:N	1:H:123:VAL:O	2.51	0.43
1:H:157:ILE:O	1:H:174:THR:HG23	2.18	0.43
1:H:571:TYR:CZ	1:H:575:GLN:CG	3.01	0.43
1:I:37:ARG:C	1:I:39:SER:N	2.76	0.43
1:I:58:ASP:OD1	1:I:58:ASP:C	2.61	0.43
1:I:92:ASP:O	1:I:93:VAL:C	2.61	0.43
1:J:236:GLN:N	1:J:265:LYS:HG2	2.32	0.43
1:J:264:ILE:HG12	1:J:265:LYS:N	2.34	0.43
1:K:58:ASP:OD1	1:K:58:ASP:C	2.61	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:643:ASN:O	1:K:647:ALA:CB	2.66	0.43
1:A:92:ASP:O	1:A:93:VAL:C	2.61	0.43
1:A:175:VAL:HG22	1:A:221:GLU:HB2	2.01	0.43
1:A:571:TYR:CZ	1:A:575:GLN:CG	3.01	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:B:643:ASN:O	1:B:647:ALA:CB	2.66	0.43
1:D:15:PHE:HE2	1:D:19:TRP:NE1	2.17	0.43
1:D:78:VAL:O	1:D:79:LEU:HD22	2.18	0.43
1:D:175:VAL:HG22	1:D:221:GLU:HB2	2.01	0.43
1:D:199:PRO:HB3	1:D:282:THR:CG2	2.46	0.43
1:D:312:ASP:CG	1:E:155:HIS:HE2	2.27	0.43
1:D:325:ASP:OD2	1:E:56:GLN:HG3	2.19	0.43
1:D:352:TRP:C	1:D:354:GLU:N	2.76	0.43
1:E:301:VAL:HA	1:E:302:PRO:HD3	1.67	0.43
1:E:456:ALA:O	1:E:457:MET:HG2	2.19	0.43
1:F:375:ASN:O	1:F:385:PRO:HG3	2.19	0.43
1:G:82:PRO:HB2	1:G:83:LYS:H	1.63	0.43
1:G:418:LEU:HB2	1:G:428:GLY:O	2.19	0.43
1:G:444:LEU:HD13	1:G:444:LEU:N	2.32	0.43
1:H:643:ASN:O	1:H:647:ALA:CB	2.66	0.43
1:I:443:ASP:C	1:I:446:THR:HG22	2.44	0.43
1:J:309:PHE:HB2	1:K:150:HIS:ND1	2.34	0.43
1:J:456:ALA:O	1:J:457:MET:HG2	2.19	0.43
1:K:105:ASN:O	1:K:109:ILE:HG13	2.18	0.43
1:K:264:ILE:HG12	1:K:265:LYS:N	2.34	0.43
1:K:384:LEU:HD22	1:K:384:LEU:H	1.84	0.43
1:K:571:TYR:CZ	1:K:575:GLN:CG	3.01	0.43
1:L:58:ASP:O	1:L:58:ASP:CG	2.58	0.43
1:L:92:ASP:O	1:L:93:VAL:C	2.61	0.43
1:B:264:ILE:HG12	1:B:265:LYS:N	2.34	0.43
1:C:375:ASN:O	1:C:385:PRO:HG3	2.19	0.43
1:D:15:PHE:O	1:D:19:TRP:HB2	2.19	0.43
1:D:643:ASN:O	1:D:647:ALA:CB	2.66	0.43
1:E:175:VAL:HG22	1:E:221:GLU:HB2	2.01	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:F:617:GLN:O	1:F:621:GLU:N	2.52	0.43
1:G:37:ARG:C	1:G:39:SER:N	2.76	0.43
1:G:37:ARG:HD2	1:G:37:ARG:HA	1.70	0.43
1:G:199:PRO:HB3	1:G:282:THR:CG2	2.46	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:375:ASN:O	1:G:385:PRO:HG3	2.19	0.43
1:G:443:ASP:C	1:G:446:THR:HG22	2.44	0.43
1:G:456:ALA:O	1:G:457:MET:HG2	2.19	0.43
1:H:58:ASP:OD1	1:H:58:ASP:C	2.61	0.43
1:H:97:MET:O	1:H:98:TYR:C	2.61	0.43
1:H:158:TRP:HB3	1:H:173:CYS:N	2.33	0.43
1:H:175:VAL:HG22	1:H:221:GLU:HB2	2.01	0.43
1:H:273:ARG:HH21	1:H:513:ARG:HH22	1.67	0.43
1:H:456:ALA:O	1:H:457:MET:HG2	2.19	0.43
1:I:546:THR:O	1:I:547:PRO:C	2.59	0.43
1:J:15:PHE:HE2	1:J:19:TRP:NE1	2.17	0.43
1:J:273:ARG:HH21	1:J:513:ARG:HH22	1.67	0.43
1:K:92:ASP:O	1:K:93:VAL:C	2.61	0.43
1:K:273:ARG:HH21	1:K:513:ARG:HH22	1.67	0.43
1:K:456:ALA:O	1:K:457:MET:HG2	2.19	0.43
1:L:58:ASP:OD1	1:L:58:ASP:C	2.61	0.43
1:L:443:ASP:C	1:L:446:THR:HG22	2.44	0.43
1:A:92:ASP:HB3	1:B:561:ASP:OD2	2.19	0.43
1:B:15:PHE:HE2	1:B:19:TRP:NE1	2.17	0.43
1:B:175:VAL:HG22	1:B:221:GLU:HB2	2.01	0.43
1:C:66:LYS:HZ1	1:C:420:VAL:HG11	1.80	0.43
1:C:237:ASP:HA	1:C:238:PRO:HD2	1.83	0.43
1:C:571:TYR:CZ	1:C:575:GLN:CG	3.01	0.43
1:D:348:LYS:HA	1:D:349:PRO:HD3	1.87	0.43
1:D:386:THR:HG21	1:D:389:LEU:HD21	2.01	0.43
1:D:657:MET:O	1:D:661:LYS:CB	2.66	0.43
1:E:326:GLY:O	1:E:329:LEU:HB2	2.19	0.43
1:E:444:LEU:HD13	1:E:444:LEU:N	2.32	0.43
1:F:158:TRP:HB3	1:F:173:CYS:N	2.33	0.43
1:F:175:VAL:HG22	1:F:221:GLU:HB2	2.01	0.43
1:F:199:PRO:HB3	1:F:282:THR:CG2	2.46	0.43
1:G:273:ARG:HH21	1:G:513:ARG:HH22	1.67	0.43
1:G:326:GLY:O	1:G:329:LEU:HB2	2.19	0.43
1:G:434:THR:HG23	1:G:435:VAL:N	2.33	0.43
1:H:418:LEU:HB2	1:H:428:GLY:O	2.19	0.43
1:H:616:LEU:O	1:H:620:ALA:N	2.44	0.43
1:I:22:SER:C	1:I:24:GLU:H	2.27	0.43
1:I:175:VAL:HG22	1:I:221:GLU:HB2	2.01	0.43
1:I:310:VAL:C	1:I:312:ASP:N	2.66	0.43
1:I:400:ALA:CB	1:J:395:PRO:HB2	2.48	0.43
1:I:634:ILE:O	1:I:638:LYS:N	2.42	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:58:ASP:OD1	1:J:58:ASP:C	2.61	0.43
1:J:124:GLY:C	1:J:303:VAL:HG22	2.43	0.43
1:J:326:GLY:O	1:J:329:LEU:HB2	2.19	0.43
1:J:375:ASN:O	1:J:385:PRO:HG3	2.19	0.43
1:K:255:ILE:O	1:K:258:LEU:N	2.47	0.43
1:K:590:GLN:O	1:K:591:GLN:C	2.60	0.43
1:L:384:LEU:HD22	1:L:384:LEU:H	1.84	0.43
1:A:97:MET:O	1:A:98:TYR:C	2.61	0.42
1:A:273:ARG:HH21	1:A:513:ARG:HH22	1.67	0.42
1:A:418:LEU:HB2	1:A:428:GLY:O	2.19	0.42
1:A:443:ASP:C	1:A:446:THR:HG22	2.44	0.42
1:A:643:ASN:O	1:A:647:ALA:CB	2.66	0.42
1:B:157:ILE:O	1:B:174:THR:HG23	2.18	0.42
1:B:386:THR:HG21	1:B:389:LEU:HD21	2.01	0.42
1:B:443:ASP:C	1:B:446:THR:HG22	2.44	0.42
1:B:456:ALA:O	1:B:457:MET:HG2	2.19	0.42
1:C:58:ASP:O	1:C:58:ASP:CG	2.58	0.42
1:C:546:THR:O	1:C:547:PRO:C	2.59	0.42
1:D:59:VAL:O	1:D:62:PRO:CD	2.51	0.42
1:D:165:MET:H	1:E:109:ILE:HD13	1.83	0.42
1:D:326:GLY:O	1:D:329:LEU:HB2	2.19	0.42
1:E:443:ASP:C	1:E:446:THR:HG22	2.44	0.42
1:E:643:ASN:O	1:E:647:ALA:CB	2.66	0.42
1:F:84:ASP:OD1	1:G:526:SER:HB2	2.18	0.42
1:F:273:ARG:HH21	1:F:513:ARG:HH22	1.67	0.42
1:G:309:PHE:HB2	1:H:150:HIS:ND1	2.34	0.42
1:H:444:LEU:HD13	1:H:444:LEU:N	2.32	0.42
1:I:15:PHE:HE2	1:I:19:TRP:NE1	2.17	0.42
1:I:147:GLU:HA	1:I:148:PRO:HD3	1.83	0.42
1:I:375:ASN:O	1:I:385:PRO:HG3	2.19	0.42
1:I:571:TYR:CZ	1:I:575:GLN:CG	3.01	0.42
1:J:203:ASN:HA	1:J:204:PRO:HD3	1.74	0.42
1:K:118:GLN:HE21	1:K:118:GLN:HB2	1.66	0.42
1:L:91:ALA:O	1:L:92:ASP:C	2.62	0.42
1:L:657:MET:O	1:L:661:LYS:CB	2.67	0.42
1:A:15:PHE:O	1:A:19:TRP:HB2	2.19	0.42
1:A:326:GLY:O	1:A:329:LEU:HB2	2.19	0.42
1:B:58:ASP:OD1	1:B:58:ASP:C	2.61	0.42
1:B:91:ALA:O	1:B:92:ASP:C	2.62	0.42
1:B:571:TYR:CZ	1:B:575:GLN:CG	3.01	0.42
1:B:657:MET:O	1:B:661:LYS:CB	2.66	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:175:VAL:HG22	1:C:221:GLU:HB2	2.01	0.42
1:C:657:MET:O	1:C:661:LYS:CB	2.66	0.42
1:D:440:MET:O	1:D:443:ASP:HB3	2.20	0.42
1:D:559:LEU:HD23	1:D:559:LEU:HA	1.85	0.42
1:D:596:ALA:O	1:D:599:ALA:HB3	2.20	0.42
1:E:273:ARG:HH21	1:E:513:ARG:HH22	1.67	0.42
1:E:344:THR:HA	1:E:345:PRO:HD3	1.90	0.42
1:F:237:ASP:HA	1:F:238:PRO:HD2	1.83	0.42
1:F:352:TRP:C	1:F:354:GLU:N	2.76	0.42
1:F:443:ASP:C	1:F:446:THR:HG22	2.44	0.42
1:G:352:TRP:C	1:G:354:GLU:N	2.76	0.42
1:H:264:ILE:HG12	1:H:265:LYS:N	2.34	0.42
1:H:326:GLY:O	1:H:329:LEU:HB2	2.19	0.42
1:H:375:ASN:O	1:H:385:PRO:HG3	2.19	0.42
1:I:326:GLY:O	1:I:329:LEU:HB2	2.19	0.42
1:I:386:THR:HG21	1:I:389:LEU:HD21	2.01	0.42
1:I:456:ALA:O	1:I:457:MET:HG2	2.19	0.42
1:K:157:ILE:O	1:K:174:THR:HG23	2.18	0.42
1:K:198:ILE:HA	1:K:199:PRO:HD3	1.74	0.42
1:K:326:GLY:O	1:K:329:LEU:HB2	2.19	0.42
1:K:440:MET:O	1:K:443:ASP:HB3	2.20	0.42
1:L:37:ARG:C	1:L:39:SER:N	2.76	0.42
1:L:418:LEU:HB2	1:L:428:GLY:O	2.19	0.42
1:A:57:PHE:CE1	1:L:411:ALA:CB	3.02	0.42
1:A:311:GLU:O	1:A:312:ASP:CB	2.66	0.42
1:A:384:LEU:HD22	1:A:384:LEU:H	1.84	0.42
1:A:386:THR:HG21	1:A:389:LEU:HD21	2.01	0.42
1:A:411:ALA:HB1	1:B:57:PHE:HD1	1.84	0.42
1:A:617:GLN:O	1:A:621:GLU:N	2.52	0.42
1:B:326:GLY:O	1:B:329:LEU:HB2	2.19	0.42
1:B:440:MET:O	1:B:443:ASP:HB3	2.20	0.42
1:B:596:ALA:O	1:B:599:ALA:HB3	2.20	0.42
1:C:15:PHE:O	1:C:19:TRP:HB2	2.19	0.42
1:C:37:ARG:C	1:C:39:SER:N	2.76	0.42
1:C:440:MET:O	1:C:443:ASP:HB3	2.20	0.42
1:C:443:ASP:C	1:C:446:THR:HG22	2.44	0.42
1:C:617:GLN:O	1:C:621:GLU:N	2.52	0.42
1:D:375:ASN:O	1:D:385:PRO:HG3	2.19	0.42
1:E:15:PHE:HE2	1:E:19:TRP:NE1	2.17	0.42
1:E:218:GLN:HE21	1:E:218:GLN:HB2	1.64	0.42
1:E:422:THR:CG2	1:E:423:GLU:N	2.79	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:440:MET:O	1:E:443:ASP:HB3	2.20	0.42
1:F:264:ILE:HG12	1:F:265:LYS:N	2.34	0.42
1:G:89:ASP:HA	1:H:561:ASP:CG	2.42	0.42
1:H:440:MET:O	1:H:443:ASP:HB3	2.20	0.42
1:H:443:ASP:C	1:H:446:THR:HG22	2.44	0.42
1:H:634:ILE:O	1:H:638:LYS:N	2.42	0.42
1:I:118:GLN:HE21	1:I:118:GLN:HB2	1.66	0.42
1:I:325:ASP:OD2	1:J:56:GLN:CB	2.61	0.42
1:I:550:GLN:O	1:I:551:LEU:C	2.60	0.42
1:J:15:PHE:O	1:J:19:TRP:HB2	2.19	0.42
1:J:301:VAL:HA	1:J:302:PRO:HD3	1.66	0.42
1:J:384:LEU:HD22	1:J:384:LEU:H	1.84	0.42
1:K:15:PHE:O	1:K:19:TRP:HB2	2.19	0.42
1:K:15:PHE:HE2	1:K:19:TRP:NE1	2.17	0.42
1:K:352:TRP:C	1:K:354:GLU:N	2.76	0.42
1:K:418:LEU:HB2	1:K:428:GLY:O	2.19	0.42
1:L:15:PHE:HE2	1:L:19:TRP:NE1	2.17	0.42
1:L:456:ALA:O	1:L:457:MET:HG2	2.19	0.42
1:A:434:THR:HG23	1:A:435:VAL:N	2.33	0.42
1:C:157:ILE:O	1:C:174:THR:HG23	2.18	0.42
1:D:157:ILE:O	1:D:157:ILE:HG12	2.20	0.42
1:F:15:PHE:O	1:F:19:TRP:HB2	2.19	0.42
1:F:58:ASP:OD1	1:F:58:ASP:C	2.61	0.42
1:F:157:ILE:O	1:F:157:ILE:HG12	2.20	0.42
1:F:208:VAL:HB	1:F:209:PHE:H	1.75	0.42
1:F:596:ALA:O	1:F:599:ALA:HB3	2.19	0.42
1:H:386:THR:HG21	1:H:389:LEU:HD21	2.01	0.42
1:I:352:TRP:CD1	1:J:374:LEU:O	2.70	0.42
1:I:418:LEU:HB2	1:I:428:GLY:O	2.19	0.42
1:I:438:LEU:HD11	1:J:108:LYS:HD2	2.02	0.42
1:J:175:VAL:HG22	1:J:221:GLU:HB2	2.01	0.42
1:J:418:LEU:HB2	1:J:428:GLY:O	2.19	0.42
1:J:617:GLN:O	1:J:621:GLU:N	2.52	0.42
1:L:118:GLN:N	1:L:123:VAL:O	2.51	0.42
1:L:386:THR:HG21	1:L:389:LEU:HD21	2.01	0.42
1:L:422:THR:CG2	1:L:423:GLU:N	2.79	0.42
1:A:208:VAL:HB	1:A:209:PHE:H	1.75	0.42
1:A:369:TYR:HA	1:A:370:PRO:HD3	1.75	0.42
1:C:255:ILE:O	1:C:258:LEU:N	2.47	0.42
1:C:352:TRP:C	1:C:354:GLU:N	2.76	0.42
1:D:45:LEU:O	1:D:46:SER:CB	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:352:TRP:HD1	1:E:374:LEU:C	2.25	0.42
1:D:617:GLN:O	1:D:621:GLU:N	2.52	0.42
1:E:45:LEU:O	1:E:46:SER:CB	2.68	0.42
1:E:202:GLN:HE21	1:E:202:GLN:HB2	1.69	0.42
1:F:348:LYS:HB2	1:G:372:TYR:CD2	2.54	0.42
1:H:91:ALA:O	1:H:92:ASP:C	2.63	0.42
1:J:122:GLY:O	1:J:305:GLY:N	2.47	0.42
1:J:345:PRO:HB3	1:K:372:TYR:OH	2.20	0.42
1:J:596:ALA:O	1:J:599:ALA:HB3	2.20	0.42
1:K:329:LEU:HD13	1:K:329:LEU:HA	1.92	0.42
1:K:386:THR:HG21	1:K:389:LEU:HD21	2.01	0.42
1:K:422:THR:HG23	1:K:423:GLU:N	2.33	0.42
1:K:652:GLU:O	1:K:653:ILE:C	2.63	0.42
1:L:124:GLY:C	1:L:303:VAL:HG22	2.43	0.42
1:A:24:GLU:OE2	1:B:213:THR:HG22	2.20	0.42
1:A:248:LYS:HE2	1:A:513:ARG:HH12	1.85	0.42
1:C:22:SER:C	1:C:24:GLU:H	2.27	0.42
1:C:273:ARG:HH21	1:C:513:ARG:HH22	1.67	0.42
1:E:157:ILE:O	1:E:174:THR:HG23	2.18	0.42
1:E:375:ASN:O	1:E:385:PRO:HG3	2.19	0.42
1:E:652:GLU:O	1:E:653:ILE:C	2.63	0.42
1:F:571:TYR:CZ	1:F:575:GLN:CG	3.01	0.42
1:G:91:ALA:O	1:G:92:ASP:C	2.62	0.42
1:J:91:ALA:O	1:J:92:ASP:C	2.62	0.42
1:J:413:LYS:HG2	1:J:413:LYS:H	1.61	0.42
1:J:440:MET:O	1:J:443:ASP:HB3	2.20	0.42
1:K:175:VAL:HG22	1:K:221:GLU:HB2	2.01	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:K:596:ALA:O	1:K:599:ALA:HB3	2.20	0.42
1:L:175:VAL:HG22	1:L:221:GLU:HB2	2.01	0.42
1:L:237:ASP:HA	1:L:238:PRO:HD2	1.83	0.42
1:L:326:GLY:O	1:L:329:LEU:HB2	2.19	0.42
1:L:571:TYR:CZ	1:L:575:GLN:CG	3.01	0.42
1:B:122:GLY:O	1:B:305:GLY:N	2.47	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:E:157:ILE:O	1:E:157:ILE:HG12	2.20	0.42
1:G:15:PHE:HE2	1:G:19:TRP:NE1	2.17	0.42
1:G:264:ILE:HG12	1:G:265:LYS:N	2.34	0.42
1:G:571:TYR:CZ	1:G:575:GLN:CG	3.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:229:LYS:HA	1:H:271:ILE:O	2.20	0.42
1:H:352:TRP:C	1:H:354:GLU:N	2.76	0.42
1:I:67:LEU:HG	1:I:67:LEU:H	1.68	0.42
1:K:411:ALA:CB	1:L:57:PHE:CD1	3.02	0.42
1:L:440:MET:O	1:L:443:ASP:HB3	2.20	0.42
1:A:229:LYS:HA	1:A:271:ILE:O	2.20	0.42
1:A:230:GLU:HG3	1:A:231:THR:H	1.84	0.42
1:A:264:ILE:HG12	1:A:265:LYS:N	2.34	0.42
1:A:440:MET:O	1:A:443:ASP:HB3	2.20	0.42
1:A:634:ILE:O	1:A:638:LYS:N	2.42	0.42
1:A:652:GLU:O	1:A:653:ILE:C	2.63	0.42
1:B:15:PHE:O	1:B:19:TRP:HB2	2.19	0.42
1:B:229:LYS:HA	1:B:271:ILE:O	2.20	0.42
1:C:326:GLY:O	1:C:329:LEU:HB2	2.19	0.42
1:D:91:ALA:O	1:D:92:ASP:C	2.62	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:D:404:MET:HE1	1:E:334:MET:HA	2.02	0.42
1:D:443:ASP:C	1:D:446:THR:HG22	2.44	0.42
1:E:39:SER:O	1:E:41:TRP:N	2.50	0.42
1:F:322:LEU:HD13	1:F:322:LEU:HA	1.77	0.42
1:F:384:LEU:HD22	1:F:384:LEU:H	1.84	0.42
1:F:586:THR:C	1:F:588:GLU:N	2.78	0.42
1:G:344:THR:HA	1:G:345:PRO:HD3	1.90	0.42
1:G:413:LYS:HE2	1:G:413:LYS:HB3	1.88	0.42
1:H:22:SER:C	1:H:24:GLU:H	2.27	0.42
1:H:45:LEU:O	1:H:46:SER:CB	2.68	0.42
1:H:80:TYR:CZ	1:H:448:VAL:HG22	2.55	0.42
1:H:147:GLU:HA	1:H:148:PRO:HD3	1.83	0.42
1:I:15:PHE:O	1:I:19:TRP:HB2	2.19	0.42
1:I:80:TYR:CZ	1:I:448:VAL:HG22	2.55	0.42
1:I:91:ALA:O	1:I:92:ASP:C	2.62	0.42
1:J:236:GLN:HB2	1:J:265:LYS:CE	2.50	0.42
1:K:199:PRO:HB3	1:K:282:THR:CG2	2.46	0.42
1:A:157:ILE:O	1:A:157:ILE:HG12	2.20	0.42
1:A:375:ASN:O	1:A:385:PRO:HG3	2.19	0.42
1:A:596:ALA:O	1:A:599:ALA:HB3	2.20	0.42
1:B:45:LEU:O	1:B:46:SER:CB	2.68	0.42
1:B:80:TYR:CZ	1:B:448:VAL:HG22	2.55	0.42
1:B:147:GLU:HA	1:B:148:PRO:HD3	1.83	0.42
1:B:352:TRP:C	1:B:354:GLU:N	2.76	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:80:TYR:CZ	1:C:448:VAL:HG22	2.55	0.42
1:C:458:ARG:HH21	1:C:500:ALA:CB	2.33	0.42
1:D:34:PHE:C	1:D:37:ARG:HB2	2.45	0.42
1:E:596:ALA:O	1:E:599:ALA:HB3	2.20	0.42
1:F:386:THR:HG21	1:F:389:LEU:HD21	2.01	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:I:528:LYS:HE3	1:I:528:LYS:HB2	1.77	0.42
1:K:39:SER:O	1:K:41:TRP:N	2.50	0.42
1:K:229:LYS:HA	1:K:271:ILE:O	2.20	0.42
1:K:352:TRP:CE2	1:L:385:PRO:HG2	2.55	0.42
1:L:15:PHE:O	1:L:19:TRP:HB2	2.19	0.42
1:A:80:TYR:CZ	1:A:448:VAL:HG22	2.55	0.42
1:A:91:ALA:O	1:A:92:ASP:C	2.62	0.42
1:A:150:HIS:CE1	1:L:309:PHE:CD2	3.07	0.42
1:A:420:VAL:HA	1:A:428:GLY:HA3	2.02	0.42
1:B:236:GLN:HB2	1:B:265:LYS:CE	2.50	0.42
1:B:248:LYS:HB3	1:B:511:ARG:NH1	2.35	0.42
1:B:420:VAL:HA	1:B:428:GLY:HA3	2.02	0.42
1:C:322:LEU:HA	1:C:322:LEU:HD13	1.77	0.42
1:C:384:LEU:HD22	1:C:384:LEU:H	1.84	0.42
1:D:398:PRO:CB	1:E:395:PRO:HD2	2.45	0.42
1:D:407:ALA:HB1	1:E:334:MET:HE1	2.02	0.42
1:F:362:MET:HE2	1:F:369:TYR:CG	2.55	0.42
1:F:401:ASN:OD1	1:G:341:VAL:HG13	2.20	0.42
1:F:458:ARG:HH21	1:F:500:ALA:CB	2.33	0.42
1:G:440:MET:O	1:G:443:ASP:HB3	2.19	0.42
1:G:542:THR:HA	1:G:543:PRO:HD3	1.89	0.42
1:G:652:GLU:O	1:G:653:ILE:C	2.63	0.42
1:H:15:PHE:HE2	1:H:19:TRP:NE1	2.17	0.42
1:H:199:PRO:HB3	1:H:282:THR:CG2	2.47	0.42
1:H:458:ARG:HH21	1:H:500:ALA:CB	2.33	0.42
1:H:652:GLU:O	1:H:653:ILE:C	2.63	0.42
1:I:448:VAL:HB	1:I:449:PHE:CD1	2.55	0.42
1:I:586:THR:C	1:I:588:GLU:N	2.78	0.42
1:K:22:SER:C	1:K:24:GLU:H	2.27	0.42
1:K:248:LYS:HE2	1:K:513:ARG:HH12	1.85	0.42
1:L:37:ARG:HA	1:L:37:ARG:HD2	1.70	0.42
1:L:199:PRO:HB3	1:L:282:THR:CG2	2.47	0.42
1:L:458:ARG:HH21	1:L:500:ALA:CB	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:155:HIS:CE1	1:L:312:ASP:CG	2.98	0.41
1:A:203:ASN:HA	1:A:204:PRO:HD3	1.74	0.41
1:A:362:MET:HE2	1:A:369:TYR:CG	2.55	0.41
1:A:616:LEU:O	1:A:620:ALA:N	2.44	0.41
1:B:118:GLN:O	1:B:122:GLY:HA2	2.20	0.41
1:B:458:ARG:HH21	1:B:500:ALA:CB	2.33	0.41
1:C:99:ARG:HH12	1:C:530:GLN:HE21	1.68	0.41
1:D:448:VAL:HB	1:D:449:PHE:CD1	2.55	0.41
1:E:179:MET:SD	1:E:184:TRP:CA	3.08	0.41
1:E:458:ARG:HH21	1:E:500:ALA:CB	2.33	0.41
1:E:546:THR:O	1:E:547:PRO:C	2.59	0.41
1:F:80:TYR:CZ	1:F:448:VAL:HG22	2.55	0.41
1:F:91:ALA:O	1:F:92:ASP:C	2.62	0.41
1:F:97:MET:O	1:F:98:TYR:C	2.61	0.41
1:F:440:MET:O	1:F:443:ASP:HB3	2.20	0.41
1:F:616:LEU:O	1:F:620:ALA:N	2.44	0.41
1:G:164:LEU:HB2	1:H:109:ILE:HG21	2.01	0.41
1:G:175:VAL:HG22	1:G:221:GLU:HB2	2.01	0.41
1:H:401:ASN:OD1	1:I:341:VAL:HG13	2.20	0.41
1:H:586:THR:C	1:H:588:GLU:N	2.78	0.41
1:J:45:LEU:O	1:J:46:SER:CB	2.68	0.41
1:J:97:MET:O	1:J:98:TYR:C	2.61	0.41
1:J:322:LEU:HD12	1:K:58:ASP:CG	2.25	0.41
1:J:438:LEU:HD11	1:K:108:LYS:CE	2.50	0.41
1:K:45:LEU:O	1:K:46:SER:CB	2.68	0.41
1:K:99:ARG:HH12	1:K:530:GLN:HE21	1.68	0.41
1:K:448:VAL:HB	1:K:449:PHE:CD1	2.55	0.41
1:L:179:MET:SD	1:L:184:TRP:CA	3.08	0.41
1:L:230:GLU:HG3	1:L:231:THR:H	1.84	0.41
1:L:348:LYS:HA	1:L:349:PRO:HD3	1.87	0.41
1:L:362:MET:HE2	1:L:369:TYR:CG	2.55	0.41
1:A:552:LEU:HD13	1:A:556:TYR:HE2	1.86	0.41
1:B:230:GLU:HG3	1:B:231:THR:H	1.84	0.41
1:C:179:MET:SD	1:C:184:TRP:CA	3.08	0.41
1:C:236:GLN:HB2	1:C:265:LYS:CE	2.50	0.41
1:D:22:SER:C	1:D:24:GLU:H	2.27	0.41
1:D:37:ARG:C	1:D:39:SER:N	2.76	0.41
1:D:118:GLN:O	1:D:122:GLY:HA2	2.20	0.41
1:D:434:THR:HA	1:D:437:GLN:NE2	2.36	0.41
1:E:58:ASP:OD1	1:E:58:ASP:C	2.61	0.41
1:E:97:MET:O	1:E:98:TYR:C	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:118:GLN:O	1:F:122:GLY:HA2	2.20	0.41
1:F:434:THR:HA	1:F:437:GLN:NE2	2.36	0.41
1:G:404:MET:HE1	1:H:337:ASN:HB2	2.02	0.41
1:G:586:THR:C	1:G:588:GLU:N	2.78	0.41
1:H:27:ARG:CZ	1:I:211:TRP:CB	2.96	0.41
1:H:248:LYS:HE2	1:H:513:ARG:HH12	1.85	0.41
1:I:45:LEU:O	1:I:46:SER:CB	2.68	0.41
1:I:350:PHE:HA	1:J:372:TYR:O	2.21	0.41
1:I:440:MET:O	1:I:443:ASP:HB3	2.20	0.41
1:I:596:ALA:O	1:I:599:ALA:HB3	2.20	0.41
1:I:652:GLU:O	1:I:653:ILE:C	2.63	0.41
1:J:22:SER:C	1:J:24:GLU:H	2.27	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:387:GLN:H	1:J:387:GLN:HG2	1.60	0.41
1:K:37:ARG:C	1:K:39:SER:N	2.76	0.41
1:K:89:ASP:CA	1:L:561:ASP:HB2	2.49	0.41
1:K:179:MET:SD	1:K:184:TRP:CA	3.08	0.41
1:K:218:GLN:HE21	1:K:218:GLN:HB2	1.64	0.41
1:K:230:GLU:HG3	1:K:231:THR:H	1.84	0.41
1:K:434:THR:HA	1:K:437:GLN:NE2	2.36	0.41
1:K:443:ASP:C	1:K:446:THR:HG22	2.44	0.41
1:A:15:PHE:HE2	1:A:19:TRP:NE1	2.17	0.41
1:A:41:TRP:CZ3	1:A:44:TRP:O	2.74	0.41
1:A:179:MET:SD	1:A:184:TRP:CA	3.08	0.41
1:A:272:LYS:HD3	1:B:132:TYR:O	2.20	0.41
1:B:552:LEU:HD13	1:B:556:TYR:HE2	1.86	0.41
1:D:179:MET:SD	1:D:184:TRP:CA	3.08	0.41
1:D:312:ASP:OD2	1:E:178:SER:CB	2.68	0.41
1:D:441:ARG:HH21	1:E:525:GLN:HE22	1.66	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:G:80:TYR:CZ	1:G:448:VAL:HG22	2.55	0.41
1:G:157:ILE:O	1:G:174:THR:HG23	2.18	0.41
1:G:236:GLN:HB2	1:G:265:LYS:CE	2.50	0.41
1:H:198:ILE:HA	1:H:199:PRO:HD3	1.74	0.41
1:H:203:ASN:HA	1:H:204:PRO:HD3	1.74	0.41
1:H:208:VAL:C	1:H:210:PRO:HD3	2.46	0.41
1:H:248:LYS:HB3	1:H:511:ARG:NH1	2.35	0.41
1:H:387:GLN:H	1:H:387:GLN:HG2	1.60	0.41
1:H:438:LEU:HD11	1:I:108:LYS:HD2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:448:VAL:HB	1:H:449:PHE:CD1	2.55	0.41
1:J:448:VAL:HB	1:J:449:PHE:CD1	2.55	0.41
1:J:458:ARG:HH21	1:J:500:ALA:CB	2.33	0.41
1:J:552:LEU:HD13	1:J:556:TYR:HE2	1.85	0.41
1:K:118:GLN:O	1:K:122:GLY:HA2	2.21	0.41
1:K:208:VAL:C	1:K:210:PRO:HD3	2.45	0.41
1:K:362:MET:HE2	1:K:369:TYR:CG	2.55	0.41
1:K:528:LYS:HB2	1:K:528:LYS:HE3	1.77	0.41
1:L:22:SER:C	1:L:24:GLU:H	2.27	0.41
1:L:41:TRP:CZ3	1:L:44:TRP:O	2.74	0.41
1:L:80:TYR:CZ	1:L:448:VAL:HG22	2.55	0.41
1:L:99:ARG:HH12	1:L:530:GLN:HE21	1.68	0.41
1:L:352:TRP:C	1:L:354:GLU:N	2.76	0.41
1:A:67:LEU:HG	1:A:67:LEU:H	1.68	0.41
1:A:99:ARG:HH12	1:A:530:GLN:HE21	1.68	0.41
1:A:208:VAL:C	1:A:210:PRO:HD3	2.45	0.41
1:A:248:LYS:HB3	1:A:511:ARG:NH1	2.35	0.41
1:A:352:TRP:C	1:A:354:GLU:N	2.76	0.41
1:A:448:VAL:HB	1:A:449:PHE:CD1	2.55	0.41
1:B:384:LEU:HD22	1:B:384:LEU:H	1.84	0.41
1:B:413:LYS:HE2	1:B:413:LYS:HB3	1.88	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:C:350:PHE:CE1	1:D:372:TYR:HB2	2.55	0.41
1:D:236:GLN:HB3	1:D:265:LYS:HZ3	1.83	0.41
1:D:463:ILE:HA	1:D:496:VAL:O	2.21	0.41
1:E:41:TRP:CZ3	1:E:44:TRP:O	2.74	0.41
1:E:118:GLN:O	1:E:122:GLY:HA2	2.21	0.41
1:E:352:TRP:C	1:E:354:GLU:N	2.76	0.41
1:E:400:ALA:HB2	1:F:395:PRO:HB2	2.01	0.41
1:E:420:VAL:HA	1:E:428:GLY:HA3	2.02	0.41
1:E:552:LEU:HD13	1:E:556:TYR:HE2	1.85	0.41
1:F:229:LYS:HA	1:F:271:ILE:O	2.20	0.41
1:G:277:TYR:CE1	1:G:292:LEU:HD12	2.56	0.41
1:G:390:ALA:HB3	1:H:387:GLN:OE1	2.20	0.41
1:H:118:GLN:O	1:H:122:GLY:HA2	2.20	0.41
1:H:236:GLN:HB2	1:H:265:LYS:CE	2.50	0.41
1:H:277:TYR:CE1	1:H:292:LEU:HD12	2.56	0.41
1:H:384:LEU:HD22	1:H:384:LEU:H	1.84	0.41
1:H:554:LEU:HD22	1:I:567:MET:CE	2.50	0.41
1:I:99:ARG:HH12	1:I:530:GLN:HE21	1.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:352:TRP:C	1:I:354:GLU:H	2.29	0.41
1:I:513:ARG:O	1:I:514:TYR:C	2.64	0.41
1:J:386:THR:HG21	1:J:389:LEU:HD21	2.01	0.41
1:K:80:TYR:CZ	1:K:448:VAL:HG22	2.55	0.41
1:L:248:LYS:HE2	1:L:513:ARG:HH12	1.85	0.41
1:A:22:SER:C	1:A:24:GLU:H	2.27	0.41
1:A:48:TYR:CZ	1:A:210:PRO:HG2	2.56	0.41
1:B:277:TYR:CE1	1:B:292:LEU:HD12	2.56	0.41
1:B:310:VAL:HB	1:B:311:GLU:H	1.74	0.41
1:B:434:THR:HA	1:B:437:GLN:NE2	2.36	0.41
1:B:463:ILE:HA	1:B:496:VAL:O	2.21	0.41
1:C:48:TYR:CZ	1:C:210:PRO:HG2	2.56	0.41
1:C:139:SER:HB3	1:C:455:THR:HG23	2.03	0.41
1:C:463:ILE:HA	1:C:496:VAL:O	2.21	0.41
1:D:41:TRP:CZ3	1:D:44:TRP:O	2.74	0.41
1:E:138:THR:HG23	1:E:143:VAL:CG2	2.37	0.41
1:E:554:LEU:HD21	1:F:564:GLY:CA	2.33	0.41
1:F:352:TRP:C	1:F:354:GLU:H	2.29	0.41
1:F:513:ARG:O	1:F:514:TYR:C	2.64	0.41
1:G:41:TRP:CZ3	1:G:44:TRP:O	2.74	0.41
1:G:179:MET:SD	1:G:184:TRP:CA	3.08	0.41
1:G:413:LYS:HG2	1:G:413:LYS:H	1.61	0.41
1:H:41:TRP:CZ3	1:H:44:TRP:O	2.74	0.41
1:H:118:GLN:HE21	1:H:118:GLN:HB2	1.66	0.41
1:H:166:ASP:OD1	1:H:168:SER:CB	2.68	0.41
1:I:277:TYR:CE1	1:I:292:LEU:HD12	2.56	0.41
1:I:422:THR:HG22	1:I:425:VAL:CG2	2.51	0.41
1:I:463:ILE:HA	1:I:496:VAL:O	2.21	0.41
1:J:48:TYR:CZ	1:J:210:PRO:HG2	2.56	0.41
1:J:147:GLU:HA	1:J:148:PRO:HD3	1.83	0.41
1:J:208:VAL:HB	1:J:209:PHE:H	1.75	0.41
1:J:541:LYS:HE2	1:J:541:LYS:HB2	1.79	0.41
1:K:41:TRP:CZ3	1:K:44:TRP:O	2.74	0.41
1:L:229:LYS:HA	1:L:271:ILE:O	2.20	0.41
1:L:596:ALA:O	1:L:599:ALA:HB3	2.20	0.41
1:L:617:GLN:O	1:L:621:GLU:N	2.52	0.41
1:A:337:ASN:HB2	1:L:404:MET:CE	2.50	0.41
1:A:723:THR:CB	1:B:725:GLN:O	2.68	0.41
1:B:34:PHE:C	1:B:37:ARG:HB2	2.45	0.41
1:B:48:TYR:CZ	1:B:210:PRO:HG2	2.56	0.41
1:B:157:ILE:O	1:B:157:ILE:HG12	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:208:VAL:HB	1:B:211:TRP:CZ2	2.56	0.41
1:B:248:LYS:HE2	1:B:513:ARG:HH12	1.85	0.41
1:B:322:LEU:HA	1:B:322:LEU:HD13	1.77	0.41
1:C:45:LEU:O	1:C:46:SER:CB	2.68	0.41
1:D:99:ARG:HH12	1:D:530:GLN:HE21	1.68	0.41
1:E:229:LYS:HA	1:E:271:ILE:O	2.20	0.41
1:E:386:THR:HG21	1:E:389:LEU:HD21	2.01	0.41
1:F:45:LEU:O	1:F:46:SER:CB	2.68	0.41
1:F:179:MET:SD	1:F:184:TRP:CA	3.08	0.41
1:F:203:ASN:HA	1:F:204:PRO:HD3	1.74	0.41
1:F:326:GLY:O	1:F:329:LEU:HB2	2.19	0.41
1:F:420:VAL:HA	1:F:428:GLY:HA3	2.02	0.41
1:G:208:VAL:HB	1:G:211:TRP:CZ2	2.56	0.41
1:G:225:VAL:HG21	1:G:298:ILE:HD11	2.03	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:H:99:ARG:HH12	1:H:530:GLN:HE21	1.68	0.41
1:H:362:MET:HE2	1:H:369:TYR:CG	2.55	0.41
1:H:463:ILE:HA	1:H:496:VAL:O	2.21	0.41
1:H:557:PHE:CE2	1:I:563:LYS:HD3	2.55	0.41
1:I:95:MET:HE1	1:I:99:ARG:CZ	2.51	0.41
1:I:166:ASP:OD1	1:I:168:SER:CB	2.68	0.41
1:I:225:VAL:HG21	1:I:298:ILE:HD11	2.03	0.41
1:I:552:LEU:HD13	1:I:556:TYR:HE2	1.86	0.41
1:I:616:LEU:O	1:I:620:ALA:N	2.44	0.41
1:K:513:ARG:O	1:K:514:TYR:C	2.64	0.41
1:L:48:TYR:CZ	1:L:210:PRO:HG2	2.56	0.41
1:L:157:ILE:O	1:L:157:ILE:HG12	2.20	0.41
1:L:248:LYS:HB3	1:L:511:ARG:NH1	2.35	0.41
1:L:310:VAL:C	1:L:312:ASP:N	2.66	0.41
1:L:352:TRP:C	1:L:354:GLU:H	2.29	0.41
1:L:422:THR:HG22	1:L:425:VAL:CG2	2.51	0.41
1:L:513:ARG:O	1:L:514:TYR:C	2.64	0.41
1:A:352:TRP:C	1:A:354:GLU:H	2.29	0.41
1:A:463:ILE:HA	1:A:496:VAL:O	2.21	0.41
1:B:139:SER:HB3	1:B:455:THR:HG23	2.03	0.41
1:B:179:MET:SD	1:B:184:TRP:CA	3.08	0.41
1:B:652:GLU:O	1:B:653:ILE:C	2.63	0.41
1:C:448:VAL:HB	1:C:449:PHE:CD1	2.55	0.41
1:C:596:ALA:O	1:C:599:ALA:HB3	2.20	0.41
1:C:652:GLU:O	1:C:653:ILE:C	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:48:TYR:CZ	1:D:210:PRO:HG2	2.56	0.41
1:D:95:MET:HE1	1:D:99:ARG:CZ	2.51	0.41
1:D:362:MET:HE2	1:D:369:TYR:CG	2.55	0.41
1:E:92:ASP:O	1:E:93:VAL:C	2.61	0.41
1:E:208:VAL:HB	1:E:211:TRP:CZ2	2.56	0.41
1:E:248:LYS:H	1:E:248:LYS:CD	2.29	0.41
1:E:362:MET:HE2	1:E:369:TYR:CG	2.55	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:I:41:TRP:CZ3	1:I:44:TRP:O	2.74	0.41
1:I:208:VAL:HB	1:I:211:TRP:CZ2	2.56	0.41
1:I:362:MET:HE2	1:I:369:TYR:CG	2.55	0.41
1:J:65:ARG:O	1:J:69:SER:HB2	2.21	0.41
1:J:80:TYR:CZ	1:J:448:VAL:HG22	2.55	0.41
1:J:179:MET:SD	1:J:184:TRP:CA	3.08	0.41
1:J:652:GLU:O	1:J:653:ILE:C	2.63	0.41
1:K:277:TYR:CE1	1:K:292:LEU:HD12	2.56	0.41
1:K:352:TRP:C	1:K:354:GLU:H	2.29	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:L:295:GLY:HA2	1:L:453:LEU:CD2	2.51	0.41
1:A:352:TRP:CG	1:B:376:ARG:HB2	2.55	0.41
1:B:513:ARG:O	1:B:514:TYR:C	2.64	0.41
1:B:528:LYS:HE3	1:B:528:LYS:HB2	1.77	0.41
1:B:541:LYS:HB2	1:B:541:LYS:HE2	1.79	0.41
1:C:41:TRP:CZ3	1:C:44:TRP:O	2.74	0.41
1:C:248:LYS:HE2	1:C:513:ARG:HH12	1.85	0.41
1:C:420:VAL:HA	1:C:428:GLY:HA3	2.02	0.41
1:C:423:GLU:O	1:C:424:ALA:HB3	2.21	0.41
1:D:37:ARG:HA	1:D:37:ARG:HD2	1.70	0.41
1:D:80:TYR:CZ	1:D:448:VAL:HG22	2.55	0.41
1:D:208:VAL:HB	1:D:209:PHE:H	1.75	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:D:301:VAL:HA	1:D:302:PRO:HD3	1.67	0.41
1:D:352:TRP:C	1:D:354:GLU:H	2.29	0.41
1:D:420:VAL:HA	1:D:428:GLY:HA3	2.02	0.41
1:E:80:TYR:CZ	1:E:448:VAL:HG22	2.55	0.41
1:E:91:ALA:O	1:E:92:ASP:C	2.62	0.41
1:E:95:MET:HE1	1:E:99:ARG:CZ	2.51	0.41
1:E:99:ARG:HH12	1:E:530:GLN:HE21	1.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:236:GLN:HB2	1:E:265:LYS:CE	2.50	0.41
1:E:448:VAL:HB	1:E:449:PHE:CD1	2.55	0.41
1:E:586:THR:C	1:E:588:GLU:N	2.78	0.41
1:F:37:ARG:NH2	1:F:41:TRP:CZ3	2.89	0.41
1:F:95:MET:HE1	1:F:99:ARG:CZ	2.51	0.41
1:F:248:LYS:HB3	1:F:511:ARG:NH1	2.35	0.41
1:G:157:ILE:O	1:G:157:ILE:HG12	2.20	0.41
1:G:231:THR:O	1:G:249:ARG:CB	2.69	0.41
1:G:352:TRP:C	1:G:354:GLU:H	2.29	0.41
1:H:420:VAL:HA	1:H:428:GLY:HA3	2.02	0.41
1:I:248:LYS:HB3	1:I:511:ARG:NH1	2.36	0.41
1:I:438:LEU:HD11	1:J:108:LYS:CE	2.51	0.41
1:I:559:LEU:HD23	1:I:559:LEU:HA	1.85	0.41
1:J:34:PHE:C	1:J:37:ARG:HB2	2.45	0.41
1:J:420:VAL:HA	1:J:428:GLY:HA3	2.02	0.41
1:J:528:LYS:HE3	1:J:528:LYS:HB2	1.77	0.41
1:J:554:LEU:HD21	1:K:564:GLY:CA	2.36	0.41
1:K:91:ALA:O	1:K:92:ASP:C	2.62	0.41
1:K:295:GLY:HA2	1:K:453:LEU:CD2	2.51	0.41
1:K:335:SER:O	1:K:338:ALA:HB3	2.21	0.41
1:L:45:LEU:O	1:L:46:SER:CB	2.68	0.41
1:L:97:MET:O	1:L:98:TYR:C	2.61	0.41
1:L:118:GLN:O	1:L:122:GLY:HA2	2.21	0.41
1:L:420:VAL:HA	1:L:428:GLY:HA3	2.02	0.41
1:L:552:LEU:HD13	1:L:556:TYR:HE2	1.85	0.41
1:A:27:ARG:CG	1:B:212:LEU:HD13	2.42	0.41
1:A:34:PHE:C	1:A:37:ARG:HB2	2.45	0.41
1:A:236:GLN:HB2	1:A:265:LYS:CE	2.50	0.41
1:A:237:ASP:HA	1:A:238:PRO:HD2	1.83	0.41
1:A:306:GLU:CD	1:B:65:ARG:HE	2.28	0.41
1:B:41:TRP:CZ3	1:B:44:TRP:O	2.74	0.41
1:B:45:LEU:N	1:B:45:LEU:CD2	2.83	0.41
1:B:209:PHE:CE2	1:B:214:GLN:HG2	2.56	0.41
1:B:225:VAL:HG21	1:B:298:ILE:HD11	2.03	0.41
1:B:231:THR:O	1:B:249:ARG:CB	2.69	0.41
1:B:335:SER:O	1:B:338:ALA:HB3	2.21	0.41
1:B:352:TRP:C	1:B:354:GLU:H	2.29	0.41
1:C:35:PHE:O	1:C:37:ARG:N	2.54	0.41
1:C:65:ARG:O	1:C:69:SER:HB2	2.21	0.41
1:C:91:ALA:O	1:C:92:ASP:C	2.62	0.41
1:C:118:GLN:HE21	1:C:118:GLN:HB2	1.66	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:199:PRO:HB3	1:C:282:THR:CG2	2.46	0.41
1:C:263:PHE:O	1:C:264:ILE:O	2.39	0.41
1:C:325:ASP:OD2	1:D:56:GLN:HB2	2.20	0.41
1:C:346:LYS:HG3	1:D:367:ASP:OD1	2.21	0.41
1:C:362:MET:HE2	1:C:369:TYR:CG	2.55	0.41
1:C:434:THR:HA	1:C:437:GLN:NE2	2.36	0.41
1:C:528:LYS:HE3	1:C:528:LYS:HB2	1.77	0.41
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:D:198:ILE:HA	1:D:199:PRO:HD3	1.74	0.41
1:D:208:VAL:C	1:D:210:PRO:HD3	2.46	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: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:D:350:PHE:HB3	1:E:374:LEU:HD12	2.02	0.41
1:D:390:ALA:HB2	1:E:387:GLN:HB2	1.95	0.41
1:D:586:THR:C	1:D:588:GLU:N	2.78	0.41
1:E:246:TYR:CD2	1:E:510:ILE:HG12	2.56	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:E:322:LEU:HD13	1:E:322:LEU:HA	1.77	0.41
1:E:348:LYS:HB3	1:F:371:TYR:HA	2.03	0.41
1:E:352:TRP:C	1:E:354:GLU:H	2.29	0.41
1:E:423:GLU:O	1:E:424:ALA:HB3	2.21	0.41
1:F:22:SER:C	1:F:24:GLU:H	2.27	0.41
1:F:31:ASN:HD22	1:F:31:ASN:HA	1.65	0.41
1:F:41:TRP:CZ3	1:F:44:TRP:O	2.74	0.41
1:F:65:ARG:O	1:F:69:SER:HB2	2.21	0.41
1:F:231:THR:O	1:F:249:ARG:HB3	2.21	0.41
1:F:236:GLN:HB2	1:F:265:LYS:CE	2.50	0.41
1:F:344:THR:HA	1:F:345:PRO:HD3	1.90	0.41
1:F:595:GLU:C	1:F:597:GLN:N	2.78	0.41
1:G:45:LEU:O	1:G:46:SER:CB	2.68	0.41
1:G:118:GLN:O	1:G:122:GLY:HA2	2.21	0.41
1:G:139:SER:HB3	1:G:455:THR:HG23	2.03	0.41
1:G:229:LYS:HA	1:G:271:ILE:O	2.20	0.41
1:G:311:GLU:O	1:G:312:ASP:CB	2.66	0.41
1:G:463:ILE:HA	1:G:496:VAL:O	2.21	0.41
1:G:552:LEU:CD1	1:G:556:TYR:HE2	2.34	0.41
1:H:175:VAL:O	1:H:220:ALA:HB1	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:208:VAL:HB	1:H:211:TRP:CZ2	2.56	0.41
1:H:596:ALA:O	1:H:599:ALA:HB3	2.20	0.41
1:I:34:PHE:C	1:I:37:ARG:HB2	2.45	0.41
1:I:65:ARG:O	1:I:69:SER:HB2	2.21	0.41
1:I:97:MET:O	1:I:98:TYR:C	2.61	0.41
1:I:175:VAL:O	1:I:220:ALA:HB1	2.21	0.41
1:I:179:MET:SD	1:I:184:TRP:CA	3.08	0.41
1:I:208:VAL:HB	1:I:209:PHE:H	1.75	0.41
1:I:231:THR:O	1:I:249:ARG:CB	2.69	0.41
1:I:413:LYS:HE2	1:I:413:LYS:HB3	1.88	0.41
1:J:45:LEU:N	1:J:45:LEU:CD2	2.83	0.41
1:J:99:ARG:HH12	1:J:530:GLN:HE21	1.68	0.41
1:J:175:VAL:O	1:J:220:ALA:HB1	2.21	0.41
1:J:208:VAL:HB	1:J:211:TRP:CZ2	2.56	0.41
1:J:352:TRP:C	1:J:354:GLU:H	2.29	0.41
1:J:362:MET:HE2	1:J:369:TYR:CG	2.55	0.41
1:J:404:MET:CE	1:K:337:ASN:HB2	2.51	0.41
1:J:513:ARG:O	1:J:514:TYR:C	2.64	0.41
1:J:586:THR:C	1:J:588:GLU:N	2.78	0.41
1:K:48:TYR:CZ	1:K:210:PRO:HG2	2.56	0.41
1:K:122:GLY:O	1:K:305:GLY:N	2.47	0.41
1:K:157:ILE:O	1:K:157:ILE:HG12	2.20	0.41
1:K:248:LYS:HB3	1:K:511:ARG:NH1	2.35	0.41
1:K:309:PHE:HB2	1:L:150:HIS:ND1	2.34	0.41
1:L:34:PHE:C	1:L:37:ARG:HB2	2.45	0.41
1:L:45:LEU:N	1:L:45:LEU:CD2	2.83	0.41
1:L:95:MET:HE1	1:L:99:ARG:CZ	2.51	0.41
1:L:139:SER:HB3	1:L:455:THR:HG23	2.03	0.41
1:L:175:VAL:O	1:L:220:ALA:HB1	2.21	0.41
1:L:208:VAL:C	1:L:210:PRO:HD3	2.45	0.41
1:L:231:THR:O	1:L:249:ARG:CB	2.69	0.41
1:L:335:SER:O	1:L:338:ALA:HB3	2.21	0.41
1:L:423:GLU:O	1:L:424:ALA:HB3	2.21	0.41
1:L:463:ILE:HA	1:L:496:VAL:O	2.21	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:A:118:GLN:O	1:A:122:GLY:HA2	2.20	0.41
1:A:408:ALA:O	1:A:412:VAL:HG23	2.21	0.41
1:C:83:LYS:HE3	1:C:517:TYR:HB3	2.03	0.41
1:C:157:ILE:O	1:C:157:ILE:HG12	2.20	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:C:225:VAL:HG21	1:C:298:ILE:HD11	2.03	0.41
1:C:238:PRO:HG2	1:C:239:VAL:HG23	2.03	0.41
1:C:350:PHE:CE1	1:D:372:TYR:HB3	2.56	0.41
1:C:422:THR:HG22	1:C:425:VAL:CG2	2.51	0.41
1:D:175:VAL:O	1:D:220:ALA:HB1	2.21	0.41
1:D:229:LYS:HA	1:D:271:ILE:O	2.20	0.41
1:D:277:TYR:CE1	1:D:292:LEU:HD12	2.56	0.41
1:E:22:SER:C	1:E:24:GLU:H	2.27	0.41
1:E:65:ARG:O	1:E:69:SER:HB2	2.21	0.41
1:E:83:LYS:HE3	1:E:517:TYR:HB3	2.03	0.41
1:E:277:TYR:CE1	1:E:292:LEU:HD12	2.56	0.41
1:E:513:ARG:O	1:E:514:TYR:C	2.64	0.41
1:F:246:TYR:CD2	1:F:510:ILE:HG12	2.56	0.41
1:F:263:PHE:O	1:F:264:ILE:O	2.39	0.41
1:F:463:ILE:HA	1:F:496:VAL:O	2.21	0.41
1:G:8:LEU:HD23	1:G:8:LEU:HA	1.98	0.41
1:G:89:ASP:N	1:H:561:ASP:HB2	2.35	0.41
1:G:111:VAL:O	1:G:114:ALA:HB3	2.21	0.41
1:G:350:PHE:HE1	1:H:363:TYR:HE1	1.68	0.41
1:G:423:GLU:O	1:G:424:ALA:HB3	2.21	0.41
1:G:596:ALA:O	1:G:599:ALA:HB3	2.20	0.41
1:H:264:ILE:O	1:H:265:LYS:CD	2.68	0.41
1:H:352:TRP:C	1:H:354:GLU:H	2.29	0.41
1:H:542:THR:HA	1:H:543:PRO:HD3	1.89	0.41
1:H:642:GLN:O	1:H:646:ASN:CB	2.69	0.41
1:I:157:ILE:O	1:I:157:ILE:HG12	2.20	0.41
1:I:263:PHE:O	1:I:264:ILE:O	2.39	0.41
1:J:157:ILE:O	1:J:157:ILE:HG12	2.20	0.41
1:J:209:PHE:CE2	1:J:214:GLN:HG2	2.56	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:K:236:GLN:HB2	1:K:265:LYS:CE	2.50	0.41
1:L:122:GLY:O	1:L:305:GLY:N	2.47	0.41
1:L:231:THR:O	1:L:249:ARG:HB3	2.21	0.41
1:L:236:GLN:HB2	1:L:265:LYS:CE	2.50	0.41
1:L:448:VAL:HB	1:L:449:PHE:CD1	2.55	0.41
1:A:66:LYS:HZ3	1:A:420:VAL:HG11	1.85	0.40
1:A:95:MET:HE1	1:A:99:ARG:CZ	2.51	0.40
1:A:166:ASP:OD1	1:A:168:SER:CB	2.68	0.40
1:A:434:THR:HA	1:A:437:GLN:NE2	2.36	0.40
1:B:408:ALA:O	1:B:412:VAL:HG23	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:95:MET:HE1	1:C:99:ARG:CZ	2.51	0.40
1:C:166:ASP:OD1	1:C:168:SER:CB	2.68	0.40
1:C:231:THR:O	1:C:249:ARG:HB3	2.21	0.40
1:C:248:LYS:HB3	1:C:511:ARG:NH1	2.35	0.40
1:D:225:VAL:HG21	1:D:298:ILE:HD11	2.03	0.40
1:E:67:LEU:HG	1:E:67:LEU:H	1.68	0.40
1:E:209:PHE:CE2	1:E:214:GLN:HG2	2.56	0.40
1:E:231:THR:O	1:E:249:ARG:CB	2.69	0.40
1:E:408:ALA:O	1:E:412:VAL:HG23	2.21	0.40
1:E:411:ALA:CB	1:F:57:PHE:CD1	3.05	0.40
1:F:225:VAL:HG21	1:F:298:ILE:HD11	2.03	0.40
1:F:231:THR:O	1:F:249:ARG:CB	2.69	0.40
1:F:423:GLU:O	1:F:424:ALA:HB3	2.21	0.40
1:G:209:PHE:CE2	1:G:214:GLN:HG2	2.56	0.40
1:G:263:PHE:O	1:G:264:ILE:O	2.39	0.40
1:G:348:LYS:HB3	1:H:371:TYR:HA	2.03	0.40
1:G:420:VAL:HA	1:G:428:GLY:HA3	2.02	0.40
1:G:458:ARG:HH21	1:G:500:ALA:CB	2.33	0.40
1:H:95:MET:HE1	1:H:99:ARG:CZ	2.51	0.40
1:H:179:MET:SD	1:H:184:TRP:CA	3.08	0.40
1:H:322:LEU:HA	1:H:322:LEU:HD13	1.77	0.40
1:H:437:GLN:HA	1:H:440:MET:HB2	2.04	0.40
1:H:617:GLN:O	1:H:621:GLU:N	2.52	0.40
1:I:229:LYS:HA	1:I:271:ILE:O	2.20	0.40
1:J:37:ARG:NH2	1:J:41:TRP:CZ3	2.89	0.40
1:J:139:SER:HB3	1:J:455:THR:HG23	2.02	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:J:277:TYR:CE1	1:J:292:LEU:HD12	2.56	0.40
1:J:463:ILE:HA	1:J:496:VAL:O	2.21	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:K:175:VAL:O	1:K:220:ALA:HB1	2.21	0.40
1:K:208:VAL:HB	1:K:211:TRP:CZ2	2.56	0.40
1:K:225:VAL:HG21	1:K:298:ILE:HD11	2.03	0.40
1:K:420:VAL:HA	1:K:428:GLY:HA3	2.02	0.40
1:K:463:ILE:HA	1:K:496:VAL:O	2.21	0.40
1:K:552:LEU:HD13	1:K:556:TYR:HE2	1.86	0.40
1:A:139:SER:HB3	1:A:455:THR:HG23	2.03	0.40
1:A:295:GLY:HA2	1:A:453:LEU:CD2	2.51	0.40
1:A:423:GLU:O	1:A:424:ALA:HB3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:22:SER:C	1:B:24:GLU:H	2.27	0.40
1:B:37:ARG:C	1:B:39:SER:N	2.76	0.40
1:B:95:MET:HE1	1:B:99:ARG:CZ	2.51	0.40
1:B:175:VAL:O	1:B:220:ALA:HB1	2.21	0.40
1:B:329:LEU:HD13	1:B:329:LEU:HA	1.92	0.40
1:C:171:ARG:HH21	1:D:182:ASN:HD22	1.68	0.40
1:C:231:THR:O	1:C:249:ARG:CB	2.69	0.40
1:C:277:TYR:CE1	1:C:292:LEU:HD12	2.56	0.40
1:C:437:GLN:HA	1:C:440:MET:HB2	2.04	0.40
1:D:15:PHE:CE1	1:D:283:CYS:HA	2.57	0.40
1:D:83:LYS:HE3	1:D:517:TYR:HB3	2.04	0.40
1:D:246:TYR:CD2	1:D:510:ILE:HG12	2.56	0.40
1:D:335:SER:O	1:D:338:ALA:HB3	2.21	0.40
1:D:370:PRO:HB2	1:D:371:TYR:CE1	2.57	0.40
1:D:642:GLN:O	1:D:646:ASN:CB	2.70	0.40
1:E:310:VAL:HB	1:E:311:GLU:H	1.75	0.40
1:E:552:LEU:CD1	1:E:556:TYR:HE2	2.34	0.40
1:E:595:GLU:C	1:E:597:GLN:N	2.78	0.40
1:F:83:LYS:HE3	1:F:517:TYR:HB3	2.04	0.40
1:F:248:LYS:CG	1:F:511:ARG:NH1	2.83	0.40
1:F:277:TYR:CE1	1:F:292:LEU:HD12	2.56	0.40
1:F:335:SER:O	1:F:338:ALA:HB3	2.21	0.40
1:G:15:PHE:CE1	1:G:283:CYS:HA	2.57	0.40
1:G:22:SER:C	1:G:24:GLU:H	2.27	0.40
1:G:37:ARG:NH2	1:G:41:TRP:CZ3	2.89	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:G:595:GLU:C	1:G:597:GLN:N	2.78	0.40
1:G:617:GLN:O	1:G:621:GLU:N	2.52	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:H:48:TYR:CZ	1:H:210:PRO:HG2	2.56	0.40
1:I:246:TYR:CD2	1:I:510:ILE:HG12	2.56	0.40
1:I:295:GLY:HA2	1:I:453:LEU:CD2	2.51	0.40
1:I:383:ASP:C	1:I:385:PRO:CD	2.95	0.40
1:I:408:ALA:O	1:I:412:VAL:HG23	2.21	0.40
1:I:423:GLU:O	1:I:424:ALA:HB3	2.21	0.40
1:I:552:LEU:CD1	1:I:556:TYR:HE2	2.34	0.40
1:J:31:ASN:HB3	1:J:35:PHE:CZ	2.57	0.40
1:J:83:LYS:HE3	1:J:517:TYR:HB3	2.03	0.40
1:J:102:MET:HE2	1:J:144:ILE:HD11	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:229:LYS:HA	1:J:271:ILE:O	2.20	0.40
1:J:238:PRO:HG2	1:J:239:VAL:HG23	2.04	0.40
1:J:246:TYR:CD2	1:J:510:ILE:HG12	2.56	0.40
1:J:335:SER:O	1:J:338:ALA:HB3	2.21	0.40
1:J:437:GLN:HA	1:J:440:MET:HB2	2.04	0.40
1:L:246:TYR:CD2	1:L:510:ILE:HG12	2.56	0.40
1:L:434:THR:HA	1:L:437:GLN:NE2	2.36	0.40
1:L:586:THR:C	1:L:588:GLU:N	2.78	0.40
1:A:37:ARG:C	1:A:39:SER:N	2.76	0.40
1:A:65:ARG:O	1:A:69:SER:HB2	2.21	0.40
1:A:171:ARG:HH21	1:B:182:ASN:HD22	1.69	0.40
1:A:383:ASP:C	1:A:385:PRO:CD	2.95	0.40
1:B:35:PHE:O	1:B:37:ARG:N	2.54	0.40
1:B:111:VAL:O	1:B:114:ALA:HB3	2.21	0.40
1:B:263:PHE:O	1:B:264:ILE:O	2.39	0.40
1:B:352:TRP:CD1	1:C:374:LEU:O	2.73	0.40
1:C:15:PHE:CE1	1:C:283:CYS:HA	2.57	0.40
1:C:27:ARG:CZ	1:D:211:TRP:CB	2.93	0.40
1:C:118:GLN:O	1:C:122:GLY:HA2	2.21	0.40
1:C:208:VAL:HB	1:C:211:TRP:CZ2	2.56	0.40
1:C:208:VAL:C	1:C:210:PRO:HD3	2.46	0.40
1:D:65:ARG:O	1:D:69:SER:HB2	2.21	0.40
1:D:328:ARG:HA	1:D:331:ASN:ND2	2.36	0.40
1:E:295:GLY:HA2	1:E:453:LEU:CD2	2.51	0.40
1:F:171:ARG:HH21	1:G:182:ASN:ND2	2.19	0.40
1:F:209:PHE:CE2	1:F:214:GLN:HG2	2.56	0.40
1:F:248:LYS:HE2	1:F:513:ARG:HH12	1.85	0.40
1:F:370:PRO:HB2	1:F:371:TYR:CE1	2.57	0.40
1:F:383:ASP:C	1:F:385:PRO:CD	2.95	0.40
1:F:448:VAL:HB	1:F:449:PHE:CD1	2.55	0.40
1:G:35:PHE:O	1:G:37:ARG:N	2.54	0.40
1:G:48:TYR:CZ	1:G:210:PRO:HG2	2.56	0.40
1:G:175:VAL:O	1:G:220:ALA:HB1	2.21	0.40
1:G:362:MET:HE2	1:G:369:TYR:CG	2.55	0.40
1:G:408:ALA:O	1:G:412:VAL:HG23	2.21	0.40
1:H:37:ARG:C	1:H:39:SER:N	2.76	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:H:348:LYS:HA	1:H:349:PRO:HD3	1.87	0.40
1:H:404:MET:SD	1:I:337:ASN:CB	3.09	0.40
1:H:408:ALA:O	1:H:412:VAL:HG23	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:423:GLU:O	1:H:424:ALA:HB3	2.21	0.40
1:H:552:LEU:HD13	1:H:556:TYR:HE2	1.86	0.40
1:I:231:THR:O	1:I:249:ARG:HB3	2.21	0.40
1:I:458:ARG:HH21	1:I:500:ALA:CB	2.33	0.40
1:J:118:GLN:O	1:J:122:GLY:HA2	2.21	0.40
1:J:422:THR:HG22	1:J:425:VAL:CG2	2.51	0.40
1:J:434:THR:HA	1:J:437:GLN:NE2	2.36	0.40
1:K:147:GLU:HA	1:K:148:PRO:HD3	1.83	0.40
1:K:209:PHE:CE2	1:K:214:GLN:HG2	2.56	0.40
1:K:370:PRO:HB2	1:K:371:TYR:CE1	2.57	0.40
1:L:158:TRP:HB3	1:L:173:CYS:H	1.87	0.40
1:L:186:ASP:O	1:L:190:LYS:HG2	2.22	0.40
1:L:595:GLU:C	1:L:597:GLN:N	2.78	0.40
1:A:37:ARG:NH2	1:A:41:TRP:CZ3	2.89	0.40
1:A:175:VAL:O	1:A:220:ALA:HB1	2.21	0.40
1:A:209:PHE:CE2	1:A:214:GLN:HG2	2.56	0.40
1:A:263:PHE:O	1:A:264:ILE:O	2.39	0.40
1:A:552:LEU:CD1	1:A:556:TYR:HE2	2.34	0.40
1:A:642:GLN:O	1:A:646:ASN:CB	2.69	0.40
1:B:370:PRO:HB2	1:B:371:TYR:CE1	2.57	0.40
1:C:102:MET:HE2	1:C:144:ILE:HD11	2.04	0.40
1:C:186:ASP:O	1:C:190:LYS:HG2	2.22	0.40
1:C:352:TRP:C	1:C:354:GLU:H	2.29	0.40
1:C:408:ALA:O	1:C:412:VAL:HG23	2.21	0.40
1:C:586:THR:C	1:C:588:GLU:N	2.78	0.40
1:D:37:ARG:NH2	1:D:41:TRP:CZ3	2.89	0.40
1:D:82:PRO:HB2	1:D:83:LYS:H	1.63	0.40
1:D:102:MET:HE2	1:D:144:ILE:HD11	2.04	0.40
1:D:158:TRP:HB3	1:D:173:CYS:H	1.87	0.40
1:D:541:LYS:HB2	1:D:541:LYS:HE2	1.79	0.40
1:E:37:ARG:C	1:E:39:SER:N	2.76	0.40
1:E:48:TYR:CZ	1:E:210:PRO:HG2	2.56	0.40
1:E:413:LYS:HE2	1:E:413:LYS:HB3	1.88	0.40
1:F:208:VAL:HB	1:F:211:TRP:CZ2	2.56	0.40
1:F:404:MET:SD	1:G:337:ASN:CB	3.09	0.40
1:F:552:LEU:HD13	1:F:556:TYR:HE2	1.86	0.40
1:F:652:GLU:O	1:F:653:ILE:C	2.63	0.40
1:G:335:SER:O	1:G:338:ALA:HB3	2.21	0.40
1:G:383:ASP:C	1:G:385:PRO:CD	2.95	0.40
1:G:434:THR:HA	1:G:437:GLN:NE2	2.36	0.40
1:G:552:LEU:HD13	1:G:556:TYR:HE2	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:102:MET:HE2	1:H:144:ILE:HD11	2.04	0.40
1:H:335:SER:O	1:H:338:ALA:HB3	2.21	0.40
1:I:35:PHE:O	1:I:37:ARG:N	2.54	0.40
1:I:158:TRP:HB3	1:I:173:CYS:H	1.87	0.40
1:I:209:PHE:CE2	1:I:214:GLN:HG2	2.56	0.40
1:I:370:PRO:HB2	1:I:371:TYR:CE1	2.57	0.40
1:I:420:VAL:HA	1:I:428:GLY:HA3	2.02	0.40
1:I:434:THR:HA	1:I:437:GLN:NE2	2.36	0.40
1:I:595:GLU:C	1:I:597:GLN:N	2.78	0.40
1:I:647:ALA:O	1:I:648:ALA:C	2.65	0.40
1:J:15:PHE:CE1	1:J:283:CYS:HA	2.57	0.40
1:J:41:TRP:CZ3	1:J:44:TRP:O	2.74	0.40
1:J:350:PHE:HZ	1:J:392:TYR:HD2	1.70	0.40
1:J:595:GLU:C	1:J:597:GLN:N	2.78	0.40
1:K:95:MET:HE1	1:K:99:ARG:CZ	2.51	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:L:102:MET:HE2	1:L:144:ILE:HD11	2.04	0.40
1:L:166:ASP:OD1	1:L:168:SER:CB	2.68	0.40
1:L:652:GLU:O	1:L:653:ILE:C	2.63	0.40
1:A:208:VAL:HB	1:A:211:TRP:CZ2	2.56	0.40
1:A:231:THR:O	1:A:249:ARG:CB	2.69	0.40
1:A:586:THR:C	1:A:588:GLU:N	2.78	0.40
1:B:295:GLY:HA2	1:B:453:LEU:CD2	2.51	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:B:552:LEU:CD1	1:B:556:TYR:HE2	2.34	0.40
1:D:248:LYS:CG	1:D:511:ARG:NH1	2.83	0.40
1:D:408:ALA:O	1:D:412:VAL:HG23	2.21	0.40
1:E:92:ASP:OD2	1:E:92:ASP:N	2.55	0.40
1:E:230:GLU:HG3	1:E:231:THR:H	1.84	0.40
1:F:48:TYR:CZ	1:F:210:PRO:HG2	2.56	0.40
1:F:78:VAL:CG2	1:F:444:LEU:HD21	2.52	0.40
1:G:65:ARG:O	1:G:69:SER:HB2	2.21	0.40
1:G:99:ARG:HH12	1:G:530:GLN:HE21	1.68	0.40
1:G:208:VAL:C	1:G:210:PRO:HD3	2.46	0.40
1:G:390:ALA:HB1	1:H:387:GLN:HB2	2.04	0.40
1:G:422:THR:HG22	1:G:425:VAL:CG2	2.51	0.40
1:G:429:GLN:N	1:G:429:GLN:OE1	2.55	0.40
1:G:437:GLN:HA	1:G:440:MET:HB2	2.04	0.40
1:H:231:THR:O	1:H:249:ARG:CB	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:383:ASP:C	1:H:385:PRO:CD	2.95	0.40
1:H:552:LEU:CD1	1:H:556:TYR:HE2	2.34	0.40
1:I:31:ASN:HB3	1:I:35:PHE:CZ	2.57	0.40
1:I:48:TYR:CZ	1:I:210:PRO:HG2	2.56	0.40
1:I:238:PRO:HG2	1:I:239:VAL:HG23	2.04	0.40
1:I:335:SER:O	1:I:338:ALA:HB3	2.21	0.40
1:I:369:TYR:HA	1:I:370:PRO:HD3	1.75	0.40
1:I:429:GLN:N	1:I:429:GLN:OE1	2.55	0.40
1:J:186:ASP:O	1:J:190:LYS:HG2	2.22	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:J:642:GLN:O	1:J:646:ASN:CB	2.70	0.40
1:K:31:ASN:HB3	1:K:35:PHE:CZ	2.57	0.40
1:K:186:ASP:O	1:K:190:LYS:HG2	2.22	0.40
1:K:383:ASP:C	1:K:385:PRO:CD	2.95	0.40
1:K:422:THR:HG22	1:K:425:VAL:CG2	2.51	0.40
1:K:550:GLN:CD	1:K:550:GLN:N	2.80	0.40
1:L:248:LYS:CE	1:L:513:ARG:HH12	2.35	0.40
1:L:263:PHE:O	1:L:264:ILE:O	2.39	0.40
1:L:437:GLN:HA	1:L:440:MET:HB2	2.04	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%)	0	9
1	B	688/725 (95%)	507 (74%)	122 (18%)	59 (9%)	0	9
1	C	688/725 (95%)	508 (74%)	121 (18%)	59 (9%)	0	9
1	D	688/725 (95%)	506 (74%)	123 (18%)	59 (9%)	0	9
1	E	688/725 (95%)	507 (74%)	122 (18%)	59 (9%)	0	9
1	F	688/725 (95%)	507 (74%)	122 (18%)	59 (9%)	0	9
1	G	688/725 (95%)	507 (74%)	122 (18%)	59 (9%)	0	9
1	H	688/725 (95%)	506 (74%)	123 (18%)	59 (9%)	0	9
1	I	688/725 (95%)	507 (74%)	122 (18%)	59 (9%)	0	9
1	J	688/725 (95%)	507 (74%)	122 (18%)	59 (9%)	0	9
1	K	688/725 (95%)	508 (74%)	121 (18%)	59 (9%)	0	9
1	L	688/725 (95%)	507 (74%)	122 (18%)	59 (9%)	0	9
All	All	8256/8700 (95%)	6084 (74%)	1464 (18%)	708 (9%)	0	9

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

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Mol	Chain	Res	Type
1	B	41	TRP
1	B	82	PRO
1	B	208	VAL
1	B	256	ASP
1	B	263	PHE
1	B	294	ALA
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

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Mol	Chain	Res	Type
1	E	380	ASN
1	E	504	LYS
1	E	561	ASP
1	E	586	THR
1	E	588	GLU
1	E	724	PRO
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

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Mol	Chain	Res	Type
1	I	41	TRP
1	I	82	PRO
1	I	208	VAL
1	I	256	ASP
1	I	263	PHE
1	I	294	ALA
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

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Mol	Chain	Res	Type
1	L	380	ASN
1	L	504	LYS
1	L	561	ASP
1	L	586	THR
1	L	588	GLU
1	L	724	PRO
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

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Mol	Chain	Res	Type
1	C	264	ILE
1	C	267	ALA
1	C	274	ARG
1	C	295	GLY
1	C	387	GLN
1	C	388	PRO
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

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Mol	Chain	Res	Type
1	E	693	GLY
1	E	700	GLN
1	F	50	THR
1	F	159	ASP
1	F	233	PHE
1	F	244	VAL
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

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Mol	Chain	Res	Type
1	H	387	GLN
1	H	388	PRO
1	H	459	ARG
1	H	498	ASP
1	H	514	TYR
1	H	595	GLU
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

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Mol	Chain	Res	Type
1	K	233	PHE
1	K	244	VAL
1	K	264	ILE
1	K	267	ALA
1	K	274	ARG
1	K	295	GLY
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

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Mol	Chain	Res	Type
1	B	216	THR
1	B	253	ASP
1	B	262	GLY
1	B	330	ARG
1	B	591	GLN
1	B	594	VAL
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

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Mol	Chain	Res	Type
1	F	262	GLY
1	F	330	ARG
1	F	591	GLN
1	F	594	VAL
1	F	701	ARG
1	F	705	ALA
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

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Mol	Chain	Res	Type
1	J	591	GLN
1	J	594	VAL
1	J	701	ARG
1	J	705	ALA
1	K	93	VAL
1	K	205	ASN
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

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Mol	Chain	Res	Type
1	C	378	ASP
1	C	381	SER
1	C	668	PHE
1	D	36	SER
1	D	161	ASN
1	D	198	ILE
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

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Mol	Chain	Res	Type
1	I	378	ASP
1	I	381	SER
1	I	668	PHE
1	J	36	SER
1	J	161	ASN
1	J	198	ILE
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

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Mol	Chain	Res	Type
1	C	209	PHE
1	C	311	GLU
1	C	397	VAL
1	C	462	GLU
1	C	583	LYS
1	C	604	GLN
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

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Mol	Chain	Res	Type
1	H	397	VAL
1	H	462	GLU
1	H	583	LYS
1	H	604	GLN
1	I	76	ILE
1	I	203	ASN
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

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Mol	Chain	Res	Type
1	C	192	ASP
1	C	383	ASP
1	C	428	GLY
1	D	192	ASP
1	D	383	ASP
1	D	428	GLY
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

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Mol	Chain	Res	Type
1	A	522	PRO
1	B	522	PRO
1	C	522	PRO
1	D	522	PRO
1	E	522	PRO
1	G	522	PRO
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%)	406 (86%)	68 (14%)	3	13
1	B	474/630 (75%)	406 (86%)	68 (14%)	3	13
1	C	474/630 (75%)	407 (86%)	67 (14%)	3	13
1	D	474/630 (75%)	406 (86%)	68 (14%)	3	13
1	E	474/630 (75%)	407 (86%)	67 (14%)	3	13

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	F	474/630 (75%)	407 (86%)	67 (14%)	3	13
1	G	474/630 (75%)	407 (86%)	67 (14%)	3	13
1	H	474/630 (75%)	406 (86%)	68 (14%)	3	13
1	I	474/630 (75%)	406 (86%)	68 (14%)	3	13
1	J	474/630 (75%)	406 (86%)	68 (14%)	3	13
1	K	474/630 (75%)	406 (86%)	68 (14%)	3	13
1	L	474/630 (75%)	406 (86%)	68 (14%)	3	13
All	All	5688/7560 (75%)	4876 (86%)	812 (14%)	3	13

All (812) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	11	ILE
1	A	14	ARG
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	133	GLU
1	A	144	ILE
1	A	156	VAL
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	202	GLN
1	A	208	VAL
1	A	209	PHE

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Mol	Chain	Res	Type
1	A	218	GLN
1	A	229	LYS
1	A	234	ILE
1	A	246	TYR
1	A	248	LYS
1	A	265	LYS
1	A	266	ILE
1	A	286	VAL
1	A	293	ILE
1	A	301	VAL
1	A	310	VAL
1	A	315	VAL
1	A	325	ASP
1	A	327	GLN
1	A	334	MET
1	A	343	ARG
1	A	356	ILE
1	A	359	PHE
1	A	360	GLU
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	430	VAL
1	A	433	ASP
1	A	444	LEU
1	A	511	ARG
1	A	513	ARG
1	A	518	THR
1	A	520	VAL
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	565	VAL
1	A	588	GLU
1	B	11	ILE
1	B	14	ARG

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Mol	Chain	Res	Type
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
1	B	101	ASP
1	B	118	GLN
1	B	123	VAL
1	B	133	GLU
1	B	144	ILE
1	B	156	VAL
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	202	GLN
1	B	208	VAL
1	B	209	PHE
1	B	218	GLN
1	B	229	LYS
1	B	234	ILE
1	B	246	TYR
1	B	248	LYS
1	B	265	LYS
1	B	266	ILE
1	B	286	VAL
1	B	293	ILE
1	B	301	VAL
1	B	310	VAL
1	B	315	VAL
1	B	325	ASP
1	B	327	GLN
1	B	334	MET
1	B	343	ARG

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Mol	Chain	Res	Type
1	B	356	ILE
1	B	359	PHE
1	B	360	GLU
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	430	VAL
1	B	433	ASP
1	B	444	LEU
1	B	511	ARG
1	B	513	ARG
1	B	518	THR
1	B	520	VAL
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	565	VAL
1	B	588	GLU
1	C	11	ILE
1	C	14	ARG
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	133	GLU
1	C	144	ILE
1	C	156	VAL

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Mol	Chain	Res	Type
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	202	GLN
1	C	208	VAL
1	C	209	PHE
1	C	218	GLN
1	C	229	LYS
1	C	234	ILE
1	C	246	TYR
1	C	248	LYS
1	C	265	LYS
1	C	266	ILE
1	C	286	VAL
1	C	293	ILE
1	C	301	VAL
1	C	310	VAL
1	C	315	VAL
1	C	325	ASP
1	C	327	GLN
1	C	334	MET
1	C	343	ARG
1	C	356	ILE
1	C	360	GLU
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	430	VAL
1	C	433	ASP
1	C	444	LEU
1	C	511	ARG
1	C	513	ARG
1	C	518	THR
1	C	520	VAL
1	C	529	GLN

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Mol	Chain	Res	Type
1	C	541	LYS
1	C	546	THR
1	C	552	LEU
1	C	555	GLN
1	C	558	THR
1	C	565	VAL
1	C	588	GLU
1	D	11	ILE
1	D	14	ARG
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
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	133	GLU
1	D	144	ILE
1	D	156	VAL
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	202	GLN
1	D	208	VAL
1	D	209	PHE
1	D	218	GLN
1	D	229	LYS
1	D	234	ILE
1	D	246	TYR
1	D	248	LYS
1	D	265	LYS
1	D	266	ILE

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Mol	Chain	Res	Type
1	D	286	VAL
1	D	293	ILE
1	D	301	VAL
1	D	310	VAL
1	D	315	VAL
1	D	325	ASP
1	D	327	GLN
1	D	334	MET
1	D	343	ARG
1	D	356	ILE
1	D	359	PHE
1	D	360	GLU
1	D	384	LEU
1	D	387	GLN
1	D	389	LEU
1	D	405	LEU
1	D	421	ASP
1	D	422	THR
1	D	430	VAL
1	D	433	ASP
1	D	444	LEU
1	D	511	ARG
1	D	513	ARG
1	D	518	THR
1	D	520	VAL
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	565	VAL
1	D	588	GLU
1	E	11	ILE
1	E	14	ARG
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

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Mol	Chain	Res	Type
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	133	GLU
1	E	144	ILE
1	E	156	VAL
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	202	GLN
1	E	208	VAL
1	E	209	PHE
1	E	218	GLN
1	E	229	LYS
1	E	234	ILE
1	E	246	TYR
1	E	248	LYS
1	E	265	LYS
1	E	266	ILE
1	E	286	VAL
1	E	293	ILE
1	E	301	VAL
1	E	310	VAL
1	E	315	VAL
1	E	325	ASP
1	E	327	GLN
1	E	334	MET
1	E	343	ARG
1	E	356	ILE
1	E	360	GLU
1	E	384	LEU
1	E	387	GLN
1	E	389	LEU
1	E	405	LEU
1	E	421	ASP

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Mol	Chain	Res	Type
1	E	422	THR
1	E	430	VAL
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	565	VAL
1	E	588	GLU
1	F	11	ILE
1	F	14	ARG
1	F	24	GLU
1	F	30	LYS
1	F	31	ASN
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	133	GLU
1	F	144	ILE
1	F	156	VAL
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	202	GLN

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Mol	Chain	Res	Type
1	F	208	VAL
1	F	209	PHE
1	F	218	GLN
1	F	229	LYS
1	F	234	ILE
1	F	246	TYR
1	F	248	LYS
1	F	265	LYS
1	F	266	ILE
1	F	286	VAL
1	F	293	ILE
1	F	301	VAL
1	F	310	VAL
1	F	315	VAL
1	F	325	ASP
1	F	327	GLN
1	F	334	MET
1	F	343	ARG
1	F	356	ILE
1	F	360	GLU
1	F	384	LEU
1	F	387	GLN
1	F	389	LEU
1	F	405	LEU
1	F	421	ASP
1	F	422	THR
1	F	430	VAL
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	565	VAL
1	F	588	GLU
1	G	11	ILE

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Mol	Chain	Res	Type
1	G	14	ARG
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	133	GLU
1	G	144	ILE
1	G	156	VAL
1	G	157	ILE
1	G	158	TRP
1	G	161	ASN
1	G	164	LEU
1	G	168	SER
1	G	174	THR
1	G	190	LYS
1	G	202	GLN
1	G	208	VAL
1	G	209	PHE
1	G	218	GLN
1	G	229	LYS
1	G	234	ILE
1	G	246	TYR
1	G	248	LYS
1	G	265	LYS
1	G	266	ILE
1	G	286	VAL
1	G	293	ILE
1	G	301	VAL
1	G	310	VAL
1	G	315	VAL
1	G	325	ASP
1	G	327	GLN
1	G	334	MET

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Mol	Chain	Res	Type
1	G	343	ARG
1	G	356	ILE
1	G	360	GLU
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	430	VAL
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	565	VAL
1	G	588	GLU
1	H	11	ILE
1	H	14	ARG
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	133	GLU
1	H	144	ILE
1	H	156	VAL

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Mol	Chain	Res	Type
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	202	GLN
1	H	208	VAL
1	H	209	PHE
1	H	218	GLN
1	H	229	LYS
1	H	234	ILE
1	H	246	TYR
1	H	248	LYS
1	H	265	LYS
1	H	266	ILE
1	H	286	VAL
1	H	293	ILE
1	H	301	VAL
1	H	310	VAL
1	H	315	VAL
1	H	325	ASP
1	H	327	GLN
1	H	334	MET
1	H	343	ARG
1	H	356	ILE
1	H	359	PHE
1	H	360	GLU
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	430	VAL
1	H	433	ASP
1	H	444	LEU
1	H	511	ARG
1	H	513	ARG
1	H	518	THR
1	H	520	VAL

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Mol	Chain	Res	Type
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	565	VAL
1	H	588	GLU
1	I	11	ILE
1	I	14	ARG
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	133	GLU
1	I	144	ILE
1	I	156	VAL
1	I	157	ILE
1	I	158	TRP
1	I	161	ASN
1	I	164	LEU
1	I	168	SER
1	I	174	THR
1	I	190	LYS
1	I	202	GLN
1	I	208	VAL
1	I	209	PHE
1	I	218	GLN
1	I	229	LYS
1	I	234	ILE
1	I	246	TYR
1	I	248	LYS
1	I	265	LYS

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Mol	Chain	Res	Type
1	I	266	ILE
1	I	286	VAL
1	I	293	ILE
1	I	301	VAL
1	I	310	VAL
1	I	315	VAL
1	I	325	ASP
1	I	327	GLN
1	I	334	MET
1	I	343	ARG
1	I	356	ILE
1	I	359	PHE
1	I	360	GLU
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	430	VAL
1	I	433	ASP
1	I	444	LEU
1	I	511	ARG
1	I	513	ARG
1	I	518	THR
1	I	520	VAL
1	I	529	GLN
1	I	541	LYS
1	I	546	THR
1	I	552	LEU
1	I	555	GLN
1	I	558	THR
1	I	565	VAL
1	I	588	GLU
1	J	11	ILE
1	J	14	ARG
1	J	24	GLU
1	J	30	LYS
1	J	31	ASN
1	J	33	LEU
1	J	37	ARG
1	J	45	LEU

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Mol	Chain	Res	Type
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	133	GLU
1	J	144	ILE
1	J	156	VAL
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	202	GLN
1	J	208	VAL
1	J	209	PHE
1	J	218	GLN
1	J	229	LYS
1	J	234	ILE
1	J	246	TYR
1	J	248	LYS
1	J	265	LYS
1	J	266	ILE
1	J	286	VAL
1	J	293	ILE
1	J	301	VAL
1	J	310	VAL
1	J	315	VAL
1	J	325	ASP
1	J	327	GLN
1	J	334	MET
1	J	343	ARG
1	J	356	ILE
1	J	359	PHE
1	J	360	GLU
1	J	384	LEU
1	J	387	GLN
1	J	389	LEU

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Mol	Chain	Res	Type
1	J	405	LEU
1	J	421	ASP
1	J	422	THR
1	J	430	VAL
1	J	433	ASP
1	J	444	LEU
1	J	511	ARG
1	J	513	ARG
1	J	518	THR
1	J	520	VAL
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	565	VAL
1	J	588	GLU
1	K	11	ILE
1	K	14	ARG
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	133	GLU
1	K	144	ILE
1	K	156	VAL
1	K	157	ILE
1	K	158	TRP
1	K	161	ASN
1	K	164	LEU
1	K	168	SER
1	K	174	THR

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Mol	Chain	Res	Type
1	K	190	LYS
1	K	202	GLN
1	K	208	VAL
1	K	209	PHE
1	K	218	GLN
1	K	229	LYS
1	K	234	ILE
1	K	246	TYR
1	K	248	LYS
1	K	265	LYS
1	K	266	ILE
1	K	286	VAL
1	K	293	ILE
1	K	301	VAL
1	K	310	VAL
1	K	315	VAL
1	K	325	ASP
1	K	327	GLN
1	K	334	MET
1	K	343	ARG
1	K	356	ILE
1	K	359	PHE
1	K	360	GLU
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	430	VAL
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
1	K	552	LEU
1	K	555	GLN
1	K	558	THR

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Mol	Chain	Res	Type
1	K	565	VAL
1	K	588	GLU
1	L	11	ILE
1	L	14	ARG
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	133	GLU
1	L	144	ILE
1	L	156	VAL
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	202	GLN
1	L	208	VAL
1	L	209	PHE
1	L	218	GLN
1	L	229	LYS
1	L	234	ILE
1	L	246	TYR
1	L	248	LYS
1	L	265	LYS
1	L	266	ILE
1	L	286	VAL
1	L	293	ILE
1	L	301	VAL
1	L	310	VAL
1	L	315	VAL

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Mol	Chain	Res	Type
1	L	325	ASP
1	L	327	GLN
1	L	334	MET
1	L	343	ARG
1	L	356	ILE
1	L	359	PHE
1	L	360	GLU
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	430	VAL
1	L	433	ASP
1	L	444	LEU
1	L	511	ARG
1	L	513	ARG
1	L	518	THR
1	L	520	VAL
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	565	VAL
1	L	588	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (302) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	31	ASN
1	A	56	GLN
1	A	73	GLN
1	A	74	ASN
1	A	118	GLN
1	A	135	GLN
1	A	161	ASN
1	A	177	HIS
1	A	202	GLN
1	A	214	GLN

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Mol	Chain	Res	Type
1	A	218	GLN
1	A	236	GLN
1	A	291	GLN
1	A	297	HIS
1	A	327	GLN
1	A	331	ASN
1	A	337	ASN
1	A	361	HIS
1	A	366	ASN
1	A	375	ASN
1	A	439	ASN
1	A	450	GLN
1	A	525	GLN
1	A	530	GLN
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	155	HIS
1	B	161	ASN
1	B	177	HIS
1	B	182	ASN
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	375	ASN
1	B	439	ASN
1	B	450	GLN
1	B	529	GLN
1	B	530	GLN
1	B	555	GLN
1	C	31	ASN
1	C	56	GLN

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Mol	Chain	Res	Type
1	C	73	GLN
1	C	74	ASN
1	C	118	GLN
1	C	135	GLN
1	C	161	ASN
1	C	177	HIS
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	375	ASN
1	C	439	ASN
1	C	450	GLN
1	C	529	GLN
1	C	530	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	177	HIS
1	D	182	ASN
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	375	ASN

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Mol	Chain	Res	Type
1	D	439	ASN
1	D	450	GLN
1	D	529	GLN
1	D	530	GLN
1	D	573	ASN
1	E	31	ASN
1	E	40	GLN
1	E	56	GLN
1	E	73	GLN
1	E	118	GLN
1	E	135	GLN
1	E	161	ASN
1	E	177	HIS
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	375	ASN
1	E	439	ASN
1	E	450	GLN
1	E	525	GLN
1	E	530	GLN
1	E	555	GLN
1	F	31	ASN
1	F	40	GLN
1	F	56	GLN
1	F	73	GLN
1	F	118	GLN
1	F	135	GLN
1	F	161	ASN
1	F	177	HIS
1	F	182	ASN
1	F	205	ASN
1	F	214	GLN

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Mol	Chain	Res	Type
1	F	218	GLN
1	F	236	GLN
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	375	ASN
1	F	439	ASN
1	F	450	GLN
1	F	529	GLN
1	F	530	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	177	HIS
1	G	182	ASN
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	361	HIS
1	G	366	ASN
1	G	375	ASN
1	G	439	ASN
1	G	450	GLN
1	G	529	GLN
1	G	530	GLN
1	H	31	ASN
1	H	56	GLN
1	H	73	GLN
1	H	118	GLN
1	H	135	GLN

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Mol	Chain	Res	Type
1	H	161	ASN
1	H	177	HIS
1	H	182	ASN
1	H	202	GLN
1	H	205	ASN
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	361	HIS
1	H	366	ASN
1	H	375	ASN
1	H	439	ASN
1	H	450	GLN
1	H	529	GLN
1	H	530	GLN
1	H	555	GLN
1	I	31	ASN
1	I	47	GLN
1	I	56	GLN
1	I	73	GLN
1	I	118	GLN
1	I	135	GLN
1	I	161	ASN
1	I	177	HIS
1	I	182	ASN
1	I	202	GLN
1	I	205	ASN
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

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Mol	Chain	Res	Type
1	I	375	ASN
1	I	439	ASN
1	I	450	GLN
1	I	529	GLN
1	I	530	GLN
1	I	555	GLN
1	J	31	ASN
1	J	47	GLN
1	J	56	GLN
1	J	73	GLN
1	J	118	GLN
1	J	135	GLN
1	J	161	ASN
1	J	177	HIS
1	J	182	ASN
1	J	202	GLN
1	J	205	ASN
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	361	HIS
1	J	366	ASN
1	J	375	ASN
1	J	439	ASN
1	J	450	GLN
1	J	529	GLN
1	J	530	GLN
1	J	555	GLN
1	J	573	ASN
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	177	HIS
1	K	182	ASN

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Mol	Chain	Res	Type
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
1	K	331	ASN
1	K	337	ASN
1	K	361	HIS
1	K	366	ASN
1	K	375	ASN
1	K	439	ASN
1	K	450	GLN
1	K	529	GLN
1	K	530	GLN
1	L	31	ASN
1	L	47	GLN
1	L	56	GLN
1	L	73	GLN
1	L	118	GLN
1	L	135	GLN
1	L	161	ASN
1	L	177	HIS
1	L	182	ASN
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	375	ASN
1	L	439	ASN
1	L	450	GLN
1	L	529	GLN
1	L	530	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 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, 95th 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 ²)	Q < 0.9
1	A	692/725 (95%)	0.18	38 (5%)	30	34	49, 283, 538, 659	0
1	B	692/725 (95%)	0.22	41 (5%)	28	32	70, 292, 539, 632	0
1	C	692/725 (95%)	0.01	37 (5%)	32	34	88, 303, 549, 652	0
1	D	692/725 (95%)	0.11	35 (5%)	33	35	58, 304, 547, 649	0
1	E	692/725 (95%)	-0.00	35 (5%)	33	35	69, 298, 540, 629	0
1	F	692/725 (95%)	0.01	34 (4%)	35	36	72, 291, 546, 670	0
1	G	692/725 (95%)	0.09	33 (4%)	35	37	44, 274, 518, 635	0
1	H	692/725 (95%)	-0.00	25 (3%)	46	43	71, 265, 513, 584	0
1	I	692/725 (95%)	-0.10	14 (2%)	65	56	56, 259, 522, 645	0
1	J	692/725 (95%)	0.05	29 (4%)	40	40	55, 267, 501, 595	0
1	K	692/725 (95%)	-0.04	27 (3%)	43	42	64, 273, 542, 632	0
1	L	692/725 (95%)	0.02	27 (3%)	43	42	59, 271, 511, 594	0
All	All	8304/8700 (95%)	0.05	375 (4%)	38	38	44, 282, 532, 670	0

All (375) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	694	ASP	10.0
1	G	385	PRO	9.5
1	B	580	GLY	9.3
1	G	507	LEU	8.1
1	B	17	ALA	7.8
1	B	609	VAL	7.5
1	F	639	VAL	7.1
1	J	42	ASP	7.0
1	G	505	GLN	6.7
1	E	688	GLU	6.7
1	C	661	LYS	6.6

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Mol	Chain	Res	Type	RSRZ
1	H	423	GLU	6.5
1	F	422	THR	6.4
1	D	437	GLN	6.4
1	G	422	THR	6.3
1	A	525	GLN	6.2
1	H	185	GLU	6.0
1	D	686	ASN	5.8
1	A	423	GLU	5.7
1	C	423	GLU	5.7
1	G	423	GLU	5.6
1	D	700	GLN	5.5
1	C	662	GLN	5.5
1	L	385	PRO	5.5
1	B	422	THR	5.5
1	B	135	GLN	5.5
1	A	686	ASN	5.4
1	D	722	GLU	5.3
1	A	50	THR	5.3
1	E	686	ASN	5.1
1	C	181	GLN	5.0
1	B	20	THR	4.9
1	L	422	THR	4.9
1	B	423	GLU	4.9
1	G	421	ASP	4.9
1	L	423	GLU	4.8
1	J	41	TRP	4.7
1	B	421	ASP	4.6
1	F	421	ASP	4.6
1	E	416	ALA	4.6
1	F	719	SER	4.6
1	B	16	ASP	4.5
1	J	181	GLN	4.5
1	A	16	ASP	4.5
1	J	609	VAL	4.5
1	D	683	ALA	4.4
1	G	514	TYR	4.4
1	E	62	PRO	4.3
1	D	639	VAL	4.3
1	J	185	GLU	4.3
1	E	385	PRO	4.2
1	G	506	VAL	4.2
1	E	58	ASP	4.2

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Mol	Chain	Res	Type	RSRZ
1	J	256	ASP	4.2
1	C	658	ASP	4.2
1	C	185	GLU	4.2
1	C	177	HIS	4.1
1	E	643	ASN	4.1
1	C	665	PHE	4.1
1	J	641	ALA	4.1
1	E	60	VAL	4.1
1	B	18	ASP	4.0
1	B	715	GLN	4.0
1	E	685	ALA	4.0
1	L	182	ASN	3.9
1	F	342	ALA	3.9
1	E	59	VAL	3.9
1	H	686	ASN	3.9
1	B	177	HIS	3.9
1	H	682	ASP	3.9
1	K	686	ASN	3.9
1	B	14	ARG	3.9
1	C	180	SER	3.9
1	J	640	GLU	3.9
1	G	504	LYS	3.8
1	E	682	ASP	3.8
1	H	135	GLN	3.8
1	K	723	THR	3.8
1	A	697	THR	3.8
1	B	33	LEU	3.7
1	J	638	LYS	3.7
1	A	682	ASP	3.7
1	G	719	SER	3.7
1	L	421	ASP	3.7
1	J	643	ASN	3.6
1	E	640	GLU	3.6
1	L	719	SER	3.6
1	F	423	GLU	3.6
1	A	257	ASP	3.6
1	A	694	ASP	3.6
1	F	182	ASN	3.5
1	G	182	ASN	3.5
1	F	507	LEU	3.5
1	C	203	ASN	3.5
1	L	40	GLN	3.5

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Mol	Chain	Res	Type	RSRZ
1	A	611	ALA	3.5
1	H	683	ALA	3.5
1	L	381	SER	3.5
1	B	711	GLN	3.5
1	A	723	THR	3.4
1	G	153	CYS	3.4
1	K	58	ASP	3.4
1	B	696	GLN	3.4
1	L	518	THR	3.4
1	I	694	ASP	3.4
1	A	459	ARG	3.4
1	F	185	GLU	3.4
1	B	714	ASN	3.4
1	K	638	LYS	3.3
1	H	549	TYR	3.3
1	L	383	ASP	3.3
1	F	643	ASN	3.3
1	K	418	LEU	3.3
1	F	655	ASN	3.3
1	F	371	TYR	3.3
1	C	664	GLU	3.3
1	C	159	ASP	3.3
1	E	256	ASP	3.3
1	A	455	THR	3.3
1	B	103	ARG	3.3
1	D	690	LEU	3.3
1	F	694	ASP	3.3
1	E	419	GLY	3.2
1	E	692	LYS	3.2
1	G	563	LYS	3.2
1	G	723	THR	3.2
1	J	419	GLY	3.2
1	G	454	ALA	3.2
1	K	639	VAL	3.2
1	L	517	TYR	3.2
1	A	609	VAL	3.2
1	D	76	ILE	3.2
1	A	310	VAL	3.1
1	B	153	CYS	3.1
1	K	719	SER	3.1
1	D	417	THR	3.1
1	D	643	ASN	3.1

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Mol	Chain	Res	Type	RSRZ
1	H	656	ASN	3.1
1	E	417	THR	3.1
1	K	580	GLY	3.1
1	G	365	GLY	3.1
1	E	264	ILE	3.0
1	I	587	PRO	3.0
1	L	437	GLN	3.0
1	J	286	VAL	3.0
1	B	683	ALA	3.0
1	D	721	ALA	3.0
1	K	697	THR	3.0
1	G	718	GLY	3.0
1	L	266	ILE	2.9
1	D	419	GLY	2.9
1	G	571	TYR	2.9
1	H	62	PRO	2.9
1	E	63	VAL	2.9
1	H	416	ALA	2.9
1	K	552	LEU	2.9
1	A	608	MET	2.9
1	I	459	ARG	2.9
1	D	180	SER	2.9
1	J	652	GLU	2.9
1	E	689	LEU	2.9
1	B	712	ARG	2.9
1	B	260	ASP	2.9
1	H	367	ASP	2.9
1	C	611	ALA	2.8
1	B	262	GLY	2.8
1	G	266	ILE	2.8
1	C	717	SER	2.8
1	F	718	GLY	2.8
1	C	182	ASN	2.8
1	B	692	LYS	2.8
1	D	697	THR	2.8
1	B	259	ALA	2.8
1	K	683	ALA	2.8
1	B	13	SER	2.8
1	D	580	GLY	2.8
1	G	643	ASN	2.8
1	C	654	PHE	2.8
1	B	608	MET	2.8

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Mol	Chain	Res	Type	RSRZ
1	K	419	GLY	2.8
1	A	422	THR	2.8
1	B	100	THR	2.8
1	E	422	THR	2.8
1	J	213	THR	2.8
1	J	56	GLN	2.8
1	B	294	ALA	2.8
1	G	383	ASP	2.8
1	I	665	PHE	2.8
1	G	132	TYR	2.8
1	L	353	PRO	2.8
1	B	15	PHE	2.8
1	J	645	LEU	2.7
1	F	706	ASN	2.7
1	C	419	GLY	2.7
1	C	657	MET	2.7
1	A	47	GLN	2.7
1	J	642	GLN	2.7
1	K	715	GLN	2.7
1	G	195	ALA	2.7
1	F	336	PHE	2.7
1	F	516	CYS	2.7
1	B	286	VAL	2.7
1	F	341	VAL	2.7
1	D	322	LEU	2.7
1	L	700	GLN	2.7
1	H	182	ASN	2.7
1	A	256	ASP	2.6
1	B	104	HIS	2.6
1	G	185	GLU	2.6
1	G	355	GLN	2.6
1	G	154	SER	2.6
1	K	225	VAL	2.6
1	D	640	GLU	2.6
1	E	626	GLN	2.6
1	C	710	SER	2.6
1	J	639	VAL	2.6
1	I	58	ASP	2.6
1	K	177	HIS	2.6
1	L	355	GLN	2.6
1	J	637	ALA	2.6
1	F	372	TYR	2.6

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Mol	Chain	Res	Type	RSRZ
1	G	177	HIS	2.6
1	C	612	GLN	2.6
1	H	63	VAL	2.6
1	C	723	THR	2.6
1	E	66	LYS	2.6
1	J	215	ASP	2.6
1	I	293	ILE	2.6
1	J	459	ARG	2.6
1	B	624	LYS	2.5
1	K	694	ASP	2.5
1	C	608	MET	2.5
1	C	266	ILE	2.5
1	I	226	VAL	2.5
1	J	597	GLN	2.5
1	F	343	ARG	2.5
1	K	59	VAL	2.5
1	K	171	ARG	2.5
1	C	377	THR	2.5
1	E	265	LYS	2.5
1	F	41	TRP	2.5
1	A	516	CYS	2.5
1	F	638	LYS	2.5
1	G	697	THR	2.5
1	C	554	LEU	2.5
1	H	590	GLN	2.5
1	A	293	ILE	2.5
1	K	14	ARG	2.5
1	L	81	ARG	2.5
1	D	693	GLY	2.5
1	D	66	LYS	2.5
1	F	62	PRO	2.4
1	I	662	GLN	2.4
1	H	580	GLY	2.4
1	E	57	PHE	2.4
1	E	236	GLN	2.4
1	F	344	THR	2.4
1	H	676	GLN	2.4
1	D	583	LYS	2.4
1	E	546	THR	2.4
1	E	381	SER	2.4
1	C	626	GLN	2.4
1	A	526	SER	2.4

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Mol	Chain	Res	Type	RSRZ
1	B	21	ALA	2.4
1	D	680	SER	2.4
1	D	433	ASP	2.4
1	D	426	ASN	2.4
1	D	20	THR	2.3
1	L	180	SER	2.3
1	F	549	TYR	2.3
1	G	516	CYS	2.3
1	C	718	GLY	2.3
1	J	245	SER	2.3
1	A	103	ARG	2.3
1	C	63	VAL	2.3
1	F	459	ARG	2.3
1	D	56	GLN	2.3
1	G	611	ALA	2.3
1	K	249	ARG	2.3
1	A	451	ASP	2.3
1	D	638	LYS	2.3
1	K	621	GLU	2.3
1	C	20	THR	2.3
1	I	222	PHE	2.3
1	F	58	ASP	2.3
1	H	47	GLN	2.3
1	B	264	ILE	2.3
1	L	255	ILE	2.3
1	A	51	LEU	2.3
1	I	274	ARG	2.3
1	A	222	PHE	2.2
1	D	687	ALA	2.2
1	F	220	ALA	2.2
1	F	310	VAL	2.2
1	D	619	GLN	2.2
1	J	264	ILE	2.2
1	K	341	VAL	2.2
1	B	23	ASP	2.2
1	G	722	GLU	2.2
1	C	264	ILE	2.2
1	J	184	TRP	2.2
1	K	643	ASN	2.2
1	E	345	PRO	2.2
1	A	719	SER	2.2
1	C	549	TYR	2.2

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Mol	Chain	Res	Type	RSRZ
1	D	346	LYS	2.2
1	K	549	TYR	2.2
1	A	376	ARG	2.2
1	J	203	ASN	2.2
1	D	723	THR	2.2
1	C	624	LYS	2.2
1	K	553	LEU	2.2
1	D	712	ARG	2.2
1	C	431	ALA	2.2
1	J	636	ALA	2.2
1	L	416	ALA	2.2
1	H	680	SER	2.2
1	L	80	TYR	2.2
1	E	367	ASP	2.2
1	A	454	ALA	2.2
1	F	82	PRO	2.2
1	I	455	THR	2.2
1	J	239	VAL	2.2
1	A	580	GLY	2.1
1	H	266	ILE	2.1
1	H	244	VAL	2.1
1	L	63	VAL	2.1
1	D	696	GLN	2.1
1	C	640	GLU	2.1
1	F	611	ALA	2.1
1	B	385	PRO	2.1
1	C	368	ASP	2.1
1	H	340	ILE	2.1
1	E	706	ASN	2.1
1	E	323	THR	2.1
1	L	441	ARG	2.1
1	E	56	GLN	2.1
1	E	612	GLN	2.1
1	H	662	GLN	2.1
1	A	19	TRP	2.1
1	A	510	ILE	2.1
1	I	140	ASN	2.1
1	A	683	ALA	2.1
1	B	419	GLY	2.1
1	K	367	ASP	2.1
1	A	59	VAL	2.1
1	D	416	ALA	2.1

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Mol	Chain	Res	Type	RSRZ
1	H	48	TYR	2.1
1	D	422	THR	2.1
1	A	349	PRO	2.1
1	K	159	ASP	2.1
1	F	571	TYR	2.1
1	L	203	ASN	2.1
1	J	244	VAL	2.1
1	E	14	ARG	2.0
1	E	65	ARG	2.0
1	B	233	PHE	2.0
1	H	262	GLY	2.0
1	F	240	THR	2.0
1	G	386	THR	2.0
1	A	419	GLY	2.0
1	C	625	ALA	2.0
1	I	454	ALA	2.0
1	L	382	GLY	2.0
1	L	721	ALA	2.0
1	A	6	ASN	2.0
1	H	417	THR	2.0
1	L	387	GLN	2.0
1	B	563	LYS	2.0
1	A	700	GLN	2.0
1	F	614	VAL	2.0
1	G	291	GLN	2.0
1	I	505	GLN	2.0
1	C	418	LEU	2.0
1	B	710	SER	2.0

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

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

6.3 Carbohydrates [i](#)

There are no oligosaccharides 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.