



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 09:21 PM GMT

PDB ID : 4V44
Title : E. COLI (lacZ) BETA-GALACTOSIDASE IN COMPLEX WITH 2-F-LACTOSE
Authors : Juers, D.H.; McCarter, J.D.; Withers, S.G.; Matthews, B.W.
Deposited on : 2001-09-13
Resolution : 2.70 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
<http://wwpdb.org/validation/2016/XrayValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

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

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

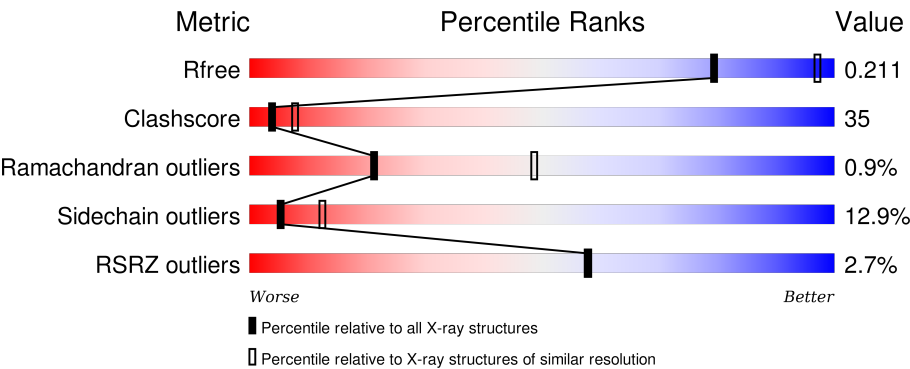
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.70 Å.

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








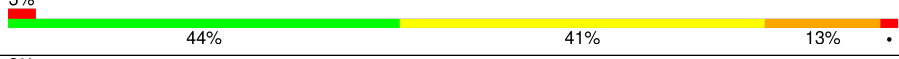
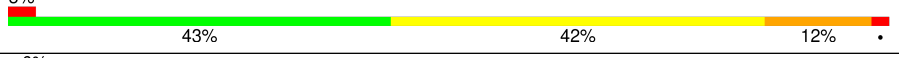
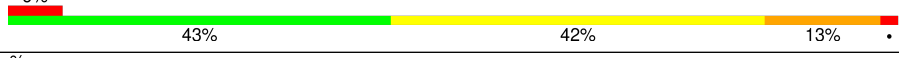
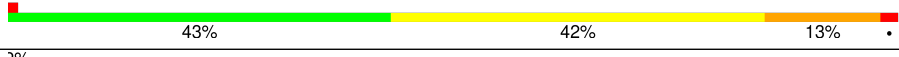
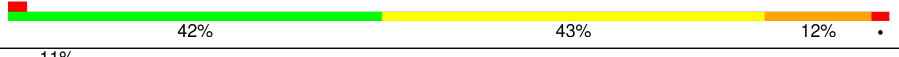
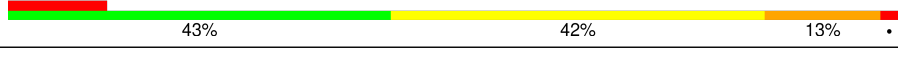
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R _{free}	91344	2103 (2.70-2.70)
Clashscore	102246	2422 (2.70-2.70)
Ramachandran outliers	100387	2382 (2.70-2.70)
Sidechain outliers	100360	2382 (2.70-2.70)
RSRZ outliers	91569	2107 (2.70-2.70)

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

Mol	Chain	Length	Quality of chain
1	A	1023	<div><div></div><div><div></div><div>43%</div><div>42%</div><div>13%</div><div></div></div><div></div></div>
1	B	1023	<div><div></div><div><div></div><div>43%</div><div>42%</div><div>13%</div><div></div></div><div></div></div>
1	C	1023	<div><div></div><div><div></div><div>44%</div><div>41%</div><div>12%</div><div></div></div><div></div></div>
1	D	1023	<div><div></div><div><div></div><div>43%</div><div>42%</div><div>13%</div><div></div></div><div></div></div>
1	E	1023	<div><div>4%</div><div><div></div><div>43%</div><div>42%</div><div>13%</div><div></div></div><div></div></div>

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Mol	Chain	Length	Quality of chain
1	F	1023	
1	G	1023	
1	H	1023	
1	I	1023	
1	J	1023	
1	K	1023	
1	L	1023	
1	M	1023	
1	N	1023	
1	O	1023	
1	P	1023	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
1	CME	A	1021	-	-	X	-
1	CME	B	1021	-	-	X	-
1	CME	C	1021	-	-	X	-
1	CME	D	1021	-	-	X	-
1	CME	E	1021	-	-	X	-
1	CME	F	1021	-	-	X	-
1	CME	G	1021	-	-	X	-
1	CME	H	1021	-	-	X	-
1	CME	I	1021	-	-	X	-
1	CME	J	1021	-	-	X	-
1	CME	K	1021	-	-	X	-
1	CME	L	1021	-	-	X	-
1	CME	M	1021	-	-	X	-
1	CME	N	1021	-	-	X	-
1	CME	O	1021	-	-	X	-
1	CME	P	1021	-	-	X	-
2	2FL	B	2001	-	-	-	X
2	2FL	C	2001	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	2FL	D	2001	-	-	-	X
2	2FL	E	2001	-	-	-	X
2	2FL	F	2001	-	-	-	X
2	2FL	G	2001	-	-	-	X
2	2FL	H	2001	-	-	-	X
2	2FL	J	2001	-	-	-	X
2	2FL	K	2001	-	-	-	X
2	2FL	L	2001	-	-	-	X
2	2FL	O	2001	-	-	-	X
3	MG	B	2002	-	-	-	X
3	MG	C	2002	-	-	-	X
3	MG	D	2002	-	-	-	X
3	MG	F	2002	-	-	-	X
3	MG	G	2002	-	-	-	X
3	MG	H	2002	-	-	-	X
3	MG	I	2002	-	-	-	X
3	MG	N	2002	-	-	-	X
3	MG	O	2002	-	-	-	X
4	NA	B	2005	-	-	-	X
4	NA	E	2004	-	-	-	X
4	NA	F	2005	-	-	-	X
4	NA	J	2004	-	-	-	X
4	NA	J	2005	-	-	-	X
4	NA	K	2004	-	-	-	X
4	NA	L	2004	-	-	-	X
4	NA	M	2004	-	-	-	X
4	NA	N	2005	-	-	-	X
4	NA	O	2005	-	-	-	X
4	NA	P	2004	-	-	-	X

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 134528 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 Beta-Galactosidase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	1021	Total	C	N	O	S	0	2	0
			8219	5196	1454	1528	41			
1	B	1021	Total	C	N	O	S	0	2	0
			8219	5196	1454	1528	41			
1	C	1021	Total	C	N	O	S	0	2	0
			8219	5196	1454	1528	41			
1	D	1021	Total	C	N	O	S	0	2	0
			8219	5196	1454	1528	41			
1	E	1021	Total	C	N	O	S	0	2	0
			8219	5196	1454	1528	41			
1	F	1021	Total	C	N	O	S	0	2	0
			8219	5196	1454	1528	41			
1	G	1021	Total	C	N	O	S	0	2	0
			8219	5196	1454	1528	41			
1	H	1021	Total	C	N	O	S	0	2	0
			8219	5196	1454	1528	41			
1	I	1021	Total	C	N	O	S	0	2	0
			8219	5196	1454	1528	41			
1	J	1021	Total	C	N	O	S	0	2	0
			8219	5196	1454	1528	41			
1	K	1021	Total	C	N	O	S	0	2	0
			8219	5196	1454	1528	41			
1	L	1021	Total	C	N	O	S	0	2	0
			8219	5196	1454	1528	41			
1	M	1021	Total	C	N	O	S	0	2	0
			8219	5196	1454	1528	41			
1	N	1021	Total	C	N	O	S	0	2	0
			8219	5196	1454	1528	41			
1	O	1021	Total	C	N	O	S	0	2	0
			8219	5196	1454	1528	41			
1	P	1021	Total	C	N	O	S	0	2	0
			8219	5196	1454	1528	41			

There are 48 discrepancies between the modelled and reference sequences:

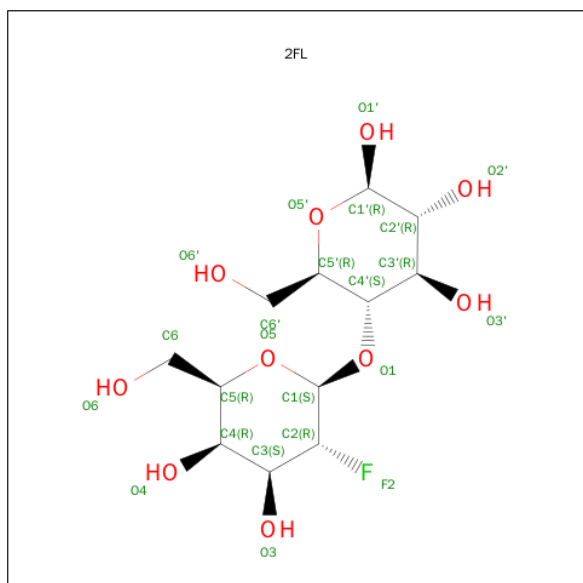
Chain	Residue	Modelled	Actual	Comment	Reference
A	748	CME	CYS	MODIFIED RESIDUE	UNP P00722
A	914	CME	CYS	MODIFIED RESIDUE	UNP P00722
A	1021	CME	CYS	MODIFIED RESIDUE	UNP P00722
B	748	CME	CYS	MODIFIED RESIDUE	UNP P00722
B	914	CME	CYS	MODIFIED RESIDUE	UNP P00722
B	1021	CME	CYS	MODIFIED RESIDUE	UNP P00722
C	748	CME	CYS	MODIFIED RESIDUE	UNP P00722
C	914	CME	CYS	MODIFIED RESIDUE	UNP P00722
C	1021	CME	CYS	MODIFIED RESIDUE	UNP P00722
D	748	CME	CYS	MODIFIED RESIDUE	UNP P00722
D	914	CME	CYS	MODIFIED RESIDUE	UNP P00722
D	1021	CME	CYS	MODIFIED RESIDUE	UNP P00722
E	748	CME	CYS	MODIFIED RESIDUE	UNP P00722
E	914	CME	CYS	MODIFIED RESIDUE	UNP P00722
E	1021	CME	CYS	MODIFIED RESIDUE	UNP P00722
F	748	CME	CYS	MODIFIED RESIDUE	UNP P00722
F	914	CME	CYS	MODIFIED RESIDUE	UNP P00722
F	1021	CME	CYS	MODIFIED RESIDUE	UNP P00722
G	748	CME	CYS	MODIFIED RESIDUE	UNP P00722
G	914	CME	CYS	MODIFIED RESIDUE	UNP P00722
G	1021	CME	CYS	MODIFIED RESIDUE	UNP P00722
H	748	CME	CYS	MODIFIED RESIDUE	UNP P00722
H	914	CME	CYS	MODIFIED RESIDUE	UNP P00722
H	1021	CME	CYS	MODIFIED RESIDUE	UNP P00722
I	748	CME	CYS	MODIFIED RESIDUE	UNP P00722
I	914	CME	CYS	MODIFIED RESIDUE	UNP P00722
I	1021	CME	CYS	MODIFIED RESIDUE	UNP P00722
J	748	CME	CYS	MODIFIED RESIDUE	UNP P00722
J	914	CME	CYS	MODIFIED RESIDUE	UNP P00722
J	1021	CME	CYS	MODIFIED RESIDUE	UNP P00722
K	748	CME	CYS	MODIFIED RESIDUE	UNP P00722
K	914	CME	CYS	MODIFIED RESIDUE	UNP P00722
K	1021	CME	CYS	MODIFIED RESIDUE	UNP P00722
L	748	CME	CYS	MODIFIED RESIDUE	UNP P00722
L	914	CME	CYS	MODIFIED RESIDUE	UNP P00722
L	1021	CME	CYS	MODIFIED RESIDUE	UNP P00722
M	748	CME	CYS	MODIFIED RESIDUE	UNP P00722
M	914	CME	CYS	MODIFIED RESIDUE	UNP P00722
M	1021	CME	CYS	MODIFIED RESIDUE	UNP P00722
N	748	CME	CYS	MODIFIED RESIDUE	UNP P00722
N	914	CME	CYS	MODIFIED RESIDUE	UNP P00722
N	1021	CME	CYS	MODIFIED RESIDUE	UNP P00722

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Chain	Residue	Modelled	Actual	Comment	Reference
O	748	CME	CYS	MODIFIED RESIDUE	UNP P00722
O	914	CME	CYS	MODIFIED RESIDUE	UNP P00722
O	1021	CME	CYS	MODIFIED RESIDUE	UNP P00722
P	748	CME	CYS	MODIFIED RESIDUE	UNP P00722
P	914	CME	CYS	MODIFIED RESIDUE	UNP P00722
P	1021	CME	CYS	MODIFIED RESIDUE	UNP P00722

- Molecule 2 is SUGAR (2-FLUORO-2-DEOXY-LACTOSE) (three-letter code: 2FL) (formula: C₁₂H₂₁FO₁₀).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	F	O	0	0
			23	12	1	10		
2	B	1	Total	C	F	O	0	0
			23	12	1	10		
2	C	1	Total	C	F	O	0	0
			23	12	1	10		
2	D	1	Total	C	F	O	0	0
			23	12	1	10		
2	E	1	Total	C	F	O	0	0
			23	12	1	10		
2	F	1	Total	C	F	O	0	0
			23	12	1	10		
2	G	1	Total	C	F	O	0	0
			23	12	1	10		
2	H	1	Total	C	F	O	0	0
			23	12	1	10		

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	I	1	Total	C	F	O	0	0
			23	12	1	10		
2	J	1	Total	C	F	O	0	0
			23	12	1	10		
2	K	1	Total	C	F	O	0	0
			23	12	1	10		
2	L	1	Total	C	F	O	0	0
			23	12	1	10		
2	M	1	Total	C	F	O	0	0
			23	12	1	10		
2	N	1	Total	C	F	O	0	0
			23	12	1	10		
2	O	1	Total	C	F	O	0	0
			23	12	1	10		
2	P	1	Total	C	F	O	0	0
			23	12	1	10		

- Molecule 3 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	P	2	Total	Mg	0	0
			2	2		
3	G	2	Total	Mg	0	0
			2	2		
3	J	2	Total	Mg	0	0
			2	2		
3	D	2	Total	Mg	0	0
			2	2		
3	K	2	Total	Mg	0	0
			2	2		
3	E	2	Total	Mg	0	0
			2	2		
3	H	2	Total	Mg	0	0
			2	2		
3	B	2	Total	Mg	0	0
			2	2		
3	I	2	Total	Mg	0	0
			2	2		
3	C	2	Total	Mg	0	0
			2	2		
3	A	2	Total	Mg	0	0
			2	2		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	N	2	Total 2	Mg 2	0	0
3	O	2	Total 2	Mg 2	0	0
3	L	2	Total 2	Mg 2	0	0
3	F	2	Total 2	Mg 2	0	0
3	M	2	Total 2	Mg 2	0	0

- Molecule 4 is SODIUM ION (three-letter code: NA) (formula: Na).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	P	2	Total 2	Na 2	0	0
4	G	2	Total 2	Na 2	0	0
4	J	2	Total 2	Na 2	0	0
4	D	2	Total 2	Na 2	0	0
4	K	2	Total 2	Na 2	0	0
4	E	2	Total 2	Na 2	0	0
4	H	2	Total 2	Na 2	0	0
4	B	2	Total 2	Na 2	0	0
4	I	2	Total 2	Na 2	0	0
4	C	2	Total 2	Na 2	0	0
4	A	2	Total 2	Na 2	0	0
4	N	2	Total 2	Na 2	0	0
4	O	2	Total 2	Na 2	0	0
4	L	2	Total 2	Na 2	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	F	2	Total 2	Na 2	0	0
4	M	2	Total 2	Na 2	0	0

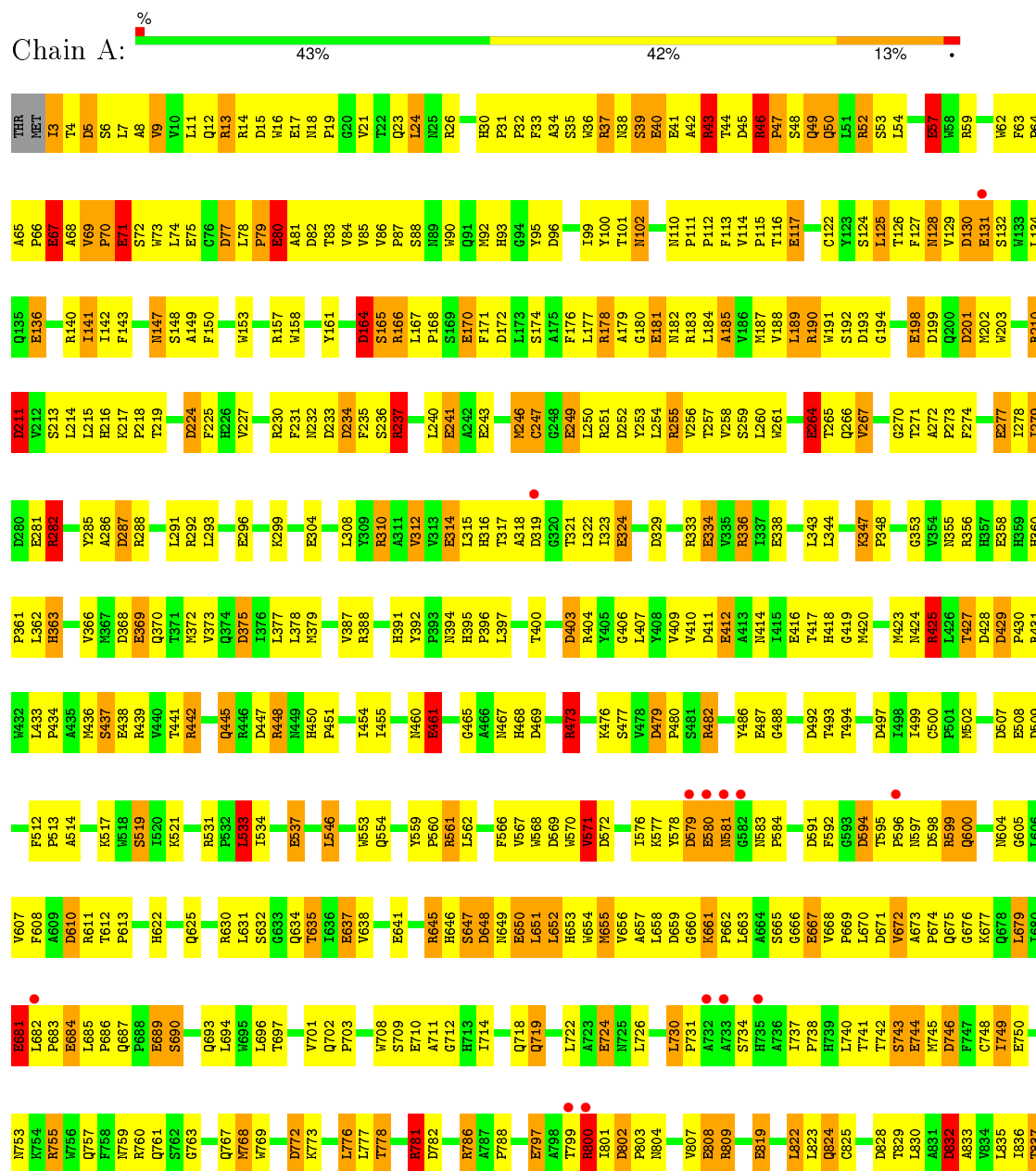
- Molecule 5 is water.

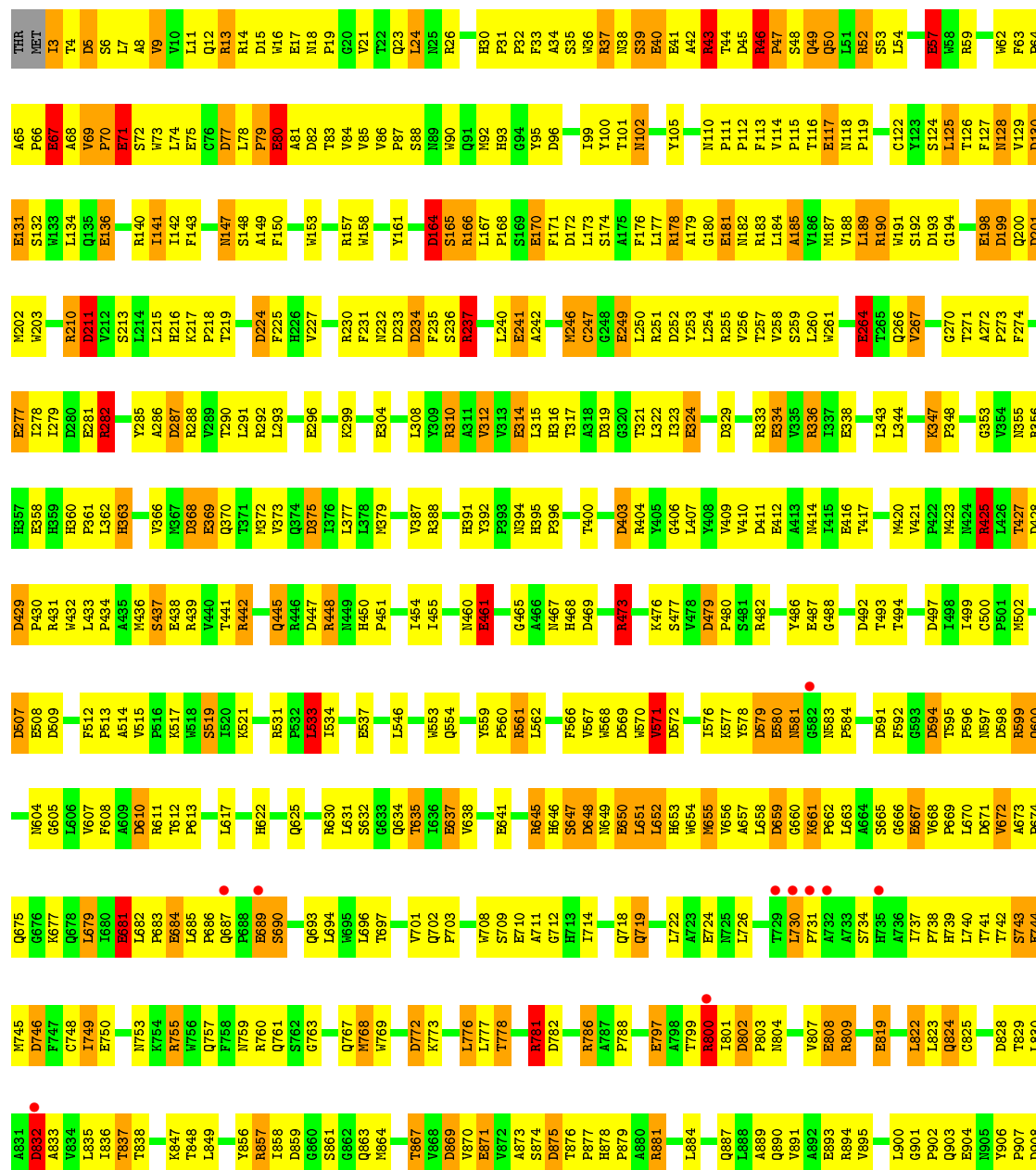
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	160	Total 160	O 160	0	0
5	B	163	Total 163	O 163	0	0
5	C	162	Total 162	O 162	0	0
5	D	163	Total 163	O 163	0	0
5	E	162	Total 162	O 162	0	0
5	F	162	Total 162	O 162	0	0
5	G	162	Total 162	O 162	0	0
5	H	162	Total 162	O 162	0	0
5	I	162	Total 162	O 162	0	0
5	J	162	Total 162	O 162	0	0
5	K	162	Total 162	O 162	0	0
5	L	162	Total 162	O 162	0	0
5	M	161	Total 161	O 161	0	0
5	N	163	Total 163	O 163	0	0
5	O	161	Total 161	O 161	0	0
5	P	163	Total 163	O 163	0	0

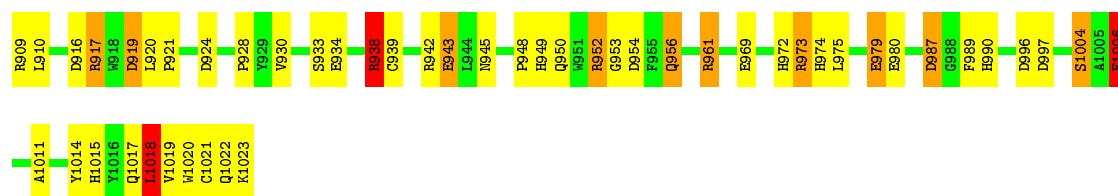
3 Residue-property plots

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

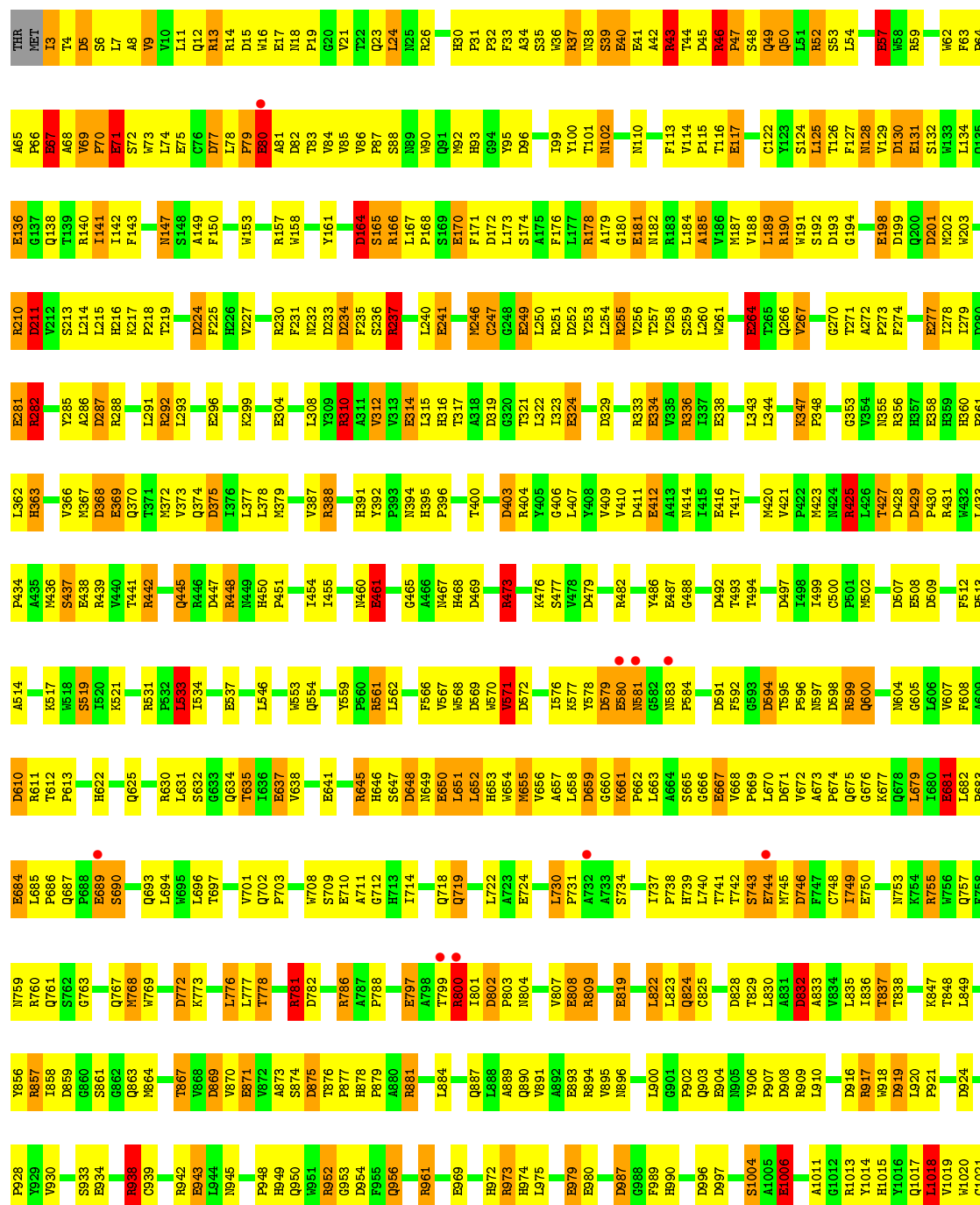
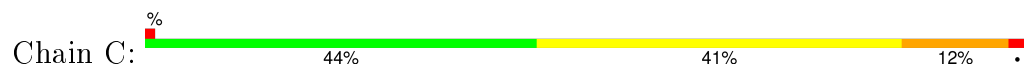
• Molecule 1: Beta-Galactosidase





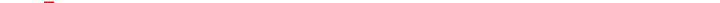


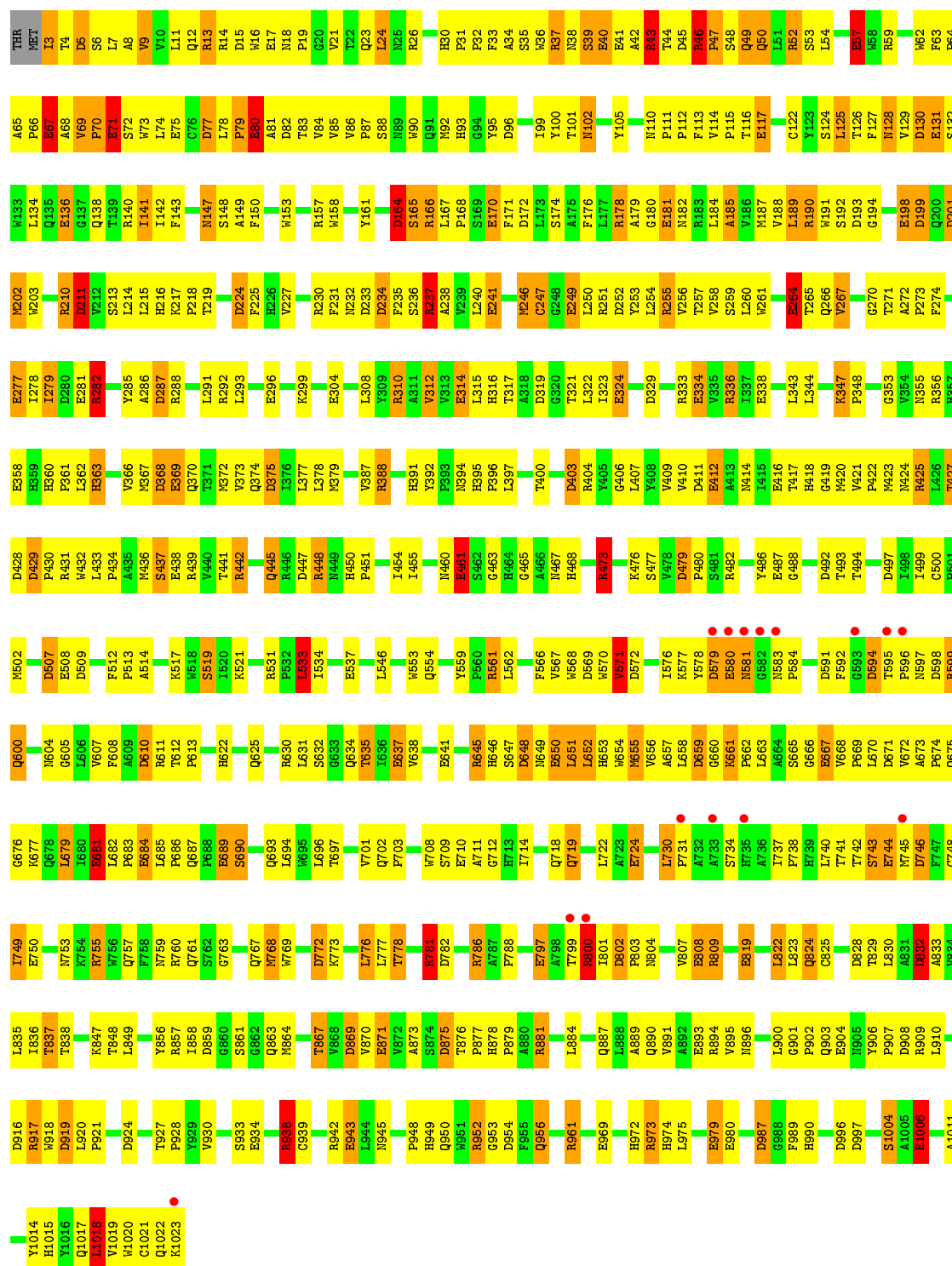
• Molecule 1: Beta-Galactosidase



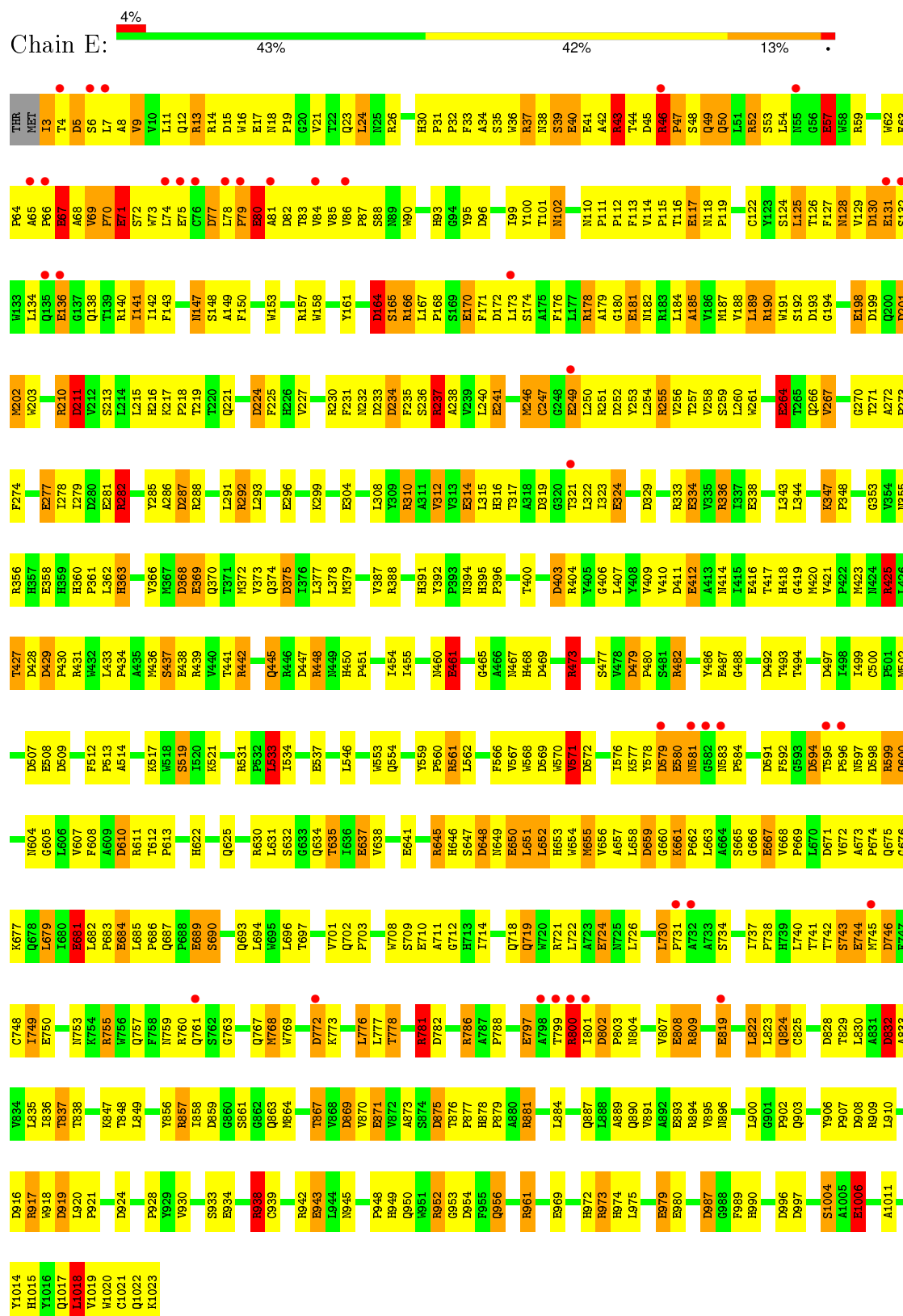
Q1022
K1023

- Molecule 1: Beta-Galactosidase

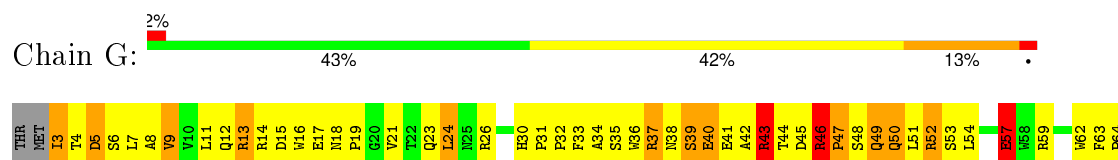
Chain D:  43% 42% 13%

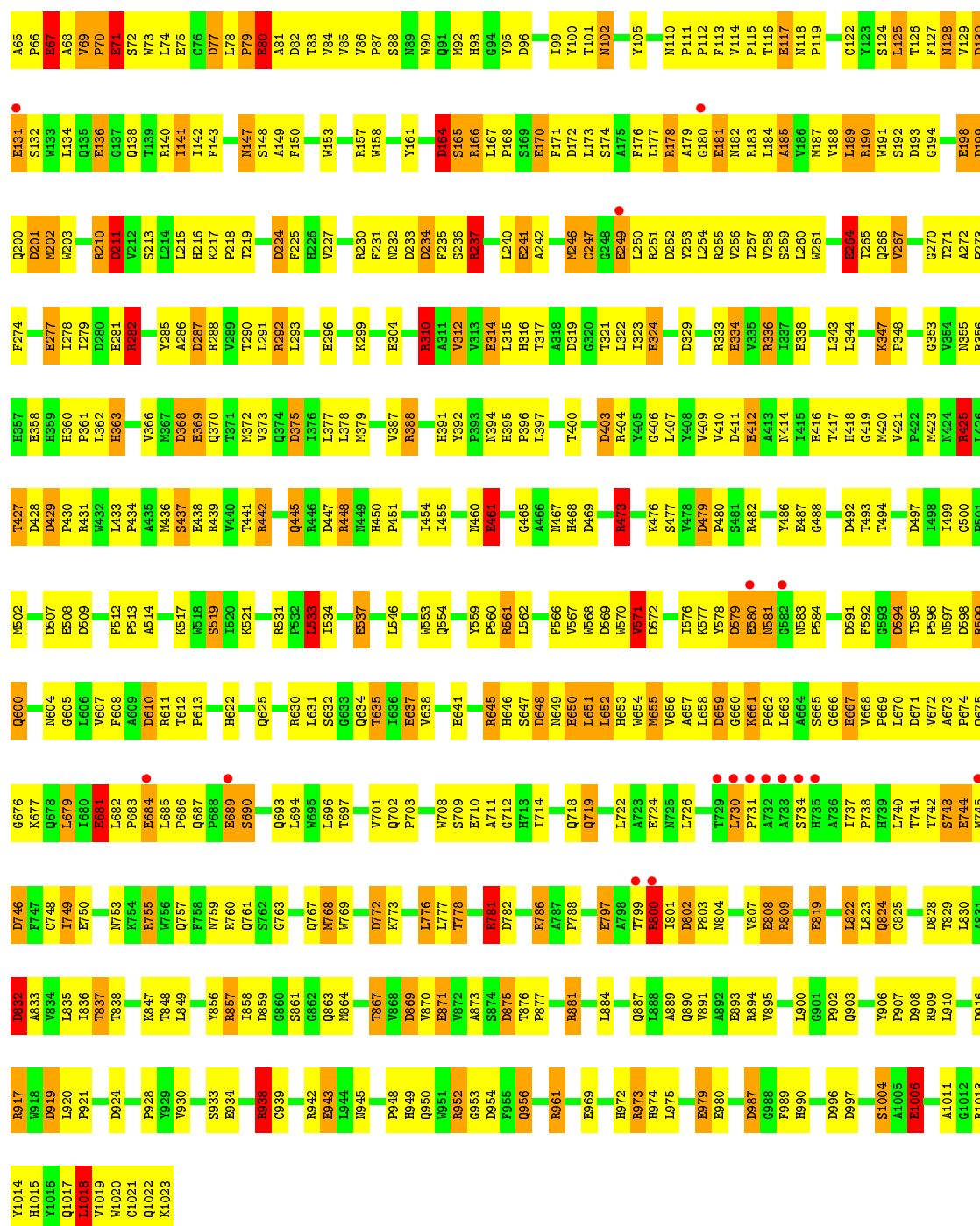


• Molecule 1: Beta-Galactosidase

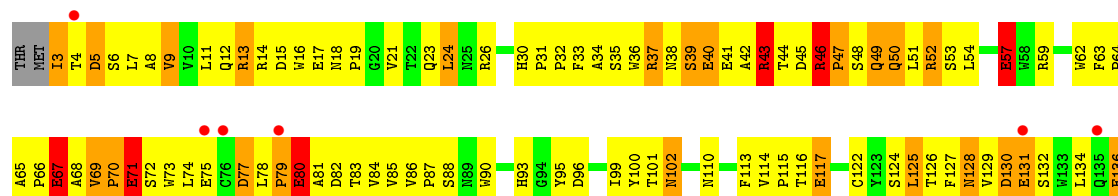
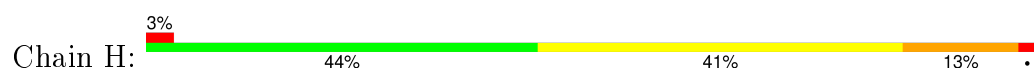


• Molecule 1: Beta-Galactosidase

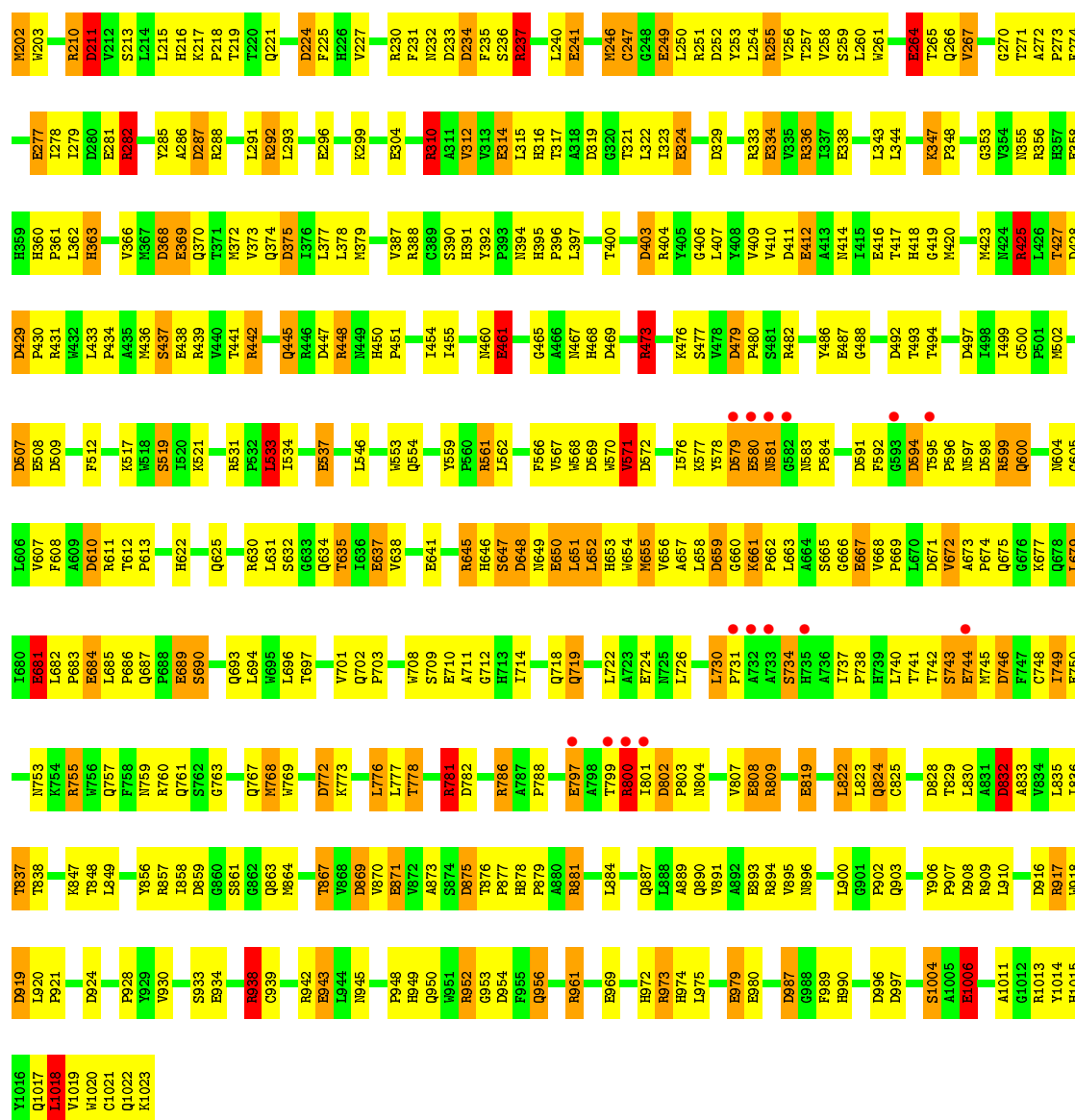




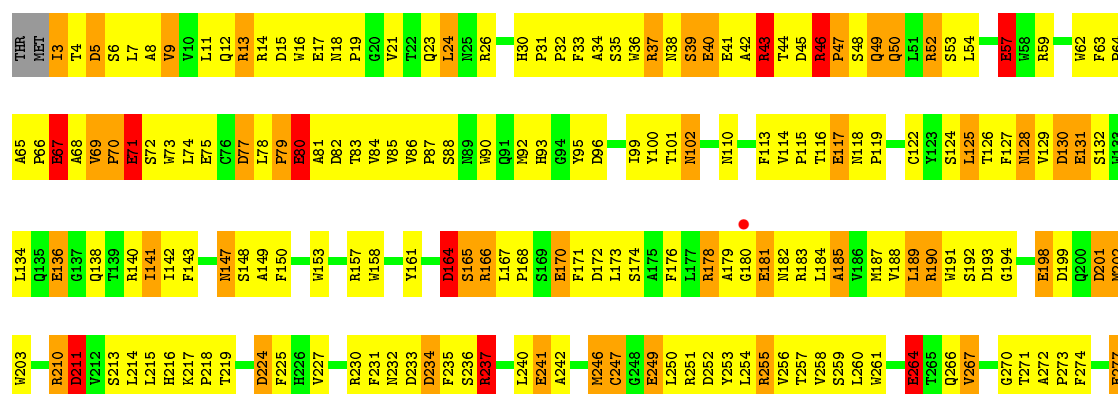
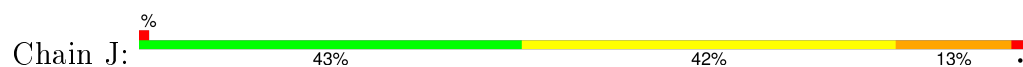
● Molecule 1: Beta-Galactosidase

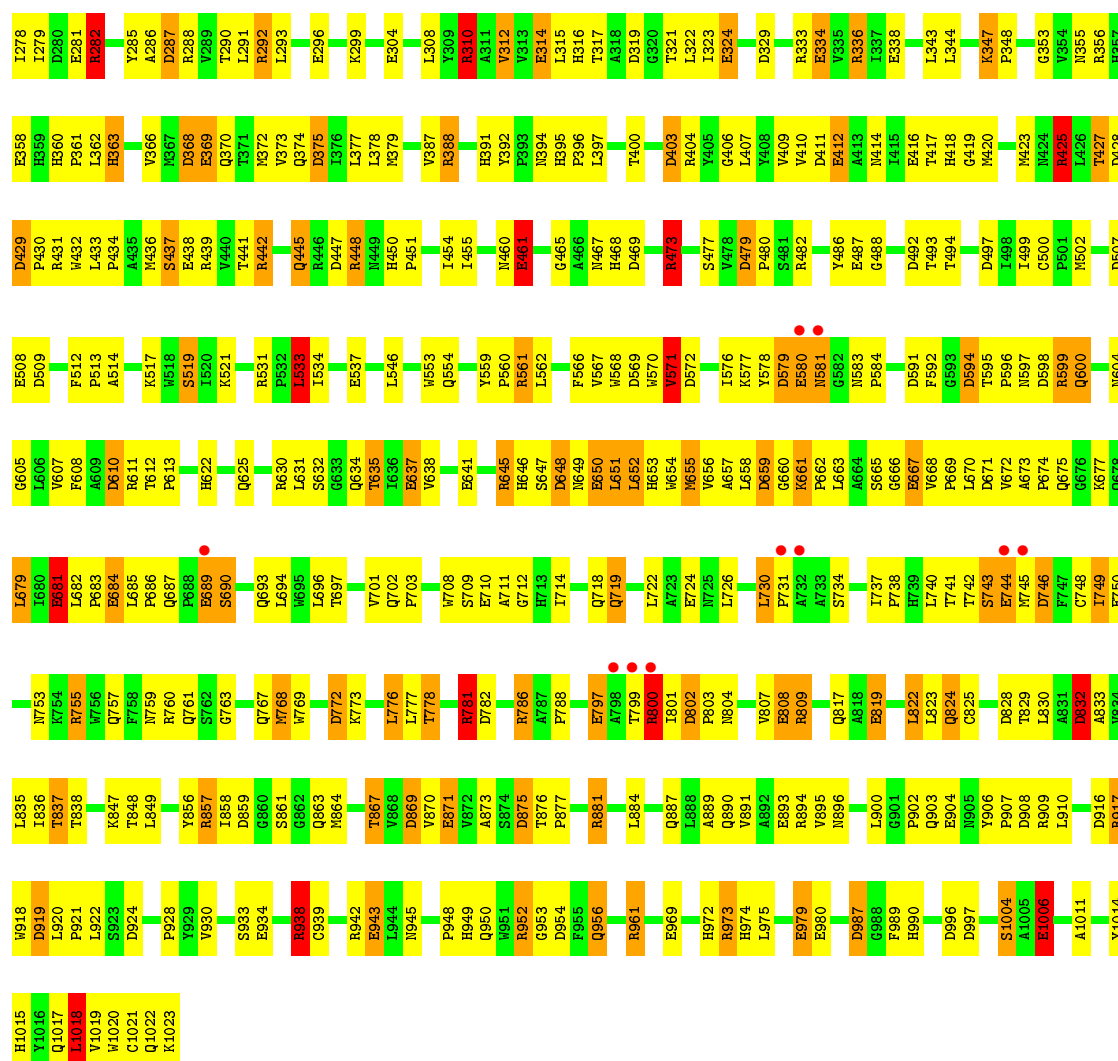




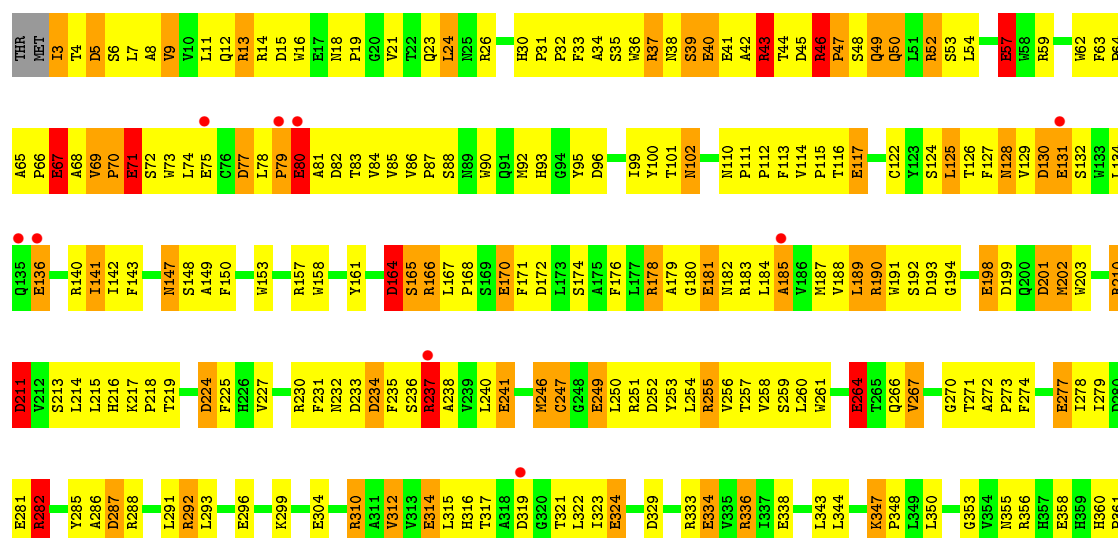
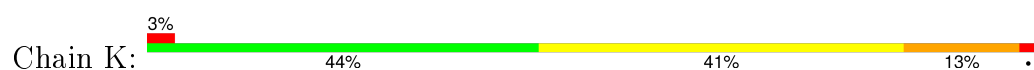


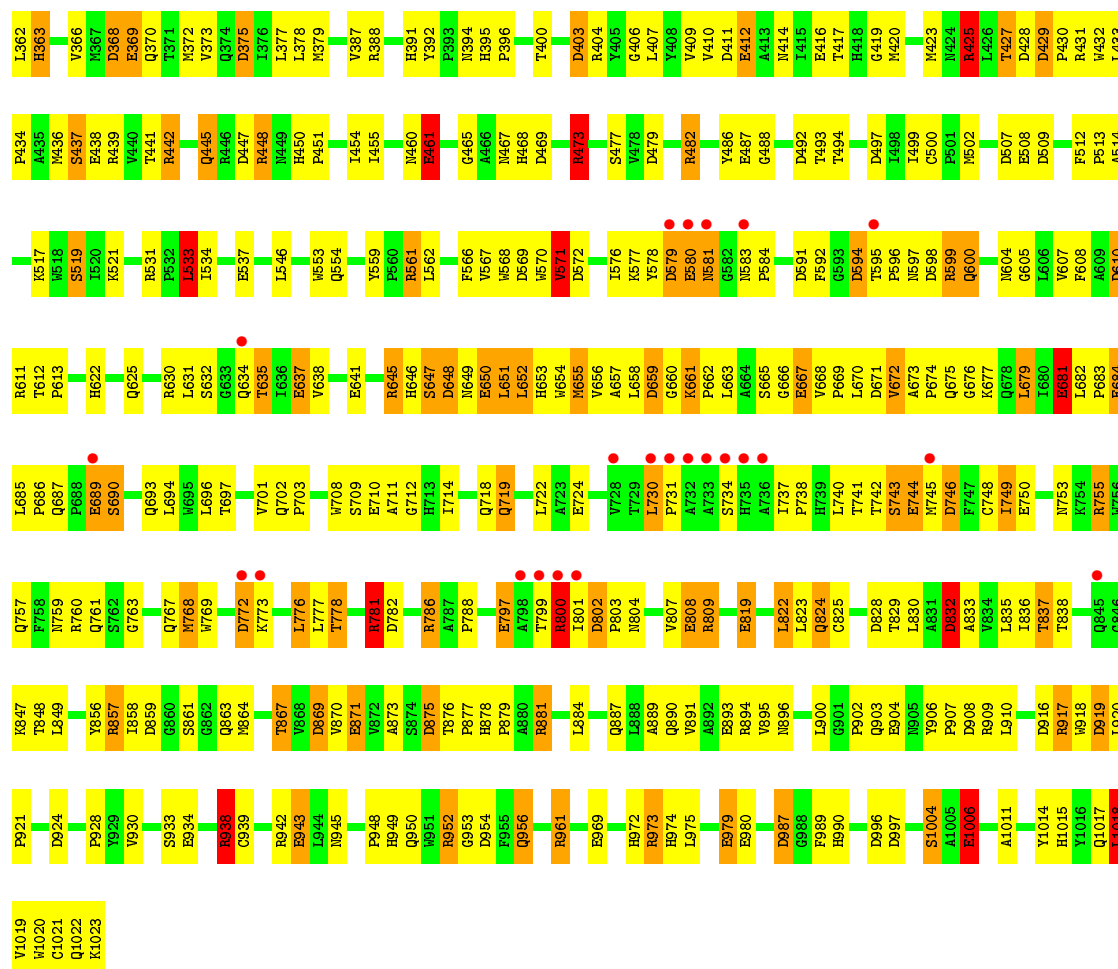
• Molecule 1: Beta-Galactosidase



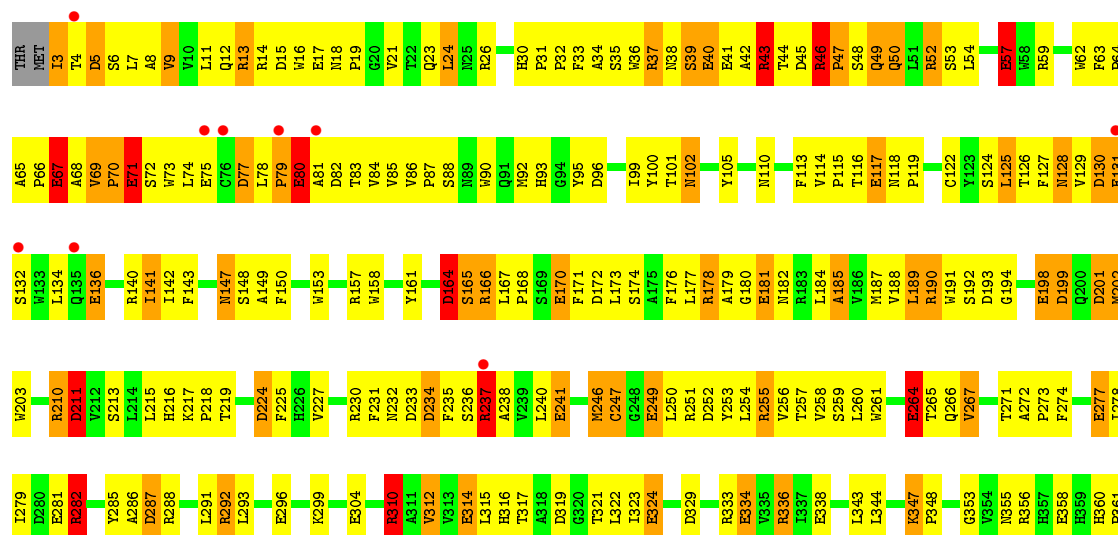
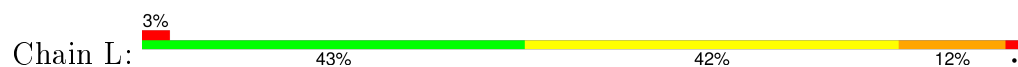


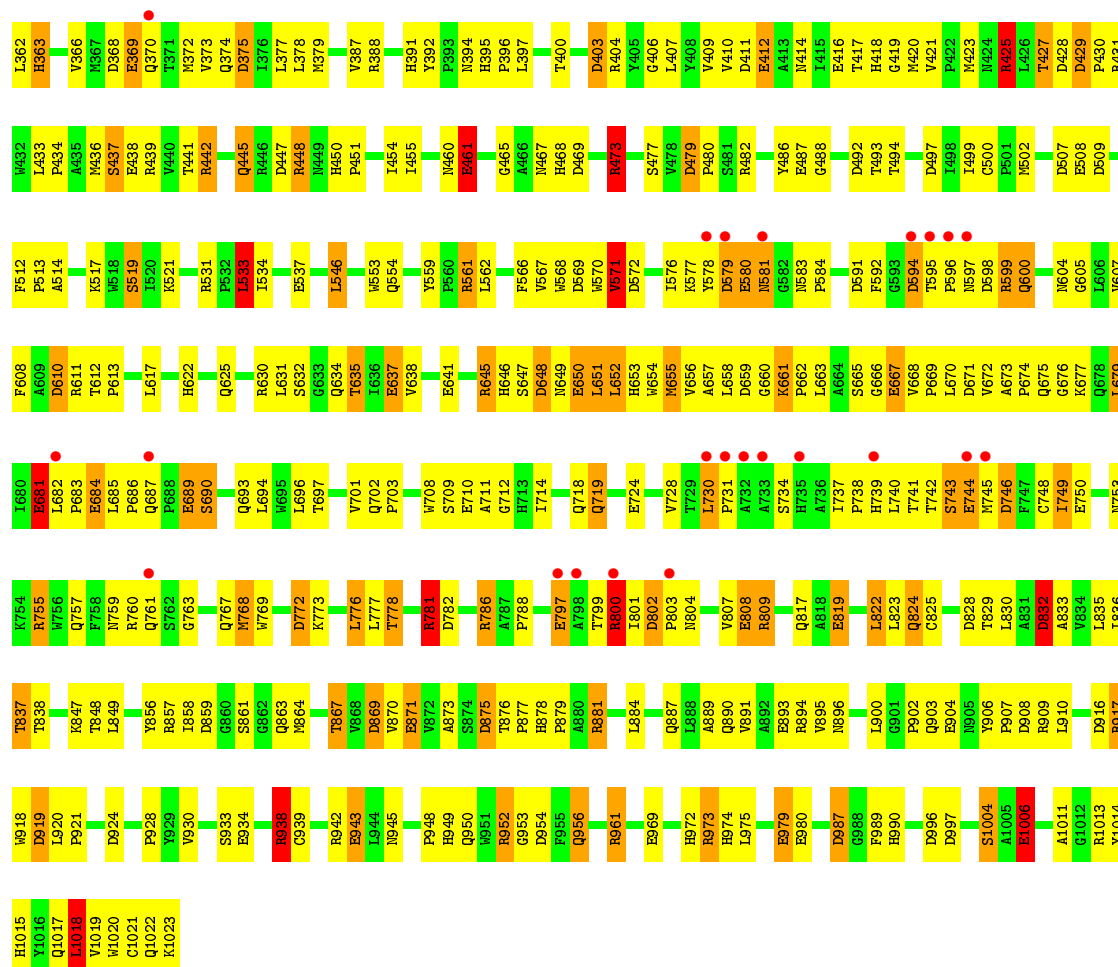
• Molecule 1: Beta-Galactosidase



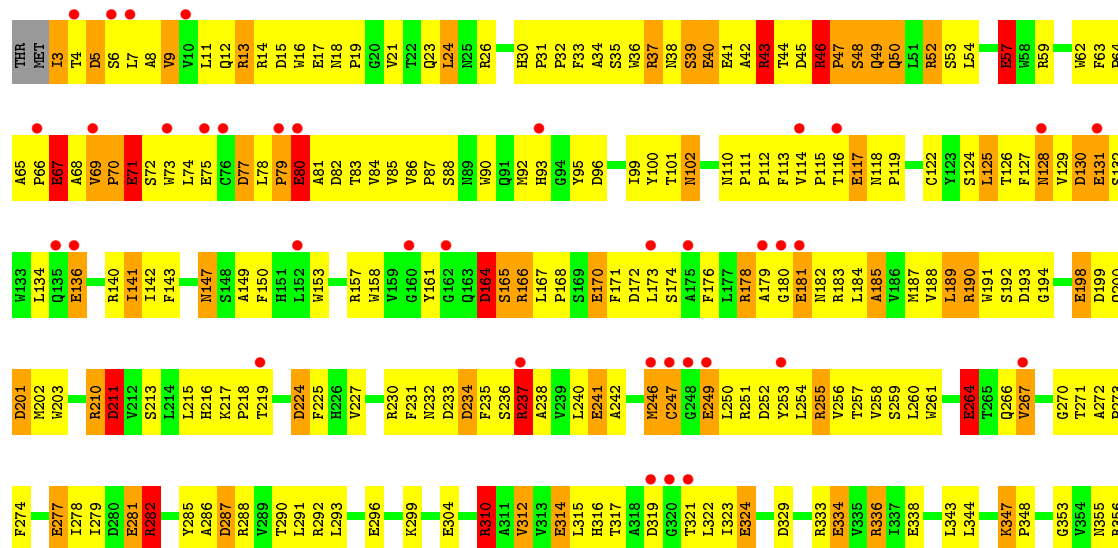
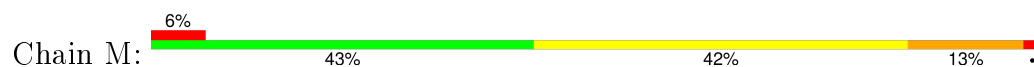


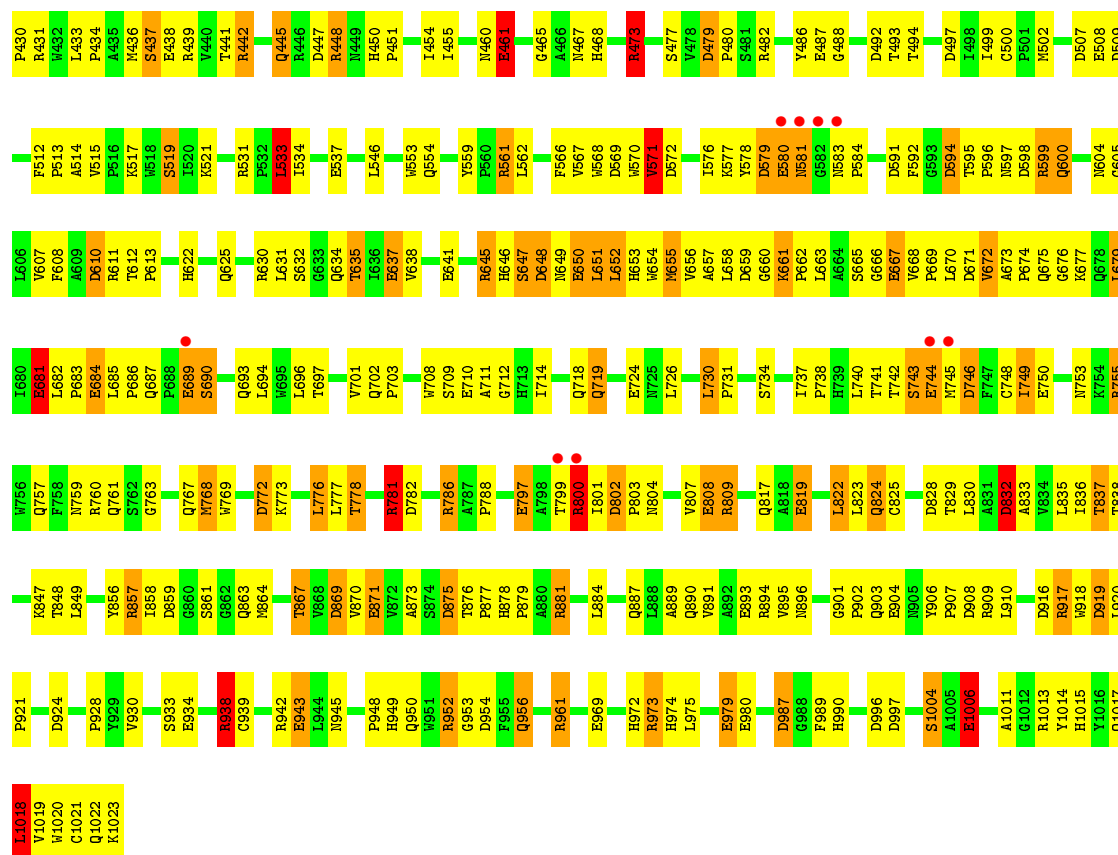
• Molecule 1: Beta-Galactosidase



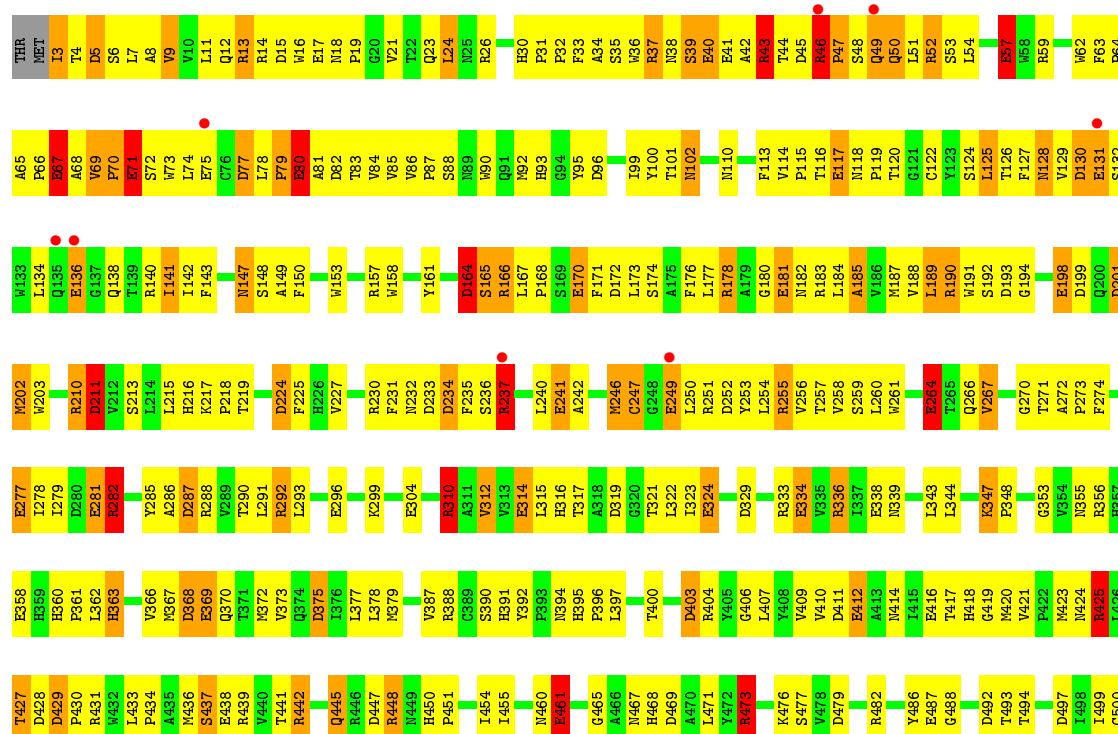


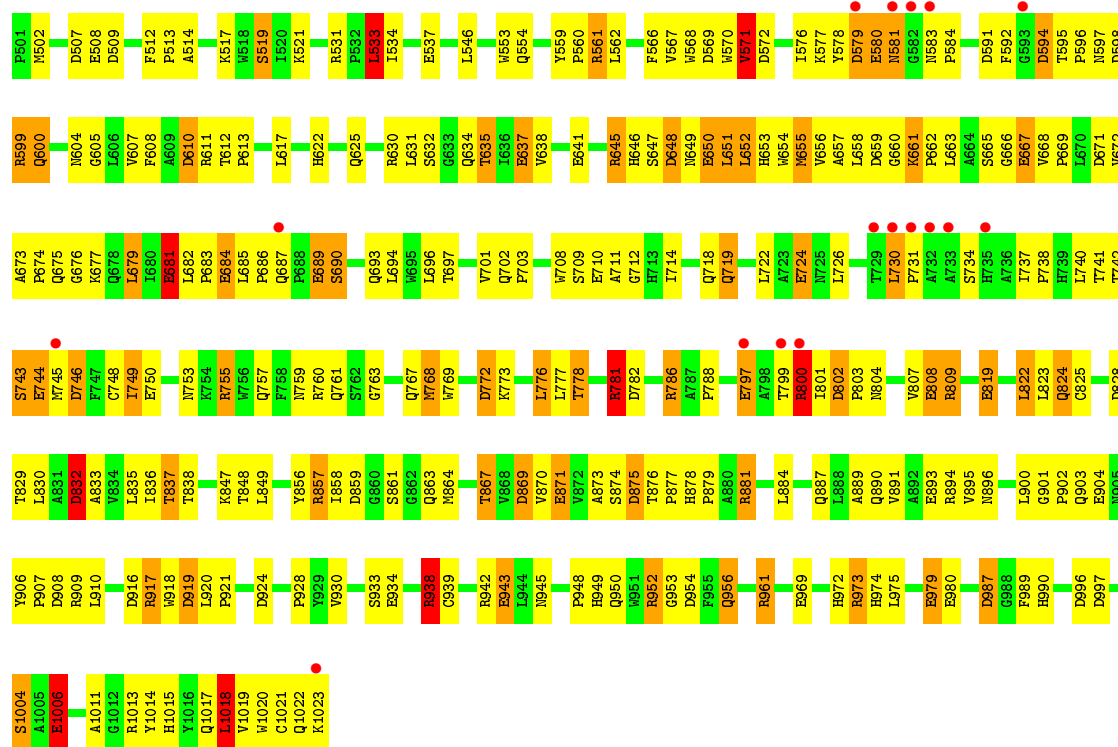
• Molecule 1: Beta-Galactosidase



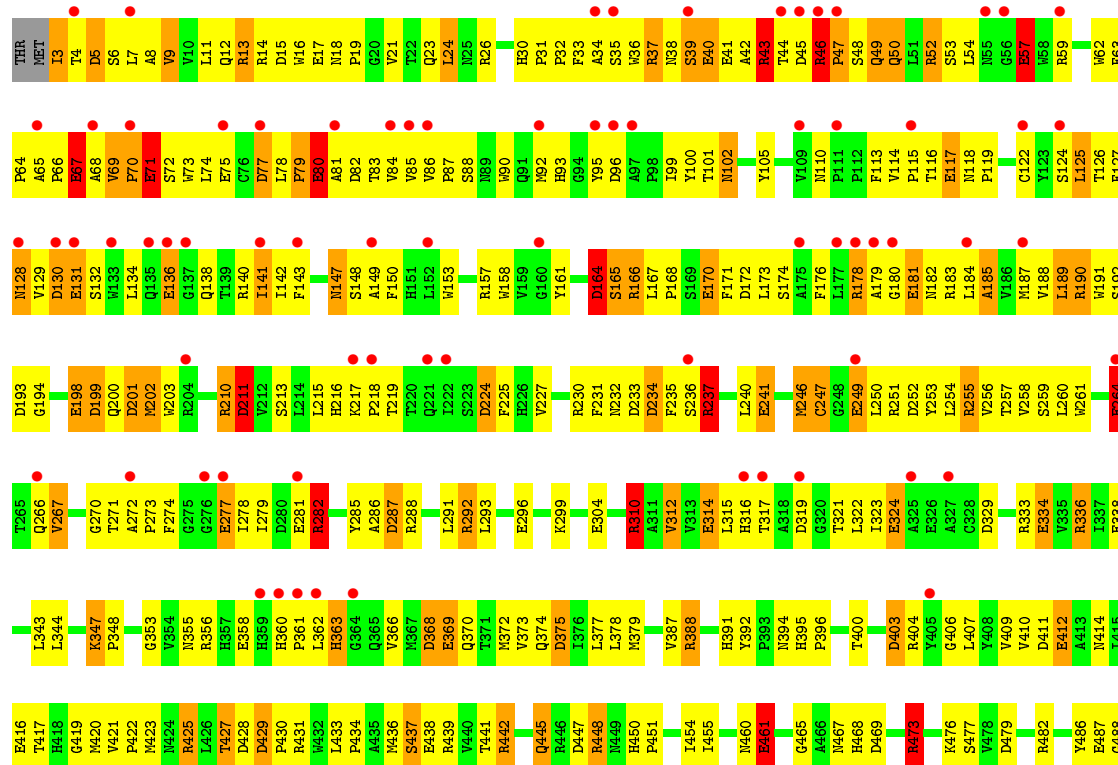


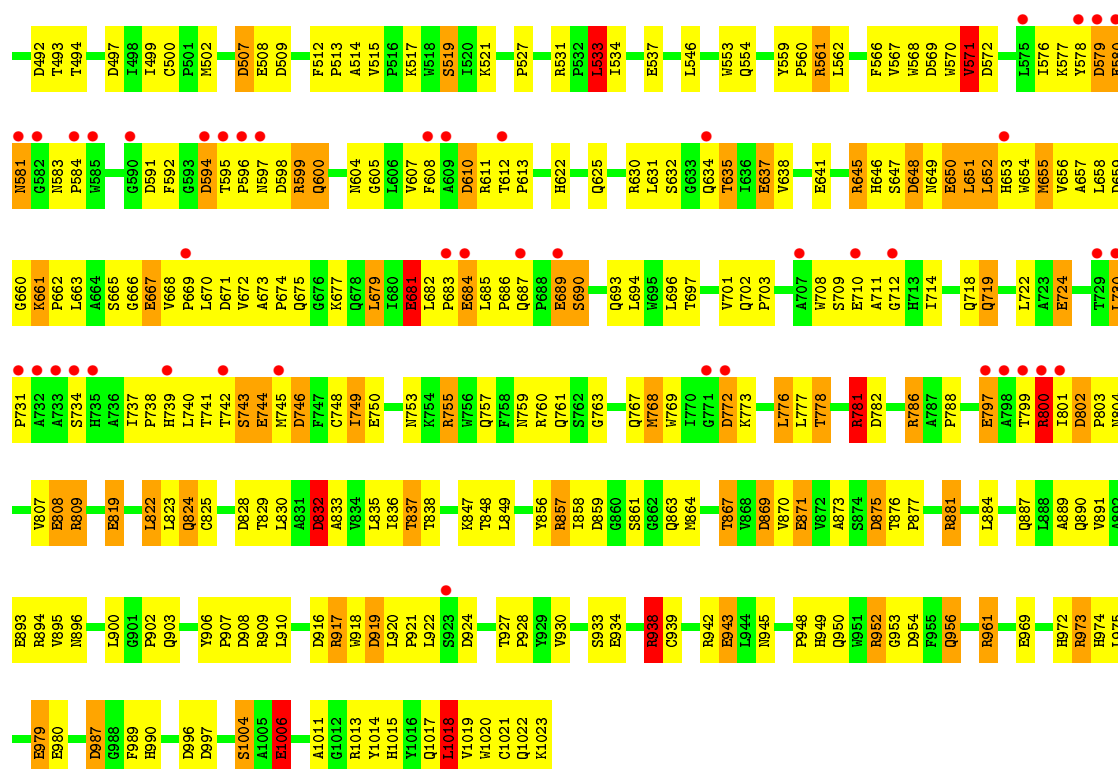
• Molecule 1: Beta-Galactosidase





• Molecule 1: Beta-Galactosidase





4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	107.60Å 207.30Å 510.30Å 90.00° 95.00° 90.00°	Depositor
Resolution (Å)	20.00 – 2.70 20.00 – 2.70	Depositor EDS
% Data completeness (in resolution range)	66.0 (20.00-2.70) 66.0 (20.00-2.70)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.59 (at 2.71Å)	Xtriage
Refinement program	TNT V. 5-E	Depositor
R, R_{free}	0.234 , (Not available) 0.211 , 0.211	Depositor DCC
R_{free} test set	1854 reflections (0.46%)	DCC
Wilson B-factor (Å ²)	29.8	Xtriage
Anisotropy	0.258	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.25 , 79.2	EDS
Estimated twinning fraction	0.017 for h,-k,-h-l	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Outliers	1 of 409961 reflections (0.000%)	Xtriage
F_o, F_c correlation	0.91	EDS
Total number of atoms	134528	wwPDB-VP
Average B, all atoms (Å ²)	40.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 8.52% 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, 0.375 respectively for untwinned datasets, and 0.333, 0.2 for perfectly twinned datasets.

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: NA, CME, MG, 2FL

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	1.11	57/8439 (0.7%)	1.47	139/11510 (1.2%)
1	B	1.11	55/8439 (0.7%)	1.47	137/11510 (1.2%)
1	C	1.11	56/8439 (0.7%)	1.47	142/11510 (1.2%)
1	D	1.11	56/8439 (0.7%)	1.47	140/11510 (1.2%)
1	E	1.11	55/8439 (0.7%)	1.47	138/11510 (1.2%)
1	F	1.11	56/8439 (0.7%)	1.47	142/11510 (1.2%)
1	G	1.11	56/8439 (0.7%)	1.47	139/11510 (1.2%)
1	H	1.11	56/8439 (0.7%)	1.47	139/11510 (1.2%)
1	I	1.11	56/8439 (0.7%)	1.47	141/11510 (1.2%)
1	J	1.11	56/8439 (0.7%)	1.47	139/11510 (1.2%)
1	K	1.11	55/8439 (0.7%)	1.47	139/11510 (1.2%)
1	L	1.11	56/8439 (0.7%)	1.47	139/11510 (1.2%)
1	M	1.11	56/8439 (0.7%)	1.47	141/11510 (1.2%)
1	N	1.11	56/8439 (0.7%)	1.47	141/11510 (1.2%)
1	O	1.11	56/8439 (0.7%)	1.47	140/11510 (1.2%)
1	P	1.11	55/8439 (0.7%)	1.47	143/11510 (1.2%)
All	All	1.11	893/135024 (0.7%)	1.47	2239/184160 (1.2%)

All (893) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	710	GLU	CD-OE2	7.97	1.34	1.25
1	N	710	GLU	CD-OE2	7.97	1.34	1.25
1	A	710	GLU	CD-OE2	7.95	1.34	1.25
1	F	710	GLU	CD-OE2	7.95	1.34	1.25
1	P	710	GLU	CD-OE2	7.94	1.34	1.25
1	G	710	GLU	CD-OE2	7.93	1.34	1.25
1	K	710	GLU	CD-OE2	7.92	1.34	1.25
1	H	710	GLU	CD-OE2	7.91	1.34	1.25
1	O	819	GLU	CD-OE2	7.91	1.34	1.25
1	D	710	GLU	CD-OE2	7.90	1.34	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	710	GLU	CD-OE2	7.90	1.34	1.25
1	P	744	GLU	CD-OE2	7.88	1.34	1.25
1	B	710	GLU	CD-OE2	7.88	1.34	1.25
1	M	710	GLU	CD-OE2	7.88	1.34	1.25
1	N	819	GLU	CD-OE2	7.88	1.34	1.25
1	M	819	GLU	CD-OE2	7.87	1.34	1.25
1	C	710	GLU	CD-OE2	7.87	1.34	1.25
1	I	710	GLU	CD-OE2	7.87	1.34	1.25
1	A	744	GLU	CD-OE2	7.86	1.34	1.25
1	J	710	GLU	CD-OE2	7.86	1.34	1.25
1	A	819	GLU	CD-OE2	7.86	1.34	1.25
1	E	819	GLU	CD-OE2	7.86	1.34	1.25
1	K	744	GLU	CD-OE2	7.85	1.34	1.25
1	I	744	GLU	CD-OE2	7.84	1.34	1.25
1	M	744	GLU	CD-OE2	7.84	1.34	1.25
1	O	710	GLU	CD-OE2	7.84	1.34	1.25
1	C	819	GLU	CD-OE2	7.83	1.34	1.25
1	J	744	GLU	CD-OE2	7.83	1.34	1.25
1	D	744	GLU	CD-OE2	7.83	1.34	1.25
1	K	819	GLU	CD-OE2	7.82	1.34	1.25
1	I	819	GLU	CD-OE2	7.82	1.34	1.25
1	F	819	GLU	CD-OE2	7.82	1.34	1.25
1	G	819	GLU	CD-OE2	7.81	1.34	1.25
1	B	744	GLU	CD-OE2	7.80	1.34	1.25
1	D	819	GLU	CD-OE2	7.80	1.34	1.25
1	L	744	GLU	CD-OE2	7.80	1.34	1.25
1	P	819	GLU	CD-OE2	7.80	1.34	1.25
1	F	744	GLU	CD-OE2	7.79	1.34	1.25
1	J	819	GLU	CD-OE2	7.79	1.34	1.25
1	H	744	GLU	CD-OE2	7.79	1.34	1.25
1	L	819	GLU	CD-OE2	7.79	1.34	1.25
1	O	744	GLU	CD-OE2	7.77	1.34	1.25
1	H	819	GLU	CD-OE2	7.77	1.34	1.25
1	B	819	GLU	CD-OE2	7.76	1.34	1.25
1	E	744	GLU	CD-OE2	7.76	1.34	1.25
1	N	744	GLU	CD-OE2	7.75	1.34	1.25
1	C	744	GLU	CD-OE2	7.75	1.34	1.25
1	C	281	GLU	CD-OE2	7.72	1.34	1.25
1	G	744	GLU	CD-OE2	7.71	1.34	1.25
1	H	281	GLU	CD-OE2	7.70	1.34	1.25
1	I	281	GLU	CD-OE2	7.70	1.34	1.25
1	M	281	GLU	CD-OE2	7.70	1.34	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	281	GLU	CD-OE2	7.69	1.34	1.25
1	L	281	GLU	CD-OE2	7.69	1.34	1.25
1	N	281	GLU	CD-OE2	7.69	1.34	1.25
1	O	281	GLU	CD-OE2	7.69	1.34	1.25
1	K	281	GLU	CD-OE2	7.68	1.34	1.25
1	J	281	GLU	CD-OE2	7.67	1.34	1.25
1	P	281	GLU	CD-OE2	7.67	1.34	1.25
1	D	281	GLU	CD-OE2	7.67	1.34	1.25
1	F	281	GLU	CD-OE2	7.65	1.34	1.25
1	A	281	GLU	CD-OE2	7.65	1.34	1.25
1	E	281	GLU	CD-OE2	7.64	1.34	1.25
1	G	281	GLU	CD-OE2	7.61	1.34	1.25
1	G	689	GLU	CD-OE2	7.55	1.33	1.25
1	J	689	GLU	CD-OE2	7.55	1.33	1.25
1	E	689	GLU	CD-OE2	7.52	1.33	1.25
1	N	689	GLU	CD-OE2	7.52	1.33	1.25
1	O	689	GLU	CD-OE2	7.51	1.33	1.25
1	D	689	GLU	CD-OE2	7.50	1.33	1.25
1	H	689	GLU	CD-OE2	7.49	1.33	1.25
1	F	689	GLU	CD-OE2	7.48	1.33	1.25
1	B	689	GLU	CD-OE2	7.47	1.33	1.25
1	P	689	GLU	CD-OE2	7.47	1.33	1.25
1	A	689	GLU	CD-OE2	7.47	1.33	1.25
1	L	689	GLU	CD-OE2	7.47	1.33	1.25
1	K	689	GLU	CD-OE2	7.46	1.33	1.25
1	C	689	GLU	CD-OE2	7.45	1.33	1.25
1	M	689	GLU	CD-OE2	7.45	1.33	1.25
1	M	249	GLU	CD-OE2	7.44	1.33	1.25
1	L	249	GLU	CD-OE2	7.42	1.33	1.25
1	F	249	GLU	CD-OE2	7.41	1.33	1.25
1	A	249	GLU	CD-OE2	7.41	1.33	1.25
1	B	249	GLU	CD-OE2	7.41	1.33	1.25
1	G	249	GLU	CD-OE2	7.40	1.33	1.25
1	N	249	GLU	CD-OE2	7.40	1.33	1.25
1	O	249	GLU	CD-OE2	7.40	1.33	1.25
1	I	689	GLU	CD-OE2	7.39	1.33	1.25
1	C	249	GLU	CD-OE2	7.38	1.33	1.25
1	I	249	GLU	CD-OE2	7.38	1.33	1.25
1	E	249	GLU	CD-OE2	7.37	1.33	1.25
1	D	249	GLU	CD-OE2	7.37	1.33	1.25
1	H	249	GLU	CD-OE2	7.36	1.33	1.25
1	J	249	GLU	CD-OE2	7.36	1.33	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	249	GLU	CD-OE2	7.33	1.33	1.25
1	P	249	GLU	CD-OE2	7.33	1.33	1.25
1	K	131	GLU	CD-OE2	7.29	1.33	1.25
1	H	131	GLU	CD-OE2	7.28	1.33	1.25
1	I	131	GLU	CD-OE2	7.24	1.33	1.25
1	J	131	GLU	CD-OE2	7.24	1.33	1.25
1	O	131	GLU	CD-OE2	7.23	1.33	1.25
1	F	131	GLU	CD-OE2	7.23	1.33	1.25
1	G	131	GLU	CD-OE2	7.23	1.33	1.25
1	L	75	GLU	CD-OE2	7.23	1.33	1.25
1	E	75	GLU	CD-OE2	7.22	1.33	1.25
1	M	131	GLU	CD-OE2	7.22	1.33	1.25
1	C	131	GLU	CD-OE2	7.22	1.33	1.25
1	L	131	GLU	CD-OE2	7.21	1.33	1.25
1	A	131	GLU	CD-OE2	7.20	1.33	1.25
1	P	131	GLU	CD-OE2	7.20	1.33	1.25
1	E	131	GLU	CD-OE2	7.20	1.33	1.25
1	F	75	GLU	CD-OE2	7.20	1.33	1.25
1	B	131	GLU	CD-OE2	7.19	1.33	1.25
1	N	181	GLU	CD-OE2	7.19	1.33	1.25
1	D	131	GLU	CD-OE2	7.19	1.33	1.25
1	N	131	GLU	CD-OE2	7.18	1.33	1.25
1	H	75	GLU	CD-OE2	7.18	1.33	1.25
1	L	181	GLU	CD-OE2	7.17	1.33	1.25
1	C	75	GLU	CD-OE2	7.17	1.33	1.25
1	B	181	GLU	CD-OE2	7.15	1.33	1.25
1	A	75	GLU	CD-OE2	7.15	1.33	1.25
1	B	75	GLU	CD-OE2	7.15	1.33	1.25
1	I	75	GLU	CD-OE2	7.14	1.33	1.25
1	O	181	GLU	CD-OE2	7.14	1.33	1.25
1	D	75	GLU	CD-OE2	7.14	1.33	1.25
1	K	75	GLU	CD-OE2	7.14	1.33	1.25
1	D	181	GLU	CD-OE2	7.13	1.33	1.25
1	G	75	GLU	CD-OE2	7.13	1.33	1.25
1	O	75	GLU	CD-OE2	7.13	1.33	1.25
1	H	580	GLU	CD-OE2	7.12	1.33	1.25
1	C	181	GLU	CD-OE2	7.12	1.33	1.25
1	E	181	GLU	CD-OE2	7.12	1.33	1.25
1	A	181	GLU	CD-OE2	7.12	1.33	1.25
1	M	181	GLU	CD-OE2	7.12	1.33	1.25
1	E	580	GLU	CD-OE2	7.11	1.33	1.25
1	J	75	GLU	CD-OE2	7.11	1.33	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	580	GLU	CD-OE2	7.11	1.33	1.25
1	P	580	GLU	CD-OE2	7.11	1.33	1.25
1	C	580	GLU	CD-OE2	7.11	1.33	1.25
1	K	181	GLU	CD-OE2	7.10	1.33	1.25
1	M	75	GLU	CD-OE2	7.10	1.33	1.25
1	I	580	GLU	CD-OE2	7.10	1.33	1.25
1	G	580	GLU	CD-OE2	7.09	1.33	1.25
1	G	181	GLU	CD-OE2	7.09	1.33	1.25
1	P	181	GLU	CD-OE2	7.09	1.33	1.25
1	D	580	GLU	CD-OE2	7.08	1.33	1.25
1	J	181	GLU	CD-OE2	7.08	1.33	1.25
1	N	75	GLU	CD-OE2	7.08	1.33	1.25
1	A	580	GLU	CD-OE2	7.08	1.33	1.25
1	B	580	GLU	CD-OE2	7.08	1.33	1.25
1	M	580	GLU	CD-OE2	7.08	1.33	1.25
1	P	75	GLU	CD-OE2	7.07	1.33	1.25
1	L	580	GLU	CD-OE2	7.07	1.33	1.25
1	O	580	GLU	CD-OE2	7.07	1.33	1.25
1	H	181	GLU	CD-OE2	7.06	1.33	1.25
1	I	181	GLU	CD-OE2	7.05	1.33	1.25
1	N	580	GLU	CD-OE2	7.05	1.33	1.25
1	F	181	GLU	CD-OE2	7.04	1.33	1.25
1	J	580	GLU	CD-OE2	7.04	1.33	1.25
1	C	277	GLU	CD-OE2	7.03	1.33	1.25
1	F	580	GLU	CD-OE2	7.02	1.33	1.25
1	N	277	GLU	CD-OE2	7.02	1.33	1.25
1	O	277	GLU	CD-OE2	7.01	1.33	1.25
1	H	277	GLU	CD-OE2	6.99	1.33	1.25
1	P	277	GLU	CD-OE2	6.98	1.33	1.25
1	M	277	GLU	CD-OE2	6.98	1.33	1.25
1	F	277	GLU	CD-OE2	6.96	1.33	1.25
1	B	277	GLU	CD-OE2	6.96	1.33	1.25
1	A	277	GLU	CD-OE2	6.96	1.33	1.25
1	K	277	GLU	CD-OE2	6.95	1.33	1.25
1	J	277	GLU	CD-OE2	6.94	1.33	1.25
1	I	277	GLU	CD-OE2	6.94	1.33	1.25
1	L	277	GLU	CD-OE2	6.94	1.33	1.25
1	O	893	GLU	CD-OE2	6.94	1.33	1.25
1	F	893	GLU	CD-OE2	6.94	1.33	1.25
1	D	277	GLU	CD-OE2	6.93	1.33	1.25
1	E	893	GLU	CD-OE2	6.92	1.33	1.25
1	E	277	GLU	CD-OE2	6.92	1.33	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	893	GLU	CD-OE2	6.91	1.33	1.25
1	C	893	GLU	CD-OE2	6.91	1.33	1.25
1	M	893	GLU	CD-OE2	6.91	1.33	1.25
1	G	277	GLU	CD-OE2	6.91	1.33	1.25
1	D	893	GLU	CD-OE2	6.91	1.33	1.25
1	H	893	GLU	CD-OE2	6.91	1.33	1.25
1	K	893	GLU	CD-OE2	6.90	1.33	1.25
1	P	893	GLU	CD-OE2	6.89	1.33	1.25
1	L	893	GLU	CD-OE2	6.88	1.33	1.25
1	B	893	GLU	CD-OE2	6.88	1.33	1.25
1	G	893	GLU	CD-OE2	6.88	1.33	1.25
1	I	893	GLU	CD-OE2	6.88	1.33	1.25
1	N	893	GLU	CD-OE2	6.86	1.33	1.25
1	O	684	GLU	CD-OE2	6.85	1.33	1.25
1	P	684	GLU	CD-OE2	6.83	1.33	1.25
1	K	136	GLU	CD-OE2	6.83	1.33	1.25
1	I	136	GLU	CD-OE2	6.83	1.33	1.25
1	E	136	GLU	CD-OE2	6.83	1.33	1.25
1	M	684	GLU	CD-OE2	6.82	1.33	1.25
1	J	893	GLU	CD-OE2	6.82	1.33	1.25
1	P	136	GLU	CD-OE2	6.82	1.33	1.25
1	B	136	GLU	CD-OE2	6.82	1.33	1.25
1	D	684	GLU	CD-OE2	6.81	1.33	1.25
1	E	667	GLU	CD-OE2	6.81	1.33	1.25
1	A	684	GLU	CD-OE2	6.80	1.33	1.25
1	F	684	GLU	CD-OE2	6.80	1.33	1.25
1	F	136	GLU	CD-OE2	6.79	1.33	1.25
1	O	980	GLU	CD-OE2	6.79	1.33	1.25
1	A	681	GLU	CD-OE2	6.79	1.33	1.25
1	F	980	GLU	CD-OE2	6.79	1.33	1.25
1	G	136	GLU	CD-OE2	6.79	1.33	1.25
1	H	684	GLU	CD-OE2	6.79	1.33	1.25
1	N	980	GLU	CD-OE2	6.79	1.33	1.25
1	O	136	GLU	CD-OE2	6.79	1.33	1.25
1	D	980	GLU	CD-OE2	6.79	1.33	1.25
1	I	684	GLU	CD-OE2	6.79	1.33	1.25
1	C	136	GLU	CD-OE2	6.79	1.33	1.25
1	D	136	GLU	CD-OE2	6.79	1.33	1.25
1	B	681	GLU	CD-OE2	6.78	1.33	1.25
1	M	136	GLU	CD-OE2	6.78	1.33	1.25
1	J	684	GLU	CD-OE2	6.78	1.33	1.25
1	N	684	GLU	CD-OE2	6.78	1.33	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	980	GLU	CD-OE2	6.78	1.33	1.25
1	L	684	GLU	CD-OE2	6.78	1.33	1.25
1	K	684	GLU	CD-OE2	6.77	1.33	1.25
1	M	980	GLU	CD-OE2	6.77	1.33	1.25
1	E	681	GLU	CD-OE2	6.77	1.33	1.25
1	L	980	GLU	CD-OE2	6.77	1.33	1.25
1	L	136	GLU	CD-OE2	6.76	1.33	1.25
1	N	136	GLU	CD-OE2	6.76	1.33	1.25
1	A	808	GLU	CD-OE2	6.76	1.33	1.25
1	C	808	GLU	CD-OE2	6.76	1.33	1.25
1	J	136	GLU	CD-OE2	6.76	1.33	1.25
1	B	980	GLU	CD-OE2	6.76	1.33	1.25
1	H	980	GLU	CD-OE2	6.76	1.33	1.25
1	M	681	GLU	CD-OE2	6.76	1.33	1.25
1	H	136	GLU	CD-OE2	6.76	1.33	1.25
1	C	684	GLU	CD-OE2	6.76	1.33	1.25
1	G	980	GLU	CD-OE2	6.76	1.33	1.25
1	K	667	GLU	CD-OE2	6.76	1.33	1.25
1	J	681	GLU	CD-OE2	6.75	1.33	1.25
1	O	681	GLU	CD-OE2	6.75	1.33	1.25
1	F	681	GLU	CD-OE2	6.75	1.33	1.25
1	A	980	GLU	CD-OE2	6.75	1.33	1.25
1	E	684	GLU	CD-OE2	6.75	1.33	1.25
1	B	684	GLU	CD-OE2	6.74	1.33	1.25
1	G	684	GLU	CD-OE2	6.74	1.33	1.25
1	L	681	GLU	CD-OE2	6.74	1.33	1.25
1	N	667	GLU	CD-OE2	6.74	1.33	1.25
1	P	808	GLU	CD-OE2	6.74	1.33	1.25
1	J	667	GLU	CD-OE2	6.73	1.33	1.25
1	M	667	GLU	CD-OE2	6.73	1.33	1.25
1	M	808	GLU	CD-OE2	6.73	1.33	1.25
1	D	667	GLU	CD-OE2	6.73	1.33	1.25
1	H	667	GLU	CD-OE2	6.73	1.33	1.25
1	K	681	GLU	CD-OE2	6.73	1.33	1.25
1	D	264	GLU	CD-OE2	6.72	1.33	1.25
1	E	808	GLU	CD-OE2	6.72	1.33	1.25
1	F	667	GLU	CD-OE2	6.72	1.33	1.25
1	K	980	GLU	CD-OE2	6.72	1.33	1.25
1	L	667	GLU	CD-OE2	6.72	1.33	1.25
1	J	980	GLU	CD-OE2	6.72	1.33	1.25
1	P	980	GLU	CD-OE2	6.72	1.33	1.25
1	C	681	GLU	CD-OE2	6.71	1.33	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	P	667	GLU	CD-OE2	6.71	1.33	1.25
1	B	808	GLU	CD-OE2	6.71	1.33	1.25
1	K	264	GLU	CD-OE2	6.71	1.33	1.25
1	A	667	GLU	CD-OE2	6.71	1.33	1.25
1	N	264	GLU	CD-OE2	6.70	1.33	1.25
1	N	681	GLU	CD-OE2	6.70	1.33	1.25
1	I	980	GLU	CD-OE2	6.70	1.33	1.25
1	B	667	GLU	CD-OE2	6.70	1.33	1.25
1	F	264	GLU	CD-OE2	6.70	1.33	1.25
1	P	681	GLU	CD-OE2	6.70	1.33	1.25
1	I	681	GLU	CD-OE2	6.69	1.33	1.25
1	A	136	GLU	CD-OE2	6.69	1.33	1.25
1	O	667	GLU	CD-OE2	6.69	1.33	1.25
1	D	681	GLU	CD-OE2	6.69	1.33	1.25
1	E	980	GLU	CD-OE2	6.69	1.33	1.25
1	G	681	GLU	CD-OE2	6.69	1.33	1.25
1	H	264	GLU	CD-OE2	6.69	1.33	1.25
1	L	264	GLU	CD-OE2	6.69	1.33	1.25
1	O	808	GLU	CD-OE2	6.69	1.33	1.25
1	I	667	GLU	CD-OE2	6.68	1.33	1.25
1	J	264	GLU	CD-OE2	6.68	1.33	1.25
1	G	264	GLU	CD-OE2	6.68	1.32	1.25
1	H	681	GLU	CD-OE2	6.67	1.32	1.25
1	I	808	GLU	CD-OE2	6.67	1.32	1.25
1	G	667	GLU	CD-OE2	6.67	1.32	1.25
1	K	808	GLU	CD-OE2	6.67	1.32	1.25
1	L	808	GLU	CD-OE2	6.66	1.32	1.25
1	N	808	GLU	CD-OE2	6.66	1.32	1.25
1	D	808	GLU	CD-OE2	6.66	1.32	1.25
1	F	808	GLU	CD-OE2	6.65	1.32	1.25
1	C	667	GLU	CD-OE2	6.64	1.32	1.25
1	H	808	GLU	CD-OE2	6.64	1.32	1.25
1	O	264	GLU	CD-OE2	6.64	1.32	1.25
1	P	264	GLU	CD-OE2	6.64	1.32	1.25
1	C	264	GLU	CD-OE2	6.63	1.32	1.25
1	J	808	GLU	CD-OE2	6.63	1.32	1.25
1	B	264	GLU	CD-OE2	6.63	1.32	1.25
1	G	808	GLU	CD-OE2	6.63	1.32	1.25
1	I	264	GLU	CD-OE2	6.62	1.32	1.25
1	M	264	GLU	CD-OE2	6.62	1.32	1.25
1	I	57	GLU	CD-OE2	6.61	1.32	1.25
1	E	264	GLU	CD-OE2	6.61	1.32	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	264	GLU	CD-OE2	6.61	1.32	1.25
1	P	57	GLU	CD-OE2	6.60	1.32	1.25
1	N	57	GLU	CD-OE2	6.60	1.32	1.25
1	M	57	GLU	CD-OE2	6.60	1.32	1.25
1	B	57	GLU	CD-OE2	6.59	1.32	1.25
1	O	57	GLU	CD-OE2	6.58	1.32	1.25
1	E	57	GLU	CD-OE2	6.58	1.32	1.25
1	H	57	GLU	CD-OE2	6.57	1.32	1.25
1	F	57	GLU	CD-OE2	6.57	1.32	1.25
1	K	57	GLU	CD-OE2	6.57	1.32	1.25
1	K	117	GLU	CD-OE2	6.56	1.32	1.25
1	L	57	GLU	CD-OE2	6.56	1.32	1.25
1	A	57	GLU	CD-OE2	6.55	1.32	1.25
1	B	117	GLU	CD-OE2	6.55	1.32	1.25
1	D	57	GLU	CD-OE2	6.55	1.32	1.25
1	G	57	GLU	CD-OE2	6.54	1.32	1.25
1	C	117	GLU	CD-OE2	6.54	1.32	1.25
1	M	117	GLU	CD-OE2	6.54	1.32	1.25
1	J	57	GLU	CD-OE2	6.53	1.32	1.25
1	C	296	GLU	CD-OE2	6.53	1.32	1.25
1	F	117	GLU	CD-OE2	6.53	1.32	1.25
1	O	117	GLU	CD-OE2	6.53	1.32	1.25
1	C	57	GLU	CD-OE2	6.53	1.32	1.25
1	G	296	GLU	CD-OE2	6.52	1.32	1.25
1	P	117	GLU	CD-OE2	6.51	1.32	1.25
1	E	117	GLU	CD-OE2	6.51	1.32	1.25
1	H	296	GLU	CD-OE2	6.51	1.32	1.25
1	A	117	GLU	CD-OE2	6.51	1.32	1.25
1	D	117	GLU	CD-OE2	6.51	1.32	1.25
1	H	416	GLU	CD-OE2	6.51	1.32	1.25
1	J	416	GLU	CD-OE2	6.50	1.32	1.25
1	F	198	GLU	CD-OE2	6.50	1.32	1.25
1	K	416	GLU	CD-OE2	6.50	1.32	1.25
1	L	416	GLU	CD-OE2	6.50	1.32	1.25
1	G	117	GLU	CD-OE2	6.50	1.32	1.25
1	I	296	GLU	CD-OE2	6.50	1.32	1.25
1	O	416	GLU	CD-OE2	6.50	1.32	1.25
1	N	416	GLU	CD-OE2	6.50	1.32	1.25
1	H	198	GLU	CD-OE2	6.50	1.32	1.25
1	H	117	GLU	CD-OE2	6.49	1.32	1.25
1	A	416	GLU	CD-OE2	6.49	1.32	1.25
1	D	296	GLU	CD-OE2	6.49	1.32	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	296	GLU	CD-OE2	6.48	1.32	1.25
1	B	296	GLU	CD-OE2	6.48	1.32	1.25
1	E	296	GLU	CD-OE2	6.47	1.32	1.25
1	I	117	GLU	CD-OE2	6.47	1.32	1.25
1	G	416	GLU	CD-OE2	6.47	1.32	1.25
1	O	296	GLU	CD-OE2	6.47	1.32	1.25
1	J	117	GLU	CD-OE2	6.47	1.32	1.25
1	M	416	GLU	CD-OE2	6.47	1.32	1.25
1	L	198	GLU	CD-OE2	6.46	1.32	1.25
1	P	416	GLU	CD-OE2	6.46	1.32	1.25
1	P	979	GLU	CD-OE2	6.46	1.32	1.25
1	K	198	GLU	CD-OE2	6.46	1.32	1.25
1	P	296	GLU	CD-OE2	6.46	1.32	1.25
1	M	296	GLU	CD-OE2	6.46	1.32	1.25
1	N	117	GLU	CD-OE2	6.45	1.32	1.25
1	C	416	GLU	CD-OE2	6.45	1.32	1.25
1	D	416	GLU	CD-OE2	6.45	1.32	1.25
1	A	296	GLU	CD-OE2	6.45	1.32	1.25
1	C	979	GLU	CD-OE2	6.44	1.32	1.25
1	J	296	GLU	CD-OE2	6.44	1.32	1.25
1	G	198	GLU	CD-OE2	6.44	1.32	1.25
1	K	296	GLU	CD-OE2	6.44	1.32	1.25
1	M	198	GLU	CD-OE2	6.44	1.32	1.25
1	I	416	GLU	CD-OE2	6.44	1.32	1.25
1	L	117	GLU	CD-OE2	6.44	1.32	1.25
1	B	979	GLU	CD-OE2	6.43	1.32	1.25
1	E	198	GLU	CD-OE2	6.43	1.32	1.25
1	L	979	GLU	CD-OE2	6.43	1.32	1.25
1	H	979	GLU	CD-OE2	6.43	1.32	1.25
1	B	416	GLU	CD-OE2	6.43	1.32	1.25
1	F	296	GLU	CD-OE2	6.43	1.32	1.25
1	I	198	GLU	CD-OE2	6.43	1.32	1.25
1	N	979	GLU	CD-OE2	6.43	1.32	1.25
1	D	198	GLU	CD-OE2	6.42	1.32	1.25
1	A	979	GLU	CD-OE2	6.42	1.32	1.25
1	A	650	GLU	CD-OE2	6.42	1.32	1.25
1	E	416	GLU	CD-OE2	6.42	1.32	1.25
1	E	979	GLU	CD-OE2	6.42	1.32	1.25
1	F	979	GLU	CD-OE2	6.42	1.32	1.25
1	J	979	GLU	CD-OE2	6.41	1.32	1.25
1	P	198	GLU	CD-OE2	6.41	1.32	1.25
1	J	198	GLU	CD-OE2	6.41	1.32	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	296	GLU	CD-OE2	6.41	1.32	1.25
1	B	198	GLU	CD-OE2	6.41	1.32	1.25
1	G	979	GLU	CD-OE2	6.40	1.32	1.25
1	D	979	GLU	CD-OE2	6.38	1.32	1.25
1	I	650	GLU	CD-OE2	6.38	1.32	1.25
1	K	650	GLU	CD-OE2	6.38	1.32	1.25
1	O	979	GLU	CD-OE2	6.38	1.32	1.25
1	B	508	GLU	CD-OE2	6.38	1.32	1.25
1	F	416	GLU	CD-OE2	6.38	1.32	1.25
1	K	508	GLU	CD-OE2	6.37	1.32	1.25
1	A	198	GLU	CD-OE2	6.37	1.32	1.25
1	H	650	GLU	CD-OE2	6.37	1.32	1.25
1	M	979	GLU	CD-OE2	6.37	1.32	1.25
1	O	198	GLU	CD-OE2	6.37	1.32	1.25
1	H	67	GLU	CD-OE2	6.37	1.32	1.25
1	G	508	GLU	CD-OE2	6.36	1.32	1.25
1	C	198	GLU	CD-OE2	6.36	1.32	1.25
1	A	67	GLU	CD-OE2	6.36	1.32	1.25
1	D	650	GLU	CD-OE2	6.36	1.32	1.25
1	I	979	GLU	CD-OE2	6.36	1.32	1.25
1	L	650	GLU	CD-OE2	6.36	1.32	1.25
1	F	650	GLU	CD-OE2	6.36	1.32	1.25
1	N	198	GLU	CD-OE2	6.35	1.32	1.25
1	I	508	GLU	CD-OE2	6.35	1.32	1.25
1	C	67	GLU	CD-OE2	6.34	1.32	1.25
1	E	650	GLU	CD-OE2	6.34	1.32	1.25
1	K	979	GLU	CD-OE2	6.34	1.32	1.25
1	N	67	GLU	CD-OE2	6.34	1.32	1.25
1	A	508	GLU	CD-OE2	6.34	1.32	1.25
1	N	650	GLU	CD-OE2	6.34	1.32	1.25
1	B	650	GLU	CD-OE2	6.33	1.32	1.25
1	E	508	GLU	CD-OE2	6.33	1.32	1.25
1	P	650	GLU	CD-OE2	6.33	1.32	1.25
1	J	241	GLU	CD-OE2	6.33	1.32	1.25
1	G	67	GLU	CD-OE2	6.33	1.32	1.25
1	L	508	GLU	CD-OE2	6.33	1.32	1.25
1	O	241	GLU	CD-OE2	6.33	1.32	1.25
1	K	67	GLU	CD-OE2	6.32	1.32	1.25
1	M	650	GLU	CD-OE2	6.32	1.32	1.25
1	C	508	GLU	CD-OE2	6.32	1.32	1.25
1	H	508	GLU	CD-OE2	6.32	1.32	1.25
1	N	508	GLU	CD-OE2	6.32	1.32	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	508	GLU	CD-OE2	6.32	1.32	1.25
1	K	241	GLU	CD-OE2	6.31	1.32	1.25
1	L	67	GLU	CD-OE2	6.31	1.32	1.25
1	O	67	GLU	CD-OE2	6.31	1.32	1.25
1	O	508	GLU	CD-OE2	6.31	1.32	1.25
1	M	67	GLU	CD-OE2	6.31	1.32	1.25
1	M	508	GLU	CD-OE2	6.31	1.32	1.25
1	J	508	GLU	CD-OE2	6.31	1.32	1.25
1	I	241	GLU	CD-OE2	6.30	1.32	1.25
1	G	241	GLU	CD-OE2	6.30	1.32	1.25
1	B	67	GLU	CD-OE2	6.30	1.32	1.25
1	D	508	GLU	CD-OE2	6.30	1.32	1.25
1	P	508	GLU	CD-OE2	6.30	1.32	1.25
1	N	241	GLU	CD-OE2	6.29	1.32	1.25
1	O	650	GLU	CD-OE2	6.29	1.32	1.25
1	J	67	GLU	CD-OE2	6.29	1.32	1.25
1	D	241	GLU	CD-OE2	6.29	1.32	1.25
1	F	67	GLU	CD-OE2	6.29	1.32	1.25
1	A	1006	GLU	CD-OE2	6.29	1.32	1.25
1	I	969	GLU	CD-OE2	6.28	1.32	1.25
1	P	67	GLU	CD-OE2	6.28	1.32	1.25
1	D	67	GLU	CD-OE2	6.28	1.32	1.25
1	H	241	GLU	CD-OE2	6.28	1.32	1.25
1	P	241	GLU	CD-OE2	6.28	1.32	1.25
1	K	969	GLU	CD-OE2	6.28	1.32	1.25
1	A	241	GLU	CD-OE2	6.27	1.32	1.25
1	F	241	GLU	CD-OE2	6.27	1.32	1.25
1	I	67	GLU	CD-OE2	6.27	1.32	1.25
1	G	969	GLU	CD-OE2	6.26	1.32	1.25
1	P	969	GLU	CD-OE2	6.26	1.32	1.25
1	C	650	GLU	CD-OE2	6.26	1.32	1.25
1	G	650	GLU	CD-OE2	6.26	1.32	1.25
1	C	969	GLU	CD-OE2	6.25	1.32	1.25
1	L	241	GLU	CD-OE2	6.25	1.32	1.25
1	J	650	GLU	CD-OE2	6.25	1.32	1.25
1	O	969	GLU	CD-OE2	6.25	1.32	1.25
1	E	969	GLU	CD-OE2	6.25	1.32	1.25
1	J	1006	GLU	CD-OE2	6.25	1.32	1.25
1	P	1006	GLU	CD-OE2	6.25	1.32	1.25
1	E	67	GLU	CD-OE2	6.24	1.32	1.25
1	F	969	GLU	CD-OE2	6.24	1.32	1.25
1	E	241	GLU	CD-OE2	6.24	1.32	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	1006	GLU	CD-OE2	6.23	1.32	1.25
1	J	969	GLU	CD-OE2	6.23	1.32	1.25
1	H	1006	GLU	CD-OE2	6.23	1.32	1.25
1	B	969	GLU	CD-OE2	6.22	1.32	1.25
1	H	969	GLU	CD-OE2	6.22	1.32	1.25
1	C	241	GLU	CD-OE2	6.22	1.32	1.25
1	C	1006	GLU	CD-OE2	6.22	1.32	1.25
1	I	1006	GLU	CD-OE2	6.22	1.32	1.25
1	F	1006	GLU	CD-OE2	6.22	1.32	1.25
1	O	1006	GLU	CD-OE2	6.22	1.32	1.25
1	D	1006	GLU	CD-OE2	6.21	1.32	1.25
1	G	1006	GLU	CD-OE2	6.21	1.32	1.25
1	L	1006	GLU	CD-OE2	6.21	1.32	1.25
1	E	934	GLU	CD-OE2	6.20	1.32	1.25
1	A	969	GLU	CD-OE2	6.19	1.32	1.25
1	L	969	GLU	CD-OE2	6.19	1.32	1.25
1	M	241	GLU	CD-OE2	6.19	1.32	1.25
1	N	969	GLU	CD-OE2	6.19	1.32	1.25
1	B	241	GLU	CD-OE2	6.19	1.32	1.25
1	D	969	GLU	CD-OE2	6.18	1.32	1.25
1	O	934	GLU	CD-OE2	6.18	1.32	1.25
1	K	1006	GLU	CD-OE2	6.17	1.32	1.25
1	C	934	GLU	CD-OE2	6.17	1.32	1.25
1	G	934	GLU	CD-OE2	6.16	1.32	1.25
1	B	1006	GLU	CD-OE2	6.16	1.32	1.25
1	M	1006	GLU	CD-OE2	6.16	1.32	1.25
1	P	934	GLU	CD-OE2	6.16	1.32	1.25
1	N	1006	GLU	CD-OE2	6.16	1.32	1.25
1	I	934	GLU	CD-OE2	6.15	1.32	1.25
1	B	934	GLU	CD-OE2	6.15	1.32	1.25
1	J	934	GLU	CD-OE2	6.14	1.32	1.25
1	F	934	GLU	CD-OE2	6.14	1.32	1.25
1	M	969	GLU	CD-OE2	6.14	1.32	1.25
1	H	934	GLU	CD-OE2	6.14	1.32	1.25
1	L	934	GLU	CD-OE2	6.13	1.32	1.25
1	M	934	GLU	CD-OE2	6.13	1.32	1.25
1	K	934	GLU	CD-OE2	6.12	1.32	1.25
1	D	934	GLU	CD-OE2	6.10	1.32	1.25
1	D	637	GLU	CD-OE2	6.10	1.32	1.25
1	M	637	GLU	CD-OE2	6.09	1.32	1.25
1	O	637	GLU	CD-OE2	6.09	1.32	1.25
1	C	637	GLU	CD-OE2	6.09	1.32	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	637	GLU	CD-OE2	6.09	1.32	1.25
1	A	934	GLU	CD-OE2	6.08	1.32	1.25
1	B	637	GLU	CD-OE2	6.08	1.32	1.25
1	N	934	GLU	CD-OE2	6.08	1.32	1.25
1	G	797	GLU	CD-OE2	6.08	1.32	1.25
1	L	797	GLU	CD-OE2	6.07	1.32	1.25
1	K	797	GLU	CD-OE2	6.07	1.32	1.25
1	E	797	GLU	CD-OE2	6.07	1.32	1.25
1	F	637	GLU	CD-OE2	6.06	1.32	1.25
1	I	797	GLU	CD-OE2	6.06	1.32	1.25
1	E	637	GLU	CD-OE2	6.05	1.32	1.25
1	H	797	GLU	CD-OE2	6.05	1.32	1.25
1	N	797	GLU	CD-OE2	6.05	1.32	1.25
1	C	797	GLU	CD-OE2	6.04	1.32	1.25
1	H	637	GLU	CD-OE2	6.04	1.32	1.25
1	P	797	GLU	CD-OE2	6.04	1.32	1.25
1	J	797	GLU	CD-OE2	6.04	1.32	1.25
1	P	637	GLU	CD-OE2	6.04	1.32	1.25
1	A	637	GLU	CD-OE2	6.04	1.32	1.25
1	M	797	GLU	CD-OE2	6.03	1.32	1.25
1	L	637	GLU	CD-OE2	6.03	1.32	1.25
1	F	797	GLU	CD-OE2	6.03	1.32	1.25
1	K	637	GLU	CD-OE2	6.02	1.32	1.25
1	A	797	GLU	CD-OE2	6.01	1.32	1.25
1	I	637	GLU	CD-OE2	6.01	1.32	1.25
1	D	797	GLU	CD-OE2	6.01	1.32	1.25
1	J	637	GLU	CD-OE2	6.00	1.32	1.25
1	G	724	GLU	CD-OE2	6.00	1.32	1.25
1	O	797	GLU	CD-OE2	5.99	1.32	1.25
1	G	637	GLU	CD-OE2	5.99	1.32	1.25
1	O	358	GLU	CD-OE2	5.98	1.32	1.25
1	B	797	GLU	CD-OE2	5.96	1.32	1.25
1	E	724	GLU	CD-OE2	5.96	1.32	1.25
1	N	358	GLU	CD-OE2	5.96	1.32	1.25
1	N	724	GLU	CD-OE2	5.96	1.32	1.25
1	A	358	GLU	CD-OE2	5.96	1.32	1.25
1	B	358	GLU	CD-OE2	5.96	1.32	1.25
1	H	358	GLU	CD-OE2	5.96	1.32	1.25
1	H	724	GLU	CD-OE2	5.95	1.32	1.25
1	K	358	GLU	CD-OE2	5.95	1.32	1.25
1	L	724	GLU	CD-OE2	5.95	1.32	1.25
1	A	724	GLU	CD-OE2	5.94	1.32	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	724	GLU	CD-OE2	5.94	1.32	1.25
1	P	724	GLU	CD-OE2	5.94	1.32	1.25
1	O	724	GLU	CD-OE2	5.94	1.32	1.25
1	J	724	GLU	CD-OE2	5.93	1.32	1.25
1	D	724	GLU	CD-OE2	5.93	1.32	1.25
1	J	438	GLU	CD-OE2	5.93	1.32	1.25
1	M	358	GLU	CD-OE2	5.93	1.32	1.25
1	P	358	GLU	CD-OE2	5.93	1.32	1.25
1	D	358	GLU	CD-OE2	5.92	1.32	1.25
1	E	358	GLU	CD-OE2	5.92	1.32	1.25
1	G	358	GLU	CD-OE2	5.92	1.32	1.25
1	H	438	GLU	CD-OE2	5.92	1.32	1.25
1	M	724	GLU	CD-OE2	5.92	1.32	1.25
1	J	358	GLU	CD-OE2	5.91	1.32	1.25
1	C	358	GLU	CD-OE2	5.91	1.32	1.25
1	G	438	GLU	CD-OE2	5.90	1.32	1.25
1	O	438	GLU	CD-OE2	5.90	1.32	1.25
1	I	724	GLU	CD-OE2	5.90	1.32	1.25
1	P	438	GLU	CD-OE2	5.89	1.32	1.25
1	L	358	GLU	CD-OE2	5.89	1.32	1.25
1	C	724	GLU	CD-OE2	5.88	1.32	1.25
1	I	358	GLU	CD-OE2	5.88	1.32	1.25
1	B	724	GLU	CD-OE2	5.88	1.32	1.25
1	K	438	GLU	CD-OE2	5.87	1.32	1.25
1	E	438	GLU	CD-OE2	5.87	1.32	1.25
1	F	358	GLU	CD-OE2	5.86	1.32	1.25
1	C	438	GLU	CD-OE2	5.86	1.32	1.25
1	D	438	GLU	CD-OE2	5.85	1.32	1.25
1	F	724	GLU	CD-OE2	5.84	1.32	1.25
1	I	871	GLU	CD-OE2	5.83	1.32	1.25
1	I	438	GLU	CD-OE2	5.83	1.32	1.25
1	M	438	GLU	CD-OE2	5.83	1.32	1.25
1	B	750	GLU	CD-OE2	5.82	1.32	1.25
1	D	487	GLU	CD-OE2	5.82	1.32	1.25
1	A	438	GLU	CD-OE2	5.82	1.32	1.25
1	K	750	GLU	CD-OE2	5.82	1.32	1.25
1	N	438	GLU	CD-OE2	5.81	1.32	1.25
1	A	487	GLU	CD-OE2	5.81	1.32	1.25
1	B	438	GLU	CD-OE2	5.80	1.32	1.25
1	G	750	GLU	CD-OE2	5.80	1.32	1.25
1	C	487	GLU	CD-OE2	5.80	1.32	1.25
1	G	871	GLU	CD-OE2	5.80	1.32	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	871	GLU	CD-OE2	5.80	1.32	1.25
1	F	487	GLU	CD-OE2	5.80	1.32	1.25
1	L	487	GLU	CD-OE2	5.79	1.32	1.25
1	B	487	GLU	CD-OE2	5.79	1.32	1.25
1	L	871	GLU	CD-OE2	5.79	1.32	1.25
1	N	750	GLU	CD-OE2	5.79	1.32	1.25
1	G	71	GLU	CD-OE2	5.79	1.32	1.25
1	N	487	GLU	CD-OE2	5.78	1.32	1.25
1	L	438	GLU	CD-OE2	5.78	1.32	1.25
1	E	750	GLU	CD-OE2	5.78	1.32	1.25
1	D	871	GLU	CD-OE2	5.78	1.32	1.25
1	B	871	GLU	CD-OE2	5.78	1.32	1.25
1	E	871	GLU	CD-OE2	5.77	1.31	1.25
1	M	871	GLU	CD-OE2	5.77	1.31	1.25
1	O	871	GLU	CD-OE2	5.77	1.31	1.25
1	C	750	GLU	CD-OE2	5.76	1.31	1.25
1	A	750	GLU	CD-OE2	5.76	1.31	1.25
1	I	487	GLU	CD-OE2	5.76	1.31	1.25
1	I	750	GLU	CD-OE2	5.76	1.31	1.25
1	F	438	GLU	CD-OE2	5.75	1.31	1.25
1	J	750	GLU	CD-OE2	5.75	1.31	1.25
1	K	487	GLU	CD-OE2	5.75	1.31	1.25
1	M	750	GLU	CD-OE2	5.75	1.31	1.25
1	A	871	GLU	CD-OE2	5.75	1.31	1.25
1	G	487	GLU	CD-OE2	5.75	1.31	1.25
1	J	871	GLU	CD-OE2	5.75	1.31	1.25
1	C	871	GLU	CD-OE2	5.74	1.31	1.25
1	F	871	GLU	CD-OE2	5.74	1.31	1.25
1	O	71	GLU	CD-OE2	5.74	1.31	1.25
1	I	71	GLU	CD-OE2	5.73	1.31	1.25
1	H	71	GLU	CD-OE2	5.73	1.31	1.25
1	O	487	GLU	CD-OE2	5.73	1.31	1.25
1	C	71	GLU	CD-OE2	5.73	1.31	1.25
1	N	871	GLU	CD-OE2	5.73	1.31	1.25
1	F	750	GLU	CD-OE2	5.72	1.31	1.25
1	M	487	GLU	CD-OE2	5.72	1.31	1.25
1	D	71	GLU	CD-OE2	5.72	1.31	1.25
1	J	487	GLU	CD-OE2	5.72	1.31	1.25
1	L	750	GLU	CD-OE2	5.72	1.31	1.25
1	D	750	GLU	CD-OE2	5.72	1.31	1.25
1	H	487	GLU	CD-OE2	5.72	1.31	1.25
1	H	750	GLU	CD-OE2	5.72	1.31	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	71	GLU	CD-OE2	5.72	1.31	1.25
1	G	369	GLU	CD-OE2	5.72	1.31	1.25
1	P	750	GLU	CD-OE2	5.72	1.31	1.25
1	K	871	GLU	CD-OE2	5.71	1.31	1.25
1	E	369	GLU	CD-OE2	5.71	1.31	1.25
1	M	369	GLU	CD-OE2	5.71	1.31	1.25
1	B	369	GLU	CD-OE2	5.71	1.31	1.25
1	L	71	GLU	CD-OE2	5.71	1.31	1.25
1	O	750	GLU	CD-OE2	5.71	1.31	1.25
1	N	369	GLU	CD-OE2	5.71	1.31	1.25
1	P	871	GLU	CD-OE2	5.71	1.31	1.25
1	M	71	GLU	CD-OE2	5.70	1.31	1.25
1	B	71	GLU	CD-OE2	5.70	1.31	1.25
1	F	71	GLU	CD-OE2	5.70	1.31	1.25
1	A	369	GLU	CD-OE2	5.70	1.31	1.25
1	P	487	GLU	CD-OE2	5.69	1.31	1.25
1	K	71	GLU	CD-OE2	5.69	1.31	1.25
1	A	71	GLU	CD-OE2	5.68	1.31	1.25
1	D	369	GLU	CD-OE2	5.68	1.31	1.25
1	N	71	GLU	CD-OE2	5.68	1.31	1.25
1	O	369	GLU	CD-OE2	5.68	1.31	1.25
1	E	487	GLU	CD-OE2	5.68	1.31	1.25
1	C	338	GLU	CD-OE2	5.67	1.31	1.25
1	E	71	GLU	CD-OE2	5.67	1.31	1.25
1	P	71	GLU	CD-OE2	5.67	1.31	1.25
1	K	369	GLU	CD-OE2	5.66	1.31	1.25
1	H	369	GLU	CD-OE2	5.66	1.31	1.25
1	J	369	GLU	CD-OE2	5.65	1.31	1.25
1	M	304	GLU	CD-OE2	5.64	1.31	1.25
1	L	369	GLU	CD-OE2	5.64	1.31	1.25
1	B	338	GLU	CD-OE2	5.64	1.31	1.25
1	F	40	GLU	CD-OE2	5.64	1.31	1.25
1	H	338	GLU	CD-OE2	5.64	1.31	1.25
1	I	369	GLU	CD-OE2	5.64	1.31	1.25
1	J	304	GLU	CD-OE2	5.64	1.31	1.25
1	F	369	GLU	CD-OE2	5.63	1.31	1.25
1	J	40	GLU	CD-OE2	5.63	1.31	1.25
1	P	304	GLU	CD-OE2	5.63	1.31	1.25
1	C	369	GLU	CD-OE2	5.63	1.31	1.25
1	G	304	GLU	CD-OE2	5.62	1.31	1.25
1	P	369	GLU	CD-OE2	5.62	1.31	1.25
1	L	304	GLU	CD-OE2	5.62	1.31	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	304	GLU	CD-OE2	5.62	1.31	1.25
1	D	338	GLU	CD-OE2	5.61	1.31	1.25
1	H	334	GLU	CD-OE2	5.61	1.31	1.25
1	E	338	GLU	CD-OE2	5.61	1.31	1.25
1	N	314	GLU	CD-OE2	5.61	1.31	1.25
1	L	338	GLU	CD-OE2	5.60	1.31	1.25
1	B	40	GLU	CD-OE2	5.60	1.31	1.25
1	E	304	GLU	CD-OE2	5.60	1.31	1.25
1	K	304	GLU	CD-OE2	5.60	1.31	1.25
1	D	304	GLU	CD-OE2	5.60	1.31	1.25
1	H	40	GLU	CD-OE2	5.60	1.31	1.25
1	F	304	GLU	CD-OE2	5.59	1.31	1.25
1	K	40	GLU	CD-OE2	5.59	1.31	1.25
1	C	314	GLU	CD-OE2	5.59	1.31	1.25
1	K	338	GLU	CD-OE2	5.58	1.31	1.25
1	N	338	GLU	CD-OE2	5.58	1.31	1.25
1	O	338	GLU	CD-OE2	5.58	1.31	1.25
1	P	314	GLU	CD-OE2	5.58	1.31	1.25
1	B	304	GLU	CD-OE2	5.58	1.31	1.25
1	G	338	GLU	CD-OE2	5.58	1.31	1.25
1	H	304	GLU	CD-OE2	5.58	1.31	1.25
1	A	338	GLU	CD-OE2	5.58	1.31	1.25
1	M	40	GLU	CD-OE2	5.58	1.31	1.25
1	G	40	GLU	CD-OE2	5.57	1.31	1.25
1	I	304	GLU	CD-OE2	5.57	1.31	1.25
1	I	338	GLU	CD-OE2	5.57	1.31	1.25
1	N	334	GLU	CD-OE2	5.57	1.31	1.25
1	C	304	GLU	CD-OE2	5.57	1.31	1.25
1	O	40	GLU	CD-OE2	5.57	1.31	1.25
1	M	338	GLU	CD-OE2	5.57	1.31	1.25
1	O	334	GLU	CD-OE2	5.57	1.31	1.25
1	B	334	GLU	CD-OE2	5.57	1.31	1.25
1	F	338	GLU	CD-OE2	5.57	1.31	1.25
1	A	40	GLU	CD-OE2	5.56	1.31	1.25
1	B	314	GLU	CD-OE2	5.56	1.31	1.25
1	J	338	GLU	CD-OE2	5.56	1.31	1.25
1	P	338	GLU	CD-OE2	5.56	1.31	1.25
1	F	314	GLU	CD-OE2	5.55	1.31	1.25
1	I	40	GLU	CD-OE2	5.55	1.31	1.25
1	M	334	GLU	CD-OE2	5.55	1.31	1.25
1	C	40	GLU	CD-OE2	5.55	1.31	1.25
1	O	304	GLU	CD-OE2	5.55	1.31	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	304	GLU	CD-OE2	5.54	1.31	1.25
1	I	334	GLU	CD-OE2	5.54	1.31	1.25
1	L	40	GLU	CD-OE2	5.54	1.31	1.25
1	L	314	GLU	CD-OE2	5.54	1.31	1.25
1	A	314	GLU	CD-OE2	5.54	1.31	1.25
1	F	334	GLU	CD-OE2	5.54	1.31	1.25
1	K	314	GLU	CD-OE2	5.54	1.31	1.25
1	L	334	GLU	CD-OE2	5.54	1.31	1.25
1	P	40	GLU	CD-OE2	5.54	1.31	1.25
1	E	334	GLU	CD-OE2	5.53	1.31	1.25
1	G	334	GLU	CD-OE2	5.53	1.31	1.25
1	N	40	GLU	CD-OE2	5.53	1.31	1.25
1	K	334	GLU	CD-OE2	5.53	1.31	1.25
1	D	314	GLU	CD-OE2	5.52	1.31	1.25
1	I	314	GLU	CD-OE2	5.51	1.31	1.25
1	J	314	GLU	CD-OE2	5.51	1.31	1.25
1	E	314	GLU	CD-OE2	5.51	1.31	1.25
1	J	334	GLU	CD-OE2	5.51	1.31	1.25
1	G	314	GLU	CD-OE2	5.51	1.31	1.25
1	D	40	GLU	CD-OE2	5.51	1.31	1.25
1	E	40	GLU	CD-OE2	5.50	1.31	1.25
1	A	334	GLU	CD-OE2	5.49	1.31	1.25
1	O	170	GLU	CD-OE2	5.49	1.31	1.25
1	M	314	GLU	CD-OE2	5.49	1.31	1.25
1	E	80	GLU	CD-OE2	5.49	1.31	1.25
1	O	314	GLU	CD-OE2	5.49	1.31	1.25
1	C	334	GLU	CD-OE2	5.48	1.31	1.25
1	D	334	GLU	CD-OE2	5.48	1.31	1.25
1	I	170	GLU	CD-OE2	5.48	1.31	1.25
1	P	334	GLU	CD-OE2	5.47	1.31	1.25
1	O	80	GLU	CD-OE2	5.47	1.31	1.25
1	C	80	GLU	CD-OE2	5.46	1.31	1.25
1	H	314	GLU	CD-OE2	5.46	1.31	1.25
1	H	80	GLU	CD-OE2	5.46	1.31	1.25
1	I	80	GLU	CD-OE2	5.45	1.31	1.25
1	J	80	GLU	CD-OE2	5.44	1.31	1.25
1	K	170	GLU	CD-OE2	5.44	1.31	1.25
1	P	324	GLU	CD-OE2	5.44	1.31	1.25
1	J	170	GLU	CD-OE2	5.43	1.31	1.25
1	L	80	GLU	CD-OE2	5.43	1.31	1.25
1	M	80	GLU	CD-OE2	5.43	1.31	1.25
1	K	80	GLU	CD-OE2	5.43	1.31	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	170	GLU	CD-OE2	5.42	1.31	1.25
1	G	80	GLU	CD-OE2	5.42	1.31	1.25
1	B	324	GLU	CD-OE2	5.41	1.31	1.25
1	G	170	GLU	CD-OE2	5.41	1.31	1.25
1	P	80	GLU	CD-OE2	5.41	1.31	1.25
1	K	324	GLU	CD-OE2	5.40	1.31	1.25
1	F	80	GLU	CD-OE2	5.40	1.31	1.25
1	D	324	GLU	CD-OE2	5.40	1.31	1.25
1	F	324	GLU	CD-OE2	5.39	1.31	1.25
1	A	324	GLU	CD-OE2	5.39	1.31	1.25
1	D	80	GLU	CD-OE2	5.39	1.31	1.25
1	B	170	GLU	CD-OE2	5.39	1.31	1.25
1	O	324	GLU	CD-OE2	5.39	1.31	1.25
1	E	170	GLU	CD-OE2	5.38	1.31	1.25
1	A	80	GLU	CD-OE2	5.38	1.31	1.25
1	M	324	GLU	CD-OE2	5.37	1.31	1.25
1	A	170	GLU	CD-OE2	5.37	1.31	1.25
1	D	41	GLU	CD-OE2	5.37	1.31	1.25
1	L	170	GLU	CD-OE2	5.37	1.31	1.25
1	C	170	GLU	CD-OE2	5.37	1.31	1.25
1	J	943	GLU	CD-OE2	5.37	1.31	1.25
1	C	324	GLU	CD-OE2	5.37	1.31	1.25
1	D	170	GLU	CD-OE2	5.36	1.31	1.25
1	N	324	GLU	CD-OE2	5.36	1.31	1.25
1	H	170	GLU	CD-OE2	5.36	1.31	1.25
1	N	80	GLU	CD-OE2	5.36	1.31	1.25
1	J	41	GLU	CD-OE2	5.36	1.31	1.25
1	O	41	GLU	CD-OE2	5.36	1.31	1.25
1	P	170	GLU	CD-OE2	5.36	1.31	1.25
1	L	943	GLU	CD-OE2	5.36	1.31	1.25
1	C	943	GLU	CD-OE2	5.35	1.31	1.25
1	L	324	GLU	CD-OE2	5.35	1.31	1.25
1	P	41	GLU	CD-OE2	5.35	1.31	1.25
1	E	41	GLU	CD-OE2	5.35	1.31	1.25
1	H	324	GLU	CD-OE2	5.35	1.31	1.25
1	G	324	GLU	CD-OE2	5.35	1.31	1.25
1	N	170	GLU	CD-OE2	5.35	1.31	1.25
1	E	324	GLU	CD-OE2	5.34	1.31	1.25
1	K	943	GLU	CD-OE2	5.34	1.31	1.25
1	M	943	GLU	CD-OE2	5.34	1.31	1.25
1	P	943	GLU	CD-OE2	5.34	1.31	1.25
1	H	943	GLU	CD-OE2	5.34	1.31	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	943	GLU	CD-OE2	5.34	1.31	1.25
1	I	324	GLU	CD-OE2	5.34	1.31	1.25
1	G	41	GLU	CD-OE2	5.34	1.31	1.25
1	J	324	GLU	CD-OE2	5.34	1.31	1.25
1	B	80	GLU	CD-OE2	5.33	1.31	1.25
1	E	943	GLU	CD-OE2	5.33	1.31	1.25
1	F	170	GLU	CD-OE2	5.33	1.31	1.25
1	I	943	GLU	CD-OE2	5.33	1.31	1.25
1	F	41	GLU	CD-OE2	5.33	1.31	1.25
1	O	943	GLU	CD-OE2	5.32	1.31	1.25
1	B	41	GLU	CD-OE2	5.32	1.31	1.25
1	N	41	GLU	CD-OE2	5.31	1.31	1.25
1	I	41	GLU	CD-OE2	5.31	1.31	1.25
1	A	943	GLU	CD-OE2	5.30	1.31	1.25
1	G	943	GLU	CD-OE2	5.30	1.31	1.25
1	N	943	GLU	CD-OE2	5.30	1.31	1.25
1	K	41	GLU	CD-OE2	5.30	1.31	1.25
1	F	943	GLU	CD-OE2	5.30	1.31	1.25
1	L	41	GLU	CD-OE2	5.29	1.31	1.25
1	A	41	GLU	CD-OE2	5.29	1.31	1.25
1	B	943	GLU	CD-OE2	5.29	1.31	1.25
1	H	41	GLU	CD-OE2	5.27	1.31	1.25
1	C	41	GLU	CD-OE2	5.26	1.31	1.25
1	M	41	GLU	CD-OE2	5.26	1.31	1.25
1	H	641	GLU	CD-OE2	5.21	1.31	1.25
1	N	641	GLU	CD-OE2	5.21	1.31	1.25
1	G	641	GLU	CD-OE2	5.16	1.31	1.25
1	P	641	GLU	CD-OE2	5.16	1.31	1.25
1	C	641	GLU	CD-OE2	5.15	1.31	1.25
1	K	641	GLU	CD-OE2	5.15	1.31	1.25
1	M	641	GLU	CD-OE2	5.15	1.31	1.25
1	E	412	GLU	CD-OE2	5.14	1.31	1.25
1	I	412	GLU	CD-OE2	5.13	1.31	1.25
1	J	641	GLU	CD-OE2	5.13	1.31	1.25
1	E	641	GLU	CD-OE2	5.13	1.31	1.25
1	N	17	GLU	CD-OE2	5.13	1.31	1.25
1	D	641	GLU	CD-OE2	5.12	1.31	1.25
1	E	17	GLU	CD-OE2	5.11	1.31	1.25
1	F	641	GLU	CD-OE2	5.11	1.31	1.25
1	O	641	GLU	CD-OE2	5.11	1.31	1.25
1	A	641	GLU	CD-OE2	5.11	1.31	1.25
1	B	641	GLU	CD-OE2	5.10	1.31	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	412	GLU	CD-OE2	5.10	1.31	1.25
1	B	904	GLU	CD-OE2	5.10	1.31	1.25
1	H	17	GLU	CD-OE2	5.10	1.31	1.25
1	L	412	GLU	CD-OE2	5.10	1.31	1.25
1	P	412	GLU	CD-OE2	5.09	1.31	1.25
1	I	641	GLU	CD-OE2	5.09	1.31	1.25
1	N	412	GLU	CD-OE2	5.09	1.31	1.25
1	A	412	GLU	CD-OE2	5.09	1.31	1.25
1	F	17	GLU	CD-OE2	5.09	1.31	1.25
1	O	17	GLU	CD-OE2	5.09	1.31	1.25
1	I	17	GLU	CD-OE2	5.09	1.31	1.25
1	G	17	GLU	CD-OE2	5.09	1.31	1.25
1	L	641	GLU	CD-OE2	5.09	1.31	1.25
1	M	904	GLU	CD-OE2	5.08	1.31	1.25
1	C	904	GLU	CD-OE2	5.08	1.31	1.25
1	C	412	GLU	CD-OE2	5.07	1.31	1.25
1	L	17	GLU	CD-OE2	5.07	1.31	1.25
1	M	17	GLU	CD-OE2	5.06	1.31	1.25
1	J	412	GLU	CD-OE2	5.06	1.31	1.25
1	K	412	GLU	CD-OE2	5.06	1.31	1.25
1	L	904	GLU	CD-OE2	5.06	1.31	1.25
1	F	412	GLU	CD-OE2	5.05	1.31	1.25
1	P	17	GLU	CD-OE2	5.04	1.31	1.25
1	D	412	GLU	CD-OE2	5.04	1.31	1.25
1	N	904	GLU	CD-OE2	5.04	1.31	1.25
1	B	17	GLU	CD-OE2	5.04	1.31	1.25
1	F	904	GLU	CD-OE2	5.04	1.31	1.25
1	A	17	GLU	CD-OE2	5.04	1.31	1.25
1	G	537	GLU	CD-OE2	5.04	1.31	1.25
1	O	412	GLU	CD-OE2	5.04	1.31	1.25
1	G	412	GLU	CD-OE2	5.03	1.31	1.25
1	J	17	GLU	CD-OE2	5.02	1.31	1.25
1	A	537	GLU	CD-OE2	5.02	1.31	1.25
1	O	904	GLU	CD-OE2	5.02	1.31	1.25
1	C	17	GLU	CD-OE2	5.02	1.31	1.25
1	I	537	GLU	CD-OE2	5.02	1.31	1.25
1	K	904	GLU	CD-OE2	5.02	1.31	1.25
1	D	904	GLU	CD-OE2	5.02	1.31	1.25
1	D	17	GLU	CD-OE2	5.01	1.31	1.25
1	H	904	GLU	CD-OE2	5.01	1.31	1.25
1	A	243	GLU	CD-OE2	5.01	1.31	1.25
1	H	412	GLU	CD-OE2	5.01	1.31	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	904	GLU	CD-OE2	5.01	1.31	1.25

All (2239) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	561	ARG	NE-CZ-NH1	10.76	125.68	120.30
1	M	561	ARG	NE-CZ-NH1	10.72	125.66	120.30
1	I	561	ARG	NE-CZ-NH1	10.71	125.65	120.30
1	C	561	ARG	NE-CZ-NH1	10.71	125.65	120.30
1	D	561	ARG	NE-CZ-NH1	10.68	125.64	120.30
1	A	561	ARG	NE-CZ-NH1	10.65	125.62	120.30
1	N	561	ARG	NE-CZ-NH1	10.65	125.62	120.30
1	F	561	ARG	NE-CZ-NH1	10.63	125.61	120.30
1	K	561	ARG	NE-CZ-NH1	10.61	125.61	120.30
1	B	561	ARG	NE-CZ-NH1	10.61	125.61	120.30
1	O	561	ARG	NE-CZ-NH1	10.61	125.61	120.30
1	G	561	ARG	NE-CZ-NH1	10.59	125.59	120.30
1	H	561	ARG	NE-CZ-NH1	10.58	125.59	120.30
1	P	561	ARG	NE-CZ-NH1	10.58	125.59	120.30
1	L	561	ARG	NE-CZ-NH1	10.57	125.59	120.30
1	E	561	ARG	NE-CZ-NH1	10.55	125.58	120.30
1	K	429	ASP	CB-CG-OD2	-10.18	109.13	118.30
1	L	429	ASP	CB-CG-OD2	-10.17	109.14	118.30
1	F	429	ASP	CB-CG-OD2	-10.16	109.15	118.30
1	H	429	ASP	CB-CG-OD2	-10.16	109.16	118.30
1	A	429	ASP	CB-CG-OD2	-10.15	109.17	118.30
1	P	429	ASP	CB-CG-OD2	-10.14	109.17	118.30
1	C	429	ASP	CB-CG-OD2	-10.13	109.18	118.30
1	I	429	ASP	CB-CG-OD2	-10.13	109.18	118.30
1	O	429	ASP	CB-CG-OD2	-10.13	109.18	118.30
1	J	429	ASP	CB-CG-OD2	-10.13	109.18	118.30
1	M	429	ASP	CB-CG-OD2	-10.12	109.19	118.30
1	E	429	ASP	CB-CG-OD2	-10.12	109.19	118.30
1	G	429	ASP	CB-CG-OD2	-10.11	109.20	118.30
1	D	429	ASP	CB-CG-OD2	-10.10	109.21	118.30
1	N	429	ASP	CB-CG-OD2	-10.09	109.22	118.30
1	B	429	ASP	CB-CG-OD2	-10.08	109.23	118.30
1	J	46	ARG	C-N-CD	-9.74	99.18	120.60
1	M	46	ARG	C-N-CD	-9.74	99.18	120.60
1	G	46	ARG	C-N-CD	-9.73	99.19	120.60
1	I	46	ARG	C-N-CD	-9.73	99.19	120.60
1	N	46	ARG	C-N-CD	-9.73	99.19	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	46	ARG	C-N-CD	-9.73	99.20	120.60
1	O	46	ARG	C-N-CD	-9.73	99.20	120.60
1	D	46	ARG	C-N-CD	-9.72	99.20	120.60
1	A	46	ARG	C-N-CD	-9.72	99.21	120.60
1	H	46	ARG	C-N-CD	-9.72	99.21	120.60
1	P	46	ARG	C-N-CD	-9.72	99.22	120.60
1	B	46	ARG	C-N-CD	-9.72	99.22	120.60
1	L	46	ARG	C-N-CD	-9.72	99.22	120.60
1	K	46	ARG	C-N-CD	-9.71	99.23	120.60
1	F	46	ARG	C-N-CD	-9.71	99.25	120.60
1	C	46	ARG	C-N-CD	-9.70	99.26	120.60
1	I	809	ARG	NE-CZ-NH2	-9.06	115.77	120.30
1	P	69	VAL	C-N-CD	-9.06	100.67	120.60
1	M	69	VAL	C-N-CD	-9.06	100.68	120.60
1	N	69	VAL	C-N-CD	-9.05	100.68	120.60
1	A	69	VAL	C-N-CD	-9.05	100.69	120.60
1	I	69	VAL	C-N-CD	-9.05	100.69	120.60
1	K	69	VAL	C-N-CD	-9.05	100.69	120.60
1	C	69	VAL	C-N-CD	-9.05	100.69	120.60
1	C	809	ARG	NE-CZ-NH2	-9.05	115.78	120.30
1	H	69	VAL	C-N-CD	-9.04	100.70	120.60
1	B	69	VAL	C-N-CD	-9.04	100.71	120.60
1	L	69	VAL	C-N-CD	-9.04	100.71	120.60
1	O	809	ARG	NE-CZ-NH2	-9.04	115.78	120.30
1	J	69	VAL	C-N-CD	-9.04	100.72	120.60
1	E	69	VAL	C-N-CD	-9.04	100.72	120.60
1	G	69	VAL	C-N-CD	-9.04	100.72	120.60
1	D	69	VAL	C-N-CD	-9.03	100.73	120.60
1	O	69	VAL	C-N-CD	-9.03	100.74	120.60
1	F	69	VAL	C-N-CD	-9.02	100.76	120.60
1	H	809	ARG	NE-CZ-NH2	-9.02	115.79	120.30
1	M	809	ARG	NE-CZ-NH2	-9.02	115.79	120.30
1	G	809	ARG	NE-CZ-NH2	-9.00	115.80	120.30
1	A	809	ARG	NE-CZ-NH2	-9.00	115.80	120.30
1	J	809	ARG	NE-CZ-NH2	-8.99	115.81	120.30
1	K	809	ARG	NE-CZ-NH2	-8.99	115.81	120.30
1	F	809	ARG	NE-CZ-NH2	-8.98	115.81	120.30
1	L	809	ARG	NE-CZ-NH2	-8.96	115.82	120.30
1	E	809	ARG	NE-CZ-NH2	-8.92	115.84	120.30
1	D	809	ARG	NE-CZ-NH2	-8.91	115.84	120.30
1	P	809	ARG	NE-CZ-NH2	-8.90	115.85	120.30
1	N	809	ARG	NE-CZ-NH2	-8.89	115.85	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	809	ARG	NE-CZ-NH2	-8.86	115.87	120.30
1	L	429	ASP	CB-CG-OD1	8.69	126.12	118.30
1	I	429	ASP	CB-CG-OD1	8.66	126.10	118.30
1	C	429	ASP	CB-CG-OD1	8.66	126.09	118.30
1	A	429	ASP	CB-CG-OD1	8.66	126.09	118.30
1	K	429	ASP	CB-CG-OD1	8.66	126.09	118.30
1	G	429	ASP	CB-CG-OD1	8.65	126.09	118.30
1	O	429	ASP	CB-CG-OD1	8.65	126.08	118.30
1	J	429	ASP	CB-CG-OD1	8.65	126.08	118.30
1	E	429	ASP	CB-CG-OD1	8.63	126.07	118.30
1	H	429	ASP	CB-CG-OD1	8.62	126.06	118.30
1	B	429	ASP	CB-CG-OD1	8.61	126.05	118.30
1	P	429	ASP	CB-CG-OD1	8.61	126.05	118.30
1	F	429	ASP	CB-CG-OD1	8.60	126.04	118.30
1	N	429	ASP	CB-CG-OD1	8.60	126.04	118.30
1	D	429	ASP	CB-CG-OD1	8.58	126.03	118.30
1	M	429	ASP	CB-CG-OD1	8.58	126.02	118.30
1	J	356	ARG	NE-CZ-NH1	8.51	124.56	120.30
1	G	356	ARG	NE-CZ-NH1	8.49	124.55	120.30
1	K	356	ARG	NE-CZ-NH1	8.48	124.54	120.30
1	C	356	ARG	NE-CZ-NH1	8.47	124.53	120.30
1	E	356	ARG	NE-CZ-NH1	8.47	124.53	120.30
1	P	356	ARG	NE-CZ-NH1	8.46	124.53	120.30
1	O	356	ARG	NE-CZ-NH1	8.45	124.52	120.30
1	D	356	ARG	NE-CZ-NH1	8.44	124.52	120.30
1	E	130	ASP	CB-CG-OD1	8.43	125.89	118.30
1	N	356	ARG	NE-CZ-NH1	8.43	124.52	120.30
1	F	356	ARG	NE-CZ-NH1	8.41	124.51	120.30
1	M	130	ASP	CB-CG-OD1	8.41	125.87	118.30
1	N	130	ASP	CB-CG-OD1	8.41	125.87	118.30
1	N	329	ASP	CB-CG-OD2	-8.40	110.74	118.30
1	H	356	ARG	NE-CZ-NH1	8.40	124.50	120.30
1	K	130	ASP	CB-CG-OD1	8.40	125.86	118.30
1	C	130	ASP	CB-CG-OD1	8.40	125.86	118.30
1	I	356	ARG	NE-CZ-NH1	8.40	124.50	120.30
1	O	130	ASP	CB-CG-OD1	8.40	125.86	118.30
1	B	130	ASP	CB-CG-OD1	8.39	125.85	118.30
1	B	329	ASP	CB-CG-OD2	-8.39	110.75	118.30
1	B	356	ARG	NE-CZ-NH1	8.39	124.50	120.30
1	A	329	ASP	CB-CG-OD2	-8.39	110.75	118.30
1	L	130	ASP	CB-CG-OD1	8.39	125.85	118.30
1	L	329	ASP	CB-CG-OD2	-8.39	110.75	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	329	ASP	CB-CG-OD2	-8.38	110.75	118.30
1	J	329	ASP	CB-CG-OD2	-8.38	110.75	118.30
1	M	356	ARG	NE-CZ-NH1	8.38	124.49	120.30
1	A	130	ASP	CB-CG-OD1	8.38	125.84	118.30
1	A	356	ARG	NE-CZ-NH1	8.38	124.49	120.30
1	D	329	ASP	CB-CG-OD2	-8.38	110.76	118.30
1	L	356	ARG	NE-CZ-NH1	8.37	124.49	120.30
1	F	329	ASP	CB-CG-OD2	-8.37	110.77	118.30
1	H	130	ASP	CB-CG-OD1	8.37	125.83	118.30
1	F	130	ASP	CB-CG-OD1	8.37	125.83	118.30
1	O	329	ASP	CB-CG-OD2	-8.37	110.77	118.30
1	P	130	ASP	CB-CG-OD1	8.37	125.83	118.30
1	G	130	ASP	CB-CG-OD1	8.36	125.82	118.30
1	J	130	ASP	CB-CG-OD1	8.36	125.82	118.30
1	C	329	ASP	CB-CG-OD2	-8.36	110.78	118.30
1	G	329	ASP	CB-CG-OD2	-8.36	110.78	118.30
1	P	329	ASP	CB-CG-OD2	-8.36	110.78	118.30
1	D	130	ASP	CB-CG-OD1	8.35	125.82	118.30
1	I	329	ASP	CB-CG-OD2	-8.35	110.79	118.30
1	I	130	ASP	CB-CG-OD1	8.33	125.80	118.30
1	D	43	ARG	NE-CZ-NH1	8.33	124.47	120.30
1	E	329	ASP	CB-CG-OD2	-8.33	110.80	118.30
1	A	746	ASP	CB-CG-OD2	-8.32	110.81	118.30
1	K	329	ASP	CB-CG-OD2	-8.32	110.81	118.30
1	K	43	ARG	NE-CZ-NH1	8.31	124.46	120.30
1	A	43	ARG	NE-CZ-NH1	8.31	124.46	120.30
1	G	43	ARG	NE-CZ-NH1	8.31	124.45	120.30
1	M	329	ASP	CB-CG-OD2	-8.31	110.82	118.30
1	M	43	ARG	NE-CZ-NH1	8.30	124.45	120.30
1	L	43	ARG	NE-CZ-NH1	8.30	124.45	120.30
1	J	43	ARG	NE-CZ-NH1	8.30	124.45	120.30
1	N	746	ASP	CB-CG-OD2	-8.29	110.84	118.30
1	K	746	ASP	CB-CG-OD2	-8.29	110.84	118.30
1	N	43	ARG	NE-CZ-NH1	8.29	124.44	120.30
1	E	43	ARG	NE-CZ-NH1	8.28	124.44	120.30
1	F	43	ARG	NE-CZ-NH1	8.28	124.44	120.30
1	E	746	ASP	CB-CG-OD2	-8.27	110.86	118.30
1	F	746	ASP	CB-CG-OD2	-8.26	110.86	118.30
1	I	43	ARG	NE-CZ-NH1	8.26	124.43	120.30
1	M	746	ASP	CB-CG-OD2	-8.26	110.87	118.30
1	O	746	ASP	CB-CG-OD2	-8.25	110.87	118.30
1	G	746	ASP	CB-CG-OD2	-8.25	110.87	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	746	ASP	CB-CG-OD2	-8.25	110.88	118.30
1	J	746	ASP	CB-CG-OD2	-8.23	110.89	118.30
1	I	746	ASP	CB-CG-OD2	-8.23	110.89	118.30
1	O	43	ARG	NE-CZ-NH1	8.23	124.42	120.30
1	C	746	ASP	CB-CG-OD2	-8.23	110.90	118.30
1	H	746	ASP	CB-CG-OD2	-8.23	110.89	118.30
1	B	43	ARG	NE-CZ-NH1	8.22	124.41	120.30
1	P	746	ASP	CB-CG-OD2	-8.22	110.90	118.30
1	C	43	ARG	NE-CZ-NH1	8.22	124.41	120.30
1	D	746	ASP	CB-CG-OD2	-8.22	110.90	118.30
1	P	43	ARG	NE-CZ-NH1	8.21	124.41	120.30
1	L	746	ASP	CB-CG-OD2	-8.19	110.93	118.30
1	H	43	ARG	NE-CZ-NH1	8.16	124.38	120.30
1	F	368	ASP	CB-CG-OD2	-8.09	111.02	118.30
1	C	368	ASP	CB-CG-OD2	-8.08	111.03	118.30
1	I	368	ASP	CB-CG-OD2	-8.07	111.03	118.30
1	E	368	ASP	CB-CG-OD2	-8.07	111.04	118.30
1	O	368	ASP	CB-CG-OD2	-8.07	111.04	118.30
1	N	368	ASP	CB-CG-OD2	-8.06	111.04	118.30
1	A	368	ASP	CB-CG-OD2	-8.06	111.05	118.30
1	H	368	ASP	CB-CG-OD2	-8.06	111.05	118.30
1	L	368	ASP	CB-CG-OD2	-8.05	111.05	118.30
1	G	368	ASP	CB-CG-OD2	-8.04	111.06	118.30
1	D	368	ASP	CB-CG-OD2	-8.04	111.07	118.30
1	P	368	ASP	CB-CG-OD2	-8.04	111.07	118.30
1	K	368	ASP	CB-CG-OD2	-8.03	111.08	118.30
1	J	368	ASP	CB-CG-OD2	-8.03	111.08	118.30
1	B	368	ASP	CB-CG-OD2	-8.01	111.09	118.30
1	M	368	ASP	CB-CG-OD2	-7.98	111.12	118.30
1	F	881	ARG	NE-CZ-NH1	7.86	124.23	120.30
1	K	881	ARG	NE-CZ-NH1	7.84	124.22	120.30
1	O	881	ARG	NE-CZ-NH1	7.83	124.21	120.30
1	P	881	ARG	NE-CZ-NH1	7.83	124.21	120.30
1	I	881	ARG	NE-CZ-NH1	7.80	124.20	120.30
1	J	881	ARG	NE-CZ-NH1	7.79	124.20	120.30
1	H	881	ARG	NE-CZ-NH1	7.76	124.18	120.30
1	E	881	ARG	NE-CZ-NH1	7.76	124.18	120.30
1	L	881	ARG	NE-CZ-NH1	7.74	124.17	120.30
1	D	881	ARG	NE-CZ-NH1	7.74	124.17	120.30
1	N	881	ARG	NE-CZ-NH1	7.71	124.16	120.30
1	A	881	ARG	NE-CZ-NH1	7.71	124.16	120.30
1	G	881	ARG	NE-CZ-NH1	7.70	124.15	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	881	ARG	NE-CZ-NH1	7.69	124.14	120.30
1	B	881	ARG	NE-CZ-NH1	7.67	124.13	120.30
1	H	199	ASP	CB-CG-OD2	-7.66	111.40	118.30
1	E	199	ASP	CB-CG-OD2	-7.66	111.41	118.30
1	I	199	ASP	CB-CG-OD2	-7.65	111.42	118.30
1	F	199	ASP	CB-CG-OD2	-7.65	111.42	118.30
1	L	199	ASP	CB-CG-OD2	-7.65	111.42	118.30
1	K	199	ASP	CB-CG-OD2	-7.64	111.42	118.30
1	M	881	ARG	NE-CZ-NH1	7.64	124.12	120.30
1	D	199	ASP	CB-CG-OD2	-7.64	111.42	118.30
1	N	572	ASP	CB-CG-OD2	-7.64	111.42	118.30
1	C	199	ASP	CB-CG-OD2	-7.62	111.44	118.30
1	C	572	ASP	CB-CG-OD2	-7.62	111.44	118.30
1	M	199	ASP	CB-CG-OD2	-7.62	111.44	118.30
1	B	199	ASP	CB-CG-OD2	-7.62	111.45	118.30
1	D	572	ASP	CB-CG-OD2	-7.60	111.46	118.30
1	E	572	ASP	CB-CG-OD2	-7.60	111.46	118.30
1	I	572	ASP	CB-CG-OD2	-7.60	111.46	118.30
1	O	199	ASP	CB-CG-OD2	-7.60	111.46	118.30
1	O	572	ASP	CB-CG-OD2	-7.60	111.46	118.30
1	K	572	ASP	CB-CG-OD2	-7.60	111.46	118.30
1	P	199	ASP	CB-CG-OD2	-7.59	111.46	118.30
1	C	448	ARG	NE-CZ-NH2	-7.59	116.50	120.30
1	A	199	ASP	CB-CG-OD2	-7.58	111.47	118.30
1	G	199	ASP	CB-CG-OD2	-7.58	111.48	118.30
1	G	572	ASP	CB-CG-OD2	-7.58	111.48	118.30
1	H	572	ASP	CB-CG-OD2	-7.58	111.48	118.30
1	P	572	ASP	CB-CG-OD2	-7.58	111.48	118.30
1	F	572	ASP	CB-CG-OD2	-7.57	111.49	118.30
1	B	572	ASP	CB-CG-OD2	-7.57	111.49	118.30
1	D	448	ARG	NE-CZ-NH2	-7.57	116.52	120.30
1	J	572	ASP	CB-CG-OD2	-7.57	111.49	118.30
1	J	199	ASP	CB-CG-OD2	-7.56	111.50	118.30
1	E	130	ASP	CB-CG-OD2	-7.56	111.50	118.30
1	N	130	ASP	CB-CG-OD2	-7.56	111.50	118.30
1	L	572	ASP	CB-CG-OD2	-7.56	111.50	118.30
1	M	572	ASP	CB-CG-OD2	-7.56	111.50	118.30
1	O	448	ARG	NE-CZ-NH2	-7.56	116.52	120.30
1	F	130	ASP	CB-CG-OD2	-7.55	111.50	118.30
1	N	199	ASP	CB-CG-OD2	-7.55	111.50	118.30
1	P	448	ARG	NE-CZ-NH2	-7.55	116.53	120.30
1	P	130	ASP	CB-CG-OD2	-7.55	111.51	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	572	ASP	CB-CG-OD2	-7.54	111.51	118.30
1	E	448	ARG	NE-CZ-NH2	-7.54	116.53	120.30
1	K	130	ASP	CB-CG-OD2	-7.54	111.51	118.30
1	A	130	ASP	CB-CG-OD2	-7.54	111.51	118.30
1	O	130	ASP	CB-CG-OD2	-7.54	111.52	118.30
1	L	130	ASP	CB-CG-OD2	-7.53	111.53	118.30
1	C	130	ASP	CB-CG-OD2	-7.52	111.53	118.30
1	M	130	ASP	CB-CG-OD2	-7.52	111.53	118.30
1	B	448	ARG	NE-CZ-NH2	-7.52	116.54	120.30
1	H	130	ASP	CB-CG-OD2	-7.52	111.54	118.30
1	G	130	ASP	CB-CG-OD2	-7.51	111.54	118.30
1	J	130	ASP	CB-CG-OD2	-7.51	111.54	118.30
1	B	130	ASP	CB-CG-OD2	-7.51	111.54	118.30
1	I	130	ASP	CB-CG-OD2	-7.50	111.55	118.30
1	I	448	ARG	NE-CZ-NH2	-7.50	116.55	120.30
1	A	448	ARG	NE-CZ-NH2	-7.50	116.55	120.30
1	N	448	ARG	NE-CZ-NH2	-7.50	116.55	120.30
1	H	448	ARG	NE-CZ-NH2	-7.50	116.55	120.30
1	D	130	ASP	CB-CG-OD2	-7.49	111.56	118.30
1	L	448	ARG	NE-CZ-NH2	-7.49	116.56	120.30
1	G	448	ARG	NE-CZ-NH2	-7.48	116.56	120.30
1	F	448	ARG	NE-CZ-NH2	-7.47	116.56	120.30
1	J	448	ARG	NE-CZ-NH2	-7.45	116.58	120.30
1	K	448	ARG	NE-CZ-NH2	-7.45	116.58	120.30
1	M	448	ARG	NE-CZ-NH2	-7.41	116.59	120.30
1	D	509	ASP	CB-CG-OD2	-7.38	111.66	118.30
1	B	509	ASP	CB-CG-OD2	-7.37	111.66	118.30
1	C	509	ASP	CB-CG-OD2	-7.37	111.67	118.30
1	F	594	ASP	CB-CG-OD2	-7.37	111.67	118.30
1	M	509	ASP	CB-CG-OD2	-7.36	111.67	118.30
1	N	594	ASP	CB-CG-OD2	-7.36	111.68	118.30
1	O	594	ASP	CB-CG-OD2	-7.36	111.68	118.30
1	C	594	ASP	CB-CG-OD2	-7.35	111.68	118.30
1	J	594	ASP	CB-CG-OD2	-7.35	111.68	118.30
1	L	594	ASP	CB-CG-OD2	-7.35	111.68	118.30
1	B	594	ASP	CB-CG-OD2	-7.35	111.69	118.30
1	E	509	ASP	CB-CG-OD2	-7.35	111.69	118.30
1	F	428	ASP	CB-CG-OD2	-7.35	111.69	118.30
1	L	509	ASP	CB-CG-OD2	-7.35	111.69	118.30
1	J	509	ASP	CB-CG-OD2	-7.35	111.69	118.30
1	G	509	ASP	CB-CG-OD2	-7.35	111.69	118.30
1	H	428	ASP	CB-CG-OD2	-7.34	111.69	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	594	ASP	CB-CG-OD2	-7.34	111.69	118.30
1	A	594	ASP	CB-CG-OD2	-7.34	111.70	118.30
1	O	428	ASP	CB-CG-OD2	-7.34	111.70	118.30
1	F	509	ASP	CB-CG-OD2	-7.33	111.70	118.30
1	A	428	ASP	CB-CG-OD2	-7.33	111.70	118.30
1	A	509	ASP	CB-CG-OD2	-7.33	111.70	118.30
1	E	428	ASP	CB-CG-OD2	-7.33	111.70	118.30
1	G	594	ASP	CB-CG-OD2	-7.33	111.70	118.30
1	O	509	ASP	CB-CG-OD2	-7.33	111.70	118.30
1	H	509	ASP	CB-CG-OD2	-7.33	111.70	118.30
1	P	509	ASP	CB-CG-OD2	-7.33	111.70	118.30
1	I	428	ASP	CB-CG-OD2	-7.33	111.71	118.30
1	P	571	VAL	CB-CA-C	-7.32	97.49	111.40
1	D	571	VAL	CB-CA-C	-7.32	97.50	111.40
1	N	509	ASP	CB-CG-OD2	-7.31	111.72	118.30
1	C	571	VAL	CB-CA-C	-7.31	97.51	111.40
1	E	594	ASP	CB-CG-OD2	-7.31	111.72	118.30
1	I	509	ASP	CB-CG-OD2	-7.31	111.72	118.30
1	G	571	VAL	CB-CA-C	-7.31	97.52	111.40
1	I	594	ASP	CB-CG-OD2	-7.31	111.72	118.30
1	L	571	VAL	CB-CA-C	-7.30	97.52	111.40
1	H	594	ASP	CB-CG-OD2	-7.30	111.73	118.30
1	O	571	VAL	CB-CA-C	-7.30	97.53	111.40
1	P	428	ASP	CB-CG-OD2	-7.30	111.73	118.30
1	H	571	VAL	CB-CA-C	-7.30	97.53	111.40
1	K	571	VAL	CB-CA-C	-7.30	97.53	111.40
1	M	594	ASP	CB-CG-OD2	-7.30	111.73	118.30
1	N	571	VAL	CB-CA-C	-7.30	97.53	111.40
1	J	571	VAL	CB-CA-C	-7.30	97.54	111.40
1	K	509	ASP	CB-CG-OD2	-7.29	111.73	118.30
1	B	571	VAL	CB-CA-C	-7.29	97.54	111.40
1	F	571	VAL	CB-CA-C	-7.29	97.54	111.40
1	B	428	ASP	CB-CG-OD2	-7.29	111.74	118.30
1	I	571	VAL	CB-CA-C	-7.29	97.55	111.40
1	M	571	VAL	CB-CA-C	-7.29	97.55	111.40
1	M	428	ASP	CB-CG-OD2	-7.29	111.74	118.30
1	P	594	ASP	CB-CG-OD2	-7.28	111.75	118.30
1	A	571	VAL	CB-CA-C	-7.28	97.56	111.40
1	K	428	ASP	CB-CG-OD2	-7.28	111.75	118.30
1	D	594	ASP	CB-CG-OD2	-7.27	111.75	118.30
1	E	571	VAL	CB-CA-C	-7.27	97.58	111.40
1	N	428	ASP	CB-CG-OD2	-7.27	111.76	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	428	ASP	CB-CG-OD2	-7.27	111.76	118.30
1	D	428	ASP	CB-CG-OD2	-7.27	111.76	118.30
1	O	492	ASP	CB-CG-OD2	-7.26	111.76	118.30
1	C	492	ASP	CB-CG-OD2	-7.26	111.77	118.30
1	J	428	ASP	CB-CG-OD2	-7.26	111.77	118.30
1	L	428	ASP	CB-CG-OD2	-7.26	111.77	118.30
1	E	492	ASP	CB-CG-OD2	-7.26	111.77	118.30
1	B	645	ARG	NE-CZ-NH1	7.25	123.93	120.30
1	G	492	ASP	CB-CG-OD2	-7.25	111.77	118.30
1	J	492	ASP	CB-CG-OD2	-7.25	111.78	118.30
1	K	492	ASP	CB-CG-OD2	-7.25	111.78	118.30
1	D	492	ASP	CB-CG-OD2	-7.25	111.78	118.30
1	I	492	ASP	CB-CG-OD2	-7.24	111.79	118.30
1	M	492	ASP	CB-CG-OD2	-7.23	111.80	118.30
1	P	492	ASP	CB-CG-OD2	-7.23	111.80	118.30
1	A	492	ASP	CB-CG-OD2	-7.21	111.81	118.30
1	G	428	ASP	CB-CG-OD2	-7.21	111.81	118.30
1	H	492	ASP	CB-CG-OD2	-7.21	111.81	118.30
1	B	492	ASP	CB-CG-OD2	-7.20	111.82	118.30
1	F	492	ASP	CB-CG-OD2	-7.20	111.82	118.30
1	N	492	ASP	CB-CG-OD2	-7.20	111.82	118.30
1	L	492	ASP	CB-CG-OD2	-7.19	111.83	118.30
1	P	645	ARG	NE-CZ-NH1	7.18	123.89	120.30
1	C	645	ARG	NE-CZ-NH1	7.18	123.89	120.30
1	L	645	ARG	NE-CZ-NH1	7.17	123.88	120.30
1	M	645	ARG	NE-CZ-NH1	7.15	123.88	120.30
1	O	645	ARG	NE-CZ-NH1	7.15	123.88	120.30
1	E	645	ARG	NE-CZ-NH1	7.13	123.87	120.30
1	F	645	ARG	NE-CZ-NH1	7.13	123.86	120.30
1	I	645	ARG	NE-CZ-NH1	7.13	123.86	120.30
1	N	645	ARG	NE-CZ-NH1	7.12	123.86	120.30
1	G	645	ARG	NE-CZ-NH1	7.11	123.86	120.30
1	H	645	ARG	NE-CZ-NH1	7.11	123.85	120.30
1	E	859	ASP	CB-CG-OD1	7.10	124.69	118.30
1	M	687	GLN	C-N-CD	-7.10	104.98	120.60
1	F	859	ASP	CB-CG-OD1	7.09	124.68	118.30
1	K	687	GLN	C-N-CD	-7.09	105.00	120.60
1	C	859	ASP	CB-CG-OD1	7.09	124.68	118.30
1	N	687	GLN	C-N-CD	-7.09	105.01	120.60
1	G	687	GLN	C-N-CD	-7.08	105.01	120.60
1	C	687	GLN	C-N-CD	-7.08	105.02	120.60
1	D	687	GLN	C-N-CD	-7.08	105.02	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	645	ARG	NE-CZ-NH1	7.08	123.84	120.30
1	P	687	GLN	C-N-CD	-7.08	105.01	120.60
1	J	687	GLN	C-N-CD	-7.08	105.02	120.60
1	B	687	GLN	C-N-CD	-7.08	105.03	120.60
1	I	687	GLN	C-N-CD	-7.08	105.03	120.60
1	L	687	GLN	C-N-CD	-7.08	105.03	120.60
1	I	859	ASP	CB-CG-OD1	7.07	124.66	118.30
1	A	687	GLN	C-N-CD	-7.07	105.05	120.60
1	F	687	GLN	C-N-CD	-7.07	105.05	120.60
1	A	859	ASP	CB-CG-OD1	7.07	124.66	118.30
1	D	645	ARG	NE-CZ-NH1	7.07	123.83	120.30
1	E	687	GLN	C-N-CD	-7.07	105.05	120.60
1	O	687	GLN	C-N-CD	-7.06	105.06	120.60
1	H	687	GLN	C-N-CD	-7.06	105.07	120.60
1	L	859	ASP	CB-CG-OD1	7.06	124.65	118.30
1	P	859	ASP	CB-CG-OD1	7.06	124.65	118.30
1	G	859	ASP	CB-CG-OD1	7.05	124.65	118.30
1	A	473	ARG	NE-CZ-NH1	7.05	123.82	120.30
1	D	859	ASP	CB-CG-OD1	7.05	124.64	118.30
1	J	859	ASP	CB-CG-OD1	7.05	124.64	118.30
1	H	859	ASP	CB-CG-OD1	7.04	124.64	118.30
1	B	859	ASP	CB-CG-OD1	7.04	124.63	118.30
1	J	645	ARG	NE-CZ-NH1	7.04	123.82	120.30
1	L	473	ARG	NE-CZ-NH1	7.04	123.82	120.30
1	D	473	ARG	NE-CZ-NH1	7.04	123.82	120.30
1	C	473	ARG	NE-CZ-NH1	7.03	123.81	120.30
1	O	859	ASP	CB-CG-OD1	7.03	124.62	118.30
1	O	473	ARG	NE-CZ-NH1	7.02	123.81	120.30
1	K	859	ASP	CB-CG-OD1	7.02	124.62	118.30
1	M	859	ASP	CB-CG-OD1	7.01	124.61	118.30
1	A	645	ARG	NE-CZ-NH1	7.01	123.80	120.30
1	K	473	ARG	NE-CZ-NH1	7.01	123.80	120.30
1	N	473	ARG	NE-CZ-NH1	7.01	123.80	120.30
1	I	473	ARG	NE-CZ-NH1	7.00	123.80	120.30
1	N	859	ASP	CB-CG-OD1	6.99	124.59	118.30
1	P	473	ARG	NE-CZ-NH1	6.97	123.79	120.30
1	F	473	ARG	NE-CZ-NH1	6.97	123.78	120.30
1	B	473	ARG	NE-CZ-NH1	6.96	123.78	120.30
1	H	473	ARG	NE-CZ-NH1	6.94	123.77	120.30
1	M	473	ARG	NE-CZ-NH1	6.93	123.77	120.30
1	E	473	ARG	NE-CZ-NH1	6.93	123.76	120.30
1	G	473	ARG	NE-CZ-NH1	6.92	123.76	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	473	ARG	NE-CZ-NH1	6.89	123.74	120.30
1	J	859	ASP	CB-CG-OD2	-6.86	112.13	118.30
1	N	447	ASP	CB-CG-OD2	-6.86	112.13	118.30
1	L	859	ASP	CB-CG-OD2	-6.85	112.13	118.30
1	C	447	ASP	CB-CG-OD2	-6.85	112.14	118.30
1	K	492	ASP	CB-CG-OD1	6.85	124.46	118.30
1	N	659	ASP	CB-CG-OD2	-6.85	112.14	118.30
1	L	447	ASP	CB-CG-OD2	-6.84	112.14	118.30
1	A	859	ASP	CB-CG-OD2	-6.84	112.15	118.30
1	P	859	ASP	CB-CG-OD2	-6.83	112.15	118.30
1	O	287	ASP	CB-CG-OD2	-6.83	112.15	118.30
1	I	287	ASP	CB-CG-OD2	-6.83	112.15	118.30
1	O	447	ASP	CB-CG-OD2	-6.83	112.16	118.30
1	G	859	ASP	CB-CG-OD2	-6.83	112.16	118.30
1	A	659	ASP	CB-CG-OD2	-6.82	112.16	118.30
1	P	659	ASP	CB-CG-OD2	-6.82	112.16	118.30
1	A	492	ASP	CB-CG-OD1	6.82	124.44	118.30
1	B	447	ASP	CB-CG-OD2	-6.82	112.16	118.30
1	I	234	ASP	CB-CG-OD1	6.82	124.44	118.30
1	E	859	ASP	CB-CG-OD2	-6.82	112.17	118.30
1	M	859	ASP	CB-CG-OD2	-6.82	112.17	118.30
1	J	287	ASP	CB-CG-OD2	-6.81	112.17	118.30
1	B	403	ASP	CB-CG-OD1	6.81	124.43	118.30
1	F	659	ASP	CB-CG-OD2	-6.81	112.17	118.30
1	C	234	ASP	CB-CG-OD1	6.81	124.43	118.30
1	F	447	ASP	CB-CG-OD2	-6.81	112.17	118.30
1	M	659	ASP	CB-CG-OD2	-6.81	112.17	118.30
1	O	859	ASP	CB-CG-OD2	-6.81	112.17	118.30
1	C	492	ASP	CB-CG-OD1	6.81	124.43	118.30
1	L	1004	SER	N-CA-CB	6.81	120.71	110.50
1	A	447	ASP	CB-CG-OD2	-6.80	112.17	118.30
1	C	659	ASP	CB-CG-OD2	-6.80	112.18	118.30
1	A	287	ASP	CB-CG-OD2	-6.80	112.18	118.30
1	C	403	ASP	CB-CG-OD1	6.80	124.42	118.30
1	P	492	ASP	CB-CG-OD1	6.80	124.42	118.30
1	A	1004	SER	N-CA-CB	6.80	120.70	110.50
1	J	1004	SER	N-CA-CB	6.80	120.70	110.50
1	P	447	ASP	CB-CG-OD2	-6.80	112.18	118.30
1	E	492	ASP	CB-CG-OD1	6.80	124.42	118.30
1	G	447	ASP	CB-CG-OD2	-6.80	112.18	118.30
1	H	492	ASP	CB-CG-OD1	6.80	124.42	118.30
1	M	447	ASP	CB-CG-OD2	-6.80	112.18	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	447	ASP	CB-CG-OD2	-6.79	112.18	118.30
1	D	859	ASP	CB-CG-OD2	-6.79	112.19	118.30
1	F	859	ASP	CB-CG-OD2	-6.79	112.19	118.30
1	J	234	ASP	CB-CG-OD1	6.79	124.42	118.30
1	L	492	ASP	CB-CG-OD1	6.79	124.41	118.30
1	O	659	ASP	CB-CG-OD2	-6.79	112.19	118.30
1	C	287	ASP	CB-CG-OD2	-6.79	112.19	118.30
1	D	287	ASP	CB-CG-OD2	-6.79	112.19	118.30
1	M	492	ASP	CB-CG-OD1	6.79	124.41	118.30
1	B	859	ASP	CB-CG-OD2	-6.79	112.19	118.30
1	C	859	ASP	CB-CG-OD2	-6.79	112.19	118.30
1	H	447	ASP	CB-CG-OD2	-6.79	112.19	118.30
1	E	447	ASP	CB-CG-OD2	-6.79	112.19	118.30
1	N	859	ASP	CB-CG-OD2	-6.79	112.19	118.30
1	N	287	ASP	CB-CG-OD2	-6.79	112.19	118.30
1	K	447	ASP	CB-CG-OD2	-6.78	112.20	118.30
1	D	447	ASP	CB-CG-OD2	-6.78	112.20	118.30
1	J	492	ASP	CB-CG-OD1	6.78	124.40	118.30
1	K	1004	SER	N-CA-CB	6.78	120.67	110.50
1	M	234	ASP	CB-CG-OD1	6.78	124.40	118.30
1	O	492	ASP	CB-CG-OD1	6.78	124.40	118.30
1	A	234	ASP	CB-CG-OD1	6.78	124.40	118.30
1	A	403	ASP	CB-CG-OD1	6.78	124.40	118.30
1	B	659	ASP	CB-CG-OD2	-6.78	112.20	118.30
1	E	659	ASP	CB-CG-OD2	-6.78	112.20	118.30
1	I	659	ASP	CB-CG-OD2	-6.78	112.20	118.30
1	L	287	ASP	CB-CG-OD2	-6.78	112.20	118.30
1	P	287	ASP	CB-CG-OD2	-6.78	112.20	118.30
1	G	287	ASP	CB-CG-OD2	-6.78	112.20	118.30
1	I	859	ASP	CB-CG-OD2	-6.78	112.20	118.30
1	K	859	ASP	CB-CG-OD2	-6.78	112.20	118.30
1	D	659	ASP	CB-CG-OD2	-6.77	112.20	118.30
1	B	832	ASP	CB-CG-OD2	-6.77	112.21	118.30
1	B	287	ASP	CB-CG-OD2	-6.77	112.21	118.30
1	G	492	ASP	CB-CG-OD1	6.77	124.39	118.30
1	I	447	ASP	CB-CG-OD2	-6.77	112.21	118.30
1	H	859	ASP	CB-CG-OD2	-6.77	112.21	118.30
1	K	287	ASP	CB-CG-OD2	-6.77	112.21	118.30
1	C	101	THR	N-CA-CB	6.77	123.16	110.30
1	P	1004	SER	N-CA-CB	6.77	120.65	110.50
1	A	201	ASP	CB-CG-OD1	6.76	124.39	118.30
1	D	101	THR	N-CA-CB	6.76	123.15	110.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	1004	SER	N-CA-CB	6.76	120.65	110.50
1	G	1004	SER	N-CA-CB	6.76	120.65	110.50
1	N	832	ASP	CB-CG-OD2	-6.76	112.21	118.30
1	I	403	ASP	CB-CG-OD1	6.76	124.39	118.30
1	M	287	ASP	CB-CG-OD2	-6.76	112.21	118.30
1	D	492	ASP	CB-CG-OD1	6.76	124.39	118.30
1	E	1004	SER	N-CA-CB	6.76	120.64	110.50
1	H	201	ASP	CB-CG-OD1	6.76	124.39	118.30
1	L	403	ASP	CB-CG-OD1	6.76	124.39	118.30
1	N	201	ASP	CB-CG-OD1	6.76	124.39	118.30
1	O	403	ASP	CB-CG-OD1	6.76	124.39	118.30
1	H	287	ASP	CB-CG-OD2	-6.76	112.22	118.30
1	K	659	ASP	CB-CG-OD2	-6.76	112.22	118.30
1	I	1004	SER	N-CA-CB	6.76	120.64	110.50
1	L	659	ASP	CB-CG-OD2	-6.76	112.22	118.30
1	O	234	ASP	CB-CG-OD1	6.76	124.38	118.30
1	F	234	ASP	CB-CG-OD1	6.76	124.38	118.30
1	I	492	ASP	CB-CG-OD1	6.76	124.38	118.30
1	N	492	ASP	CB-CG-OD1	6.76	124.38	118.30
1	H	659	ASP	CB-CG-OD2	-6.75	112.22	118.30
1	M	403	ASP	CB-CG-OD1	6.75	124.38	118.30
1	J	101	THR	N-CA-CB	6.75	123.13	110.30
1	N	1004	SER	N-CA-CB	6.75	120.63	110.50
1	E	101	THR	N-CA-CB	6.75	123.13	110.30
1	F	492	ASP	CB-CG-OD1	6.75	124.38	118.30
1	L	101	THR	N-CA-CB	6.75	123.13	110.30
1	O	201	ASP	CB-CG-OD1	6.75	124.38	118.30
1	P	234	ASP	CB-CG-OD1	6.75	124.38	118.30
1	G	234	ASP	CB-CG-OD1	6.75	124.38	118.30
1	J	659	ASP	CB-CG-OD2	-6.75	112.22	118.30
1	K	234	ASP	CB-CG-OD1	6.75	124.38	118.30
1	N	101	THR	N-CA-CB	6.75	123.12	110.30
1	A	832	ASP	CB-CG-OD2	-6.75	112.23	118.30
1	D	234	ASP	CB-CG-OD1	6.75	124.37	118.30
1	E	287	ASP	CB-CG-OD2	-6.75	112.23	118.30
1	D	201	ASP	CB-CG-OD1	6.75	124.37	118.30
1	D	403	ASP	CB-CG-OD1	6.75	124.37	118.30
1	O	1004	SER	N-CA-CB	6.75	120.62	110.50
1	F	101	THR	N-CA-CB	6.74	123.11	110.30
1	F	403	ASP	CB-CG-OD1	6.74	124.37	118.30
1	K	101	THR	N-CA-CB	6.74	123.11	110.30
1	G	832	ASP	CB-CG-OD2	-6.74	112.23	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	234	ASP	CB-CG-OD1	6.74	124.37	118.30
1	E	403	ASP	CB-CG-OD1	6.74	124.37	118.30
1	B	1004	SER	N-CA-CB	6.74	120.61	110.50
1	H	101	THR	N-CA-CB	6.74	123.10	110.30
1	I	101	THR	N-CA-CB	6.74	123.11	110.30
1	M	832	ASP	CB-CG-OD2	-6.74	112.23	118.30
1	P	403	ASP	CB-CG-OD1	6.74	124.36	118.30
1	A	101	THR	N-CA-CB	6.74	123.10	110.30
1	B	101	THR	N-CA-CB	6.74	123.10	110.30
1	C	1004	SER	N-CA-CB	6.74	120.60	110.50
1	P	201	ASP	CB-CG-OD1	6.74	124.36	118.30
1	G	659	ASP	CB-CG-OD2	-6.73	112.24	118.30
1	H	1004	SER	N-CA-CB	6.73	120.60	110.50
1	N	403	ASP	CB-CG-OD1	6.73	124.36	118.30
1	F	1004	SER	N-CA-CB	6.73	120.60	110.50
1	F	287	ASP	CB-CG-OD2	-6.73	112.24	118.30
1	K	832	ASP	CB-CG-OD2	-6.73	112.24	118.30
1	M	101	THR	N-CA-CB	6.73	123.09	110.30
1	P	101	THR	N-CA-CB	6.73	123.09	110.30
1	B	492	ASP	CB-CG-OD1	6.73	124.36	118.30
1	F	832	ASP	CB-CG-OD2	-6.73	112.25	118.30
1	G	101	THR	N-CA-CB	6.73	123.08	110.30
1	H	832	ASP	CB-CG-OD2	-6.73	112.25	118.30
1	L	832	ASP	CB-CG-OD2	-6.73	112.25	118.30
1	M	1004	SER	N-CA-CB	6.73	120.59	110.50
1	H	403	ASP	CB-CG-OD1	6.72	124.35	118.30
1	O	101	THR	N-CA-CB	6.72	123.08	110.30
1	H	234	ASP	CB-CG-OD1	6.72	124.35	118.30
1	I	201	ASP	CB-CG-OD1	6.72	124.35	118.30
1	G	201	ASP	CB-CG-OD1	6.72	124.35	118.30
1	J	832	ASP	CB-CG-OD2	-6.72	112.25	118.30
1	N	234	ASP	CB-CG-OD1	6.72	124.35	118.30
1	J	201	ASP	CB-CG-OD1	6.72	124.35	118.30
1	E	234	ASP	CB-CG-OD1	6.72	124.34	118.30
1	B	234	ASP	CB-CG-OD1	6.71	124.34	118.30
1	E	832	ASP	CB-CG-OD2	-6.71	112.26	118.30
1	C	648	ASP	CB-CG-OD2	-6.71	112.27	118.30
1	E	201	ASP	CB-CG-OD1	6.70	124.33	118.30
1	G	403	ASP	CB-CG-OD1	6.70	124.33	118.30
1	P	832	ASP	CB-CG-OD2	-6.70	112.27	118.30
1	C	201	ASP	CB-CG-OD1	6.70	124.33	118.30
1	I	832	ASP	CB-CG-OD2	-6.70	112.27	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	403	ASP	CB-CG-OD1	6.70	124.33	118.30
1	P	648	ASP	CB-CG-OD2	-6.69	112.28	118.30
1	F	786	ARG	NE-CZ-NH1	6.69	123.65	120.30
1	B	201	ASP	CB-CG-OD1	6.69	124.32	118.30
1	J	403	ASP	CB-CG-OD1	6.69	124.32	118.30
1	F	201	ASP	CB-CG-OD1	6.68	124.32	118.30
1	K	201	ASP	CB-CG-OD1	6.68	124.31	118.30
1	C	809	ARG	NE-CZ-NH1	6.68	123.64	120.30
1	L	201	ASP	CB-CG-OD1	6.68	124.31	118.30
1	C	832	ASP	CB-CG-OD2	-6.68	112.29	118.30
1	O	832	ASP	CB-CG-OD2	-6.68	112.29	118.30
1	D	832	ASP	CB-CG-OD2	-6.67	112.30	118.30
1	I	648	ASP	CB-CG-OD2	-6.67	112.30	118.30
1	O	648	ASP	CB-CG-OD2	-6.67	112.30	118.30
1	G	648	ASP	CB-CG-OD2	-6.66	112.30	118.30
1	F	648	ASP	CB-CG-OD2	-6.66	112.31	118.30
1	G	809	ARG	NE-CZ-NH1	6.66	123.63	120.30
1	L	648	ASP	CB-CG-OD2	-6.66	112.31	118.30
1	P	786	ARG	NE-CZ-NH1	6.66	123.63	120.30
1	H	648	ASP	CB-CG-OD2	-6.66	112.31	118.30
1	M	201	ASP	CB-CG-OD1	6.65	124.28	118.30
1	B	648	ASP	CB-CG-OD2	-6.64	112.32	118.30
1	H	786	ARG	NE-CZ-NH1	6.64	123.62	120.30
1	J	786	ARG	NE-CZ-NH1	6.64	123.62	120.30
1	A	648	ASP	CB-CG-OD2	-6.64	112.33	118.30
1	D	648	ASP	CB-CG-OD2	-6.64	112.33	118.30
1	K	648	ASP	CB-CG-OD2	-6.64	112.33	118.30
1	M	166	ARG	NE-CZ-NH1	6.64	123.62	120.30
1	G	786	ARG	NE-CZ-NH1	6.63	123.62	120.30
1	M	648	ASP	CB-CG-OD2	-6.63	112.33	118.30
1	J	648	ASP	CB-CG-OD2	-6.63	112.33	118.30
1	C	166	ARG	NE-CZ-NH1	6.63	123.61	120.30
1	E	786	ARG	NE-CZ-NH1	6.63	123.61	120.30
1	E	648	ASP	CB-CG-OD2	-6.62	112.34	118.30
1	N	648	ASP	CB-CG-OD2	-6.62	112.34	118.30
1	B	786	ARG	NE-CZ-NH1	6.60	123.60	120.30
1	J	166	ARG	NE-CZ-NH1	6.60	123.60	120.30
1	J	234	ASP	CB-CG-OD2	-6.60	112.36	118.30
1	A	234	ASP	CB-CG-OD2	-6.59	112.37	118.30
1	I	199	ASP	CB-CG-OD1	6.59	124.23	118.30
1	I	809	ARG	NE-CZ-NH1	6.59	123.60	120.30
1	H	166	ARG	NE-CZ-NH1	6.59	123.59	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	786	ARG	NE-CZ-NH1	6.59	123.59	120.30
1	O	809	ARG	NE-CZ-NH1	6.58	123.59	120.30
1	M	234	ASP	CB-CG-OD2	-6.58	112.38	118.30
1	I	786	ARG	NE-CZ-NH1	6.58	123.59	120.30
1	K	199	ASP	CB-CG-OD1	6.58	124.22	118.30
1	P	234	ASP	CB-CG-OD2	-6.58	112.38	118.30
1	L	166	ARG	NE-CZ-NH1	6.58	123.59	120.30
1	C	234	ASP	CB-CG-OD2	-6.57	112.38	118.30
1	L	234	ASP	CB-CG-OD2	-6.57	112.39	118.30
1	D	234	ASP	CB-CG-OD2	-6.57	112.39	118.30
1	I	234	ASP	CB-CG-OD2	-6.57	112.39	118.30
1	M	809	ARG	NE-CZ-NH1	6.57	123.58	120.30
1	M	786	ARG	NE-CZ-NH1	6.57	123.58	120.30
1	A	809	ARG	NE-CZ-NH1	6.56	123.58	120.30
1	P	199	ASP	CB-CG-OD1	6.56	124.21	118.30
1	B	234	ASP	CB-CG-OD2	-6.56	112.39	118.30
1	A	166	ARG	NE-CZ-NH1	6.56	123.58	120.30
1	F	809	ARG	NE-CZ-NH1	6.56	123.58	120.30
1	B	809	ARG	NE-CZ-NH1	6.56	123.58	120.30
1	D	199	ASP	CB-CG-OD1	6.56	124.20	118.30
1	O	166	ARG	NE-CZ-NH1	6.56	123.58	120.30
1	E	234	ASP	CB-CG-OD2	-6.55	112.40	118.30
1	H	199	ASP	CB-CG-OD1	6.55	124.20	118.30
1	M	199	ASP	CB-CG-OD1	6.55	124.20	118.30
1	J	809	ARG	NE-CZ-NH1	6.55	123.58	120.30
1	N	786	ARG	NE-CZ-NH1	6.55	123.58	120.30
1	O	786	ARG	NE-CZ-NH1	6.55	123.57	120.30
1	A	786	ARG	NE-CZ-NH1	6.55	123.57	120.30
1	E	809	ARG	NE-CZ-NH1	6.54	123.57	120.30
1	F	234	ASP	CB-CG-OD2	-6.54	112.41	118.30
1	H	234	ASP	CB-CG-OD2	-6.54	112.41	118.30
1	C	199	ASP	CB-CG-OD1	6.54	124.18	118.30
1	H	809	ARG	NE-CZ-NH1	6.54	123.57	120.30
1	N	234	ASP	CB-CG-OD2	-6.54	112.42	118.30
1	K	809	ARG	NE-CZ-NH1	6.53	123.57	120.30
1	L	809	ARG	NE-CZ-NH1	6.53	123.57	120.30
1	O	199	ASP	CB-CG-OD1	6.53	124.18	118.30
1	K	234	ASP	CB-CG-OD2	-6.53	112.42	118.30
1	B	199	ASP	CB-CG-OD1	6.53	124.17	118.30
1	D	809	ARG	NE-CZ-NH1	6.52	123.56	120.30
1	L	786	ARG	NE-CZ-NH1	6.52	123.56	120.30
1	F	199	ASP	CB-CG-OD1	6.52	124.17	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	201	ASP	CB-CG-OD2	-6.52	112.43	118.30
1	O	234	ASP	CB-CG-OD2	-6.52	112.43	118.30
1	E	199	ASP	CB-CG-OD1	6.52	124.16	118.30
1	P	809	ARG	NE-CZ-NH1	6.52	123.56	120.30
1	D	786	ARG	NE-CZ-NH1	6.51	123.56	120.30
1	L	199	ASP	CB-CG-OD1	6.51	124.16	118.30
1	N	201	ASP	CB-CG-OD2	-6.51	112.44	118.30
1	C	786	ARG	NE-CZ-NH1	6.51	123.56	120.30
1	K	166	ARG	NE-CZ-NH1	6.51	123.56	120.30
1	J	199	ASP	CB-CG-OD1	6.51	124.16	118.30
1	N	166	ARG	NE-CZ-NH1	6.51	123.55	120.30
1	N	199	ASP	CB-CG-OD1	6.51	124.16	118.30
1	A	199	ASP	CB-CG-OD1	6.51	124.16	118.30
1	G	234	ASP	CB-CG-OD2	-6.50	112.44	118.30
1	N	809	ARG	NE-CZ-NH1	6.50	123.55	120.30
1	P	319	ASP	CB-CG-OD2	-6.50	112.45	118.30
1	G	166	ARG	NE-CZ-NH1	6.50	123.55	120.30
1	I	166	ARG	NE-CZ-NH1	6.50	123.55	120.30
1	B	166	ARG	NE-CZ-NH1	6.49	123.55	120.30
1	G	199	ASP	CB-CG-OD1	6.49	124.14	118.30
1	J	201	ASP	CB-CG-OD2	-6.49	112.46	118.30
1	D	201	ASP	CB-CG-OD2	-6.49	112.46	118.30
1	E	201	ASP	CB-CG-OD2	-6.49	112.46	118.30
1	M	201	ASP	CB-CG-OD2	-6.48	112.47	118.30
1	O	201	ASP	CB-CG-OD2	-6.48	112.47	118.30
1	G	201	ASP	CB-CG-OD2	-6.47	112.48	118.30
1	F	201	ASP	CB-CG-OD2	-6.46	112.48	118.30
1	E	166	ARG	NE-CZ-NH1	6.46	123.53	120.30
1	F	319	ASP	CB-CG-OD2	-6.46	112.48	118.30
1	C	769	TRP	CB-CA-C	-6.46	97.49	110.40
1	I	45	ASP	CB-CG-OD1	6.45	124.11	118.30
1	J	319	ASP	CB-CG-OD2	-6.45	112.49	118.30
1	C	201	ASP	CB-CG-OD2	-6.45	112.49	118.30
1	D	166	ARG	NE-CZ-NH1	6.45	123.53	120.30
1	K	201	ASP	CB-CG-OD2	-6.45	112.50	118.30
1	L	319	ASP	CB-CG-OD2	-6.45	112.50	118.30
1	B	201	ASP	CB-CG-OD2	-6.44	112.50	118.30
1	F	166	ARG	NE-CZ-NH1	6.44	123.52	120.30
1	I	201	ASP	CB-CG-OD2	-6.44	112.50	118.30
1	E	769	TRP	CB-CA-C	-6.44	97.52	110.40
1	F	769	TRP	CB-CA-C	-6.44	97.52	110.40
1	M	769	TRP	CB-CA-C	-6.44	97.52	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	201	ASP	CB-CG-OD2	-6.44	112.50	118.30
1	H	769	TRP	CB-CA-C	-6.44	97.52	110.40
1	J	769	TRP	CB-CA-C	-6.44	97.52	110.40
1	L	201	ASP	CB-CG-OD2	-6.44	112.51	118.30
1	G	769	TRP	CB-CA-C	-6.43	97.53	110.40
1	P	166	ARG	NE-CZ-NH1	6.43	123.52	120.30
1	A	319	ASP	CB-CG-OD2	-6.43	112.51	118.30
1	F	45	ASP	CB-CG-OD1	6.43	124.09	118.30
1	P	769	TRP	CB-CA-C	-6.43	97.54	110.40
1	A	201	ASP	CB-CG-OD2	-6.43	112.51	118.30
1	B	769	TRP	CB-CA-C	-6.43	97.54	110.40
1	L	769	TRP	CB-CA-C	-6.43	97.54	110.40
1	I	769	TRP	CB-CA-C	-6.43	97.55	110.40
1	E	319	ASP	CB-CG-OD2	-6.43	112.52	118.30
1	B	319	ASP	CB-CG-OD2	-6.42	112.52	118.30
1	K	769	TRP	CB-CA-C	-6.42	97.55	110.40
1	M	319	ASP	CB-CG-OD2	-6.42	112.52	118.30
1	P	252	ASP	CB-CG-OD2	-6.42	112.52	118.30
1	N	769	TRP	CB-CA-C	-6.42	97.55	110.40
1	D	769	TRP	CB-CA-C	-6.42	97.56	110.40
1	O	769	TRP	CB-CA-C	-6.42	97.56	110.40
1	A	769	TRP	CB-CA-C	-6.42	97.56	110.40
1	D	319	ASP	CB-CG-OD2	-6.42	112.52	118.30
1	G	319	ASP	CB-CG-OD2	-6.42	112.52	118.30
1	H	45	ASP	CB-CG-OD1	6.42	124.08	118.30
1	B	45	ASP	CB-CG-OD1	6.42	124.07	118.30
1	C	252	ASP	CB-CG-OD2	-6.42	112.53	118.30
1	P	45	ASP	CB-CG-OD1	6.41	124.07	118.30
1	C	45	ASP	CB-CG-OD1	6.41	124.07	118.30
1	J	252	ASP	CB-CG-OD2	-6.41	112.53	118.30
1	K	252	ASP	CB-CG-OD2	-6.41	112.53	118.30
1	D	45	ASP	CB-CG-OD1	6.41	124.07	118.30
1	F	579	ASP	CB-CG-OD1	6.41	124.06	118.30
1	K	319	ASP	CB-CG-OD2	-6.41	112.53	118.30
1	I	319	ASP	CB-CG-OD2	-6.40	112.54	118.30
1	J	45	ASP	CB-CG-OD1	6.40	124.06	118.30
1	D	579	ASP	CB-CG-OD1	6.40	124.06	118.30
1	G	579	ASP	CB-CG-OD1	6.40	124.06	118.30
1	N	319	ASP	CB-CG-OD2	-6.40	112.54	118.30
1	C	319	ASP	CB-CG-OD2	-6.40	112.54	118.30
1	O	96	ASP	CB-CG-OD2	-6.40	112.54	118.30
1	A	252	ASP	CB-CG-OD2	-6.39	112.54	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	252	ASP	CB-CG-OD2	-6.39	112.55	118.30
1	L	96	ASP	CB-CG-OD2	-6.39	112.55	118.30
1	H	319	ASP	CB-CG-OD2	-6.39	112.55	118.30
1	L	45	ASP	CB-CG-OD1	6.39	124.05	118.30
1	L	252	ASP	CB-CG-OD2	-6.39	112.55	118.30
1	B	579	ASP	CB-CG-OD1	6.38	124.05	118.30
1	K	579	ASP	CB-CG-OD1	6.38	124.05	118.30
1	A	172	ASP	CB-CG-OD2	-6.38	112.56	118.30
1	F	252	ASP	CB-CG-OD2	-6.38	112.56	118.30
1	I	252	ASP	CB-CG-OD2	-6.38	112.56	118.30
1	M	45	ASP	CB-CG-OD1	6.38	124.04	118.30
1	B	252	ASP	CB-CG-OD2	-6.38	112.56	118.30
1	M	252	ASP	CB-CG-OD2	-6.38	112.56	118.30
1	G	252	ASP	CB-CG-OD2	-6.38	112.56	118.30
1	I	172	ASP	CB-CG-OD2	-6.37	112.56	118.30
1	J	579	ASP	CB-CG-OD1	6.37	124.04	118.30
1	A	96	ASP	CB-CG-OD2	-6.37	112.56	118.30
1	N	5	ASP	CB-CG-OD2	-6.37	112.57	118.30
1	N	579	ASP	CB-CG-OD1	6.37	124.03	118.30
1	D	96	ASP	CB-CG-OD2	-6.37	112.57	118.30
1	K	45	ASP	CB-CG-OD1	6.37	124.03	118.30
1	D	252	ASP	CB-CG-OD2	-6.37	112.57	118.30
1	E	96	ASP	CB-CG-OD2	-6.37	112.57	118.30
1	H	579	ASP	CB-CG-OD1	6.37	124.03	118.30
1	P	5	ASP	CB-CG-OD2	-6.37	112.57	118.30
1	C	579	ASP	CB-CG-OD1	6.37	124.03	118.30
1	E	252	ASP	CB-CG-OD2	-6.37	112.57	118.30
1	P	579	ASP	CB-CG-OD1	6.37	124.03	118.30
1	B	96	ASP	CB-CG-OD2	-6.36	112.57	118.30
1	C	96	ASP	CB-CG-OD2	-6.36	112.57	118.30
1	O	45	ASP	CB-CG-OD1	6.36	124.03	118.30
1	O	252	ASP	CB-CG-OD2	-6.36	112.57	118.30
1	O	319	ASP	CB-CG-OD2	-6.36	112.57	118.30
1	G	5	ASP	CB-CG-OD2	-6.36	112.57	118.30
1	E	579	ASP	CB-CG-OD1	6.36	124.03	118.30
1	I	579	ASP	CB-CG-OD1	6.36	124.03	118.30
1	L	598	ASP	CB-CG-OD1	6.36	124.03	118.30
1	G	45	ASP	CB-CG-OD1	6.36	124.02	118.30
1	H	5	ASP	CB-CG-OD2	-6.36	112.58	118.30
1	O	5	ASP	CB-CG-OD2	-6.36	112.58	118.30
1	E	45	ASP	CB-CG-OD1	6.35	124.02	118.30
1	N	96	ASP	CB-CG-OD2	-6.35	112.58	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	598	ASP	CB-CG-OD1	6.35	124.02	118.30
1	A	598	ASP	CB-CG-OD1	6.35	124.02	118.30
1	G	96	ASP	CB-CG-OD2	-6.35	112.58	118.30
1	I	96	ASP	CB-CG-OD2	-6.35	112.58	118.30
1	M	5	ASP	CB-CG-OD2	-6.35	112.58	118.30
1	N	45	ASP	CB-CG-OD1	6.35	124.02	118.30
1	H	598	ASP	CB-CG-OD1	6.35	124.02	118.30
1	L	579	ASP	CB-CG-OD1	6.35	124.02	118.30
1	E	5	ASP	CB-CG-OD2	-6.35	112.58	118.30
1	P	96	ASP	CB-CG-OD2	-6.35	112.59	118.30
1	A	579	ASP	CB-CG-OD1	6.35	124.01	118.30
1	O	579	ASP	CB-CG-OD1	6.35	124.01	118.30
1	B	172	ASP	CB-CG-OD2	-6.35	112.59	118.30
1	G	598	ASP	CB-CG-OD1	6.35	124.01	118.30
1	D	875	ASP	CB-CG-OD2	-6.34	112.59	118.30
1	E	598	ASP	CB-CG-OD1	6.34	124.01	118.30
1	G	553	TRP	CA-CB-CG	-6.34	101.65	113.70
1	M	579	ASP	CB-CG-OD1	6.34	124.01	118.30
1	H	193	ASP	CB-CG-OD2	-6.34	112.59	118.30
1	H	210	ARG	NE-CZ-NH1	6.34	123.47	120.30
1	I	5	ASP	CB-CG-OD2	-6.34	112.59	118.30
1	I	553	TRP	CA-CB-CG	-6.34	101.66	113.70
1	O	172	ASP	CB-CG-OD2	-6.34	112.59	118.30
1	J	96	ASP	CB-CG-OD2	-6.34	112.60	118.30
1	J	553	TRP	CA-CB-CG	-6.34	101.66	113.70
1	M	553	TRP	CA-CB-CG	-6.34	101.66	113.70
1	C	172	ASP	CB-CG-OD2	-6.34	112.60	118.30
1	G	172	ASP	CB-CG-OD2	-6.34	112.60	118.30
1	K	553	TRP	CA-CB-CG	-6.34	101.66	113.70
1	L	553	TRP	CA-CB-CG	-6.34	101.66	113.70
1	M	96	ASP	CB-CG-OD2	-6.34	112.60	118.30
1	O	553	TRP	CA-CB-CG	-6.34	101.66	113.70
1	A	45	ASP	CB-CG-OD1	6.33	124.00	118.30
1	F	5	ASP	CB-CG-OD2	-6.33	112.60	118.30
1	J	598	ASP	CB-CG-OD1	6.33	124.00	118.30
1	D	598	ASP	CB-CG-OD1	6.33	124.00	118.30
1	H	553	TRP	CA-CB-CG	-6.33	101.67	113.70
1	K	193	ASP	CB-CG-OD2	-6.33	112.60	118.30
1	H	252	ASP	CB-CG-OD2	-6.33	112.60	118.30
1	K	96	ASP	CB-CG-OD2	-6.33	112.61	118.30
1	N	553	TRP	CA-CB-CG	-6.33	101.68	113.70
1	P	193	ASP	CB-CG-OD2	-6.33	112.60	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	553	TRP	CA-CB-CG	-6.33	101.68	113.70
1	F	553	TRP	CA-CB-CG	-6.33	101.68	113.70
1	P	598	ASP	CB-CG-OD1	6.33	123.99	118.30
1	D	553	TRP	CA-CB-CG	-6.32	101.69	113.70
1	E	172	ASP	CB-CG-OD2	-6.32	112.61	118.30
1	H	172	ASP	CB-CG-OD2	-6.32	112.61	118.30
1	N	193	ASP	CB-CG-OD2	-6.32	112.61	118.30
1	P	553	TRP	CA-CB-CG	-6.32	101.69	113.70
1	E	553	TRP	CA-CB-CG	-6.32	101.69	113.70
1	H	96	ASP	CB-CG-OD2	-6.32	112.61	118.30
1	F	96	ASP	CB-CG-OD2	-6.32	112.61	118.30
1	C	5	ASP	CB-CG-OD2	-6.32	112.61	118.30
1	K	598	ASP	CB-CG-OD1	6.32	123.98	118.30
1	L	46	ARG	NE-CZ-NH1	6.32	123.46	120.30
1	D	172	ASP	CB-CG-OD2	-6.32	112.62	118.30
1	F	172	ASP	CB-CG-OD2	-6.32	112.62	118.30
1	J	5	ASP	CB-CG-OD2	-6.32	112.62	118.30
1	L	5	ASP	CB-CG-OD2	-6.31	112.62	118.30
1	D	5	ASP	CB-CG-OD2	-6.31	112.62	118.30
1	J	875	ASP	CB-CG-OD2	-6.31	112.62	118.30
1	B	5	ASP	CB-CG-OD2	-6.31	112.62	118.30
1	B	553	TRP	CA-CB-CG	-6.31	101.71	113.70
1	C	193	ASP	CB-CG-OD2	-6.31	112.62	118.30
1	P	172	ASP	CB-CG-OD2	-6.31	112.62	118.30
1	K	172	ASP	CB-CG-OD2	-6.31	112.62	118.30
1	O	193	ASP	CB-CG-OD2	-6.31	112.62	118.30
1	A	553	TRP	CA-CB-CG	-6.31	101.72	113.70
1	G	193	ASP	CB-CG-OD2	-6.30	112.62	118.30
1	I	1018	LEU	N-CA-CB	-6.30	97.79	110.40
1	J	1018	LEU	N-CA-CB	-6.30	97.81	110.40
1	L	172	ASP	CB-CG-OD2	-6.30	112.63	118.30
1	L	193	ASP	CB-CG-OD2	-6.30	112.63	118.30
1	F	875	ASP	CB-CG-OD2	-6.29	112.63	118.30
1	A	1018	LEU	N-CA-CB	-6.29	97.81	110.40
1	B	598	ASP	CB-CG-OD1	6.29	123.96	118.30
1	F	598	ASP	CB-CG-OD1	6.29	123.96	118.30
1	I	598	ASP	CB-CG-OD1	6.29	123.96	118.30
1	C	598	ASP	CB-CG-OD1	6.29	123.96	118.30
1	F	193	ASP	CB-CG-OD2	-6.29	112.64	118.30
1	J	193	ASP	CB-CG-OD2	-6.29	112.64	118.30
1	A	193	ASP	CB-CG-OD2	-6.29	112.64	118.30
1	G	1018	LEU	N-CA-CB	-6.29	97.82	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	1018	LEU	N-CA-CB	-6.29	97.82	110.40
1	N	1018	LEU	N-CA-CB	-6.29	97.82	110.40
1	P	1018	LEU	N-CA-CB	-6.29	97.82	110.40
1	O	1018	LEU	N-CA-CB	-6.29	97.83	110.40
1	B	193	ASP	CB-CG-OD2	-6.29	112.64	118.30
1	C	1018	LEU	N-CA-CB	-6.29	97.83	110.40
1	D	1018	LEU	N-CA-CB	-6.29	97.83	110.40
1	F	1018	LEU	N-CA-CB	-6.29	97.83	110.40
1	A	875	ASP	CB-CG-OD2	-6.28	112.64	118.30
1	K	5	ASP	CB-CG-OD2	-6.28	112.64	118.30
1	M	1018	LEU	N-CA-CB	-6.28	97.83	110.40
1	L	1018	LEU	N-CA-CB	-6.28	97.84	110.40
1	M	598	ASP	CB-CG-OD1	6.28	123.95	118.30
1	I	875	ASP	CB-CG-OD2	-6.28	112.65	118.30
1	J	172	ASP	CB-CG-OD2	-6.28	112.65	118.30
1	G	46	ARG	NE-CZ-NH1	6.28	123.44	120.30
1	N	172	ASP	CB-CG-OD2	-6.28	112.65	118.30
1	O	875	ASP	CB-CG-OD2	-6.28	112.65	118.30
1	D	193	ASP	CB-CG-OD2	-6.28	112.65	118.30
1	N	598	ASP	CB-CG-OD1	6.28	123.95	118.30
1	C	875	ASP	CB-CG-OD2	-6.27	112.65	118.30
1	H	1018	LEU	N-CA-CB	-6.27	97.85	110.40
1	M	193	ASP	CB-CG-OD2	-6.27	112.66	118.30
1	P	909	ARG	NE-CZ-NH1	6.27	123.44	120.30
1	M	875	ASP	CB-CG-OD2	-6.27	112.66	118.30
1	E	1018	LEU	N-CA-CB	-6.27	97.86	110.40
1	K	46	ARG	NE-CZ-NH1	6.27	123.43	120.30
1	M	172	ASP	CB-CG-OD2	-6.27	112.66	118.30
1	O	909	ARG	NE-CZ-NH1	6.26	123.43	120.30
1	G	875	ASP	CB-CG-OD2	-6.26	112.67	118.30
1	N	46	ARG	NE-CZ-NH1	6.26	123.43	120.30
1	A	5	ASP	CB-CG-OD2	-6.26	112.67	118.30
1	I	193	ASP	CB-CG-OD2	-6.26	112.67	118.30
1	B	210	ARG	NE-CZ-NH1	6.26	123.43	120.30
1	I	46	ARG	NE-CZ-NH1	6.26	123.43	120.30
1	J	45	ASP	CB-CG-OD2	-6.26	112.67	118.30
1	L	875	ASP	CB-CG-OD2	-6.26	112.67	118.30
1	P	875	ASP	CB-CG-OD2	-6.26	112.67	118.30
1	K	875	ASP	CB-CG-OD2	-6.25	112.67	118.30
1	E	193	ASP	CB-CG-OD2	-6.25	112.67	118.30
1	I	45	ASP	CB-CG-OD2	-6.25	112.67	118.30
1	E	909	ARG	NE-CZ-NH1	6.25	123.43	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	875	ASP	CB-CG-OD2	-6.25	112.68	118.30
1	H	46	ARG	NE-CZ-NH1	6.25	123.42	120.30
1	K	909	ARG	NE-CZ-NH1	6.25	123.42	120.30
1	N	875	ASP	CB-CG-OD2	-6.25	112.68	118.30
1	B	1018	LEU	N-CA-CB	-6.24	97.91	110.40
1	F	46	ARG	NE-CZ-NH1	6.24	123.42	120.30
1	D	45	ASP	CB-CG-OD2	-6.24	112.68	118.30
1	H	875	ASP	CB-CG-OD2	-6.24	112.68	118.30
1	N	909	ARG	NE-CZ-NH1	6.24	123.42	120.30
1	D	210	ARG	NE-CZ-NH1	6.24	123.42	120.30
1	A	46	ARG	NE-CZ-NH1	6.23	123.42	120.30
1	F	45	ASP	CB-CG-OD2	-6.23	112.69	118.30
1	B	875	ASP	CB-CG-OD2	-6.23	112.69	118.30
1	H	45	ASP	CB-CG-OD2	-6.23	112.69	118.30
1	P	45	ASP	CB-CG-OD2	-6.23	112.69	118.30
1	P	46	ARG	NE-CZ-NH1	6.23	123.42	120.30
1	O	45	ASP	CB-CG-OD2	-6.23	112.69	118.30
1	E	45	ASP	CB-CG-OD2	-6.22	112.70	118.30
1	M	45	ASP	CB-CG-OD2	-6.22	112.70	118.30
1	M	909	ARG	NE-CZ-NH1	6.22	123.41	120.30
1	E	210	ARG	NE-CZ-NH1	6.21	123.41	120.30
1	L	45	ASP	CB-CG-OD2	-6.21	112.72	118.30
1	O	579	ASP	CB-CG-OD2	-6.21	112.72	118.30
1	B	45	ASP	CB-CG-OD2	-6.20	112.72	118.30
1	B	579	ASP	CB-CG-OD2	-6.20	112.72	118.30
1	D	909	ARG	NE-CZ-NH1	6.20	123.40	120.30
1	A	45	ASP	CB-CG-OD2	-6.20	112.72	118.30
1	O	46	ARG	NE-CZ-NH1	6.20	123.40	120.30
1	I	210	ARG	NE-CZ-NH1	6.19	123.40	120.30
1	C	45	ASP	CB-CG-OD2	-6.19	112.73	118.30
1	G	45	ASP	CB-CG-OD2	-6.19	112.73	118.30
1	E	579	ASP	CB-CG-OD2	-6.19	112.73	118.30
1	M	210	ARG	NE-CZ-NH1	6.19	123.39	120.30
1	N	210	ARG	NE-CZ-NH1	6.19	123.39	120.30
1	I	579	ASP	CB-CG-OD2	-6.18	112.73	118.30
1	C	210	ARG	NE-CZ-NH1	6.18	123.39	120.30
1	H	579	ASP	CB-CG-OD2	-6.18	112.74	118.30
1	B	46	ARG	NE-CZ-NH1	6.18	123.39	120.30
1	L	579	ASP	CB-CG-OD2	-6.18	112.74	118.30
1	L	909	ARG	NE-CZ-NH1	6.18	123.39	120.30
1	C	403	ASP	CB-CG-OD2	-6.18	112.74	118.30
1	F	579	ASP	CB-CG-OD2	-6.18	112.74	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	579	ASP	CB-CG-OD2	-6.18	112.74	118.30
1	N	45	ASP	CB-CG-OD2	-6.18	112.74	118.30
1	J	579	ASP	CB-CG-OD2	-6.18	112.74	118.30
1	D	46	ARG	NE-CZ-NH1	6.18	123.39	120.30
1	N	193	ASP	CB-CG-OD1	6.17	123.86	118.30
1	E	46	ARG	NE-CZ-NH1	6.17	123.38	120.30
1	K	579	ASP	CB-CG-OD2	-6.17	112.75	118.30
1	N	579	ASP	CB-CG-OD2	-6.17	112.75	118.30
1	G	579	ASP	CB-CG-OD2	-6.16	112.75	118.30
1	K	45	ASP	CB-CG-OD2	-6.16	112.75	118.30
1	M	46	ARG	NE-CZ-NH1	6.16	123.38	120.30
1	O	210	ARG	NE-CZ-NH1	6.16	123.38	120.30
1	K	52	ARG	NE-CZ-NH1	6.16	123.38	120.30
1	P	356	ARG	NE-CZ-NH2	-6.16	117.22	120.30
1	C	46	ARG	NE-CZ-NH1	6.16	123.38	120.30
1	D	579	ASP	CB-CG-OD2	-6.16	112.76	118.30
1	J	210	ARG	NE-CZ-NH1	6.16	123.38	120.30
1	A	579	ASP	CB-CG-OD2	-6.15	112.76	118.30
1	C	579	ASP	CB-CG-OD2	-6.15	112.76	118.30
1	F	403	ASP	CB-CG-OD2	-6.15	112.77	118.30
1	J	46	ARG	NE-CZ-NH1	6.14	123.37	120.30
1	A	403	ASP	CB-CG-OD2	-6.14	112.77	118.30
1	C	356	ARG	NE-CZ-NH2	-6.14	117.23	120.30
1	F	996	ASP	CB-CG-OD2	-6.14	112.77	118.30
1	L	210	ARG	NE-CZ-NH1	6.14	123.37	120.30
1	F	909	ARG	NE-CZ-NH1	6.14	123.37	120.30
1	A	210	ARG	NE-CZ-NH1	6.14	123.37	120.30
1	A	909	ARG	NE-CZ-NH1	6.14	123.37	120.30
1	C	909	ARG	NE-CZ-NH1	6.13	123.37	120.30
1	F	210	ARG	NE-CZ-NH1	6.13	123.37	120.30
1	P	579	ASP	CB-CG-OD2	-6.13	112.78	118.30
1	P	403	ASP	CB-CG-OD2	-6.13	112.78	118.30
1	B	193	ASP	CB-CG-OD1	6.13	123.82	118.30
1	D	403	ASP	CB-CG-OD2	-6.13	112.78	118.30
1	N	996	ASP	CB-CG-OD2	-6.13	112.78	118.30
1	A	193	ASP	CB-CG-OD1	6.13	123.81	118.30
1	I	909	ARG	NE-CZ-NH1	6.13	123.36	120.30
1	J	996	ASP	CB-CG-OD2	-6.13	112.78	118.30
1	O	997	ASP	CB-CG-OD2	-6.13	112.79	118.30
1	O	403	ASP	CB-CG-OD2	-6.12	112.79	118.30
1	A	996	ASP	CB-CG-OD2	-6.12	112.79	118.30
1	I	996	ASP	CB-CG-OD2	-6.12	112.79	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	356	ARG	NE-CZ-NH2	-6.12	117.24	120.30
1	P	193	ASP	CB-CG-OD1	6.12	123.81	118.30
1	G	210	ARG	NE-CZ-NH1	6.12	123.36	120.30
1	H	193	ASP	CB-CG-OD1	6.12	123.81	118.30
1	J	403	ASP	CB-CG-OD2	-6.12	112.79	118.30
1	N	403	ASP	CB-CG-OD2	-6.12	112.79	118.30
1	E	403	ASP	CB-CG-OD2	-6.12	112.79	118.30
1	B	403	ASP	CB-CG-OD2	-6.11	112.80	118.30
1	G	916	ASP	CB-CG-OD1	6.11	123.80	118.30
1	I	52	ARG	NE-CZ-NH1	6.11	123.36	120.30
1	P	996	ASP	CB-CG-OD2	-6.11	112.80	118.30
1	I	193	ASP	CB-CG-OD1	6.11	123.80	118.30
1	J	916	ASP	CB-CG-OD1	6.11	123.80	118.30
1	K	996	ASP	CB-CG-OD2	-6.11	112.80	118.30
1	O	193	ASP	CB-CG-OD1	6.11	123.80	118.30
1	J	193	ASP	CB-CG-OD1	6.10	123.79	118.30
1	A	52	ARG	NE-CZ-NH1	6.10	123.35	120.30
1	B	909	ARG	NE-CZ-NH1	6.10	123.35	120.30
1	M	996	ASP	CB-CG-OD2	-6.10	112.81	118.30
1	L	193	ASP	CB-CG-OD1	6.10	123.79	118.30
1	M	916	ASP	CB-CG-OD1	6.10	123.79	118.30
1	P	997	ASP	CB-CG-OD2	-6.10	112.81	118.30
1	B	52	ARG	NE-CZ-NH1	6.10	123.35	120.30
1	G	996	ASP	CB-CG-OD2	-6.10	112.81	118.30
1	H	997	ASP	CB-CG-OD2	-6.10	112.81	118.30
1	L	52	ARG	NE-CZ-NH1	6.10	123.35	120.30
1	P	210	ARG	NE-CZ-NH1	6.10	123.35	120.30
1	E	997	ASP	CB-CG-OD2	-6.10	112.81	118.30
1	H	233	ASP	CB-CG-OD1	6.10	123.79	118.30
1	H	996	ASP	CB-CG-OD2	-6.10	112.81	118.30
1	H	403	ASP	CB-CG-OD2	-6.09	112.81	118.30
1	I	403	ASP	CB-CG-OD2	-6.09	112.81	118.30
1	K	997	ASP	CB-CG-OD2	-6.09	112.81	118.30
1	M	403	ASP	CB-CG-OD2	-6.09	112.81	118.30
1	C	997	ASP	CB-CG-OD2	-6.09	112.82	118.30
1	G	193	ASP	CB-CG-OD1	6.09	123.78	118.30
1	G	403	ASP	CB-CG-OD2	-6.09	112.82	118.30
1	M	997	ASP	CB-CG-OD2	-6.09	112.82	118.30
1	O	52	ARG	NE-CZ-NH1	6.09	123.35	120.30
1	D	916	ASP	CB-CG-OD1	6.09	123.78	118.30
1	F	193	ASP	CB-CG-OD1	6.09	123.78	118.30
1	L	916	ASP	CB-CG-OD1	6.09	123.78	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	193	ASP	CB-CG-OD1	6.09	123.78	118.30
1	P	52	ARG	NE-CZ-NH1	6.09	123.34	120.30
1	J	909	ARG	NE-CZ-NH1	6.09	123.34	120.30
1	B	996	ASP	CB-CG-OD2	-6.09	112.82	118.30
1	C	193	ASP	CB-CG-OD1	6.09	123.78	118.30
1	H	909	ARG	NE-CZ-NH1	6.09	123.34	120.30
1	L	403	ASP	CB-CG-OD2	-6.09	112.82	118.30
1	H	916	ASP	CB-CG-OD1	6.08	123.77	118.30
1	O	916	ASP	CB-CG-OD1	6.08	123.78	118.30
1	L	997	ASP	CB-CG-OD2	-6.08	112.83	118.30
1	O	233	ASP	CB-CG-OD1	6.08	123.77	118.30
1	D	52	ARG	NE-CZ-NH1	6.08	123.34	120.30
1	G	909	ARG	NE-CZ-NH1	6.08	123.34	120.30
1	K	193	ASP	CB-CG-OD1	6.08	123.77	118.30
1	E	996	ASP	CB-CG-OD2	-6.08	112.83	118.30
1	J	997	ASP	CB-CG-OD2	-6.08	112.83	118.30
1	M	52	ARG	NE-CZ-NH1	6.08	123.34	120.30
1	N	916	ASP	CB-CG-OD1	6.08	123.77	118.30
1	O	356	ARG	NE-CZ-NH2	-6.08	117.26	120.30
1	P	916	ASP	CB-CG-OD1	6.08	123.77	118.30
1	H	52	ARG	NE-CZ-NH1	6.07	123.34	120.30
1	E	916	ASP	CB-CG-OD1	6.07	123.76	118.30
1	K	403	ASP	CB-CG-OD2	-6.07	112.83	118.30
1	F	916	ASP	CB-CG-OD1	6.07	123.76	118.30
1	C	996	ASP	CB-CG-OD2	-6.07	112.84	118.30
1	F	233	ASP	CB-CG-OD1	6.07	123.76	118.30
1	F	997	ASP	CB-CG-OD2	-6.07	112.84	118.30
1	I	645	ARG	NE-CZ-NH2	-6.07	117.27	120.30
1	P	645	ARG	NE-CZ-NH2	-6.06	117.27	120.30
1	D	996	ASP	CB-CG-OD2	-6.06	112.84	118.30
1	G	997	ASP	CB-CG-OD2	-6.06	112.84	118.30
1	L	996	ASP	CB-CG-OD2	-6.06	112.84	118.30
1	M	193	ASP	CB-CG-OD1	6.06	123.75	118.30
1	N	233	ASP	CB-CG-OD1	6.06	123.75	118.30
1	F	52	ARG	NE-CZ-NH1	6.06	123.33	120.30
1	F	356	ARG	NE-CZ-NH2	-6.06	117.27	120.30
1	L	233	ASP	CB-CG-OD1	6.06	123.75	118.30
1	N	997	ASP	CB-CG-OD2	-6.06	112.85	118.30
1	A	997	ASP	CB-CG-OD2	-6.06	112.85	118.30
1	D	193	ASP	CB-CG-OD1	6.06	123.75	118.30
1	K	210	ARG	NE-CZ-NH1	6.05	123.33	120.30
1	C	52	ARG	NE-CZ-NH1	6.05	123.33	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	52	ARG	NE-CZ-NH1	6.05	123.32	120.30
1	L	356	ARG	NE-CZ-NH2	-6.05	117.28	120.30
1	N	356	ARG	NE-CZ-NH2	-6.05	117.28	120.30
1	D	233	ASP	CB-CG-OD1	6.04	123.74	118.30
1	A	233	ASP	CB-CG-OD1	6.04	123.74	118.30
1	C	916	ASP	CB-CG-OD1	6.04	123.74	118.30
1	I	916	ASP	CB-CG-OD1	6.04	123.74	118.30
1	B	997	ASP	CB-CG-OD2	-6.04	112.86	118.30
1	H	645	ARG	NE-CZ-NH2	-6.04	117.28	120.30
1	K	363	HIS	CA-CB-CG	-6.04	103.33	113.60
1	O	996	ASP	CB-CG-OD2	-6.04	112.86	118.30
1	C	233	ASP	CB-CG-OD1	6.04	123.73	118.30
1	A	916	ASP	CB-CG-OD1	6.04	123.73	118.30
1	I	233	ASP	CB-CG-OD1	6.04	123.73	118.30
1	L	363	HIS	CA-CB-CG	-6.03	103.34	113.60
1	A	356	ARG	NE-CZ-NH2	-6.03	117.28	120.30
1	B	356	ARG	NE-CZ-NH2	-6.03	117.28	120.30
1	B	645	ARG	NE-CZ-NH2	-6.03	117.28	120.30
1	E	356	ARG	NE-CZ-NH2	-6.03	117.28	120.30
1	J	363	HIS	CA-CB-CG	-6.03	103.35	113.60
1	N	52	ARG	NE-CZ-NH1	6.03	123.31	120.30
1	O	363	HIS	CA-CB-CG	-6.03	103.35	113.60
1	B	916	ASP	CB-CG-OD1	6.03	123.72	118.30
1	H	356	ARG	NE-CZ-NH2	-6.03	117.29	120.30
1	D	997	ASP	CB-CG-OD2	-6.03	112.88	118.30
1	M	356	ARG	NE-CZ-NH2	-6.03	117.29	120.30
1	O	645	ARG	NE-CZ-NH2	-6.03	117.29	120.30
1	I	997	ASP	CB-CG-OD2	-6.02	112.88	118.30
1	J	233	ASP	CB-CG-OD1	6.02	123.72	118.30
1	L	598	ASP	CB-CG-OD2	-6.02	112.88	118.30
1	E	363	HIS	CA-CB-CG	-6.02	103.37	113.60
1	K	233	ASP	CB-CG-OD1	6.02	123.72	118.30
1	M	363	HIS	CA-CB-CG	-6.02	103.37	113.60
1	B	363	HIS	CA-CB-CG	-6.02	103.37	113.60
1	J	356	ARG	NE-CZ-NH2	-6.01	117.29	120.30
1	P	363	HIS	CA-CB-CG	-6.01	103.38	113.60
1	M	233	ASP	CB-CG-OD1	6.01	123.71	118.30
1	A	363	HIS	CA-CB-CG	-6.01	103.38	113.60
1	G	233	ASP	CB-CG-OD1	6.01	123.71	118.30
1	L	645	ARG	NE-CZ-NH2	-6.01	117.30	120.30
1	C	363	HIS	CA-CB-CG	-6.01	103.39	113.60
1	K	916	ASP	CB-CG-OD1	6.01	123.71	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	363	HIS	CA-CB-CG	-6.01	103.39	113.60
1	H	363	HIS	CA-CB-CG	-6.01	103.39	113.60
1	P	233	ASP	CB-CG-OD1	6.01	123.71	118.30
1	D	363	HIS	CA-CB-CG	-6.00	103.39	113.60
1	I	363	HIS	CA-CB-CG	-6.00	103.40	113.60
1	E	233	ASP	CB-CG-OD1	6.00	123.70	118.30
1	N	363	HIS	CA-CB-CG	-6.00	103.40	113.60
1	G	363	HIS	CA-CB-CG	-5.99	103.41	113.60
1	M	645	ARG	NE-CZ-NH2	-5.99	117.30	120.30
1	M	598	ASP	CB-CG-OD2	-5.99	112.91	118.30
1	G	356	ARG	NE-CZ-NH2	-5.99	117.31	120.30
1	G	645	ARG	NE-CZ-NH2	-5.99	117.31	120.30
1	N	645	ARG	NE-CZ-NH2	-5.98	117.31	120.30
1	O	594	ASP	CB-CG-OD1	5.98	123.68	118.30
1	L	375	ASP	CB-CG-OD2	-5.98	112.92	118.30
1	B	233	ASP	CB-CG-OD1	5.98	123.68	118.30
1	J	594	ASP	CB-CG-OD1	5.98	123.68	118.30
1	D	598	ASP	CB-CG-OD2	-5.97	112.92	118.30
1	D	645	ARG	NE-CZ-NH2	-5.97	117.31	120.30
1	C	645	ARG	NE-CZ-NH2	-5.97	117.31	120.30
1	G	52	ARG	NE-CZ-NH1	5.97	123.29	120.30
1	P	598	ASP	CB-CG-OD2	-5.97	112.93	118.30
1	C	594	ASP	CB-CG-OD1	5.97	123.67	118.30
1	E	52	ARG	NE-CZ-NH1	5.97	123.28	120.30
1	H	598	ASP	CB-CG-OD2	-5.97	112.93	118.30
1	I	375	ASP	CB-CG-OD2	-5.97	112.93	118.30
1	J	598	ASP	CB-CG-OD2	-5.97	112.93	118.30
1	A	645	ARG	NE-CZ-NH2	-5.97	117.32	120.30
1	I	356	ARG	NE-CZ-NH2	-5.96	117.32	120.30
1	N	594	ASP	CB-CG-OD1	5.96	123.67	118.30
1	C	375	ASP	CB-CG-OD2	-5.96	112.93	118.30
1	C	598	ASP	CB-CG-OD2	-5.96	112.93	118.30
1	L	594	ASP	CB-CG-OD1	5.96	123.67	118.30
1	I	598	ASP	CB-CG-OD2	-5.96	112.94	118.30
1	M	594	ASP	CB-CG-OD1	5.96	123.66	118.30
1	N	598	ASP	CB-CG-OD2	-5.96	112.94	118.30
1	F	375	ASP	CB-CG-OD2	-5.96	112.94	118.30
1	I	594	ASP	CB-CG-OD1	5.96	123.66	118.30
1	O	598	ASP	CB-CG-OD2	-5.96	112.94	118.30
1	F	594	ASP	CB-CG-OD1	5.95	123.66	118.30
1	H	375	ASP	CB-CG-OD2	-5.95	112.94	118.30
1	F	598	ASP	CB-CG-OD2	-5.95	112.94	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	598	ASP	CB-CG-OD2	-5.95	112.95	118.30
1	B	594	ASP	CB-CG-OD1	5.95	123.65	118.30
1	E	598	ASP	CB-CG-OD2	-5.95	112.95	118.30
1	G	598	ASP	CB-CG-OD2	-5.95	112.95	118.30
1	K	594	ASP	CB-CG-OD1	5.95	123.65	118.30
1	A	375	ASP	CB-CG-OD2	-5.95	112.95	118.30
1	E	645	ARG	NE-CZ-NH2	-5.95	117.33	120.30
1	G	594	ASP	CB-CG-OD1	5.95	123.65	118.30
1	H	233	ASP	CB-CG-OD2	-5.95	112.95	118.30
1	A	594	ASP	CB-CG-OD1	5.94	123.65	118.30
1	D	356	ARG	NE-CZ-NH2	-5.94	117.33	120.30
1	H	594	ASP	CB-CG-OD1	5.94	123.64	118.30
1	I	233	ASP	CB-CG-OD2	-5.94	112.96	118.30
1	K	645	ARG	NE-CZ-NH2	-5.93	117.33	120.30
1	P	375	ASP	CB-CG-OD2	-5.93	112.96	118.30
1	O	375	ASP	CB-CG-OD2	-5.93	112.96	118.30
1	K	598	ASP	CB-CG-OD2	-5.93	112.97	118.30
1	E	375	ASP	CB-CG-OD2	-5.92	112.97	118.30
1	G	375	ASP	CB-CG-OD2	-5.92	112.97	118.30
1	J	375	ASP	CB-CG-OD2	-5.92	112.97	118.30
1	D	594	ASP	CB-CG-OD1	5.92	123.63	118.30
1	D	802	ASP	CB-CG-OD2	-5.92	112.97	118.30
1	K	802	ASP	CB-CG-OD2	-5.92	112.97	118.30
1	E	908	ASP	CB-CG-OD2	-5.92	112.97	118.30
1	J	645	ARG	NE-CZ-NH2	-5.92	117.34	120.30
1	P	594	ASP	CB-CG-OD1	5.92	123.62	118.30
1	J	802	ASP	CB-CG-OD2	-5.91	112.98	118.30
1	M	375	ASP	CB-CG-OD2	-5.91	112.98	118.30
1	E	802	ASP	CB-CG-OD2	-5.91	112.98	118.30
1	B	802	ASP	CB-CG-OD2	-5.90	112.99	118.30
1	D	908	ASP	CB-CG-OD2	-5.90	112.99	118.30
1	E	594	ASP	CB-CG-OD1	5.90	123.61	118.30
1	L	908	ASP	CB-CG-OD2	-5.90	112.99	118.30
1	C	908	ASP	CB-CG-OD2	-5.89	113.00	118.30
1	N	375	ASP	CB-CG-OD2	-5.89	112.99	118.30
1	D	233	ASP	CB-CG-OD2	-5.89	113.00	118.30
1	B	598	ASP	CB-CG-OD2	-5.89	113.00	118.30
1	P	802	ASP	CB-CG-OD2	-5.89	113.00	118.30
1	B	375	ASP	CB-CG-OD2	-5.89	113.00	118.30
1	F	645	ARG	NE-CZ-NH2	-5.89	117.36	120.30
1	K	233	ASP	CB-CG-OD2	-5.89	113.00	118.30
1	O	802	ASP	CB-CG-OD2	-5.89	113.00	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	375	ASP	CB-CG-OD2	-5.89	113.00	118.30
1	L	233	ASP	CB-CG-OD2	-5.89	113.00	118.30
1	F	233	ASP	CB-CG-OD2	-5.88	113.00	118.30
1	N	233	ASP	CB-CG-OD2	-5.88	113.01	118.30
1	D	375	ASP	CB-CG-OD2	-5.88	113.01	118.30
1	O	233	ASP	CB-CG-OD2	-5.88	113.01	118.30
1	D	973	ARG	NE-CZ-NH1	5.88	123.24	120.30
1	B	908	ASP	CB-CG-OD2	-5.88	113.01	118.30
1	C	233	ASP	CB-CG-OD2	-5.87	113.02	118.30
1	G	802	ASP	CB-CG-OD2	-5.87	113.02	118.30
1	I	802	ASP	CB-CG-OD2	-5.87	113.02	118.30
1	P	233	ASP	CB-CG-OD2	-5.87	113.02	118.30
1	J	908	ASP	CB-CG-OD2	-5.87	113.02	118.30
1	G	908	ASP	CB-CG-OD2	-5.87	113.02	118.30
1	H	908	ASP	CB-CG-OD2	-5.87	113.02	118.30
1	A	233	ASP	CB-CG-OD2	-5.86	113.02	118.30
1	A	802	ASP	CB-CG-OD2	-5.86	113.02	118.30
1	L	802	ASP	CB-CG-OD2	-5.86	113.02	118.30
1	C	802	ASP	CB-CG-OD2	-5.86	113.03	118.30
1	O	908	ASP	CB-CG-OD2	-5.86	113.03	118.30
1	G	233	ASP	CB-CG-OD2	-5.86	113.03	118.30
1	H	802	ASP	CB-CG-OD2	-5.86	113.03	118.30
1	D	648	ASP	CB-CG-OD1	5.86	123.57	118.30
1	J	233	ASP	CB-CG-OD2	-5.85	113.03	118.30
1	M	802	ASP	CB-CG-OD2	-5.85	113.03	118.30
1	M	908	ASP	CB-CG-OD2	-5.85	113.03	118.30
1	P	908	ASP	CB-CG-OD2	-5.85	113.03	118.30
1	B	233	ASP	CB-CG-OD2	-5.85	113.03	118.30
1	F	802	ASP	CB-CG-OD2	-5.85	113.04	118.30
1	A	908	ASP	CB-CG-OD2	-5.84	113.04	118.30
1	K	908	ASP	CB-CG-OD2	-5.84	113.05	118.30
1	M	233	ASP	CB-CG-OD2	-5.84	113.05	118.30
1	C	828	ASP	CB-CG-OD2	-5.83	113.05	118.30
1	N	802	ASP	CB-CG-OD2	-5.83	113.05	118.30
1	I	648	ASP	CB-CG-OD1	5.83	123.54	118.30
1	E	648	ASP	CB-CG-OD1	5.82	123.54	118.30
1	C	648	ASP	CB-CG-OD1	5.82	123.54	118.30
1	N	908	ASP	CB-CG-OD2	-5.82	113.06	118.30
1	O	648	ASP	CB-CG-OD1	5.82	123.54	118.30
1	F	648	ASP	CB-CG-OD1	5.82	123.54	118.30
1	I	908	ASP	CB-CG-OD2	-5.82	113.06	118.30
1	P	648	ASP	CB-CG-OD1	5.82	123.53	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	828	ASP	CB-CG-OD2	-5.82	113.06	118.30
1	F	908	ASP	CB-CG-OD2	-5.82	113.07	118.30
1	A	781	ARG	NE-CZ-NH1	5.81	123.21	120.30
1	E	233	ASP	CB-CG-OD2	-5.81	113.07	118.30
1	A	869	ASP	CB-CG-OD2	-5.81	113.07	118.30
1	J	648	ASP	CB-CG-OD1	5.81	123.53	118.30
1	G	973	ARG	NE-CZ-NH1	5.80	123.20	120.30
1	J	869	ASP	CB-CG-OD2	-5.80	113.08	118.30
1	N	648	ASP	CB-CG-OD1	5.80	123.52	118.30
1	N	973	ARG	NE-CZ-NH1	5.80	123.20	120.30
1	H	781	ARG	NE-CZ-NH1	5.80	123.20	120.30
1	C	869	ASP	CB-CG-OD2	-5.80	113.08	118.30
1	A	648	ASP	CB-CG-OD1	5.80	123.52	118.30
1	M	648	ASP	CB-CG-OD1	5.79	123.52	118.30
1	A	828	ASP	CB-CG-OD2	-5.79	113.09	118.30
1	B	96	ASP	CB-CG-OD1	5.79	123.51	118.30
1	D	781	ARG	NE-CZ-NH1	5.79	123.20	120.30
1	M	869	ASP	CB-CG-OD2	-5.79	113.09	118.30
1	O	973	ARG	NE-CZ-NH1	5.79	123.20	120.30
1	G	648	ASP	CB-CG-OD1	5.79	123.51	118.30
1	L	828	ASP	CB-CG-OD2	-5.79	113.09	118.30
1	P	828	ASP	CB-CG-OD2	-5.79	113.09	118.30
1	G	869	ASP	CB-CG-OD2	-5.79	113.09	118.30
1	L	96	ASP	CB-CG-OD1	5.79	123.51	118.30
1	D	908	ASP	CB-CG-OD1	5.79	123.51	118.30
1	P	164	ASP	CB-CG-OD1	5.79	123.51	118.30
1	A	96	ASP	CB-CG-OD1	5.79	123.51	118.30
1	C	96	ASP	CB-CG-OD1	5.79	123.51	118.30
1	J	533	LEU	CB-CA-C	5.79	121.19	110.20
1	O	96	ASP	CB-CG-OD1	5.79	123.51	118.30
1	H	648	ASP	CB-CG-OD1	5.78	123.50	118.30
1	H	869	ASP	CB-CG-OD2	-5.78	113.09	118.30
1	L	164	ASP	CB-CG-OD1	5.78	123.51	118.30
1	M	781	ARG	NE-CZ-NH1	5.78	123.19	120.30
1	C	533	LEU	CB-CA-C	5.78	121.18	110.20
1	A	425	ARG	NE-CZ-NH1	5.78	123.19	120.30
1	K	164	ASP	CB-CG-OD1	5.78	123.50	118.30
1	J	610	ASP	CB-CG-OD2	-5.78	113.10	118.30
1	K	648	ASP	CB-CG-OD1	5.78	123.50	118.30
1	K	869	ASP	CB-CG-OD2	-5.78	113.10	118.30
1	F	533	LEU	CB-CA-C	5.77	121.17	110.20
1	A	973	ARG	NE-CZ-NH1	5.77	123.19	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	973	ARG	NE-CZ-NH1	5.77	123.19	120.30
1	D	164	ASP	CB-CG-OD1	5.77	123.50	118.30
1	H	164	ASP	CB-CG-OD1	5.77	123.50	118.30
1	I	781	ARG	NE-CZ-NH1	5.77	123.19	120.30
1	K	828	ASP	CB-CG-OD2	-5.77	113.10	118.30
1	L	648	ASP	CB-CG-OD1	5.77	123.50	118.30
1	O	533	LEU	CB-CA-C	5.77	121.17	110.20
1	F	425	ARG	NE-CZ-NH1	5.77	123.19	120.30
1	G	828	ASP	CB-CG-OD2	-5.77	113.11	118.30
1	A	533	LEU	CB-CA-C	5.77	121.16	110.20
1	H	533	LEU	CB-CA-C	5.77	121.16	110.20
1	I	533	LEU	CB-CA-C	5.77	121.16	110.20
1	K	533	LEU	CB-CA-C	5.77	121.16	110.20
1	M	908	ASP	CB-CG-OD1	5.77	123.49	118.30
1	A	610	ASP	CB-CG-OD2	-5.77	113.11	118.30
1	B	425	ARG	NE-CZ-NH1	5.77	123.18	120.30
1	F	96	ASP	CB-CG-OD1	5.77	123.49	118.30
1	M	533	LEU	CB-CA-C	5.77	121.16	110.20
1	M	610	ASP	CB-CG-OD2	-5.77	113.11	118.30
1	N	533	LEU	CB-CA-C	5.77	121.16	110.20
1	O	781	ARG	NE-CZ-NH1	5.77	123.18	120.30
1	I	828	ASP	CB-CG-OD2	-5.76	113.11	118.30
1	P	533	LEU	CB-CA-C	5.76	121.15	110.20
1	O	610	ASP	CB-CG-OD2	-5.76	113.11	118.30
1	F	610	ASP	CB-CG-OD2	-5.76	113.11	118.30
1	G	533	LEU	CB-CA-C	5.76	121.15	110.20
1	L	533	LEU	CB-CA-C	5.76	121.15	110.20
1	O	908	ASP	CB-CG-OD1	5.76	123.48	118.30
1	P	610	ASP	CB-CG-OD2	-5.76	113.11	118.30
1	P	869	ASP	CB-CG-OD2	-5.76	113.11	118.30
1	E	533	LEU	CB-CA-C	5.76	121.14	110.20
1	L	908	ASP	CB-CG-OD1	5.76	123.48	118.30
1	N	96	ASP	CB-CG-OD1	5.76	123.48	118.30
1	B	648	ASP	CB-CG-OD1	5.76	123.48	118.30
1	B	828	ASP	CB-CG-OD2	-5.76	113.12	118.30
1	F	869	ASP	CB-CG-OD2	-5.76	113.12	118.30
1	I	973	ARG	NE-CZ-NH1	5.76	123.18	120.30
1	K	781	ARG	NE-CZ-NH1	5.76	123.18	120.30
1	M	973	ARG	NE-CZ-NH1	5.76	123.18	120.30
1	O	659	ASP	CB-CG-OD1	5.76	123.48	118.30
1	L	869	ASP	CB-CG-OD2	-5.75	113.12	118.30
1	B	869	ASP	CB-CG-OD2	-5.75	113.12	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	781	ARG	NE-CZ-NH1	5.75	123.18	120.30
1	F	164	ASP	CB-CG-OD1	5.75	123.48	118.30
1	J	96	ASP	CB-CG-OD1	5.75	123.48	118.30
1	O	828	ASP	CB-CG-OD2	-5.75	113.12	118.30
1	P	425	ARG	NE-CZ-NH1	5.75	123.18	120.30
1	E	973	ARG	NE-CZ-NH1	5.75	123.18	120.30
1	M	164	ASP	CB-CG-OD1	5.75	123.47	118.30
1	N	869	ASP	CB-CG-OD2	-5.75	113.12	118.30
1	F	908	ASP	CB-CG-OD1	5.75	123.47	118.30
1	N	828	ASP	CB-CG-OD2	-5.75	113.12	118.30
1	B	973	ARG	NE-CZ-NH1	5.75	123.17	120.30
1	H	610	ASP	CB-CG-OD2	-5.75	113.13	118.30
1	P	287	ASP	CB-CG-OD1	5.75	123.47	118.30
1	E	164	ASP	CB-CG-OD1	5.75	123.47	118.30
1	B	533	LEU	CB-CA-C	5.74	121.11	110.20
1	D	425	ARG	NE-CZ-NH1	5.74	123.17	120.30
1	D	533	LEU	CB-CA-C	5.74	121.11	110.20
1	L	610	ASP	CB-CG-OD2	-5.74	113.13	118.30
1	O	287	ASP	CB-CG-OD1	5.74	123.47	118.30
1	B	781	ARG	NE-CZ-NH1	5.74	123.17	120.30
1	G	96	ASP	CB-CG-OD1	5.74	123.47	118.30
1	I	869	ASP	CB-CG-OD2	-5.74	113.13	118.30
1	K	610	ASP	CB-CG-OD2	-5.74	113.13	118.30
1	M	96	ASP	CB-CG-OD1	5.74	123.47	118.30
1	O	425	ARG	NE-CZ-NH1	5.74	123.17	120.30
1	A	164	ASP	CB-CG-OD1	5.74	123.46	118.30
1	A	908	ASP	CB-CG-OD1	5.74	123.46	118.30
1	C	908	ASP	CB-CG-OD1	5.74	123.47	118.30
1	D	96	ASP	CB-CG-OD1	5.74	123.46	118.30
1	E	96	ASP	CB-CG-OD1	5.74	123.47	118.30
1	G	610	ASP	CB-CG-OD2	-5.74	113.14	118.30
1	H	287	ASP	CB-CG-OD1	5.74	123.47	118.30
1	H	828	ASP	CB-CG-OD2	-5.74	113.14	118.30
1	J	287	ASP	CB-CG-OD1	5.74	123.47	118.30
1	K	908	ASP	CB-CG-OD1	5.74	123.46	118.30
1	M	828	ASP	CB-CG-OD2	-5.74	113.14	118.30
1	N	164	ASP	CB-CG-OD1	5.74	123.46	118.30
1	E	610	ASP	CB-CG-OD2	-5.74	113.14	118.30
1	J	828	ASP	CB-CG-OD2	-5.74	113.14	118.30
1	M	659	ASP	CB-CG-OD1	5.74	123.46	118.30
1	P	96	ASP	CB-CG-OD1	5.74	123.46	118.30
1	F	781	ARG	NE-CZ-NH1	5.73	123.17	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	287	ASP	CB-CG-OD1	5.73	123.46	118.30
1	K	96	ASP	CB-CG-OD1	5.73	123.46	118.30
1	E	828	ASP	CB-CG-OD2	-5.73	113.14	118.30
1	E	869	ASP	CB-CG-OD2	-5.73	113.14	118.30
1	M	425	ARG	NE-CZ-NH1	5.73	123.17	120.30
1	B	610	ASP	CB-CG-OD2	-5.73	113.14	118.30
1	J	425	ARG	NE-CZ-NH1	5.73	123.16	120.30
1	L	329	ASP	CB-CG-OD1	5.73	123.45	118.30
1	N	610	ASP	CB-CG-OD2	-5.73	113.14	118.30
1	N	671	ASP	CB-CG-OD2	-5.73	113.14	118.30
1	C	287	ASP	CB-CG-OD1	5.72	123.45	118.30
1	G	781	ARG	NE-CZ-NH1	5.72	123.16	120.30
1	J	164	ASP	CB-CG-OD1	5.72	123.45	118.30
1	J	973	ARG	NE-CZ-NH1	5.72	123.16	120.30
1	A	287	ASP	CB-CG-OD1	5.72	123.45	118.30
1	B	164	ASP	CB-CG-OD1	5.72	123.45	118.30
1	K	287	ASP	CB-CG-OD1	5.72	123.45	118.30
1	L	973	ARG	NE-CZ-NH1	5.72	123.16	120.30
1	O	671	ASP	CB-CG-OD2	-5.72	113.15	118.30
1	P	908	ASP	CB-CG-OD1	5.72	123.45	118.30
1	D	671	ASP	CB-CG-OD2	-5.72	113.15	118.30
1	H	425	ARG	NE-CZ-NH1	5.72	123.16	120.30
1	B	659	ASP	CB-CG-OD1	5.72	123.45	118.30
1	D	659	ASP	CB-CG-OD1	5.72	123.45	118.30
1	D	828	ASP	CB-CG-OD2	-5.72	113.16	118.30
1	N	425	ARG	NE-CZ-NH1	5.72	123.16	120.30
1	P	659	ASP	CB-CG-OD1	5.72	123.44	118.30
1	C	671	ASP	CB-CG-OD2	-5.71	113.16	118.30
1	D	869	ASP	CB-CG-OD2	-5.71	113.16	118.30
1	I	96	ASP	CB-CG-OD1	5.71	123.44	118.30
1	N	659	ASP	CB-CG-OD1	5.71	123.44	118.30
1	E	908	ASP	CB-CG-OD1	5.71	123.44	118.30
1	H	659	ASP	CB-CG-OD1	5.71	123.44	118.30
1	L	671	ASP	CB-CG-OD2	-5.71	113.16	118.30
1	O	164	ASP	CB-CG-OD1	5.71	123.44	118.30
1	H	973	ARG	NE-CZ-NH1	5.71	123.16	120.30
1	I	164	ASP	CB-CG-OD1	5.71	123.44	118.30
1	K	973	ARG	NE-CZ-NH1	5.71	123.16	120.30
1	O	869	ASP	CB-CG-OD2	-5.71	113.16	118.30
1	G	164	ASP	CB-CG-OD1	5.71	123.44	118.30
1	H	96	ASP	CB-CG-OD1	5.71	123.44	118.30
1	D	610	ASP	CB-CG-OD2	-5.71	113.16	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	659	ASP	CB-CG-OD1	5.71	123.44	118.30
1	C	610	ASP	CB-CG-OD2	-5.71	113.17	118.30
1	D	287	ASP	CB-CG-OD1	5.71	123.44	118.30
1	F	329	ASP	CB-CG-OD1	5.71	123.44	118.30
1	I	908	ASP	CB-CG-OD1	5.71	123.44	118.30
1	C	164	ASP	CB-CG-OD1	5.71	123.43	118.30
1	B	908	ASP	CB-CG-OD1	5.70	123.43	118.30
1	F	671	ASP	CB-CG-OD2	-5.70	113.17	118.30
1	K	671	ASP	CB-CG-OD2	-5.70	113.17	118.30
1	L	781	ARG	NE-CZ-NH1	5.70	123.15	120.30
1	L	425	ARG	NE-CZ-NH1	5.70	123.15	120.30
1	C	659	ASP	CB-CG-OD1	5.70	123.43	118.30
1	E	781	ARG	NE-CZ-NH1	5.70	123.15	120.30
1	I	610	ASP	CB-CG-OD2	-5.70	113.17	118.30
1	L	659	ASP	CB-CG-OD1	5.70	123.43	118.30
1	P	781	ARG	NE-CZ-NH1	5.70	123.15	120.30
1	E	659	ASP	CB-CG-OD1	5.70	123.43	118.30
1	A	659	ASP	CB-CG-OD1	5.70	123.43	118.30
1	B	287	ASP	CB-CG-OD1	5.70	123.43	118.30
1	M	287	ASP	CB-CG-OD1	5.70	123.42	118.30
1	E	287	ASP	CB-CG-OD1	5.69	123.42	118.30
1	H	908	ASP	CB-CG-OD1	5.69	123.42	118.30
1	J	781	ARG	NE-CZ-NH1	5.69	123.15	120.30
1	P	973	ARG	NE-CZ-NH1	5.69	123.15	120.30
1	N	287	ASP	CB-CG-OD1	5.69	123.42	118.30
1	L	287	ASP	CB-CG-OD1	5.69	123.42	118.30
1	M	671	ASP	CB-CG-OD2	-5.69	113.18	118.30
1	B	671	ASP	CB-CG-OD2	-5.68	113.18	118.30
1	G	908	ASP	CB-CG-OD1	5.68	123.42	118.30
1	J	659	ASP	CB-CG-OD1	5.68	123.42	118.30
1	K	425	ARG	NE-CZ-NH1	5.68	123.14	120.30
1	J	908	ASP	CB-CG-OD1	5.68	123.41	118.30
1	I	679	LEU	CA-CB-CG	-5.68	102.24	115.30
1	G	425	ARG	NE-CZ-NH1	5.68	123.14	120.30
1	E	679	LEU	CA-CB-CG	-5.67	102.25	115.30
1	P	679	LEU	CA-CB-CG	-5.67	102.25	115.30
1	I	425	ARG	NE-CZ-NH1	5.67	123.14	120.30
1	J	329	ASP	CB-CG-OD1	5.67	123.41	118.30
1	I	671	ASP	CB-CG-OD2	-5.67	113.19	118.30
1	L	679	LEU	CA-CB-CG	-5.67	102.25	115.30
1	N	908	ASP	CB-CG-OD1	5.67	123.41	118.30
1	G	671	ASP	CB-CG-OD2	-5.67	113.20	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	781	ARG	NE-CZ-NH1	5.67	123.14	120.30
1	E	671	ASP	CB-CG-OD2	-5.67	113.20	118.30
1	A	329	ASP	CB-CG-OD1	5.67	123.40	118.30
1	F	679	LEU	CA-CB-CG	-5.67	102.27	115.30
1	K	659	ASP	CB-CG-OD1	5.67	123.40	118.30
1	D	329	ASP	CB-CG-OD1	5.67	123.40	118.30
1	D	679	LEU	CA-CB-CG	-5.67	102.27	115.30
1	G	659	ASP	CB-CG-OD1	5.67	123.40	118.30
1	H	679	LEU	CA-CB-CG	-5.67	102.27	115.30
1	N	679	LEU	CA-CB-CG	-5.67	102.27	115.30
1	B	679	LEU	CA-CB-CG	-5.66	102.27	115.30
1	N	329	ASP	CB-CG-OD1	5.66	123.40	118.30
1	H	671	ASP	CB-CG-OD2	-5.66	113.20	118.30
1	G	287	ASP	CB-CG-OD1	5.66	123.39	118.30
1	P	671	ASP	CB-CG-OD2	-5.66	113.20	118.30
1	C	425	ARG	NE-CZ-NH1	5.66	123.13	120.30
1	O	679	LEU	CA-CB-CG	-5.66	102.29	115.30
1	J	679	LEU	CA-CB-CG	-5.66	102.29	115.30
1	K	679	LEU	CA-CB-CG	-5.66	102.29	115.30
1	M	679	LEU	CA-CB-CG	-5.66	102.29	115.30
1	P	329	ASP	CB-CG-OD1	5.66	123.39	118.30
1	G	679	LEU	CA-CB-CG	-5.65	102.30	115.30
1	P	954	ASP	CB-CG-OD2	-5.65	113.21	118.30
1	C	679	LEU	CA-CB-CG	-5.65	102.30	115.30
1	E	329	ASP	CB-CG-OD1	5.65	123.39	118.30
1	B	329	ASP	CB-CG-OD1	5.65	123.39	118.30
1	F	659	ASP	CB-CG-OD1	5.65	123.39	118.30
1	I	329	ASP	CB-CG-OD1	5.65	123.39	118.30
1	J	671	ASP	CB-CG-OD2	-5.65	113.22	118.30
1	F	973	ARG	NE-CZ-NH1	5.65	123.12	120.30
1	E	425	ARG	NE-CZ-NH1	5.65	123.12	120.30
1	A	671	ASP	CB-CG-OD2	-5.65	113.22	118.30
1	L	954	ASP	CB-CG-OD2	-5.64	113.22	118.30
1	O	329	ASP	CB-CG-OD1	5.64	123.38	118.30
1	A	679	LEU	CA-CB-CG	-5.64	102.33	115.30
1	C	329	ASP	CB-CG-OD1	5.64	123.38	118.30
1	F	287	ASP	CB-CG-OD1	5.64	123.38	118.30
1	G	329	ASP	CB-CG-OD1	5.64	123.37	118.30
1	H	329	ASP	CB-CG-OD1	5.64	123.37	118.30
1	D	211	ASP	CB-CG-OD2	-5.63	113.23	118.30
1	G	497	ASP	CB-CG-OD2	-5.63	113.23	118.30
1	M	211	ASP	CB-CG-OD2	-5.63	113.23	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	211	ASP	CB-CG-OD2	-5.63	113.23	118.30
1	J	497	ASP	CB-CG-OD2	-5.63	113.24	118.30
1	P	497	ASP	CB-CG-OD2	-5.63	113.24	118.30
1	M	329	ASP	CB-CG-OD1	5.62	123.36	118.30
1	F	954	ASP	CB-CG-OD2	-5.62	113.24	118.30
1	K	954	ASP	CB-CG-OD2	-5.62	113.24	118.30
1	H	954	ASP	CB-CG-OD2	-5.62	113.24	118.30
1	D	954	ASP	CB-CG-OD2	-5.61	113.25	118.30
1	A	954	ASP	CB-CG-OD2	-5.61	113.25	118.30
1	C	954	ASP	CB-CG-OD2	-5.61	113.25	118.30
1	E	954	ASP	CB-CG-OD2	-5.61	113.25	118.30
1	J	211	ASP	CB-CG-OD2	-5.61	113.25	118.30
1	A	497	ASP	CB-CG-OD2	-5.60	113.26	118.30
1	K	497	ASP	CB-CG-OD2	-5.60	113.26	118.30
1	K	828	ASP	CB-CG-OD1	5.60	123.34	118.30
1	O	954	ASP	CB-CG-OD2	-5.60	113.26	118.30
1	N	497	ASP	CB-CG-OD2	-5.60	113.26	118.30
1	L	211	ASP	CB-CG-OD2	-5.60	113.26	118.30
1	P	211	ASP	CB-CG-OD2	-5.60	113.26	118.30
1	D	497	ASP	CB-CG-OD2	-5.60	113.26	118.30
1	C	211	ASP	CB-CG-OD2	-5.59	113.27	118.30
1	F	43	ARG	NE-CZ-NH2	-5.59	117.50	120.30
1	H	497	ASP	CB-CG-OD2	-5.59	113.27	118.30
1	F	211	ASP	CB-CG-OD2	-5.59	113.27	118.30
1	B	954	ASP	CB-CG-OD2	-5.59	113.27	118.30
1	N	954	ASP	CB-CG-OD2	-5.59	113.27	118.30
1	D	800	ARG	NE-CZ-NH1	5.58	123.09	120.30
1	J	954	ASP	CB-CG-OD2	-5.58	113.28	118.30
1	N	211	ASP	CB-CG-OD2	-5.58	113.28	118.30
1	K	329	ASP	CB-CG-OD1	5.58	123.32	118.30
1	L	828	ASP	CB-CG-OD1	5.58	123.32	118.30
1	M	497	ASP	CB-CG-OD2	-5.58	113.28	118.30
1	G	211	ASP	CB-CG-OD2	-5.58	113.28	118.30
1	C	828	ASP	CB-CG-OD1	5.58	123.32	118.30
1	G	954	ASP	CB-CG-OD2	-5.58	113.28	118.30
1	I	954	ASP	CB-CG-OD2	-5.57	113.29	118.30
1	C	497	ASP	CB-CG-OD2	-5.57	113.29	118.30
1	I	211	ASP	CB-CG-OD2	-5.57	113.29	118.30
1	A	211	ASP	CB-CG-OD2	-5.57	113.29	118.30
1	L	375	ASP	CB-CG-OD1	5.57	123.31	118.30
1	O	800	ARG	NE-CZ-NH1	5.57	123.08	120.30
1	E	497	ASP	CB-CG-OD2	-5.56	113.29	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	211	ASP	CB-CG-OD2	-5.56	113.29	118.30
1	O	497	ASP	CB-CG-OD2	-5.56	113.29	118.30
1	B	211	ASP	CB-CG-OD2	-5.56	113.30	118.30
1	A	828	ASP	CB-CG-OD1	5.56	123.30	118.30
1	L	497	ASP	CB-CG-OD2	-5.56	113.30	118.30
1	I	828	ASP	CB-CG-OD1	5.55	123.30	118.30
1	K	43	ARG	NE-CZ-NH2	-5.55	117.52	120.30
1	E	211	ASP	CB-CG-OD2	-5.55	113.30	118.30
1	H	952	ARG	NE-CZ-NH2	-5.55	117.52	120.30
1	B	828	ASP	CB-CG-OD1	5.55	123.30	118.30
1	O	828	ASP	CB-CG-OD1	5.55	123.29	118.30
1	H	828	ASP	CB-CG-OD1	5.55	123.29	118.30
1	L	952	ARG	NE-CZ-NH2	-5.55	117.53	120.30
1	P	375	ASP	CB-CG-OD1	5.55	123.29	118.30
1	I	497	ASP	CB-CG-OD2	-5.54	113.31	118.30
1	F	497	ASP	CB-CG-OD2	-5.54	113.31	118.30
1	M	375	ASP	CB-CG-OD1	5.54	123.29	118.30
1	P	952	ARG	NE-CZ-NH2	-5.54	117.53	120.30
1	M	954	ASP	CB-CG-OD2	-5.54	113.32	118.30
1	A	800	ARG	NE-CZ-NH1	5.54	123.07	120.30
1	B	497	ASP	CB-CG-OD2	-5.54	113.32	118.30
1	E	375	ASP	CB-CG-OD1	5.54	123.28	118.30
1	H	211	ASP	CB-CG-OD2	-5.54	113.32	118.30
1	J	952	ARG	NE-CZ-NH2	-5.54	117.53	120.30
1	E	828	ASP	CB-CG-OD1	5.53	123.28	118.30
1	F	800	ARG	NE-CZ-NH1	5.53	123.07	120.30
1	M	952	ARG	NE-CZ-NH2	-5.53	117.53	120.30
1	C	375	ASP	CB-CG-OD1	5.53	123.28	118.30
1	G	828	ASP	CB-CG-OD1	5.53	123.28	118.30
1	N	375	ASP	CB-CG-OD1	5.53	123.28	118.30
1	F	828	ASP	CB-CG-OD1	5.53	123.28	118.30
1	G	800	ARG	NE-CZ-NH1	5.53	123.06	120.30
1	M	43	ARG	NE-CZ-NH2	-5.53	117.54	120.30
1	O	952	ARG	NE-CZ-NH2	-5.53	117.54	120.30
1	H	375	ASP	CB-CG-OD1	5.53	123.27	118.30
1	P	828	ASP	CB-CG-OD1	5.53	123.27	118.30
1	O	375	ASP	CB-CG-OD1	5.52	123.27	118.30
1	C	952	ARG	NE-CZ-NH2	-5.52	117.54	120.30
1	M	828	ASP	CB-CG-OD1	5.52	123.27	118.30
1	G	952	ARG	NE-CZ-NH2	-5.52	117.54	120.30
1	A	43	ARG	NE-CZ-NH2	-5.52	117.54	120.30
1	B	800	ARG	NE-CZ-NH1	5.51	123.06	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	952	ARG	NE-CZ-NH2	-5.51	117.54	120.30
1	J	828	ASP	CB-CG-OD1	5.51	123.26	118.30
1	D	375	ASP	CB-CG-OD1	5.51	123.26	118.30
1	G	282	ARG	NE-CZ-NH1	5.51	123.05	120.30
1	A	375	ASP	CB-CG-OD1	5.51	123.25	118.30
1	D	987	ASP	CB-CG-OD1	5.51	123.26	118.30
1	F	375	ASP	CB-CG-OD1	5.51	123.26	118.30
1	H	987	ASP	CB-CG-OD1	5.50	123.25	118.30
1	D	43	ARG	NE-CZ-NH2	-5.50	117.55	120.30
1	D	828	ASP	CB-CG-OD1	5.50	123.25	118.30
1	I	375	ASP	CB-CG-OD1	5.50	123.25	118.30
1	J	800	ARG	NE-CZ-NH1	5.50	123.05	120.30
1	K	800	ARG	NE-CZ-NH1	5.50	123.05	120.30
1	N	43	ARG	NE-CZ-NH2	-5.50	117.55	120.30
1	E	800	ARG	NE-CZ-NH1	5.50	123.05	120.30
1	M	987	ASP	CB-CG-OD1	5.50	123.25	118.30
1	N	828	ASP	CB-CG-OD1	5.50	123.25	118.30
1	I	43	ARG	NE-CZ-NH2	-5.50	117.55	120.30
1	A	987	ASP	CB-CG-OD1	5.49	123.25	118.30
1	P	800	ARG	NE-CZ-NH1	5.49	123.05	120.30
1	F	987	ASP	CB-CG-OD1	5.49	123.24	118.30
1	I	952	ARG	NE-CZ-NH2	-5.49	117.56	120.30
1	M	800	ARG	NE-CZ-NH1	5.49	123.05	120.30
1	B	987	ASP	CB-CG-OD1	5.49	123.24	118.30
1	G	43	ARG	NE-CZ-NH2	-5.49	117.56	120.30
1	J	375	ASP	CB-CG-OD1	5.49	123.24	118.30
1	G	375	ASP	CB-CG-OD1	5.48	123.23	118.30
1	I	987	ASP	CB-CG-OD1	5.48	123.23	118.30
1	P	987	ASP	CB-CG-OD1	5.48	123.23	118.30
1	J	43	ARG	NE-CZ-NH2	-5.48	117.56	120.30
1	G	987	ASP	CB-CG-OD1	5.48	123.23	118.30
1	K	375	ASP	CB-CG-OD1	5.47	123.23	118.30
1	K	952	ARG	NE-CZ-NH2	-5.47	117.56	120.30
1	C	800	ARG	NE-CZ-NH1	5.47	123.04	120.30
1	I	800	ARG	NE-CZ-NH1	5.47	123.03	120.30
1	L	282	ARG	NE-CZ-NH1	5.47	123.03	120.30
1	L	916	ASP	CB-CG-OD2	-5.46	113.38	118.30
1	O	591	ASP	CB-CG-OD2	-5.46	113.39	118.30
1	N	952	ARG	NE-CZ-NH2	-5.46	117.57	120.30
1	H	800	ARG	NE-CZ-NH1	5.46	123.03	120.30
1	A	427	THR	CA-CB-CG2	-5.46	104.76	112.40
1	P	916	ASP	CB-CG-OD2	-5.46	113.39	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	952	ARG	NE-CZ-NH2	-5.45	117.57	120.30
1	D	427	THR	CA-CB-CG2	-5.45	104.77	112.40
1	A	282	ARG	NE-CZ-NH1	5.45	123.03	120.30
1	A	916	ASP	CB-CG-OD2	-5.45	113.39	118.30
1	L	800	ARG	NE-CZ-NH1	5.45	123.03	120.30
1	C	43	ARG	NE-CZ-NH2	-5.45	117.58	120.30
1	P	43	ARG	NE-CZ-NH2	-5.45	117.58	120.30
1	A	952	ARG	NE-CZ-NH2	-5.45	117.58	120.30
1	H	427	THR	CA-CB-CG2	-5.45	104.77	112.40
1	L	43	ARG	NE-CZ-NH2	-5.45	117.58	120.30
1	O	43	ARG	NE-CZ-NH2	-5.45	117.58	120.30
1	E	987	ASP	CB-CG-OD1	5.45	123.20	118.30
1	F	916	ASP	CB-CG-OD2	-5.45	113.40	118.30
1	B	916	ASP	CB-CG-OD2	-5.44	113.40	118.30
1	E	43	ARG	NE-CZ-NH2	-5.44	117.58	120.30
1	L	427	THR	CA-CB-CG2	-5.44	104.78	112.40
1	M	916	ASP	CB-CG-OD2	-5.44	113.40	118.30
1	N	427	THR	CA-CB-CG2	-5.44	104.78	112.40
1	D	924	ASP	CB-CG-OD2	-5.44	113.40	118.30
1	L	82	ASP	CB-CG-OD2	-5.44	113.40	118.30
1	P	591	ASP	CB-CG-OD2	-5.44	113.40	118.30
1	G	82	ASP	CB-CG-OD2	-5.44	113.41	118.30
1	I	591	ASP	CB-CG-OD2	-5.44	113.41	118.30
1	N	800	ARG	NE-CZ-NH1	5.44	123.02	120.30
1	G	591	ASP	CB-CG-OD2	-5.44	113.41	118.30
1	B	375	ASP	CB-CG-OD1	5.43	123.19	118.30
1	J	427	THR	CA-CB-CG2	-5.43	104.79	112.40
1	O	82	ASP	CB-CG-OD2	-5.43	113.41	118.30
1	O	427	THR	CA-CB-CG2	-5.43	104.79	112.40
1	B	43	ARG	NE-CZ-NH2	-5.43	117.58	120.30
1	B	952	ARG	NE-CZ-NH2	-5.43	117.58	120.30
1	C	987	ASP	CB-CG-OD1	5.43	123.19	118.30
1	D	591	ASP	CB-CG-OD2	-5.43	113.41	118.30
1	L	591	ASP	CB-CG-OD2	-5.43	113.41	118.30
1	M	427	THR	CA-CB-CG2	-5.43	104.79	112.40
1	N	916	ASP	CB-CG-OD2	-5.43	113.41	118.30
1	F	427	THR	CA-CB-CG2	-5.43	104.80	112.40
1	B	427	THR	CA-CB-CG2	-5.43	104.80	112.40
1	D	82	ASP	CB-CG-OD2	-5.43	113.41	118.30
1	G	237	ARG	NE-CZ-NH1	5.43	123.02	120.30
1	L	987	ASP	CB-CG-OD1	5.43	123.19	118.30
1	O	411	ASP	CB-CG-OD2	-5.43	113.41	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	82	ASP	CB-CG-OD2	-5.43	113.42	118.30
1	I	427	THR	CA-CB-CG2	-5.43	104.80	112.40
1	A	591	ASP	CB-CG-OD2	-5.42	113.42	118.30
1	F	776	LEU	CB-CA-C	-5.42	99.89	110.20
1	J	924	ASP	CB-CG-OD2	-5.42	113.42	118.30
1	P	427	THR	CA-CB-CG2	-5.42	104.81	112.40
1	N	987	ASP	CB-CG-OD1	5.42	123.18	118.30
1	J	916	ASP	CB-CG-OD2	-5.42	113.42	118.30
1	K	987	ASP	CB-CG-OD1	5.42	123.18	118.30
1	B	591	ASP	CB-CG-OD2	-5.42	113.42	118.30
1	H	82	ASP	CB-CG-OD2	-5.42	113.42	118.30
1	J	82	ASP	CB-CG-OD2	-5.42	113.42	118.30
1	C	427	THR	CA-CB-CG2	-5.42	104.82	112.40
1	G	776	LEU	CB-CA-C	-5.42	99.91	110.20
1	O	987	ASP	CB-CG-OD1	5.42	123.17	118.30
1	N	282	ARG	NE-CZ-NH1	5.42	123.01	120.30
1	A	411	ASP	CB-CG-OD2	-5.41	113.43	118.30
1	D	916	ASP	CB-CG-OD2	-5.41	113.43	118.30
1	G	916	ASP	CB-CG-OD2	-5.41	113.43	118.30
1	H	776	LEU	CB-CA-C	-5.41	99.92	110.20
1	I	776	LEU	CB-CA-C	-5.41	99.92	110.20
1	K	427	THR	CA-CB-CG2	-5.41	104.82	112.40
1	K	591	ASP	CB-CG-OD2	-5.41	113.43	118.30
1	L	776	LEU	CB-CA-C	-5.41	99.91	110.20
1	B	776	LEU	CB-CA-C	-5.41	99.92	110.20
1	G	427	THR	CA-CB-CG2	-5.41	104.83	112.40
1	H	43	ARG	NE-CZ-NH2	-5.41	117.59	120.30
1	M	82	ASP	CB-CG-OD2	-5.41	113.43	118.30
1	P	776	LEU	CB-CA-C	-5.41	99.92	110.20
1	A	82	ASP	CB-CG-OD2	-5.41	113.43	118.30
1	C	776	LEU	CB-CA-C	-5.41	99.92	110.20
1	E	427	THR	CA-CB-CG2	-5.41	104.83	112.40
1	H	411	ASP	CB-CG-OD2	-5.41	113.43	118.30
1	N	591	ASP	CB-CG-OD2	-5.41	113.43	118.30
1	O	916	ASP	CB-CG-OD2	-5.41	113.43	118.30
1	D	952	ARG	NE-CZ-NH2	-5.41	117.60	120.30
1	F	924	ASP	CB-CG-OD2	-5.41	113.44	118.30
1	J	987	ASP	CB-CG-OD1	5.41	123.17	118.30
1	M	411	ASP	CB-CG-OD2	-5.41	113.44	118.30
1	N	82	ASP	CB-CG-OD2	-5.41	113.44	118.30
1	E	282	ARG	NE-CZ-NH1	5.40	123.00	120.30
1	J	591	ASP	CB-CG-OD2	-5.40	113.44	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	591	ASP	CB-CG-OD2	-5.40	113.44	118.30
1	F	591	ASP	CB-CG-OD2	-5.40	113.44	118.30
1	J	776	LEU	CB-CA-C	-5.40	99.93	110.20
1	M	924	ASP	CB-CG-OD2	-5.40	113.44	118.30
1	C	82	ASP	CB-CG-OD2	-5.40	113.44	118.30
1	G	411	ASP	CB-CG-OD2	-5.40	113.44	118.30
1	G	924	ASP	CB-CG-OD2	-5.40	113.44	118.30
1	H	916	ASP	CB-CG-OD2	-5.40	113.44	118.30
1	M	776	LEU	CB-CA-C	-5.40	99.94	110.20
1	N	237	ARG	NE-CZ-NH1	5.40	123.00	120.30
1	A	924	ASP	CB-CG-OD2	-5.40	113.44	118.30
1	E	591	ASP	CB-CG-OD2	-5.40	113.44	118.30
1	I	916	ASP	CB-CG-OD2	-5.40	113.44	118.30
1	O	776	LEU	CB-CA-C	-5.40	99.95	110.20
1	A	746	ASP	CB-CG-OD1	5.39	123.16	118.30
1	D	776	LEU	CB-CA-C	-5.39	99.95	110.20
1	E	776	LEU	CB-CA-C	-5.39	99.95	110.20
1	F	82	ASP	CB-CG-OD2	-5.39	113.44	118.30
1	K	282	ARG	NE-CZ-NH1	5.39	123.00	120.30
1	O	924	ASP	CB-CG-OD2	-5.39	113.44	118.30
1	A	776	LEU	CB-CA-C	-5.39	99.96	110.20
1	B	282	ARG	NE-CZ-NH1	5.39	123.00	120.30
1	E	916	ASP	CB-CG-OD2	-5.39	113.45	118.30
1	K	776	LEU	CB-CA-C	-5.39	99.96	110.20
1	L	411	ASP	CB-CG-OD2	-5.39	113.45	118.30
1	H	282	ARG	NE-CZ-NH1	5.39	122.99	120.30
1	D	411	ASP	CB-CG-OD2	-5.39	113.45	118.30
1	J	411	ASP	CB-CG-OD2	-5.39	113.45	118.30
1	N	776	LEU	CB-CA-C	-5.39	99.97	110.20
1	D	282	ARG	NE-CZ-NH1	5.38	122.99	120.30
1	I	411	ASP	CB-CG-OD2	-5.38	113.45	118.30
1	K	82	ASP	CB-CG-OD2	-5.38	113.45	118.30
1	C	924	ASP	CB-CG-OD2	-5.38	113.46	118.30
1	H	591	ASP	CB-CG-OD2	-5.38	113.46	118.30
1	C	916	ASP	CB-CG-OD2	-5.38	113.46	118.30
1	E	82	ASP	CB-CG-OD2	-5.38	113.46	118.30
1	E	411	ASP	CB-CG-OD2	-5.38	113.46	118.30
1	H	924	ASP	CB-CG-OD2	-5.38	113.46	118.30
1	I	924	ASP	CB-CG-OD2	-5.37	113.46	118.30
1	K	237	ARG	NE-CZ-NH1	5.37	122.99	120.30
1	K	916	ASP	CB-CG-OD2	-5.37	113.47	118.30
1	I	282	ARG	NE-CZ-NH1	5.37	122.98	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	924	ASP	CB-CG-OD2	-5.37	113.47	118.30
1	N	411	ASP	CB-CG-OD2	-5.37	113.47	118.30
1	O	237	ARG	NE-CZ-NH1	5.37	122.98	120.30
1	M	591	ASP	CB-CG-OD2	-5.36	113.47	118.30
1	P	411	ASP	CB-CG-OD2	-5.36	113.47	118.30
1	J	282	ARG	NE-CZ-NH1	5.36	122.98	120.30
1	L	237	ARG	NE-CZ-NH1	5.36	122.98	120.30
1	E	924	ASP	CB-CG-OD2	-5.36	113.48	118.30
1	B	411	ASP	CB-CG-OD2	-5.36	113.48	118.30
1	P	282	ARG	NE-CZ-NH1	5.36	122.98	120.30
1	K	411	ASP	CB-CG-OD2	-5.35	113.48	118.30
1	P	924	ASP	CB-CG-OD2	-5.35	113.48	118.30
1	B	82	ASP	CB-CG-OD2	-5.35	113.49	118.30
1	F	411	ASP	CB-CG-OD2	-5.35	113.49	118.30
1	N	924	ASP	CB-CG-OD2	-5.35	113.49	118.30
1	P	82	ASP	CB-CG-OD2	-5.35	113.49	118.30
1	C	938	ARG	N-CA-CB	5.35	120.22	110.60
1	K	924	ASP	CB-CG-OD2	-5.35	113.49	118.30
1	N	938	ARG	N-CA-CB	5.35	120.22	110.60
1	M	282	ARG	NE-CZ-NH1	5.34	122.97	120.30
1	B	938	ARG	N-CA-CB	5.34	120.21	110.60
1	I	237	ARG	NE-CZ-NH1	5.34	122.97	120.30
1	L	746	ASP	CB-CG-OD1	5.34	123.11	118.30
1	C	411	ASP	CB-CG-OD2	-5.34	113.50	118.30
1	I	938	ARG	N-CA-CB	5.34	120.21	110.60
1	P	938	ARG	N-CA-CB	5.34	120.21	110.60
1	E	746	ASP	CB-CG-OD1	5.34	123.10	118.30
1	F	938	ARG	N-CA-CB	5.34	120.21	110.60
1	K	938	ARG	N-CA-CB	5.34	120.21	110.60
1	M	164	ASP	CB-CG-OD2	-5.34	113.50	118.30
1	O	746	ASP	CB-CG-OD1	5.34	123.10	118.30
1	H	938	ARG	N-CA-CB	5.33	120.20	110.60
1	F	282	ARG	NE-CZ-NH1	5.33	122.97	120.30
1	G	938	ARG	N-CA-CB	5.33	120.20	110.60
1	M	237	ARG	NE-CZ-NH1	5.33	122.97	120.30
1	O	938	ARG	N-CA-CB	5.33	120.19	110.60
1	A	772	ASP	CB-CG-OD1	5.33	123.09	118.30
1	B	924	ASP	CB-CG-OD2	-5.33	113.51	118.30
1	M	938	ARG	N-CA-CB	5.33	120.18	110.60
1	B	237	ARG	NE-CZ-NH1	5.32	122.96	120.30
1	D	802	ASP	CB-CG-OD1	5.32	123.09	118.30
1	G	746	ASP	CB-CG-OD1	5.32	123.09	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	938	ARG	N-CA-CB	5.32	120.18	110.60
1	C	282	ARG	NE-CZ-NH1	5.32	122.96	120.30
1	L	938	ARG	N-CA-CB	5.32	120.17	110.60
1	D	772	ASP	CB-CG-OD1	5.32	123.09	118.30
1	O	442	ARG	NE-CZ-NH1	5.32	122.96	120.30
1	A	938	ARG	N-CA-CB	5.31	120.16	110.60
1	J	746	ASP	CB-CG-OD1	5.31	123.08	118.30
1	K	919	ASP	CB-CG-OD1	5.31	123.08	118.30
1	N	746	ASP	CB-CG-OD1	5.31	123.08	118.30
1	H	237	ARG	NE-CZ-NH1	5.31	122.95	120.30
1	P	772	ASP	CB-CG-OD1	5.31	123.08	118.30
1	A	237	ARG	NE-CZ-NH1	5.30	122.95	120.30
1	J	938	ARG	N-CA-CB	5.30	120.15	110.60
1	K	746	ASP	CB-CG-OD1	5.30	123.07	118.30
1	P	802	ASP	CB-CG-OD1	5.30	123.07	118.30
1	D	938	ARG	N-CA-CB	5.30	120.14	110.60
1	I	772	ASP	CB-CG-OD1	5.30	123.07	118.30
1	C	772	ASP	CB-CG-OD1	5.30	123.07	118.30
1	D	164	ASP	CB-CG-OD2	-5.30	113.53	118.30
1	O	802	ASP	CB-CG-OD1	5.30	123.07	118.30
1	D	237	ARG	NE-CZ-NH1	5.30	122.95	120.30
1	J	919	ASP	CB-CG-OD1	5.30	123.07	118.30
1	C	442	ARG	NE-CZ-NH1	5.30	122.95	120.30
1	F	561	ARG	NE-CZ-NH2	-5.30	117.65	120.30
1	B	746	ASP	CB-CG-OD1	5.30	123.07	118.30
1	D	746	ASP	CB-CG-OD1	5.30	123.07	118.30
1	E	919	ASP	CB-CG-OD1	5.30	123.07	118.30
1	F	772	ASP	CB-CG-OD1	5.29	123.06	118.30
1	M	746	ASP	CB-CG-OD1	5.29	123.06	118.30
1	M	772	ASP	CB-CG-OD1	5.29	123.06	118.30
1	M	802	ASP	CB-CG-OD1	5.29	123.06	118.30
1	I	746	ASP	CB-CG-OD1	5.29	123.06	118.30
1	L	919	ASP	CB-CG-OD1	5.29	123.06	118.30
1	P	746	ASP	CB-CG-OD1	5.29	123.06	118.30
1	A	919	ASP	CB-CG-OD1	5.29	123.06	118.30
1	H	746	ASP	CB-CG-OD1	5.29	123.06	118.30
1	J	442	ARG	NE-CZ-NH1	5.29	122.94	120.30
1	P	164	ASP	CB-CG-OD2	-5.29	113.54	118.30
1	A	802	ASP	CB-CG-OD1	5.28	123.06	118.30
1	L	164	ASP	CB-CG-OD2	-5.28	113.54	118.30
1	N	772	ASP	CB-CG-OD1	5.28	123.06	118.30
1	O	919	ASP	CB-CG-OD1	5.28	123.06	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	164	ASP	CB-CG-OD2	-5.28	113.55	118.30
1	E	772	ASP	CB-CG-OD1	5.28	123.05	118.30
1	P	919	ASP	CB-CG-OD1	5.28	123.05	118.30
1	E	237	ARG	NE-CZ-NH1	5.28	122.94	120.30
1	H	164	ASP	CB-CG-OD2	-5.28	113.55	118.30
1	F	919	ASP	CB-CG-OD1	5.28	123.05	118.30
1	J	509	ASP	CB-CG-OD1	5.28	123.05	118.30
1	M	561	ARG	NE-CZ-NH2	-5.28	117.66	120.30
1	D	509	ASP	CB-CG-OD1	5.28	123.05	118.30
1	F	164	ASP	CB-CG-OD2	-5.28	113.55	118.30
1	I	561	ARG	NE-CZ-NH2	-5.28	117.66	120.30
1	L	802	ASP	CB-CG-OD1	5.28	123.05	118.30
1	N	561	ARG	NE-CZ-NH2	-5.28	117.66	120.30
1	I	164	ASP	CB-CG-OD2	-5.27	113.55	118.30
1	B	164	ASP	CB-CG-OD2	-5.27	113.55	118.30
1	G	772	ASP	CB-CG-OD1	5.27	123.05	118.30
1	G	802	ASP	CB-CG-OD1	5.27	123.04	118.30
1	C	164	ASP	CB-CG-OD2	-5.27	113.56	118.30
1	C	802	ASP	CB-CG-OD1	5.27	123.04	118.30
1	C	919	ASP	CB-CG-OD1	5.27	123.04	118.30
1	D	919	ASP	CB-CG-OD1	5.27	123.04	118.30
1	L	772	ASP	CB-CG-OD1	5.27	123.04	118.30
1	M	919	ASP	CB-CG-OD1	5.27	123.04	118.30
1	N	164	ASP	CB-CG-OD2	-5.26	113.56	118.30
1	N	919	ASP	CB-CG-OD1	5.26	123.04	118.30
1	C	746	ASP	CB-CG-OD1	5.26	123.04	118.30
1	E	442	ARG	NE-CZ-NH1	5.26	122.93	120.30
1	B	802	ASP	CB-CG-OD1	5.26	123.03	118.30
1	F	237	ARG	NE-CZ-NH1	5.26	122.93	120.30
1	F	442	ARG	NE-CZ-NH1	5.26	122.93	120.30
1	E	561	ARG	NE-CZ-NH2	-5.26	117.67	120.30
1	J	772	ASP	CB-CG-OD1	5.26	123.03	118.30
1	P	509	ASP	CB-CG-OD1	5.26	123.03	118.30
1	H	802	ASP	CB-CG-OD1	5.26	123.03	118.30
1	K	772	ASP	CB-CG-OD1	5.26	123.03	118.30
1	I	919	ASP	CB-CG-OD1	5.26	123.03	118.30
1	L	509	ASP	CB-CG-OD1	5.26	123.03	118.30
1	O	282	ARG	NE-CZ-NH1	5.26	122.93	120.30
1	H	772	ASP	CB-CG-OD1	5.25	123.03	118.30
1	M	509	ASP	CB-CG-OD1	5.25	123.03	118.30
1	O	509	ASP	CB-CG-OD1	5.25	123.03	118.30
1	H	919	ASP	CB-CG-OD1	5.25	123.02	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	509	ASP	CB-CG-OD1	5.25	123.02	118.30
1	J	802	ASP	CB-CG-OD1	5.24	123.02	118.30
1	K	802	ASP	CB-CG-OD1	5.24	123.02	118.30
1	O	772	ASP	CB-CG-OD1	5.24	123.02	118.30
1	J	164	ASP	CB-CG-OD2	-5.24	113.58	118.30
1	B	561	ARG	NE-CZ-NH2	-5.24	117.68	120.30
1	B	919	ASP	CB-CG-OD1	5.24	123.02	118.30
1	N	442	ARG	NE-CZ-NH1	5.24	122.92	120.30
1	G	164	ASP	CB-CG-OD2	-5.24	113.58	118.30
1	O	164	ASP	CB-CG-OD2	-5.24	113.59	118.30
1	J	561	ARG	NE-CZ-NH2	-5.24	117.68	120.30
1	B	442	ARG	NE-CZ-NH1	5.24	122.92	120.30
1	B	772	ASP	CB-CG-OD1	5.24	123.01	118.30
1	C	237	ARG	NE-CZ-NH1	5.24	122.92	120.30
1	N	509	ASP	CB-CG-OD1	5.24	123.01	118.30
1	P	442	ARG	NE-CZ-NH1	5.24	122.92	120.30
1	D	561	ARG	NE-CZ-NH2	-5.23	117.68	120.30
1	P	561	ARG	NE-CZ-NH2	-5.23	117.68	120.30
1	A	442	ARG	NE-CZ-NH1	5.23	122.91	120.30
1	C	509	ASP	CB-CG-OD1	5.23	123.00	118.30
1	F	746	ASP	CB-CG-OD1	5.23	123.00	118.30
1	G	15	ASP	CB-CG-OD2	-5.23	113.59	118.30
1	K	164	ASP	CB-CG-OD2	-5.23	113.60	118.30
1	N	802	ASP	CB-CG-OD1	5.23	123.00	118.30
1	E	164	ASP	CB-CG-OD2	-5.23	113.60	118.30
1	L	15	ASP	CB-CG-OD2	-5.23	113.60	118.30
1	A	561	ARG	NE-CZ-NH2	-5.22	117.69	120.30
1	E	802	ASP	CB-CG-OD1	5.22	123.00	118.30
1	H	509	ASP	CB-CG-OD1	5.22	123.00	118.30
1	I	442	ARG	NE-CZ-NH1	5.22	122.91	120.30
1	I	509	ASP	CB-CG-OD1	5.22	123.00	118.30
1	I	802	ASP	CB-CG-OD1	5.22	123.00	118.30
1	J	996	ASP	CB-CG-OD1	5.22	123.00	118.30
1	K	561	ARG	NE-CZ-NH2	-5.22	117.69	120.30
1	N	15	ASP	CB-CG-OD2	-5.22	113.60	118.30
1	D	442	ARG	NE-CZ-NH1	5.22	122.91	120.30
1	G	919	ASP	CB-CG-OD1	5.22	123.00	118.30
1	I	15	ASP	CB-CG-OD2	-5.22	113.60	118.30
1	H	996	ASP	CB-CG-OD1	5.21	122.99	118.30
1	C	15	ASP	CB-CG-OD2	-5.21	113.61	118.30
1	D	772	ASP	CB-CG-OD2	-5.21	113.61	118.30
1	F	802	ASP	CB-CG-OD1	5.21	122.99	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	15	ASP	CB-CG-OD2	-5.21	113.61	118.30
1	M	996	ASP	CB-CG-OD1	5.21	122.99	118.30
1	B	509	ASP	CB-CG-OD1	5.21	122.99	118.30
1	F	509	ASP	CB-CG-OD1	5.21	122.99	118.30
1	H	561	ARG	NE-CZ-NH2	-5.21	117.70	120.30
1	I	996	ASP	CB-CG-OD1	5.21	122.99	118.30
1	P	439	ARG	NE-CZ-NH1	5.21	122.90	120.30
1	E	772	ASP	CB-CG-OD2	-5.21	113.61	118.30
1	F	224	ASP	CB-CG-OD2	-5.20	113.62	118.30
1	G	800	ARG	NE-CZ-NH2	-5.20	117.70	120.30
1	G	996	ASP	CB-CG-OD1	5.20	122.98	118.30
1	K	442	ARG	NE-CZ-NH1	5.20	122.90	120.30
1	E	255	ARG	NE-CZ-NH1	5.20	122.90	120.30
1	E	509	ASP	CB-CG-OD1	5.20	122.98	118.30
1	N	224	ASP	CB-CG-OD2	-5.20	113.62	118.30
1	P	15	ASP	CB-CG-OD2	-5.20	113.62	118.30
1	A	996	ASP	CB-CG-OD1	5.20	122.98	118.30
1	B	15	ASP	CB-CG-OD2	-5.20	113.62	118.30
1	K	919	ASP	CB-CG-OD2	-5.20	113.62	118.30
1	J	15	ASP	CB-CG-OD2	-5.20	113.62	118.30
1	A	509	ASP	CB-CG-OD1	5.20	122.97	118.30
1	D	919	ASP	CB-CG-OD2	-5.20	113.62	118.30
1	F	15	ASP	CB-CG-OD2	-5.20	113.62	118.30
1	H	772	ASP	CB-CG-OD2	-5.20	113.62	118.30
1	L	224	ASP	CB-CG-OD2	-5.20	113.62	118.30
1	L	919	ASP	CB-CG-OD2	-5.19	113.62	118.30
1	K	996	ASP	CB-CG-OD1	5.19	122.97	118.30
1	M	772	ASP	CB-CG-OD2	-5.19	113.63	118.30
1	P	772	ASP	CB-CG-OD2	-5.19	113.63	118.30
1	F	919	ASP	CB-CG-OD2	-5.19	113.63	118.30
1	J	237	ARG	NE-CZ-NH1	5.19	122.89	120.30
1	O	561	ARG	NE-CZ-NH2	-5.19	117.70	120.30
1	O	996	ASP	CB-CG-OD1	5.19	122.97	118.30
1	P	996	ASP	CB-CG-OD1	5.19	122.97	118.30
1	K	509	ASP	CB-CG-OD1	5.18	122.97	118.30
1	C	772	ASP	CB-CG-OD2	-5.18	113.64	118.30
1	G	442	ARG	NE-CZ-NH1	5.18	122.89	120.30
1	H	919	ASP	CB-CG-OD2	-5.18	113.64	118.30
1	J	919	ASP	CB-CG-OD2	-5.18	113.64	118.30
1	C	996	ASP	CB-CG-OD1	5.18	122.96	118.30
1	D	15	ASP	CB-CG-OD2	-5.18	113.64	118.30
1	M	15	ASP	CB-CG-OD2	-5.18	113.64	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	15	ASP	CB-CG-OD2	-5.17	113.64	118.30
1	C	224	ASP	CB-CG-OD2	-5.17	113.64	118.30
1	J	255	ARG	NE-CZ-NH1	5.17	122.89	120.30
1	M	442	ARG	NE-CZ-NH1	5.17	122.89	120.30
1	O	224	ASP	CB-CG-OD2	-5.17	113.64	118.30
1	P	237	ARG	NE-CZ-NH1	5.17	122.89	120.30
1	I	224	ASP	CB-CG-OD2	-5.17	113.64	118.30
1	D	996	ASP	CB-CG-OD1	5.17	122.95	118.30
1	G	561	ARG	NE-CZ-NH2	-5.17	117.72	120.30
1	C	561	ARG	NE-CZ-NH2	-5.17	117.72	120.30
1	J	772	ASP	CB-CG-OD2	-5.17	113.65	118.30
1	E	224	ASP	CB-CG-OD2	-5.17	113.65	118.30
1	E	919	ASP	CB-CG-OD2	-5.17	113.65	118.30
1	O	479	ASP	CB-CG-OD2	-5.17	113.65	118.30
1	L	772	ASP	CB-CG-OD2	-5.17	113.65	118.30
1	M	224	ASP	CB-CG-OD2	-5.17	113.65	118.30
1	B	772	ASP	CB-CG-OD2	-5.16	113.65	118.30
1	O	772	ASP	CB-CG-OD2	-5.16	113.65	118.30
1	D	439	ARG	NE-CZ-NH1	5.16	122.88	120.30
1	G	772	ASP	CB-CG-OD2	-5.16	113.66	118.30
1	I	439	ARG	NE-CZ-NH1	5.16	122.88	120.30
1	O	919	ASP	CB-CG-OD2	-5.16	113.66	118.30
1	L	996	ASP	CB-CG-OD1	5.16	122.94	118.30
1	A	772	ASP	CB-CG-OD2	-5.16	113.66	118.30
1	D	800	ARG	NE-CZ-NH2	-5.16	117.72	120.30
1	E	15	ASP	CB-CG-OD2	-5.16	113.66	118.30
1	F	800	ARG	NE-CZ-NH2	-5.16	117.72	120.30
1	H	15	ASP	CB-CG-OD2	-5.16	113.66	118.30
1	I	772	ASP	CB-CG-OD2	-5.16	113.66	118.30
1	D	224	ASP	CB-CG-OD2	-5.15	113.66	118.30
1	C	919	ASP	CB-CG-OD2	-5.15	113.66	118.30
1	N	255	ARG	NE-CZ-NH1	5.15	122.88	120.30
1	O	255	ARG	NE-CZ-NH1	5.15	122.88	120.30
1	N	996	ASP	CB-CG-OD1	5.15	122.94	118.30
1	F	479	ASP	CB-CG-OD2	-5.15	113.67	118.30
1	G	919	ASP	CB-CG-OD2	-5.15	113.67	118.30
1	P	881	ARG	NE-CZ-NH2	-5.15	117.73	120.30
1	B	224	ASP	CB-CG-OD2	-5.15	113.67	118.30
1	E	996	ASP	CB-CG-OD1	5.15	122.93	118.30
1	F	996	ASP	CB-CG-OD1	5.15	122.93	118.30
1	K	772	ASP	CB-CG-OD2	-5.15	113.67	118.30
1	K	800	ARG	NE-CZ-NH2	-5.15	117.73	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	919	ASP	CB-CG-OD2	-5.15	113.67	118.30
1	P	224	ASP	CB-CG-OD2	-5.15	113.67	118.30
1	J	800	ARG	NE-CZ-NH2	-5.14	117.73	120.30
1	M	479	ASP	CB-CG-OD2	-5.14	113.67	118.30
1	I	800	ARG	NE-CZ-NH2	-5.14	117.73	120.30
1	P	255	ARG	NE-CZ-NH1	5.14	122.87	120.30
1	A	224	ASP	CB-CG-OD2	-5.14	113.67	118.30
1	A	919	ASP	CB-CG-OD2	-5.14	113.67	118.30
1	B	800	ARG	NE-CZ-NH2	-5.14	117.73	120.30
1	J	479	ASP	CB-CG-OD2	-5.14	113.67	118.30
1	N	292	ARG	NE-CZ-NH1	5.14	122.87	120.30
1	P	919	ASP	CB-CG-OD2	-5.14	113.67	118.30
1	H	442	ARG	NE-CZ-NH1	5.14	122.87	120.30
1	J	224	ASP	CB-CG-OD2	-5.14	113.68	118.30
1	B	919	ASP	CB-CG-OD2	-5.14	113.68	118.30
1	C	479	ASP	CB-CG-OD2	-5.14	113.68	118.30
1	F	772	ASP	CB-CG-OD2	-5.14	113.68	118.30
1	G	224	ASP	CB-CG-OD2	-5.13	113.68	118.30
1	N	919	ASP	CB-CG-OD2	-5.13	113.68	118.30
1	O	15	ASP	CB-CG-OD2	-5.13	113.68	118.30
1	A	439	ARG	NE-CZ-NH1	5.13	122.87	120.30
1	E	439	ARG	NE-CZ-NH1	5.13	122.86	120.30
1	L	561	ARG	NE-CZ-NH2	-5.13	117.73	120.30
1	K	224	ASP	CB-CG-OD2	-5.13	113.69	118.30
1	N	772	ASP	CB-CG-OD2	-5.12	113.69	118.30
1	A	800	ARG	NE-CZ-NH2	-5.12	117.74	120.30
1	B	479	ASP	CB-CG-OD2	-5.12	113.69	118.30
1	C	987	ASP	CB-CG-OD2	-5.12	113.69	118.30
1	E	479	ASP	CB-CG-OD2	-5.12	113.69	118.30
1	E	800	ARG	NE-CZ-NH2	-5.12	117.74	120.30
1	F	255	ARG	NE-CZ-NH1	5.12	122.86	120.30
1	K	439	ARG	NE-CZ-NH1	5.12	122.86	120.30
1	N	479	ASP	CB-CG-OD2	-5.12	113.69	118.30
1	A	987	ASP	CB-CG-OD2	-5.12	113.69	118.30
1	K	479	ASP	CB-CG-OD2	-5.12	113.69	118.30
1	H	255	ARG	NE-CZ-NH1	5.12	122.86	120.30
1	B	439	ARG	NE-CZ-NH1	5.12	122.86	120.30
1	B	996	ASP	CB-CG-OD1	5.12	122.90	118.30
1	D	881	ARG	NE-CZ-NH2	-5.11	117.74	120.30
1	H	881	ARG	NE-CZ-NH2	-5.11	117.74	120.30
1	I	919	ASP	CB-CG-OD2	-5.11	113.70	118.30
1	M	255	ARG	NE-CZ-NH1	5.11	122.86	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	224	ASP	CB-CG-OD2	-5.11	113.70	118.30
1	D	479	ASP	CB-CG-OD2	-5.11	113.71	118.30
1	H	439	ARG	NE-CZ-NH1	5.11	122.85	120.30
1	I	987	ASP	CB-CG-OD2	-5.11	113.70	118.30
1	K	255	ARG	NE-CZ-NH1	5.10	122.85	120.30
1	C	439	ARG	NE-CZ-NH1	5.10	122.85	120.30
1	D	255	ARG	NE-CZ-NH1	5.10	122.85	120.30
1	E	292	ARG	NE-CZ-NH1	5.10	122.85	120.30
1	L	442	ARG	NE-CZ-NH1	5.10	122.85	120.30
1	N	185	ALA	N-CA-CB	5.10	117.24	110.10
1	G	479	ASP	CB-CG-OD2	-5.10	113.71	118.30
1	J	881	ARG	NE-CZ-NH2	-5.10	117.75	120.30
1	P	479	ASP	CB-CG-OD2	-5.10	113.71	118.30
1	L	185	ALA	N-CA-CB	5.10	117.24	110.10
1	C	255	ARG	NE-CZ-NH1	5.10	122.85	120.30
1	E	881	ARG	NE-CZ-NH2	-5.10	117.75	120.30
1	H	185	ALA	N-CA-CB	5.10	117.23	110.10
1	A	255	ARG	NE-CZ-NH1	5.09	122.85	120.30
1	H	447	ASP	CB-CG-OD1	5.09	122.89	118.30
1	I	255	ARG	NE-CZ-NH1	5.09	122.85	120.30
1	L	479	ASP	CB-CG-OD2	-5.09	113.71	118.30
1	O	800	ARG	NE-CZ-NH2	-5.09	117.75	120.30
1	B	147	ASN	N-CA-CB	-5.09	101.43	110.60
1	E	147	ASN	N-CA-CB	-5.09	101.43	110.60
1	F	881	ARG	NE-CZ-NH2	-5.09	117.75	120.30
1	G	987	ASP	CB-CG-OD2	-5.09	113.72	118.30
1	I	479	ASP	CB-CG-OD2	-5.09	113.72	118.30
1	A	479	ASP	CB-CG-OD2	-5.09	113.72	118.30
1	P	292	ARG	NE-CZ-NH1	5.09	122.85	120.30
1	D	417	THR	CA-CB-CG2	-5.09	105.28	112.40
1	B	185	ALA	N-CA-CB	5.09	117.22	110.10
1	J	439	ARG	NE-CZ-NH1	5.09	122.84	120.30
1	E	417	THR	CA-CB-CG2	-5.09	105.28	112.40
1	K	185	ALA	N-CA-CB	5.09	117.22	110.10
1	C	417	THR	CA-CB-CG2	-5.08	105.28	112.40
1	I	881	ARG	NE-CZ-NH2	-5.08	117.76	120.30
1	J	417	THR	CA-CB-CG2	-5.08	105.29	112.40
1	L	255	ARG	NE-CZ-NH1	5.08	122.84	120.30
1	N	439	ARG	NE-CZ-NH1	5.08	122.84	120.30
1	O	881	ARG	NE-CZ-NH2	-5.08	117.76	120.30
1	O	147	ASN	N-CA-CB	-5.08	101.46	110.60
1	F	417	THR	CA-CB-CG2	-5.08	105.29	112.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	147	ASN	N-CA-CB	-5.08	101.46	110.60
1	K	881	ARG	NE-CZ-NH2	-5.08	117.76	120.30
1	L	147	ASN	N-CA-CB	-5.08	101.46	110.60
1	O	439	ARG	NE-CZ-NH1	5.08	122.84	120.30
1	P	987	ASP	CB-CG-OD2	-5.08	113.73	118.30
1	G	417	THR	CA-CB-CG2	-5.08	105.29	112.40
1	H	987	ASP	CB-CG-OD2	-5.08	113.73	118.30
1	K	147	ASN	N-CA-CB	-5.08	101.46	110.60
1	P	147	ASN	N-CA-CB	-5.08	101.47	110.60
1	C	147	ASN	N-CA-CB	-5.07	101.47	110.60
1	H	800	ARG	NE-CZ-NH2	-5.07	117.76	120.30
1	M	147	ASN	N-CA-CB	-5.07	101.47	110.60
1	M	987	ASP	CB-CG-OD2	-5.07	113.73	118.30
1	O	185	ALA	N-CA-CB	5.07	117.20	110.10
1	G	439	ARG	NE-CZ-NH1	5.07	122.84	120.30
1	N	147	ASN	N-CA-CB	-5.07	101.47	110.60
1	A	147	ASN	N-CA-CB	-5.07	101.47	110.60
1	J	185	ALA	N-CA-CB	5.07	117.20	110.10
1	J	292	ARG	NE-CZ-NH1	5.07	122.83	120.30
1	P	185	ALA	N-CA-CB	5.07	117.20	110.10
1	P	417	THR	CA-CB-CG2	-5.07	105.30	112.40
1	D	147	ASN	N-CA-CB	-5.07	101.48	110.60
1	I	147	ASN	N-CA-CB	-5.07	101.48	110.60
1	A	185	ALA	N-CA-CB	5.07	117.19	110.10
1	E	185	ALA	N-CA-CB	5.07	117.19	110.10
1	C	881	ARG	NE-CZ-NH2	-5.06	117.77	120.30
1	D	987	ASP	CB-CG-OD2	-5.06	113.74	118.30
1	F	147	ASN	N-CA-CB	-5.06	101.49	110.60
1	F	388	ARG	NE-CZ-NH1	5.06	122.83	120.30
1	G	147	ASN	N-CA-CB	-5.06	101.49	110.60
1	L	800	ARG	NE-CZ-NH2	-5.06	117.77	120.30
1	E	441	THR	CA-CB-CG2	-5.06	105.31	112.40
1	F	252	ASP	CB-CG-OD1	5.06	122.86	118.30
1	H	479	ASP	CB-CG-OD2	-5.06	113.75	118.30
1	M	439	ARG	NE-CZ-NH1	5.06	122.83	120.30
1	N	417	THR	CA-CB-CG2	-5.06	105.31	112.40
1	C	1013	ARG	NE-CZ-NH1	5.06	122.83	120.30
1	H	147	ASN	N-CA-CB	-5.06	101.49	110.60
1	L	447	ASP	CB-CG-OD1	5.06	122.85	118.30
1	A	1013	ARG	NE-CZ-NH1	5.06	122.83	120.30
1	F	185	ALA	N-CA-CB	5.06	117.18	110.10
1	O	417	THR	CA-CB-CG2	-5.06	105.32	112.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	185	ALA	N-CA-CB	5.05	117.18	110.10
1	I	292	ARG	NE-CZ-NH1	5.05	122.83	120.30
1	I	417	THR	CA-CB-CG2	-5.05	105.33	112.40
1	I	441	THR	CA-CB-CG2	-5.05	105.32	112.40
1	L	417	THR	CA-CB-CG2	-5.05	105.33	112.40
1	L	987	ASP	CB-CG-OD2	-5.05	113.75	118.30
1	P	800	ARG	NE-CZ-NH2	-5.05	117.77	120.30
1	D	441	THR	CA-CB-CG2	-5.05	105.33	112.40
1	E	447	ASP	CB-CG-OD1	5.05	122.84	118.30
1	H	417	THR	CA-CB-CG2	-5.05	105.33	112.40
1	I	185	ALA	N-CA-CB	5.05	117.17	110.10
1	M	185	ALA	N-CA-CB	5.05	117.17	110.10
1	M	447	ASP	CB-CG-OD1	5.05	122.84	118.30
1	N	800	ARG	NE-CZ-NH2	-5.05	117.78	120.30
1	P	447	ASP	CB-CG-OD1	5.05	122.84	118.30
1	E	987	ASP	CB-CG-OD2	-5.05	113.76	118.30
1	F	987	ASP	CB-CG-OD2	-5.05	113.76	118.30
1	G	388	ARG	NE-CZ-NH1	5.05	122.82	120.30
1	I	447	ASP	CB-CG-OD1	5.05	122.84	118.30
1	M	417	THR	CA-CB-CG2	-5.05	105.33	112.40
1	D	447	ASP	CB-CG-OD1	5.04	122.84	118.30
1	F	439	ARG	NE-CZ-NH1	5.04	122.82	120.30
1	G	185	ALA	N-CA-CB	5.04	117.16	110.10
1	A	417	THR	CA-CB-CG2	-5.04	105.34	112.40
1	B	252	ASP	CB-CG-OD1	5.04	122.84	118.30
1	B	441	THR	CA-CB-CG2	-5.04	105.34	112.40
1	D	185	ALA	N-CA-CB	5.04	117.16	110.10
1	F	292	ARG	NE-CZ-NH1	5.04	122.82	120.30
1	F	507	ASP	CB-CG-OD2	-5.04	113.76	118.30
1	O	441	THR	CA-CB-CG2	-5.04	105.34	112.40
1	A	881	ARG	NE-CZ-NH2	-5.04	117.78	120.30
1	B	417	THR	CA-CB-CG2	-5.04	105.34	112.40
1	C	447	ASP	CB-CG-OD1	5.04	122.84	118.30
1	F	447	ASP	CB-CG-OD1	5.04	122.84	118.30
1	N	987	ASP	CB-CG-OD2	-5.04	113.76	118.30
1	B	507	ASP	CB-CG-OD2	-5.04	113.77	118.30
1	J	987	ASP	CB-CG-OD2	-5.04	113.77	118.30
1	K	987	ASP	CB-CG-OD2	-5.04	113.77	118.30
1	M	881	ARG	NE-CZ-NH2	-5.04	117.78	120.30
1	A	441	THR	CA-CB-CG2	-5.04	105.35	112.40
1	A	447	ASP	CB-CG-OD1	5.04	122.83	118.30
1	B	987	ASP	CB-CG-OD2	-5.04	113.77	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	292	ARG	NE-CZ-NH1	5.04	122.82	120.30
1	C	800	ARG	NE-CZ-NH2	-5.04	117.78	120.30
1	K	417	THR	CA-CB-CG2	-5.04	105.35	112.40
1	F	310	ARG	N-CA-CB	5.03	119.66	110.60
1	J	388	ARG	NE-CZ-NH1	5.03	122.82	120.30
1	L	439	ARG	NE-CZ-NH1	5.03	122.82	120.30
1	O	310	ARG	N-CA-CB	5.03	119.66	110.60
1	B	447	ASP	CB-CG-OD1	5.03	122.83	118.30
1	J	441	THR	CA-CB-CG2	-5.03	105.36	112.40
1	M	800	ARG	NE-CZ-NH2	-5.03	117.79	120.30
1	K	292	ARG	NE-CZ-NH1	5.03	122.81	120.30
1	O	252	ASP	CB-CG-OD1	5.03	122.83	118.30
1	P	441	THR	CA-CB-CG2	-5.03	105.36	112.40
1	D	252	ASP	CB-CG-OD1	5.03	122.82	118.30
1	D	507	ASP	CB-CG-OD2	-5.03	113.78	118.30
1	G	441	THR	CA-CB-CG2	-5.03	105.36	112.40
1	H	292	ARG	NE-CZ-NH1	5.03	122.81	120.30
1	N	881	ARG	NE-CZ-NH2	-5.03	117.79	120.30
1	P	388	ARG	NE-CZ-NH1	5.03	122.81	120.30
1	O	987	ASP	CB-CG-OD2	-5.02	113.78	118.30
1	L	310	ARG	N-CA-CB	5.02	119.64	110.60
1	H	441	THR	CA-CB-CG2	-5.02	105.37	112.40
1	I	310	ARG	N-CA-CB	5.02	119.64	110.60
1	D	388	ARG	NE-CZ-NH1	5.02	122.81	120.30
1	F	441	THR	CA-CB-CG2	-5.02	105.37	112.40
1	G	310	ARG	N-CA-CB	5.02	119.63	110.60
1	K	441	THR	CA-CB-CG2	-5.02	105.37	112.40
1	K	447	ASP	CB-CG-OD1	5.02	122.82	118.30
1	N	1013	ARG	NE-CZ-NH1	5.02	122.81	120.30
1	G	1013	ARG	NE-CZ-NH1	5.02	122.81	120.30
1	L	1013	ARG	NE-CZ-NH1	5.02	122.81	120.30
1	M	310	ARG	N-CA-CB	5.02	119.63	110.60
1	M	441	THR	CA-CB-CG2	-5.02	105.38	112.40
1	P	252	ASP	CB-CG-OD1	5.02	122.82	118.30
1	P	507	ASP	CB-CG-OD2	-5.02	113.78	118.30
1	C	441	THR	CA-CB-CG2	-5.02	105.38	112.40
1	N	310	ARG	N-CA-CB	5.02	119.63	110.60
1	C	252	ASP	CB-CG-OD1	5.01	122.81	118.30
1	G	252	ASP	CB-CG-OD1	5.01	122.81	118.30
1	G	292	ARG	NE-CZ-NH1	5.01	122.81	120.30
1	L	441	THR	CA-CB-CG2	-5.01	105.38	112.40
1	C	310	ARG	N-CA-CB	5.01	119.62	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	1013	ARG	NE-CZ-NH1	5.01	122.81	120.30
1	K	252	ASP	CB-CG-OD1	5.01	122.81	118.30
1	M	1013	ARG	NE-CZ-NH1	5.01	122.80	120.30
1	N	447	ASP	CB-CG-OD1	5.01	122.81	118.30
1	P	310	ARG	N-CA-CB	5.01	119.62	110.60
1	M	252	ASP	CB-CG-OD1	5.01	122.81	118.30
1	C	388	ARG	NE-CZ-NH1	5.01	122.80	120.30
1	I	507	ASP	CB-CG-OD2	-5.01	113.79	118.30
1	J	310	ARG	N-CA-CB	5.01	119.61	110.60
1	M	388	ARG	NE-CZ-NH1	5.00	122.80	120.30
1	O	1013	ARG	NE-CZ-NH1	5.00	122.80	120.30
1	P	1013	ARG	NE-CZ-NH1	5.00	122.80	120.30
1	A	252	ASP	CB-CG-OD1	5.00	122.80	118.30
1	H	310	ARG	N-CA-CB	5.00	119.61	110.60
1	N	441	THR	CA-CB-CG2	-5.00	105.39	112.40
1	C	292	ARG	NE-CZ-NH1	5.00	122.80	120.30
1	N	252	ASP	CB-CG-OD1	5.00	122.80	118.30
1	O	292	ARG	NE-CZ-NH1	5.00	122.80	120.30

There are no chirality outliers.

There are no planarity outliers.

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	8219	0	7811	586	3
1	B	8219	0	7811	563	5
1	C	8219	0	7811	548	1
1	D	8219	0	7811	585	0
1	E	8219	0	7811	568	0
1	F	8219	0	7811	557	1
1	G	8219	0	7811	571	1
1	H	8219	0	7811	564	0
1	I	8219	0	7811	573	1
1	J	8219	0	7811	566	0
1	K	8219	0	7811	561	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	L	8219	0	7811	574	1
1	M	8219	0	7811	566	0
1	N	8219	0	7811	566	0
1	O	8219	0	7811	575	0
1	P	8219	0	7811	576	2
2	A	23	0	21	0	0
2	B	23	0	21	0	0
2	C	23	0	21	0	0
2	D	23	0	21	0	0
2	E	23	0	21	0	0
2	F	23	0	21	0	0
2	G	23	0	21	0	0
2	H	23	0	21	0	0
2	I	23	0	21	0	0
2	J	23	0	21	0	0
2	K	23	0	21	0	0
2	L	23	0	21	0	0
2	M	23	0	21	0	0
2	N	23	0	21	0	0
2	O	23	0	21	0	0
2	P	23	0	21	0	0
3	A	2	0	0	0	0
3	B	2	0	0	0	0
3	C	2	0	0	0	0
3	D	2	0	0	0	0
3	E	2	0	0	0	0
3	F	2	0	0	0	0
3	G	2	0	0	0	0
3	H	2	0	0	0	0
3	I	2	0	0	0	0
3	J	2	0	0	0	0
3	K	2	0	0	0	0
3	L	2	0	0	0	0
3	M	2	0	0	0	0
3	N	2	0	0	0	0
3	O	2	0	0	0	0
3	P	2	0	0	0	0
4	A	2	0	0	0	0
4	B	2	0	0	0	0
4	C	2	0	0	0	0
4	D	2	0	0	0	0
4	E	2	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	F	2	0	0	0	0
4	G	2	0	0	0	0
4	H	2	0	0	0	0
4	I	2	0	0	0	0
4	J	2	0	0	0	0
4	K	2	0	0	0	0
4	L	2	0	0	0	0
4	M	2	0	0	0	0
4	N	2	0	0	0	0
4	O	2	0	0	0	0
4	P	2	0	0	0	0
5	A	160	0	0	6	0
5	B	163	0	0	6	0
5	C	162	0	0	6	0
5	D	163	0	0	6	0
5	E	162	0	0	6	0
5	F	162	0	0	6	0
5	G	162	0	0	6	0
5	H	162	0	0	6	0
5	I	162	0	0	6	1
5	J	162	0	0	6	0
5	K	162	0	0	6	0
5	L	162	0	0	6	0
5	M	161	0	0	6	0
5	N	163	0	0	6	0
5	O	161	0	0	6	0
5	P	163	0	0	6	0
All	All	134528	0	125312	8966	8

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 35.

All (8966) 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:J:43:ARG:HH11	1:J:43:ARG:HG2	1.20	1.07
1:H:43:ARG:HG2	1:H:43:ARG:HH11	1.20	1.07
1:I:43:ARG:HH11	1:I:43:ARG:HG2	1.20	1.07
1:A:43:ARG:HH11	1:A:43:ARG:HG2	1.20	1.07
1:M:43:ARG:HH11	1:M:43:ARG:HG2	1.20	1.06
1:B:434:PRO:HB3	1:C:434:PRO:HB3	1.35	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:43:ARG:HG2	1:B:43:ARG:HH11	1.20	1.05
1:P:427:THR:HA	1:P:436:MET:HE1	1.39	1.04
1:C:43:ARG:HG2	1:C:43:ARG:HH11	1.20	1.03
1:P:43:ARG:HH11	1:P:43:ARG:HG2	1.20	1.02
1:E:43:ARG:HH11	1:E:43:ARG:HG2	1.20	1.02
1:O:43:ARG:HH11	1:O:43:ARG:HG2	1.20	1.02
1:F:43:ARG:HH11	1:F:43:ARG:HG2	1.20	1.02
1:G:43:ARG:HH11	1:G:43:ARG:HG2	1.20	1.02
1:L:43:ARG:HG2	1:L:43:ARG:HH11	1.20	1.02
1:N:43:ARG:HG2	1:N:43:ARG:HH11	1.20	1.02
1:K:43:ARG:HH11	1:K:43:ARG:HG2	1.20	1.01
1:M:777:LEU:HD11	1:M:889:ALA:HA	1.43	1.01
1:J:777:LEU:HD11	1:J:889:ALA:HA	1.43	1.01
1:D:43:ARG:HH11	1:D:43:ARG:HG2	1.20	1.01
1:E:777:LEU:HD11	1:E:889:ALA:HA	1.43	1.00
1:J:427:THR:HA	1:J:436:MET:HE1	1.43	1.00
1:K:777:LEU:HD11	1:K:889:ALA:HA	1.43	1.00
1:C:777:LEU:HD11	1:C:889:ALA:HA	1.43	1.00
1:F:427:THR:HA	1:F:436:MET:HE1	1.43	1.00
1:J:744:GLU:HB3	1:J:745:MET:HE3	1.44	1.00
1:A:777:LEU:HD11	1:A:889:ALA:HA	1.43	0.99
1:B:744:GLU:HB3	1:B:745:MET:HE3	1.44	0.99
1:G:777:LEU:HD11	1:G:889:ALA:HA	1.43	0.99
1:C:427:THR:HA	1:C:436:MET:HE1	1.43	0.99
1:O:777:LEU:HD11	1:O:889:ALA:HA	1.43	0.99
1:H:744:GLU:HB3	1:H:745:MET:HE3	1.45	0.99
1:H:777:LEU:HD11	1:H:889:ALA:HA	1.43	0.98
1:O:744:GLU:HB3	1:O:745:MET:HE3	1.44	0.98
1:D:777:LEU:HD11	1:D:889:ALA:HA	1.43	0.98
1:I:744:GLU:HB3	1:I:745:MET:HE3	1.44	0.98
1:K:740:LEU:HD12	1:K:741:THR:H	1.29	0.98
1:L:777:LEU:HD11	1:L:889:ALA:HA	1.43	0.98
1:P:777:LEU:HD11	1:P:889:ALA:HA	1.43	0.98
1:D:427:THR:HA	1:D:436:MET:HE1	1.42	0.98
1:B:427:THR:HA	1:B:436:MET:HE1	1.46	0.98
1:L:740:LEU:HD12	1:L:741:THR:H	1.29	0.98
1:N:740:LEU:HD12	1:N:741:THR:H	1.29	0.98
1:F:740:LEU:HD12	1:F:741:THR:H	1.29	0.97
1:I:777:LEU:HD11	1:I:889:ALA:HA	1.43	0.97
1:G:740:LEU:HD12	1:G:741:THR:H	1.29	0.97
1:K:744:GLU:HB3	1:K:745:MET:HE3	1.44	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:744:GLU:HB3	1:L:745:MET:HE3	1.46	0.97
1:B:777:LEU:HD11	1:B:889:ALA:HA	1.43	0.97
1:D:744:GLU:HB3	1:D:745:MET:HE3	1.44	0.97
1:J:740:LEU:HD12	1:J:741:THR:H	1.29	0.97
1:F:744:GLU:HB3	1:F:745:MET:HE3	1.44	0.97
1:N:777:LEU:HD11	1:N:889:ALA:HA	1.43	0.97
1:G:427:THR:HA	1:G:436:MET:HE1	1.47	0.97
1:N:744:GLU:HB3	1:N:745:MET:HE3	1.44	0.97
1:F:777:LEU:HD11	1:F:889:ALA:HA	1.43	0.97
1:H:740:LEU:HD12	1:H:741:THR:H	1.29	0.96
1:P:740:LEU:HD12	1:P:741:THR:H	1.29	0.96
1:I:427:THR:HA	1:I:436:MET:HE1	1.47	0.96
1:B:740:LEU:HD12	1:B:741:THR:H	1.29	0.96
1:E:744:GLU:HB3	1:E:745:MET:HE3	1.44	0.96
1:M:744:GLU:HB3	1:M:745:MET:HE3	1.44	0.96
1:O:740:LEU:HD12	1:O:741:THR:H	1.29	0.96
1:I:740:LEU:HD12	1:I:741:THR:H	1.29	0.96
1:L:427:THR:HA	1:L:436:MET:HE1	1.46	0.95
1:D:740:LEU:HD12	1:D:741:THR:H	1.29	0.95
1:G:744:GLU:HB3	1:G:745:MET:HE3	1.48	0.95
1:E:740:LEU:HD12	1:E:741:THR:H	1.29	0.95
1:M:740:LEU:HD12	1:M:741:THR:H	1.29	0.95
1:P:744:GLU:HB3	1:P:745:MET:HE3	1.47	0.95
1:C:740:LEU:HD12	1:C:741:THR:H	1.29	0.95
1:A:740:LEU:HD12	1:A:741:THR:H	1.29	0.94
1:A:744:GLU:HB3	1:A:745:MET:HE3	1.46	0.94
1:C:744:GLU:HB3	1:C:745:MET:HE3	1.45	0.94
1:O:427:THR:HA	1:O:436:MET:HE1	1.50	0.94
1:K:427:THR:HA	1:K:436:MET:CE	1.98	0.94
1:J:427:THR:HA	1:J:436:MET:CE	1.98	0.93
1:H:427:THR:HA	1:H:436:MET:HE1	1.49	0.93
1:P:436:MET:HE3	1:P:467:ASN:HD22	1.34	0.93
1:L:427:THR:HA	1:L:436:MET:CE	1.98	0.93
1:A:427:THR:HA	1:A:436:MET:CE	1.98	0.93
1:H:427:THR:HA	1:H:436:MET:CE	1.98	0.93
1:M:427:THR:HA	1:M:436:MET:CE	1.98	0.93
1:D:427:THR:HA	1:D:436:MET:CE	1.98	0.93
1:F:427:THR:HA	1:F:436:MET:CE	1.98	0.93
1:O:427:THR:HA	1:O:436:MET:CE	1.98	0.93
1:G:427:THR:HA	1:G:436:MET:CE	1.98	0.92
1:N:427:THR:HA	1:N:436:MET:CE	1.98	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:427:THR:HA	1:P:436:MET:CE	1.98	0.92
1:B:427:THR:HA	1:B:436:MET:CE	1.98	0.92
1:E:427:THR:HA	1:E:436:MET:CE	1.98	0.92
1:C:427:THR:HA	1:C:436:MET:CE	1.98	0.92
1:I:427:THR:HA	1:I:436:MET:CE	1.98	0.92
1:I:102:ASN:HD22	1:I:201:ASP:HB2	1.35	0.92
1:B:102:ASN:HD22	1:B:201:ASP:HB2	1.35	0.92
1:K:427:THR:HA	1:K:436:MET:HE1	1.51	0.91
1:J:102:ASN:HD22	1:J:201:ASP:HB2	1.35	0.91
1:M:427:THR:HA	1:M:436:MET:HE1	1.49	0.91
1:L:102:ASN:HD22	1:L:201:ASP:HB2	1.35	0.91
1:K:102:ASN:HD22	1:K:201:ASP:HB2	1.35	0.91
1:E:427:THR:HA	1:E:436:MET:HE1	1.49	0.91
1:H:102:ASN:HD22	1:H:201:ASP:HB2	1.35	0.91
1:F:46:ARG:HH11	1:F:46:ARG:HG3	1.37	0.90
1:C:46:ARG:HG3	1:C:46:ARG:HH11	1.36	0.90
1:A:46:ARG:HH11	1:A:46:ARG:HG3	1.36	0.90
1:M:425:ARG:NH2	1:P:287:ASP:OD2	2.03	0.90
1:M:102:ASN:HD22	1:M:201:ASP:HB2	1.35	0.90
1:M:46:ARG:HG3	1:M:46:ARG:HH11	1.36	0.90
1:K:46:ARG:HH11	1:K:46:ARG:HG3	1.37	0.90
1:D:436:MET:HE3	1:D:467:ASN:HD22	1.36	0.90
1:D:102:ASN:HD22	1:D:201:ASP:HB2	1.35	0.90
1:J:668:VAL:HG13	1:J:669:PRO:HD2	1.54	0.90
1:M:668:VAL:HG13	1:M:669:PRO:HD2	1.54	0.90
1:F:102:ASN:HD22	1:F:201:ASP:HB2	1.35	0.90
1:A:102:ASN:HD22	1:A:201:ASP:HB2	1.35	0.90
1:F:668:VAL:HG13	1:F:669:PRO:HD2	1.54	0.90
1:K:18:ASN:ND2	1:K:21:VAL:HG23	1.87	0.90
1:E:18:ASN:ND2	1:E:21:VAL:HG23	1.87	0.90
1:F:436:MET:HE3	1:F:467:ASN:HD22	1.37	0.90
1:N:18:ASN:ND2	1:N:21:VAL:HG23	1.87	0.90
1:C:18:ASN:ND2	1:C:21:VAL:HG23	1.87	0.90
1:L:316:HIS:HA	1:L:323:ILE:HD13	1.55	0.90
1:C:102:ASN:HD22	1:C:201:ASP:HB2	1.35	0.90
1:J:18:ASN:ND2	1:J:21:VAL:HG23	1.87	0.90
1:E:668:VAL:HG13	1:E:669:PRO:HD2	1.54	0.89
1:N:668:VAL:HG13	1:N:669:PRO:HD2	1.54	0.89
1:L:18:ASN:ND2	1:L:21:VAL:HG23	1.87	0.89
1:F:18:ASN:ND2	1:F:21:VAL:HG23	1.87	0.89
1:M:18:ASN:ND2	1:M:21:VAL:HG23	1.87	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:316:HIS:HA	1:I:323:ILE:HD13	1.55	0.89
1:H:46:ARG:HG3	1:H:46:ARG:HH11	1.36	0.89
1:O:18:ASN:ND2	1:O:21:VAL:HG23	1.87	0.89
1:G:102:ASN:HD22	1:G:201:ASP:HB2	1.35	0.89
1:J:46:ARG:HH11	1:J:46:ARG:HG3	1.36	0.89
1:G:18:ASN:ND2	1:G:21:VAL:HG23	1.87	0.89
1:K:668:VAL:HG13	1:K:669:PRO:HD2	1.54	0.89
1:P:316:HIS:HA	1:P:323:ILE:HD13	1.54	0.89
1:H:18:ASN:ND2	1:H:21:VAL:HG23	1.87	0.89
1:O:102:ASN:HD22	1:O:201:ASP:HB2	1.35	0.89
1:A:57:GLU:HG2	1:A:83:THR:CG2	2.03	0.89
1:B:46:ARG:HH11	1:B:46:ARG:HG3	1.37	0.89
1:A:18:ASN:ND2	1:A:21:VAL:HG23	1.87	0.89
1:D:316:HIS:HA	1:D:323:ILE:HD13	1.54	0.89
1:O:316:HIS:HA	1:O:323:ILE:HD13	1.54	0.89
1:F:316:HIS:HA	1:F:323:ILE:HD13	1.55	0.89
1:H:57:GLU:HG2	1:H:83:THR:CG2	2.03	0.89
1:J:436:MET:HE3	1:J:467:ASN:HD22	1.37	0.89
1:L:668:VAL:HG13	1:L:669:PRO:HD2	1.54	0.89
1:M:57:GLU:HG2	1:M:83:THR:CG2	2.03	0.89
1:I:668:VAL:HG13	1:I:669:PRO:HD2	1.54	0.89
1:D:18:ASN:ND2	1:D:21:VAL:HG23	1.87	0.89
1:P:57:GLU:HG2	1:P:83:THR:CG2	2.03	0.89
1:B:18:ASN:ND2	1:B:21:VAL:HG23	1.87	0.89
1:P:18:ASN:ND2	1:P:21:VAL:HG23	1.87	0.89
1:I:57:GLU:HG2	1:I:83:THR:CG2	2.03	0.89
1:G:316:HIS:HA	1:G:323:ILE:HD13	1.55	0.89
1:J:57:GLU:HG2	1:J:83:THR:CG2	2.03	0.89
1:N:316:HIS:HA	1:N:323:ILE:HD13	1.55	0.89
1:E:46:ARG:HG3	1:E:46:ARG:HH11	1.37	0.89
1:K:57:GLU:HG2	1:K:83:THR:CG2	2.03	0.88
1:E:57:GLU:HG2	1:E:83:THR:CG2	2.03	0.88
1:K:316:HIS:HA	1:K:323:ILE:HD13	1.55	0.88
1:B:316:HIS:HA	1:B:323:ILE:HD13	1.55	0.88
1:D:46:ARG:HG3	1:D:46:ARG:HH11	1.37	0.88
1:P:668:VAL:HG13	1:P:669:PRO:HD2	1.54	0.88
1:I:18:ASN:ND2	1:I:21:VAL:HG23	1.87	0.88
1:F:57:GLU:HG2	1:F:83:THR:CG2	2.03	0.88
1:C:668:VAL:HG13	1:C:669:PRO:HD2	1.54	0.88
1:H:316:HIS:HA	1:H:323:ILE:HD13	1.55	0.88
1:L:46:ARG:HG3	1:L:46:ARG:HH11	1.37	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:46:ARG:HG3	1:G:46:ARG:HH11	1.37	0.88
1:G:57:GLU:HG2	1:G:83:THR:CG2	2.03	0.88
1:C:57:GLU:HG2	1:C:83:THR:CG2	2.03	0.88
1:D:668:VAL:HG13	1:D:669:PRO:HD2	1.54	0.88
1:P:102:ASN:HD22	1:P:201:ASP:HB2	1.35	0.88
1:I:46:ARG:HH11	1:I:46:ARG:HG3	1.37	0.88
1:F:434:PRO:HB3	1:G:434:PRO:HB3	1.53	0.88
1:M:316:HIS:HA	1:M:323:ILE:HD13	1.54	0.88
1:N:57:GLU:HG2	1:N:83:THR:CG2	2.03	0.88
1:A:427:THR:HA	1:A:436:MET:HE1	1.51	0.88
1:E:102:ASN:HD22	1:E:201:ASP:HB2	1.35	0.88
1:N:102:ASN:HD22	1:N:201:ASP:HB2	1.35	0.88
1:H:668:VAL:HG13	1:H:669:PRO:HD2	1.54	0.88
1:L:57:GLU:HG2	1:L:83:THR:CG2	2.03	0.88
1:A:668:VAL:HG13	1:A:669:PRO:HD2	1.54	0.88
1:O:46:ARG:HG3	1:O:46:ARG:HH11	1.36	0.88
1:P:46:ARG:HG3	1:P:46:ARG:HH11	1.37	0.88
1:B:360:HIS:CE1	1:B:362:LEU:HB2	2.10	0.87
1:B:57:GLU:HG2	1:B:83:THR:CG2	2.03	0.87
1:A:316:HIS:HA	1:A:323:ILE:HD13	1.55	0.87
1:N:46:ARG:HH11	1:N:46:ARG:HG3	1.37	0.87
1:C:436:MET:HE3	1:C:467:ASN:HD22	1.37	0.87
1:J:7:LEU:HD13	1:J:74:LEU:HD11	1.57	0.87
1:P:360:HIS:CE1	1:P:362:LEU:HB2	2.10	0.87
1:B:668:VAL:HG13	1:B:669:PRO:HD2	1.54	0.87
1:H:360:HIS:CE1	1:H:362:LEU:HB2	2.10	0.87
1:O:7:LEU:HD13	1:O:74:LEU:HD11	1.57	0.87
1:B:437:SER:HB2	5:B:2263:HOH:O	1.72	0.87
1:G:7:LEU:HD13	1:G:74:LEU:HD11	1.57	0.87
1:O:57:GLU:HG2	1:O:83:THR:CG2	2.03	0.87
1:D:57:GLU:HG2	1:D:83:THR:CG2	2.03	0.87
1:J:856:TYR:HD2	1:J:864:MET:HE2	1.37	0.87
1:K:360:HIS:CE1	1:K:362:LEU:HB2	2.10	0.87
1:F:7:LEU:HD13	1:F:74:LEU:HD11	1.57	0.87
1:E:316:HIS:HA	1:E:323:ILE:HD13	1.55	0.87
1:N:7:LEU:HD13	1:N:74:LEU:HD11	1.57	0.87
1:I:7:LEU:HD13	1:I:74:LEU:HD11	1.57	0.87
1:B:7:LEU:HD13	1:B:74:LEU:HD11	1.57	0.87
1:L:360:HIS:CE1	1:L:362:LEU:HB2	2.10	0.87
1:N:427:THR:HA	1:N:436:MET:HE1	1.57	0.87
1:M:360:HIS:CE1	1:M:362:LEU:HB2	2.10	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:316:HIS:HA	1:C:323:ILE:HD13	1.55	0.87
1:C:7:LEU:HD13	1:C:74:LEU:HD11	1.57	0.87
1:J:316:HIS:HA	1:J:323:ILE:HD13	1.54	0.87
1:I:360:HIS:CE1	1:I:362:LEU:HB2	2.10	0.87
1:K:7:LEU:HD13	1:K:74:LEU:HD11	1.57	0.86
1:A:360:HIS:CE1	1:A:362:LEU:HB2	2.10	0.86
1:O:360:HIS:CE1	1:O:362:LEU:HB2	2.10	0.86
1:G:360:HIS:CE1	1:G:362:LEU:HB2	2.10	0.86
1:E:360:HIS:CE1	1:E:362:LEU:HB2	2.10	0.86
1:I:436:MET:HE3	1:I:467:ASN:HD22	1.40	0.86
1:J:360:HIS:CE1	1:J:362:LEU:HB2	2.10	0.86
1:D:781:ARG:HH11	1:D:781:ARG:HG3	1.41	0.86
1:D:360:HIS:CE1	1:D:362:LEU:HB2	2.10	0.86
1:N:360:HIS:CE1	1:N:362:LEU:HB2	2.10	0.86
1:L:436:MET:HE3	1:L:467:ASN:HD22	1.39	0.86
1:L:781:ARG:HG3	1:L:781:ARG:HH11	1.41	0.86
1:B:781:ARG:HG3	1:B:781:ARG:HH11	1.41	0.86
1:D:7:LEU:HD13	1:D:74:LEU:HD11	1.57	0.86
1:F:360:HIS:CE1	1:F:362:LEU:HB2	2.10	0.86
1:G:668:VAL:HG13	1:G:669:PRO:HD2	1.54	0.86
1:H:7:LEU:HD13	1:H:74:LEU:HD11	1.57	0.86
1:O:668:VAL:HG13	1:O:669:PRO:HD2	1.54	0.86
1:G:436:MET:HE3	1:G:467:ASN:HD22	1.40	0.86
1:P:7:LEU:HD13	1:P:74:LEU:HD11	1.57	0.86
1:J:781:ARG:HG3	1:J:781:ARG:HH11	1.41	0.86
1:C:360:HIS:CE1	1:C:362:LEU:HB2	2.10	0.86
1:B:436:MET:HE3	1:B:467:ASN:HD22	1.39	0.85
1:M:436:MET:HE3	1:M:467:ASN:HD22	1.41	0.85
1:K:781:ARG:HH11	1:K:781:ARG:HG3	1.41	0.85
1:E:436:MET:HE3	1:E:467:ASN:HD22	1.41	0.85
1:A:781:ARG:HG3	1:A:781:ARG:HH11	1.41	0.85
1:E:434:PRO:HB3	1:H:434:PRO:HB3	1.59	0.85
1:G:781:ARG:HG3	1:G:781:ARG:HH11	1.41	0.85
1:N:781:ARG:HH11	1:N:781:ARG:HG3	1.41	0.85
1:O:781:ARG:HG3	1:O:781:ARG:HH11	1.41	0.85
1:L:7:LEU:HD13	1:L:74:LEU:HD11	1.57	0.85
1:P:249:GLU:HG2	1:P:251:ARG:NH1	1.92	0.85
1:E:781:ARG:HG3	1:E:781:ARG:HH11	1.41	0.85
1:L:949:HIS:CD2	1:L:1020:TRP:HE1	1.95	0.85
1:N:949:HIS:CD2	1:N:1020:TRP:HE1	1.95	0.85
1:K:249:GLU:HG2	1:K:251:ARG:NH1	1.92	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:360:HIS:ND1	1:A:361:PRO:HD2	1.93	0.84
1:H:249:GLU:HG2	1:H:251:ARG:NH1	1.92	0.84
1:I:249:GLU:HG2	1:I:251:ARG:NH1	1.92	0.84
1:M:949:HIS:CD2	1:M:1020:TRP:HE1	1.95	0.84
1:K:360:HIS:ND1	1:K:361:PRO:HD2	1.92	0.84
1:C:781:ARG:HH11	1:C:781:ARG:HG3	1.41	0.84
1:L:249:GLU:HG2	1:L:251:ARG:NH1	1.92	0.84
1:I:949:HIS:CD2	1:I:1020:TRP:HE1	1.95	0.84
1:E:360:HIS:ND1	1:E:361:PRO:HD2	1.92	0.84
1:F:360:HIS:ND1	1:F:361:PRO:HD2	1.93	0.84
1:O:949:HIS:CD2	1:O:1020:TRP:HE1	1.95	0.84
1:G:360:HIS:ND1	1:G:361:PRO:HD2	1.93	0.84
1:H:360:HIS:ND1	1:H:361:PRO:HD2	1.93	0.84
1:O:436:MET:HE3	1:O:467:ASN:HD22	1.43	0.84
1:B:360:HIS:ND1	1:B:361:PRO:HD2	1.93	0.84
1:J:360:HIS:ND1	1:J:361:PRO:HD2	1.93	0.84
1:A:249:GLU:HG2	1:A:251:ARG:NH1	1.92	0.84
1:E:249:GLU:HG2	1:E:251:ARG:NH1	1.92	0.84
1:B:949:HIS:CD2	1:B:1020:TRP:HE1	1.95	0.84
1:A:7:LEU:HD13	1:A:74:LEU:HD11	1.57	0.84
1:M:249:GLU:HG2	1:M:251:ARG:NH1	1.92	0.84
1:M:360:HIS:ND1	1:M:361:PRO:HD2	1.92	0.84
1:D:894:ARG:NH2	1:D:921:PRO:HD3	1.93	0.84
1:A:419:GLY:HA2	1:D:282:ARG:NH1	1.92	0.84
1:K:894:ARG:NH2	1:K:921:PRO:HD3	1.93	0.84
1:N:360:HIS:ND1	1:N:361:PRO:HD2	1.93	0.84
1:E:7:LEU:HD13	1:E:74:LEU:HD11	1.57	0.84
1:F:949:HIS:CD2	1:F:1020:TRP:HE1	1.95	0.84
1:J:249:GLU:HG2	1:J:251:ARG:NH1	1.92	0.84
1:P:360:HIS:ND1	1:P:361:PRO:HD2	1.93	0.84
1:L:360:HIS:ND1	1:L:361:PRO:HD2	1.92	0.84
1:I:360:HIS:ND1	1:I:361:PRO:HD2	1.93	0.84
1:O:249:GLU:HG2	1:O:251:ARG:NH1	1.92	0.84
1:C:437:SER:HB2	5:C:2258:HOH:O	1.76	0.83
1:J:434:PRO:HB3	1:K:434:PRO:HB3	1.57	0.83
1:H:894:ARG:NH2	1:H:921:PRO:HD3	1.93	0.83
1:C:249:GLU:HG2	1:C:251:ARG:NH1	1.92	0.83
1:P:894:ARG:NH2	1:P:921:PRO:HD3	1.93	0.83
1:J:894:ARG:NH2	1:J:921:PRO:HD3	1.93	0.83
1:F:249:GLU:HG2	1:F:251:ARG:NH1	1.92	0.83
1:H:781:ARG:HH11	1:H:781:ARG:HG3	1.41	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:949:HIS:CD2	1:J:1020:TRP:HE1	1.95	0.83
1:B:894:ARG:NH2	1:B:921:PRO:HD3	1.93	0.83
1:F:894:ARG:NH2	1:F:921:PRO:HD3	1.93	0.83
1:M:7:LEU:HD13	1:M:74:LEU:HD11	1.57	0.83
1:F:781:ARG:HG3	1:F:781:ARG:HH11	1.41	0.83
1:E:949:HIS:CD2	1:E:1020:TRP:HE1	1.95	0.83
1:A:894:ARG:NH2	1:A:921:PRO:HD3	1.93	0.83
1:E:894:ARG:NH2	1:E:921:PRO:HD3	1.93	0.83
1:P:949:HIS:CD2	1:P:1020:TRP:HE1	1.95	0.83
1:D:949:HIS:CD2	1:D:1020:TRP:HE1	1.95	0.83
1:I:781:ARG:HH11	1:I:781:ARG:HG3	1.41	0.83
1:K:949:HIS:CD2	1:K:1020:TRP:HE1	1.95	0.83
1:M:781:ARG:HH11	1:M:781:ARG:HG3	1.41	0.83
1:C:360:HIS:ND1	1:C:361:PRO:HD2	1.93	0.83
1:L:894:ARG:NH2	1:L:921:PRO:HD3	1.93	0.83
1:M:894:ARG:NH2	1:M:921:PRO:HD3	1.93	0.83
1:D:249:GLU:HG2	1:D:251:ARG:NH1	1.92	0.83
1:G:949:HIS:CD2	1:G:1020:TRP:HE1	1.95	0.83
1:D:360:HIS:ND1	1:D:361:PRO:HD2	1.93	0.83
1:A:949:HIS:CD2	1:A:1020:TRP:HE1	1.95	0.83
1:K:436:MET:HE3	1:K:467:ASN:HD22	1.44	0.83
1:C:949:HIS:CD2	1:C:1020:TRP:HE1	1.95	0.83
1:L:777:LEU:CD1	1:L:889:ALA:HA	2.09	0.83
1:P:777:LEU:CD1	1:P:889:ALA:HA	2.09	0.83
1:N:777:LEU:CD1	1:N:889:ALA:HA	2.09	0.83
1:F:777:LEU:CD1	1:F:889:ALA:HA	2.09	0.83
1:A:746:ASP:HA	1:A:760:ARG:HG3	1.61	0.83
1:H:436:MET:HE3	1:H:467:ASN:HD22	1.41	0.83
1:O:360:HIS:ND1	1:O:361:PRO:HD2	1.93	0.83
1:L:949:HIS:HD2	1:L:1020:TRP:HE1	1.27	0.83
1:I:890:GLN:HG3	1:I:891:VAL:N	1.94	0.83
1:G:890:GLN:HG3	1:G:891:VAL:N	1.94	0.83
1:C:777:LEU:CD1	1:C:889:ALA:HA	2.09	0.82
1:D:777:LEU:CD1	1:D:889:ALA:HA	2.09	0.82
1:K:436:MET:CE	1:K:467:ASN:HD22	1.93	0.82
1:N:249:GLU:HG2	1:N:251:ARG:NH1	1.92	0.82
1:A:890:GLN:HG3	1:A:891:VAL:N	1.94	0.82
1:H:777:LEU:CD1	1:H:889:ALA:HA	2.09	0.82
1:N:894:ARG:NH2	1:N:921:PRO:HD3	1.93	0.82
1:C:894:ARG:NH2	1:C:921:PRO:HD3	1.93	0.82
1:G:240:LEU:HD12	1:G:241:GLU:N	1.95	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:746:ASP:HA	1:L:760:ARG:HG3	1.61	0.82
1:N:890:GLN:HG3	1:N:891:VAL:N	1.94	0.82
1:O:240:LEU:HD12	1:O:241:GLU:N	1.95	0.82
1:O:894:ARG:NH2	1:O:921:PRO:HD3	1.93	0.82
1:I:777:LEU:CD1	1:I:889:ALA:HA	2.09	0.82
1:G:249:GLU:HG2	1:G:251:ARG:NH1	1.92	0.82
1:L:436:MET:CE	1:L:467:ASN:HD22	1.93	0.82
1:K:63:PHE:HB3	1:K:64:PRO:HD2	1.62	0.82
1:I:894:ARG:NH2	1:I:921:PRO:HD3	1.93	0.82
1:H:949:HIS:CD2	1:H:1020:TRP:HE1	1.95	0.82
1:G:777:LEU:CD1	1:G:889:ALA:HA	2.09	0.82
1:N:240:LEU:HD12	1:N:241:GLU:N	1.95	0.82
1:P:781:ARG:HG3	1:P:781:ARG:HH11	1.41	0.82
1:A:777:LEU:CD1	1:A:889:ALA:HA	2.09	0.82
1:O:777:LEU:CD1	1:O:889:ALA:HA	2.09	0.82
1:H:746:ASP:HA	1:H:760:ARG:HG3	1.61	0.82
1:H:436:MET:CE	1:H:467:ASN:HD22	1.93	0.82
1:B:249:GLU:HG2	1:B:251:ARG:NH1	1.92	0.82
1:H:63:PHE:HB3	1:H:64:PRO:HD2	1.62	0.82
1:P:240:LEU:HD12	1:P:241:GLU:N	1.95	0.82
1:F:240:LEU:HD12	1:F:241:GLU:N	1.95	0.82
1:M:240:LEU:HD12	1:M:241:GLU:N	1.95	0.82
1:P:436:MET:CE	1:P:467:ASN:HD22	1.93	0.82
1:J:436:MET:CE	1:J:467:ASN:HD22	1.93	0.82
1:I:746:ASP:HA	1:I:760:ARG:HG3	1.61	0.82
1:C:746:ASP:HA	1:C:760:ARG:HG3	1.61	0.82
1:A:436:MET:CE	1:A:467:ASN:HD22	1.93	0.82
1:J:316:HIS:HA	1:J:323:ILE:CD1	2.10	0.82
1:G:949:HIS:HD2	1:G:1020:TRP:HE1	1.28	0.82
1:B:63:PHE:HB3	1:B:64:PRO:HD2	1.62	0.82
1:F:890:GLN:HG3	1:F:891:VAL:N	1.94	0.82
1:O:63:PHE:HB3	1:O:64:PRO:HD2	1.62	0.82
1:A:240:LEU:HD12	1:A:241:GLU:N	1.95	0.82
1:P:316:HIS:HA	1:P:323:ILE:CD1	2.10	0.82
1:H:316:HIS:HA	1:H:323:ILE:CD1	2.10	0.82
1:N:227:VAL:HG13	1:N:240:LEU:HD11	1.62	0.82
1:F:227:VAL:HG13	1:F:240:LEU:HD11	1.62	0.82
1:B:240:LEU:HD12	1:B:241:GLU:N	1.95	0.82
1:J:890:GLN:HG3	1:J:891:VAL:N	1.94	0.82
1:G:63:PHE:HB3	1:G:64:PRO:HD2	1.62	0.82
1:P:63:PHE:HB3	1:P:64:PRO:HD2	1.62	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:746:ASP:HA	1:K:760:ARG:HG3	1.61	0.81
1:P:746:ASP:HA	1:P:760:ARG:HG3	1.61	0.81
1:M:316:HIS:HA	1:M:323:ILE:CD1	2.10	0.81
1:O:949:HIS:HD2	1:O:1020:TRP:HE1	1.28	0.81
1:K:65:ALA:HB1	1:K:66:PRO:HD2	1.62	0.81
1:G:894:ARG:NH2	1:G:921:PRO:HD3	1.93	0.81
1:L:227:VAL:HG13	1:L:240:LEU:HD11	1.62	0.81
1:K:777:LEU:CD1	1:K:889:ALA:HA	2.09	0.81
1:G:746:ASP:HA	1:G:760:ARG:HG3	1.61	0.81
1:N:436:MET:CE	1:N:467:ASN:HD22	1.93	0.81
1:E:316:HIS:HA	1:E:323:ILE:CD1	2.10	0.81
1:H:240:LEU:HD12	1:H:241:GLU:N	1.95	0.81
1:I:227:VAL:HG13	1:I:240:LEU:HD11	1.62	0.81
1:I:240:LEU:HD12	1:I:241:GLU:N	1.95	0.81
1:C:255:ARG:HG2	1:C:255:ARG:HH11	1.45	0.81
1:J:240:LEU:HD12	1:J:241:GLU:N	1.95	0.81
1:E:255:ARG:HG2	1:E:255:ARG:HH11	1.45	0.81
1:D:255:ARG:HG2	1:D:255:ARG:HH11	1.45	0.81
1:L:255:ARG:HH11	1:L:255:ARG:HG2	1.45	0.81
1:M:777:LEU:CD1	1:M:889:ALA:HA	2.09	0.81
1:E:777:LEU:CD1	1:E:889:ALA:HA	2.09	0.81
1:F:436:MET:CE	1:F:467:ASN:HD22	1.93	0.81
1:O:746:ASP:HA	1:O:760:ARG:HG3	1.61	0.81
1:O:316:HIS:HA	1:O:323:ILE:CD1	2.10	0.81
1:K:316:HIS:HA	1:K:323:ILE:CD1	2.10	0.81
1:A:316:HIS:HA	1:A:323:ILE:CD1	2.10	0.81
1:L:240:LEU:HD12	1:L:241:GLU:N	1.95	0.81
1:F:65:ALA:HB1	1:F:66:PRO:HD2	1.62	0.81
1:I:65:ALA:HB1	1:I:66:PRO:HD2	1.63	0.81
1:C:63:PHE:HB3	1:C:64:PRO:HD2	1.62	0.81
1:A:63:PHE:HB3	1:A:64:PRO:HD2	1.62	0.81
1:K:240:LEU:HD12	1:K:241:GLU:N	1.95	0.81
1:J:777:LEU:CD1	1:J:889:ALA:HA	2.09	0.81
1:C:436:MET:CE	1:C:467:ASN:HD22	1.93	0.81
1:B:777:LEU:CD1	1:B:889:ALA:HA	2.09	0.81
1:M:436:MET:CE	1:M:467:ASN:HD22	1.93	0.81
1:G:316:HIS:HA	1:G:323:ILE:CD1	2.10	0.81
1:B:227:VAL:HG13	1:B:240:LEU:HD11	1.62	0.81
1:H:890:GLN:HG3	1:H:891:VAL:N	1.94	0.81
1:D:227:VAL:HG13	1:D:240:LEU:HD11	1.62	0.81
1:C:65:ALA:HB1	1:C:66:PRO:HD2	1.63	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:65:ALA:HB1	1:N:66:PRO:HD2	1.62	0.81
1:F:128:ASN:ND2	1:F:180:GLY:HA2	1.96	0.81
1:P:128:ASN:ND2	1:P:180:GLY:HA2	1.96	0.81
1:C:240:LEU:HD12	1:C:241:GLU:N	1.95	0.81
1:A:128:ASN:ND2	1:A:180:GLY:HA2	1.96	0.81
1:L:65:ALA:HB1	1:L:66:PRO:HD2	1.62	0.81
1:G:65:ALA:HB1	1:G:66:PRO:HD2	1.62	0.81
1:L:890:GLN:HG3	1:L:891:VAL:N	1.94	0.81
1:M:255:ARG:HG2	1:M:255:ARG:HH11	1.45	0.81
1:D:436:MET:CE	1:D:467:ASN:HD22	1.93	0.81
1:O:436:MET:CE	1:O:467:ASN:HD22	1.93	0.81
1:E:436:MET:CE	1:E:467:ASN:HD22	1.93	0.81
1:D:240:LEU:HD12	1:D:241:GLU:N	1.95	0.81
1:M:128:ASN:ND2	1:M:180:GLY:HA2	1.96	0.81
1:H:128:ASN:ND2	1:H:180:GLY:HA2	1.96	0.81
1:O:65:ALA:HB1	1:O:66:PRO:HD2	1.62	0.81
1:I:63:PHE:HB3	1:I:64:PRO:HD2	1.62	0.81
1:O:128:ASN:ND2	1:O:180:GLY:HA2	1.96	0.81
1:G:436:MET:CE	1:G:467:ASN:HD22	1.93	0.81
1:D:63:PHE:HB3	1:D:64:PRO:HD2	1.62	0.81
1:B:890:GLN:HG3	1:B:891:VAL:N	1.94	0.81
1:F:856:TYR:HD2	1:F:864:MET:HE2	1.45	0.81
1:N:128:ASN:ND2	1:N:180:GLY:HA2	1.96	0.81
1:B:746:ASP:HA	1:B:760:ARG:HG3	1.61	0.81
1:A:436:MET:HE3	1:A:467:ASN:HD22	1.44	0.81
1:G:128:ASN:ND2	1:G:180:GLY:HA2	1.96	0.81
1:L:316:HIS:HA	1:L:323:ILE:CD1	2.10	0.81
1:D:316:HIS:HA	1:D:323:ILE:CD1	2.10	0.81
1:N:316:HIS:HA	1:N:323:ILE:CD1	2.10	0.81
1:C:227:VAL:HG13	1:C:240:LEU:HD11	1.62	0.81
1:L:822:LEU:HD12	1:L:824:GLN:H	1.46	0.81
1:D:890:GLN:HG3	1:D:891:VAL:N	1.94	0.81
1:J:128:ASN:ND2	1:J:180:GLY:HA2	1.96	0.81
1:F:255:ARG:HH11	1:F:255:ARG:HG2	1.45	0.81
1:K:822:LEU:HD12	1:K:824:GLN:H	1.46	0.81
1:B:436:MET:CE	1:B:467:ASN:HD22	1.93	0.81
1:O:890:GLN:HG3	1:O:891:VAL:N	1.94	0.81
1:C:890:GLN:HG3	1:C:891:VAL:N	1.94	0.81
1:D:746:ASP:HA	1:D:760:ARG:HG3	1.61	0.80
1:M:746:ASP:HA	1:M:760:ARG:HG3	1.61	0.80
1:N:255:ARG:HG2	1:N:255:ARG:HH11	1.45	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:65:ALA:HB1	1:M:66:PRO:HD2	1.62	0.80
1:J:822:LEU:HD12	1:J:824:GLN:H	1.46	0.80
1:I:436:MET:CE	1:I:467:ASN:HD22	1.93	0.80
1:I:316:HIS:HA	1:I:323:ILE:CD1	2.10	0.80
1:B:316:HIS:HA	1:B:323:ILE:CD1	2.10	0.80
1:C:949:HIS:HD2	1:C:1020:TRP:HE1	1.27	0.80
1:I:255:ARG:HH11	1:I:255:ARG:HG2	1.45	0.80
1:M:890:GLN:HG3	1:M:891:VAL:N	1.94	0.80
1:F:746:ASP:HA	1:F:760:ARG:HG3	1.61	0.80
1:P:227:VAL:HG13	1:P:240:LEU:HD11	1.62	0.80
1:E:63:PHE:HB3	1:E:64:PRO:HD2	1.62	0.80
1:E:746:ASP:HA	1:E:760:ARG:HG3	1.61	0.80
1:C:316:HIS:HA	1:C:323:ILE:CD1	2.10	0.80
1:G:227:VAL:HG13	1:G:240:LEU:HD11	1.62	0.80
1:L:128:ASN:ND2	1:L:180:GLY:HA2	1.96	0.80
1:B:65:ALA:HB1	1:B:66:PRO:HD2	1.63	0.80
1:E:65:ALA:HB1	1:E:66:PRO:HD2	1.62	0.80
1:N:63:PHE:HB3	1:N:64:PRO:HD2	1.62	0.80
1:N:746:ASP:HA	1:N:760:ARG:HG3	1.61	0.80
1:A:227:VAL:HG13	1:A:240:LEU:HD11	1.62	0.80
1:F:63:PHE:HB3	1:F:64:PRO:HD2	1.62	0.80
1:D:7:LEU:CD1	1:D:74:LEU:HD11	2.12	0.80
1:E:7:LEU:CD1	1:E:74:LEU:HD11	2.12	0.80
1:H:255:ARG:HG2	1:H:255:ARG:HH11	1.45	0.80
1:B:255:ARG:HH11	1:B:255:ARG:HG2	1.45	0.80
1:E:240:LEU:HD12	1:E:241:GLU:N	1.95	0.80
1:D:822:LEU:HD12	1:D:824:GLN:H	1.46	0.80
1:O:227:VAL:HG13	1:O:240:LEU:HD11	1.62	0.80
1:H:949:HIS:HD2	1:H:1020:TRP:HE1	1.27	0.80
1:K:255:ARG:HH11	1:K:255:ARG:HG2	1.45	0.80
1:G:822:LEU:HD12	1:G:824:GLN:H	1.46	0.80
1:P:890:GLN:HG3	1:P:891:VAL:N	1.94	0.80
1:I:128:ASN:ND2	1:I:180:GLY:HA2	1.96	0.80
1:O:822:LEU:HD12	1:O:824:GLN:H	1.46	0.80
1:P:822:LEU:HD12	1:P:824:GLN:H	1.46	0.80
1:J:7:LEU:CD1	1:J:74:LEU:HD11	2.12	0.80
1:K:7:LEU:CD1	1:K:74:LEU:HD11	2.12	0.80
1:A:949:HIS:HD2	1:A:1020:TRP:HE1	1.27	0.80
1:H:227:VAL:HG13	1:H:240:LEU:HD11	1.62	0.80
1:K:227:VAL:HG13	1:K:240:LEU:HD11	1.62	0.80
1:C:114:VAL:HG13	1:C:191:TRP:HB2	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:128:ASN:ND2	1:B:180:GLY:HA2	1.96	0.80
1:H:822:LEU:HD12	1:H:824:GLN:H	1.46	0.80
1:K:890:GLN:HG3	1:K:891:VAL:N	1.94	0.80
1:M:7:LEU:CD1	1:M:74:LEU:HD11	2.12	0.80
1:C:822:LEU:HD12	1:C:824:GLN:H	1.46	0.80
1:H:65:ALA:HB1	1:H:66:PRO:HD2	1.62	0.80
1:K:128:ASN:ND2	1:K:180:GLY:HA2	1.96	0.80
1:L:63:PHE:HB3	1:L:64:PRO:HD2	1.62	0.80
1:P:255:ARG:HH11	1:P:255:ARG:HG2	1.45	0.80
1:A:7:LEU:CD1	1:A:74:LEU:HD11	2.12	0.80
1:P:65:ALA:HB1	1:P:66:PRO:HD2	1.62	0.80
1:J:949:HIS:HD2	1:J:1020:TRP:HE1	1.27	0.79
1:A:255:ARG:HG2	1:A:255:ARG:HH11	1.45	0.79
1:O:255:ARG:HG2	1:O:255:ARG:HH11	1.45	0.79
1:M:63:PHE:HB3	1:M:64:PRO:HD2	1.62	0.79
1:E:166:ARG:HD3	5:E:2120:HOH:O	1.83	0.79
1:I:114:VAL:HG13	1:I:191:TRP:HB2	1.64	0.79
1:F:7:LEU:CD1	1:F:74:LEU:HD11	2.12	0.79
1:B:949:HIS:HD2	1:B:1020:TRP:HE1	1.28	0.79
1:M:227:VAL:HG13	1:M:240:LEU:HD11	1.62	0.79
1:G:255:ARG:HG2	1:G:255:ARG:HH11	1.45	0.79
1:D:128:ASN:ND2	1:D:180:GLY:HA2	1.96	0.79
1:E:128:ASN:ND2	1:E:180:GLY:HA2	1.96	0.79
1:N:114:VAL:HG13	1:N:191:TRP:HB2	1.64	0.79
1:L:166:ARG:HD3	5:L:2120:HOH:O	1.83	0.79
1:N:7:LEU:CD1	1:N:74:LEU:HD11	2.12	0.79
1:D:949:HIS:HD2	1:D:1020:TRP:HE1	1.27	0.79
1:J:114:VAL:HG13	1:J:191:TRP:HB2	1.64	0.79
1:J:65:ALA:HB1	1:J:66:PRO:HD2	1.62	0.79
1:C:7:LEU:CD1	1:C:74:LEU:HD11	2.12	0.79
1:I:949:HIS:HD2	1:I:1020:TRP:HE1	1.27	0.79
1:J:227:VAL:HG13	1:J:240:LEU:HD11	1.62	0.79
1:P:114:VAL:HG13	1:P:191:TRP:HB2	1.64	0.79
1:N:166:ARG:HD3	5:N:2123:HOH:O	1.83	0.79
1:A:65:ALA:HB1	1:A:66:PRO:HD2	1.63	0.79
1:O:166:ARG:HD3	5:O:2120:HOH:O	1.83	0.79
1:F:114:VAL:HG13	1:F:191:TRP:HB2	1.64	0.79
1:E:890:GLN:HG3	1:E:891:VAL:N	1.94	0.79
1:D:65:ALA:HB1	1:D:66:PRO:HD2	1.62	0.79
1:C:128:ASN:ND2	1:C:180:GLY:HA2	1.96	0.79
1:I:7:LEU:CD1	1:I:74:LEU:HD11	2.12	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:822:LEU:HD12	1:M:824:GLN:H	1.46	0.79
1:K:166:ARG:HD3	5:K:2120:HOH:O	1.83	0.79
1:J:255:ARG:HH11	1:J:255:ARG:HG2	1.45	0.79
1:I:655:MET:HE2	1:I:656:VAL:N	1.98	0.79
1:F:316:HIS:HA	1:F:323:ILE:CD1	2.10	0.79
1:A:114:VAL:HG13	1:A:191:TRP:HB2	1.64	0.79
1:C:166:ARG:HD3	5:C:2120:HOH:O	1.83	0.79
1:L:682:LEU:HD22	1:L:683:PRO:HD2	1.65	0.79
1:H:655:MET:HE2	1:H:656:VAL:N	1.98	0.79
1:J:746:ASP:HA	1:J:760:ARG:HG3	1.61	0.79
1:G:102:ASN:ND2	1:G:201:ASP:HB2	1.98	0.79
1:P:102:ASN:ND2	1:P:201:ASP:HB2	1.98	0.79
1:D:822:LEU:HD12	1:D:823:LEU:N	1.98	0.79
1:O:655:MET:HE2	1:O:656:VAL:N	1.98	0.79
1:B:822:LEU:HD12	1:B:824:GLN:H	1.46	0.79
1:P:655:MET:HE2	1:P:656:VAL:N	1.98	0.79
1:O:7:LEU:CD1	1:O:74:LEU:HD11	2.12	0.79
1:G:7:LEU:CD1	1:G:74:LEU:HD11	2.12	0.79
1:P:7:LEU:CD1	1:P:74:LEU:HD11	2.12	0.79
1:L:7:LEU:CD1	1:L:74:LEU:HD11	2.12	0.79
1:E:227:VAL:HG13	1:E:240:LEU:HD11	1.62	0.79
1:L:114:VAL:HG13	1:L:191:TRP:HB2	1.64	0.79
1:B:682:LEU:HD22	1:B:683:PRO:HD2	1.65	0.79
1:A:655:MET:HE2	1:A:656:VAL:N	1.98	0.79
1:F:166:ARG:HD3	5:F:2120:HOH:O	1.83	0.79
1:E:822:LEU:HD12	1:E:824:GLN:H	1.46	0.79
1:J:63:PHE:HB3	1:J:64:PRO:HD2	1.62	0.79
1:D:166:ARG:HD3	5:D:2126:HOH:O	1.83	0.79
1:H:7:LEU:CD1	1:H:74:LEU:HD11	2.12	0.79
1:E:822:LEU:HD12	1:E:823:LEU:N	1.98	0.79
1:F:682:LEU:HD22	1:F:683:PRO:HD2	1.65	0.79
1:J:655:MET:HE2	1:J:656:VAL:N	1.98	0.79
1:D:655:MET:HE2	1:D:656:VAL:N	1.98	0.79
1:I:682:LEU:HD22	1:I:683:PRO:HD2	1.65	0.79
1:F:651:LEU:HD12	1:F:652:LEU:H	1.48	0.79
1:K:655:MET:HE2	1:K:656:VAL:N	1.99	0.79
1:P:682:LEU:HD22	1:P:683:PRO:HD2	1.65	0.79
1:F:655:MET:HE2	1:F:656:VAL:N	1.98	0.79
1:O:682:LEU:HD22	1:O:683:PRO:HD2	1.65	0.79
1:J:102:ASN:ND2	1:J:201:ASP:HB2	1.98	0.78
1:J:651:LEU:HD12	1:J:652:LEU:H	1.48	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:102:ASN:ND2	1:N:201:ASP:HB2	1.98	0.78
1:E:949:HIS:HD2	1:E:1020:TRP:HE1	1.27	0.78
1:N:655:MET:HE2	1:N:656:VAL:N	1.98	0.78
1:H:114:VAL:HG13	1:H:191:TRP:HB2	1.64	0.78
1:N:682:LEU:HD22	1:N:683:PRO:HD2	1.65	0.78
1:B:102:ASN:ND2	1:B:201:ASP:HB2	1.98	0.78
1:C:651:LEU:HD12	1:C:652:LEU:H	1.48	0.78
1:H:651:LEU:HD12	1:H:652:LEU:H	1.48	0.78
1:C:822:LEU:HD12	1:C:823:LEU:N	1.98	0.78
1:G:682:LEU:HD22	1:G:683:PRO:HD2	1.65	0.78
1:A:822:LEU:HD12	1:A:823:LEU:N	1.98	0.78
1:A:822:LEU:HD12	1:A:824:GLN:H	1.46	0.78
1:B:210:ARG:NH1	1:B:395:HIS:N	2.32	0.78
1:F:437:SER:HB2	5:F:2258:HOH:O	1.82	0.78
1:A:418:HIS:O	1:D:282:ARG:HD3	1.82	0.78
1:G:822:LEU:HD12	1:G:823:LEU:N	1.98	0.78
1:O:822:LEU:HD12	1:O:823:LEU:N	1.98	0.78
1:A:499:ILE:HB	1:A:533:LEU:HB2	1.66	0.78
1:M:655:MET:HE2	1:M:656:VAL:N	1.98	0.78
1:B:114:VAL:HG13	1:B:191:TRP:HB2	1.64	0.78
1:G:166:ARG:HD3	5:G:2120:HOH:O	1.83	0.78
1:M:682:LEU:HD22	1:M:683:PRO:HD2	1.65	0.78
1:K:114:VAL:HG13	1:K:191:TRP:HB2	1.64	0.78
1:K:43:ARG:NH1	1:K:43:ARG:HG2	1.94	0.78
1:K:651:LEU:HD12	1:K:652:LEU:H	1.48	0.78
1:K:822:LEU:HD12	1:K:823:LEU:N	1.98	0.78
1:H:822:LEU:HD12	1:H:823:LEU:N	1.98	0.78
1:E:655:MET:HE2	1:E:656:VAL:N	1.98	0.78
1:F:822:LEU:HD12	1:F:824:GLN:H	1.46	0.78
1:J:210:ARG:NH1	1:J:395:HIS:N	2.32	0.78
1:C:499:ILE:HB	1:C:533:LEU:HB2	1.66	0.78
1:N:822:LEU:HD12	1:N:823:LEU:N	1.98	0.78
1:J:166:ARG:HD3	5:J:2120:HOH:O	1.83	0.78
1:B:7:LEU:CD1	1:B:74:LEU:HD11	2.12	0.78
1:O:651:LEU:HD12	1:O:652:LEU:H	1.48	0.78
1:K:949:HIS:HD2	1:K:1020:TRP:HE1	1.27	0.78
1:B:166:ARG:HD3	5:B:2123:HOH:O	1.83	0.78
1:F:210:ARG:NH1	1:F:395:HIS:N	2.32	0.78
1:G:655:MET:HE2	1:G:656:VAL:N	1.98	0.78
1:A:166:ARG:HD3	5:A:2120:HOH:O	1.83	0.78
1:B:655:MET:HE2	1:B:656:VAL:N	1.98	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:651:LEU:HD12	1:G:652:LEU:H	1.48	0.78
1:M:949:HIS:HD2	1:M:1020:TRP:HE1	1.28	0.78
1:F:822:LEU:HD12	1:F:823:LEU:N	1.98	0.78
1:N:822:LEU:HD12	1:N:824:GLN:H	1.46	0.78
1:P:210:ARG:NH1	1:P:395:HIS:N	2.32	0.78
1:D:682:LEU:HD22	1:D:683:PRO:HD2	1.65	0.78
1:H:499:ILE:HB	1:H:533:LEU:HB2	1.66	0.78
1:M:114:VAL:HG13	1:M:191:TRP:HB2	1.64	0.78
1:N:210:ARG:NH1	1:N:395:HIS:N	2.32	0.78
1:M:499:ILE:HB	1:M:533:LEU:HB2	1.66	0.78
1:I:210:ARG:NH1	1:I:395:HIS:N	2.32	0.78
1:L:102:ASN:ND2	1:L:201:ASP:HB2	1.98	0.78
1:M:651:LEU:HD12	1:M:652:LEU:H	1.49	0.78
1:M:822:LEU:HD12	1:M:823:LEU:N	1.98	0.78
1:B:822:LEU:HD12	1:B:823:LEU:N	1.98	0.78
1:H:210:ARG:NH1	1:H:395:HIS:N	2.32	0.78
1:P:499:ILE:HB	1:P:533:LEU:HB2	1.66	0.78
1:K:682:LEU:HD22	1:K:683:PRO:HD2	1.65	0.78
1:I:166:ARG:HD3	5:I:2120:HOH:O	1.83	0.78
1:M:434:PRO:HB3	1:P:434:PRO:HB3	1.65	0.78
1:E:499:ILE:HB	1:E:533:LEU:HB2	1.66	0.78
1:P:166:ARG:HD3	5:P:2125:HOH:O	1.83	0.78
1:A:210:ARG:NH1	1:A:395:HIS:N	2.32	0.78
1:I:822:LEU:HD12	1:I:823:LEU:N	1.98	0.78
1:I:822:LEU:HD12	1:I:824:GLN:H	1.46	0.78
1:O:210:ARG:NH1	1:O:395:HIS:N	2.32	0.78
1:G:210:ARG:NH1	1:G:395:HIS:N	2.32	0.78
1:C:210:ARG:NH1	1:C:395:HIS:N	2.32	0.78
1:M:425:ARG:HH22	1:P:287:ASP:CG	1.87	0.78
1:E:651:LEU:HD12	1:E:652:LEU:H	1.48	0.78
1:J:822:LEU:HD12	1:J:823:LEU:N	1.98	0.78
1:J:682:LEU:HD22	1:J:683:PRO:HD2	1.65	0.78
1:D:499:ILE:HB	1:D:533:LEU:HB2	1.66	0.78
1:H:53:SER:C	1:H:54:LEU:HD23	2.04	0.78
1:H:682:LEU:HD22	1:H:683:PRO:HD2	1.65	0.78
1:L:655:MET:HE2	1:L:656:VAL:N	1.98	0.78
1:L:499:ILE:HB	1:L:533:LEU:HB2	1.66	0.78
1:D:53:SER:C	1:D:54:LEU:HD23	2.04	0.78
1:I:102:ASN:ND2	1:I:201:ASP:HB2	1.98	0.78
1:O:102:ASN:ND2	1:O:201:ASP:HB2	1.98	0.78
1:O:114:VAL:HG13	1:O:191:TRP:HB2	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:949:HIS:HD2	1:N:1020:TRP:HE1	1.27	0.77
1:L:822:LEU:HD12	1:L:823:LEU:N	1.98	0.77
1:E:53:SER:C	1:E:54:LEU:HD23	2.05	0.77
1:K:499:ILE:HB	1:K:533:LEU:HB2	1.66	0.77
1:E:682:LEU:HD22	1:E:683:PRO:HD2	1.65	0.77
1:M:53:SER:C	1:M:54:LEU:HD23	2.04	0.77
1:J:499:ILE:HB	1:J:533:LEU:HB2	1.66	0.77
1:H:166:ARG:HD3	5:H:2120:HOH:O	1.83	0.77
1:L:43:ARG:HG2	1:L:43:ARG:NH1	1.94	0.77
1:H:102:ASN:ND2	1:H:201:ASP:HB2	1.98	0.77
1:D:651:LEU:HD12	1:D:652:LEU:H	1.48	0.77
1:A:651:LEU:HD12	1:A:652:LEU:H	1.48	0.77
1:P:360:HIS:CG	1:P:361:PRO:HD2	2.20	0.77
1:B:651:LEU:HD12	1:B:652:LEU:H	1.48	0.77
1:K:360:HIS:CG	1:K:361:PRO:HD2	2.20	0.77
1:E:114:VAL:HG13	1:E:191:TRP:HB2	1.64	0.77
1:G:114:VAL:HG13	1:G:191:TRP:HB2	1.64	0.77
1:M:166:ARG:HD3	5:M:2120:HOH:O	1.82	0.77
1:P:53:SER:C	1:P:54:LEU:HD23	2.04	0.77
1:J:53:SER:C	1:J:54:LEU:HD23	2.04	0.77
1:D:360:HIS:CG	1:D:361:PRO:HD2	2.20	0.77
1:D:114:VAL:HG13	1:D:191:TRP:HB2	1.64	0.77
1:D:210:ARG:NH1	1:D:395:HIS:N	2.32	0.77
1:F:53:SER:C	1:F:54:LEU:HD23	2.04	0.77
1:B:53:SER:C	1:B:54:LEU:HD23	2.04	0.77
1:C:102:ASN:ND2	1:C:201:ASP:HB2	1.98	0.77
1:N:651:LEU:HD12	1:N:652:LEU:H	1.48	0.77
1:E:102:ASN:ND2	1:E:201:ASP:HB2	1.98	0.77
1:P:822:LEU:HD12	1:P:823:LEU:N	1.98	0.77
1:F:189:LEU:N	1:F:189:LEU:HD23	2.00	0.77
1:N:189:LEU:HD23	1:N:189:LEU:N	2.00	0.77
1:F:949:HIS:HD2	1:F:1020:TRP:HE1	1.27	0.77
1:L:189:LEU:HD23	1:L:189:LEU:N	2.00	0.77
1:K:53:SER:C	1:K:54:LEU:HD23	2.04	0.77
1:B:189:LEU:N	1:B:189:LEU:HD23	2.00	0.77
1:A:53:SER:C	1:A:54:LEU:HD23	2.04	0.77
1:L:210:ARG:NH1	1:L:395:HIS:N	2.32	0.77
1:G:499:ILE:HB	1:G:533:LEU:HB2	1.66	0.77
1:D:189:LEU:HD23	1:D:189:LEU:N	2.00	0.77
1:C:53:SER:C	1:C:54:LEU:HD23	2.05	0.77
1:O:499:ILE:HB	1:O:533:LEU:HB2	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:856:TYR:HD2	1:C:864:MET:HE2	1.50	0.77
1:N:436:MET:HE3	1:N:467:ASN:HD22	1.48	0.77
1:C:395:HIS:CG	1:C:396:PRO:HD2	2.20	0.77
1:M:210:ARG:NH1	1:M:395:HIS:N	2.32	0.77
1:I:53:SER:C	1:I:54:LEU:HD23	2.04	0.77
1:M:856:TYR:HD2	1:M:864:MET:HE2	1.48	0.77
1:E:395:HIS:CG	1:E:396:PRO:HD2	2.20	0.77
1:D:102:ASN:ND2	1:D:201:ASP:HB2	1.98	0.77
1:P:651:LEU:HD12	1:P:652:LEU:H	1.48	0.77
1:I:360:HIS:CG	1:I:361:PRO:HD2	2.20	0.77
1:F:360:HIS:CG	1:F:361:PRO:HD2	2.20	0.77
1:P:949:HIS:HD2	1:P:1020:TRP:HE1	1.28	0.77
1:B:395:HIS:CG	1:B:396:PRO:HD2	2.20	0.77
1:N:395:HIS:CG	1:N:396:PRO:HD2	2.20	0.77
1:G:189:LEU:HD23	1:G:189:LEU:N	2.00	0.77
1:L:53:SER:C	1:L:54:LEU:HD23	2.04	0.77
1:O:260:LEU:O	1:O:267:VAL:HG23	1.85	0.77
1:N:53:SER:C	1:N:54:LEU:HD23	2.04	0.77
1:C:189:LEU:HD23	1:C:189:LEU:N	2.00	0.77
1:K:260:LEU:O	1:K:267:VAL:HG23	1.85	0.77
1:K:102:ASN:ND2	1:K:201:ASP:HB2	1.98	0.77
1:J:360:HIS:CG	1:J:361:PRO:HD2	2.20	0.77
1:H:395:HIS:CG	1:H:396:PRO:HD2	2.20	0.77
1:L:395:HIS:CG	1:L:396:PRO:HD2	2.20	0.77
1:C:682:LEU:HD22	1:C:683:PRO:HD2	1.65	0.77
1:P:189:LEU:HD23	1:P:189:LEU:N	2.00	0.77
1:J:189:LEU:N	1:J:189:LEU:HD23	2.00	0.77
1:C:655:MET:HE2	1:C:656:VAL:N	1.98	0.77
1:I:260:LEU:O	1:I:267:VAL:HG23	1.85	0.77
1:F:102:ASN:ND2	1:F:201:ASP:HB2	1.98	0.77
1:A:102:ASN:ND2	1:A:201:ASP:HB2	1.98	0.77
1:B:360:HIS:CG	1:B:361:PRO:HD2	2.20	0.77
1:N:360:HIS:CG	1:N:361:PRO:HD2	2.20	0.77
1:E:210:ARG:NH1	1:E:395:HIS:N	2.32	0.77
1:P:260:LEU:O	1:P:267:VAL:HG23	1.85	0.77
1:L:360:HIS:CG	1:L:361:PRO:HD2	2.20	0.77
1:B:654:TRP:CE2	1:B:666:GLY:HA3	2.20	0.77
1:I:395:HIS:CG	1:I:396:PRO:HD2	2.20	0.77
1:L:654:TRP:CE2	1:L:666:GLY:HA3	2.20	0.77
1:K:210:ARG:NH1	1:K:395:HIS:N	2.32	0.77
1:K:395:HIS:CG	1:K:396:PRO:HD2	2.20	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:499:ILE:HB	1:N:533:LEU:HB2	1.66	0.77
1:B:260:LEU:O	1:B:267:VAL:HG23	1.85	0.77
1:C:360:HIS:CG	1:C:361:PRO:HD2	2.20	0.76
1:O:395:HIS:CG	1:O:396:PRO:HD2	2.20	0.76
1:C:654:TRP:CE2	1:C:666:GLY:HA3	2.20	0.76
1:C:260:LEU:O	1:C:267:VAL:HG23	1.85	0.76
1:G:53:SER:C	1:G:54:LEU:HD23	2.04	0.76
1:O:53:SER:C	1:O:54:LEU:HD23	2.04	0.76
1:M:423:MET:HB2	1:P:282:ARG:HG3	1.65	0.76
1:C:251:ARG:HB3	1:C:253:TYR:CE2	2.21	0.76
1:K:654:TRP:CE2	1:K:666:GLY:HA3	2.20	0.76
1:G:395:HIS:CG	1:G:396:PRO:HD2	2.20	0.76
1:M:189:LEU:N	1:M:189:LEU:HD23	2.00	0.76
1:H:189:LEU:N	1:H:189:LEU:HD23	2.00	0.76
1:A:682:LEU:HD22	1:A:683:PRO:HD2	1.65	0.76
1:J:260:LEU:O	1:J:267:VAL:HG23	1.85	0.76
1:D:23:GLN:O	1:D:24:LEU:HD13	1.86	0.76
1:M:102:ASN:ND2	1:M:201:ASP:HB2	1.98	0.76
1:D:395:HIS:CG	1:D:396:PRO:HD2	2.20	0.76
1:C:23:GLN:O	1:C:24:LEU:HD13	1.86	0.76
1:L:23:GLN:O	1:L:24:LEU:HD13	1.86	0.76
1:E:360:HIS:CG	1:E:361:PRO:HD2	2.20	0.76
1:D:251:ARG:HB3	1:D:253:TYR:CE2	2.21	0.76
1:B:251:ARG:HB3	1:B:253:TYR:CE2	2.21	0.76
1:A:654:TRP:CE2	1:A:666:GLY:HA3	2.20	0.76
1:B:499:ILE:HB	1:B:533:LEU:HB2	1.66	0.76
1:F:499:ILE:HB	1:F:533:LEU:HB2	1.66	0.76
1:L:651:LEU:HD12	1:L:652:LEU:H	1.48	0.76
1:A:360:HIS:CG	1:A:361:PRO:HD2	2.20	0.76
1:N:251:ARG:HB3	1:N:253:TYR:CE2	2.21	0.76
1:F:654:TRP:CE2	1:F:666:GLY:HA3	2.20	0.76
1:E:654:TRP:CE2	1:E:666:GLY:HA3	2.21	0.76
1:F:395:HIS:CG	1:F:396:PRO:HD2	2.20	0.76
1:B:23:GLN:O	1:B:24:LEU:HD13	1.86	0.76
1:I:189:LEU:HD23	1:I:189:LEU:N	2.00	0.76
1:I:651:LEU:HD12	1:I:652:LEU:H	1.48	0.76
1:G:360:HIS:CG	1:G:361:PRO:HD2	2.20	0.76
1:O:654:TRP:CE2	1:O:666:GLY:HA3	2.21	0.76
1:J:654:TRP:CE2	1:J:666:GLY:HA3	2.20	0.76
1:M:654:TRP:CE2	1:M:666:GLY:HA3	2.20	0.76
1:A:395:HIS:CG	1:A:396:PRO:HD2	2.20	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:260:LEU:O	1:L:267:VAL:HG23	1.85	0.76
1:G:23:GLN:O	1:G:24:LEU:HD13	1.86	0.76
1:J:23:GLN:O	1:J:24:LEU:HD13	1.86	0.76
1:E:23:GLN:O	1:E:24:LEU:HD13	1.86	0.76
1:E:251:ARG:HB3	1:E:253:TYR:CE2	2.21	0.76
1:F:251:ARG:HB3	1:F:253:TYR:CE2	2.21	0.76
1:J:395:HIS:CG	1:J:396:PRO:HD2	2.20	0.76
1:K:189:LEU:HD23	1:K:189:LEU:N	2.00	0.76
1:A:251:ARG:HB3	1:A:253:TYR:CE2	2.21	0.76
1:I:654:TRP:CE2	1:I:666:GLY:HA3	2.20	0.76
1:M:360:HIS:CG	1:M:361:PRO:HD2	2.20	0.76
1:G:230:ARG:HG3	1:G:230:ARG:HH11	1.51	0.76
1:O:230:ARG:HH11	1:O:230:ARG:HG3	1.51	0.76
1:P:395:HIS:CG	1:P:396:PRO:HD2	2.20	0.76
1:I:499:ILE:HB	1:I:533:LEU:HB2	1.66	0.76
1:D:595:THR:HG23	1:D:596:PRO:HA	1.68	0.76
1:O:189:LEU:N	1:O:189:LEU:HD23	2.00	0.76
1:P:23:GLN:O	1:P:24:LEU:HD13	1.86	0.76
1:H:260:LEU:O	1:H:267:VAL:HG23	1.85	0.76
1:I:595:THR:HG23	1:I:596:PRO:HA	1.68	0.76
1:H:360:HIS:CG	1:H:361:PRO:HD2	2.20	0.76
1:J:856:TYR:CD2	1:J:864:MET:HE2	2.20	0.76
1:O:360:HIS:CG	1:O:361:PRO:HD2	2.20	0.76
1:P:251:ARG:HB3	1:P:253:TYR:CE2	2.21	0.76
1:P:230:ARG:HH11	1:P:230:ARG:HG3	1.51	0.76
1:G:595:THR:HG23	1:G:596:PRO:HA	1.68	0.76
1:A:189:LEU:HD23	1:A:189:LEU:N	2.00	0.76
1:J:696:LEU:HD12	1:J:697:THR:N	2.01	0.76
1:K:595:THR:HG23	1:K:596:PRO:HA	1.68	0.76
1:O:595:THR:HG23	1:O:596:PRO:HA	1.68	0.76
1:M:251:ARG:HB3	1:M:253:TYR:CE2	2.21	0.75
1:L:230:ARG:HH11	1:L:230:ARG:HG3	1.51	0.75
1:N:654:TRP:CE2	1:N:666:GLY:HA3	2.21	0.75
1:O:696:LEU:HD12	1:O:697:THR:N	2.01	0.75
1:M:23:GLN:O	1:M:24:LEU:HD13	1.86	0.75
1:C:696:LEU:HD12	1:C:697:THR:N	2.01	0.75
1:J:595:THR:HG23	1:J:596:PRO:HA	1.68	0.75
1:G:696:LEU:HD12	1:G:697:THR:N	2.01	0.75
1:J:251:ARG:HB3	1:J:253:TYR:CE2	2.21	0.75
1:G:251:ARG:HB3	1:G:253:TYR:CE2	2.21	0.75
1:M:230:ARG:HG3	1:M:230:ARG:HH11	1.51	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:230:ARG:HH11	1:H:230:ARG:HG3	1.51	0.75
1:K:653[B]:HIS:CD2	1:K:667:GLU:HG3	2.22	0.75
1:M:653[B]:HIS:CD2	1:M:667:GLU:HG3	2.22	0.75
1:F:260:LEU:O	1:F:267:VAL:HG23	1.85	0.75
1:D:696:LEU:HD12	1:D:697:THR:H	1.52	0.75
1:L:595:THR:HG23	1:L:596:PRO:HA	1.68	0.75
1:L:696:LEU:HD12	1:L:697:THR:N	2.02	0.75
1:A:696:LEU:HD12	1:A:697:THR:H	1.51	0.75
1:N:260:LEU:O	1:N:267:VAL:HG23	1.85	0.75
1:P:43:ARG:NH1	1:P:43:ARG:HG2	1.94	0.75
1:P:654:TRP:CE2	1:P:666:GLY:HA3	2.20	0.75
1:N:653[B]:HIS:CD2	1:N:667:GLU:HG3	2.22	0.75
1:G:654:TRP:CE2	1:G:666:GLY:HA3	2.20	0.75
1:O:696:LEU:HD12	1:O:697:THR:H	1.51	0.75
1:G:696:LEU:HD12	1:G:697:THR:H	1.51	0.75
1:I:696:LEU:HD12	1:I:697:THR:H	1.51	0.75
1:H:23:GLN:O	1:H:24:LEU:HD13	1.86	0.75
1:M:696:LEU:HD12	1:M:697:THR:N	2.01	0.75
1:B:696:LEU:HD12	1:B:697:THR:N	2.02	0.75
1:B:696:LEU:HD12	1:B:697:THR:H	1.51	0.75
1:I:251:ARG:HB3	1:I:253:TYR:CE2	2.21	0.75
1:L:251:ARG:HB3	1:L:253:TYR:CE2	2.21	0.75
1:J:230:ARG:HG3	1:J:230:ARG:HH11	1.51	0.75
1:I:653[B]:HIS:CD2	1:I:667:GLU:HG3	2.22	0.75
1:H:654:TRP:CE2	1:H:666:GLY:HA3	2.20	0.75
1:M:395:HIS:CG	1:M:396:PRO:HD2	2.20	0.75
1:G:260:LEU:O	1:G:267:VAL:HG23	1.85	0.75
1:F:23:GLN:O	1:F:24:LEU:HD13	1.86	0.75
1:C:230:ARG:HH11	1:C:230:ARG:HG3	1.51	0.75
1:D:653[B]:HIS:CD2	1:D:667:GLU:HG3	2.22	0.75
1:B:653[B]:HIS:CD2	1:B:667:GLU:HG3	2.22	0.75
1:C:696:LEU:HD12	1:C:697:THR:H	1.52	0.75
1:A:23:GLN:O	1:A:24:LEU:HD13	1.86	0.75
1:I:434:PRO:HB3	1:L:434:PRO:HB3	1.66	0.75
1:E:189:LEU:N	1:E:189:LEU:HD23	2.00	0.75
1:C:595:THR:HG23	1:C:596:PRO:HA	1.68	0.75
1:M:260:LEU:O	1:M:267:VAL:HG23	1.85	0.75
1:E:260:LEU:O	1:E:267:VAL:HG23	1.85	0.75
1:H:696:LEU:HD12	1:H:697:THR:N	2.01	0.75
1:F:230:ARG:HH11	1:F:230:ARG:HG3	1.51	0.75
1:O:653[B]:HIS:CD2	1:O:667:GLU:HG3	2.22	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:653[B]:HIS:CD2	1:J:667:GLU:HG3	2.22	0.75
1:L:653[B]:HIS:CD2	1:L:667:GLU:HG3	2.22	0.75
1:K:696:LEU:HD12	1:K:697:THR:H	1.51	0.75
1:K:251:ARG:HB3	1:K:253:TYR:CE2	2.21	0.75
1:P:653[B]:HIS:CD2	1:P:667:GLU:HG3	2.22	0.75
1:D:654:TRP:CE2	1:D:666:GLY:HA3	2.21	0.75
1:G:653[B]:HIS:CD2	1:G:667:GLU:HG3	2.22	0.75
1:C:654:TRP:NE1	1:C:666:GLY:HA3	2.02	0.75
1:I:696:LEU:HD12	1:I:697:THR:N	2.01	0.75
1:E:292:ARG:C	1:E:293:LEU:HD23	2.08	0.75
1:P:696:LEU:HD12	1:P:697:THR:N	2.02	0.75
1:K:23:GLN:O	1:K:24:LEU:HD13	1.86	0.75
1:F:46:ARG:HG3	1:F:46:ARG:NH1	2.02	0.75
1:K:437:SER:HB2	5:K:2258:HOH:O	1.87	0.75
1:A:230:ARG:HH11	1:A:230:ARG:HG3	1.51	0.75
1:D:128:ASN:HD21	1:D:180:GLY:HA2	1.52	0.75
1:N:292:ARG:C	1:N:293:LEU:HD23	2.08	0.75
1:D:260:LEU:O	1:D:267:VAL:HG23	1.85	0.75
1:C:46:ARG:HG3	1:C:46:ARG:NH1	2.02	0.74
1:D:230:ARG:HG3	1:D:230:ARG:HH11	1.51	0.74
1:A:128:ASN:HD21	1:A:180:GLY:HA2	1.52	0.74
1:K:654:TRP:NE1	1:K:666:GLY:HA3	2.02	0.74
1:M:654:TRP:NE1	1:M:666:GLY:HA3	2.02	0.74
1:E:653[B]:HIS:CD2	1:E:667:GLU:HG3	2.22	0.74
1:A:260:LEU:O	1:A:267:VAL:HG23	1.85	0.74
1:E:595:THR:HG23	1:E:596:PRO:HA	1.68	0.74
1:E:696:LEU:HD12	1:E:697:THR:N	2.01	0.74
1:B:595:THR:HG23	1:B:596:PRO:HA	1.68	0.74
1:A:423:MET:HB2	1:D:282:ARG:HG3	1.68	0.74
1:P:128:ASN:HD21	1:P:180:GLY:HA2	1.52	0.74
1:M:128:ASN:HD21	1:M:180:GLY:HA2	1.52	0.74
1:H:653[B]:HIS:CD2	1:H:667:GLU:HG3	2.22	0.74
1:D:654:TRP:NE1	1:D:666:GLY:HA3	2.02	0.74
1:E:654:TRP:NE1	1:E:666:GLY:HA3	2.02	0.74
1:N:23:GLN:O	1:N:24:LEU:HD13	1.86	0.74
1:N:696:LEU:HD12	1:N:697:THR:N	2.01	0.74
1:H:251:ARG:HB3	1:H:253:TYR:CE2	2.21	0.74
1:K:230:ARG:HH11	1:K:230:ARG:HG3	1.51	0.74
1:H:654:TRP:NE1	1:H:666:GLY:HA3	2.02	0.74
1:F:653[B]:HIS:CD2	1:F:667:GLU:HG3	2.22	0.74
1:N:654:TRP:NE1	1:N:666:GLY:HA3	2.02	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:418:HIS:O	1:P:282:ARG:HD3	1.86	0.74
1:A:696:LEU:HD12	1:A:697:THR:N	2.02	0.74
1:E:696:LEU:HD12	1:E:697:THR:H	1.52	0.74
1:L:292:ARG:C	1:L:293:LEU:HD23	2.08	0.74
1:O:23:GLN:O	1:O:24:LEU:HD13	1.86	0.74
1:N:595:THR:HG23	1:N:596:PRO:HA	1.68	0.74
1:N:43:ARG:NH1	1:N:43:ARG:HG2	1.94	0.74
1:B:230:ARG:HG3	1:B:230:ARG:HH11	1.51	0.74
1:E:128:ASN:HD21	1:E:180:GLY:HA2	1.52	0.74
1:I:654:TRP:NE1	1:I:666:GLY:HA3	2.02	0.74
1:J:654:TRP:NE1	1:J:666:GLY:HA3	2.02	0.74
1:F:654:TRP:NE1	1:F:666:GLY:HA3	2.02	0.74
1:J:696:LEU:HD12	1:J:697:THR:H	1.51	0.74
1:H:696:LEU:HD12	1:H:697:THR:H	1.51	0.74
1:N:696:LEU:HD12	1:N:697:THR:H	1.51	0.74
1:P:595:THR:HG23	1:P:596:PRO:HA	1.68	0.74
1:N:434:PRO:HB3	1:O:434:PRO:HB3	1.68	0.74
1:N:427:THR:HA	1:N:436:MET:HE2	1.68	0.74
1:H:128:ASN:HD21	1:H:180:GLY:HA2	1.52	0.74
1:P:654:TRP:NE1	1:P:666:GLY:HA3	2.02	0.74
1:A:653[B]:HIS:CD2	1:A:667:GLU:HG3	2.22	0.74
1:C:653[B]:HIS:CD2	1:C:667:GLU:HG3	2.22	0.74
1:L:696:LEU:HD12	1:L:697:THR:H	1.51	0.74
1:A:856:TYR:HD2	1:A:864:MET:HE2	1.51	0.74
1:F:662:PRO:C	1:F:663:LEU:HD23	2.08	0.74
1:G:292:ARG:C	1:G:293:LEU:HD23	2.08	0.74
1:I:23:GLN:O	1:I:24:LEU:HD13	1.86	0.74
1:F:595:THR:HG23	1:F:596:PRO:HA	1.68	0.74
1:O:292:ARG:C	1:O:293:LEU:HD23	2.08	0.74
1:D:292:ARG:C	1:D:293:LEU:HD23	2.08	0.74
1:E:230:ARG:HH11	1:E:230:ARG:HG3	1.51	0.74
1:P:822:LEU:HD12	1:P:824:GLN:N	2.03	0.74
1:D:696:LEU:HD12	1:D:697:THR:N	2.01	0.74
1:I:336:ARG:HG2	1:I:336:ARG:HH11	1.52	0.74
1:N:662:PRO:C	1:N:663:LEU:HD23	2.08	0.74
1:M:336:ARG:HG2	1:M:336:ARG:HH11	1.52	0.74
1:J:43:ARG:NH1	1:J:43:ARG:HG2	1.94	0.74
1:H:46:ARG:HG3	1:H:46:ARG:NH1	2.02	0.74
1:M:696:LEU:HD12	1:M:697:THR:H	1.51	0.74
1:M:662:PRO:C	1:M:663:LEU:HD23	2.08	0.74
1:A:595:THR:HG23	1:A:596:PRO:HA	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:696:LEU:HD12	1:F:697:THR:N	2.01	0.74
1:P:292:ARG:C	1:P:293:LEU:HD23	2.08	0.74
1:M:595:THR:HG23	1:M:596:PRO:HA	1.68	0.74
1:A:701:VAL:O	1:A:703:PRO:HD3	1.88	0.74
1:O:251:ARG:HB3	1:O:253:TYR:CE2	2.21	0.74
1:N:230:ARG:HH11	1:N:230:ARG:HG3	1.51	0.74
1:D:822:LEU:HD12	1:D:824:GLN:N	2.03	0.74
1:H:822:LEU:HD12	1:H:824:GLN:N	2.03	0.74
1:B:662:PRO:C	1:B:663:LEU:HD23	2.08	0.74
1:L:662:PRO:C	1:L:663:LEU:HD23	2.08	0.74
1:O:662:PRO:C	1:O:663:LEU:HD23	2.08	0.74
1:H:595:THR:HG23	1:H:596:PRO:HA	1.68	0.74
1:E:46:ARG:HG3	1:E:46:ARG:NH1	2.02	0.74
1:J:128:ASN:HD21	1:J:180:GLY:HA2	1.52	0.74
1:K:696:LEU:HD12	1:K:697:THR:N	2.02	0.74
1:N:336:ARG:HH11	1:N:336:ARG:HG2	1.52	0.74
1:C:701:VAL:O	1:C:703:PRO:HD3	1.88	0.74
1:D:336:ARG:HH11	1:D:336:ARG:HG2	1.52	0.74
1:P:701:VAL:O	1:P:703:PRO:HD3	1.88	0.74
1:G:662:PRO:C	1:G:663:LEU:HD23	2.08	0.74
1:D:701:VAL:O	1:D:703:PRO:HD3	1.88	0.74
1:I:292:ARG:C	1:I:293:LEU:HD23	2.08	0.74
1:H:662:PRO:C	1:H:663:LEU:HD23	2.08	0.74
1:J:292:ARG:C	1:J:293:LEU:HD23	2.08	0.74
1:M:822:LEU:HD12	1:M:824:GLN:N	2.03	0.74
1:A:654:TRP:NE1	1:A:666:GLY:HA3	2.02	0.74
1:E:822:LEU:HD12	1:E:824:GLN:N	2.03	0.74
1:O:701:VAL:O	1:O:703:PRO:HD3	1.88	0.74
1:I:701:VAL:O	1:I:703:PRO:HD3	1.88	0.74
1:A:292:ARG:C	1:A:293:LEU:HD23	2.08	0.74
1:J:701:VAL:O	1:J:703:PRO:HD3	1.88	0.74
1:A:662:PRO:C	1:A:663:LEU:HD23	2.08	0.74
1:E:336:ARG:HH11	1:E:336:ARG:HG2	1.52	0.74
1:C:662:PRO:C	1:C:663:LEU:HD23	2.08	0.74
1:K:46:ARG:NH1	1:K:46:ARG:HG3	2.02	0.73
1:G:654:TRP:NE1	1:G:666:GLY:HA3	2.02	0.73
1:M:419:GLY:HA2	1:P:282:ARG:NH1	2.02	0.73
1:D:662:PRO:C	1:D:663:LEU:HD23	2.08	0.73
1:O:654:TRP:NE1	1:O:666:GLY:HA3	2.02	0.73
1:N:701:VAL:O	1:N:703:PRO:HD3	1.88	0.73
1:F:701:VAL:O	1:F:703:PRO:HD3	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:856:TYR:HD2	1:O:864:MET:HE2	1.53	0.73
1:E:662:PRO:C	1:E:663:LEU:HD23	2.08	0.73
1:B:701:VAL:O	1:B:703:PRO:HD3	1.88	0.73
1:C:292:ARG:C	1:C:293:LEU:HD23	2.08	0.73
1:A:336:ARG:HH11	1:A:336:ARG:HG2	1.52	0.73
1:M:46:ARG:NH1	1:M:46:ARG:HG3	2.02	0.73
1:I:230:ARG:HG3	1:I:230:ARG:HH11	1.51	0.73
1:F:128:ASN:HD21	1:F:180:GLY:HA2	1.52	0.73
1:B:654:TRP:NE1	1:B:666:GLY:HA3	2.02	0.73
1:L:654:TRP:NE1	1:L:666:GLY:HA3	2.02	0.73
1:I:423:MET:HB2	1:L:282:ARG:HG3	1.70	0.73
1:K:662:PRO:C	1:K:663:LEU:HD23	2.08	0.73
1:J:336:ARG:HG2	1:J:336:ARG:HH11	1.52	0.73
1:B:292:ARG:C	1:B:293:LEU:HD23	2.08	0.73
1:L:701:VAL:O	1:L:703:PRO:HD3	1.88	0.73
1:G:437:SER:HB2	5:G:2258:HOH:O	1.87	0.73
1:O:128:ASN:HD21	1:O:180:GLY:HA2	1.52	0.73
1:B:128:ASN:HD21	1:B:180:GLY:HA2	1.52	0.73
1:A:822:LEU:HD12	1:A:824:GLN:N	2.03	0.73
1:H:701:VAL:O	1:H:703:PRO:HD3	1.88	0.73
1:M:292:ARG:C	1:M:293:LEU:HD23	2.08	0.73
1:N:856:TYR:HD2	1:N:864:MET:HE2	1.52	0.73
1:A:43:ARG:NH1	1:A:43:ARG:HG2	1.94	0.73
1:K:822:LEU:HD12	1:K:824:GLN:N	2.03	0.73
1:I:822:LEU:HD12	1:I:824:GLN:N	2.03	0.73
1:N:437:SER:HB2	5:N:2263:HOH:O	1.88	0.73
1:E:701:VAL:O	1:E:703:PRO:HD3	1.88	0.73
1:F:292:ARG:C	1:F:293:LEU:HD23	2.08	0.73
1:K:701:VAL:O	1:K:703:PRO:HD3	1.88	0.73
1:P:662:PRO:C	1:P:663:LEU:HD23	2.08	0.73
1:J:662:PRO:C	1:J:663:LEU:HD23	2.08	0.73
1:E:748:CME:C	1:E:749:ILE:HD13	2.19	0.73
1:N:128:ASN:HD21	1:N:180:GLY:HA2	1.52	0.73
1:G:128:ASN:HD21	1:G:180:GLY:HA2	1.52	0.73
1:G:822:LEU:HD12	1:G:824:GLN:N	2.03	0.73
1:I:128:ASN:HD21	1:I:180:GLY:HA2	1.52	0.73
1:P:696:LEU:HD12	1:P:697:THR:H	1.52	0.73
1:I:662:PRO:C	1:I:663:LEU:HD23	2.08	0.73
1:H:748:CME:C	1:H:749:ILE:HD13	2.19	0.73
1:O:822:LEU:HD12	1:O:824:GLN:N	2.03	0.73
1:C:128:ASN:HD21	1:C:180:GLY:HA2	1.52	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:336:ARG:HG2	1:B:336:ARG:HH11	1.52	0.73
1:H:292:ARG:C	1:H:293:LEU:HD23	2.08	0.73
1:G:336:ARG:HH11	1:G:336:ARG:HG2	1.52	0.73
1:P:748:CME:C	1:P:749:ILE:HD13	2.19	0.73
1:D:748:CME:C	1:D:749:ILE:HD13	2.19	0.73
1:C:748:CME:C	1:C:749:ILE:HD13	2.19	0.73
1:K:128:ASN:HD21	1:K:180:GLY:HA2	1.52	0.73
1:F:822:LEU:HD12	1:F:824:GLN:N	2.03	0.73
1:O:46:ARG:HG3	1:O:46:ARG:NH1	2.02	0.73
1:B:651:LEU:HD12	1:B:652:LEU:N	2.04	0.73
1:B:822:LEU:HD12	1:B:824:GLN:N	2.03	0.73
1:N:822:LEU:HD12	1:N:824:GLN:N	2.03	0.73
1:G:701:VAL:O	1:G:703:PRO:HD3	1.88	0.73
1:B:49:GLN:H	1:B:49:GLN:NE2	1.87	0.73
1:H:43:ARG:NH1	1:H:43:ARG:HG2	1.94	0.72
1:I:43:ARG:NH1	1:I:43:ARG:HG2	1.94	0.72
1:J:748:CME:C	1:J:749:ILE:HD13	2.19	0.72
1:L:128:ASN:HD21	1:L:180:GLY:HA2	1.52	0.72
1:F:696:LEU:HD12	1:F:697:THR:H	1.51	0.72
1:C:336:ARG:HH11	1:C:336:ARG:HG2	1.52	0.72
1:K:49:GLN:NE2	1:K:49:GLN:H	1.87	0.72
1:E:49:GLN:H	1:E:49:GLN:NE2	1.87	0.72
1:G:49:GLN:H	1:G:49:GLN:NE2	1.87	0.72
1:O:748:CME:C	1:O:749:ILE:HD13	2.19	0.72
1:M:748:CME:C	1:M:749:ILE:HD13	2.19	0.72
1:I:651:LEU:HD12	1:I:652:LEU:N	2.04	0.72
1:K:292:ARG:C	1:K:293:LEU:HD23	2.08	0.72
1:C:49:GLN:NE2	1:C:49:GLN:H	1.87	0.72
1:K:748:CME:C	1:K:749:ILE:HD13	2.19	0.72
1:B:748:CME:C	1:B:749:ILE:HD13	2.19	0.72
1:A:748:CME:C	1:A:749:ILE:HD13	2.19	0.72
1:G:651:LEU:HD12	1:G:652:LEU:N	2.04	0.72
1:C:822:LEU:HD12	1:C:824:GLN:N	2.03	0.72
1:D:856:TYR:HD2	1:D:864:MET:HE2	1.53	0.72
1:O:49:GLN:NE2	1:O:49:GLN:H	1.87	0.72
1:J:49:GLN:NE2	1:J:49:GLN:H	1.87	0.72
1:L:336:ARG:HG2	1:L:336:ARG:HH11	1.52	0.72
1:B:43:ARG:HG2	1:B:43:ARG:NH1	1.94	0.72
1:M:651:LEU:HD12	1:M:652:LEU:N	2.05	0.72
1:M:49:GLN:H	1:M:49:GLN:NE2	1.87	0.72
1:L:748:CME:C	1:L:749:ILE:HD13	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:419:GLY:HA2	1:D:282:ARG:HH11	1.52	0.72
1:J:822:LEU:HD12	1:J:824:GLN:N	2.03	0.72
1:M:701:VAL:O	1:M:703:PRO:HD3	1.88	0.72
1:F:49:GLN:H	1:F:49:GLN:NE2	1.87	0.72
1:A:49:GLN:H	1:A:49:GLN:NE2	1.87	0.72
1:N:748:CME:C	1:N:749:ILE:HD13	2.19	0.72
1:F:748:CME:C	1:F:749:ILE:HD13	2.19	0.72
1:C:651:LEU:HD12	1:C:652:LEU:N	2.04	0.72
1:C:188:VAL:C	1:C:189:LEU:HD23	2.10	0.72
1:M:188:VAL:C	1:M:189:LEU:HD23	2.10	0.72
1:M:11:LEU:N	1:M:11:LEU:HD23	2.05	0.72
1:I:748:CME:C	1:I:749:ILE:HD13	2.19	0.72
1:E:651:LEU:HD12	1:E:652:LEU:N	2.04	0.72
1:L:651:LEU:HD12	1:L:652:LEU:N	2.04	0.72
1:O:651:LEU:HD12	1:O:652:LEU:N	2.04	0.72
1:L:822:LEU:HD12	1:L:824:GLN:N	2.03	0.72
1:P:188:VAL:C	1:P:189:LEU:HD23	2.10	0.72
1:E:188:VAL:C	1:E:189:LEU:HD23	2.10	0.72
1:H:11:LEU:HD23	1:H:11:LEU:N	2.05	0.72
1:P:49:GLN:H	1:P:49:GLN:NE2	1.87	0.72
1:A:11:LEU:N	1:A:11:LEU:HD23	2.05	0.72
1:N:49:GLN:NE2	1:N:49:GLN:H	1.87	0.72
1:G:748:CME:C	1:G:749:ILE:HD13	2.19	0.72
1:J:651:LEU:HD12	1:J:652:LEU:N	2.04	0.72
1:K:651:LEU:HD12	1:K:652:LEU:N	2.04	0.72
1:K:188:VAL:C	1:K:189:LEU:HD23	2.10	0.72
1:B:681:GLU:HA	1:B:681:GLU:OE2	1.90	0.72
1:D:49:GLN:NE2	1:D:49:GLN:H	1.87	0.72
1:N:11:LEU:N	1:N:11:LEU:HD23	2.05	0.72
1:I:188:VAL:C	1:I:189:LEU:HD23	2.10	0.71
1:K:11:LEU:N	1:K:11:LEU:HD23	2.05	0.71
1:L:49:GLN:H	1:L:49:GLN:NE2	1.87	0.71
1:F:336:ARG:HG2	1:F:336:ARG:HH11	1.52	0.71
1:J:188:VAL:C	1:J:189:LEU:HD23	2.10	0.71
1:N:651:LEU:HD12	1:N:652:LEU:N	2.04	0.71
1:H:240:LEU:HD12	1:H:241:GLU:H	1.56	0.71
1:J:240:LEU:HD12	1:J:241:GLU:H	1.56	0.71
1:D:188:VAL:C	1:D:189:LEU:HD23	2.10	0.71
1:H:336:ARG:HG2	1:H:336:ARG:HH11	1.52	0.71
1:L:856:TYR:HD2	1:L:864:MET:HE2	1.55	0.71
1:D:681:GLU:HA	1:D:681:GLU:OE2	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:336:ARG:HG2	1:K:336:ARG:HH11	1.52	0.71
1:H:49:GLN:NE2	1:H:49:GLN:H	1.87	0.71
1:E:681:GLU:HA	1:E:681:GLU:OE2	1.90	0.71
1:P:240:LEU:HD12	1:P:241:GLU:H	1.56	0.71
1:L:188:VAL:C	1:L:189:LEU:HD23	2.10	0.71
1:J:46:ARG:NH1	1:J:46:ARG:HG3	2.02	0.71
1:P:651:LEU:HD12	1:P:652:LEU:N	2.04	0.71
1:M:230:ARG:HG3	1:M:230:ARG:NH1	2.06	0.71
1:E:230:ARG:NH1	1:E:230:ARG:HG3	2.06	0.71
1:G:188:VAL:C	1:G:189:LEU:HD23	2.10	0.71
1:H:188:VAL:C	1:H:189:LEU:HD23	2.10	0.71
1:A:188:VAL:C	1:A:189:LEU:HD23	2.10	0.71
1:I:278:ILE:H	1:I:278:ILE:HD12	1.56	0.71
1:F:651:LEU:HD12	1:F:652:LEU:N	2.04	0.71
1:B:46:ARG:NH1	1:B:46:ARG:HG3	2.02	0.71
1:B:230:ARG:NH1	1:B:230:ARG:HG3	2.05	0.71
1:L:230:ARG:NH1	1:L:230:ARG:HG3	2.06	0.71
1:O:188:VAL:C	1:O:189:LEU:HD23	2.10	0.71
1:P:336:ARG:HH11	1:P:336:ARG:HG2	1.52	0.71
1:C:622:HIS:O	1:C:625:GLN:HG2	1.91	0.71
1:D:11:LEU:HD23	1:D:11:LEU:N	2.05	0.71
1:G:43:ARG:NH1	1:G:43:ARG:HG2	1.94	0.71
1:H:651:LEU:HD12	1:H:652:LEU:N	2.04	0.71
1:A:240:LEU:HD12	1:A:241:GLU:H	1.56	0.71
1:N:282:ARG:NH1	1:O:419:GLY:HA2	2.05	0.71
1:L:681:GLU:OE2	1:L:681:GLU:HA	1.90	0.71
1:I:49:GLN:NE2	1:I:49:GLN:H	1.87	0.71
1:G:11:LEU:N	1:G:11:LEU:HD23	2.05	0.71
1:O:43:ARG:HG2	1:O:43:ARG:NH1	1.94	0.71
1:H:437:SER:HB2	5:H:2258:HOH:O	1.89	0.71
1:D:622:HIS:O	1:D:625:GLN:HG2	1.91	0.71
1:I:46:ARG:HG3	1:I:46:ARG:NH1	2.02	0.71
1:P:681:GLU:OE2	1:P:681:GLU:HA	1.90	0.71
1:O:336:ARG:HG2	1:O:336:ARG:HH11	1.52	0.71
1:K:681:GLU:OE2	1:K:681:GLU:HA	1.90	0.71
1:P:278:ILE:H	1:P:278:ILE:HD12	1.56	0.71
1:K:278:ILE:HD12	1:K:278:ILE:H	1.56	0.71
1:B:11:LEU:HD23	1:B:11:LEU:N	2.05	0.71
1:O:11:LEU:N	1:O:11:LEU:HD23	2.05	0.71
1:E:622:HIS:O	1:E:625:GLN:HG2	1.91	0.71
1:F:622:HIS:O	1:F:625:GLN:HG2	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:240:LEU:HD12	1:D:241:GLU:H	1.56	0.71
1:H:681:GLU:HA	1:H:681:GLU:OE2	1.90	0.71
1:D:920:LEU:HB3	1:D:921:PRO:HD2	1.73	0.70
1:J:437:SER:HB2	5:J:2258:HOH:O	1.90	0.70
1:E:920:LEU:HB3	1:E:921:PRO:HD2	1.73	0.70
1:P:230:ARG:HG3	1:P:230:ARG:NH1	2.05	0.70
1:F:188:VAL:C	1:F:189:LEU:HD23	2.10	0.70
1:N:188:VAL:C	1:N:189:LEU:HD23	2.10	0.70
1:I:11:LEU:N	1:I:11:LEU:HD23	2.05	0.70
1:G:856:TYR:HD2	1:G:864:MET:HE2	1.56	0.70
1:G:46:ARG:HG3	1:G:46:ARG:NH1	2.02	0.70
1:A:651:LEU:HD12	1:A:652:LEU:N	2.04	0.70
1:F:11:LEU:HD23	1:F:11:LEU:N	2.05	0.70
1:K:622:HIS:O	1:K:625:GLN:HG2	1.91	0.70
1:I:856:TYR:HD2	1:I:864:MET:HE2	1.54	0.70
1:C:43:ARG:HG2	1:C:43:ARG:NH1	1.94	0.70
1:N:740:LEU:HD12	1:N:741:THR:N	2.06	0.70
1:L:920:LEU:HB3	1:L:921:PRO:HD2	1.73	0.70
1:O:920:LEU:HB3	1:O:921:PRO:HD2	1.73	0.70
1:G:681:GLU:HA	1:G:681:GLU:OE2	1.91	0.70
1:G:622:HIS:O	1:G:625:GLN:HG2	1.91	0.70
1:N:622:HIS:O	1:N:625:GLN:HG2	1.91	0.70
1:H:622:HIS:O	1:H:625:GLN:HG2	1.91	0.70
1:E:11:LEU:N	1:E:11:LEU:HD23	2.05	0.70
1:O:278:ILE:H	1:O:278:ILE:HD12	1.56	0.70
1:M:681:GLU:OE2	1:M:681:GLU:HA	1.90	0.70
1:F:740:LEU:HD12	1:F:741:THR:N	2.06	0.70
1:I:740:LEU:HD12	1:I:741:THR:N	2.06	0.70
1:G:920:LEU:HB3	1:G:921:PRO:HD2	1.73	0.70
1:F:856:TYR:CD2	1:F:864:MET:HE2	2.26	0.70
1:E:240:LEU:HD12	1:E:241:GLU:H	1.56	0.70
1:B:188:VAL:C	1:B:189:LEU:HD23	2.11	0.70
1:A:278:ILE:H	1:A:278:ILE:HD12	1.56	0.70
1:B:278:ILE:H	1:B:278:ILE:HD12	1.56	0.70
1:D:740:LEU:HD12	1:D:741:THR:N	2.06	0.70
1:P:46:ARG:HG3	1:P:46:ARG:NH1	2.02	0.70
1:M:920:LEU:HB3	1:M:921:PRO:HD2	1.73	0.70
1:P:622:HIS:O	1:P:625:GLN:HG2	1.91	0.70
1:L:11:LEU:HD23	1:L:11:LEU:N	2.05	0.70
1:C:681:GLU:OE2	1:C:681:GLU:HA	1.90	0.70
1:D:230:ARG:HG3	1:D:230:ARG:NH1	2.05	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1017:GLN:HB3	5:F:2260:HOH:O	1.92	0.70
1:H:278:ILE:H	1:H:278:ILE:HD12	1.56	0.70
1:P:11:LEU:N	1:P:11:LEU:HD23	2.05	0.70
1:J:11:LEU:N	1:J:11:LEU:HD23	2.05	0.70
1:I:681:GLU:OE2	1:I:681:GLU:HA	1.90	0.70
1:A:920:LEU:HB3	1:A:921:PRO:HD2	1.73	0.70
1:I:240:LEU:HD12	1:I:241:GLU:H	1.56	0.70
1:K:240:LEU:HD12	1:K:241:GLU:H	1.56	0.70
1:M:622:HIS:O	1:M:625:GLN:HG2	1.91	0.70
1:K:1017:GLN:HB3	5:K:2260:HOH:O	1.92	0.70
1:O:622:HIS:O	1:O:625:GLN:HG2	1.91	0.70
1:J:278:ILE:HD12	1:J:278:ILE:H	1.56	0.70
1:N:278:ILE:HD12	1:N:278:ILE:H	1.56	0.70
1:P:1017:GLN:HB3	5:P:2261:HOH:O	1.92	0.70
1:G:740:LEU:HD12	1:G:741:THR:N	2.06	0.70
1:D:651:LEU:HD12	1:D:652:LEU:N	2.05	0.70
1:O:230:ARG:NH1	1:O:230:ARG:HG3	2.05	0.70
1:N:230:ARG:NH1	1:N:230:ARG:HG3	2.06	0.70
1:H:230:ARG:NH1	1:H:230:ARG:HG3	2.05	0.70
1:C:230:ARG:NH1	1:C:230:ARG:HG3	2.06	0.70
1:A:681:GLU:HA	1:A:681:GLU:OE2	1.90	0.70
1:L:278:ILE:HD12	1:L:278:ILE:H	1.56	0.70
1:A:425:ARG:NH2	1:D:287:ASP:OD2	2.24	0.70
1:B:577:LYS:O	1:B:584:PRO:HA	1.92	0.70
1:I:577:LYS:O	1:I:584:PRO:HA	1.92	0.70
1:E:577:LYS:O	1:E:584:PRO:HA	1.92	0.70
1:E:437:SER:HB2	5:E:2258:HOH:O	1.91	0.70
1:G:230:ARG:HG3	1:G:230:ARG:NH1	2.06	0.70
1:B:240:LEU:HD12	1:B:241:GLU:H	1.56	0.70
1:E:1017:GLN:HB3	5:E:2260:HOH:O	1.92	0.70
1:J:78:LEU:HB3	1:J:79:PRO:HD2	1.74	0.70
1:J:622:HIS:O	1:J:625:GLN:HG2	1.91	0.70
1:F:278:ILE:H	1:F:278:ILE:HD12	1.56	0.70
1:G:278:ILE:HD12	1:G:278:ILE:H	1.56	0.70
1:A:46:ARG:HG3	1:A:46:ARG:NH1	2.02	0.70
1:M:577:LYS:O	1:M:584:PRO:HA	1.92	0.70
1:L:240:LEU:HD12	1:L:241:GLU:H	1.56	0.70
1:P:78:LEU:HB3	1:P:79:PRO:HD2	1.74	0.70
1:I:622:HIS:O	1:I:625:GLN:HG2	1.91	0.70
1:L:622:HIS:O	1:L:625:GLN:HG2	1.91	0.70
1:O:681:GLU:HA	1:O:681:GLU:OE2	1.90	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:293:LEU:N	1:H:293:LEU:HD23	2.07	0.69
1:I:78:LEU:HB3	1:I:79:PRO:HD2	1.74	0.69
1:J:681:GLU:OE2	1:J:681:GLU:HA	1.90	0.69
1:D:78:LEU:HB3	1:D:79:PRO:HD2	1.74	0.69
1:M:278:ILE:HD12	1:M:278:ILE:H	1.56	0.69
1:N:681:GLU:HA	1:N:681:GLU:OE2	1.90	0.69
1:A:740:LEU:HD12	1:A:741:THR:N	2.06	0.69
1:P:920:LEU:HB3	1:P:921:PRO:HD2	1.73	0.69
1:K:293:LEU:N	1:K:293:LEU:HD23	2.07	0.69
1:L:1017:GLN:HB3	5:L:2260:HOH:O	1.92	0.69
1:M:1017:GLN:HB3	5:M:2259:HOH:O	1.92	0.69
1:C:11:LEU:N	1:C:11:LEU:HD23	2.05	0.69
1:I:1017:GLN:HB3	5:I:2260:HOH:O	1.92	0.69
1:A:577:LYS:O	1:A:584:PRO:HA	1.92	0.69
1:K:920:LEU:HB3	1:K:921:PRO:HD2	1.73	0.69
1:A:622:HIS:O	1:A:625:GLN:HG2	1.91	0.69
1:B:622:HIS:O	1:B:625:GLN:HG2	1.91	0.69
1:H:78:LEU:HB3	1:H:79:PRO:HD2	1.74	0.69
1:D:1017:GLN:HB3	5:D:2261:HOH:O	1.92	0.69
1:N:577:LYS:O	1:N:584:PRO:HA	1.92	0.69
1:F:577:LYS:O	1:F:584:PRO:HA	1.92	0.69
1:F:920:LEU:HB3	1:F:921:PRO:HD2	1.73	0.69
1:N:920:LEU:HB3	1:N:921:PRO:HD2	1.73	0.69
1:G:240:LEU:HD12	1:G:241:GLU:H	1.55	0.69
1:P:293:LEU:HD23	1:P:293:LEU:N	2.07	0.69
1:E:658:LEU:O	1:E:661:LYS:HD3	1.93	0.69
1:K:78:LEU:HB3	1:K:79:PRO:HD2	1.74	0.69
1:F:681:GLU:OE2	1:F:681:GLU:HA	1.90	0.69
1:C:278:ILE:H	1:C:278:ILE:HD12	1.56	0.69
1:C:78:LEU:HB3	1:C:79:PRO:HD2	1.74	0.69
1:M:43:ARG:HG2	1:M:43:ARG:NH1	1.94	0.69
1:O:740:LEU:HD12	1:O:741:THR:N	2.06	0.69
1:B:920:LEU:HB3	1:B:921:PRO:HD2	1.73	0.69
1:O:240:LEU:HD12	1:O:241:GLU:H	1.56	0.69
1:P:856:TYR:HD2	1:P:864:MET:HE2	1.55	0.69
1:D:278:ILE:HD12	1:D:278:ILE:H	1.56	0.69
1:D:577:LYS:O	1:D:584:PRO:HA	1.92	0.69
1:E:740:LEU:HD12	1:E:741:THR:N	2.06	0.69
1:H:577:LYS:O	1:H:584:PRO:HA	1.92	0.69
1:F:240:LEU:HD12	1:F:241:GLU:H	1.56	0.69
1:M:658:LEU:O	1:M:661:LYS:HD3	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:856:TYR:HD2	1:H:864:MET:HE2	1.56	0.69
1:C:658:LEU:O	1:C:661:LYS:HD3	1.93	0.69
1:D:658:LEU:O	1:D:661:LYS:HD3	1.93	0.69
1:C:861:SER:OG	1:C:863:GLN:HG3	1.93	0.69
1:P:577:LYS:O	1:P:584:PRO:HA	1.92	0.69
1:M:293:LEU:N	1:M:293:LEU:HD23	2.07	0.69
1:E:856:TYR:HD2	1:E:864:MET:HE2	1.56	0.69
1:E:861:SER:OG	1:E:863:GLN:HG3	1.93	0.69
1:M:861:SER:OG	1:M:863:GLN:HG3	1.93	0.69
1:G:78:LEU:HB3	1:G:79:PRO:HD2	1.74	0.69
1:C:577:LYS:O	1:C:584:PRO:HA	1.92	0.69
1:I:861:SER:OG	1:I:863:GLN:HG3	1.93	0.69
1:J:577:LYS:O	1:J:584:PRO:HA	1.92	0.69
1:H:920:LEU:HB3	1:H:921:PRO:HD2	1.73	0.69
1:N:240:LEU:HD12	1:N:241:GLU:H	1.56	0.69
1:F:230:ARG:NH1	1:F:230:ARG:HG3	2.06	0.69
1:I:230:ARG:HG3	1:I:230:ARG:NH1	2.05	0.69
1:C:240:LEU:HD12	1:C:241:GLU:H	1.56	0.69
1:K:658:LEU:O	1:K:661:LYS:HD3	1.93	0.69
1:I:658:LEU:O	1:I:661:LYS:HD3	1.93	0.69
1:L:78:LEU:HB3	1:L:79:PRO:HD2	1.74	0.69
1:E:278:ILE:HD12	1:E:278:ILE:H	1.56	0.69
1:O:78:LEU:HB3	1:O:79:PRO:HD2	1.74	0.69
1:G:861:SER:OG	1:G:863:GLN:HG3	1.93	0.69
1:O:861:SER:OG	1:O:863:GLN:HG3	1.93	0.69
1:F:861:SER:OG	1:F:863:GLN:HG3	1.93	0.69
1:O:577:LYS:O	1:O:584:PRO:HA	1.92	0.69
1:J:920:LEU:HB3	1:J:921:PRO:HD2	1.73	0.69
1:E:282:ARG:HG3	1:H:423:MET:HB2	1.73	0.69
1:D:673:ALA:HB1	1:D:674:PRO:HD2	1.75	0.69
1:M:129:VAL:HG23	1:M:182:ASN:ND2	2.08	0.69
1:F:129:VAL:HG23	1:F:182:ASN:ND2	2.08	0.69
1:F:658:LEU:O	1:F:661:LYS:HD3	1.93	0.69
1:O:1017:GLN:HB3	5:O:2259:HOH:O	1.92	0.69
1:N:129:VAL:HG23	1:N:182:ASN:ND2	2.08	0.69
1:H:861:SER:OG	1:H:863:GLN:HG3	1.93	0.69
1:B:861:SER:OG	1:B:863:GLN:HG3	1.93	0.69
1:B:129:VAL:HG23	1:B:182:ASN:ND2	2.08	0.69
1:I:673:ALA:HB1	1:I:674:PRO:HD2	1.75	0.69
1:G:577:LYS:O	1:G:584:PRO:HA	1.92	0.69
1:C:920:LEU:HB3	1:C:921:PRO:HD2	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:861:SER:OG	1:P:863:GLN:HG3	1.93	0.69
1:J:129:VAL:HG23	1:J:182:ASN:ND2	2.08	0.69
1:K:577:LYS:O	1:K:584:PRO:HA	1.92	0.69
1:A:129:VAL:HG23	1:A:182:ASN:ND2	2.08	0.69
1:E:78:LEU:HB3	1:E:79:PRO:HD2	1.74	0.69
1:N:658:LEU:O	1:N:661:LYS:HD3	1.93	0.69
1:N:861:SER:OG	1:N:863:GLN:HG3	1.93	0.69
1:C:1017:GLN:HB3	5:C:2260:HOH:O	1.92	0.69
1:M:240:LEU:HD12	1:M:241:GLU:H	1.55	0.68
1:M:322:LEU:HD11	1:M:324:GLU:O	1.94	0.68
1:D:322:LEU:HD11	1:D:324:GLU:O	1.94	0.68
1:O:658:LEU:O	1:O:661:LYS:HD3	1.93	0.68
1:J:861:SER:OG	1:J:863:GLN:HG3	1.93	0.68
1:M:78:LEU:HB3	1:M:79:PRO:HD2	1.74	0.68
1:C:740:LEU:HD12	1:C:741:THR:N	2.06	0.68
1:I:920:LEU:HB3	1:I:921:PRO:HD2	1.73	0.68
1:J:230:ARG:HG3	1:J:230:ARG:NH1	2.06	0.68
1:M:856:TYR:CD2	1:M:864:MET:HE2	2.28	0.68
1:J:322:LEU:HD11	1:J:324:GLU:O	1.94	0.68
1:N:423:MET:HB2	1:O:282:ARG:HG3	1.73	0.68
1:K:673:ALA:HB1	1:K:674:PRO:HD2	1.75	0.68
1:F:673:ALA:HB1	1:F:674:PRO:HD2	1.75	0.68
1:G:1017:GLN:HB3	5:G:2260:HOH:O	1.92	0.68
1:N:673:ALA:HB1	1:N:674:PRO:HD2	1.75	0.68
1:N:1017:GLN:HB3	5:N:2259:HOH:O	1.92	0.68
1:C:129:VAL:HG23	1:C:182:ASN:ND2	2.08	0.68
1:P:322:LEU:HD11	1:P:324:GLU:O	1.94	0.68
1:L:658:LEU:O	1:L:661:LYS:HD3	1.93	0.68
1:F:293:LEU:N	1:F:293:LEU:HD23	2.07	0.68
1:D:861:SER:OG	1:D:863:GLN:HG3	1.93	0.68
1:E:673:ALA:HB1	1:E:674:PRO:HD2	1.75	0.68
1:P:658:LEU:O	1:P:661:LYS:HD3	1.93	0.68
1:J:1017:GLN:HB3	5:J:2260:HOH:O	1.92	0.68
1:B:1017:GLN:HB3	5:B:2259:HOH:O	1.92	0.68
1:M:745:MET:HA	1:M:745:MET:HE2	1.76	0.68
1:A:861:SER:OG	1:A:863:GLN:HG3	1.93	0.68
1:A:658:LEU:O	1:A:661:LYS:HD3	1.93	0.68
1:H:740:LEU:HD12	1:H:741:THR:N	2.06	0.68
1:B:322:LEU:HD11	1:B:324:GLU:O	1.94	0.68
1:E:293:LEU:HD23	1:E:293:LEU:N	2.07	0.68
1:N:293:LEU:HD23	1:N:293:LEU:N	2.07	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:293:LEU:N	1:I:293:LEU:HD23	2.07	0.68
1:L:673:ALA:HB1	1:L:674:PRO:HD2	1.75	0.68
1:O:129:VAL:HG23	1:O:182:ASN:ND2	2.08	0.68
1:A:673:ALA:HB1	1:A:674:PRO:HD2	1.75	0.68
1:H:1017:GLN:HB3	5:H:2260:HOH:O	1.92	0.68
1:J:282:ARG:HG3	1:K:423:MET:HB2	1.74	0.68
1:B:78:LEU:HB3	1:B:79:PRO:HD2	1.74	0.68
1:G:129:VAL:HG23	1:G:182:ASN:ND2	2.08	0.68
1:K:230:ARG:HG3	1:K:230:ARG:NH1	2.06	0.68
1:G:322:LEU:HD11	1:G:324:GLU:O	1.94	0.68
1:A:322:LEU:HD11	1:A:324:GLU:O	1.94	0.68
1:A:293:LEU:HD23	1:A:293:LEU:N	2.07	0.68
1:C:293:LEU:N	1:C:293:LEU:HD23	2.07	0.68
1:K:3:ILE:HG13	1:K:4:THR:N	2.09	0.68
1:K:861:SER:OG	1:K:863:GLN:HG3	1.93	0.68
1:L:577:LYS:O	1:L:584:PRO:HA	1.92	0.68
1:A:282:ARG:HG3	1:D:423:MET:HB2	1.74	0.68
1:D:1021:CME:CZ	1:D:1021:CME:HB3	2.21	0.68
1:A:230:ARG:HG3	1:A:230:ARG:NH1	2.06	0.68
1:O:322:LEU:HD11	1:O:324:GLU:O	1.94	0.68
1:E:322:LEU:HD11	1:E:324:GLU:O	1.94	0.68
1:B:658:LEU:O	1:B:661:LYS:HD3	1.93	0.68
1:J:673:ALA:HB1	1:J:674:PRO:HD2	1.75	0.68
1:I:282:ARG:HG3	1:L:423:MET:HB2	1.75	0.68
1:N:46:ARG:HG3	1:N:46:ARG:NH1	2.02	0.68
1:K:322:LEU:HD11	1:K:324:GLU:O	1.94	0.68
1:L:293:LEU:HD23	1:L:293:LEU:N	2.07	0.68
1:J:293:LEU:HD23	1:J:293:LEU:N	2.07	0.68
1:B:293:LEU:N	1:B:293:LEU:HD23	2.07	0.68
1:A:1017:GLN:HB3	5:A:2258:HOH:O	1.92	0.68
1:B:673:ALA:HB1	1:B:674:PRO:HD2	1.75	0.68
1:F:210:ARG:HH12	1:F:395:HIS:N	1.92	0.68
1:I:322:LEU:HD11	1:I:324:GLU:O	1.93	0.68
1:F:78:LEU:HB3	1:F:79:PRO:HD2	1.74	0.68
1:E:423:MET:HB2	1:H:282:ARG:HG3	1.76	0.68
1:N:78:LEU:HB3	1:N:79:PRO:HD2	1.74	0.68
1:A:427:THR:HA	1:A:436:MET:HE2	1.74	0.68
1:P:210:ARG:HH12	1:P:395:HIS:N	1.92	0.68
1:N:210:ARG:HH12	1:N:395:HIS:N	1.92	0.68
1:F:322:LEU:HD11	1:F:324:GLU:O	1.94	0.68
1:H:658:LEU:O	1:H:661:LYS:HD3	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:658:LEU:O	1:G:661:LYS:HD3	1.93	0.68
1:M:673:ALA:HB1	1:M:674:PRO:HD2	1.75	0.68
1:P:740:LEU:HD12	1:P:741:THR:N	2.06	0.67
1:N:322:LEU:HD11	1:N:324:GLU:O	1.94	0.67
1:A:217:LYS:HG2	1:A:218:PRO:HD2	1.76	0.67
1:B:278:ILE:N	1:B:278:ILE:HD12	2.10	0.67
1:A:78:LEU:HB3	1:A:79:PRO:HD2	1.74	0.67
1:E:129:VAL:HG23	1:E:182:ASN:ND2	2.08	0.67
1:B:740:LEU:HD12	1:B:741:THR:N	2.06	0.67
1:K:427:THR:HA	1:K:436:MET:HE2	1.74	0.67
1:P:36:TRP:CE2	1:P:42:ALA:HA	2.30	0.67
1:H:217:LYS:HG2	1:H:218:PRO:HD2	1.76	0.67
1:O:293:LEU:HD23	1:O:293:LEU:N	2.07	0.67
1:C:336:ARG:NH1	1:C:336:ARG:HG2	2.09	0.67
1:A:278:ILE:HD12	1:A:278:ILE:N	2.10	0.67
1:N:278:ILE:N	1:N:278:ILE:HD12	2.10	0.67
1:F:278:ILE:HD12	1:F:278:ILE:N	2.10	0.67
1:C:278:ILE:N	1:C:278:ILE:HD12	2.10	0.67
1:K:129:VAL:HG23	1:K:182:ASN:ND2	2.08	0.67
1:H:129:VAL:HG23	1:H:182:ASN:ND2	2.08	0.67
1:K:740:LEU:HD12	1:K:741:THR:N	2.06	0.67
1:E:217:LYS:HG2	1:E:218:PRO:HD2	1.76	0.67
1:E:336:ARG:HG2	1:E:336:ARG:NH1	2.09	0.67
1:J:336:ARG:HG2	1:J:336:ARG:NH1	2.09	0.67
1:O:278:ILE:N	1:O:278:ILE:HD12	2.10	0.67
1:G:278:ILE:HD12	1:G:278:ILE:N	2.10	0.67
1:K:77:ASP:C	1:K:78:LEU:HD23	2.15	0.67
1:P:129:VAL:HG23	1:P:182:ASN:ND2	2.08	0.67
1:L:129:VAL:HG23	1:L:182:ASN:ND2	2.08	0.67
1:H:749:ILE:HD13	1:H:749:ILE:N	2.10	0.67
1:P:749:ILE:HD13	1:P:749:ILE:N	2.10	0.67
1:E:749:ILE:N	1:E:749:ILE:HD13	2.10	0.67
1:D:278:ILE:N	1:D:278:ILE:HD12	2.10	0.67
1:G:673:ALA:HB1	1:G:674:PRO:HD2	1.75	0.67
1:I:129:VAL:HG23	1:I:182:ASN:ND2	2.08	0.67
1:P:437:SER:HB2	5:P:2102:HOH:O	1.94	0.67
1:P:217:LYS:HG2	1:P:218:PRO:HD2	1.77	0.67
1:C:36:TRP:CE2	1:C:42:ALA:HA	2.30	0.67
1:O:673:ALA:HB1	1:O:674:PRO:HD2	1.75	0.67
1:J:740:LEU:HD12	1:J:741:THR:N	2.06	0.67
1:D:749:ILE:N	1:D:749:ILE:HD13	2.10	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1021:CME:CZ	1:I:1021:CME:HB3	2.21	0.67
1:K:42:ALA:O	1:K:310:ARG:NH1	2.28	0.67
1:I:36:TRP:CE2	1:I:42:ALA:HA	2.30	0.67
1:P:24:LEU:HB2	1:P:161:TYR:HB3	1.77	0.67
1:M:24:LEU:HB2	1:M:161:TYR:HB3	1.77	0.67
1:M:217:LYS:HG2	1:M:218:PRO:HD2	1.76	0.67
1:M:42:ALA:O	1:M:310:ARG:NH1	2.28	0.67
1:O:336:ARG:HG2	1:O:336:ARG:NH1	2.09	0.67
1:J:278:ILE:HD12	1:J:278:ILE:N	2.10	0.67
1:H:77:ASP:C	1:H:78:LEU:HD23	2.15	0.67
1:M:77:ASP:C	1:M:78:LEU:HD23	2.15	0.67
1:P:673:ALA:HB1	1:P:674:PRO:HD2	1.75	0.67
1:I:3:ILE:HG13	1:I:4:THR:N	2.09	0.67
1:K:210:ARG:HH12	1:K:395:HIS:N	1.92	0.67
1:L:322:LEU:HD11	1:L:324:GLU:O	1.94	0.67
1:E:24:LEU:HB2	1:E:161:TYR:HB3	1.77	0.67
1:H:42:ALA:O	1:H:310:ARG:NH1	2.28	0.67
1:H:322:LEU:HD11	1:H:324:GLU:O	1.93	0.67
1:N:42:ALA:O	1:N:310:ARG:NH1	2.28	0.67
1:D:36:TRP:CE2	1:D:42:ALA:HA	2.30	0.67
1:G:336:ARG:NH1	1:G:336:ARG:HG2	2.09	0.67
1:L:278:ILE:HD12	1:L:278:ILE:N	2.10	0.67
1:D:129:VAL:HG23	1:D:182:ASN:ND2	2.08	0.67
1:B:856:TYR:HD2	1:B:864:MET:HE2	1.58	0.67
1:J:658:LEU:O	1:J:661:LYS:HD3	1.93	0.67
1:N:749:ILE:N	1:N:749:ILE:HD13	2.10	0.67
1:A:749:ILE:N	1:A:749:ILE:HD13	2.10	0.67
1:O:427:THR:HA	1:O:436:MET:HE2	1.75	0.67
1:F:1021:CME:CZ	1:F:1021:CME:HB3	2.21	0.67
1:L:42:ALA:O	1:L:310:ARG:NH1	2.28	0.67
1:H:24:LEU:HB2	1:H:161:TYR:HB3	1.77	0.67
1:M:36:TRP:CE2	1:M:42:ALA:HA	2.30	0.67
1:E:42:ALA:O	1:E:310:ARG:NH1	2.28	0.67
1:D:217:LYS:HG2	1:D:218:PRO:HD2	1.76	0.67
1:P:77:ASP:C	1:P:78:LEU:HD23	2.15	0.67
1:G:77:ASP:C	1:G:78:LEU:HD23	2.15	0.67
1:L:77:ASP:C	1:L:78:LEU:HD23	2.15	0.67
1:O:77:ASP:C	1:O:78:LEU:HD23	2.15	0.67
1:A:77:ASP:C	1:A:78:LEU:HD23	2.15	0.67
1:O:377:LEU:HD22	1:O:708:TRP:HA	1.77	0.67
1:G:377:LEU:HD22	1:G:708:TRP:HA	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:43:ARG:NH1	1:E:43:ARG:HG2	1.94	0.67
1:E:1021:CME:HB3	1:E:1021:CME:CZ	2.21	0.67
1:A:210:ARG:HH12	1:A:395:HIS:N	1.92	0.67
1:M:210:ARG:HH12	1:M:395:HIS:N	1.92	0.67
1:C:322:LEU:HD11	1:C:324:GLU:O	1.94	0.67
1:L:36:TRP:CE2	1:L:42:ALA:HA	2.30	0.67
1:F:36:TRP:CE2	1:F:42:ALA:HA	2.30	0.67
1:N:36:TRP:CE2	1:N:42:ALA:HA	2.30	0.67
1:A:24:LEU:HB2	1:A:161:TYR:HB3	1.77	0.67
1:L:336:ARG:HG2	1:L:336:ARG:NH1	2.09	0.67
1:I:278:ILE:N	1:I:278:ILE:HD12	2.10	0.67
1:I:77:ASP:C	1:I:78:LEU:HD23	2.15	0.67
1:E:77:ASP:C	1:E:78:LEU:HD23	2.15	0.67
1:F:77:ASP:C	1:F:78:LEU:HD23	2.15	0.67
1:K:856:TYR:HD2	1:K:864:MET:HE2	1.60	0.67
1:K:749:ILE:N	1:K:749:ILE:HD13	2.10	0.67
1:L:740:LEU:HD12	1:L:741:THR:N	2.06	0.67
1:B:210:ARG:HH12	1:B:395:HIS:N	1.92	0.67
1:I:217:LYS:HG2	1:I:218:PRO:HD2	1.76	0.67
1:B:36:TRP:CE2	1:B:42:ALA:HA	2.30	0.67
1:E:36:TRP:CE2	1:E:42:ALA:HA	2.30	0.67
1:A:36:TRP:CE2	1:A:42:ALA:HA	2.30	0.67
1:I:24:LEU:HB2	1:I:161:TYR:HB3	1.77	0.67
1:C:77:ASP:C	1:C:78:LEU:HD23	2.15	0.67
1:N:77:ASP:C	1:N:78:LEU:HD23	2.15	0.67
1:H:377:LEU:HD22	1:H:708:TRP:HA	1.77	0.67
1:L:861:SER:OG	1:L:863:GLN:HG3	1.93	0.67
1:B:377:LEU:HD22	1:B:708:TRP:HA	1.77	0.67
1:D:433:LEU:HB3	1:D:434:PRO:HD3	1.77	0.67
1:F:117:GLU:OE1	1:F:117:GLU:N	2.27	0.67
1:I:59:ARG:NH2	1:I:81:ALA:O	2.28	0.67
1:P:377:LEU:HD22	1:P:708:TRP:HA	1.77	0.67
1:F:43:ARG:HG2	1:F:43:ARG:NH1	1.94	0.66
1:C:749:ILE:HD13	1:C:749:ILE:N	2.10	0.66
1:M:427:THR:HA	1:M:436:MET:HE2	1.77	0.66
1:H:433:LEU:HB3	1:H:434:PRO:HD3	1.77	0.66
1:L:24:LEU:HB2	1:L:161:TYR:HB3	1.77	0.66
1:J:24:LEU:HB2	1:J:161:TYR:HB3	1.77	0.66
1:F:42:ALA:O	1:F:310:ARG:NH1	2.28	0.66
1:K:278:ILE:HD12	1:K:278:ILE:N	2.10	0.66
1:E:278:ILE:HD12	1:E:278:ILE:N	2.10	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:77:ASP:C	1:B:78:LEU:HD23	2.15	0.66
1:B:287:ASP:OD2	1:C:425:ARG:NH2	2.28	0.66
1:M:939:CYS:HA	1:M:956:GLN:HB3	1.78	0.66
1:C:673:ALA:HB1	1:C:674:PRO:HD2	1.75	0.66
1:F:682:LEU:CD2	1:F:683:PRO:HD2	2.26	0.66
1:N:682:LEU:CD2	1:N:683:PRO:HD2	2.26	0.66
1:O:36:TRP:CE2	1:O:42:ALA:HA	2.30	0.66
1:J:42:ALA:O	1:J:310:ARG:NH1	2.28	0.66
1:D:24:LEU:HB2	1:D:161:TYR:HB3	1.77	0.66
1:L:217:LYS:HG2	1:L:218:PRO:HD2	1.76	0.66
1:G:36:TRP:CE2	1:G:42:ALA:HA	2.30	0.66
1:A:42:ALA:O	1:A:310:ARG:NH1	2.28	0.66
1:P:278:ILE:HD12	1:P:278:ILE:N	2.10	0.66
1:P:117:GLU:N	1:P:117:GLU:OE1	2.27	0.66
1:A:59:ARG:NH2	1:A:81:ALA:O	2.28	0.66
1:H:673:ALA:HB1	1:H:674:PRO:HD2	1.75	0.66
1:K:377:LEU:HD22	1:K:708:TRP:HA	1.77	0.66
1:E:433:LEU:HB3	1:E:434:PRO:HD3	1.77	0.66
1:P:114:VAL:HG13	1:P:115:PRO:HD2	1.78	0.66
1:E:210:ARG:HH12	1:E:395:HIS:N	1.92	0.66
1:J:36:TRP:CE2	1:J:42:ALA:HA	2.30	0.66
1:H:36:TRP:CE2	1:H:42:ALA:HA	2.30	0.66
1:N:282:ARG:HG3	1:O:423:MET:HB2	1.77	0.66
1:H:278:ILE:HD12	1:H:278:ILE:N	2.10	0.66
1:A:425:ARG:HH22	1:D:287:ASP:CG	1.99	0.66
1:D:917:ARG:NH2	1:D:943:GLU:OE1	2.29	0.66
1:N:377:LEU:HD22	1:N:708:TRP:HA	1.77	0.66
1:F:377:LEU:HD22	1:F:708:TRP:HA	1.77	0.66
1:E:939:CYS:HA	1:E:956:GLN:HB3	1.78	0.66
1:C:939:CYS:HA	1:C:956:GLN:HB3	1.77	0.66
1:E:427:THR:HA	1:E:436:MET:HE2	1.77	0.66
1:J:433:LEU:HB3	1:J:434:PRO:HD3	1.77	0.66
1:P:433:LEU:HB3	1:P:434:PRO:HD3	1.77	0.66
1:C:42:ALA:O	1:C:310:ARG:NH1	2.28	0.66
1:J:77:ASP:C	1:J:78:LEU:HD23	2.15	0.66
1:M:30:HIS:HB2	1:M:31:PRO:HD2	1.78	0.66
1:M:377:LEU:HD22	1:M:708:TRP:HA	1.77	0.66
1:H:59:ARG:NH2	1:H:81:ALA:O	2.28	0.66
1:K:454:ILE:HG13	1:K:455:ILE:HG13	1.78	0.66
1:K:30:HIS:HB2	1:K:31:PRO:HD2	1.78	0.66
1:G:749:ILE:HD13	1:G:749:ILE:N	2.10	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:46:ARG:HG3	1:L:46:ARG:NH1	2.02	0.66
1:C:114:VAL:HG13	1:C:115:PRO:HD2	1.78	0.66
1:N:114:VAL:HG13	1:N:115:PRO:HD2	1.78	0.66
1:H:114:VAL:HG13	1:H:115:PRO:HD2	1.78	0.66
1:K:682:LEU:CD2	1:K:683:PRO:HD2	2.26	0.66
1:P:42:ALA:O	1:P:310:ARG:NH1	2.28	0.66
1:B:217:LYS:HG2	1:B:218:PRO:HD2	1.76	0.66
1:A:682:LEU:CD2	1:A:683:PRO:HD2	2.26	0.66
1:N:24:LEU:HB2	1:N:161:TYR:HB3	1.77	0.66
1:M:278:ILE:HD12	1:M:278:ILE:N	2.10	0.66
1:L:59:ARG:NH2	1:L:81:ALA:O	2.28	0.66
1:A:377:LEU:HD22	1:A:708:TRP:HA	1.77	0.66
1:I:454:ILE:HG13	1:I:455:ILE:HG13	1.78	0.66
1:J:377:LEU:HD22	1:J:708:TRP:HA	1.77	0.66
1:E:30:HIS:HB2	1:E:31:PRO:HD2	1.78	0.66
1:F:749:ILE:N	1:F:749:ILE:HD13	2.10	0.66
1:I:114:VAL:HG13	1:I:115:PRO:HD2	1.78	0.66
1:J:114:VAL:HG13	1:J:115:PRO:HD2	1.78	0.66
1:F:114:VAL:HG13	1:F:115:PRO:HD2	1.78	0.66
1:P:682:LEU:CD2	1:P:683:PRO:HD2	2.26	0.66
1:H:682:LEU:CD2	1:H:683:PRO:HD2	2.26	0.66
1:B:42:ALA:O	1:B:310:ARG:NH1	2.28	0.66
1:F:24:LEU:HB2	1:F:161:TYR:HB3	1.77	0.66
1:G:293:LEU:HD23	1:G:293:LEU:N	2.07	0.66
1:F:336:ARG:HG2	1:F:336:ARG:NH1	2.09	0.66
1:M:59:ARG:NH2	1:M:81:ALA:O	2.29	0.66
1:N:917:ARG:NH2	1:N:943:GLU:OE1	2.29	0.66
1:C:30:HIS:HB2	1:C:31:PRO:HD2	1.78	0.66
1:I:917:ARG:NH2	1:I:943:GLU:OE1	2.29	0.66
1:H:917:ARG:NH2	1:H:943:GLU:OE1	2.29	0.66
1:J:30:HIS:HB2	1:J:31:PRO:HD2	1.78	0.66
1:I:117:GLU:N	1:I:117:GLU:OE1	2.27	0.66
1:C:59:ARG:NH2	1:C:81:ALA:O	2.28	0.66
1:O:917:ARG:NH2	1:O:943:GLU:OE1	2.29	0.66
1:I:745:MET:HA	1:I:745:MET:HE2	1.78	0.66
1:B:749:ILE:N	1:B:749:ILE:HD13	2.10	0.66
1:N:360:HIS:HE1	1:N:362:LEU:HB2	1.61	0.66
1:K:114:VAL:HG13	1:K:115:PRO:HD2	1.78	0.66
1:M:433:LEU:HB3	1:M:434:PRO:HD3	1.77	0.66
1:G:210:ARG:HH12	1:G:395:HIS:N	1.92	0.66
1:C:210:ARG:HH12	1:C:395:HIS:N	1.92	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:682:LEU:CD2	1:C:683:PRO:HD2	2.26	0.66
1:I:42:ALA:O	1:I:310:ARG:NH1	2.28	0.66
1:G:24:LEU:HB2	1:G:161:TYR:HB3	1.77	0.66
1:N:282:ARG:HD3	1:O:418:HIS:O	1.96	0.66
1:D:77:ASP:C	1:D:78:LEU:HD23	2.15	0.66
1:L:30:HIS:HB2	1:L:31:PRO:HD2	1.78	0.66
1:J:939:CYS:HA	1:J:956:GLN:HB3	1.77	0.66
1:J:59:ARG:NH2	1:J:81:ALA:O	2.28	0.66
1:P:917:ARG:NH2	1:P:943:GLU:OE1	2.29	0.66
1:J:917:ARG:NH2	1:J:943:GLU:OE1	2.29	0.66
1:J:3:ILE:HG13	1:J:4:THR:N	2.09	0.66
1:I:749:ILE:N	1:I:749:ILE:HD13	2.10	0.66
1:K:36:TRP:CE2	1:K:42:ALA:HA	2.30	0.66
1:O:24:LEU:HB2	1:O:161:TYR:HB3	1.77	0.66
1:M:336:ARG:NH1	1:M:336:ARG:HG2	2.09	0.66
1:B:336:ARG:NH1	1:B:336:ARG:HG2	2.09	0.66
1:M:454:ILE:HG13	1:M:455:ILE:HG13	1.78	0.66
1:K:59:ARG:NH2	1:K:81:ALA:O	2.28	0.66
1:B:454:ILE:HG13	1:B:455:ILE:HG13	1.78	0.66
1:C:917:ARG:NH2	1:C:943:GLU:OE1	2.29	0.66
1:P:59:ARG:NH2	1:P:81:ALA:O	2.29	0.66
1:D:59:ARG:NH2	1:D:81:ALA:O	2.28	0.66
1:E:377:LEU:HD22	1:E:708:TRP:HA	1.77	0.66
1:L:454:ILE:HG13	1:L:455:ILE:HG13	1.78	0.66
1:L:749:ILE:HD13	1:L:749:ILE:N	2.10	0.66
1:M:749:ILE:N	1:M:749:ILE:HD13	2.10	0.66
1:O:360:HIS:HE1	1:O:362:LEU:HB2	1.61	0.66
1:M:1021:CME:HB3	1:M:1021:CME:CZ	2.21	0.66
1:K:433:LEU:HB3	1:K:434:PRO:HD3	1.77	0.66
1:J:114:VAL:CG1	1:J:191:TRP:HB2	2.26	0.66
1:O:682:LEU:CD2	1:O:683:PRO:HD2	2.26	0.66
1:L:210:ARG:HH12	1:L:395:HIS:N	1.92	0.66
1:C:217:LYS:HG2	1:C:218:PRO:HD2	1.76	0.66
1:B:24:LEU:HB2	1:B:161:TYR:HB3	1.77	0.66
1:D:42:ALA:O	1:D:310:ARG:NH1	2.28	0.66
1:A:856:TYR:CD2	1:A:864:MET:HE2	2.31	0.66
1:F:59:ARG:NH2	1:F:81:ALA:O	2.28	0.66
1:C:3:ILE:HG13	1:C:4:THR:N	2.09	0.66
1:I:360:HIS:HE1	1:I:362:LEU:HB2	1.61	0.66
1:G:360:HIS:HE1	1:G:362:LEU:HB2	1.61	0.66
1:J:1021:CME:CZ	1:J:1021:CME:HB3	2.21	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:682:LEU:CD2	1:L:683:PRO:HD2	2.26	0.66
1:B:682:LEU:CD2	1:B:683:PRO:HD2	2.26	0.66
1:D:682:LEU:CD2	1:D:683:PRO:HD2	2.26	0.66
1:O:114:VAL:HG13	1:O:115:PRO:HD2	1.78	0.66
1:K:217:LYS:HG2	1:K:218:PRO:HD2	1.76	0.66
1:F:217:LYS:HG2	1:F:218:PRO:HD2	1.76	0.66
1:N:217:LYS:HG2	1:N:218:PRO:HD2	1.76	0.66
1:K:336:ARG:HG2	1:K:336:ARG:NH1	2.09	0.66
1:A:433:LEU:HB3	1:A:434:PRO:HD3	1.77	0.66
1:P:246:MET:HG2	1:P:274:PHE:CE2	2.31	0.66
1:E:246:MET:HG2	1:E:274:PHE:CE2	2.31	0.66
1:E:454:ILE:HG13	1:E:455:ILE:HG13	1.78	0.66
1:J:423:MET:HB2	1:K:282:ARG:HG3	1.77	0.66
1:I:939:CYS:HA	1:I:956:GLN:HB3	1.78	0.66
1:B:433:LEU:HB3	1:B:434:PRO:HD3	1.77	0.65
1:O:745:MET:HE2	1:O:745:MET:HA	1.77	0.65
1:G:682:LEU:CD2	1:G:683:PRO:HD2	2.26	0.65
1:G:114:VAL:HG13	1:G:115:PRO:HD2	1.78	0.65
1:N:336:ARG:NH1	1:N:336:ARG:HG2	2.09	0.65
1:N:246:MET:HG2	1:N:274:PHE:CE2	2.31	0.65
1:H:246:MET:HG2	1:H:274:PHE:CE2	2.31	0.65
1:E:59:ARG:NH2	1:E:81:ALA:O	2.29	0.65
1:G:246:MET:HG2	1:G:274:PHE:CE2	2.31	0.65
1:I:246:MET:HG2	1:I:274:PHE:CE2	2.31	0.65
1:O:246:MET:HG2	1:O:274:PHE:CE2	2.31	0.65
1:M:753:ASN:N	1:M:753:ASN:OD1	2.30	0.65
1:I:377:LEU:HD22	1:I:708:TRP:HA	1.77	0.65
1:N:59:ARG:NH2	1:N:81:ALA:O	2.29	0.65
1:C:433:LEU:HB3	1:C:434:PRO:HD3	1.77	0.65
1:K:1021:CME:CZ	1:K:1021:CME:HB3	2.21	0.65
1:L:114:VAL:CG1	1:L:191:TRP:HB2	2.26	0.65
1:H:210:ARG:HH12	1:H:395:HIS:N	1.92	0.65
1:J:217:LYS:HG2	1:J:218:PRO:HD2	1.76	0.65
1:I:433:LEU:HB3	1:I:434:PRO:HD3	1.77	0.65
1:A:336:ARG:NH1	1:A:336:ARG:HG2	2.09	0.65
1:L:917:ARG:NH2	1:L:943:GLU:OE1	2.29	0.65
1:A:454:ILE:HG13	1:A:455:ILE:HG13	1.78	0.65
1:H:117:GLU:OE1	1:H:117:GLU:N	2.27	0.65
1:F:246:MET:HG2	1:F:274:PHE:CE2	2.31	0.65
1:L:939:CYS:HA	1:L:956:GLN:HB3	1.78	0.65
1:P:114:VAL:CG1	1:P:191:TRP:HB2	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:114:VAL:CG1	1:H:191:TRP:HB2	2.26	0.65
1:D:114:VAL:CG1	1:D:191:TRP:HB2	2.26	0.65
1:K:24:LEU:HB2	1:K:161:TYR:HB3	1.77	0.65
1:B:703:PRO:O	1:B:711:ALA:HB1	1.97	0.65
1:H:703:PRO:O	1:H:711:ALA:HB1	1.97	0.65
1:B:246:MET:HG2	1:B:274:PHE:CE2	2.31	0.65
1:G:917:ARG:NH2	1:G:943:GLU:OE1	2.29	0.65
1:G:59:ARG:NH2	1:G:81:ALA:O	2.29	0.65
1:G:427:THR:HA	1:G:436:MET:HE2	1.78	0.65
1:N:745:MET:HA	1:N:745:MET:HE2	1.78	0.65
1:E:745:MET:HA	1:E:745:MET:HE2	1.78	0.65
1:O:42:ALA:O	1:O:310:ARG:NH1	2.28	0.65
1:D:336:ARG:NH1	1:D:336:ARG:HG2	2.09	0.65
1:D:703:PRO:O	1:D:711:ALA:HB1	1.97	0.65
1:I:703:PRO:O	1:I:711:ALA:HB1	1.97	0.65
1:N:703:PRO:O	1:N:711:ALA:HB1	1.97	0.65
1:F:454:ILE:HG13	1:F:455:ILE:HG13	1.78	0.65
1:F:917:ARG:NH2	1:F:943:GLU:OE1	2.29	0.65
1:C:232:ASN:ND2	1:C:234:ASP:OD1	2.30	0.65
1:L:3:ILE:HG13	1:L:4:THR:N	2.09	0.65
1:J:237:ARG:HH11	1:J:237:ARG:CB	2.10	0.65
1:E:237:ARG:CB	1:E:237:ARG:HH11	2.10	0.65
1:N:939:CYS:HA	1:N:956:GLN:HB3	1.78	0.65
1:D:117:GLU:N	1:D:117:GLU:OE1	2.27	0.65
1:A:753:ASN:OD1	1:A:753:ASN:N	2.30	0.65
1:K:246:MET:HG2	1:K:274:PHE:CE2	2.31	0.65
1:N:232:ASN:ND2	1:N:234:ASP:OD1	2.30	0.65
1:O:59:ARG:NH2	1:O:81:ALA:O	2.29	0.65
1:G:433:LEU:HB3	1:G:434:PRO:HD3	1.77	0.65
1:P:360:HIS:HE1	1:P:362:LEU:HB2	1.61	0.65
1:A:114:VAL:CG1	1:A:191:TRP:HB2	2.26	0.65
1:B:114:VAL:HG13	1:B:115:PRO:HD2	1.78	0.65
1:C:856:TYR:CD2	1:C:864:MET:HE2	2.30	0.65
1:O:217:LYS:HG2	1:O:218:PRO:HD2	1.76	0.65
1:O:433:LEU:HB3	1:O:434:PRO:HD3	1.77	0.65
1:E:917:ARG:NH2	1:E:943:GLU:OE1	2.29	0.65
1:M:917:ARG:NH2	1:M:943:GLU:OE1	2.29	0.65
1:N:454:ILE:HG13	1:N:455:ILE:HG13	1.78	0.65
1:P:30:HIS:HB2	1:P:31:PRO:HD2	1.78	0.65
1:F:939:CYS:HA	1:F:956:GLN:HB3	1.77	0.65
1:C:454:ILE:HG13	1:C:455:ILE:HG13	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:749:ILE:N	1:J:749:ILE:HD13	2.10	0.65
1:C:114:VAL:CG1	1:C:191:TRP:HB2	2.26	0.65
1:E:682:LEU:CD2	1:E:683:PRO:HD2	2.26	0.65
1:G:42:ALA:O	1:G:310:ARG:NH1	2.28	0.65
1:C:237:ARG:CB	1:C:237:ARG:HH11	2.10	0.65
1:G:3:ILE:HG13	1:G:4:THR:N	2.09	0.65
1:E:3:ILE:HG13	1:E:4:THR:N	2.09	0.65
1:F:282:ARG:HG3	1:G:423:MET:HB2	1.79	0.65
1:N:30:HIS:HB2	1:N:31:PRO:HD2	1.78	0.65
1:B:917:ARG:NH2	1:B:943:GLU:OE1	2.29	0.65
1:P:347:LYS:HB3	1:P:348:PRO:HD2	1.79	0.65
1:A:800:ARG:NH1	1:A:800:ARG:HB3	2.12	0.65
1:N:800:ARG:HB3	1:N:800:ARG:NH1	2.12	0.65
1:B:800:ARG:HB3	1:B:800:ARG:NH1	2.12	0.65
1:K:939:CYS:HA	1:K:956:GLN:HB3	1.77	0.65
1:L:237:ARG:HH11	1:L:237:ARG:CB	2.10	0.65
1:M:360:HIS:HE1	1:M:362:LEU:HB2	1.61	0.65
1:I:114:VAL:CG1	1:I:191:TRP:HB2	2.26	0.65
1:A:114:VAL:HG13	1:A:115:PRO:HD2	1.78	0.65
1:M:682:LEU:CD2	1:M:683:PRO:HD2	2.26	0.65
1:J:210:ARG:HH12	1:J:395:HIS:N	1.92	0.65
1:J:682:LEU:CD2	1:J:683:PRO:HD2	2.26	0.65
1:G:114:VAL:CG1	1:G:191:TRP:HB2	2.26	0.65
1:G:217:LYS:HG2	1:G:218:PRO:HD2	1.77	0.65
1:D:293:LEU:HD23	1:D:293:LEU:N	2.07	0.65
1:N:856:TYR:CD2	1:N:864:MET:HE2	2.31	0.65
1:B:59:ARG:NH2	1:B:81:ALA:O	2.29	0.65
1:H:347:LYS:HB3	1:H:348:PRO:HD2	1.79	0.65
1:C:246:MET:HG2	1:C:274:PHE:CE2	2.31	0.65
1:D:237:ARG:HH11	1:D:237:ARG:CB	2.10	0.65
1:H:454:ILE:HG13	1:H:455:ILE:HG13	1.78	0.65
1:D:246:MET:HG2	1:D:274:PHE:CE2	2.31	0.65
1:D:454:ILE:HG13	1:D:455:ILE:HG13	1.78	0.65
1:G:800:ARG:NH1	1:G:800:ARG:HB3	2.12	0.65
1:O:3:ILE:HG13	1:O:4:THR:N	2.09	0.65
1:D:30:HIS:HB2	1:D:31:PRO:HD2	1.78	0.65
1:B:939:CYS:HA	1:B:956:GLN:HB3	1.78	0.65
1:O:749:ILE:HD13	1:O:749:ILE:N	2.10	0.65
1:E:114:VAL:CG1	1:E:191:TRP:HB2	2.26	0.65
1:E:114:VAL:HG13	1:E:115:PRO:HD2	1.78	0.65
1:D:114:VAL:HG13	1:D:115:PRO:HD2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:336:ARG:HG2	1:I:336:ARG:NH1	2.09	0.65
1:A:703:PRO:O	1:A:711:ALA:HB1	1.97	0.65
1:O:703:PRO:O	1:O:711:ALA:HB1	1.97	0.65
1:L:703:PRO:O	1:L:711:ALA:HB1	1.97	0.65
1:K:703:PRO:O	1:K:711:ALA:HB1	1.97	0.65
1:E:232:ASN:ND2	1:E:234:ASP:OD1	2.30	0.65
1:D:232:ASN:ND2	1:D:234:ASP:OD1	2.30	0.65
1:F:30:HIS:HB2	1:F:31:PRO:HD2	1.78	0.65
1:P:454:ILE:HG13	1:P:455:ILE:HG13	1.78	0.65
1:K:347:LYS:HB3	1:K:348:PRO:HD2	1.79	0.65
1:B:30:HIS:HB2	1:B:31:PRO:HD2	1.78	0.65
1:A:917:ARG:NH2	1:A:943:GLU:OE1	2.29	0.65
1:J:800:ARG:NH1	1:J:800:ARG:HB3	2.12	0.65
1:P:3:ILE:HG13	1:P:4:THR:N	2.09	0.65
1:A:246:MET:HG2	1:A:274:PHE:CE2	2.31	0.65
1:H:427:THR:HA	1:H:436:MET:HE2	1.77	0.65
1:F:433:LEU:HB3	1:F:434:PRO:HD3	1.77	0.65
1:F:360:HIS:HE1	1:F:362:LEU:HB2	1.61	0.65
1:I:682:LEU:CD2	1:I:683:PRO:HD2	2.26	0.65
1:M:114:VAL:CG1	1:M:191:TRP:HB2	2.26	0.65
1:O:114:VAL:CG1	1:O:191:TRP:HB2	2.26	0.65
1:L:433:LEU:HB3	1:L:434:PRO:HD3	1.77	0.65
1:G:939:CYS:HA	1:G:956:GLN:HB3	1.77	0.65
1:G:30:HIS:HB2	1:G:31:PRO:HD2	1.78	0.65
1:H:30:HIS:HB2	1:H:31:PRO:HD2	1.78	0.65
1:J:246:MET:HG2	1:J:274:PHE:CE2	2.31	0.65
1:K:237:ARG:CB	1:K:237:ARG:HH11	2.10	0.65
1:I:800:ARG:NH1	1:I:800:ARG:HB3	2.12	0.65
1:A:237:ARG:HH11	1:A:237:ARG:CB	2.10	0.65
1:H:232:ASN:ND2	1:H:234:ASP:OD1	2.30	0.65
1:B:360:HIS:HE1	1:B:362:LEU:HB2	1.61	0.65
1:H:360:HIS:HE1	1:H:362:LEU:HB2	1.61	0.65
1:M:114:VAL:HG13	1:M:115:PRO:HD2	1.78	0.65
1:I:210:ARG:HH12	1:I:395:HIS:N	1.92	0.65
1:O:210:ARG:HH12	1:O:395:HIS:N	1.92	0.65
1:J:217:LYS:HE3	1:J:324:GLU:OE1	1.98	0.65
1:L:36:TRP:C	1:L:37:ARG:HD3	2.18	0.65
1:P:703:PRO:O	1:P:711:ALA:HB1	1.97	0.65
1:J:703:PRO:O	1:J:711:ALA:HB1	1.97	0.65
1:G:703:PRO:O	1:G:711:ALA:HB1	1.97	0.65
1:N:237:ARG:HH11	1:N:237:ARG:CB	2.10	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:377:LEU:HD22	1:C:708:TRP:HA	1.77	0.65
1:P:232:ASN:ND2	1:P:234:ASP:OD1	2.30	0.65
1:J:454:ILE:HG13	1:J:455:ILE:HG13	1.78	0.65
1:O:30:HIS:HB2	1:O:31:PRO:HD2	1.78	0.65
1:I:30:HIS:HB2	1:I:31:PRO:HD2	1.78	0.65
1:F:800:ARG:HB3	1:F:800:ARG:NH1	2.12	0.65
1:L:246:MET:HG2	1:L:274:PHE:CE2	2.31	0.65
1:O:939:CYS:HA	1:O:956:GLN:HB3	1.78	0.65
1:N:114:VAL:CG1	1:N:191:TRP:HB2	2.26	0.64
1:F:114:VAL:CG1	1:F:191:TRP:HB2	2.26	0.64
1:L:114:VAL:HG13	1:L:115:PRO:HD2	1.78	0.64
1:B:114:VAL:CG1	1:B:191:TRP:HB2	2.26	0.64
1:C:24:LEU:HB2	1:C:161:TYR:HB3	1.77	0.64
1:D:217:LYS:HE3	1:D:324:GLU:OE1	1.98	0.64
1:L:232:ASN:ND2	1:L:234:ASP:OD1	2.30	0.64
1:B:237:ARG:CB	1:B:237:ARG:HH11	2.10	0.64
1:K:917:ARG:NH2	1:K:943:GLU:OE1	2.29	0.64
1:E:759:ASN:OD1	1:E:761:GLN:N	2.30	0.64
1:D:939:CYS:HA	1:D:956:GLN:HB3	1.78	0.64
1:L:759:ASN:OD1	1:L:761:GLN:N	2.30	0.64
1:M:759:ASN:OD1	1:M:761:GLN:N	2.30	0.64
1:G:759:ASN:OD1	1:G:761:GLN:N	2.30	0.64
1:C:753:ASN:N	1:C:753:ASN:OD1	2.30	0.64
1:K:753:ASN:N	1:K:753:ASN:OD1	2.30	0.64
1:H:800:ARG:NH1	1:H:800:ARG:HB3	2.12	0.64
1:L:377:LEU:HD22	1:L:708:TRP:HA	1.77	0.64
1:P:939:CYS:HA	1:P:956:GLN:HB3	1.77	0.64
1:B:745:MET:HE2	1:B:745:MET:HA	1.79	0.64
1:B:427:THR:HA	1:B:436:MET:HE2	1.80	0.64
1:K:114:VAL:CG1	1:K:191:TRP:HB2	2.26	0.64
1:K:36:TRP:C	1:K:37:ARG:HD3	2.18	0.64
1:M:419:GLY:HA2	1:P:282:ARG:HH11	1.63	0.64
1:F:237:ARG:CB	1:F:237:ARG:HH11	2.10	0.64
1:B:347:LYS:HB3	1:B:348:PRO:HD2	1.79	0.64
1:M:3:ILE:HG13	1:M:4:THR:N	2.09	0.64
1:M:800:ARG:NH1	1:M:800:ARG:HB3	2.12	0.64
1:F:753:ASN:OD1	1:F:753:ASN:N	2.30	0.64
1:O:759:ASN:OD1	1:O:761:GLN:N	2.30	0.64
1:D:745:MET:HE2	1:D:745:MET:HA	1.78	0.64
1:N:1021:CME:HB3	1:N:1021:CME:CZ	2.21	0.64
1:C:36:TRP:C	1:C:37:ARG:HD3	2.18	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:433:LEU:HB3	1:N:434:PRO:HD3	1.78	0.64
1:F:759:ASN:OD1	1:F:761:GLN:N	2.30	0.64
1:I:347:LYS:HB3	1:I:348:PRO:HD2	1.79	0.64
1:A:759:ASN:OD1	1:A:761:GLN:N	2.30	0.64
1:K:800:ARG:HB3	1:K:800:ARG:NH1	2.12	0.64
1:O:800:ARG:NH1	1:O:800:ARG:HB3	2.12	0.64
1:C:800:ARG:HB3	1:C:800:ARG:NH1	2.12	0.64
1:P:800:ARG:NH1	1:P:800:ARG:HB3	2.12	0.64
1:D:800:ARG:NH1	1:D:800:ARG:HB3	2.12	0.64
1:D:210:ARG:HH12	1:D:395:HIS:N	1.92	0.64
1:O:36:TRP:C	1:O:37:ARG:HD3	2.18	0.64
1:K:217:LYS:HE3	1:K:324:GLU:OE1	1.98	0.64
1:F:703:PRO:O	1:F:711:ALA:HB1	1.97	0.64
1:I:237:ARG:HH11	1:I:237:ARG:CB	2.10	0.64
1:G:454:ILE:HG13	1:G:455:ILE:HG13	1.78	0.64
1:N:759:ASN:OD1	1:N:761:GLN:N	2.30	0.64
1:O:454:ILE:HG13	1:O:455:ILE:HG13	1.78	0.64
1:L:800:ARG:NH1	1:L:800:ARG:HB3	2.12	0.64
1:M:237:ARG:HH11	1:M:237:ARG:CB	2.10	0.64
1:G:237:ARG:CB	1:G:237:ARG:HH11	2.10	0.64
1:B:3:ILE:HG13	1:B:4:THR:N	2.09	0.64
1:M:246:MET:HG2	1:M:274:PHE:CE2	2.31	0.64
1:C:759:ASN:OD1	1:C:761:GLN:N	2.30	0.64
1:M:437:SER:HB2	5:M:2257:HOH:O	1.98	0.64
1:A:36:TRP:C	1:A:37:ARG:HD3	2.18	0.64
1:N:282:ARG:HH11	1:O:419:GLY:HA2	1.61	0.64
1:N:377:LEU:CD2	1:N:708:TRP:HA	2.28	0.64
1:F:377:LEU:CD2	1:F:708:TRP:HA	2.28	0.64
1:J:232:ASN:ND2	1:J:234:ASP:OD1	2.30	0.64
1:H:237:ARG:CB	1:H:237:ARG:HH11	2.10	0.64
1:O:237:ARG:HH11	1:O:237:ARG:CB	2.10	0.64
1:H:939:CYS:HA	1:H:956:GLN:HB3	1.78	0.64
1:N:117:GLU:OE1	1:N:117:GLU:N	2.27	0.64
1:O:753:ASN:OD1	1:O:753:ASN:N	2.30	0.64
1:L:427:THR:HA	1:L:436:MET:HE2	1.80	0.64
1:N:894:ARG:HD3	1:N:919:ASP:OD2	1.98	0.64
1:O:217:LYS:HE3	1:O:324:GLU:OE1	1.98	0.64
1:B:217:LYS:HE3	1:B:324:GLU:OE1	1.98	0.64
1:H:36:TRP:C	1:H:37:ARG:HD3	2.18	0.64
1:M:217:LYS:HE3	1:M:324:GLU:OE1	1.98	0.64
1:D:856:TYR:CD2	1:D:864:MET:HE2	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:759:ASN:OD1	1:K:761:GLN:N	2.30	0.64
1:M:740:LEU:HD12	1:M:741:THR:N	2.06	0.64
1:P:36:TRP:C	1:P:37:ARG:HD3	2.18	0.64
1:I:437:SER:HB2	5:I:2258:HOH:O	1.97	0.64
1:M:36:TRP:C	1:M:37:ARG:HD3	2.18	0.64
1:G:377:LEU:CD2	1:G:708:TRP:HA	2.28	0.64
1:K:377:LEU:CD2	1:K:708:TRP:HA	2.28	0.64
1:A:232:ASN:ND2	1:A:234:ASP:OD1	2.30	0.64
1:I:232:ASN:ND2	1:I:234:ASP:OD1	2.30	0.64
1:A:347:LYS:HB3	1:A:348:PRO:HD2	1.79	0.64
1:H:3:ILE:HG13	1:H:4:THR:N	2.09	0.64
1:L:117:GLU:OE1	1:L:117:GLU:N	2.27	0.64
1:A:360:HIS:HE1	1:A:362:LEU:HB2	1.61	0.64
1:J:36:TRP:C	1:J:37:ARG:HD3	2.18	0.64
1:E:217:LYS:HE3	1:E:324:GLU:OE1	1.98	0.64
1:C:703:PRO:O	1:C:711:ALA:HB1	1.97	0.64
1:E:701:VAL:HG12	1:E:702:GLN:N	2.13	0.64
1:O:377:LEU:CD2	1:O:708:TRP:HA	2.28	0.64
1:B:377:LEU:CD2	1:B:708:TRP:HA	2.28	0.64
1:M:377:LEU:CD2	1:M:708:TRP:HA	2.28	0.64
1:E:377:LEU:CD2	1:E:708:TRP:HA	2.28	0.64
1:I:377:LEU:CD2	1:I:708:TRP:HA	2.28	0.64
1:P:237:ARG:CB	1:P:237:ARG:HH11	2.10	0.64
1:L:377:LEU:CD2	1:L:708:TRP:HA	2.28	0.64
1:C:347:LYS:HB3	1:C:348:PRO:HD2	1.79	0.64
1:J:347:LYS:HB3	1:J:348:PRO:HD2	1.79	0.64
1:D:377:LEU:HD22	1:D:708:TRP:HA	1.77	0.64
1:D:894:ARG:HD3	1:D:919:ASP:OD2	1.98	0.64
1:B:894:ARG:HD3	1:B:919:ASP:OD2	1.98	0.64
1:A:894:ARG:HD3	1:A:919:ASP:OD2	1.98	0.64
1:D:36:TRP:C	1:D:37:ARG:HD3	2.18	0.64
1:C:701:VAL:HG12	1:C:702:GLN:N	2.13	0.64
1:J:701:VAL:HG12	1:J:702:GLN:N	2.13	0.64
1:M:701:VAL:HG12	1:M:702:GLN:N	2.13	0.64
1:P:377:LEU:CD2	1:P:708:TRP:HA	2.28	0.64
1:B:117:GLU:OE1	1:B:117:GLU:N	2.27	0.64
1:E:800:ARG:HB3	1:E:800:ARG:NH1	2.12	0.64
1:I:753:ASN:OD1	1:I:753:ASN:N	2.30	0.64
1:P:753:ASN:N	1:P:753:ASN:OD1	2.30	0.64
1:G:117:GLU:N	1:G:117:GLU:OE1	2.27	0.64
1:J:894:ARG:HD3	1:J:919:ASP:OD2	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:128:ASN:HA	1:P:180:GLY:O	1.98	0.64
1:I:36:TRP:C	1:I:37:ARG:HD3	2.18	0.64
1:P:217:LYS:HE3	1:P:324:GLU:OE1	1.98	0.64
1:C:217:LYS:HE3	1:C:324:GLU:OE1	1.98	0.64
1:G:217:LYS:HE3	1:G:324:GLU:OE1	1.98	0.64
1:E:703:PRO:O	1:E:711:ALA:HB1	1.97	0.64
1:K:701:VAL:HG12	1:K:702:GLN:N	2.13	0.64
1:A:30:HIS:HB2	1:A:31:PRO:HD2	1.78	0.64
1:A:939:CYS:HA	1:A:956:GLN:HB3	1.77	0.64
1:O:117:GLU:OE1	1:O:117:GLU:N	2.27	0.64
1:C:894:ARG:NH1	1:C:919:ASP:OD2	2.30	0.63
1:F:36:TRP:C	1:F:37:ARG:HD3	2.18	0.63
1:O:856:TYR:CD2	1:O:864:MET:HE2	2.32	0.63
1:M:703:PRO:O	1:M:711:ALA:HB1	1.97	0.63
1:P:336:ARG:NH1	1:P:336:ARG:HG2	2.09	0.63
1:H:377:LEU:CD2	1:H:708:TRP:HA	2.28	0.63
1:D:377:LEU:CD2	1:D:708:TRP:HA	2.28	0.63
1:H:753:ASN:N	1:H:753:ASN:OD1	2.30	0.63
1:K:902:PRO:O	1:K:938:ARG:NH1	2.32	0.63
1:L:347:LYS:HB3	1:L:348:PRO:HD2	1.79	0.63
1:D:43:ARG:HG2	1:D:43:ARG:NH1	1.94	0.63
1:K:894:ARG:HD3	1:K:919:ASP:OD2	1.98	0.63
1:P:894:ARG:NH1	1:P:919:ASP:OD2	2.30	0.63
1:H:217:LYS:HE3	1:H:324:GLU:OE1	1.98	0.63
1:F:217:LYS:HE3	1:F:324:GLU:OE1	1.98	0.63
1:A:701:VAL:HG12	1:A:702:GLN:N	2.13	0.63
1:D:701:VAL:HG12	1:D:702:GLN:N	2.13	0.63
1:J:377:LEU:CD2	1:J:708:TRP:HA	2.28	0.63
1:M:232:ASN:ND2	1:M:234:ASP:OD1	2.30	0.63
1:G:347:LYS:HB3	1:G:348:PRO:HD2	1.79	0.63
1:F:568:TRP:HE1	1:F:604:ASN:HD22	1.47	0.63
1:N:945:ASN:OD1	1:N:950:GLN:NE2	2.30	0.63
1:H:894:ARG:HD3	1:H:919:ASP:OD2	1.98	0.63
1:G:894:ARG:HD3	1:G:919:ASP:OD2	1.98	0.63
1:H:128:ASN:HA	1:H:180:GLY:O	1.98	0.63
1:N:128:ASN:HA	1:N:180:GLY:O	1.99	0.63
1:E:36:TRP:C	1:E:37:ARG:HD3	2.18	0.63
1:K:232:ASN:ND2	1:K:234:ASP:OD1	2.30	0.63
1:O:347:LYS:HB3	1:O:348:PRO:HD2	1.79	0.63
1:N:568:TRP:HE1	1:N:604:ASN:HD22	1.47	0.63
1:I:759:ASN:OD1	1:I:761:GLN:N	2.30	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:347:LYS:HB3	1:M:348:PRO:HD2	1.79	0.63
1:F:745:MET:HA	1:F:745:MET:HE2	1.81	0.63
1:I:427:THR:HA	1:I:436:MET:HE2	1.78	0.63
1:P:894:ARG:HD3	1:P:919:ASP:OD2	1.98	0.63
1:A:128:ASN:HA	1:A:180:GLY:O	1.98	0.63
1:B:36:TRP:C	1:B:37:ARG:HD3	2.18	0.63
1:N:36:TRP:C	1:N:37:ARG:HD3	2.18	0.63
1:O:917:ARG:HH22	1:O:943:GLU:CD	2.02	0.63
1:M:902:PRO:O	1:M:938:ARG:NH1	2.31	0.63
1:N:902:PRO:O	1:N:938:ARG:NH1	2.31	0.63
1:P:902:PRO:O	1:P:938:ARG:NH1	2.31	0.63
1:K:128:ASN:HA	1:K:180:GLY:O	1.98	0.63
1:C:128:ASN:HA	1:C:180:GLY:O	1.98	0.63
1:I:217:LYS:HE3	1:I:324:GLU:OE1	1.98	0.63
1:N:217:LYS:HE3	1:N:324:GLU:OE1	1.98	0.63
1:I:856:TYR:CD2	1:I:864:MET:HE2	2.33	0.63
1:P:856:TYR:CD2	1:P:864:MET:HE2	2.33	0.63
1:A:917:ARG:HH22	1:A:943:GLU:CD	2.02	0.63
1:F:423:MET:HB2	1:G:282:ARG:HG3	1.80	0.63
1:B:282:ARG:HG3	1:C:423:MET:HB2	1.80	0.63
1:A:568:TRP:HE1	1:A:604:ASN:HD22	1.47	0.63
1:D:902:PRO:O	1:D:938:ARG:NH1	2.32	0.63
1:A:579:ASP:CG	1:A:583:ASN:HB2	2.19	0.63
1:J:579:ASP:CG	1:J:583:ASN:HB2	2.19	0.63
1:F:579:ASP:CG	1:F:583:ASN:HB2	2.19	0.63
1:E:894:ARG:HD3	1:E:919:ASP:OD2	1.98	0.63
1:M:894:ARG:NH1	1:M:919:ASP:OD2	2.30	0.63
1:I:894:ARG:HD3	1:I:919:ASP:OD2	1.98	0.63
1:L:128:ASN:HA	1:L:180:GLY:O	1.98	0.63
1:E:128:ASN:HA	1:E:180:GLY:O	1.99	0.63
1:B:395:HIS:ND1	1:B:396:PRO:HD2	2.14	0.63
1:J:37:ARG:HG3	1:J:37:ARG:HH11	1.64	0.63
1:I:701:VAL:HG12	1:I:702:GLN:N	2.13	0.63
1:K:30:HIS:ND1	1:K:31:PRO:O	2.26	0.63
1:L:917:ARG:HH22	1:L:943:GLU:CD	2.02	0.63
1:J:759:ASN:OD1	1:J:761:GLN:N	2.30	0.63
1:C:579:ASP:CG	1:C:583:ASN:HB2	2.19	0.63
1:E:902:PRO:O	1:E:938:ARG:NH1	2.32	0.63
1:J:18:ASN:HD22	1:J:21:VAL:HG23	1.64	0.63
1:N:579:ASP:CG	1:N:583:ASN:HB2	2.19	0.63
1:G:128:ASN:HA	1:G:180:GLY:O	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:255:ARG:NH1	1:F:255:ARG:HG2	2.14	0.63
1:I:128:ASN:HA	1:I:180:GLY:O	1.98	0.63
1:J:395:HIS:ND1	1:J:396:PRO:HD2	2.14	0.63
1:D:395:HIS:ND1	1:D:396:PRO:HD2	2.14	0.63
1:K:395:HIS:ND1	1:K:396:PRO:HD2	2.14	0.63
1:I:917:ARG:HH22	1:I:943:GLU:CD	2.02	0.63
1:G:917:ARG:HH22	1:G:943:GLU:CD	2.02	0.63
1:C:377:LEU:CD2	1:C:708:TRP:HA	2.28	0.63
1:O:232:ASN:ND2	1:O:234:ASP:OD1	2.30	0.63
1:K:599:ARG:HB2	1:K:600:GLN:OE1	1.99	0.63
1:L:945:ASN:OD1	1:L:950:GLN:NE2	2.30	0.63
1:O:902:PRO:O	1:O:938:ARG:NH1	2.31	0.63
1:B:568:TRP:HE1	1:B:604:ASN:HD22	1.47	0.63
1:H:902:PRO:O	1:H:938:ARG:NH1	2.32	0.63
1:K:117:GLU:OE1	1:K:117:GLU:N	2.27	0.63
1:I:599:ARG:HB2	1:I:600:GLN:OE1	1.99	0.63
1:C:894:ARG:HD3	1:C:919:ASP:OD2	1.98	0.63
1:O:128:ASN:HA	1:O:180:GLY:O	1.98	0.63
1:B:128:ASN:HA	1:B:180:GLY:O	1.98	0.63
1:O:255:ARG:HG2	1:O:255:ARG:NH1	2.14	0.63
1:J:255:ARG:NH1	1:J:255:ARG:HG2	2.14	0.63
1:F:395:HIS:ND1	1:F:396:PRO:HD2	2.14	0.63
1:O:395:HIS:ND1	1:O:396:PRO:HD2	2.14	0.63
1:G:395:HIS:ND1	1:G:396:PRO:HD2	2.14	0.63
1:E:395:HIS:ND1	1:E:396:PRO:HD2	2.14	0.63
1:L:701:VAL:HG12	1:L:702:GLN:N	2.13	0.63
1:M:917:ARG:HH22	1:M:943:GLU:CD	2.02	0.63
1:K:917:ARG:HH22	1:K:943:GLU:CD	2.02	0.63
1:F:232:ASN:ND2	1:F:234:ASP:OD1	2.30	0.63
1:G:232:ASN:ND2	1:G:234:ASP:OD1	2.30	0.63
1:J:902:PRO:O	1:J:938:ARG:NH1	2.32	0.63
1:M:724:GLU:O	1:N:847:LYS:NZ	2.23	0.63
1:O:847:LYS:HG3	1:O:848:THR:N	2.14	0.63
1:H:599:ARG:HB2	1:H:600:GLN:OE1	1.99	0.63
1:B:579:ASP:CG	1:B:583:ASN:HB2	2.19	0.63
1:C:255:ARG:NH1	1:C:255:ARG:HG2	2.14	0.63
1:J:128:ASN:HA	1:J:180:GLY:O	1.98	0.63
1:A:395:HIS:ND1	1:A:396:PRO:HD2	2.14	0.63
1:L:217:LYS:HE3	1:L:324:GLU:OE1	1.98	0.63
1:G:36:TRP:C	1:G:37:ARG:HD3	2.18	0.63
1:K:579:ASP:CG	1:K:583:ASN:HB2	2.19	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:902:PRO:O	1:A:938:ARG:NH1	2.31	0.63
1:F:847:LYS:HG3	1:F:848:THR:N	2.14	0.63
1:M:847:LYS:HG3	1:M:848:THR:N	2.14	0.63
1:C:117:GLU:N	1:C:117:GLU:OE1	2.27	0.63
1:J:117:GLU:OE1	1:J:117:GLU:N	2.27	0.63
1:B:599:ARG:HB2	1:B:600:GLN:OE1	1.99	0.63
1:M:599:ARG:HB2	1:M:600:GLN:OE1	1.99	0.63
1:J:894:ARG:NH1	1:J:919:ASP:OD2	2.30	0.62
1:E:894:ARG:NH1	1:E:919:ASP:OD2	2.30	0.62
1:L:894:ARG:HD3	1:L:919:ASP:OD2	1.98	0.62
1:M:894:ARG:HD3	1:M:919:ASP:OD2	1.98	0.62
1:M:128:ASN:HA	1:M:180:GLY:O	1.98	0.62
1:O:190:ARG:HD3	1:O:191:TRP:CZ2	2.34	0.62
1:M:395:HIS:ND1	1:M:396:PRO:HD2	2.14	0.62
1:L:37:ARG:HH11	1:L:37:ARG:HG3	1.64	0.62
1:F:37:ARG:HH11	1:F:37:ARG:HG3	1.64	0.62
1:P:701:VAL:HG12	1:P:702:GLN:N	2.13	0.62
1:A:377:LEU:CD2	1:A:708:TRP:HA	2.28	0.62
1:H:917:ARG:HH22	1:H:943:GLU:CD	2.02	0.62
1:N:847:LYS:HG3	1:N:848:THR:N	2.14	0.62
1:P:759:ASN:OD1	1:P:761:GLN:N	2.30	0.62
1:D:759:ASN:OD1	1:D:761:GLN:N	2.30	0.62
1:N:347:LYS:HB3	1:N:348:PRO:HD2	1.79	0.62
1:G:599:ARG:HB2	1:G:600:GLN:OE1	1.99	0.62
1:D:753:ASN:OD1	1:D:753:ASN:N	2.30	0.62
1:L:753:ASN:N	1:L:753:ASN:OD1	2.30	0.62
1:F:347:LYS:HB3	1:F:348:PRO:HD2	1.79	0.62
1:L:894:ARG:NH1	1:L:919:ASP:OD2	2.30	0.62
1:O:894:ARG:HD3	1:O:919:ASP:OD2	1.98	0.62
1:B:255:ARG:HG2	1:B:255:ARG:NH1	2.14	0.62
1:C:37:ARG:HG3	1:C:37:ARG:HH11	1.64	0.62
1:M:37:ARG:HG3	1:M:37:ARG:HH11	1.64	0.62
1:A:217:LYS:HE3	1:A:324:GLU:OE1	1.98	0.62
1:C:917:ARG:HH22	1:C:943:GLU:CD	2.02	0.62
1:E:917:ARG:HH22	1:E:943:GLU:CD	2.02	0.62
1:C:847:LYS:HG3	1:C:848:THR:N	2.14	0.62
1:H:579:ASP:CG	1:H:583:ASN:HB2	2.19	0.62
1:K:742:THR:HG22	1:K:743:SER:N	2.14	0.62
1:L:742:THR:HG22	1:L:743:SER:N	2.14	0.62
1:M:742:THR:HG22	1:M:743:SER:N	2.14	0.62
1:I:579:ASP:CG	1:I:583:ASN:HB2	2.19	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1021:CME:HB3	1:C:1021:CME:CZ	2.21	0.62
1:D:128:ASN:HA	1:D:180:GLY:O	1.99	0.62
1:B:190:ARG:HD3	1:B:191:TRP:CZ2	2.35	0.62
1:M:190:ARG:HD3	1:M:191:TRP:CZ2	2.34	0.62
1:N:395:HIS:ND1	1:N:396:PRO:HD2	2.14	0.62
1:I:395:HIS:ND1	1:I:396:PRO:HD2	2.14	0.62
1:G:190:ARG:HD3	1:G:191:TRP:CZ2	2.35	0.62
1:K:37:ARG:HH11	1:K:37:ARG:HG3	1.64	0.62
1:G:37:ARG:HH11	1:G:37:ARG:HG3	1.64	0.62
1:D:917:ARG:HH22	1:D:943:GLU:CD	2.02	0.62
1:D:579:ASP:CG	1:D:583:ASN:HB2	2.19	0.62
1:B:759:ASN:OD1	1:B:761:GLN:N	2.30	0.62
1:E:347:LYS:HB3	1:E:348:PRO:HD2	1.79	0.62
1:D:347:LYS:HB3	1:D:348:PRO:HD2	1.79	0.62
1:A:117:GLU:OE1	1:A:117:GLU:N	2.27	0.62
1:C:568:TRP:HE1	1:C:604:ASN:HD22	1.47	0.62
1:F:902:PRO:O	1:F:938:ARG:NH1	2.31	0.62
1:J:742:THR:HG22	1:J:743:SER:N	2.14	0.62
1:D:742:THR:HG22	1:D:743:SER:N	2.14	0.62
1:F:742:THR:HG22	1:F:743:SER:N	2.14	0.62
1:D:46:ARG:HG3	1:D:46:ARG:NH1	2.02	0.62
1:I:255:ARG:HG2	1:I:255:ARG:NH1	2.14	0.62
1:P:395:HIS:ND1	1:P:396:PRO:HD2	2.14	0.62
1:H:395:HIS:ND1	1:H:396:PRO:HD2	2.14	0.62
1:D:190:ARG:HD3	1:D:191:TRP:CZ2	2.35	0.62
1:O:37:ARG:HH11	1:O:37:ARG:HG3	1.64	0.62
1:B:701:VAL:HG12	1:B:702:GLN:N	2.13	0.62
1:H:336:ARG:HG2	1:H:336:ARG:NH1	2.09	0.62
1:E:856:TYR:CD2	1:E:864:MET:HE2	2.34	0.62
1:A:3:ILE:HG13	1:A:4:THR:N	2.09	0.62
1:P:599:ARG:HB2	1:P:600:GLN:OE1	1.99	0.62
1:N:287:ASP:OD2	1:O:425:ARG:NH2	2.31	0.62
1:F:599:ARG:HB2	1:F:600:GLN:OE1	1.99	0.62
1:C:902:PRO:O	1:C:938:ARG:NH1	2.31	0.62
1:L:902:PRO:O	1:L:938:ARG:NH1	2.31	0.62
1:B:847:LYS:HG3	1:B:848:THR:N	2.14	0.62
1:I:18:ASN:HD22	1:I:21:VAL:HG23	1.64	0.62
1:L:360:HIS:HE1	1:L:362:LEU:HB2	1.61	0.62
1:B:894:ARG:NH1	1:B:919:ASP:OD2	2.30	0.62
1:F:894:ARG:HD3	1:F:919:ASP:OD2	1.98	0.62
1:F:894:ARG:NH1	1:F:919:ASP:OD2	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:190:ARG:HD3	1:E:191:TRP:CZ2	2.35	0.62
1:P:37:ARG:HG3	1:P:37:ARG:HH11	1.64	0.62
1:O:701:VAL:HG12	1:O:702:GLN:N	2.13	0.62
1:H:701:VAL:HG12	1:H:702:GLN:N	2.13	0.62
1:G:701:VAL:HG12	1:G:702:GLN:N	2.13	0.62
1:P:917:ARG:HH22	1:P:943:GLU:CD	2.02	0.62
1:L:568:TRP:HE1	1:L:604:ASN:HD22	1.47	0.62
1:H:127:PHE:HE2	1:H:184:LEU:HG	1.65	0.62
1:N:3:ILE:HG13	1:N:4:THR:N	2.09	0.62
1:J:847:LYS:HG3	1:J:848:THR:N	2.14	0.62
1:I:742:THR:HG22	1:I:743:SER:N	2.14	0.62
1:E:742:THR:HG22	1:E:743:SER:N	2.14	0.62
1:M:919:ASP:O	1:M:920:LEU:HD23	2.00	0.62
1:I:190:ARG:HD3	1:I:191:TRP:CZ2	2.35	0.62
1:J:190:ARG:HD3	1:J:191:TRP:CZ2	2.35	0.62
1:N:701:VAL:HG12	1:N:702:GLN:N	2.13	0.62
1:L:856:TYR:CD2	1:L:864:MET:HE2	2.33	0.62
1:H:856:TYR:CD2	1:H:864:MET:HE2	2.34	0.62
1:B:917:ARG:HH22	1:B:943:GLU:CD	2.02	0.62
1:F:127:PHE:HE2	1:F:184:LEU:HG	1.65	0.62
1:J:599:ARG:HB2	1:J:600:GLN:OE1	1.99	0.62
1:H:568:TRP:HE1	1:H:604:ASN:HD22	1.47	0.62
1:J:753:ASN:N	1:J:753:ASN:OD1	2.30	0.62
1:I:568:TRP:HE1	1:I:604:ASN:HD22	1.47	0.62
1:H:759:ASN:OD1	1:H:761:GLN:N	2.30	0.62
1:D:568:TRP:HE1	1:D:604:ASN:HD22	1.47	0.62
1:A:599:ARG:HB2	1:A:600:GLN:OE1	1.99	0.62
1:N:742:THR:HG22	1:N:743:SER:N	2.14	0.62
1:A:742:THR:HG22	1:A:743:SER:N	2.14	0.62
1:C:742:THR:HG22	1:C:743:SER:N	2.14	0.62
1:N:190:ARG:HD3	1:N:191:TRP:CZ2	2.35	0.62
1:P:190:ARG:HD3	1:P:191:TRP:CZ2	2.35	0.62
1:L:395:HIS:ND1	1:L:396:PRO:HD2	2.14	0.62
1:F:701:VAL:HG12	1:F:702:GLN:N	2.13	0.62
1:E:847:LYS:HG3	1:E:848:THR:N	2.14	0.62
1:B:902:PRO:O	1:B:938:ARG:NH1	2.31	0.62
1:N:599:ARG:HB2	1:N:600:GLN:OE1	1.99	0.62
1:I:945:ASN:OD1	1:I:950:GLN:NE2	2.30	0.62
1:O:579:ASP:CG	1:O:583:ASN:HB2	2.19	0.62
1:G:579:ASP:CG	1:G:583:ASN:HB2	2.19	0.62
1:D:3:ILE:HG13	1:D:4:THR:N	2.09	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:919:ASP:O	1:A:920:LEU:HD23	2.00	0.62
1:F:128:ASN:HA	1:F:180:GLY:O	1.98	0.62
1:K:255:ARG:HG2	1:K:255:ARG:NH1	2.14	0.62
1:C:190:ARG:HD3	1:C:191:TRP:CZ2	2.35	0.62
1:L:190:ARG:HD3	1:L:191:TRP:CZ2	2.34	0.62
1:K:190:ARG:HD3	1:K:191:TRP:CZ2	2.35	0.62
1:H:37:ARG:HG3	1:H:37:ARG:HH11	1.64	0.62
1:G:856:TYR:CD2	1:G:864:MET:HE2	2.34	0.62
1:J:917:ARG:HH22	1:J:943:GLU:CD	2.02	0.62
1:C:599:ARG:HB2	1:C:600:GLN:OE1	1.99	0.62
1:M:127:PHE:HE2	1:M:184:LEU:HG	1.65	0.62
1:E:599:ARG:HB2	1:E:600:GLN:OE1	1.99	0.62
1:P:568:TRP:HE1	1:P:604:ASN:HD22	1.47	0.62
1:B:742:THR:HG22	1:B:743:SER:N	2.14	0.62
1:G:742:THR:HG22	1:G:743:SER:N	2.14	0.62
1:P:578:TYR:HA	1:P:583:ASN:O	2.00	0.62
1:P:579:ASP:CG	1:P:583:ASN:HB2	2.19	0.62
1:A:419:GLY:CA	1:D:282:ARG:HH11	2.11	0.62
1:K:919:ASP:O	1:K:920:LEU:HD23	2.00	0.62
1:L:579:ASP:CG	1:L:583:ASN:HB2	2.19	0.62
1:N:917:ARG:HH22	1:N:943:GLU:CD	2.02	0.62
1:G:902:PRO:O	1:G:938:ARG:NH1	2.31	0.62
1:D:599:ARG:HB2	1:D:600:GLN:OE1	1.99	0.62
1:M:194:GLY:O	1:M:198:GLU:HG3	2.00	0.62
1:M:579:ASP:CG	1:M:583:ASN:HB2	2.19	0.62
1:H:194:GLY:O	1:H:198:GLU:HG3	2.00	0.62
1:C:127:PHE:HE2	1:C:184:LEU:HG	1.65	0.62
1:E:117:GLU:OE1	1:E:117:GLU:N	2.27	0.62
1:H:847:LYS:HG3	1:H:848:THR:N	2.14	0.62
1:E:578:TYR:HA	1:E:583:ASN:O	2.00	0.62
1:J:360:HIS:HE1	1:J:362:LEU:HB2	1.61	0.62
1:F:919:ASP:O	1:F:920:LEU:HD23	2.00	0.62
1:H:1020:TRP:HD1	1:H:1021:CME:N	1.98	0.62
1:G:255:ARG:NH1	1:G:255:ARG:HG2	2.14	0.62
1:O:4:THR:HA	1:O:9:VAL:HG11	1.82	0.62
1:P:178:ARG:NH1	1:P:181:GLU:O	2.33	0.62
1:F:3:ILE:HG13	1:F:4:THR:N	2.09	0.62
1:A:127:PHE:HE2	1:A:184:LEU:HG	1.65	0.62
1:O:568:TRP:HE1	1:O:604:ASN:HD22	1.47	0.62
1:G:847:LYS:HG3	1:G:848:THR:N	2.14	0.62
1:A:847:LYS:HG3	1:A:848:THR:N	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:902:PRO:O	1:I:938:ARG:NH1	2.32	0.62
1:N:753:ASN:N	1:N:753:ASN:OD1	2.30	0.62
1:P:742:THR:HG22	1:P:743:SER:N	2.14	0.61
1:N:18:ASN:HD22	1:N:21:VAL:HG23	1.64	0.61
1:F:18:ASN:HD22	1:F:21:VAL:HG23	1.64	0.61
1:A:18:ASN:HD22	1:A:21:VAL:HG23	1.64	0.61
1:G:4:THR:HA	1:G:9:VAL:HG11	1.82	0.61
1:P:4:THR:HA	1:P:9:VAL:HG11	1.82	0.61
1:O:599:ARG:HB2	1:O:600:GLN:OE1	1.99	0.61
1:G:568:TRP:HE1	1:G:604:ASN:HD22	1.47	0.61
1:E:127:PHE:HE2	1:E:184:LEU:HG	1.65	0.61
1:K:651:LEU:HD13	1:K:669:PRO:HA	1.82	0.61
1:D:323:ILE:N	1:D:323:ILE:HD12	2.16	0.61
1:I:578:TYR:HA	1:I:583:ASN:O	2.00	0.61
1:E:579:ASP:CG	1:E:583:ASN:HB2	2.19	0.61
1:F:190:ARG:HD3	1:F:191:TRP:CZ2	2.35	0.61
1:C:578:TYR:HA	1:C:583:ASN:O	2.00	0.61
1:D:578:TYR:HA	1:D:583:ASN:O	2.00	0.61
1:D:945:ASN:OD1	1:D:950:GLN:NE2	2.30	0.61
1:B:194:GLY:O	1:B:198:GLU:HG3	2.00	0.61
1:D:127:PHE:HE2	1:D:184:LEU:HG	1.65	0.61
1:I:194:GLY:O	1:I:198:GLU:HG3	2.00	0.61
1:J:745:MET:HA	1:J:745:MET:HE2	1.80	0.61
1:D:18:ASN:HD22	1:D:21:VAL:HG23	1.64	0.61
1:N:578:TYR:HA	1:N:583:ASN:O	2.00	0.61
1:M:1020:TRP:HD1	1:M:1021:CME:N	1.99	0.61
1:I:1020:TRP:HD1	1:I:1021:CME:N	1.99	0.61
1:H:919:ASP:O	1:H:920:LEU:HD23	2.00	0.61
1:G:1020:TRP:HD1	1:G:1021:CME:N	1.98	0.61
1:H:190:ARG:HD3	1:H:191:TRP:CZ2	2.35	0.61
1:L:30:HIS:ND1	1:L:31:PRO:O	2.26	0.61
1:A:194:GLY:O	1:A:198:GLU:HG3	2.00	0.61
1:J:568:TRP:HE1	1:J:604:ASN:HD22	1.47	0.61
1:K:786:ARG:HH11	1:K:990:HIS:CE1	2.18	0.61
1:J:127:PHE:HE2	1:J:184:LEU:HG	1.65	0.61
1:M:786:ARG:HH11	1:M:990:HIS:CE1	2.18	0.61
1:G:127:PHE:HE2	1:G:184:LEU:HG	1.65	0.61
1:C:427:THR:HA	1:C:436:MET:HE2	1.82	0.61
1:O:742:THR:HG22	1:O:743:SER:N	2.14	0.61
1:K:745:MET:HE2	1:K:745:MET:HA	1.82	0.61
1:J:651:LEU:HD13	1:J:669:PRO:HA	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:651:LEU:HD13	1:D:669:PRO:HA	1.82	0.61
1:E:323:ILE:N	1:E:323:ILE:HD12	2.16	0.61
1:G:782:ASP:HA	1:G:884:LEU:HD23	1.83	0.61
1:O:782:ASP:HA	1:O:884:LEU:HD23	1.83	0.61
1:B:1021:CME:HB3	1:B:1021:CME:CZ	2.21	0.61
1:D:919:ASP:O	1:D:920:LEU:HD23	2.00	0.61
1:E:1020:TRP:HD1	1:E:1021:CME:N	1.99	0.61
1:B:37:ARG:HG3	1:B:37:ARG:HH11	1.64	0.61
1:K:847:LYS:HG3	1:K:848:THR:N	2.14	0.61
1:E:224:ASP:OD2	1:E:225:PHE:N	2.34	0.61
1:O:127:PHE:HE2	1:O:184:LEU:HG	1.65	0.61
1:I:127:PHE:HE2	1:I:184:LEU:HG	1.65	0.61
1:A:689:GLU:HA	1:A:689:GLU:OE2	2.01	0.61
1:D:689:GLU:HA	1:D:689:GLU:OE2	2.01	0.61
1:O:945:ASN:OD1	1:O:950:GLN:NE2	2.30	0.61
1:C:18:ASN:HD22	1:C:21:VAL:HG23	1.64	0.61
1:O:360:HIS:CE1	1:O:361:PRO:HD2	2.36	0.61
1:O:578:TYR:HA	1:O:583:ASN:O	2.00	0.61
1:G:578:TYR:HA	1:G:583:ASN:O	2.00	0.61
1:B:782:ASP:HA	1:B:884:LEU:HD23	1.83	0.61
1:P:1020:TRP:HD1	1:P:1021:CME:N	1.99	0.61
1:N:919:ASP:O	1:N:920:LEU:HD23	2.00	0.61
1:C:919:ASP:O	1:C:920:LEU:HD23	2.00	0.61
1:A:255:ARG:HG2	1:A:255:ARG:NH1	2.14	0.61
1:A:37:ARG:HH11	1:A:37:ARG:HG3	1.64	0.61
1:O:437:SER:HB2	5:O:2257:HOH:O	2.01	0.61
1:B:232:ASN:ND2	1:B:234:ASP:OD1	2.30	0.61
1:H:4:THR:HA	1:H:9:VAL:HG11	1.82	0.61
1:K:568:TRP:HE1	1:K:604:ASN:HD22	1.47	0.61
1:E:568:TRP:HE1	1:E:604:ASN:HD22	1.47	0.61
1:B:127:PHE:HE2	1:B:184:LEU:HG	1.65	0.61
1:F:224:ASP:OD2	1:F:225:PHE:N	2.34	0.61
1:A:224:ASP:OD2	1:A:225:PHE:N	2.34	0.61
1:H:742:THR:HG22	1:H:743:SER:N	2.14	0.61
1:L:323:ILE:HD12	1:L:323:ILE:N	2.16	0.61
1:P:323:ILE:N	1:P:323:ILE:HD12	2.16	0.61
1:C:651:LEU:HD13	1:C:669:PRO:HA	1.82	0.61
1:H:323:ILE:N	1:H:323:ILE:HD12	2.16	0.61
1:M:323:ILE:HD12	1:M:323:ILE:N	2.16	0.61
1:C:360:HIS:CE1	1:C:361:PRO:HD2	2.36	0.61
1:B:1020:TRP:HD1	1:B:1021:CME:N	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:919:ASP:O	1:J:920:LEU:HD23	2.00	0.61
1:A:1021:CME:HB3	1:A:1021:CME:CZ	2.21	0.61
1:I:919:ASP:O	1:I:920:LEU:HD23	2.00	0.61
1:C:395:HIS:ND1	1:C:396:PRO:HD2	2.14	0.61
1:N:37:ARG:HH11	1:N:37:ARG:HG3	1.64	0.61
1:L:578:TYR:HA	1:L:583:ASN:O	2.00	0.61
1:H:30:HIS:ND1	1:H:31:PRO:O	2.27	0.61
1:F:194:GLY:O	1:F:198:GLU:HG3	2.00	0.61
1:M:568:TRP:HE1	1:M:604:ASN:HD22	1.47	0.61
1:B:689:GLU:HA	1:B:689:GLU:OE2	2.01	0.61
1:P:689:GLU:OE2	1:P:689:GLU:HA	2.01	0.61
1:F:689:GLU:HA	1:F:689:GLU:OE2	2.01	0.61
1:I:847:LYS:HG3	1:I:848:THR:N	2.14	0.61
1:B:224:ASP:OD2	1:B:225:PHE:N	2.34	0.61
1:D:847:LYS:HG3	1:D:848:THR:N	2.14	0.61
1:N:323:ILE:HD12	1:N:323:ILE:N	2.16	0.61
1:E:782:ASP:HA	1:E:884:LEU:HD23	1.83	0.61
1:G:1021:CME:HB3	1:G:1021:CME:CZ	2.21	0.61
1:G:919:ASP:O	1:G:920:LEU:HD23	2.00	0.61
1:A:190:ARG:HD3	1:A:191:TRP:CZ2	2.35	0.61
1:H:54:LEU:N	1:H:54:LEU:HD23	2.15	0.61
1:D:37:ARG:HG3	1:D:37:ARG:HH11	1.64	0.61
1:K:578:TYR:HA	1:K:583:ASN:O	2.00	0.61
1:K:4:THR:HA	1:K:9:VAL:HG11	1.82	0.61
1:P:30:HIS:ND1	1:P:31:PRO:O	2.26	0.61
1:B:4:THR:HA	1:B:9:VAL:HG11	1.82	0.61
1:L:847:LYS:HG3	1:L:848:THR:N	2.14	0.61
1:P:847:LYS:HG3	1:P:848:THR:N	2.14	0.61
1:E:786:ARG:HH11	1:E:990:HIS:CE1	2.18	0.61
1:G:689:GLU:OE2	1:G:689:GLU:HA	2.01	0.61
1:H:689:GLU:OE2	1:H:689:GLU:HA	2.01	0.61
1:N:224:ASP:OD2	1:N:225:PHE:N	2.34	0.61
1:B:786:ARG:HH11	1:B:990:HIS:CE1	2.18	0.61
1:I:323:ILE:HD12	1:I:323:ILE:N	2.16	0.61
1:J:1020:TRP:HD1	1:J:1021:CME:N	1.99	0.61
1:B:919:ASP:O	1:B:920:LEU:HD23	2.00	0.61
1:I:37:ARG:HG3	1:I:37:ARG:HH11	1.64	0.61
1:N:662:PRO:O	1:N:663:LEU:HD23	2.01	0.61
1:H:662:PRO:O	1:H:663:LEU:HD23	2.01	0.61
1:I:4:THR:HA	1:I:9:VAL:HG11	1.82	0.61
1:E:4:THR:HA	1:E:9:VAL:HG11	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:4:THR:HA	1:M:9:VAL:HG11	1.82	0.61
1:C:224:ASP:OD2	1:C:225:PHE:N	2.34	0.61
1:D:786:ARG:HH11	1:D:990:HIS:CE1	2.18	0.61
1:L:224:ASP:OD2	1:L:225:PHE:N	2.34	0.61
1:L:599:ARG:HB2	1:L:600:GLN:OE1	1.99	0.61
1:I:689:GLU:OE2	1:I:689:GLU:HA	2.01	0.61
1:E:194:GLY:O	1:E:198:GLU:HG3	2.00	0.61
1:M:651:LEU:HD13	1:M:669:PRO:HA	1.82	0.61
1:E:651:LEU:HD13	1:E:669:PRO:HA	1.82	0.61
1:P:18:ASN:HD22	1:P:21:VAL:HG23	1.64	0.61
1:K:323:ILE:HD12	1:K:323:ILE:N	2.16	0.61
1:F:360:HIS:CE1	1:F:361:PRO:HD2	2.36	0.61
1:O:1020:TRP:HD1	1:O:1021:CME:N	1.98	0.61
1:A:894:ARG:NH1	1:A:919:ASP:OD2	2.30	0.61
1:E:54:LEU:N	1:E:54:LEU:HD23	2.15	0.61
1:E:37:ARG:HG3	1:E:37:ARG:HH11	1.64	0.61
1:D:287:ASP:OD1	1:D:287:ASP:N	2.29	0.61
1:A:434:PRO:HB3	1:D:434:PRO:HB3	1.83	0.61
1:N:30:HIS:ND1	1:N:31:PRO:O	2.26	0.61
1:I:224:ASP:OD2	1:I:225:PHE:N	2.34	0.61
1:C:194:GLY:O	1:C:198:GLU:HG3	2.00	0.61
1:D:224:ASP:OD2	1:D:225:PHE:N	2.34	0.61
1:K:127:PHE:HE2	1:K:184:LEU:HG	1.65	0.61
1:N:194:GLY:O	1:N:198:GLU:HG3	2.00	0.61
1:P:786:ARG:HH11	1:P:990:HIS:CE1	2.18	0.61
1:C:689:GLU:HA	1:C:689:GLU:OE2	2.01	0.61
1:M:117:GLU:OE1	1:M:117:GLU:N	2.27	0.61
1:B:945:ASN:OD1	1:B:950:GLN:NE2	2.30	0.61
1:K:194:GLY:O	1:K:198:GLU:HG3	2.00	0.61
1:F:323:ILE:HD12	1:F:323:ILE:N	2.16	0.61
1:A:651:LEU:HD13	1:A:669:PRO:HA	1.83	0.61
1:H:360:HIS:CE1	1:H:361:PRO:HD2	2.36	0.61
1:H:894:ARG:NH1	1:H:919:ASP:OD2	2.30	0.61
1:P:919:ASP:O	1:P:920:LEU:HD23	2.00	0.61
1:M:782:ASP:HA	1:M:884:LEU:HD23	1.83	0.61
1:C:1020:TRP:HD1	1:C:1021:CME:N	1.99	0.61
1:O:894:ARG:NH1	1:O:919:ASP:OD2	2.30	0.61
1:O:919:ASP:O	1:O:920:LEU:HD23	2.00	0.61
1:M:54:LEU:N	1:M:54:LEU:HD23	2.15	0.61
1:P:54:LEU:N	1:P:54:LEU:HD23	2.15	0.61
1:P:662:PRO:O	1:P:663:LEU:HD23	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:125:LEU:HG	1:N:126:THR:N	2.16	0.61
1:F:917:ARG:HH22	1:F:943:GLU:CD	2.02	0.61
1:I:30:HIS:ND1	1:I:31:PRO:O	2.26	0.61
1:F:287:ASP:OD2	1:G:425:ARG:NH2	2.34	0.61
1:P:127:PHE:HE2	1:P:184:LEU:HG	1.65	0.61
1:F:786:ARG:HH11	1:F:990:HIS:CE1	2.18	0.61
1:G:224:ASP:OD2	1:G:225:PHE:N	2.34	0.61
1:J:194:GLY:O	1:J:198:GLU:HG3	2.00	0.61
1:L:786:ARG:HH11	1:L:990:HIS:CE1	2.18	0.61
1:L:18:ASN:HD22	1:L:21:VAL:HG23	1.64	0.60
1:E:360:HIS:CE1	1:E:361:PRO:HD2	2.36	0.60
1:G:651:LEU:HD13	1:G:669:PRO:HA	1.83	0.60
1:A:782:ASP:HA	1:A:884:LEU:HD23	1.83	0.60
1:O:1021:CME:HB3	1:O:1021:CME:CZ	2.21	0.60
1:H:782:ASP:HA	1:H:884:LEU:HD23	1.83	0.60
1:E:919:ASP:O	1:E:920:LEU:HD23	2.00	0.60
1:L:919:ASP:O	1:L:920:LEU:HD23	2.00	0.60
1:A:1020:TRP:HD1	1:A:1021:CME:N	1.99	0.60
1:H:1021:CME:HB3	1:H:1021:CME:CZ	2.21	0.60
1:G:54:LEU:N	1:G:54:LEU:HD23	2.15	0.60
1:I:662:PRO:O	1:I:663:LEU:HD23	2.01	0.60
1:G:786:ARG:HH11	1:G:990:HIS:CE1	2.18	0.60
1:O:224:ASP:OD2	1:O:225:PHE:N	2.34	0.60
1:J:945:ASN:OD1	1:J:950:GLN:NE2	2.30	0.60
1:H:786:ARG:HH11	1:H:990:HIS:CE1	2.18	0.60
1:O:786:ARG:HH11	1:O:990:HIS:CE1	2.18	0.60
1:J:689:GLU:OE2	1:J:689:GLU:HA	2.01	0.60
1:L:178:ARG:NH1	1:L:181:GLU:O	2.33	0.60
1:A:786:ARG:HH11	1:A:990:HIS:CE1	2.18	0.60
1:P:360:HIS:CE1	1:P:361:PRO:HD2	2.36	0.60
1:C:323:ILE:N	1:C:323:ILE:HD12	2.16	0.60
1:D:782:ASP:HA	1:D:884:LEU:HD23	1.83	0.60
1:O:651:LEU:HD13	1:O:669:PRO:HA	1.83	0.60
1:N:782:ASP:HA	1:N:884:LEU:HD23	1.83	0.60
1:P:249:GLU:HG2	1:P:251:ARG:HH12	1.67	0.60
1:F:1020:TRP:HD1	1:F:1021:CME:N	1.99	0.60
1:F:782:ASP:HA	1:F:884:LEU:HD23	1.83	0.60
1:N:894:ARG:NH1	1:N:919:ASP:OD2	2.30	0.60
1:E:662:PRO:O	1:E:663:LEU:HD23	2.01	0.60
1:K:662:PRO:O	1:K:663:LEU:HD23	2.01	0.60
1:J:662:PRO:O	1:J:663:LEU:HD23	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4:THR:HA	1:C:9:VAL:HG11	1.82	0.60
1:L:194:GLY:O	1:L:198:GLU:HG3	2.00	0.60
1:J:224:ASP:OD2	1:J:225:PHE:N	2.34	0.60
1:N:127:PHE:HE2	1:N:184:LEU:HG	1.65	0.60
1:J:786:ARG:HH11	1:J:990:HIS:CE1	2.18	0.60
1:K:460:ASN:ND2	1:K:461:GLU:HG3	2.17	0.60
1:N:651:LEU:HD13	1:N:669:PRO:HA	1.83	0.60
1:A:323:ILE:HD12	1:A:323:ILE:N	2.16	0.60
1:J:323:ILE:HD12	1:J:323:ILE:N	2.16	0.60
1:L:782:ASP:HA	1:L:884:LEU:HD23	1.83	0.60
1:F:578:TYR:HA	1:F:583:ASN:O	2.00	0.60
1:L:1021:CME:HZ3	1:L:1021:CME:HB3	1.84	0.60
1:E:7:LEU:N	1:E:71:GLU:OE2	2.35	0.60
1:P:782:ASP:HA	1:P:884:LEU:HD23	1.83	0.60
1:G:894:ARG:NH1	1:G:919:ASP:OD2	2.30	0.60
1:A:662:PRO:O	1:A:663:LEU:HD23	2.01	0.60
1:L:127:PHE:HE2	1:L:184:LEU:HG	1.65	0.60
1:A:178:ARG:NH1	1:A:181:GLU:O	2.33	0.60
1:C:786:ARG:HH11	1:C:990:HIS:CE1	2.18	0.60
1:K:689:GLU:HA	1:K:689:GLU:OE2	2.01	0.60
1:E:689:GLU:HA	1:E:689:GLU:OE2	2.01	0.60
1:F:427:THR:HA	1:F:436:MET:HE2	1.82	0.60
1:F:651:LEU:HD13	1:F:669:PRO:HA	1.82	0.60
1:H:249:GLU:HG2	1:H:251:ARG:HH12	1.67	0.60
1:M:1021:CME:HB3	1:M:1021:CME:HZ3	1.84	0.60
1:G:1021:CME:HB3	1:G:1021:CME:HZ3	1.84	0.60
1:G:125:LEU:HG	1:G:126:THR:N	2.16	0.60
1:H:578:TYR:HA	1:H:583:ASN:O	2.00	0.60
1:A:4:THR:HA	1:A:9:VAL:HG11	1.82	0.60
1:I:786:ARG:HH11	1:I:990:HIS:CE1	2.18	0.60
1:K:1011:ALA:HB3	1:K:1014:TYR:CZ	2.37	0.60
1:J:130:ASP:OD1	1:J:132:SER:N	2.29	0.60
1:A:945:ASN:OD1	1:A:950:GLN:NE2	2.30	0.60
1:P:194:GLY:O	1:P:198:GLU:HG3	2.00	0.60
1:H:224:ASP:OD2	1:H:225:PHE:N	2.34	0.60
1:B:18:ASN:HD22	1:B:21:VAL:HG23	1.64	0.60
1:I:360:HIS:CE1	1:I:361:PRO:HD2	2.36	0.60
1:A:578:TYR:HA	1:A:583:ASN:O	2.00	0.60
1:E:360:HIS:HE1	1:E:362:LEU:HB2	1.61	0.60
1:J:578:TYR:HA	1:J:583:ASN:O	2.00	0.60
1:P:7:LEU:N	1:P:71:GLU:OE2	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:7:LEU:N	1:L:71:GLU:OE2	2.35	0.60
1:I:249:GLU:HG2	1:I:251:ARG:HH12	1.67	0.60
1:C:782:ASP:HA	1:C:884:LEU:HD23	1.83	0.60
1:B:1021:CME:HB3	1:B:1021:CME:HZ3	1.84	0.60
1:E:1021:CME:HB3	1:E:1021:CME:HZ3	1.84	0.60
1:D:255:ARG:NH1	1:D:255:ARG:HG2	2.14	0.60
1:O:125:LEU:HG	1:O:126:THR:N	2.16	0.60
1:K:125:LEU:HG	1:K:126:THR:N	2.16	0.60
1:J:4:THR:HA	1:J:9:VAL:HG11	1.82	0.60
1:P:224:ASP:OD2	1:P:225:PHE:N	2.34	0.60
1:K:224:ASP:OD2	1:K:225:PHE:N	2.34	0.60
1:M:224:ASP:OD2	1:M:225:PHE:N	2.34	0.60
1:L:14:ARG:HA	1:L:16:TRP:CZ3	2.37	0.60
1:B:1011:ALA:HB3	1:B:1014:TYR:CZ	2.37	0.60
1:J:1011:ALA:HB3	1:J:1014:TYR:CZ	2.37	0.60
1:L:651:LEU:HD13	1:L:669:PRO:HA	1.83	0.60
1:I:651:LEU:HD13	1:I:669:PRO:HA	1.82	0.60
1:J:360:HIS:CE1	1:J:361:PRO:HD2	2.36	0.60
1:C:360:HIS:HE1	1:C:362:LEU:HB2	1.61	0.60
1:L:1020:TRP:HD1	1:L:1021:CME:N	1.99	0.60
1:I:1021:CME:HB3	1:I:1021:CME:HZ3	1.84	0.60
1:C:1021:CME:HB3	1:C:1021:CME:HZ3	1.84	0.60
1:H:1021:CME:HB3	1:H:1021:CME:HZ3	1.84	0.60
1:O:662:PRO:O	1:O:663:LEU:HD23	2.01	0.60
1:M:125:LEU:HG	1:M:126:THR:N	2.16	0.60
1:C:14:ARG:HA	1:C:16:TRP:CZ3	2.37	0.60
1:N:689:GLU:OE2	1:N:689:GLU:HA	2.01	0.60
1:P:1011:ALA:HB3	1:P:1014:TYR:CZ	2.37	0.60
1:B:873:ALA:O	1:B:876:THR:HG22	2.02	0.60
1:E:460:ASN:ND2	1:E:461:GLU:HG3	2.17	0.60
1:H:745:MET:HE2	1:H:745:MET:HA	1.84	0.60
1:G:7:LEU:N	1:G:71:GLU:OE2	2.35	0.60
1:F:7:LEU:N	1:F:71:GLU:OE2	2.35	0.60
1:A:360:HIS:CE1	1:A:361:PRO:HD2	2.36	0.60
1:G:360:HIS:CE1	1:G:361:PRO:HD2	2.36	0.60
1:H:7:LEU:N	1:H:71:GLU:OE2	2.35	0.60
1:J:782:ASP:HA	1:J:884:LEU:HD23	1.83	0.60
1:N:1021:CME:HB3	1:N:1021:CME:HZ3	1.84	0.60
1:O:249:GLU:HG2	1:O:251:ARG:HH12	1.67	0.60
1:P:1021:CME:HB3	1:P:1021:CME:HZ3	1.84	0.60
1:D:1020:TRP:HD1	1:D:1021:CME:N	1.99	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:1020:TRP:HD1	1:K:1021:CME:N	1.99	0.60
1:D:533:LEU:HD12	1:D:533:LEU:C	2.22	0.60
1:N:533:LEU:C	1:N:533:LEU:HD12	2.22	0.60
1:J:36:TRP:O	1:J:37:ARG:HD3	2.02	0.60
1:M:662:PRO:O	1:M:663:LEU:HD23	2.01	0.60
1:M:578:TYR:HA	1:M:583:ASN:O	2.00	0.60
1:F:4:THR:HA	1:F:9:VAL:HG11	1.82	0.60
1:L:460:ASN:ND2	1:L:461:GLU:HG3	2.17	0.60
1:M:1011:ALA:HB3	1:M:1014:TYR:CZ	2.37	0.60
1:M:689:GLU:OE2	1:M:689:GLU:HA	2.01	0.60
1:I:460:ASN:ND2	1:I:461:GLU:HG3	2.17	0.60
1:O:323:ILE:N	1:O:323:ILE:HD12	2.16	0.60
1:P:651:LEU:HD13	1:P:669:PRO:HA	1.82	0.60
1:N:7:LEU:N	1:N:71:GLU:OE2	2.35	0.60
1:L:360:HIS:CE1	1:L:361:PRO:HD2	2.36	0.60
1:M:360:HIS:CE1	1:M:361:PRO:HD2	2.36	0.60
1:D:360:HIS:HE1	1:D:362:LEU:HB2	1.61	0.60
1:N:1020:TRP:HD1	1:N:1021:CME:N	1.99	0.60
1:B:533:LEU:HD12	1:B:533:LEU:C	2.22	0.60
1:L:36:TRP:O	1:L:37:ARG:HD3	2.02	0.60
1:I:533:LEU:HD12	1:I:533:LEU:C	2.22	0.60
1:A:282:ARG:NH1	1:D:419:GLY:O	2.35	0.60
1:D:125:LEU:HG	1:D:126:THR:N	2.16	0.60
1:N:4:THR:HA	1:N:9:VAL:HG11	1.82	0.60
1:N:786:ARG:HH11	1:N:990:HIS:CE1	2.18	0.60
1:G:194:GLY:O	1:G:198:GLU:HG3	2.00	0.60
1:O:194:GLY:O	1:O:198:GLU:HG3	2.00	0.60
1:O:460:ASN:ND2	1:O:461:GLU:HG3	2.17	0.60
1:E:502:MET:HB2	1:E:537:GLU:HB2	1.84	0.60
1:D:460:ASN:ND2	1:D:461:GLU:HG3	2.17	0.60
1:F:14:ARG:HA	1:F:16:TRP:CZ3	2.37	0.60
1:F:502:MET:HB2	1:F:537:GLU:HB2	1.84	0.60
1:B:323:ILE:HD12	1:B:323:ILE:N	2.16	0.60
1:B:360:HIS:CE1	1:B:361:PRO:HD2	2.36	0.60
1:J:7:LEU:N	1:J:71:GLU:OE2	2.35	0.60
1:K:360:HIS:CE1	1:K:361:PRO:HD2	2.36	0.60
1:C:7:LEU:N	1:C:71:GLU:OE2	2.35	0.60
1:F:1021:CME:HZ3	1:F:1021:CME:HB3	1.84	0.60
1:N:372:MET:HE1	1:N:395:HIS:HB3	1.84	0.60
1:L:533:LEU:HD12	1:L:533:LEU:C	2.22	0.60
1:F:54:LEU:N	1:F:54:LEU:HD23	2.15	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:533:LEU:HD12	1:G:533:LEU:C	2.22	0.60
1:O:36:TRP:O	1:O:37:ARG:HD3	2.02	0.60
1:F:533:LEU:HD12	1:F:533:LEU:C	2.22	0.60
1:M:36:TRP:O	1:M:37:ARG:HD3	2.02	0.60
1:L:662:PRO:O	1:L:663:LEU:HD23	2.01	0.60
1:H:125:LEU:HG	1:H:126:THR:N	2.16	0.60
1:N:14:ARG:HA	1:N:16:TRP:CZ3	2.37	0.60
1:B:14:ARG:HA	1:B:16:TRP:CZ3	2.37	0.60
1:H:178:ARG:NH1	1:H:181:GLU:O	2.33	0.60
1:H:460:ASN:ND2	1:H:461:GLU:HG3	2.17	0.60
1:A:1011:ALA:HB3	1:A:1014:TYR:CZ	2.37	0.60
1:P:261:TRP:CH2	1:P:266:GLN:HB2	2.37	0.60
1:D:849:LEU:HD23	1:D:849:LEU:N	2.17	0.60
1:E:753:ASN:OD1	1:E:753:ASN:N	2.30	0.60
1:M:502:MET:HB2	1:M:537:GLU:HB2	1.84	0.60
1:K:178:ARG:NH1	1:K:181:GLU:O	2.33	0.60
1:N:502:MET:HB2	1:N:537:GLU:HB2	1.84	0.60
1:B:651:LEU:HD13	1:B:669:PRO:HA	1.82	0.60
1:N:360:HIS:CE1	1:N:361:PRO:HD2	2.36	0.60
1:D:4:THR:HA	1:D:9:VAL:HG11	1.82	0.60
1:K:782:ASP:HA	1:K:884:LEU:HD23	1.83	0.60
1:P:1021:CME:CZ	1:P:1021:CME:HB3	2.21	0.60
1:D:1021:CME:HB3	1:D:1021:CME:HZ3	1.84	0.60
1:I:782:ASP:HA	1:I:884:LEU:HD23	1.83	0.60
1:K:533:LEU:HD12	1:K:533:LEU:C	2.22	0.60
1:J:533:LEU:C	1:J:533:LEU:HD12	2.22	0.60
1:C:54:LEU:N	1:C:54:LEU:HD23	2.15	0.60
1:K:36:TRP:O	1:K:37:ARG:HD3	2.02	0.60
1:L:37:ARG:NH2	1:L:218:PRO:HD3	2.17	0.60
1:A:36:TRP:O	1:A:37:ARG:HD3	2.02	0.60
1:P:945:ASN:OD1	1:P:950:GLN:NE2	2.30	0.60
1:N:261:TRP:CH2	1:N:266:GLN:HB2	2.37	0.60
1:F:1011:ALA:HB3	1:F:1014:TYR:CZ	2.37	0.60
1:I:261:TRP:CH2	1:I:266:GLN:HB2	2.37	0.60
1:P:14:ARG:HA	1:P:16:TRP:CZ3	2.37	0.60
1:D:14:ARG:HA	1:D:16:TRP:CZ3	2.37	0.60
1:F:873:ALA:O	1:F:876:THR:HG22	2.02	0.60
1:B:753:ASN:OD1	1:B:753:ASN:N	2.30	0.60
1:H:772:ASP:OD1	1:H:772:ASP:N	2.30	0.60
1:E:14:ARG:HA	1:E:16:TRP:CZ3	2.37	0.60
1:L:689:GLU:OE2	1:L:689:GLU:HA	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:194:GLY:O	1:D:198:GLU:HG3	2.00	0.60
1:C:460:ASN:ND2	1:C:461:GLU:HG3	2.17	0.60
1:N:873:ALA:O	1:N:876:THR:HG22	2.02	0.60
1:O:18:ASN:HD22	1:O:21:VAL:HG23	1.64	0.59
1:B:578:TYR:HA	1:B:583:ASN:O	2.00	0.59
1:A:7:LEU:N	1:A:71:GLU:OE2	2.35	0.59
1:A:1021:CME:HB3	1:A:1021:CME:HZ3	1.83	0.59
1:H:533:LEU:C	1:H:533:LEU:HD12	2.22	0.59
1:P:533:LEU:C	1:P:533:LEU:HD12	2.22	0.59
1:O:37:ARG:NH2	1:O:218:PRO:HD3	2.17	0.59
1:C:23:GLN:OE1	1:C:26:ARG:HB3	2.02	0.59
1:G:37:ARG:NH2	1:G:218:PRO:HD3	2.17	0.59
1:F:662:PRO:O	1:F:663:LEU:HD23	2.01	0.59
1:D:662:PRO:O	1:D:663:LEU:HD23	2.01	0.59
1:J:125:LEU:HG	1:J:126:THR:N	2.16	0.59
1:K:579:ASP:OD1	1:K:583:ASN:HB2	2.03	0.59
1:A:125:LEU:HG	1:A:126:THR:N	2.16	0.59
1:I:125:LEU:HG	1:I:126:THR:N	2.16	0.59
1:B:30:HIS:ND1	1:B:31:PRO:O	2.26	0.59
1:M:579:ASP:OD1	1:M:583:ASN:HB2	2.02	0.59
1:E:1011:ALA:HB3	1:E:1014:TYR:CZ	2.37	0.59
1:J:873:ALA:O	1:J:876:THR:HG22	2.02	0.59
1:M:460:ASN:ND2	1:M:461:GLU:HG3	2.17	0.59
1:I:502:MET:HB2	1:I:537:GLU:HB2	1.84	0.59
1:D:261:TRP:CH2	1:D:266:GLN:HB2	2.37	0.59
1:E:261:TRP:CH2	1:E:266:GLN:HB2	2.37	0.59
1:E:18:ASN:HD22	1:E:21:VAL:HG23	1.64	0.59
1:J:57:GLU:HG2	1:J:83:THR:HG23	1.85	0.59
1:O:7:LEU:N	1:O:71:GLU:OE2	2.35	0.59
1:D:360:HIS:CE1	1:D:361:PRO:HD2	2.36	0.59
1:O:1021:CME:HZ3	1:O:1021:CME:HB3	1.84	0.59
1:M:7:LEU:N	1:M:71:GLU:OE2	2.35	0.59
1:C:533:LEU:HD12	1:C:533:LEU:C	2.22	0.59
1:O:533:LEU:HD12	1:O:533:LEU:C	2.22	0.59
1:C:36:TRP:O	1:C:37:ARG:HD3	2.02	0.59
1:J:23:GLN:OE1	1:J:26:ARG:HB3	2.03	0.59
1:I:23:GLN:OE1	1:I:26:ARG:HB3	2.02	0.59
1:B:125:LEU:HG	1:B:126:THR:N	2.16	0.59
1:M:30:HIS:HB2	1:M:31:PRO:CD	2.33	0.59
1:D:30:HIS:ND1	1:D:31:PRO:O	2.27	0.59
1:F:178:ARG:NH1	1:F:181:GLU:O	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:460:ASN:ND2	1:F:461:GLU:HG3	2.17	0.59
1:K:873:ALA:O	1:K:876:THR:HG22	2.02	0.59
1:J:261:TRP:CH2	1:J:266:GLN:HB2	2.37	0.59
1:I:849:LEU:N	1:I:849:LEU:HD23	2.17	0.59
1:F:849:LEU:N	1:F:849:LEU:HD23	2.17	0.59
1:G:873:ALA:O	1:G:876:THR:HG22	2.02	0.59
1:F:261:TRP:CH2	1:F:266:GLN:HB2	2.37	0.59
1:G:18:ASN:HD22	1:G:21:VAL:HG23	1.64	0.59
1:A:57:GLU:HG2	1:A:83:THR:HG23	1.85	0.59
1:H:651:LEU:HD13	1:H:669:PRO:HA	1.82	0.59
1:O:57:GLU:HG2	1:O:83:THR:HG23	1.85	0.59
1:J:579:ASP:OD1	1:J:583:ASN:HB2	2.03	0.59
1:M:1021:CME:OH	1:M:1023:LYS:HG2	2.03	0.59
1:I:1021:CME:OH	1:I:1023:LYS:HG2	2.03	0.59
1:K:1021:CME:HZ3	1:K:1021:CME:HB3	1.84	0.59
1:G:1021:CME:OH	1:G:1023:LYS:HG2	2.03	0.59
1:L:822:LEU:CD1	1:L:824:GLN:H	2.16	0.59
1:M:822:LEU:CD1	1:M:824:GLN:H	2.16	0.59
1:B:23:GLN:OE1	1:B:26:ARG:HB3	2.02	0.59
1:G:23:GLN:OE1	1:G:26:ARG:HB3	2.02	0.59
1:M:23:GLN:OE1	1:M:26:ARG:HB3	2.02	0.59
1:E:36:TRP:O	1:E:37:ARG:HD3	2.02	0.59
1:G:662:PRO:O	1:G:663:LEU:HD23	2.01	0.59
1:E:125:LEU:HG	1:E:126:THR:N	2.16	0.59
1:B:30:HIS:HB2	1:B:31:PRO:CD	2.33	0.59
1:H:30:HIS:HB2	1:H:31:PRO:CD	2.32	0.59
1:C:579:ASP:OD1	1:C:583:ASN:HB2	2.03	0.59
1:H:579:ASP:OD1	1:H:583:ASN:HB2	2.02	0.59
1:M:14:ARG:HA	1:M:16:TRP:CZ3	2.37	0.59
1:D:502:MET:HB2	1:D:537:GLU:HB2	1.84	0.59
1:H:1011:ALA:HB3	1:H:1014:TYR:CZ	2.37	0.59
1:H:261:TRP:CH2	1:H:266:GLN:HB2	2.37	0.59
1:E:873:ALA:O	1:E:876:THR:HG22	2.02	0.59
1:J:14:ARG:HA	1:J:16:TRP:CZ3	2.37	0.59
1:J:502:MET:HB2	1:J:537:GLU:HB2	1.84	0.59
1:G:753:ASN:OD1	1:G:753:ASN:N	2.30	0.59
1:K:261:TRP:CH2	1:K:266:GLN:HB2	2.37	0.59
1:J:460:ASN:ND2	1:J:461:GLU:HG3	2.17	0.59
1:I:1011:ALA:HB3	1:I:1014:TYR:CZ	2.37	0.59
1:H:502:MET:HB2	1:H:537:GLU:HB2	1.84	0.59
1:M:18:ASN:HD22	1:M:21:VAL:HG23	1.64	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:323:ILE:HD12	1:G:323:ILE:N	2.16	0.59
1:G:579:ASP:OD1	1:G:583:ASN:HB2	2.03	0.59
1:D:894:ARG:NH1	1:D:919:ASP:OD2	2.30	0.59
1:J:1021:CME:OH	1:J:1023:LYS:HG2	2.03	0.59
1:B:37:ARG:NH2	1:B:218:PRO:HD3	2.17	0.59
1:O:23:GLN:OE1	1:O:26:ARG:HB3	2.02	0.59
1:D:30:HIS:HB2	1:D:31:PRO:CD	2.32	0.59
1:C:502:MET:HB2	1:C:537:GLU:HB2	1.84	0.59
1:P:873:ALA:O	1:P:876:THR:HG22	2.02	0.59
1:D:873:ALA:O	1:D:876:THR:HG22	2.02	0.59
1:G:460:ASN:ND2	1:G:461:GLU:HG3	2.17	0.59
1:I:14:ARG:HA	1:I:16:TRP:CZ3	2.37	0.59
1:N:460:ASN:ND2	1:N:461:GLU:HG3	2.17	0.59
1:O:178:ARG:NH1	1:O:181:GLU:O	2.33	0.59
1:O:689:GLU:OE2	1:O:689:GLU:HA	2.01	0.59
1:L:1011:ALA:HB3	1:L:1014:TYR:CZ	2.37	0.59
1:C:1011:ALA:HB3	1:C:1014:TYR:CZ	2.37	0.59
1:M:57:GLU:HG2	1:M:83:THR:HG23	1.85	0.59
1:E:579:ASP:OD1	1:E:583:ASN:HB2	2.03	0.59
1:A:249:GLU:HG2	1:A:251:ARG:HH12	1.67	0.59
1:H:1021:CME:OH	1:H:1023:LYS:HG2	2.03	0.59
1:B:822:LEU:CD1	1:B:824:GLN:H	2.16	0.59
1:G:36:TRP:O	1:G:37:ARG:HD3	2.02	0.59
1:D:37:ARG:NH2	1:D:218:PRO:HD3	2.17	0.59
1:K:856:TYR:CD2	1:K:864:MET:HE2	2.38	0.59
1:L:30:HIS:HB2	1:L:31:PRO:CD	2.33	0.59
1:M:178:ARG:NH1	1:M:181:GLU:O	2.33	0.59
1:O:14:ARG:HA	1:O:16:TRP:CZ3	2.37	0.59
1:D:272:ALA:HB1	1:D:273:PRO:HD2	1.85	0.59
1:M:873:ALA:O	1:M:876:THR:HG22	2.02	0.59
1:N:849:LEU:N	1:N:849:LEU:HD23	2.17	0.59
1:H:57:GLU:HG2	1:H:83:THR:HG23	1.84	0.59
1:B:579:ASP:OD1	1:B:583:ASN:HB2	2.03	0.59
1:K:7:LEU:N	1:K:71:GLU:OE2	2.35	0.59
1:N:249:GLU:HG2	1:N:251:ARG:HH12	1.67	0.59
1:F:822:LEU:CD1	1:F:824:GLN:H	2.16	0.59
1:M:533:LEU:HD12	1:M:533:LEU:C	2.22	0.59
1:B:856:TYR:CD2	1:B:864:MET:HE2	2.36	0.59
1:K:30:HIS:HB2	1:K:31:PRO:CD	2.33	0.59
1:L:4:THR:HA	1:L:9:VAL:HG11	1.82	0.59
1:I:30:HIS:HB2	1:I:31:PRO:CD	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:30:HIS:HB2	1:A:31:PRO:CD	2.33	0.59
1:L:272:ALA:HB1	1:L:273:PRO:HD2	1.85	0.59
1:G:14:ARG:HA	1:G:16:TRP:CZ3	2.37	0.59
1:O:873:ALA:O	1:O:876:THR:HG22	2.02	0.59
1:K:14:ARG:HA	1:K:16:TRP:CZ3	2.37	0.59
1:B:849:LEU:HD23	1:B:849:LEU:N	2.17	0.59
1:L:849:LEU:HD23	1:L:849:LEU:N	2.17	0.59
1:I:7:LEU:N	1:I:71:GLU:OE2	2.35	0.59
1:D:7:LEU:N	1:D:71:GLU:OE2	2.35	0.59
1:B:1021:CME:OH	1:B:1023:LYS:HG2	2.03	0.59
1:D:1021:CME:OH	1:D:1023:LYS:HG2	2.03	0.59
1:E:255:ARG:NH1	1:E:255:ARG:HG2	2.14	0.59
1:J:37:ARG:NH2	1:J:218:PRO:HD3	2.17	0.59
1:L:437:SER:HB2	5:L:2258:HOH:O	2.01	0.59
1:I:873:ALA:O	1:I:876:THR:HG22	2.02	0.59
1:A:261:TRP:CZ3	1:A:266:GLN:HB2	2.38	0.59
1:G:178:ARG:NH1	1:G:181:GLU:O	2.33	0.59
1:B:261:TRP:CH2	1:B:266:GLN:HB2	2.37	0.59
1:N:178:ARG:NH1	1:N:181:GLU:O	2.33	0.59
1:O:261:TRP:CH2	1:O:266:GLN:HB2	2.37	0.59
1:J:272:ALA:HB1	1:J:273:PRO:HD2	1.85	0.59
1:I:178:ARG:NH1	1:I:181:GLU:O	2.33	0.59
1:P:502:MET:HB2	1:P:537:GLU:HB2	1.84	0.59
1:G:849:LEU:N	1:G:849:LEU:HD23	2.17	0.59
1:O:1011:ALA:HB3	1:O:1014:TYR:CZ	2.37	0.59
1:E:178:ARG:NH1	1:E:181:GLU:O	2.33	0.59
1:I:493:THR:HG23	5:I:2113:HOH:O	2.03	0.59
1:H:873:ALA:O	1:H:876:THR:HG22	2.02	0.59
1:C:745:MET:HE2	1:C:745:MET:HA	1.85	0.59
1:P:1021:CME:OH	1:P:1023:LYS:HG2	2.03	0.59
1:M:255:ARG:NH1	1:M:255:ARG:HG2	2.14	0.59
1:C:763:GLY:HA3	1:C:822:LEU:CD2	2.33	0.59
1:N:763:GLY:HA3	1:N:822:LEU:CD2	2.33	0.59
1:I:763:GLY:HA3	1:I:822:LEU:CD2	2.33	0.59
1:I:54:LEU:HD23	1:I:54:LEU:N	2.15	0.59
1:B:36:TRP:O	1:B:37:ARG:HD3	2.02	0.59
1:E:37:ARG:NH2	1:E:218:PRO:HD3	2.17	0.59
1:D:36:TRP:O	1:D:37:ARG:HD3	2.02	0.59
1:F:125:LEU:HG	1:F:126:THR:N	2.16	0.59
1:P:125:LEU:HG	1:P:126:THR:N	2.16	0.59
1:J:30:HIS:HB2	1:J:31:PRO:CD	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:30:HIS:HB2	1:N:31:PRO:CD	2.33	0.59
1:G:30:HIS:HB2	1:G:31:PRO:CD	2.33	0.59
1:O:30:HIS:HB2	1:O:31:PRO:CD	2.33	0.59
1:P:261:TRP:CZ3	1:P:266:GLN:HB2	2.38	0.59
1:B:261:TRP:CZ3	1:B:266:GLN:HB2	2.38	0.59
1:O:261:TRP:CZ3	1:O:266:GLN:HB2	2.38	0.59
1:J:906:TYR:HB3	1:J:907:PRO:HD2	1.85	0.59
1:M:261:TRP:CH2	1:M:266:GLN:HB2	2.37	0.59
1:A:502:MET:HB2	1:A:537:GLU:HB2	1.84	0.59
1:P:473:ARG:O	1:P:473:ARG:HD3	2.03	0.59
1:A:460:ASN:ND2	1:A:461:GLU:HG3	2.17	0.59
1:H:730:LEU:HB3	1:H:731:PRO:HD2	1.85	0.59
1:O:849:LEU:HD23	1:O:849:LEU:N	2.17	0.59
1:K:849:LEU:N	1:K:849:LEU:HD23	2.17	0.59
1:J:427:THR:HA	1:J:436:MET:HE2	1.83	0.59
1:B:249:GLU:HG2	1:B:251:ARG:HH12	1.67	0.59
1:C:822:LEU:CD1	1:C:824:GLN:H	2.16	0.59
1:L:166:ARG:HG3	1:L:392:TYR:HB2	1.85	0.59
1:N:166:ARG:HG3	1:N:392:TYR:HB2	1.85	0.59
1:F:166:ARG:HG3	1:F:392:TYR:HB2	1.85	0.59
1:F:763:GLY:HA3	1:F:822:LEU:CD2	2.33	0.59
1:O:54:LEU:HD23	1:O:54:LEU:N	2.15	0.59
1:E:23:GLN:OE1	1:E:26:ARG:HB3	2.02	0.59
1:B:662:PRO:O	1:B:663:LEU:HD23	2.01	0.59
1:F:30:HIS:HB2	1:F:31:PRO:CD	2.33	0.59
1:A:30:HIS:ND1	1:A:31:PRO:O	2.26	0.59
1:H:261:TRP:CZ3	1:H:266:GLN:HB2	2.38	0.59
1:P:493:THR:HG23	5:P:2118:HOH:O	2.03	0.59
1:D:493:THR:HG23	5:D:2119:HOH:O	2.03	0.59
1:C:873:ALA:O	1:C:876:THR:HG22	2.02	0.59
1:H:14:ARG:HA	1:H:16:TRP:CZ3	2.37	0.59
1:B:460:ASN:ND2	1:B:461:GLU:HG3	2.17	0.59
1:N:473:ARG:HD3	1:N:473:ARG:O	2.03	0.59
1:M:493:THR:HG23	5:M:2113:HOH:O	2.03	0.59
1:O:473:ARG:HD3	1:O:473:ARG:O	2.03	0.59
1:E:772:ASP:OD1	1:E:772:ASP:N	2.30	0.59
1:A:849:LEU:N	1:A:849:LEU:HD23	2.17	0.59
1:P:730:LEU:HB3	1:P:731:PRO:HD2	1.85	0.59
1:M:473:ARG:HD3	1:M:473:ARG:O	2.03	0.59
1:P:906:TYR:HB3	1:P:907:PRO:HD2	1.85	0.59
1:L:502:MET:HB2	1:L:537:GLU:HB2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:57:GLU:HG2	1:G:83:THR:HG23	1.85	0.59
1:C:57:GLU:HG2	1:C:83:THR:HG23	1.85	0.59
1:L:57:GLU:HG2	1:L:83:THR:HG23	1.84	0.59
1:D:249:GLU:HG2	1:D:251:ARG:HH12	1.67	0.59
1:C:1021:CME:OH	1:C:1023:LYS:HG2	2.03	0.59
1:K:763:GLY:HA3	1:K:822:LEU:CD2	2.33	0.59
1:P:763:GLY:HA3	1:P:822:LEU:CD2	2.33	0.59
1:H:763:GLY:HA3	1:H:822:LEU:CD2	2.33	0.59
1:D:54:LEU:N	1:D:54:LEU:HD23	2.15	0.59
1:H:37:ARG:NH2	1:H:218:PRO:HD3	2.17	0.59
1:N:36:TRP:O	1:N:37:ARG:HD3	2.02	0.59
1:N:261:TRP:CZ3	1:N:266:GLN:HB2	2.38	0.59
1:K:473:ARG:O	1:K:473:ARG:HD3	2.03	0.59
1:F:272:ALA:HB1	1:F:273:PRO:HD2	1.85	0.59
1:N:1011:ALA:HB3	1:N:1014:TYR:CZ	2.37	0.59
1:K:945:ASN:OD1	1:K:950:GLN:NE2	2.30	0.59
1:K:493:THR:HG23	5:K:2113:HOH:O	2.03	0.59
1:G:730:LEU:HB3	1:G:731:PRO:HD2	1.85	0.59
1:H:906:TYR:HB3	1:H:907:PRO:HD2	1.85	0.59
1:N:272:ALA:HB1	1:N:273:PRO:HD2	1.85	0.59
1:F:493:THR:HG23	5:F:2113:HOH:O	2.03	0.59
1:G:1011:ALA:HB3	1:G:1014:TYR:CZ	2.37	0.59
1:C:261:TRP:CZ3	1:C:266:GLN:HB2	2.38	0.59
1:C:473:ARG:HD3	1:C:473:ARG:O	2.03	0.59
1:M:945:ASN:OD1	1:M:950:GLN:NE2	2.30	0.59
1:L:873:ALA:O	1:L:876:THR:HG22	2.02	0.59
1:C:178:ARG:NH1	1:C:181:GLU:O	2.33	0.59
1:O:730:LEU:HB3	1:O:731:PRO:HD2	1.85	0.59
1:A:493:THR:HG23	5:A:2113:HOH:O	2.03	0.59
1:I:473:ARG:HD3	1:I:473:ARG:O	2.03	0.59
1:H:945:ASN:OD1	1:H:950:GLN:NE2	2.30	0.59
1:E:291:LEU:HD12	1:E:291:LEU:N	2.18	0.59
1:I:287:ASP:OD2	1:L:425:ARG:NH2	2.36	0.59
1:H:493:THR:HG23	5:H:2113:HOH:O	2.03	0.59
1:A:778:THR:HB	1:A:887:GLN:HB3	1.85	0.59
1:L:261:TRP:CH2	1:L:266:GLN:HB2	2.37	0.59
1:P:579:ASP:OD1	1:P:583:ASN:HB2	2.03	0.58
1:B:7:LEU:N	1:B:71:GLU:OE2	2.35	0.58
1:F:1021:CME:OH	1:F:1023:LYS:HG2	2.02	0.58
1:E:763:GLY:HA3	1:E:822:LEU:CD2	2.33	0.58
1:A:533:LEU:HD12	1:A:533:LEU:C	2.22	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:54:LEU:HD23	1:B:54:LEU:N	2.15	0.58
1:N:54:LEU:HD23	1:N:54:LEU:N	2.15	0.58
1:D:23:GLN:OE1	1:D:26:ARG:HB3	2.02	0.58
1:H:36:TRP:O	1:H:37:ARG:HD3	2.02	0.58
1:F:23:GLN:OE1	1:F:26:ARG:HB3	2.02	0.58
1:N:23:GLN:OE1	1:N:26:ARG:HB3	2.02	0.58
1:C:125:LEU:HG	1:C:126:THR:N	2.16	0.58
1:K:261:TRP:CZ3	1:K:266:GLN:HB2	2.38	0.58
1:C:261:TRP:CH2	1:C:266:GLN:HB2	2.37	0.58
1:K:778:THR:HB	1:K:887:GLN:HB3	1.85	0.58
1:H:473:ARG:HD3	1:H:473:ARG:O	2.03	0.58
1:P:291:LEU:HD12	1:P:291:LEU:N	2.18	0.58
1:M:291:LEU:HD12	1:M:291:LEU:N	2.18	0.58
1:P:460:ASN:ND2	1:P:461:GLU:HG3	2.17	0.58
1:F:429:ASP:OD1	1:F:430:PRO:HD2	2.03	0.58
1:D:1011:ALA:HB3	1:D:1014:TYR:CZ	2.37	0.58
1:H:18:ASN:HD22	1:H:21:VAL:HG23	1.64	0.58
1:I:7:LEU:HD13	1:I:74:LEU:CD1	2.32	0.58
1:O:579:ASP:OD1	1:O:583:ASN:HB2	2.03	0.58
1:N:579:ASP:OD1	1:N:583:ASN:HB2	2.03	0.58
1:E:1021:CME:OH	1:E:1023:LYS:HG2	2.03	0.58
1:D:763:GLY:HA3	1:D:822:LEU:CD2	2.33	0.58
1:O:166:ARG:HG3	1:O:392:TYR:HB2	1.85	0.58
1:G:166:ARG:HG3	1:G:392:TYR:HB2	1.85	0.58
1:I:166:ARG:HG3	1:I:392:TYR:HB2	1.85	0.58
1:J:54:LEU:HD23	1:J:54:LEU:N	2.15	0.58
1:P:37:ARG:NH2	1:P:218:PRO:HD3	2.17	0.58
1:F:37:ARG:NH2	1:F:218:PRO:HD3	2.17	0.58
1:A:37:ARG:NH2	1:A:218:PRO:HD3	2.17	0.58
1:L:125:LEU:HG	1:L:126:THR:N	2.16	0.58
1:D:261:TRP:CZ3	1:D:266:GLN:HB2	2.38	0.58
1:L:261:TRP:CZ3	1:L:266:GLN:HB2	2.38	0.58
1:H:429:ASP:OD1	1:H:430:PRO:HD2	2.03	0.58
1:F:473:ARG:HD3	1:F:473:ARG:O	2.03	0.58
1:F:945:ASN:OD1	1:F:950:GLN:NE2	2.30	0.58
1:B:272:ALA:HB1	1:B:273:PRO:HD2	1.85	0.58
1:O:502:MET:HB2	1:O:537:GLU:HB2	1.84	0.58
1:L:778:THR:HB	1:L:887:GLN:HB3	1.85	0.58
1:I:645:ARG:NH2	1:I:650:GLU:OE1	2.37	0.58
1:M:772:ASP:N	1:M:772:ASP:OD1	2.30	0.58
1:N:493:THR:HG23	5:N:2116:HOH:O	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:849:LEU:HD23	1:E:849:LEU:N	2.17	0.58
1:G:502:MET:HB2	1:G:537:GLU:HB2	1.84	0.58
1:E:730:LEU:HB3	1:E:731:PRO:HD2	1.85	0.58
1:D:427:THR:HA	1:D:436:MET:HE2	1.84	0.58
1:K:18:ASN:HD22	1:K:21:VAL:HG23	1.64	0.58
1:P:57:GLU:HG2	1:P:83:THR:HG23	1.85	0.58
1:K:7:LEU:HD13	1:K:74:LEU:CD1	2.32	0.58
1:J:763:GLY:HA3	1:J:822:LEU:CD2	2.33	0.58
1:G:822:LEU:CD1	1:G:824:GLN:H	2.16	0.58
1:M:730:LEU:HB3	1:M:731:PRO:HD2	1.85	0.58
1:B:166:ARG:HG3	1:B:392:TYR:HB2	1.85	0.58
1:E:533:LEU:HD12	1:E:533:LEU:C	2.22	0.58
1:K:54:LEU:HD23	1:K:54:LEU:N	2.15	0.58
1:A:54:LEU:HD23	1:A:54:LEU:N	2.15	0.58
1:E:372:MET:HE1	1:E:395:HIS:HB3	1.84	0.58
1:K:37:ARG:NH2	1:K:218:PRO:HD3	2.17	0.58
1:I:36:TRP:O	1:I:37:ARG:HD3	2.02	0.58
1:N:37:ARG:NH2	1:N:218:PRO:HD3	2.17	0.58
1:M:37:ARG:NH2	1:M:218:PRO:HD3	2.17	0.58
1:C:30:HIS:HB2	1:C:31:PRO:CD	2.32	0.58
1:P:30:HIS:HB2	1:P:31:PRO:CD	2.33	0.58
1:E:645:ARG:NH2	1:E:650:GLU:OE1	2.37	0.58
1:J:493:THR:HG23	5:J:2113:HOH:O	2.03	0.58
1:E:473:ARG:HD3	1:E:473:ARG:O	2.03	0.58
1:O:291:LEU:N	1:O:291:LEU:HD12	2.18	0.58
1:C:730:LEU:HB3	1:C:731:PRO:HD2	1.85	0.58
1:F:291:LEU:N	1:F:291:LEU:HD12	2.18	0.58
1:N:291:LEU:HD12	1:N:291:LEU:N	2.18	0.58
1:H:291:LEU:N	1:H:291:LEU:HD12	2.18	0.58
1:B:291:LEU:N	1:B:291:LEU:HD12	2.18	0.58
1:L:473:ARG:HD3	1:L:473:ARG:O	2.03	0.58
1:B:493:THR:HG23	5:B:2116:HOH:O	2.03	0.58
1:A:873:ALA:O	1:A:876:THR:HG22	2.02	0.58
1:D:730:LEU:HB3	1:D:731:PRO:HD2	1.85	0.58
1:K:906:TYR:HB3	1:K:907:PRO:HD2	1.85	0.58
1:E:272:ALA:HB1	1:E:273:PRO:HD2	1.85	0.58
1:M:429:ASP:OD1	1:M:430:PRO:HD2	2.03	0.58
1:C:580:GLU:H	1:C:580:GLU:CD	2.07	0.58
1:A:579:ASP:OD1	1:A:583:ASN:HB2	2.03	0.58
1:N:1021:CME:OH	1:N:1023:LYS:HG2	2.03	0.58
1:K:894:ARG:NH1	1:K:919:ASP:OD2	2.30	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1021:CME:OH	1:A:1023:LYS:HG2	2.03	0.58
1:L:763:GLY:HA3	1:L:822:LEU:CD2	2.33	0.58
1:C:37:ARG:NH2	1:C:218:PRO:HD3	2.17	0.58
1:P:23:GLN:OE1	1:P:26:ARG:HB3	2.02	0.58
1:F:36:TRP:O	1:F:37:ARG:HD3	2.02	0.58
1:C:662:PRO:O	1:C:663:LEU:HD23	2.01	0.58
1:I:282:ARG:NH1	1:L:419:GLY:HA2	2.18	0.58
1:D:579:ASP:OD1	1:D:583:ASN:HB2	2.03	0.58
1:E:261:TRP:CZ3	1:E:266:GLN:HB2	2.38	0.58
1:M:261:TRP:CZ3	1:M:266:GLN:HB2	2.38	0.58
1:G:261:TRP:CH2	1:G:266:GLN:HB2	2.37	0.58
1:G:473:ARG:HD3	1:G:473:ARG:O	2.03	0.58
1:A:906:TYR:HB3	1:A:907:PRO:HD2	1.85	0.58
1:E:493:THR:HG23	5:E:2113:HOH:O	2.03	0.58
1:C:429:ASP:OD1	1:C:430:PRO:HD2	2.03	0.58
1:B:502:MET:HB2	1:B:537:GLU:HB2	1.84	0.58
1:N:906:TYR:HB3	1:N:907:PRO:HD2	1.85	0.58
1:N:730:LEU:HB3	1:N:731:PRO:HD2	1.85	0.58
1:C:291:LEU:HD12	1:C:291:LEU:N	2.18	0.58
1:C:849:LEU:HD23	1:C:849:LEU:N	2.17	0.58
1:L:291:LEU:HD12	1:L:291:LEU:N	2.18	0.58
1:A:291:LEU:HD12	1:A:291:LEU:N	2.18	0.58
1:P:645:ARG:NH2	1:P:650:GLU:OE1	2.37	0.58
1:D:473:ARG:HD3	1:D:473:ARG:O	2.03	0.58
1:F:906:TYR:HB3	1:F:907:PRO:HD2	1.85	0.58
1:D:668:VAL:CG1	1:D:669:PRO:HD2	2.31	0.58
1:F:579:ASP:OD1	1:F:583:ASN:HB2	2.02	0.58
1:G:249:GLU:HG2	1:G:251:ARG:HH12	1.67	0.58
1:A:166:ARG:HG3	1:A:392:TYR:HB2	1.85	0.58
1:M:166:ARG:HG3	1:M:392:TYR:HB2	1.85	0.58
1:P:36:TRP:O	1:P:37:ARG:HD3	2.02	0.58
1:G:261:TRP:CZ3	1:G:266:GLN:HB2	2.38	0.58
1:B:423:MET:HB2	1:C:282:ARG:HG3	1.85	0.58
1:D:778:THR:HB	1:D:887:GLN:HB3	1.85	0.58
1:F:580:GLU:CD	1:F:580:GLU:H	2.07	0.58
1:D:429:ASP:OD1	1:D:430:PRO:HD2	2.03	0.58
1:O:272:ALA:HB1	1:O:273:PRO:HD2	1.85	0.58
1:I:291:LEU:N	1:I:291:LEU:HD12	2.18	0.58
1:M:130:ASP:OD1	1:M:132:SER:N	2.29	0.58
1:G:291:LEU:N	1:G:291:LEU:HD12	2.18	0.58
1:D:645:ARG:NH2	1:D:650:GLU:OE1	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:945:ASN:OD1	1:C:950:GLN:NE2	2.30	0.58
1:K:730:LEU:HB3	1:K:731:PRO:HD2	1.85	0.58
1:G:429:ASP:OD1	1:G:430:PRO:HD2	2.03	0.58
1:K:57:GLU:HG2	1:K:83:THR:HG23	1.84	0.58
1:J:249:GLU:HG2	1:J:251:ARG:HH12	1.67	0.58
1:O:822:LEU:CD1	1:O:824:GLN:H	2.15	0.58
1:E:166:ARG:HG3	1:E:392:TYR:HB2	1.85	0.58
1:B:763:GLY:HA3	1:B:822:LEU:CD2	2.33	0.58
1:L:23:GLN:OE1	1:L:26:ARG:HB3	2.02	0.58
1:H:23:GLN:OE1	1:H:26:ARG:HB3	2.02	0.58
1:A:23:GLN:OE1	1:A:26:ARG:HB3	2.02	0.58
1:K:23:GLN:OE1	1:K:26:ARG:HB3	2.02	0.58
1:A:14:ARG:HA	1:A:16:TRP:CZ3	2.37	0.58
1:C:272:ALA:HB1	1:C:273:PRO:HD2	1.85	0.58
1:N:645:ARG:NH2	1:N:650:GLU:OE1	2.37	0.58
1:P:849:LEU:HD23	1:P:849:LEU:N	2.17	0.58
1:M:849:LEU:N	1:M:849:LEU:HD23	2.17	0.58
1:N:668:VAL:CG1	1:N:669:PRO:HD2	2.31	0.58
1:O:1021:CME:OH	1:O:1023:LYS:HG2	2.03	0.58
1:J:1021:CME:HB3	1:J:1021:CME:HZ3	1.84	0.58
1:J:822:LEU:CD1	1:J:824:GLN:H	2.16	0.58
1:G:763:GLY:HA3	1:G:822:LEU:CD2	2.33	0.58
1:L:54:LEU:HD23	1:L:54:LEU:N	2.15	0.58
1:L:579:ASP:OD1	1:L:583:ASN:HB2	2.03	0.58
1:D:580:GLU:CD	1:D:580:GLU:H	2.07	0.58
1:F:645:ARG:NH2	1:F:650:GLU:OE1	2.37	0.58
1:M:272:ALA:HB1	1:M:273:PRO:HD2	1.85	0.58
1:G:272:ALA:HB1	1:G:273:PRO:HD2	1.85	0.58
1:K:580:GLU:HG2	1:K:581:ASN:OD1	2.04	0.58
1:E:580:GLU:H	1:E:580:GLU:CD	2.07	0.58
1:K:502:MET:HB2	1:K:537:GLU:HB2	1.84	0.58
1:I:272:ALA:HB1	1:I:273:PRO:HD2	1.85	0.58
1:N:580:GLU:H	1:N:580:GLU:CD	2.07	0.58
1:K:291:LEU:HD12	1:K:291:LEU:N	2.18	0.58
1:E:906:TYR:HB3	1:E:907:PRO:HD2	1.85	0.58
1:P:740:LEU:CD1	1:P:741:THR:H	2.12	0.58
1:I:668:VAL:CG1	1:I:669:PRO:HD2	2.31	0.58
1:B:316:HIS:HD2	1:B:317:THR:O	1.87	0.58
1:N:57:GLU:HG2	1:N:83:THR:HG23	1.84	0.58
1:C:7:LEU:HD13	1:C:74:LEU:CD1	2.32	0.58
1:L:1021:CME:OH	1:L:1023:LYS:HG2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:372:MET:HE1	1:J:395:HIS:HB3	1.84	0.58
1:I:261:TRP:CZ3	1:I:266:GLN:HB2	2.38	0.58
1:J:261:TRP:CZ3	1:J:266:GLN:HB2	2.38	0.58
1:K:580:GLU:H	1:K:580:GLU:CD	2.07	0.58
1:K:645:ARG:NH2	1:K:650:GLU:OE1	2.37	0.58
1:F:730:LEU:HB3	1:F:731:PRO:HD2	1.85	0.58
1:L:645:ARG:NH2	1:L:650:GLU:OE1	2.37	0.58
1:C:778:THR:HB	1:C:887:GLN:HB3	1.85	0.58
1:O:645:ARG:NH2	1:O:650:GLU:OE1	2.37	0.58
1:A:730:LEU:HB3	1:A:731:PRO:HD2	1.85	0.58
1:E:429:ASP:OD1	1:E:430:PRO:HD2	2.03	0.58
1:M:645:ARG:NH2	1:M:650:GLU:OE1	2.37	0.58
1:J:291:LEU:N	1:J:291:LEU:HD12	2.18	0.58
1:J:645:ARG:NH2	1:J:650:GLU:OE1	2.37	0.58
1:H:778:THR:HB	1:H:887:GLN:HB3	1.85	0.58
1:E:316:HIS:HD2	1:E:317:THR:O	1.87	0.58
1:A:763:GLY:HA3	1:A:822:LEU:CD2	2.33	0.58
1:M:30:HIS:ND1	1:M:31:PRO:O	2.26	0.58
1:E:30:HIS:HB2	1:E:31:PRO:CD	2.33	0.58
1:C:130:ASP:OD1	1:C:132:SER:N	2.29	0.58
1:H:153:TRP:CD1	1:H:158:TRP:HA	2.39	0.58
1:E:945:ASN:OD1	1:E:950:GLN:NE2	2.30	0.58
1:I:429:ASP:OD1	1:I:430:PRO:HD2	2.03	0.58
1:I:153:TRP:CD1	1:I:158:TRP:HA	2.39	0.58
1:L:493:THR:HG23	5:L:2113:HOH:O	2.03	0.58
1:C:906:TYR:HB3	1:C:907:PRO:HD2	1.85	0.58
1:M:580:GLU:CD	1:M:580:GLU:H	2.07	0.58
1:M:580:GLU:HG2	1:M:581:ASN:OD1	2.04	0.58
1:K:153:TRP:CD1	1:K:158:TRP:HA	2.39	0.58
1:H:849:LEU:N	1:H:849:LEU:HD23	2.17	0.58
1:N:778:THR:HB	1:N:887:GLN:HB3	1.85	0.58
1:A:153:TRP:CD1	1:A:158:TRP:HA	2.39	0.58
1:H:740:LEU:CD1	1:H:741:THR:H	2.12	0.58
1:G:316:HIS:HD2	1:G:317:THR:O	1.87	0.58
1:M:316:HIS:CA	1:M:323:ILE:HD13	2.32	0.58
1:F:7:LEU:HD13	1:F:74:LEU:CD1	2.32	0.58
1:N:7:LEU:HD13	1:N:74:LEU:CD1	2.32	0.58
1:I:579:ASP:OD1	1:I:583:ASN:HB2	2.03	0.58
1:K:1021:CME:OH	1:K:1023:LYS:HG2	2.03	0.58
1:F:166:ARG:HG3	1:F:392:TYR:CB	2.34	0.58
1:D:166:ARG:HG3	1:D:392:TYR:HB2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:166:ARG:HG3	1:I:392:TYR:CB	2.34	0.58
1:F:261:TRP:CZ3	1:F:266:GLN:HB2	2.38	0.58
1:A:261:TRP:CH2	1:A:266:GLN:HB2	2.37	0.58
1:N:580:GLU:HG2	1:N:581:ASN:OD1	2.04	0.58
1:A:429:ASP:OD1	1:A:430:PRO:HD2	2.03	0.58
1:L:730:LEU:HB3	1:L:731:PRO:HD2	1.85	0.58
1:J:778:THR:HB	1:J:887:GLN:HB3	1.85	0.58
1:B:355:ASN:OD1	1:B:388:ARG:HD3	2.04	0.58
1:D:906:TYR:HB3	1:D:907:PRO:HD2	1.85	0.58
1:J:429:ASP:OD1	1:J:430:PRO:HD2	2.03	0.58
1:B:645:ARG:NH2	1:B:650:GLU:OE1	2.37	0.58
1:H:645:ARG:NH2	1:H:650:GLU:OE1	2.37	0.58
1:H:355:ASN:OD1	1:H:388:ARG:HD3	2.04	0.58
1:B:473:ARG:HD3	1:B:473:ARG:O	2.03	0.58
1:A:473:ARG:HD3	1:A:473:ARG:O	2.03	0.58
1:J:473:ARG:HD3	1:J:473:ARG:O	2.03	0.58
1:M:316:HIS:HD2	1:M:317:THR:O	1.87	0.57
1:O:7:LEU:HD13	1:O:74:LEU:CD1	2.32	0.57
1:N:166:ARG:HG3	1:N:392:TYR:CB	2.34	0.57
1:B:166:ARG:HG3	1:B:392:TYR:CB	2.34	0.57
1:G:372:MET:HE1	1:G:395:HIS:HB3	1.85	0.57
1:H:166:ARG:HG3	1:H:392:TYR:CB	2.34	0.57
1:E:30:HIS:ND1	1:E:31:PRO:O	2.27	0.57
1:B:429:ASP:OD1	1:B:430:PRO:HD2	2.03	0.57
1:N:355:ASN:OD1	1:N:388:ARG:HD3	2.04	0.57
1:P:429:ASP:OD1	1:P:430:PRO:HD2	2.03	0.57
1:P:153:TRP:CD1	1:P:158:TRP:HA	2.39	0.57
1:A:645:ARG:NH2	1:A:650:GLU:OE1	2.37	0.57
1:D:153:TRP:CD1	1:D:158:TRP:HA	2.39	0.57
1:E:778:THR:HB	1:E:887:GLN:HB3	1.85	0.57
1:L:153:TRP:CD1	1:L:158:TRP:HA	2.39	0.57
1:O:493:THR:HG23	5:O:2113:HOH:O	2.03	0.57
1:I:580:GLU:HG2	1:I:581:ASN:OD1	2.04	0.57
1:N:316:HIS:HD2	1:N:317:THR:O	1.87	0.57
1:H:316:HIS:HD2	1:H:317:THR:O	1.87	0.57
1:G:66:PRO:HB3	1:G:187:MET:HE1	1.86	0.57
1:O:166:ARG:HG3	1:O:392:TYR:CB	2.34	0.57
1:C:166:ARG:HG3	1:C:392:TYR:HB2	1.85	0.57
1:D:166:ARG:HG3	1:D:392:TYR:CB	2.34	0.57
1:G:166:ARG:HG3	1:G:392:TYR:CB	2.34	0.57
1:I:37:ARG:NH2	1:I:218:PRO:HD3	2.17	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:580:GLU:HG2	1:E:581:ASN:OD1	2.04	0.57
1:O:130:ASP:OD1	1:O:132:SER:N	2.30	0.57
1:A:272:ALA:HB1	1:A:273:PRO:HD2	1.85	0.57
1:G:645:ARG:NH2	1:G:650:GLU:OE1	2.37	0.57
1:B:906:TYR:HB3	1:B:907:PRO:HD2	1.85	0.57
1:F:778:THR:HB	1:F:887:GLN:HB3	1.85	0.57
1:M:355:ASN:OD1	1:M:388:ARG:HD3	2.04	0.57
1:B:730:LEU:HB3	1:B:731:PRO:HD2	1.85	0.57
1:J:849:LEU:N	1:J:849:LEU:HD23	2.17	0.57
1:G:130:ASP:OD1	1:G:132:SER:N	2.29	0.57
1:A:130:ASP:OD1	1:A:132:SER:N	2.29	0.57
1:J:355:ASN:OD1	1:J:388:ARG:HD3	2.04	0.57
1:C:493:THR:HG23	5:C:2113:HOH:O	2.03	0.57
1:M:668:VAL:CG1	1:M:669:PRO:HD2	2.31	0.57
1:D:316:HIS:HD2	1:D:317:THR:O	1.87	0.57
1:A:316:HIS:HD2	1:A:317:THR:O	1.87	0.57
1:K:360:HIS:HE1	1:K:362:LEU:HB2	1.61	0.57
1:G:668:VAL:CG1	1:G:669:PRO:HD2	2.31	0.57
1:P:7:LEU:HD13	1:P:74:LEU:CD1	2.32	0.57
1:L:255:ARG:NH1	1:L:255:ARG:HG2	2.14	0.57
1:J:166:ARG:HG3	1:J:392:TYR:CB	2.34	0.57
1:N:701:VAL:HG22	1:N:714:ILE:HD12	1.87	0.57
1:F:701:VAL:HG22	1:F:714:ILE:HD12	1.87	0.57
1:K:714:ILE:N	1:K:714:ILE:HD13	2.20	0.57
1:K:429:ASP:OD1	1:K:430:PRO:HD2	2.03	0.57
1:B:153:TRP:CD1	1:B:158:TRP:HA	2.39	0.57
1:N:429:ASP:OD1	1:N:430:PRO:HD2	2.03	0.57
1:M:906:TYR:HB3	1:M:907:PRO:HD2	1.85	0.57
1:O:429:ASP:OD1	1:O:430:PRO:HD2	2.03	0.57
1:C:355:ASN:OD1	1:C:388:ARG:HD3	2.04	0.57
1:G:84:VAL:HG12	1:G:85:VAL:N	2.20	0.57
1:D:291:LEU:HD12	1:D:291:LEU:N	2.18	0.57
1:C:645:ARG:NH2	1:C:650:GLU:OE1	2.37	0.57
1:E:153:TRP:CD1	1:E:158:TRP:HA	2.39	0.57
1:G:778:THR:HB	1:G:887:GLN:HB3	1.85	0.57
1:M:153:TRP:CD1	1:M:158:TRP:HA	2.39	0.57
1:O:316:HIS:CA	1:O:323:ILE:HD13	2.32	0.57
1:B:57:GLU:HG2	1:B:83:THR:HG23	1.85	0.57
1:J:7:LEU:HD13	1:J:74:LEU:CD1	2.32	0.57
1:H:822:LEU:CD1	1:H:824:GLN:H	2.16	0.57
1:K:166:ARG:HG3	1:K:392:TYR:CB	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:822:LEU:CD1	1:E:824:GLN:H	2.15	0.57
1:P:166:ARG:HG3	1:P:392:TYR:CB	2.34	0.57
1:C:30:HIS:ND1	1:C:31:PRO:O	2.26	0.57
1:A:3:ILE:HG23	1:A:4:THR:H	1.70	0.57
1:P:580:GLU:CD	1:P:580:GLU:H	2.07	0.57
1:J:580:GLU:HG2	1:J:581:ASN:OD1	2.04	0.57
1:P:272:ALA:HB1	1:P:273:PRO:HD2	1.85	0.57
1:L:355:ASN:OD1	1:L:388:ARG:HD3	2.04	0.57
1:B:178:ARG:NH1	1:B:181:GLU:O	2.33	0.57
1:L:580:GLU:HG2	1:L:581:ASN:OD1	2.04	0.57
1:J:153:TRP:CD1	1:J:158:TRP:HA	2.39	0.57
1:I:906:TYR:HB3	1:I:907:PRO:HD2	1.85	0.57
1:B:580:GLU:CD	1:B:580:GLU:H	2.07	0.57
1:G:153:TRP:CD1	1:G:158:TRP:HA	2.39	0.57
1:O:778:THR:HB	1:O:887:GLN:HB3	1.85	0.57
1:I:316:HIS:HD2	1:I:317:THR:O	1.87	0.57
1:E:57:GLU:HG2	1:E:83:THR:HG23	1.85	0.57
1:F:57:GLU:HG2	1:F:83:THR:HG23	1.85	0.57
1:J:316:HIS:HD2	1:J:317:THR:O	1.87	0.57
1:H:7:LEU:HD13	1:H:74:LEU:CD1	2.32	0.57
1:E:249:GLU:HG2	1:E:251:ARG:HH12	1.67	0.57
1:A:418:HIS:O	1:D:282:ARG:CD	2.53	0.57
1:O:763:GLY:HA3	1:O:822:LEU:CD2	2.33	0.57
1:A:822:LEU:CD1	1:A:824:GLN:H	2.16	0.57
1:J:166:ARG:HG3	1:J:392:TYR:HB2	1.85	0.57
1:P:372:MET:HE1	1:P:395:HIS:HB3	1.86	0.57
1:H:372:MET:HE1	1:H:395:HIS:HB3	1.86	0.57
1:P:166:ARG:HG3	1:P:392:TYR:HB2	1.85	0.57
1:L:701:VAL:HG22	1:L:714:ILE:HD12	1.87	0.57
1:L:714:ILE:N	1:L:714:ILE:HD13	2.20	0.57
1:G:3:ILE:HG23	1:G:4:THR:H	1.70	0.57
1:C:580:GLU:HG2	1:C:581:ASN:OD1	2.04	0.57
1:J:580:GLU:H	1:J:580:GLU:CD	2.07	0.57
1:L:580:GLU:CD	1:L:580:GLU:H	2.07	0.57
1:B:580:GLU:HG2	1:B:581:ASN:OD1	2.04	0.57
1:K:835:LEU:C	1:K:836:ILE:HD13	2.25	0.57
1:E:835:LEU:C	1:E:836:ILE:HD13	2.25	0.57
1:P:778:THR:HB	1:P:887:GLN:HB3	1.85	0.57
1:P:403:ASP:OD1	1:P:451:PRO:HD2	2.05	0.57
1:O:153:TRP:CD1	1:O:158:TRP:HA	2.39	0.57
1:I:425:ARG:NH2	1:L:287:ASP:OD2	2.36	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:403:ASP:OD1	1:M:451:PRO:HD2	2.05	0.57
1:G:945:ASN:OD1	1:G:950:GLN:NE2	2.30	0.57
1:A:580:GLU:HG2	1:A:581:ASN:OD1	2.04	0.57
1:F:772:ASP:N	1:F:772:ASP:OD1	2.30	0.57
1:L:429:ASP:OD1	1:L:430:PRO:HD2	2.03	0.57
1:J:730:LEU:HB3	1:J:731:PRO:HD2	1.85	0.57
1:H:403:ASP:OD1	1:H:451:PRO:HD2	2.05	0.57
1:E:740:LEU:CD1	1:E:741:THR:H	2.12	0.57
1:B:316:HIS:CA	1:B:323:ILE:HD13	2.32	0.57
1:H:781:ARG:NH1	1:H:781:ARG:HG3	2.17	0.57
1:L:166:ARG:HG3	1:L:392:TYR:CB	2.34	0.57
1:C:166:ARG:HG3	1:C:392:TYR:CB	2.34	0.57
1:K:372:MET:HE1	1:K:395:HIS:HB3	1.85	0.57
1:D:714:ILE:HD13	1:D:714:ILE:N	2.20	0.57
1:O:3:ILE:HG23	1:O:4:THR:H	1.69	0.57
1:F:580:GLU:HG2	1:F:581:ASN:OD1	2.04	0.57
1:D:84:VAL:HG12	1:D:85:VAL:N	2.20	0.57
1:J:403:ASP:OD1	1:J:451:PRO:HD2	2.05	0.57
1:A:355:ASN:OD1	1:A:388:ARG:HD3	2.04	0.57
1:B:835:LEU:C	1:B:836:ILE:HD13	2.25	0.57
1:C:835:LEU:C	1:C:836:ILE:HD13	2.25	0.57
1:K:403:ASP:OD1	1:K:451:PRO:HD2	2.05	0.57
1:L:316:HIS:CA	1:L:323:ILE:HD13	2.32	0.57
1:O:316:HIS:HD2	1:O:317:THR:O	1.87	0.57
1:F:316:HIS:CA	1:F:323:ILE:HD13	2.32	0.57
1:D:781:ARG:HG3	1:D:781:ARG:NH1	2.17	0.57
1:I:894:ARG:NH1	1:I:919:ASP:OD2	2.30	0.57
1:P:781:ARG:HG3	1:P:781:ARG:NH1	2.17	0.57
1:K:166:ARG:HG3	1:K:392:TYR:HB2	1.85	0.57
1:M:166:ARG:HG3	1:M:392:TYR:CB	2.34	0.57
1:N:153:TRP:CD1	1:N:158:TRP:HA	2.39	0.57
1:O:355:ASN:OD1	1:O:388:ARG:HD3	2.04	0.57
1:G:580:GLU:CD	1:G:580:GLU:H	2.07	0.57
1:G:493:THR:HG23	5:G:2113:HOH:O	2.03	0.57
1:H:580:GLU:H	1:H:580:GLU:CD	2.07	0.57
1:M:778:THR:HB	1:M:887:GLN:HB3	1.85	0.57
1:J:835:LEU:C	1:J:836:ILE:HD13	2.25	0.57
1:D:835:LEU:C	1:D:836:ILE:HD13	2.25	0.57
1:B:403:ASP:OD1	1:B:451:PRO:HD2	2.05	0.57
1:C:71:GLU:HB2	5:C:2262:HOH:O	2.05	0.57
1:L:1021:CME:CZ	1:L:1021:CME:HB3	2.21	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:66:PRO:HB3	1:C:187:MET:CE	2.35	0.57
1:M:763:GLY:HA3	1:M:822:LEU:CD2	2.33	0.57
1:A:166:ARG:HG3	1:A:392:TYR:CB	2.34	0.57
1:H:166:ARG:HG3	1:H:392:TYR:HB2	1.85	0.57
1:E:701:VAL:HG22	1:E:714:ILE:HD12	1.87	0.57
1:I:3:ILE:HG23	1:I:4:THR:H	1.70	0.57
1:D:580:GLU:HG2	1:D:581:ASN:OD1	2.04	0.57
1:I:580:GLU:CD	1:I:580:GLU:H	2.07	0.57
1:G:355:ASN:OD1	1:G:388:ARG:HD3	2.04	0.57
1:I:778:THR:HB	1:I:887:GLN:HB3	1.85	0.57
1:C:153:TRP:CD1	1:C:158:TRP:HA	2.39	0.57
1:O:906:TYR:HB3	1:O:907:PRO:HD2	1.85	0.57
1:G:767:GLN:HG3	1:G:768:MET:N	2.20	0.57
1:K:355:ASN:OD1	1:K:388:ARG:HD3	2.04	0.57
1:F:153:TRP:CD1	1:F:158:TRP:HA	2.39	0.57
1:E:355:ASN:OD1	1:E:388:ARG:HD3	2.04	0.57
1:O:580:GLU:H	1:O:580:GLU:CD	2.07	0.57
1:B:84:VAL:HG12	1:B:85:VAL:N	2.20	0.57
1:O:767:GLN:HG3	1:O:768:MET:N	2.20	0.57
1:P:316:HIS:HD2	1:P:317:THR:O	1.87	0.57
1:O:71:GLU:HB2	5:O:2261:HOH:O	2.05	0.57
1:C:316:HIS:HD2	1:C:317:THR:O	1.87	0.57
1:D:3:ILE:HG23	1:D:4:THR:H	1.70	0.57
1:K:781:ARG:HG3	1:K:781:ARG:NH1	2.17	0.57
1:L:249:GLU:HG2	1:L:251:ARG:HH12	1.67	0.57
1:E:66:PRO:HB3	1:E:187:MET:CE	2.35	0.57
1:P:66:PRO:HB3	1:P:187:MET:CE	2.35	0.57
1:J:66:PRO:HB3	1:J:187:MET:CE	2.35	0.57
1:C:701:VAL:HG22	1:C:714:ILE:HD12	1.87	0.57
1:B:701:VAL:HG22	1:B:714:ILE:HD12	1.87	0.57
1:J:3:ILE:HG23	1:J:4:THR:H	1.69	0.57
1:E:3:ILE:HG23	1:E:4:THR:H	1.70	0.57
1:M:3:ILE:HG23	1:M:4:THR:H	1.70	0.57
1:P:580:GLU:HG2	1:P:581:ASN:OD1	2.04	0.57
1:A:580:GLU:H	1:A:580:GLU:CD	2.07	0.57
1:G:580:GLU:HG2	1:G:581:ASN:OD1	2.04	0.57
1:O:403:ASP:OD1	1:O:451:PRO:HD2	2.05	0.57
1:G:906:TYR:HB3	1:G:907:PRO:HD2	1.85	0.57
1:H:272:ALA:HB1	1:H:273:PRO:HD2	1.85	0.57
1:I:835:LEU:C	1:I:836:ILE:HD13	2.25	0.57
1:L:130:ASP:OD1	1:L:132:SER:N	2.29	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:403:ASP:OD1	1:A:451:PRO:HD2	2.05	0.57
1:K:272:ALA:HB1	1:K:273:PRO:HD2	1.85	0.57
1:I:316:HIS:CA	1:I:323:ILE:HD13	2.32	0.57
1:N:316:HIS:CA	1:N:323:ILE:HD13	2.33	0.57
1:K:66:PRO:HB3	1:K:187:MET:CE	2.35	0.57
1:F:66:PRO:HB3	1:F:187:MET:CE	2.35	0.57
1:I:66:PRO:HB3	1:I:187:MET:CE	2.35	0.57
1:N:66:PRO:HB3	1:N:187:MET:CE	2.35	0.57
1:B:66:PRO:HB3	1:B:187:MET:CE	2.35	0.57
1:P:822:LEU:CD1	1:P:824:GLN:H	2.16	0.57
1:F:654:TRP:CE3	1:F:655:MET:HA	2.40	0.57
1:G:701:VAL:HG22	1:G:714:ILE:HD12	1.87	0.57
1:M:701:VAL:HG22	1:M:714:ILE:HD12	1.87	0.57
1:F:30:HIS:ND1	1:F:31:PRO:O	2.26	0.57
1:N:287:ASP:N	1:N:287:ASP:OD1	2.29	0.57
1:O:580:GLU:HG2	1:O:581:ASN:OD1	2.04	0.57
1:D:403:ASP:OD1	1:D:451:PRO:HD2	2.05	0.57
1:M:84:VAL:HG12	1:M:85:VAL:N	2.20	0.57
1:E:668:VAL:CG1	1:E:669:PRO:HD2	2.31	0.56
1:G:71:GLU:HB2	5:G:2262:HOH:O	2.05	0.56
1:O:66:PRO:HB3	1:O:187:MET:CE	2.35	0.56
1:H:66:PRO:HB3	1:H:187:MET:CE	2.35	0.56
1:A:654:TRP:CE3	1:A:655:MET:HA	2.40	0.56
1:B:654:TRP:CE3	1:B:655:MET:HA	2.40	0.56
1:L:654:TRP:CE3	1:L:655:MET:HA	2.40	0.56
1:C:654:TRP:CE3	1:C:655:MET:HA	2.40	0.56
1:C:714:ILE:HD13	1:C:714:ILE:N	2.20	0.56
1:O:701:VAL:HG22	1:O:714:ILE:HD12	1.87	0.56
1:F:714:ILE:HD13	1:F:714:ILE:N	2.20	0.56
1:K:3:ILE:HG23	1:K:4:THR:H	1.70	0.56
1:J:30:HIS:ND1	1:J:31:PRO:O	2.26	0.56
1:C:3:ILE:HG23	1:C:4:THR:H	1.70	0.56
1:C:84:VAL:HG12	1:C:85:VAL:N	2.20	0.56
1:J:767:GLN:HG3	1:J:768:MET:N	2.20	0.56
1:D:767:GLN:HG3	1:D:768:MET:N	2.20	0.56
1:K:84:VAL:HG12	1:K:85:VAL:N	2.20	0.56
1:F:84:VAL:HG12	1:F:85:VAL:N	2.20	0.56
1:F:403:ASP:OD1	1:F:451:PRO:HD2	2.05	0.56
1:G:403:ASP:OD1	1:G:451:PRO:HD2	2.05	0.56
1:P:355:ASN:OD1	1:P:388:ARG:HD3	2.04	0.56
1:B:71:GLU:HB2	5:B:2261:HOH:O	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:71:GLU:HB2	5:A:2260:HOH:O	2.05	0.56
1:G:66:PRO:HB3	1:G:187:MET:CE	2.35	0.56
1:K:822:LEU:CD1	1:K:824:GLN:H	2.15	0.56
1:N:654:TRP:CE3	1:N:655:MET:HA	2.40	0.56
1:C:372:MET:HE1	1:C:395:HIS:HB3	1.86	0.56
1:P:714:ILE:N	1:P:714:ILE:HD13	2.20	0.56
1:E:78:LEU:HD23	1:E:78:LEU:N	2.21	0.56
1:F:78:LEU:N	1:F:78:LEU:HD23	2.21	0.56
1:L:3:ILE:HG23	1:L:4:THR:H	1.69	0.56
1:H:580:GLU:HG2	1:H:581:ASN:OD1	2.04	0.56
1:J:84:VAL:HG12	1:J:85:VAL:N	2.20	0.56
1:I:355:ASN:OD1	1:I:388:ARG:HD3	2.04	0.56
1:I:730:LEU:HB3	1:I:731:PRO:HD2	1.85	0.56
1:K:740:LEU:CD1	1:K:741:THR:H	2.12	0.56
1:F:668:VAL:CG1	1:F:669:PRO:HD2	2.31	0.56
1:F:71:GLU:HB2	5:F:2262:HOH:O	2.05	0.56
1:M:249:GLU:HG2	1:M:251:ARG:HH12	1.67	0.56
1:P:894:ARG:HH22	1:P:921:PRO:HD3	1.71	0.56
1:F:894:ARG:HH22	1:F:921:PRO:HD3	1.71	0.56
1:N:255:ARG:HG2	1:N:255:ARG:NH1	2.14	0.56
1:E:166:ARG:HG3	1:E:392:TYR:CB	2.34	0.56
1:H:654:TRP:CE3	1:H:655:MET:HA	2.40	0.56
1:J:654:TRP:CE3	1:J:655:MET:HA	2.40	0.56
1:F:372:MET:HE1	1:F:395:HIS:HB3	1.87	0.56
1:D:372:MET:HE1	1:D:395:HIS:HB3	1.87	0.56
1:H:714:ILE:N	1:H:714:ILE:HD13	2.20	0.56
1:B:800:ARG:HB3	1:B:800:ARG:CZ	2.36	0.56
1:G:800:ARG:CZ	1:G:800:ARG:HB3	2.36	0.56
1:O:800:ARG:CZ	1:O:800:ARG:HB3	2.36	0.56
1:H:3:ILE:HG23	1:H:4:THR:H	1.69	0.56
1:O:767:GLN:HA	1:O:776:LEU:HD12	1.88	0.56
1:G:767:GLN:HA	1:G:776:LEU:HD12	1.88	0.56
1:F:140:ARG:HB2	1:F:171:PHE:O	2.06	0.56
1:N:140:ARG:HB2	1:N:171:PHE:O	2.06	0.56
1:L:84:VAL:HG12	1:L:85:VAL:N	2.20	0.56
1:A:767:GLN:HG3	1:A:768:MET:N	2.20	0.56
1:O:287:ASP:N	1:O:287:ASP:OD1	2.29	0.56
1:B:778:THR:HB	1:B:887:GLN:HB3	1.85	0.56
1:A:140:ARG:HB2	1:A:171:PHE:O	2.06	0.56
1:F:355:ASN:OD1	1:F:388:ARG:HD3	2.04	0.56
1:I:140:ARG:HB2	1:I:171:PHE:O	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:835:LEU:C	1:O:836:ILE:HD13	2.25	0.56
1:E:767:GLN:HA	1:E:776:LEU:HD12	1.88	0.56
1:H:140:ARG:HB2	1:H:171:PHE:O	2.06	0.56
1:L:767:GLN:HG3	1:L:768:MET:N	2.20	0.56
1:H:835:LEU:C	1:H:836:ILE:HD13	2.25	0.56
1:M:767:GLN:HA	1:M:776:LEU:HD12	1.88	0.56
1:P:140:ARG:HB2	1:P:171:PHE:O	2.06	0.56
1:B:767:GLN:HG3	1:B:768:MET:N	2.20	0.56
1:I:767:GLN:HG3	1:I:768:MET:N	2.20	0.56
1:D:355:ASN:OD1	1:D:388:ARG:HD3	2.04	0.56
1:L:906:TYR:HB3	1:L:907:PRO:HD2	1.85	0.56
1:P:668:VAL:CG1	1:P:669:PRO:HD2	2.31	0.56
1:N:71:GLU:HB2	5:N:2261:HOH:O	2.05	0.56
1:E:71:GLU:HB2	5:E:2262:HOH:O	2.05	0.56
1:H:894:ARG:HH22	1:H:921:PRO:HD3	1.71	0.56
1:G:894:ARG:HH22	1:G:921:PRO:HD3	1.71	0.56
1:I:654:TRP:CE3	1:I:655:MET:HA	2.40	0.56
1:D:701:VAL:HG22	1:D:714:ILE:HD12	1.87	0.56
1:J:714:ILE:N	1:J:714:ILE:HD13	2.20	0.56
1:H:701:VAL:HG22	1:H:714:ILE:HD12	1.87	0.56
1:J:800:ARG:CZ	1:J:800:ARG:HB3	2.36	0.56
1:D:800:ARG:CZ	1:D:800:ARG:HB3	2.36	0.56
1:B:3:ILE:HG23	1:B:4:THR:H	1.70	0.56
1:O:724:GLU:O	1:P:847:LYS:NZ	2.27	0.56
1:F:786:ARG:HH11	1:F:990:HIS:HE1	1.54	0.56
1:N:786:ARG:HH11	1:N:990:HIS:HE1	1.54	0.56
1:C:403:ASP:OD1	1:C:451:PRO:HD2	2.05	0.56
1:G:835:LEU:C	1:G:836:ILE:HD13	2.25	0.56
1:D:178:ARG:NH1	1:D:181:GLU:O	2.33	0.56
1:D:140:ARG:HB2	1:D:171:PHE:O	2.06	0.56
1:P:835:LEU:C	1:P:836:ILE:HD13	2.25	0.56
1:M:740:LEU:CD1	1:M:741:THR:H	2.12	0.56
1:M:71:GLU:HB2	5:M:2261:HOH:O	2.05	0.56
1:M:894:ARG:HH22	1:M:921:PRO:HD3	1.71	0.56
1:O:894:ARG:HH22	1:O:921:PRO:HD3	1.71	0.56
1:M:66:PRO:HB3	1:M:187:MET:CE	2.35	0.56
1:O:654:TRP:CE3	1:O:655:MET:HA	2.40	0.56
1:K:654:TRP:CE3	1:K:655:MET:HA	2.40	0.56
1:G:654:TRP:CE3	1:G:655:MET:HA	2.40	0.56
1:I:372:MET:HE1	1:I:395:HIS:HB3	1.87	0.56
1:P:701:VAL:HG22	1:P:714:ILE:HD12	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:714:ILE:HD13	1:B:714:ILE:N	2.20	0.56
1:A:334:GLU:OE1	1:A:336:ARG:NH1	2.39	0.56
1:F:334:GLU:OE1	1:F:336:ARG:NH1	2.39	0.56
1:I:800:ARG:CZ	1:I:800:ARG:HB3	2.36	0.56
1:N:3:ILE:HG23	1:N:4:THR:H	1.69	0.56
1:O:786:ARG:HH11	1:O:990:HIS:HE1	1.54	0.56
1:C:786:ARG:HH11	1:C:990:HIS:HE1	1.54	0.56
1:B:130:ASP:OD1	1:B:132:SER:N	2.29	0.56
1:H:130:ASP:OD1	1:H:132:SER:N	2.29	0.56
1:O:84:VAL:HG12	1:O:85:VAL:N	2.20	0.56
1:K:71:GLU:HB2	5:K:2262:HOH:O	2.05	0.56
1:D:7:LEU:HD13	1:D:74:LEU:CD1	2.32	0.56
1:K:894:ARG:HH22	1:K:921:PRO:HD3	1.71	0.56
1:A:66:PRO:HB3	1:A:187:MET:CE	2.35	0.56
1:P:654:TRP:CE3	1:P:655:MET:HA	2.40	0.56
1:N:822:LEU:CD1	1:N:824:GLN:H	2.16	0.56
1:M:166:ARG:HG2	1:M:414:ASN:ND2	2.21	0.56
1:I:334:GLU:OE1	1:I:336:ARG:NH1	2.39	0.56
1:A:701:VAL:HG22	1:A:714:ILE:HD12	1.87	0.56
1:E:334:GLU:OE1	1:E:336:ARG:NH1	2.39	0.56
1:J:334:GLU:OE1	1:J:336:ARG:NH1	2.39	0.56
1:B:334:GLU:OE1	1:B:336:ARG:NH1	2.39	0.56
1:M:714:ILE:N	1:M:714:ILE:HD13	2.20	0.56
1:D:78:LEU:N	1:D:78:LEU:HD23	2.21	0.56
1:G:786:ARG:HH11	1:G:990:HIS:HE1	1.54	0.56
1:E:84:VAL:HG12	1:E:85:VAL:N	2.20	0.56
1:N:403:ASP:OD1	1:N:451:PRO:HD2	2.05	0.56
1:P:427:THR:HA	1:P:436:MET:HE2	1.87	0.56
1:L:316:HIS:HD2	1:L:317:THR:O	1.87	0.56
1:K:316:HIS:HD2	1:K:317:THR:O	1.87	0.56
1:I:71:GLU:HB2	5:I:2262:HOH:O	2.05	0.56
1:H:71:GLU:HB2	5:H:2262:HOH:O	2.05	0.56
1:C:66:PRO:HB3	1:C:187:MET:HE1	1.88	0.56
1:D:66:PRO:HB3	1:D:187:MET:CE	2.35	0.56
1:K:166:ARG:HG2	1:K:414:ASN:ND2	2.21	0.56
1:M:654:TRP:CE3	1:M:655:MET:HA	2.40	0.56
1:L:372:MET:HE1	1:L:395:HIS:HB3	1.88	0.56
1:M:334:GLU:OE1	1:M:336:ARG:NH1	2.39	0.56
1:D:334:GLU:OE1	1:D:336:ARG:NH1	2.39	0.56
1:I:701:VAL:HG22	1:I:714:ILE:HD12	1.87	0.56
1:P:3:ILE:HG23	1:P:4:THR:H	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:786:ARG:HH11	1:I:990:HIS:HE1	1.54	0.56
1:J:767:GLN:HA	1:J:776:LEU:HD12	1.88	0.56
1:B:767:GLN:HA	1:B:776:LEU:HD12	1.88	0.56
1:B:140:ARG:HB2	1:B:171:PHE:O	2.06	0.56
1:C:975:LEU:HD23	1:C:975:LEU:N	2.21	0.56
1:F:835:LEU:C	1:F:836:ILE:HD13	2.25	0.56
1:F:767:GLN:HA	1:F:776:LEU:HD12	1.88	0.56
1:N:767:GLN:HA	1:N:776:LEU:HD12	1.88	0.56
1:A:975:LEU:N	1:A:975:LEU:HD23	2.21	0.56
1:F:316:HIS:HD2	1:F:317:THR:O	1.87	0.56
1:J:781:ARG:NH1	1:J:781:ARG:HG3	2.17	0.56
1:B:372:MET:HE1	1:B:395:HIS:HB3	1.86	0.56
1:J:166:ARG:HG2	1:J:414:ASN:ND2	2.21	0.56
1:B:166:ARG:HG2	1:B:414:ASN:ND2	2.21	0.56
1:I:166:ARG:HG2	1:I:414:ASN:ND2	2.21	0.56
1:I:714:ILE:N	1:I:714:ILE:HD13	2.20	0.56
1:A:800:ARG:HB3	1:A:800:ARG:CZ	2.36	0.56
1:I:767:GLN:HA	1:I:776:LEU:HD12	1.88	0.56
1:P:84:VAL:HG12	1:P:85:VAL:N	2.20	0.56
1:A:835:LEU:C	1:A:836:ILE:HD13	2.25	0.56
1:K:140:ARG:HB2	1:K:171:PHE:O	2.06	0.56
1:M:869:ASP:OD2	1:M:1015:HIS:ND1	2.33	0.56
1:D:740:LEU:CD1	1:D:741:THR:H	2.12	0.56
1:D:57:GLU:HG2	1:D:83:THR:HG23	1.85	0.56
1:P:71:GLU:HB2	5:P:2263:HOH:O	2.05	0.56
1:A:419:GLY:CA	1:D:282:ARG:NH1	2.65	0.56
1:C:166:ARG:HG2	1:C:414:ASN:ND2	2.21	0.56
1:E:714:ILE:HD13	1:E:714:ILE:N	2.20	0.56
1:H:334:GLU:OE1	1:H:336:ARG:NH1	2.39	0.56
1:K:334:GLU:OE1	1:K:336:ARG:NH1	2.39	0.56
1:N:800:ARG:CZ	1:N:800:ARG:HB3	2.36	0.56
1:L:800:ARG:CZ	1:L:800:ARG:HB3	2.36	0.56
1:N:287:ASP:CG	1:O:425:ARG:HH22	2.09	0.56
1:E:767:GLN:HG3	1:E:768:MET:N	2.20	0.56
1:L:767:GLN:HA	1:L:776:LEU:HD12	1.88	0.56
1:I:403:ASP:OD1	1:I:451:PRO:HD2	2.05	0.56
1:J:975:LEU:HD23	1:J:975:LEU:N	2.21	0.56
1:M:835:LEU:C	1:M:836:ILE:HD13	2.25	0.56
1:E:403:ASP:OD1	1:E:451:PRO:HD2	2.05	0.56
1:C:767:GLN:HG3	1:C:768:MET:N	2.20	0.56
1:F:92:MET:HE3	1:F:362:LEU:O	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:894:ARG:HH22	1:L:921:PRO:HD3	1.71	0.56
1:D:822:LEU:CD1	1:D:824:GLN:H	2.16	0.56
1:E:654:TRP:CE3	1:E:655:MET:HA	2.40	0.56
1:J:701:VAL:HG22	1:J:714:ILE:HD12	1.87	0.56
1:O:334:GLU:OE1	1:O:336:ARG:NH1	2.39	0.56
1:F:800:ARG:CZ	1:F:800:ARG:HB3	2.36	0.56
1:M:786:ARG:HH11	1:M:990:HIS:HE1	1.54	0.56
1:M:767:GLN:HG3	1:M:768:MET:N	2.20	0.56
1:G:140:ARG:HB2	1:G:171:PHE:O	2.06	0.56
1:J:869:ASP:OD2	1:J:1015:HIS:ND1	2.33	0.56
1:K:767:GLN:HA	1:K:776:LEU:HD12	1.88	0.56
1:K:767:GLN:HG3	1:K:768:MET:N	2.20	0.56
1:M:140:ARG:HB2	1:M:171:PHE:O	2.06	0.56
1:L:140:ARG:HB2	1:L:171:PHE:O	2.06	0.56
1:E:166:ARG:HG2	1:E:414:ASN:ND2	2.21	0.55
1:L:166:ARG:HG2	1:L:414:ASN:ND2	2.21	0.55
1:F:166:ARG:HG2	1:F:414:ASN:ND2	2.21	0.55
1:D:166:ARG:HG2	1:D:414:ASN:ND2	2.21	0.55
1:L:334:GLU:OE1	1:L:336:ARG:NH1	2.39	0.55
1:M:800:ARG:CZ	1:M:800:ARG:HB3	2.36	0.55
1:K:800:ARG:CZ	1:K:800:ARG:HB3	2.36	0.55
1:E:786:ARG:HH11	1:E:990:HIS:HE1	1.54	0.55
1:N:989:PHE:CE1	1:N:1014:TYR:HB3	2.42	0.55
1:D:767:GLN:HA	1:D:776:LEU:HD12	1.88	0.55
1:I:84:VAL:HG12	1:I:85:VAL:N	2.20	0.55
1:P:767:GLN:HA	1:P:776:LEU:HD12	1.88	0.55
1:E:140:ARG:HB2	1:E:171:PHE:O	2.06	0.55
1:H:767:GLN:HA	1:H:776:LEU:HD12	1.88	0.55
1:A:84:VAL:HG12	1:A:85:VAL:N	2.20	0.55
1:N:84:VAL:HG12	1:N:85:VAL:N	2.20	0.55
1:P:316:HIS:CA	1:P:323:ILE:HD13	2.32	0.55
1:O:166:ARG:HG2	1:O:414:ASN:ND2	2.21	0.55
1:G:166:ARG:HG2	1:G:414:ASN:ND2	2.21	0.55
1:A:714:ILE:HD13	1:A:714:ILE:N	2.20	0.55
1:N:714:ILE:HD13	1:N:714:ILE:N	2.20	0.55
1:C:334:GLU:OE1	1:C:336:ARG:NH1	2.39	0.55
1:D:989:PHE:CE1	1:D:1014:TYR:HB3	2.42	0.55
1:L:403:ASP:OD1	1:L:451:PRO:HD2	2.05	0.55
1:H:84:VAL:HG12	1:H:85:VAL:N	2.20	0.55
1:J:71:GLU:HB2	5:J:2262:HOH:O	2.05	0.55
1:K:249:GLU:HG2	1:K:251:ARG:HH12	1.67	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:372:MET:HE1	1:M:395:HIS:HB3	1.87	0.55
1:N:334:GLU:OE1	1:N:336:ARG:NH1	2.39	0.55
1:O:714:ILE:HD13	1:O:714:ILE:N	2.20	0.55
1:K:701:VAL:HG22	1:K:714:ILE:HD12	1.87	0.55
1:M:78:LEU:HD23	1:M:78:LEU:N	2.21	0.55
1:G:30:HIS:ND1	1:G:31:PRO:O	2.26	0.55
1:P:786:ARG:HH11	1:P:990:HIS:HE1	1.54	0.55
1:H:786:ARG:HH11	1:H:990:HIS:HE1	1.54	0.55
1:K:989:PHE:CE1	1:K:1014:TYR:HB3	2.42	0.55
1:P:767:GLN:HG3	1:P:768:MET:N	2.20	0.55
1:H:767:GLN:HG3	1:H:768:MET:N	2.20	0.55
1:I:975:LEU:N	1:I:975:LEU:HD23	2.21	0.55
1:F:975:LEU:HD23	1:F:975:LEU:N	2.21	0.55
1:F:50:GLN:O	1:F:215:LEU:HA	2.07	0.55
1:E:5:ASP:OD2	1:E:157:ARG:HA	2.07	0.55
1:P:772:ASP:N	1:P:772:ASP:OD1	2.30	0.55
1:H:975:LEU:HD23	1:H:975:LEU:N	2.21	0.55
1:A:668:VAL:CG1	1:A:669:PRO:HD2	2.31	0.55
1:D:71:GLU:HB2	5:D:2263:HOH:O	2.05	0.55
1:L:71:GLU:HB2	5:L:2262:HOH:O	2.05	0.55
1:E:781:ARG:HG3	1:E:781:ARG:NH1	2.17	0.55
1:E:7:LEU:HD13	1:E:74:LEU:CD1	2.32	0.55
1:M:781:ARG:HG3	1:M:781:ARG:NH1	2.17	0.55
1:C:894:ARG:HH22	1:C:921:PRO:HD3	1.71	0.55
1:L:66:PRO:HB3	1:L:187:MET:CE	2.35	0.55
1:N:166:ARG:HG2	1:N:414:ASN:ND2	2.21	0.55
1:A:372:MET:HE1	1:A:395:HIS:HB3	1.88	0.55
1:O:372:MET:HE1	1:O:395:HIS:HB3	1.87	0.55
1:G:334:GLU:OE1	1:G:336:ARG:NH1	2.39	0.55
1:B:78:LEU:N	1:B:78:LEU:HD23	2.21	0.55
1:F:3:ILE:HG23	1:F:4:THR:H	1.70	0.55
1:N:767:GLN:HG3	1:N:768:MET:N	2.20	0.55
1:O:975:LEU:HD23	1:O:975:LEU:N	2.21	0.55
1:L:835:LEU:C	1:L:836:ILE:HD13	2.25	0.55
1:M:282:ARG:HB2	1:P:422:PRO:HA	1.87	0.55
1:N:78:LEU:N	1:N:78:LEU:HD23	2.21	0.55
1:P:800:ARG:CZ	1:P:800:ARG:HB3	2.36	0.55
1:B:786:ARG:HH11	1:B:990:HIS:HE1	1.54	0.55
1:E:989:PHE:CE1	1:E:1014:TYR:HB3	2.42	0.55
1:D:50:GLN:O	1:D:215:LEU:HA	2.07	0.55
1:P:258:VAL:HA	1:P:312:VAL:O	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:140:ARG:HB2	1:J:171:PHE:O	2.06	0.55
1:H:50:GLN:O	1:H:215:LEU:HA	2.07	0.55
1:K:975:LEU:HD23	1:K:975:LEU:N	2.21	0.55
1:N:835:LEU:C	1:N:836:ILE:HD13	2.25	0.55
1:O:5:ASP:OD2	1:O:157:ARG:HA	2.07	0.55
1:L:668:VAL:CG1	1:L:669:PRO:HD2	2.31	0.55
1:I:57:GLU:HG2	1:I:83:THR:HG23	1.84	0.55
1:G:316:HIS:CA	1:G:323:ILE:HD13	2.32	0.55
1:H:316:HIS:CA	1:H:323:ILE:HD13	2.32	0.55
1:H:668:VAL:CG1	1:H:669:PRO:HD2	2.31	0.55
1:M:7:LEU:HD13	1:M:74:LEU:CD1	2.32	0.55
1:A:166:ARG:HG2	1:A:414:ASN:ND2	2.21	0.55
1:G:714:ILE:N	1:G:714:ILE:HD13	2.20	0.55
1:P:334:GLU:OE1	1:P:336:ARG:NH1	2.39	0.55
1:I:282:ARG:HD3	1:L:418:HIS:O	2.06	0.55
1:O:30:HIS:ND1	1:O:31:PRO:O	2.26	0.55
1:H:800:ARG:HB3	1:H:800:ARG:CZ	2.36	0.55
1:C:800:ARG:HB3	1:C:800:ARG:CZ	2.36	0.55
1:K:786:ARG:HH11	1:K:990:HIS:HE1	1.54	0.55
1:D:786:ARG:HH11	1:D:990:HIS:HE1	1.54	0.55
1:O:140:ARG:HB2	1:O:171:PHE:O	2.06	0.55
1:C:258:VAL:HA	1:C:312:VAL:O	2.07	0.55
1:G:5:ASP:OD2	1:G:157:ARG:HA	2.07	0.55
1:F:258:VAL:HA	1:F:312:VAL:O	2.07	0.55
1:H:258:VAL:HA	1:H:312:VAL:O	2.07	0.55
1:D:5:ASP:OD2	1:D:157:ARG:HA	2.07	0.55
1:O:50:GLN:O	1:O:215:LEU:HA	2.07	0.55
1:G:246:MET:HE3	1:G:247:CYS:C	2.27	0.55
1:E:800:ARG:CZ	1:E:800:ARG:HB3	2.36	0.55
1:A:786:ARG:HH11	1:A:990:HIS:HE1	1.54	0.55
1:M:989:PHE:CE1	1:M:1014:TYR:HB3	2.42	0.55
1:I:989:PHE:CE1	1:I:1014:TYR:HB3	2.42	0.55
1:G:989:PHE:CE1	1:G:1014:TYR:HB3	2.42	0.55
1:B:975:LEU:HD23	1:B:975:LEU:N	2.21	0.55
1:A:258:VAL:HA	1:A:312:VAL:O	2.07	0.55
1:A:50:GLN:O	1:A:215:LEU:HA	2.07	0.55
1:N:258:VAL:HA	1:N:312:VAL:O	2.07	0.55
1:O:258:VAL:HA	1:O:312:VAL:O	2.07	0.55
1:G:50:GLN:O	1:G:215:LEU:HA	2.07	0.55
1:J:5:ASP:OD2	1:J:157:ARG:HA	2.07	0.55
1:C:140:ARG:HB2	1:C:171:PHE:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:50:GLN:O	1:P:215:LEU:HA	2.07	0.55
1:M:5:ASP:OD2	1:M:157:ARG:HA	2.07	0.55
1:N:436:MET:HE1	1:N:467:ASN:HD22	1.69	0.55
1:A:7:LEU:HD13	1:A:74:LEU:CD1	2.32	0.55
1:I:37:ARG:CG	1:I:37:ARG:HH11	2.20	0.55
1:M:37:ARG:CG	1:M:37:ARG:HH11	2.20	0.55
1:E:37:ARG:CG	1:E:37:ARG:HH11	2.20	0.55
1:C:78:LEU:HD23	1:C:78:LEU:N	2.21	0.55
1:M:246:MET:HE3	1:M:247:CYS:C	2.27	0.55
1:A:127:PHE:CE2	1:A:184:LEU:HG	2.42	0.55
1:J:989:PHE:CE1	1:J:1014:TYR:HB3	2.42	0.55
1:A:989:PHE:CE1	1:A:1014:TYR:HB3	2.42	0.55
1:O:989:PHE:CE1	1:O:1014:TYR:HB3	2.42	0.55
1:C:767:GLN:HA	1:C:776:LEU:HD12	1.88	0.55
1:J:50:GLN:O	1:J:215:LEU:HA	2.07	0.55
1:D:975:LEU:HD23	1:D:975:LEU:N	2.21	0.55
1:G:258:VAL:HA	1:G:312:VAL:O	2.07	0.55
1:M:975:LEU:HD23	1:M:975:LEU:N	2.21	0.55
1:G:37:ARG:HH11	1:G:37:ARG:CG	2.20	0.55
1:P:595:THR:HG23	1:P:596:PRO:CA	2.37	0.55
1:D:437:SER:HB2	5:D:2103:HOH:O	2.07	0.55
1:F:989:PHE:CE1	1:F:1014:TYR:HB3	2.42	0.55
1:L:989:PHE:CE1	1:L:1014:TYR:HB3	2.42	0.55
1:A:767:GLN:HA	1:A:776:LEU:HD12	1.88	0.55
1:F:767:GLN:HG3	1:F:768:MET:N	2.20	0.55
1:L:50:GLN:O	1:L:215:LEU:HA	2.07	0.55
1:F:39:SER:OG	1:F:40:GLU:N	2.40	0.55
1:K:130:ASP:OD1	1:K:132:SER:N	2.30	0.55
1:E:975:LEU:N	1:E:975:LEU:HD23	2.21	0.55
1:J:178:ARG:NH1	1:J:181:GLU:O	2.33	0.55
1:E:258:VAL:HA	1:E:312:VAL:O	2.07	0.55
1:F:5:ASP:OD2	1:F:157:ARG:HA	2.07	0.55
1:O:740:LEU:CD1	1:O:741:THR:H	2.12	0.55
1:M:92:MET:HE3	1:M:362:LEU:O	2.07	0.55
1:B:634:GLN:O	1:B:682:LEU:HB2	2.07	0.55
1:P:166:ARG:HG2	1:P:414:ASN:ND2	2.21	0.55
1:L:37:ARG:HH11	1:L:37:ARG:CG	2.20	0.55
1:H:595:THR:HG23	1:H:596:PRO:CA	2.37	0.55
1:B:127:PHE:CE2	1:B:184:LEU:HG	2.42	0.55
1:H:989:PHE:CE1	1:H:1014:TYR:HB3	2.42	0.55
1:N:403:ASP:OD2	1:N:450:HIS:ND1	2.34	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:258:VAL:HA	1:D:312:VAL:O	2.07	0.55
1:P:975:LEU:N	1:P:975:LEU:HD23	2.21	0.55
1:I:258:VAL:HA	1:I:312:VAL:O	2.07	0.55
1:P:5:ASP:OD2	1:P:157:ARG:HA	2.07	0.55
1:N:39:SER:OG	1:N:40:GLU:N	2.40	0.55
1:J:258:VAL:HA	1:J:312:VAL:O	2.07	0.55
1:E:425:ARG:NH2	1:H:287:ASP:OD2	2.40	0.55
1:M:258:VAL:HA	1:M:312:VAL:O	2.07	0.55
1:C:668:VAL:CG1	1:C:669:PRO:HD2	2.31	0.54
1:G:634:GLN:O	1:G:682:LEU:HB2	2.07	0.54
1:E:634:GLN:O	1:E:682:LEU:HB2	2.07	0.54
1:O:37:ARG:HH11	1:O:37:ARG:CG	2.20	0.54
1:J:37:ARG:CG	1:J:37:ARG:HH11	2.20	0.54
1:P:78:LEU:HD23	1:P:78:LEU:N	2.21	0.54
1:G:127:PHE:CE2	1:G:184:LEU:HG	2.42	0.54
1:L:287:ASP:N	1:L:287:ASP:OD1	2.29	0.54
1:N:5:ASP:OD2	1:N:157:ARG:HA	2.07	0.54
1:M:50:GLN:O	1:M:215:LEU:HA	2.07	0.54
1:P:39:SER:OG	1:P:40:GLU:N	2.40	0.54
1:I:50:GLN:O	1:I:215:LEU:HA	2.07	0.54
1:C:50:GLN:O	1:C:215:LEU:HA	2.07	0.54
1:L:975:LEU:HD23	1:L:975:LEU:N	2.21	0.54
1:B:742:THR:HG22	1:B:743:SER:H	1.73	0.54
1:D:634:GLN:O	1:D:682:LEU:HB2	2.07	0.54
1:P:37:ARG:CG	1:P:37:ARG:HH11	2.20	0.54
1:B:37:ARG:CG	1:B:37:ARG:HH11	2.20	0.54
1:G:78:LEU:HD23	1:G:78:LEU:N	2.21	0.54
1:L:78:LEU:N	1:L:78:LEU:HD23	2.21	0.54
1:O:78:LEU:N	1:O:78:LEU:HD23	2.21	0.54
1:O:246:MET:HE3	1:O:247:CYS:C	2.27	0.54
1:M:282:ARG:HG3	1:P:423:MET:HB2	1.88	0.54
1:K:5:ASP:OD2	1:K:157:ARG:HA	2.07	0.54
1:H:39:SER:OG	1:H:40:GLU:N	2.40	0.54
1:F:130:ASP:OD1	1:F:132:SER:N	2.29	0.54
1:D:39:SER:OG	1:D:40:GLU:N	2.40	0.54
1:B:50:GLN:O	1:B:215:LEU:HA	2.07	0.54
1:P:952:ARG:O	1:P:1018:LEU:HD23	2.08	0.54
1:F:742:THR:HG22	1:F:743:SER:H	1.73	0.54
1:N:742:THR:HG22	1:N:743:SER:H	1.73	0.54
1:G:742:THR:HG22	1:G:743:SER:H	1.73	0.54
1:A:92:MET:HE3	1:A:362:LEU:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:668:VAL:CG1	1:O:669:PRO:HD2	2.32	0.54
1:M:66:PRO:HB3	1:M:187:MET:HE1	1.90	0.54
1:J:66:PRO:HB3	1:J:187:MET:HE1	1.90	0.54
1:D:654:TRP:CE3	1:D:655:MET:HA	2.40	0.54
1:H:166:ARG:HG2	1:H:414:ASN:ND2	2.21	0.54
1:B:595:THR:HG23	1:B:596:PRO:CA	2.38	0.54
1:H:78:LEU:HD23	1:H:78:LEU:N	2.21	0.54
1:A:78:LEU:N	1:A:78:LEU:HD23	2.21	0.54
1:H:127:PHE:CE2	1:H:184:LEU:HG	2.42	0.54
1:B:989:PHE:CE1	1:B:1014:TYR:HB3	2.42	0.54
1:C:5:ASP:OD2	1:C:157:ARG:HA	2.07	0.54
1:K:50:GLN:O	1:K:215:LEU:HA	2.07	0.54
1:N:130:ASP:OD1	1:N:132:SER:N	2.29	0.54
1:I:869:ASP:OD2	1:I:1015:HIS:ND1	2.33	0.54
1:L:745:MET:HE2	1:L:745:MET:HA	1.89	0.54
1:A:745:MET:HE2	1:A:745:MET:HA	1.89	0.54
1:C:742:THR:HG22	1:C:743:SER:H	1.73	0.54
1:J:668:VAL:CG1	1:J:669:PRO:HD2	2.31	0.54
1:I:66:PRO:HB3	1:I:187:MET:HE1	1.89	0.54
1:K:634:GLN:O	1:K:682:LEU:HB2	2.07	0.54
1:I:822:LEU:CD1	1:I:824:GLN:H	2.16	0.54
1:I:127:PHE:CE2	1:I:184:LEU:HG	2.42	0.54
1:P:989:PHE:CE1	1:P:1014:TYR:HB3	2.42	0.54
1:A:808:GLU:HA	1:A:808:GLU:OE1	2.08	0.54
1:E:952:ARG:O	1:E:1018:LEU:HD23	2.08	0.54
1:F:952:ARG:O	1:F:1018:LEU:HD23	2.08	0.54
1:A:952:ARG:O	1:A:1018:LEU:HD23	2.08	0.54
1:L:5:ASP:OD2	1:L:157:ARG:HA	2.07	0.54
1:C:952:ARG:O	1:C:1018:LEU:HD23	2.08	0.54
1:D:952:ARG:O	1:D:1018:LEU:HD23	2.08	0.54
1:A:742:THR:HG22	1:A:743:SER:H	1.72	0.54
1:D:66:PRO:HB3	1:D:187:MET:HE1	1.90	0.54
1:D:37:ARG:HH11	1:D:37:ARG:CG	2.20	0.54
1:P:127:PHE:CE2	1:P:184:LEU:HG	2.42	0.54
1:E:50:GLN:O	1:E:215:LEU:HA	2.07	0.54
1:L:952:ARG:O	1:L:1018:LEU:HD23	2.08	0.54
1:B:737:ILE:HB	1:B:738:PRO:HD2	1.90	0.54
1:C:316:HIS:CA	1:C:323:ILE:HD13	2.33	0.54
1:K:920:LEU:HB3	1:K:921:PRO:CD	2.38	0.54
1:N:894:ARG:HH22	1:N:921:PRO:HD3	1.71	0.54
1:I:894:ARG:HH22	1:I:921:PRO:HD3	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:634:GLN:O	1:M:682:LEU:HB2	2.07	0.54
1:D:127:PHE:CE2	1:D:184:LEU:HG	2.42	0.54
1:G:876:THR:OG1	1:G:877:PRO:HD2	2.08	0.54
1:C:989:PHE:CE1	1:C:1014:TYR:HB3	2.42	0.54
1:M:876:THR:OG1	1:M:877:PRO:HD2	2.08	0.54
1:O:876:THR:OG1	1:O:877:PRO:HD2	2.08	0.54
1:J:952:ARG:O	1:J:1018:LEU:HD23	2.08	0.54
1:H:808:GLU:HA	1:H:808:GLU:OE1	2.08	0.54
1:I:5:ASP:OD2	1:I:157:ARG:HA	2.07	0.54
1:L:258:VAL:HA	1:L:312:VAL:O	2.07	0.54
1:N:515:VAL:HG21	1:O:281:GLU:HG3	1.90	0.54
1:N:50:GLN:O	1:N:215:LEU:HA	2.07	0.54
1:L:920:LEU:HB3	1:L:921:PRO:CD	2.38	0.54
1:C:634:GLN:O	1:C:682:LEU:HB2	2.07	0.54
1:G:595:THR:HG23	1:G:596:PRO:CA	2.38	0.54
1:P:278:ILE:H	1:P:278:ILE:CD1	2.21	0.54
1:A:425:ARG:NH2	1:D:287:ASP:CG	2.60	0.54
1:D:433:LEU:HD12	1:D:433:LEU:C	2.28	0.54
1:E:876:THR:OG1	1:E:877:PRO:HD2	2.08	0.54
1:F:737:ILE:HB	1:F:738:PRO:HD2	1.90	0.54
1:K:869:ASP:OD2	1:K:1015:HIS:ND1	2.33	0.54
1:N:737:ILE:HB	1:N:738:PRO:HD2	1.90	0.54
1:G:952:ARG:O	1:G:1018:LEU:HD23	2.08	0.54
1:I:737:ILE:HB	1:I:738:PRO:HD2	1.90	0.54
1:B:5:ASP:OD2	1:B:157:ARG:HA	2.07	0.54
1:P:737:ILE:HB	1:P:738:PRO:HD2	1.90	0.54
1:G:975:LEU:HD23	1:G:975:LEU:N	2.21	0.54
1:B:258:VAL:HA	1:B:312:VAL:O	2.07	0.54
1:B:433:LEU:HD12	1:B:433:LEU:C	2.28	0.54
1:K:433:LEU:HD12	1:K:433:LEU:C	2.28	0.54
1:F:781:ARG:HG3	1:F:781:ARG:NH1	2.17	0.54
1:F:634:GLN:O	1:F:682:LEU:HB2	2.07	0.54
1:P:634:GLN:O	1:P:682:LEU:HB2	2.07	0.54
1:O:634:GLN:O	1:O:682:LEU:HB2	2.07	0.54
1:C:37:ARG:CG	1:C:37:ARG:HH11	2.20	0.54
1:L:786:ARG:HH11	1:L:990:HIS:HE1	1.54	0.54
1:N:127:PHE:CE2	1:N:184:LEU:HG	2.42	0.54
1:J:130:ASP:OD1	1:J:131:GLU:N	2.41	0.54
1:I:876:THR:OG1	1:I:877:PRO:HD2	2.08	0.54
1:C:876:THR:OG1	1:C:877:PRO:HD2	2.08	0.54
1:O:130:ASP:OD1	1:O:131:GLU:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:952:ARG:O	1:K:1018:LEU:HD23	2.08	0.54
1:P:808:GLU:OE1	1:P:808:GLU:HA	2.08	0.54
1:J:433:LEU:C	1:J:433:LEU:HD12	2.28	0.54
1:B:920:LEU:HB3	1:B:921:PRO:CD	2.38	0.54
1:N:634:GLN:O	1:N:682:LEU:HB2	2.07	0.54
1:K:37:ARG:CG	1:K:37:ARG:HH11	2.20	0.54
1:A:634:GLN:O	1:A:682:LEU:HB2	2.08	0.54
1:M:595:THR:HG23	1:M:596:PRO:CA	2.37	0.54
1:J:786:ARG:HH11	1:J:990:HIS:HE1	1.54	0.54
1:C:645:ARG:HH22	1:C:650:GLU:CD	2.12	0.54
1:O:39:SER:OG	1:O:40:GLU:N	2.40	0.54
1:P:130:ASP:OD1	1:P:131:GLU:N	2.41	0.54
1:G:39:SER:OG	1:G:40:GLU:N	2.40	0.54
1:B:39:SER:OG	1:B:40:GLU:N	2.40	0.54
1:O:952:ARG:O	1:O:1018:LEU:HD23	2.08	0.54
1:N:975:LEU:HD23	1:N:975:LEU:N	2.21	0.54
1:I:742:THR:HG22	1:I:743:SER:H	1.73	0.54
1:K:742:THR:HG22	1:K:743:SER:H	1.73	0.54
1:E:433:LEU:HD12	1:E:433:LEU:C	2.28	0.54
1:E:254:LEU:C	1:E:255:ARG:HG2	2.28	0.54
1:F:254:LEU:C	1:F:255:ARG:HG2	2.28	0.54
1:I:254:LEU:C	1:I:255:ARG:HG2	2.28	0.54
1:H:255:ARG:HG2	1:H:255:ARG:NH1	2.14	0.54
1:O:254:LEU:C	1:O:255:ARG:HG2	2.28	0.54
1:P:433:LEU:C	1:P:433:LEU:HD12	2.28	0.54
1:L:433:LEU:HD12	1:L:433:LEU:C	2.28	0.54
1:A:595:THR:HG23	1:A:596:PRO:CA	2.37	0.54
1:F:127:PHE:CE2	1:F:184:LEU:HG	2.42	0.54
1:C:127:PHE:CE2	1:C:184:LEU:HG	2.42	0.54
1:N:876:THR:OG1	1:N:877:PRO:HD2	2.08	0.54
1:B:645:ARG:HH22	1:B:650:GLU:CD	2.12	0.54
1:L:737:ILE:HB	1:L:738:PRO:HD2	1.90	0.54
1:M:737:ILE:HB	1:M:738:PRO:HD2	1.90	0.54
1:K:258:VAL:HA	1:K:312:VAL:O	2.07	0.54
1:O:737:ILE:HB	1:O:738:PRO:HD2	1.90	0.54
1:J:39:SER:OG	1:J:40:GLU:N	2.40	0.54
1:E:130:ASP:OD1	1:E:132:SER:N	2.30	0.54
1:E:894:ARG:HH22	1:E:921:PRO:HD3	1.71	0.53
1:L:254:LEU:C	1:L:255:ARG:HG2	2.28	0.53
1:L:66:PRO:HB3	1:L:187:MET:HE1	1.90	0.53
1:P:254:LEU:C	1:P:255:ARG:HG2	2.28	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:254:LEU:C	1:G:255:ARG:HG2	2.28	0.53
1:A:649:ASN:OD1	1:A:703:PRO:HD2	2.09	0.53
1:L:631:LEU:HD12	1:L:632:SER:N	2.24	0.53
1:D:876:THR:OG1	1:D:877:PRO:HD2	2.08	0.53
1:K:14:ARG:HG2	1:K:16:TRP:CZ2	2.43	0.53
1:M:130:ASP:OD1	1:M:131:GLU:N	2.41	0.53
1:L:645:ARG:HH22	1:L:650:GLU:CD	2.12	0.53
1:G:808:GLU:OE1	1:G:808:GLU:HA	2.08	0.53
1:H:737:ILE:HB	1:H:738:PRO:HD2	1.90	0.53
1:H:952:ARG:O	1:H:1018:LEU:HD23	2.08	0.53
1:B:952:ARG:O	1:B:1018:LEU:HD23	2.08	0.53
1:B:7:LEU:HD13	1:B:74:LEU:CD1	2.32	0.53
1:C:249:GLU:HG2	1:C:251:ARG:HH12	1.67	0.53
1:P:920:LEU:HB3	1:P:921:PRO:CD	2.38	0.53
1:E:66:PRO:HB3	1:E:187:MET:HE1	1.91	0.53
1:P:66:PRO:HB3	1:P:187:MET:HE1	1.89	0.53
1:H:634:GLN:O	1:H:682:LEU:HB2	2.07	0.53
1:N:37:ARG:HH11	1:N:37:ARG:CG	2.20	0.53
1:D:649:ASN:OD1	1:D:703:PRO:HD2	2.09	0.53
1:J:631:LEU:HD12	1:J:632:SER:N	2.24	0.53
1:A:433:LEU:HD12	1:A:433:LEU:C	2.28	0.53
1:P:246:MET:HE3	1:P:247:CYS:C	2.28	0.53
1:K:246:MET:HE3	1:K:247:CYS:C	2.29	0.53
1:M:236:SER:OG	1:M:237:ARG:HD3	2.09	0.53
1:E:127:PHE:CE2	1:E:184:LEU:HG	2.42	0.53
1:K:127:PHE:CE2	1:K:184:LEU:HG	2.42	0.53
1:J:876:THR:OG1	1:J:877:PRO:HD2	2.08	0.53
1:K:876:THR:OG1	1:K:877:PRO:HD2	2.08	0.53
1:F:645:ARG:HH22	1:F:650:GLU:CD	2.12	0.53
1:K:645:ARG:HH22	1:K:650:GLU:CD	2.12	0.53
1:O:645:ARG:HH22	1:O:650:GLU:CD	2.12	0.53
1:N:130:ASP:OD1	1:N:131:GLU:N	2.41	0.53
1:O:141:ILE:HG12	1:O:142:ILE:N	2.24	0.53
1:C:141:ILE:HG12	1:C:142:ILE:N	2.24	0.53
1:F:141:ILE:HG12	1:F:142:ILE:N	2.24	0.53
1:G:737:ILE:HB	1:G:738:PRO:HD2	1.90	0.53
1:C:808:GLU:OE1	1:C:808:GLU:HA	2.08	0.53
1:D:910:LEU:HD12	1:D:910:LEU:C	2.29	0.53
1:K:808:GLU:HA	1:K:808:GLU:OE1	2.08	0.53
1:I:952:ARG:O	1:I:1018:LEU:HD23	2.08	0.53
1:J:742:THR:HG22	1:J:743:SER:H	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:433:LEU:HD12	1:F:433:LEU:C	2.28	0.53
1:D:254:LEU:C	1:D:255:ARG:HG2	2.28	0.53
1:I:634:GLN:O	1:I:682:LEU:HB2	2.07	0.53
1:J:634:GLN:O	1:J:682:LEU:HB2	2.07	0.53
1:N:433:LEU:C	1:N:433:LEU:HD12	2.28	0.53
1:B:631:LEU:HD12	1:B:632:SER:N	2.24	0.53
1:E:236:SER:OG	1:E:237:ARG:HD3	2.09	0.53
1:I:14:ARG:HG2	1:I:16:TRP:CZ2	2.43	0.53
1:L:876:THR:OG1	1:L:877:PRO:HD2	2.08	0.53
1:H:645:ARG:HH22	1:H:650:GLU:CD	2.12	0.53
1:A:130:ASP:OD1	1:A:131:GLU:N	2.41	0.53
1:H:130:ASP:OD1	1:H:131:GLU:N	2.41	0.53
1:E:130:ASP:OD1	1:E:131:GLU:N	2.41	0.53
1:N:638:VAL:O	1:N:677:LYS:HA	2.09	0.53
1:A:39:SER:OG	1:A:40:GLU:N	2.40	0.53
1:M:952:ARG:O	1:M:1018:LEU:HD23	2.08	0.53
1:E:141:ILE:HG12	1:E:142:ILE:N	2.24	0.53
1:E:910:LEU:HD12	1:E:910:LEU:C	2.29	0.53
1:O:910:LEU:HD12	1:O:910:LEU:C	2.29	0.53
1:J:737:ILE:HB	1:J:738:PRO:HD2	1.90	0.53
1:E:638:VAL:O	1:E:677:LYS:HA	2.09	0.53
1:F:808:GLU:OE1	1:F:808:GLU:HA	2.08	0.53
1:K:737:ILE:HB	1:K:738:PRO:HD2	1.90	0.53
1:P:745:MET:HA	1:P:745:MET:HE2	1.91	0.53
1:G:7:LEU:HD13	1:G:74:LEU:CD1	2.32	0.53
1:M:254:LEU:C	1:M:255:ARG:HG2	2.28	0.53
1:H:254:LEU:C	1:H:255:ARG:HG2	2.28	0.53
1:B:254:LEU:C	1:B:255:ARG:HG2	2.28	0.53
1:H:37:ARG:HH11	1:H:37:ARG:CG	2.20	0.53
1:B:649:ASN:OD1	1:B:703:PRO:HD2	2.09	0.53
1:H:649:ASN:OD1	1:H:703:PRO:HD2	2.09	0.53
1:H:631:LEU:HD12	1:H:632:SER:N	2.24	0.53
1:A:631:LEU:HD12	1:A:632:SER:N	2.24	0.53
1:F:631:LEU:HD12	1:F:632:SER:N	2.24	0.53
1:A:246:MET:HE3	1:A:247:CYS:C	2.28	0.53
1:O:127:PHE:CE2	1:O:184:LEU:HG	2.42	0.53
1:F:14:ARG:HG2	1:F:16:TRP:CZ2	2.44	0.53
1:N:14:ARG:HG2	1:N:16:TRP:CZ2	2.43	0.53
1:C:130:ASP:OD1	1:C:131:GLU:N	2.41	0.53
1:G:645:ARG:HH22	1:G:650:GLU:CD	2.12	0.53
1:G:130:ASP:OD1	1:G:131:GLU:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:130:ASP:OD1	1:L:131:GLU:N	2.41	0.53
1:H:974:HIS:NE2	1:H:975:LEU:HD21	2.24	0.53
1:P:130:ASP:OD1	1:P:132:SER:N	2.30	0.53
1:M:808:GLU:OE1	1:M:808:GLU:HA	2.08	0.53
1:G:638:VAL:O	1:G:677:LYS:HA	2.09	0.53
1:P:141:ILE:HG12	1:P:142:ILE:N	2.24	0.53
1:K:910:LEU:C	1:K:910:LEU:HD12	2.29	0.53
1:C:910:LEU:HD12	1:C:910:LEU:C	2.29	0.53
1:B:638:VAL:O	1:B:677:LYS:HA	2.09	0.53
1:E:287:ASP:OD2	1:H:425:ARG:NH2	2.42	0.53
1:C:433:LEU:HD12	1:C:433:LEU:C	2.28	0.53
1:I:651:LEU:CD1	1:I:669:PRO:HA	2.39	0.53
1:L:7:LEU:HD13	1:L:74:LEU:CD1	2.32	0.53
1:J:920:LEU:HB3	1:J:921:PRO:CD	2.38	0.53
1:C:595:THR:HG23	1:C:596:PRO:CA	2.37	0.53
1:L:649:ASN:OD1	1:L:703:PRO:HD2	2.09	0.53
1:N:278:ILE:CD1	1:N:278:ILE:H	2.21	0.53
1:P:236:SER:OG	1:P:237:ARG:HD3	2.09	0.53
1:F:236:SER:OG	1:F:237:ARG:HD3	2.09	0.53
1:O:236:SER:OG	1:O:237:ARG:HD3	2.09	0.53
1:J:127:PHE:CE2	1:J:184:LEU:HG	2.42	0.53
1:L:14:ARG:HG2	1:L:16:TRP:CZ2	2.44	0.53
1:B:473:ARG:HD2	1:C:469:ASP:HB3	1.90	0.53
1:M:282:ARG:HB3	1:P:421:VAL:HG22	1.91	0.53
1:H:5:ASP:OD2	1:H:157:ARG:HA	2.07	0.53
1:N:808:GLU:OE1	1:N:808:GLU:HA	2.08	0.53
1:A:5:ASP:OD2	1:A:157:ARG:HA	2.07	0.53
1:P:910:LEU:HD12	1:P:910:LEU:C	2.29	0.53
1:H:910:LEU:C	1:H:910:LEU:HD12	2.29	0.53
1:E:737:ILE:HB	1:E:738:PRO:HD2	1.90	0.53
1:L:742:THR:HG22	1:L:743:SER:H	1.73	0.53
1:K:316:HIS:CA	1:K:323:ILE:HD13	2.32	0.53
1:P:649:ASN:OD1	1:P:703:PRO:HD2	2.09	0.53
1:K:649:ASN:OD1	1:K:703:PRO:HD2	2.09	0.53
1:G:631:LEU:HD12	1:G:632:SER:N	2.24	0.53
1:O:631:LEU:HD12	1:O:632:SER:N	2.24	0.53
1:I:78:LEU:HD23	1:I:78:LEU:N	2.21	0.53
1:C:14:ARG:HG2	1:C:16:TRP:CZ2	2.43	0.53
1:K:473:ARG:C	1:K:473:ARG:HD3	2.29	0.53
1:J:645:ARG:HH22	1:J:650:GLU:CD	2.12	0.53
1:P:974:HIS:NE2	1:P:975:LEU:HD21	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:638:VAL:O	1:A:677:LYS:HA	2.09	0.53
1:J:910:LEU:HD12	1:J:910:LEU:C	2.29	0.53
1:M:651:LEU:CD1	1:M:669:PRO:HA	2.39	0.53
1:N:651:LEU:CD1	1:N:669:PRO:HA	2.39	0.53
1:L:651:LEU:CD1	1:L:669:PRO:HA	2.39	0.53
1:J:316:HIS:CA	1:J:323:ILE:HD13	2.32	0.53
1:D:920:LEU:HB3	1:D:921:PRO:CD	2.38	0.53
1:F:249:GLU:HG2	1:F:251:ARG:HH12	1.67	0.53
1:L:634:GLN:O	1:L:682:LEU:HB2	2.07	0.53
1:C:634:GLN:HE22	1:C:685:LEU:H	1.57	0.53
1:O:433:LEU:HD12	1:O:433:LEU:C	2.28	0.53
1:N:649:ASN:OD1	1:N:703:PRO:HD2	2.09	0.53
1:G:649:ASN:OD1	1:G:703:PRO:HD2	2.09	0.53
1:D:631:LEU:HD12	1:D:632:SER:N	2.24	0.53
1:N:631:LEU:HD12	1:N:632:SER:N	2.24	0.53
1:F:246:MET:HE3	1:F:247:CYS:C	2.29	0.53
1:L:236:SER:OG	1:L:237:ARG:HD3	2.09	0.53
1:B:876:THR:OG1	1:B:877:PRO:HD2	2.08	0.53
1:F:876:THR:OG1	1:F:877:PRO:HD2	2.08	0.53
1:M:14:ARG:HG2	1:M:16:TRP:CZ2	2.43	0.53
1:G:835:LEU:O	1:G:836:ILE:HD13	2.09	0.53
1:I:974:HIS:NE2	1:I:975:LEU:HD21	2.24	0.53
1:K:73:TRP:CE2	1:K:122:CYS:HB3	2.44	0.53
1:I:638:VAL:O	1:I:677:LYS:HA	2.09	0.53
1:C:638:VAL:O	1:C:677:LYS:HA	2.09	0.53
1:J:287:ASP:OD2	1:K:425:ARG:NH2	2.41	0.53
1:M:73:TRP:CE2	1:M:122:CYS:HB3	2.44	0.53
1:D:737:ILE:HB	1:D:738:PRO:HD2	1.90	0.53
1:I:39:SER:OG	1:I:40:GLU:N	2.40	0.53
1:L:141:ILE:HG12	1:L:142:ILE:N	2.24	0.53
1:H:742:THR:HG22	1:H:743:SER:H	1.73	0.53
1:B:668:VAL:CG1	1:B:669:PRO:HD2	2.31	0.53
1:C:254:LEU:C	1:C:255:ARG:HG2	2.28	0.53
1:P:255:ARG:HG2	1:P:255:ARG:NH1	2.14	0.53
1:A:634:GLN:HE22	1:A:685:LEU:H	1.57	0.53
1:E:631:LEU:HD12	1:E:632:SER:N	2.24	0.53
1:M:127:PHE:CE2	1:M:184:LEU:HG	2.42	0.53
1:N:645:ARG:HH22	1:N:650:GLU:CD	2.12	0.53
1:J:835:LEU:O	1:J:836:ILE:HD13	2.09	0.53
1:B:130:ASP:OD1	1:B:131:GLU:N	2.41	0.53
1:A:974:HIS:NE2	1:A:975:LEU:HD21	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:974:HIS:NE2	1:J:975:LEU:HD21	2.24	0.53
1:L:403:ASP:OD2	1:L:450:HIS:ND1	2.34	0.53
1:D:974:HIS:NE2	1:D:975:LEU:HD21	2.24	0.53
1:M:974:HIS:NE2	1:M:975:LEU:HD21	2.24	0.53
1:K:130:ASP:OD1	1:K:131:GLU:N	2.41	0.53
1:L:974:HIS:NE2	1:L:975:LEU:HD21	2.24	0.53
1:J:73:TRP:CE2	1:J:122:CYS:HB3	2.44	0.53
1:I:141:ILE:HG12	1:I:142:ILE:N	2.24	0.53
1:B:808:GLU:OE1	1:B:808:GLU:HA	2.08	0.53
1:A:737:ILE:HB	1:A:738:PRO:HD2	1.90	0.53
1:O:808:GLU:OE1	1:O:808:GLU:HA	2.08	0.53
1:J:808:GLU:HA	1:J:808:GLU:OE1	2.08	0.53
1:N:867:THR:HG22	1:N:867:THR:O	2.09	0.53
1:A:910:LEU:HD12	1:A:910:LEU:C	2.29	0.53
1:N:952:ARG:O	1:N:1018:LEU:HD23	2.08	0.53
1:K:287:ASP:N	1:K:287:ASP:OD1	2.29	0.53
1:I:73:TRP:CE2	1:I:122:CYS:HB3	2.44	0.53
1:O:742:THR:HG22	1:O:743:SER:H	1.73	0.53
1:L:740:LEU:CD1	1:L:741:THR:H	2.12	0.53
1:K:651:LEU:CD1	1:K:669:PRO:HA	2.39	0.53
1:H:651:LEU:CD1	1:H:669:PRO:HA	2.39	0.53
1:I:433:LEU:C	1:I:433:LEU:HD12	2.28	0.53
1:O:649:ASN:OD1	1:O:703:PRO:HD2	2.09	0.53
1:E:649:ASN:OD1	1:E:703:PRO:HD2	2.09	0.53
1:J:78:LEU:N	1:J:78:LEU:HD23	2.21	0.53
1:E:246:MET:HE3	1:E:247:CYS:CA	2.39	0.53
1:C:236:SER:OG	1:C:237:ARG:HD3	2.09	0.53
1:J:236:SER:OG	1:J:237:ARG:HD3	2.09	0.53
1:J:14:ARG:HG2	1:J:16:TRP:CZ2	2.43	0.53
1:P:876:THR:OG1	1:P:877:PRO:HD2	2.08	0.53
1:E:835:LEU:O	1:E:836:ILE:HD13	2.09	0.53
1:O:403:ASP:OD2	1:O:450:HIS:ND1	2.34	0.53
1:G:403:ASP:OD2	1:G:450:HIS:ND1	2.34	0.53
1:L:835:LEU:O	1:L:836:ILE:HD13	2.09	0.53
1:B:974:HIS:NE2	1:B:975:LEU:HD21	2.24	0.53
1:P:69:VAL:HG13	1:P:70:PRO:HD2	1.91	0.53
1:D:638:VAL:O	1:D:677:LYS:HA	2.09	0.53
1:L:910:LEU:C	1:L:910:LEU:HD12	2.29	0.53
1:H:73:TRP:CE2	1:H:122:CYS:HB3	2.44	0.53
1:C:737:ILE:HB	1:C:738:PRO:HD2	1.90	0.53
1:M:141:ILE:HG12	1:M:142:ILE:N	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:638:VAL:O	1:L:677:LYS:HA	2.09	0.53
1:B:651:LEU:CD1	1:B:669:PRO:HA	2.39	0.53
1:I:579:ASP:N	1:I:583:ASN:O	2.40	0.53
1:D:781:ARG:HH11	1:D:781:ARG:CG	2.19	0.53
1:G:920:LEU:HB3	1:G:921:PRO:CD	2.38	0.53
1:K:254:LEU:C	1:K:255:ARG:HG2	2.28	0.53
1:A:254:LEU:C	1:A:255:ARG:HG2	2.28	0.53
1:K:631:LEU:HD12	1:K:632:SER:N	2.24	0.53
1:O:278:ILE:H	1:O:278:ILE:CD1	2.21	0.53
1:M:631:LEU:HD12	1:M:632:SER:N	2.24	0.53
1:M:278:ILE:CD1	1:M:278:ILE:H	2.21	0.53
1:K:78:LEU:N	1:K:78:LEU:HD23	2.21	0.53
1:D:278:ILE:H	1:D:278:ILE:CD1	2.21	0.53
1:G:236:SER:OG	1:G:237:ARG:HD3	2.09	0.53
1:C:579:ASP:N	1:C:583:ASN:O	2.40	0.53
1:M:987:ASP:OD2	1:M:990:HIS:HD2	1.92	0.53
1:B:14:ARG:HG2	1:B:16:TRP:CZ2	2.43	0.53
1:D:473:ARG:HD3	1:D:473:ARG:C	2.30	0.53
1:J:473:ARG:HD3	1:J:473:ARG:C	2.29	0.53
1:A:645:ARG:HH22	1:A:650:GLU:CD	2.12	0.53
1:C:835:LEU:O	1:C:836:ILE:HD13	2.09	0.53
1:F:638:VAL:O	1:F:677:LYS:HA	2.09	0.53
1:E:73:TRP:CE2	1:E:122:CYS:HB3	2.44	0.53
1:F:73:TRP:CE2	1:F:122:CYS:HB3	2.44	0.53
1:G:73:TRP:CE2	1:G:122:CYS:HB3	2.44	0.53
1:D:211:ASP:N	1:D:211:ASP:OD1	2.42	0.53
1:I:819:GLU:OE2	1:I:819:GLU:HA	2.09	0.53
1:E:808:GLU:OE1	1:E:808:GLU:HA	2.08	0.53
1:G:141:ILE:HG12	1:G:142:ILE:N	2.24	0.53
1:L:808:GLU:OE1	1:L:808:GLU:HA	2.08	0.53
1:K:39:SER:OG	1:K:40:GLU:N	2.40	0.53
1:C:740:LEU:CD1	1:C:741:THR:H	2.12	0.52
1:P:651:LEU:CD1	1:P:669:PRO:HA	2.39	0.52
1:H:920:LEU:HB3	1:H:921:PRO:CD	2.38	0.52
1:O:595:THR:HG23	1:O:596:PRO:CA	2.38	0.52
1:J:595:THR:HG23	1:J:596:PRO:CA	2.37	0.52
1:I:236:SER:OG	1:I:237:ARG:HD3	2.09	0.52
1:L:597:ASN:HD22	1:L:599:ARG:H	1.57	0.52
1:L:987:ASP:OD2	1:L:990:HIS:HD2	1.92	0.52
1:N:987:ASP:OD2	1:N:990:HIS:HD2	1.92	0.52
1:O:14:ARG:HG2	1:O:16:TRP:CZ2	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:14:ARG:HG2	1:G:16:TRP:CZ2	2.44	0.52
1:M:645:ARG:HH22	1:M:650:GLU:CD	2.12	0.52
1:M:835:LEU:O	1:M:836:ILE:HD13	2.09	0.52
1:F:974:HIS:NE2	1:F:975:LEU:HD21	2.24	0.52
1:F:130:ASP:OD1	1:F:131:GLU:N	2.41	0.52
1:N:974:HIS:NE2	1:N:975:LEU:HD21	2.24	0.52
1:K:69:VAL:HG13	1:K:70:PRO:HD2	1.91	0.52
1:J:425:ARG:NH2	1:K:287:ASP:OD2	2.42	0.52
1:H:69:VAL:HG13	1:H:70:PRO:HD2	1.91	0.52
1:I:130:ASP:OD1	1:I:131:GLU:N	2.41	0.52
1:D:69:VAL:HG13	1:D:70:PRO:HD2	1.91	0.52
1:D:130:ASP:OD1	1:D:131:GLU:N	2.41	0.52
1:H:638:VAL:O	1:H:677:LYS:HA	2.09	0.52
1:I:808:GLU:OE1	1:I:808:GLU:HA	2.08	0.52
1:F:910:LEU:C	1:F:910:LEU:HD12	2.29	0.52
1:G:910:LEU:C	1:G:910:LEU:HD12	2.29	0.52
1:B:819:GLU:HA	1:B:819:GLU:OE2	2.09	0.52
1:K:638:VAL:O	1:K:677:LYS:HA	2.09	0.52
1:D:742:THR:HG22	1:D:743:SER:H	1.73	0.52
1:P:742:THR:HG22	1:P:743:SER:H	1.73	0.52
1:G:433:LEU:C	1:G:433:LEU:HD12	2.28	0.52
1:H:433:LEU:HD12	1:H:433:LEU:C	2.28	0.52
1:K:634:GLN:HE22	1:K:685:LEU:H	1.57	0.52
1:M:423:MET:HE2	1:P:282:ARG:HG2	1.90	0.52
1:I:631:LEU:HD12	1:I:632:SER:N	2.24	0.52
1:I:282:ARG:HH11	1:L:419:GLY:HA2	1.74	0.52
1:A:597:ASN:HD22	1:A:599:ARG:H	1.57	0.52
1:A:14:ARG:HG2	1:A:16:TRP:CZ2	2.44	0.52
1:C:403:ASP:OD2	1:C:450:HIS:ND1	2.34	0.52
1:I:69:VAL:HG13	1:I:70:PRO:HD2	1.91	0.52
1:M:638:VAL:O	1:M:677:LYS:HA	2.09	0.52
1:J:141:ILE:HG12	1:J:142:ILE:N	2.24	0.52
1:J:819:GLU:OE2	1:J:819:GLU:HA	2.09	0.52
1:A:867:THR:O	1:A:867:THR:HG22	2.09	0.52
1:L:819:GLU:HA	1:L:819:GLU:OE2	2.09	0.52
1:M:910:LEU:HD12	1:M:910:LEU:C	2.29	0.52
1:N:910:LEU:HD12	1:N:910:LEU:C	2.29	0.52
1:O:68:ALA:O	1:O:70:PRO:HD3	2.10	0.52
1:C:73:TRP:CE2	1:C:122:CYS:HB3	2.44	0.52
1:M:742:THR:HG22	1:M:743:SER:H	1.73	0.52
1:E:316:HIS:CA	1:E:323:ILE:HD13	2.32	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:651:LEU:CD1	1:G:669:PRO:HA	2.39	0.52
1:J:894:ARG:HH22	1:J:921:PRO:HD3	1.71	0.52
1:A:653[A]:HIS:HD2	1:A:666:GLY:O	1.93	0.52
1:A:37:ARG:HH11	1:A:37:ARG:CG	2.20	0.52
1:F:649:ASN:OD1	1:F:703:PRO:HD2	2.09	0.52
1:A:282:ARG:HH11	1:D:419:GLY:C	2.12	0.52
1:B:246:MET:HE3	1:B:247:CYS:CA	2.40	0.52
1:J:246:MET:HE3	1:J:247:CYS:C	2.30	0.52
1:I:597:ASN:HD22	1:I:599:ARG:H	1.57	0.52
1:F:987:ASP:OD2	1:F:990:HIS:HD2	1.93	0.52
1:E:473:ARG:HD3	1:E:473:ARG:C	2.29	0.52
1:B:473:ARG:HD3	1:B:473:ARG:C	2.29	0.52
1:A:835:LEU:O	1:A:836:ILE:HD13	2.09	0.52
1:E:974:HIS:NE2	1:E:975:LEU:HD21	2.24	0.52
1:G:974:HIS:NE2	1:G:975:LEU:HD21	2.24	0.52
1:P:68:ALA:O	1:P:70:PRO:HD3	2.10	0.52
1:L:39:SER:OG	1:L:40:GLU:N	2.40	0.52
1:L:68:ALA:O	1:L:70:PRO:HD3	2.10	0.52
1:O:638:VAL:O	1:O:677:LYS:HA	2.09	0.52
1:M:867:THR:HG22	1:M:867:THR:O	2.09	0.52
1:P:819:GLU:HA	1:P:819:GLU:OE2	2.09	0.52
1:D:867:THR:HG22	1:D:867:THR:O	2.09	0.52
1:N:73:TRP:CE2	1:N:122:CYS:HB3	2.44	0.52
1:E:39:SER:OG	1:E:40:GLU:N	2.40	0.52
1:F:740:LEU:CD1	1:F:741:THR:H	2.12	0.52
1:D:316:HIS:CA	1:D:323:ILE:HD13	2.32	0.52
1:D:894:ARG:HH22	1:D:921:PRO:HD3	1.71	0.52
1:N:254:LEU:C	1:N:255:ARG:HG2	2.28	0.52
1:H:653[A]:HIS:HD2	1:H:666:GLY:O	1.93	0.52
1:J:653[A]:HIS:HD2	1:J:666:GLY:O	1.93	0.52
1:K:653[A]:HIS:HD2	1:K:666:GLY:O	1.93	0.52
1:P:634:GLN:HE22	1:P:685:LEU:H	1.57	0.52
1:H:634:GLN:HE22	1:H:685:LEU:H	1.57	0.52
1:L:595:THR:HG23	1:L:596:PRO:CA	2.38	0.52
1:C:649:ASN:OD1	1:C:703:PRO:HD2	2.09	0.52
1:M:649:ASN:OD1	1:M:703:PRO:HD2	2.09	0.52
1:A:278:ILE:H	1:A:278:ILE:CD1	2.21	0.52
1:N:236:SER:OG	1:N:237:ARG:HD3	2.09	0.52
1:G:6:SER:O	1:G:9:VAL:HG12	2.10	0.52
1:E:6:SER:O	1:E:9:VAL:HG12	2.10	0.52
1:C:246:MET:HE3	1:C:247:CYS:C	2.30	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:236:SER:OG	1:B:237:ARG:HD3	2.09	0.52
1:F:597:ASN:HD22	1:F:599:ARG:H	1.57	0.52
1:K:987:ASP:OD2	1:K:990:HIS:HD2	1.93	0.52
1:A:987:ASP:OD2	1:A:990:HIS:HD2	1.92	0.52
1:H:14:ARG:HG2	1:H:16:TRP:CZ2	2.44	0.52
1:C:473:ARG:HD3	1:C:473:ARG:C	2.29	0.52
1:I:473:ARG:HD3	1:I:473:ARG:C	2.29	0.52
1:E:645:ARG:HH22	1:E:650:GLU:CD	2.12	0.52
1:F:69:VAL:HG13	1:F:70:PRO:HD2	1.91	0.52
1:J:638:VAL:O	1:J:677:LYS:HA	2.09	0.52
1:I:910:LEU:C	1:I:910:LEU:HD12	2.29	0.52
1:J:651:LEU:CD1	1:J:669:PRO:HA	2.39	0.52
1:E:651:LEU:CD1	1:E:669:PRO:HA	2.39	0.52
1:G:781:ARG:NH1	1:G:781:ARG:HG3	2.17	0.52
1:A:894:ARG:HH22	1:A:921:PRO:HD3	1.71	0.52
1:P:653[A]:HIS:HD2	1:P:666:GLY:O	1.93	0.52
1:M:433:LEU:HD12	1:M:433:LEU:C	2.28	0.52
1:N:595:THR:HG23	1:N:596:PRO:CA	2.37	0.52
1:K:663:LEU:N	1:K:663:LEU:HD23	2.24	0.52
1:N:246:MET:HE3	1:N:247:CYS:CA	2.39	0.52
1:D:236:SER:OG	1:D:237:ARG:HD3	2.09	0.52
1:A:6:SER:O	1:A:9:VAL:HG12	2.10	0.52
1:P:987:ASP:OD2	1:P:990:HIS:HD2	1.93	0.52
1:L:127:PHE:CE2	1:L:184:LEU:HG	2.42	0.52
1:H:876:THR:OG1	1:H:877:PRO:HD2	2.08	0.52
1:F:473:ARG:HD2	1:G:469:ASP:HB3	1.91	0.52
1:J:403:ASP:OD2	1:J:450:HIS:ND1	2.34	0.52
1:D:835:LEU:O	1:D:836:ILE:HD13	2.09	0.52
1:C:974:HIS:NE2	1:C:975:LEU:HD21	2.24	0.52
1:P:73:TRP:CE2	1:P:122:CYS:HB3	2.44	0.52
1:O:69:VAL:HG13	1:O:70:PRO:HD2	1.91	0.52
1:L:73:TRP:CE2	1:L:122:CYS:HB3	2.44	0.52
1:N:69:VAL:HG13	1:N:70:PRO:HD2	1.91	0.52
1:M:39:SER:OG	1:M:40:GLU:N	2.40	0.52
1:G:819:GLU:OE2	1:G:819:GLU:HA	2.09	0.52
1:F:651:LEU:CD1	1:F:669:PRO:HA	2.39	0.52
1:J:433:LEU:N	1:J:434:PRO:CD	2.73	0.52
1:K:433:LEU:N	1:K:434:PRO:CD	2.73	0.52
1:I:634:GLN:HE22	1:I:685:LEU:H	1.57	0.52
1:N:653[A]:HIS:HD2	1:N:666:GLY:O	1.93	0.52
1:M:653[A]:HIS:HD2	1:M:666:GLY:O	1.93	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:634:GLN:HE22	1:M:685:LEU:H	1.57	0.52
1:I:433:LEU:N	1:I:434:PRO:CD	2.73	0.52
1:I:278:ILE:CD1	1:I:278:ILE:H	2.21	0.52
1:K:6:SER:O	1:K:9:VAL:HG12	2.10	0.52
1:J:6:SER:O	1:J:9:VAL:HG12	2.10	0.52
1:E:9:VAL:O	1:E:12:GLN:HB3	2.10	0.52
1:A:236:SER:OG	1:A:237:ARG:HD3	2.09	0.52
1:F:6:SER:O	1:F:9:VAL:HG12	2.10	0.52
1:B:987:ASP:OD2	1:B:990:HIS:HD2	1.93	0.52
1:E:14:ARG:HG2	1:E:16:TRP:CZ2	2.43	0.52
1:A:876:THR:OG1	1:A:877:PRO:HD2	2.08	0.52
1:D:645:ARG:HH22	1:D:650:GLU:CD	2.12	0.52
1:E:68:ALA:O	1:E:70:PRO:HD3	2.10	0.52
1:G:69:VAL:HG13	1:G:70:PRO:HD2	1.91	0.52
1:L:69:VAL:HG13	1:L:70:PRO:HD2	1.91	0.52
1:M:68:ALA:O	1:M:70:PRO:HD3	2.10	0.52
1:D:772:ASP:N	1:D:772:ASP:OD1	2.30	0.52
1:N:819:GLU:HA	1:N:819:GLU:OE2	2.09	0.52
1:B:73:TRP:CE2	1:B:122:CYS:HB3	2.44	0.52
1:O:869:ASP:OD2	1:O:1015:HIS:ND1	2.33	0.52
1:H:141:ILE:HG12	1:H:142:ILE:N	2.24	0.52
1:N:740:LEU:CD1	1:N:741:THR:H	2.12	0.52
1:E:742:THR:HG22	1:E:743:SER:H	1.73	0.52
1:G:745:MET:HE2	1:G:745:MET:HA	1.92	0.52
1:B:894:ARG:HH22	1:B:921:PRO:HD3	1.71	0.52
1:J:254:LEU:C	1:J:255:ARG:HG2	2.28	0.52
1:B:53:SER:O	1:B:54:LEU:HD23	2.10	0.52
1:K:595:THR:HG23	1:K:596:PRO:CA	2.37	0.52
1:K:9:VAL:O	1:K:12:GLN:HB3	2.10	0.52
1:A:282:ARG:NH1	1:D:419:GLY:HA2	2.25	0.52
1:I:6:SER:O	1:I:9:VAL:HG12	2.10	0.52
1:K:30:HIS:CE1	1:K:33:PHE:CD1	2.98	0.52
1:C:9:VAL:O	1:C:12:GLN:HB3	2.10	0.52
1:I:246:MET:HE3	1:I:247:CYS:C	2.30	0.52
1:L:6:SER:O	1:L:9:VAL:HG12	2.10	0.52
1:P:9:VAL:O	1:P:12:GLN:HB3	2.10	0.52
1:G:597:ASN:HD22	1:G:599:ARG:H	1.57	0.52
1:N:9:VAL:O	1:N:12:GLN:HB3	2.10	0.52
1:N:597:ASN:HD22	1:N:599:ARG:H	1.57	0.52
1:P:14:ARG:HG2	1:P:16:TRP:CZ2	2.43	0.52
1:I:645:ARG:HH22	1:I:650:GLU:CD	2.12	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:645:ARG:HH22	1:P:650:GLU:CD	2.12	0.52
1:H:403:ASP:OD2	1:H:450:HIS:ND1	2.34	0.52
1:B:835:LEU:O	1:B:836:ILE:HD13	2.09	0.52
1:P:835:LEU:O	1:P:836:ILE:HD13	2.09	0.52
1:O:974:HIS:NE2	1:O:975:LEU:HD21	2.24	0.52
1:K:974:HIS:NE2	1:K:975:LEU:HD21	2.24	0.52
1:N:835:LEU:O	1:N:836:ILE:HD13	2.09	0.52
1:J:68:ALA:O	1:J:70:PRO:HD3	2.10	0.52
1:D:130:ASP:OD1	1:D:132:SER:N	2.29	0.52
1:P:638:VAL:O	1:P:677:LYS:HA	2.09	0.52
1:J:512:PHE:HE1	1:J:517:LYS:HG3	1.75	0.52
1:C:39:SER:OG	1:C:40:GLU:N	2.40	0.52
1:B:910:LEU:C	1:B:910:LEU:HD12	2.29	0.52
1:L:610:ASP:O	1:L:611:ARG:HB2	2.10	0.52
1:M:610:ASP:O	1:M:611:ARG:HB2	2.10	0.52
1:D:651:LEU:CD1	1:D:669:PRO:HA	2.39	0.52
1:I:65:ALA:HB1	1:I:66:PRO:CD	2.39	0.52
1:I:653[A]:HIS:HD2	1:I:666:GLY:O	1.93	0.52
1:D:653[A]:HIS:HD2	1:D:666:GLY:O	1.93	0.52
1:L:433:LEU:N	1:L:434:PRO:CD	2.73	0.52
1:F:595:THR:HG23	1:F:596:PRO:CA	2.38	0.52
1:I:649:ASN:OD1	1:I:703:PRO:HD2	2.09	0.52
1:C:631:LEU:HD12	1:C:632:SER:N	2.24	0.52
1:J:278:ILE:CD1	1:J:278:ILE:H	2.21	0.52
1:L:278:ILE:CD1	1:L:278:ILE:H	2.21	0.52
1:I:30:HIS:CE1	1:I:33:PHE:CD1	2.98	0.52
1:B:6:SER:O	1:B:9:VAL:HG12	2.10	0.52
1:D:597:ASN:HD22	1:D:599:ARG:H	1.57	0.52
1:E:987:ASP:OD2	1:E:990:HIS:HD2	1.93	0.52
1:I:987:ASP:OD2	1:I:990:HIS:HD2	1.93	0.52
1:N:473:ARG:HD3	1:N:473:ARG:C	2.29	0.52
1:P:403:ASP:OD2	1:P:450:HIS:ND1	2.34	0.52
1:F:835:LEU:O	1:F:836:ILE:HD13	2.09	0.52
1:I:68:ALA:O	1:I:70:PRO:HD3	2.10	0.52
1:G:68:ALA:O	1:G:70:PRO:HD3	2.10	0.52
1:C:68:ALA:O	1:C:70:PRO:HD3	2.10	0.52
1:B:141:ILE:HG12	1:B:142:ILE:N	2.24	0.52
1:G:869:ASP:OD2	1:G:1015:HIS:ND1	2.33	0.52
1:N:610:ASP:O	1:N:611:ARG:HB2	2.10	0.52
1:B:610:ASP:O	1:B:611:ARG:HB2	2.10	0.52
1:E:869:ASP:OD2	1:E:1015:HIS:ND1	2.33	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:610:ASP:O	1:C:611:ARG:HB2	2.10	0.52
1:D:808:GLU:OE1	1:D:808:GLU:HA	2.08	0.52
1:D:819:GLU:HA	1:D:819:GLU:OE2	2.09	0.52
1:K:819:GLU:HA	1:K:819:GLU:OE2	2.09	0.52
1:E:867:THR:O	1:E:867:THR:HG22	2.09	0.52
1:F:211:ASP:OD1	1:F:211:ASP:N	2.42	0.52
1:F:867:THR:HG22	1:F:867:THR:O	2.09	0.52
1:B:433:LEU:N	1:B:434:PRO:CD	2.73	0.52
1:G:740:LEU:CD1	1:G:741:THR:H	2.12	0.52
1:D:6:SER:O	1:D:9:VAL:HG12	2.10	0.52
1:J:781:ARG:HH11	1:J:781:ARG:CG	2.19	0.52
1:N:781:ARG:HG3	1:N:781:ARG:NH1	2.17	0.52
1:F:920:LEU:HB3	1:F:921:PRO:CD	2.38	0.52
1:C:920:LEU:HB3	1:C:921:PRO:CD	2.38	0.52
1:F:66:PRO:HB3	1:F:187:MET:HE1	1.92	0.52
1:E:653[A]:HIS:HD2	1:E:666:GLY:O	1.93	0.52
1:P:500:CYS:HA	1:P:534:ILE:O	2.10	0.52
1:N:53:SER:O	1:N:54:LEU:HD23	2.10	0.52
1:F:37:ARG:HH11	1:F:37:ARG:CG	2.20	0.52
1:P:631:LEU:HD12	1:P:632:SER:N	2.24	0.52
1:G:278:ILE:H	1:G:278:ILE:CD1	2.21	0.52
1:C:278:ILE:H	1:C:278:ILE:CD1	2.21	0.52
1:E:278:ILE:CD1	1:E:278:ILE:H	2.21	0.52
1:H:246:MET:HE3	1:H:247:CYS:CA	2.40	0.52
1:I:246:MET:HE3	1:I:247:CYS:CA	2.40	0.52
1:G:9:VAL:O	1:G:12:GLN:HB3	2.10	0.52
1:F:237:ARG:HH11	1:F:237:ARG:CG	2.23	0.52
1:B:9:VAL:O	1:B:12:GLN:HB3	2.10	0.52
1:K:597:ASN:HD22	1:K:599:ARG:H	1.57	0.52
1:N:6:SER:O	1:N:9:VAL:HG12	2.10	0.52
1:O:597:ASN:HD22	1:O:599:ARG:H	1.57	0.52
1:H:987:ASP:OD2	1:H:990:HIS:HD2	1.93	0.52
1:D:14:ARG:HG2	1:D:16:TRP:CZ2	2.43	0.52
1:E:69:VAL:HG13	1:E:70:PRO:HD2	1.91	0.52
1:H:512:PHE:HE1	1:H:517:LYS:HG3	1.75	0.52
1:D:141:ILE:HG12	1:D:142:ILE:N	2.24	0.52
1:I:867:THR:O	1:I:867:THR:HG22	2.09	0.52
1:M:870:VAL:HG12	1:M:871:GLU:N	2.25	0.52
1:M:819:GLU:HA	1:M:819:GLU:OE2	2.10	0.52
1:L:832:ASP:OD1	1:L:832:ASP:N	2.43	0.52
1:N:832:ASP:N	1:N:832:ASP:OD1	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:73:TRP:CE2	1:A:122:CYS:HB3	2.44	0.52
1:A:512:PHE:HE1	1:A:517:LYS:HG3	1.75	0.52
1:N:141:ILE:HG12	1:N:142:ILE:N	2.24	0.52
1:A:651:LEU:CD1	1:A:669:PRO:HA	2.39	0.52
1:O:651:LEU:CD1	1:O:669:PRO:HA	2.39	0.52
1:A:66:PRO:HB3	1:A:187:MET:HE1	1.92	0.52
1:E:634:GLN:HE22	1:E:685:LEU:H	1.57	0.52
1:I:53:SER:O	1:I:54:LEU:HD23	2.10	0.52
1:L:53:SER:O	1:L:54:LEU:HD23	2.10	0.52
1:C:653[A]:HIS:HD2	1:C:666:GLY:O	1.93	0.52
1:B:500:CYS:HA	1:B:534:ILE:O	2.10	0.52
1:D:595:THR:HG23	1:D:596:PRO:CA	2.38	0.52
1:A:433:LEU:N	1:A:434:PRO:CD	2.73	0.52
1:B:287:ASP:OD1	1:B:287:ASP:N	2.29	0.52
1:F:708:TRP:CE3	1:F:709:SER:HB3	2.45	0.52
1:D:246:MET:HE3	1:D:247:CYS:C	2.30	0.52
1:O:9:VAL:O	1:O:12:GLN:HB3	2.10	0.52
1:H:30:HIS:CE1	1:H:33:PHE:CD1	2.98	0.52
1:H:236:SER:OG	1:H:237:ARG:HD3	2.09	0.52
1:L:246:MET:HE3	1:L:247:CYS:CA	2.40	0.52
1:M:473:ARG:C	1:M:473:ARG:HD3	2.29	0.52
1:H:473:ARG:C	1:H:473:ARG:HD3	2.29	0.52
1:O:835:LEU:O	1:O:836:ILE:HD13	2.09	0.52
1:H:835:LEU:O	1:H:836:ILE:HD13	2.09	0.52
1:E:287:ASP:N	1:E:287:ASP:OD1	2.29	0.52
1:F:68:ALA:O	1:F:70:PRO:HD3	2.10	0.52
1:A:68:ALA:O	1:A:70:PRO:HD3	2.10	0.52
1:P:512:PHE:HE1	1:P:517:LYS:HG3	1.75	0.52
1:E:870:VAL:HG12	1:E:871:GLU:N	2.25	0.52
1:C:211:ASP:OD1	1:C:211:ASP:N	2.42	0.52
1:E:832:ASP:N	1:E:832:ASP:OD1	2.43	0.52
1:F:832:ASP:OD1	1:F:832:ASP:N	2.43	0.52
1:K:867:THR:O	1:K:867:THR:HG22	2.09	0.52
1:E:211:ASP:OD1	1:E:211:ASP:N	2.42	0.52
1:G:832:ASP:N	1:G:832:ASP:OD1	2.43	0.52
1:O:819:GLU:OE2	1:O:819:GLU:HA	2.09	0.52
1:K:141:ILE:HG12	1:K:142:ILE:N	2.24	0.52
1:A:141:ILE:HG12	1:A:142:ILE:N	2.24	0.52
1:K:668:VAL:CG1	1:K:669:PRO:HD2	2.31	0.51
1:N:781:ARG:HH11	1:N:781:ARG:CG	2.19	0.51
1:A:920:LEU:HB3	1:A:921:PRO:CD	2.38	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:65:ALA:HB1	1:N:66:PRO:CD	2.39	0.51
1:N:634:GLN:HE22	1:N:685:LEU:H	1.57	0.51
1:A:500:CYS:HA	1:A:534:ILE:O	2.10	0.51
1:D:634:GLN:HE22	1:D:685:LEU:H	1.57	0.51
1:J:500:CYS:HA	1:J:534:ILE:O	2.11	0.51
1:I:500:CYS:HA	1:I:534:ILE:O	2.11	0.51
1:I:9:VAL:O	1:I:12:GLN:HB3	2.10	0.51
1:K:708:TRP:CE3	1:K:709:SER:HB3	2.45	0.51
1:N:708:TRP:CE3	1:N:709:SER:HB3	2.45	0.51
1:J:30:HIS:CE1	1:J:33:PHE:CD1	2.98	0.51
1:B:246:MET:HE3	1:B:247:CYS:C	2.31	0.51
1:C:237:ARG:CG	1:C:237:ARG:HH11	2.23	0.51
1:J:237:ARG:CG	1:J:237:ARG:HH11	2.23	0.51
1:N:237:ARG:CG	1:N:237:ARG:HH11	2.23	0.51
1:P:30:HIS:CE1	1:P:33:PHE:CD1	2.98	0.51
1:L:237:ARG:HH11	1:L:237:ARG:CG	2.24	0.51
1:D:237:ARG:HH11	1:D:237:ARG:CG	2.23	0.51
1:F:30:HIS:CE1	1:F:33:PHE:CD1	2.98	0.51
1:G:30:HIS:CE1	1:G:33:PHE:CD1	2.98	0.51
1:C:708:TRP:CE3	1:C:709:SER:HB3	2.45	0.51
1:A:30:HIS:CE1	1:A:33:PHE:CD1	2.98	0.51
1:G:568:TRP:HE1	1:G:604:ASN:ND2	2.08	0.51
1:D:987:ASP:OD2	1:D:990:HIS:HD2	1.93	0.51
1:P:473:ARG:C	1:P:473:ARG:HD3	2.29	0.51
1:K:835:LEU:O	1:K:836:ILE:HD13	2.09	0.51
1:I:835:LEU:O	1:I:836:ILE:HD13	2.09	0.51
1:P:870:VAL:HG12	1:P:871:GLU:N	2.25	0.51
1:K:870:VAL:HG12	1:K:871:GLU:N	2.25	0.51
1:K:512:PHE:HE1	1:K:517:LYS:HG3	1.75	0.51
1:E:819:GLU:HA	1:E:819:GLU:OE2	2.10	0.51
1:F:819:GLU:OE2	1:F:819:GLU:HA	2.09	0.51
1:G:176:PHE:CD1	1:G:176:PHE:N	2.78	0.51
1:N:176:PHE:CD1	1:N:176:PHE:N	2.78	0.51
1:C:819:GLU:HA	1:C:819:GLU:OE2	2.09	0.51
1:B:832:ASP:N	1:B:832:ASP:OD1	2.43	0.51
1:F:512:PHE:HE1	1:F:517:LYS:HG3	1.75	0.51
1:C:651:LEU:CD1	1:C:669:PRO:HA	2.39	0.51
1:A:579:ASP:N	1:A:583:ASN:O	2.40	0.51
1:K:781:ARG:CG	1:K:781:ARG:HH11	2.19	0.51
1:N:920:LEU:HB3	1:N:921:PRO:CD	2.38	0.51
1:F:634:GLN:HE22	1:F:685:LEU:H	1.57	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:634:GLN:HE22	1:J:685:LEU:H	1.57	0.51
1:N:500:CYS:HA	1:N:534:ILE:O	2.11	0.51
1:N:433:LEU:N	1:N:434:PRO:CD	2.73	0.51
1:J:649:ASN:OD1	1:J:703:PRO:HD2	2.09	0.51
1:B:278:ILE:CD1	1:B:278:ILE:H	2.21	0.51
1:J:9:VAL:O	1:J:12:GLN:HB3	2.10	0.51
1:N:30:HIS:CE1	1:N:33:PHE:CD1	2.98	0.51
1:O:30:HIS:CE1	1:O:33:PHE:CD1	2.98	0.51
1:H:597:ASN:HD22	1:H:599:ARG:H	1.57	0.51
1:O:568:TRP:HE1	1:O:604:ASN:ND2	2.09	0.51
1:K:568:TRP:HE1	1:K:604:ASN:ND2	2.08	0.51
1:I:287:ASP:CG	1:L:425:ARG:HH22	2.13	0.51
1:H:68:ALA:O	1:H:70:PRO:HD3	2.10	0.51
1:D:73:TRP:CE2	1:D:122:CYS:HB3	2.44	0.51
1:O:73:TRP:CE2	1:O:122:CYS:HB3	2.44	0.51
1:D:512:PHE:HE1	1:D:517:LYS:HG3	1.75	0.51
1:O:832:ASP:OD1	1:O:832:ASP:N	2.43	0.51
1:H:867:THR:O	1:H:867:THR:HG22	2.09	0.51
1:M:176:PHE:CD1	1:M:176:PHE:N	2.78	0.51
1:J:867:THR:O	1:J:867:THR:HG22	2.09	0.51
1:C:176:PHE:N	1:C:176:PHE:CD1	2.79	0.51
1:G:610:ASP:O	1:G:611:ARG:HB2	2.10	0.51
1:G:433:LEU:N	1:G:434:PRO:CD	2.73	0.51
1:M:920:LEU:HB3	1:M:921:PRO:CD	2.38	0.51
1:B:653[A]:HIS:HD2	1:B:666:GLY:O	1.93	0.51
1:M:500:CYS:HA	1:M:534:ILE:O	2.10	0.51
1:L:500:CYS:HA	1:L:534:ILE:O	2.10	0.51
1:P:53:SER:O	1:P:54:LEU:HD23	2.10	0.51
1:O:433:LEU:N	1:O:434:PRO:CD	2.73	0.51
1:B:663:LEU:N	1:B:663:LEU:HD23	2.24	0.51
1:I:663:LEU:HD23	1:I:663:LEU:N	2.24	0.51
1:A:434:PRO:HA	1:A:437:SER:OG	2.11	0.51
1:K:236:SER:OG	1:K:237:ARG:HD3	2.09	0.51
1:A:237:ARG:HH11	1:A:237:ARG:CG	2.23	0.51
1:H:6:SER:O	1:H:9:VAL:HG12	2.10	0.51
1:A:9:VAL:O	1:A:12:GLN:HB3	2.10	0.51
1:J:597:ASN:HD22	1:J:599:ARG:H	1.57	0.51
1:D:568:TRP:HE1	1:D:604:ASN:ND2	2.08	0.51
1:G:987:ASP:OD2	1:G:990:HIS:HD2	1.92	0.51
1:O:987:ASP:OD2	1:O:990:HIS:HD2	1.93	0.51
1:O:473:ARG:HD3	1:O:473:ARG:C	2.29	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:69:VAL:HG13	1:C:70:PRO:HD2	1.91	0.51
1:M:69:VAL:HG13	1:M:70:PRO:HD2	1.91	0.51
1:N:512:PHE:HE1	1:N:517:LYS:HG3	1.75	0.51
1:E:610:ASP:O	1:E:611:ARG:HB2	2.10	0.51
1:E:176:PHE:CD1	1:E:176:PHE:N	2.79	0.51
1:O:867:THR:HG22	1:O:867:THR:O	2.09	0.51
1:C:867:THR:O	1:C:867:THR:HG22	2.09	0.51
1:A:176:PHE:CD1	1:A:176:PHE:N	2.79	0.51
1:A:819:GLU:OE2	1:A:819:GLU:HA	2.09	0.51
1:H:870:VAL:HG12	1:H:871:GLU:N	2.26	0.51
1:F:433:LEU:N	1:F:434:PRO:CD	2.73	0.51
1:D:9:VAL:O	1:D:12:GLN:HB3	2.10	0.51
1:E:433:LEU:N	1:E:434:PRO:CD	2.73	0.51
1:O:781:ARG:HG3	1:O:781:ARG:NH1	2.17	0.51
1:M:822:LEU:HD11	1:M:824:GLN:O	2.11	0.51
1:B:634:GLN:HE22	1:B:685:LEU:H	1.57	0.51
1:A:822:LEU:HD11	1:A:824:GLN:O	2.11	0.51
1:H:500:CYS:HA	1:H:534:ILE:O	2.11	0.51
1:J:53:SER:O	1:J:54:LEU:HD23	2.10	0.51
1:O:53:SER:O	1:O:54:LEU:HD23	2.10	0.51
1:D:663:LEU:N	1:D:663:LEU:HD23	2.24	0.51
1:C:6:SER:O	1:C:9:VAL:HG12	2.10	0.51
1:H:246:MET:HE3	1:H:247:CYS:C	2.30	0.51
1:E:237:ARG:HH11	1:E:237:ARG:CG	2.23	0.51
1:D:30:HIS:CE1	1:D:33:PHE:CD1	2.98	0.51
1:P:6:SER:O	1:P:9:VAL:HG12	2.10	0.51
1:O:237:ARG:HH11	1:O:237:ARG:CG	2.23	0.51
1:H:9:VAL:O	1:H:12:GLN:HB3	2.10	0.51
1:B:568:TRP:HE1	1:B:604:ASN:ND2	2.08	0.51
1:K:68:ALA:O	1:K:70:PRO:HD3	2.10	0.51
1:I:512:PHE:HE1	1:I:517:LYS:HG3	1.75	0.51
1:J:176:PHE:CD1	1:J:176:PHE:N	2.79	0.51
1:I:832:ASP:N	1:I:832:ASP:OD1	2.43	0.51
1:L:211:ASP:N	1:L:211:ASP:OD1	2.42	0.51
1:L:92:MET:HE3	1:L:362:LEU:O	2.10	0.51
1:E:579:ASP:N	1:E:583:ASN:O	2.40	0.51
1:H:434:PRO:HA	1:H:437:SER:OG	2.11	0.51
1:I:781:ARG:HH11	1:I:781:ARG:CG	2.19	0.51
1:K:822:LEU:HD11	1:K:824:GLN:O	2.11	0.51
1:O:822:LEU:HD11	1:O:824:GLN:O	2.11	0.51
1:O:653[A]:HIS:HD2	1:O:666:GLY:O	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:500:CYS:HA	1:C:534:ILE:O	2.10	0.51
1:L:653[A]:HIS:HD2	1:L:666:GLY:O	1.93	0.51
1:G:53:SER:O	1:G:54:LEU:HD23	2.10	0.51
1:I:419:GLY:HA2	1:L:282:ARG:NH1	2.25	0.51
1:O:708:TRP:CE3	1:O:709:SER:HB3	2.45	0.51
1:G:708:TRP:CE3	1:G:709:SER:HB3	2.45	0.51
1:D:433:LEU:N	1:D:434:PRO:CD	2.73	0.51
1:C:30:HIS:CE1	1:C:33:PHE:CD1	2.98	0.51
1:E:708:TRP:CE3	1:E:709:SER:HB3	2.45	0.51
1:I:708:TRP:CE3	1:I:709:SER:HB3	2.45	0.51
1:D:246:MET:HE3	1:D:247:CYS:CA	2.40	0.51
1:B:30:HIS:CE1	1:B:33:PHE:CD1	2.98	0.51
1:F:568:TRP:HE1	1:F:604:ASN:ND2	2.08	0.51
1:L:568:TRP:HE1	1:L:604:ASN:ND2	2.08	0.51
1:J:987:ASP:OD2	1:J:990:HIS:HD2	1.92	0.51
1:G:473:ARG:HD3	1:G:473:ARG:C	2.29	0.51
1:B:68:ALA:O	1:B:70:PRO:HD3	2.10	0.51
1:B:867:THR:HG22	1:B:867:THR:O	2.09	0.51
1:L:512:PHE:HE1	1:L:517:LYS:HG3	1.75	0.51
1:L:867:THR:O	1:L:867:THR:HG22	2.09	0.51
1:C:869:ASP:OD2	1:C:1015:HIS:ND1	2.33	0.51
1:C:433:LEU:N	1:C:434:PRO:CD	2.73	0.51
1:J:579:ASP:OD2	1:J:583:ASN:HB2	2.11	0.51
1:N:579:ASP:OD2	1:N:583:ASN:HB2	2.11	0.51
1:L:822:LEU:HD11	1:L:824:GLN:O	2.11	0.51
1:L:634:GLN:HE22	1:L:685:LEU:H	1.57	0.51
1:G:500:CYS:HA	1:G:534:ILE:O	2.10	0.51
1:O:500:CYS:HA	1:O:534:ILE:O	2.10	0.51
1:F:663:LEU:HD23	1:F:663:LEU:N	2.24	0.51
1:E:30:HIS:CE1	1:E:33:PHE:CD1	2.98	0.51
1:C:246:MET:HE3	1:C:247:CYS:CA	2.40	0.51
1:L:708:TRP:CE3	1:L:709:SER:HB3	2.45	0.51
1:D:579:ASP:N	1:D:583:ASN:O	2.40	0.51
1:P:597:ASN:HD22	1:P:599:ARG:H	1.57	0.51
1:M:127:PHE:N	1:M:127:PHE:CD2	2.79	0.51
1:J:568:TRP:HE1	1:J:604:ASN:ND2	2.08	0.51
1:C:987:ASP:OD2	1:C:990:HIS:HD2	1.92	0.51
1:F:473:ARG:HD3	1:F:473:ARG:C	2.29	0.51
1:B:69:VAL:HG13	1:B:70:PRO:HD2	1.91	0.51
1:O:512:PHE:HE1	1:O:517:LYS:HG3	1.75	0.51
1:J:870:VAL:HG12	1:J:871:GLU:N	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:867:THR:O	1:G:867:THR:HG22	2.09	0.51
1:P:211:ASP:OD1	1:P:211:ASP:N	2.42	0.51
1:B:176:PHE:N	1:B:176:PHE:CD1	2.78	0.51
1:A:287:ASP:OD1	1:A:287:ASP:N	2.29	0.51
1:H:819:GLU:HA	1:H:819:GLU:OE2	2.09	0.51
1:M:211:ASP:N	1:M:211:ASP:OD1	2.42	0.51
1:K:610:ASP:O	1:K:611:ARG:HB2	2.10	0.51
1:F:434:PRO:HA	1:F:437:SER:OG	2.11	0.51
1:H:822:LEU:HD11	1:H:824:GLN:O	2.11	0.51
1:E:822:LEU:HD11	1:E:824:GLN:O	2.11	0.51
1:G:653[A]:HIS:HD2	1:G:666:GLY:O	1.93	0.51
1:P:433:LEU:N	1:P:434:PRO:CD	2.73	0.51
1:H:53:SER:O	1:H:54:LEU:HD23	2.10	0.51
1:A:53:SER:O	1:A:54:LEU:HD23	2.10	0.51
1:F:500:CYS:HA	1:F:534:ILE:O	2.10	0.51
1:E:595:THR:HG23	1:E:596:PRO:CA	2.37	0.51
1:O:434:PRO:HA	1:O:437:SER:OG	2.11	0.51
1:N:663:LEU:HD23	1:N:663:LEU:N	2.24	0.51
1:G:663:LEU:HD23	1:G:663:LEU:N	2.24	0.51
1:P:663:LEU:N	1:P:663:LEU:HD23	2.24	0.51
1:H:278:ILE:H	1:H:278:ILE:CD1	2.21	0.51
1:M:708:TRP:CE3	1:M:709:SER:HB3	2.45	0.51
1:K:246:MET:HE3	1:K:247:CYS:CA	2.41	0.51
1:B:237:ARG:HH11	1:B:237:ARG:CG	2.24	0.51
1:J:127:PHE:CD2	1:J:127:PHE:N	2.79	0.51
1:M:568:TRP:HE1	1:M:604:ASN:ND2	2.09	0.51
1:N:68:ALA:O	1:N:70:PRO:HD3	2.10	0.51
1:A:69:VAL:HG13	1:A:70:PRO:HD2	1.91	0.51
1:A:869:ASP:OD2	1:A:1015:HIS:ND1	2.33	0.51
1:J:610:ASP:O	1:J:611:ARG:HB2	2.10	0.51
1:F:870:VAL:HG12	1:F:871:GLU:N	2.25	0.51
1:E:512:PHE:HE1	1:E:517:LYS:HG3	1.75	0.51
1:K:176:PHE:N	1:K:176:PHE:CD1	2.78	0.51
1:I:176:PHE:N	1:I:176:PHE:CD1	2.79	0.51
1:H:832:ASP:OD1	1:H:832:ASP:N	2.43	0.51
1:A:870:VAL:HG12	1:A:871:GLU:N	2.25	0.51
1:K:436:MET:HE1	1:K:467:ASN:HD22	1.74	0.51
1:F:579:ASP:OD2	1:F:583:ASN:HB2	2.11	0.51
1:A:781:ARG:CG	1:A:781:ARG:HH11	2.19	0.51
1:E:920:LEU:HB3	1:E:921:PRO:CD	2.38	0.51
1:H:66:PRO:HB3	1:H:187:MET:HE1	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:53:SER:O	1:K:54:LEU:HD23	2.10	0.51
1:N:282:ARG:HH11	1:O:419:GLY:CA	2.23	0.51
1:K:278:ILE:H	1:K:278:ILE:CD1	2.21	0.51
1:E:833:ALA:HB1	1:E:858:ILE:O	2.11	0.51
1:L:579:ASP:OD2	1:L:583:ASN:HB2	2.11	0.51
1:P:246:MET:HE3	1:P:247:CYS:CA	2.41	0.51
1:M:6:SER:O	1:M:9:VAL:HG12	2.10	0.51
1:M:9:VAL:O	1:M:12:GLN:HB3	2.10	0.51
1:M:237:ARG:CG	1:M:237:ARG:HH11	2.23	0.51
1:G:237:ARG:CG	1:G:237:ARG:HH11	2.23	0.51
1:C:597:ASN:HD22	1:C:599:ARG:H	1.57	0.51
1:F:9:VAL:O	1:F:12:GLN:HB3	2.10	0.51
1:D:832:ASP:N	1:D:832:ASP:OD1	2.43	0.51
1:L:176:PHE:N	1:L:176:PHE:CD1	2.79	0.51
1:F:610:ASP:O	1:F:611:ARG:HB2	2.10	0.51
1:N:870:VAL:HG12	1:N:871:GLU:N	2.25	0.51
1:M:512:PHE:HE1	1:M:517:LYS:HG3	1.75	0.51
1:G:512:PHE:HE1	1:G:517:LYS:HG3	1.75	0.51
1:P:436:MET:HE3	1:P:467:ASN:ND2	2.15	0.51
1:P:579:ASP:OD2	1:P:583:ASN:HB2	2.11	0.51
1:F:653[A]:HIS:HD2	1:F:666:GLY:O	1.93	0.51
1:M:433:LEU:N	1:M:434:PRO:CD	2.73	0.51
1:I:822:LEU:HD11	1:I:824:GLN:O	2.11	0.51
1:N:434:PRO:HA	1:N:437:SER:OG	2.11	0.51
1:M:30:HIS:CE1	1:M:33:PHE:CD1	2.98	0.51
1:J:708:TRP:CE3	1:J:709:SER:HB3	2.45	0.51
1:O:6:SER:O	1:O:9:VAL:HG12	2.10	0.51
1:H:579:ASP:N	1:H:583:ASN:O	2.40	0.51
1:E:178:ARG:HH11	1:E:178:ARG:HB2	1.76	0.51
1:L:473:ARG:HD3	1:L:473:ARG:C	2.29	0.51
1:A:473:ARG:C	1:A:473:ARG:HD3	2.29	0.51
1:P:961:ARG:NH2	1:P:979:GLU:O	2.37	0.51
1:I:833:ALA:HB1	1:I:858:ILE:O	2.11	0.51
1:G:592:PHE:N	1:G:592:PHE:CD1	2.79	0.51
1:P:832:ASP:OD1	1:P:832:ASP:N	2.43	0.51
1:B:592:PHE:CD1	1:B:592:PHE:N	2.79	0.51
1:O:176:PHE:CD1	1:O:176:PHE:N	2.78	0.51
1:G:433:LEU:N	1:G:434:PRO:HD2	2.26	0.51
1:E:579:ASP:OD2	1:E:583:ASN:HB2	2.11	0.51
1:N:579:ASP:N	1:N:583:ASN:O	2.40	0.51
1:H:433:LEU:N	1:H:434:PRO:CD	2.73	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:822:LEU:HD11	1:J:824:GLN:O	2.11	0.51
1:P:822:LEU:HD11	1:P:824:GLN:O	2.11	0.51
1:M:833:ALA:HB1	1:M:858:ILE:O	2.11	0.51
1:B:708:TRP:CE3	1:B:709:SER:HB3	2.45	0.51
1:F:246:MET:HE3	1:F:247:CYS:CA	2.41	0.51
1:L:9:VAL:O	1:L:12:GLN:HB3	2.10	0.51
1:D:708:TRP:CE3	1:D:709:SER:HB3	2.46	0.51
1:C:579:ASP:OD2	1:C:583:ASN:HB2	2.11	0.51
1:F:127:PHE:CD2	1:F:127:PHE:N	2.79	0.51
1:E:568:TRP:HE1	1:E:604:ASN:ND2	2.09	0.51
1:K:178:ARG:HH11	1:K:178:ARG:HB2	1.76	0.51
1:L:581:ASN:OD1	1:L:581:ASN:N	2.44	0.51
1:P:131:GLU:HG3	1:P:132:SER:N	2.26	0.51
1:K:73:TRP:CZ2	1:K:185:ALA:HB1	2.46	0.51
1:I:130:ASP:OD1	1:I:132:SER:N	2.30	0.51
1:D:68:ALA:O	1:D:70:PRO:HD3	2.10	0.51
1:L:833:ALA:HB1	1:L:858:ILE:O	2.11	0.51
1:D:176:PHE:CD1	1:D:176:PHE:N	2.79	0.51
1:B:434:PRO:HA	1:B:437:SER:OG	2.11	0.50
1:C:434:PRO:HA	1:C:437:SER:OG	2.11	0.50
1:G:434:PRO:HA	1:G:437:SER:OG	2.11	0.50
1:B:781:ARG:HG3	1:B:781:ARG:NH1	2.17	0.50
1:F:53:SER:O	1:F:54:LEU:HD23	2.10	0.50
1:I:595:THR:HG23	1:I:596:PRO:CA	2.37	0.50
1:B:49:GLN:H	1:B:49:GLN:HE21	1.59	0.50
1:K:579:ASP:OD2	1:K:583:ASN:HB2	2.11	0.50
1:P:708:TRP:CE3	1:P:709:SER:HB3	2.45	0.50
1:J:246:MET:HE3	1:J:247:CYS:CA	2.40	0.50
1:H:237:ARG:HB3	1:H:237:ARG:HH11	1.77	0.50
1:N:127:PHE:CD2	1:N:127:PHE:N	2.79	0.50
1:H:178:ARG:HB2	1:H:178:ARG:HH11	1.76	0.50
1:M:178:ARG:HB2	1:M:178:ARG:HH11	1.77	0.50
1:J:178:ARG:HH11	1:J:178:ARG:HB2	1.76	0.50
1:E:131:GLU:HG3	1:E:132:SER:N	2.26	0.50
1:J:69:VAL:HG13	1:J:70:PRO:HD2	1.91	0.50
1:F:73:TRP:CZ2	1:F:185:ALA:HB1	2.47	0.50
1:N:73:TRP:CZ2	1:N:185:ALA:HB1	2.47	0.50
1:C:512:PHE:HE1	1:C:517:LYS:HG3	1.75	0.50
1:D:610:ASP:O	1:D:611:ARG:HB2	2.10	0.50
1:A:833:ALA:HB1	1:A:858:ILE:O	2.11	0.50
1:H:211:ASP:N	1:H:211:ASP:OD1	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:869:ASP:OD2	1:B:1015:HIS:ND1	2.33	0.50
1:M:436:MET:HE1	1:M:467:ASN:HD22	1.76	0.50
1:I:92:MET:HE3	1:I:362:LEU:O	2.11	0.50
1:E:434:PRO:HA	1:E:437:SER:OG	2.11	0.50
1:F:65:ALA:HB1	1:F:66:PRO:CD	2.39	0.50
1:E:500:CYS:HA	1:E:534:ILE:O	2.11	0.50
1:G:23:GLN:HB3	1:G:26:ARG:NH2	2.27	0.50
1:L:433:LEU:N	1:L:434:PRO:HD2	2.26	0.50
1:C:49:GLN:HE21	1:C:49:GLN:H	1.59	0.50
1:D:833:ALA:HB1	1:D:858:ILE:O	2.11	0.50
1:O:49:GLN:HE21	1:O:49:GLN:H	1.59	0.50
1:H:708:TRP:CE3	1:H:709:SER:HB3	2.45	0.50
1:A:433:LEU:N	1:A:434:PRO:HD2	2.26	0.50
1:L:30:HIS:CE1	1:L:33:PHE:CD1	2.98	0.50
1:H:579:ASP:OD2	1:H:583:ASN:HB2	2.11	0.50
1:E:597:ASN:HD22	1:E:599:ARG:H	1.57	0.50
1:M:579:ASP:OD2	1:M:583:ASN:HB2	2.11	0.50
1:I:127:PHE:CD2	1:I:127:PHE:N	2.79	0.50
1:O:178:ARG:HB2	1:O:178:ARG:HH11	1.76	0.50
1:F:581:ASN:OD1	1:F:581:ASN:N	2.44	0.50
1:I:73:TRP:CZ2	1:I:185:ALA:HB1	2.47	0.50
1:L:73:TRP:CZ2	1:L:185:ALA:HB1	2.47	0.50
1:A:610:ASP:O	1:A:611:ARG:HB2	2.10	0.50
1:O:610:ASP:O	1:O:611:ARG:HB2	2.10	0.50
1:L:870:VAL:HG12	1:L:871:GLU:N	2.25	0.50
1:P:867:THR:O	1:P:867:THR:HG22	2.09	0.50
1:P:592:PHE:N	1:P:592:PHE:CD1	2.79	0.50
1:N:869:ASP:OD2	1:N:1015:HIS:ND1	2.33	0.50
1:B:433:LEU:N	1:B:434:PRO:HD2	2.26	0.50
1:H:433:LEU:N	1:H:434:PRO:HD2	2.26	0.50
1:K:65:ALA:HB1	1:K:66:PRO:CD	2.38	0.50
1:C:822:LEU:HD11	1:C:824:GLN:O	2.11	0.50
1:P:433:LEU:N	1:P:434:PRO:HD2	2.26	0.50
1:P:434:PRO:HA	1:P:437:SER:OG	2.11	0.50
1:M:53:SER:O	1:M:54:LEU:HD23	2.10	0.50
1:K:36:TRP:CD2	1:K:42:ALA:HA	2.47	0.50
1:I:433:LEU:N	1:I:434:PRO:HD2	2.26	0.50
1:M:36:TRP:CD2	1:M:42:ALA:HA	2.47	0.50
1:I:660:GLY:O	1:I:662:PRO:HD3	2.12	0.50
1:K:49:GLN:HE21	1:K:49:GLN:H	1.59	0.50
1:A:237:ARG:HH11	1:A:237:ARG:HB3	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:568:TRP:HE1	1:H:604:ASN:ND2	2.08	0.50
1:I:568:TRP:HE1	1:I:604:ASN:ND2	2.09	0.50
1:J:581:ASN:N	1:J:581:ASN:OD1	2.44	0.50
1:B:403:ASP:OD2	1:B:450:HIS:ND1	2.34	0.50
1:B:512:PHE:HE1	1:B:517:LYS:HG3	1.75	0.50
1:A:592:PHE:CD1	1:A:592:PHE:N	2.79	0.50
1:H:176:PHE:N	1:H:176:PHE:CD1	2.79	0.50
1:P:570:TRP:CD1	1:P:571:VAL:HG22	2.47	0.50
1:C:433:LEU:N	1:C:434:PRO:HD2	2.26	0.50
1:I:579:ASP:OD2	1:I:583:ASN:HB2	2.11	0.50
1:A:579:ASP:OD2	1:A:583:ASN:HB2	2.11	0.50
1:K:433:LEU:N	1:K:434:PRO:HD2	2.26	0.50
1:O:920:LEU:HB3	1:O:921:PRO:CD	2.38	0.50
1:I:920:LEU:HB3	1:I:921:PRO:CD	2.38	0.50
1:G:822:LEU:HD11	1:G:824:GLN:O	2.11	0.50
1:B:36:TRP:CD2	1:B:42:ALA:HA	2.47	0.50
1:N:36:TRP:CD2	1:N:42:ALA:HA	2.47	0.50
1:I:434:PRO:HA	1:I:437:SER:OG	2.11	0.50
1:O:660:GLY:O	1:O:662:PRO:HD3	2.12	0.50
1:G:660:GLY:O	1:G:662:PRO:HD3	2.12	0.50
1:N:833:ALA:HB1	1:N:858:ILE:O	2.11	0.50
1:G:49:GLN:H	1:G:49:GLN:HE21	1.59	0.50
1:A:49:GLN:H	1:A:49:GLN:HE21	1.59	0.50
1:D:434:PRO:HA	1:D:437:SER:OG	2.11	0.50
1:A:708:TRP:CE3	1:A:709:SER:HB3	2.45	0.50
1:N:246:MET:HE3	1:N:247:CYS:C	2.31	0.50
1:P:237:ARG:CG	1:P:237:ARG:HH11	2.23	0.50
1:B:597:ASN:HD22	1:B:599:ARG:H	1.57	0.50
1:E:127:PHE:CD2	1:E:127:PHE:N	2.79	0.50
1:D:127:PHE:CD2	1:D:127:PHE:N	2.79	0.50
1:K:127:PHE:N	1:K:127:PHE:CD2	2.79	0.50
1:A:178:ARG:HH11	1:A:178:ARG:HB2	1.76	0.50
1:C:131:GLU:HG3	1:C:132:SER:N	2.26	0.50
1:L:131:GLU:HG3	1:L:132:SER:N	2.26	0.50
1:F:403:ASP:OD2	1:F:450:HIS:ND1	2.34	0.50
1:I:403:ASP:OD2	1:I:450:HIS:ND1	2.34	0.50
1:K:131:GLU:HG3	1:K:132:SER:N	2.26	0.50
1:N:131:GLU:HG3	1:N:132:SER:N	2.26	0.50
1:J:73:TRP:CZ2	1:J:185:ALA:HB1	2.46	0.50
1:K:833:ALA:HB1	1:K:858:ILE:O	2.11	0.50
1:P:869:ASP:OD2	1:P:1015:HIS:ND1	2.33	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:570:TRP:CD1	1:E:571:VAL:HG22	2.47	0.50
1:B:211:ASP:OD1	1:B:211:ASP:N	2.42	0.50
1:G:870:VAL:HG12	1:G:871:GLU:N	2.25	0.50
1:O:833:ALA:HB1	1:O:858:ILE:O	2.11	0.50
1:B:870:VAL:HG12	1:B:871:GLU:N	2.25	0.50
1:O:579:ASP:OD2	1:O:583:ASN:HB2	2.11	0.50
1:J:433:LEU:N	1:J:434:PRO:HD2	2.26	0.50
1:F:833:ALA:HB1	1:F:858:ILE:O	2.11	0.50
1:F:822:LEU:HD11	1:F:824:GLN:O	2.11	0.50
1:M:433:LEU:N	1:M:434:PRO:HD2	2.26	0.50
1:E:53:SER:O	1:E:54:LEU:HD23	2.10	0.50
1:K:500:CYS:HA	1:K:534:ILE:O	2.11	0.50
1:C:36:TRP:CD2	1:C:42:ALA:HA	2.47	0.50
1:J:36:TRP:CD2	1:J:42:ALA:HA	2.47	0.50
1:L:23:GLN:HB3	1:L:26:ARG:NH2	2.27	0.50
1:F:36:TRP:CD2	1:F:42:ALA:HA	2.47	0.50
1:L:434:PRO:HA	1:L:437:SER:OG	2.11	0.50
1:O:23:GLN:HB3	1:O:26:ARG:NH2	2.27	0.50
1:B:660:GLY:O	1:B:662:PRO:HD3	2.12	0.50
1:H:660:GLY:O	1:H:662:PRO:HD3	2.12	0.50
1:E:660:GLY:O	1:E:662:PRO:HD3	2.12	0.50
1:K:660:GLY:O	1:K:662:PRO:HD3	2.12	0.50
1:P:660:GLY:O	1:P:662:PRO:HD3	2.12	0.50
1:L:635:THR:HG23	1:L:681:GLU:OE2	2.12	0.50
1:G:635:THR:HG23	1:G:681:GLU:OE2	2.12	0.50
1:I:635:THR:HG23	1:I:681:GLU:OE2	2.12	0.50
1:F:278:ILE:CD1	1:F:278:ILE:H	2.21	0.50
1:D:433:LEU:N	1:D:434:PRO:HD2	2.26	0.50
1:P:568:TRP:HE1	1:P:604:ASN:ND2	2.08	0.50
1:B:127:PHE:N	1:B:127:PHE:CD2	2.79	0.50
1:A:581:ASN:OD1	1:A:581:ASN:N	2.44	0.50
1:A:403:ASP:OD2	1:A:450:HIS:ND1	2.34	0.50
1:D:403:ASP:OD2	1:D:450:HIS:ND1	2.34	0.50
1:L:767:GLN:CG	1:L:768:MET:N	2.75	0.50
1:M:767:GLN:CG	1:M:768:MET:N	2.75	0.50
1:D:178:ARG:HH11	1:D:178:ARG:HB2	1.76	0.50
1:F:131:GLU:HG3	1:F:132:SER:N	2.26	0.50
1:D:73:TRP:CZ2	1:D:185:ALA:HB1	2.47	0.50
1:B:73:TRP:CZ2	1:B:185:ALA:HB1	2.47	0.50
1:O:870:VAL:HG12	1:O:871:GLU:N	2.25	0.50
1:F:570:TRP:CD1	1:F:571:VAL:HG22	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:833:ALA:HB1	1:G:858:ILE:O	2.11	0.50
1:M:570:TRP:CD1	1:M:571:VAL:HG22	2.47	0.50
1:H:559:TYR:HB2	1:H:562:LEU:HD12	1.94	0.50
1:A:211:ASP:N	1:A:211:ASP:OD1	2.42	0.50
1:C:832:ASP:N	1:C:832:ASP:OD1	2.43	0.50
1:H:592:PHE:N	1:H:592:PHE:CD1	2.79	0.50
1:G:420:MET:HE3	1:G:420:MET:HA	1.93	0.50
1:K:592:PHE:CD1	1:K:592:PHE:N	2.79	0.50
1:H:833:ALA:HB1	1:H:858:ILE:O	2.11	0.50
1:N:570:TRP:CD1	1:N:571:VAL:HG22	2.47	0.50
1:H:869:ASP:OD2	1:H:1015:HIS:ND1	2.33	0.50
1:J:434:PRO:HA	1:J:437:SER:OG	2.11	0.50
1:N:66:PRO:HB3	1:N:187:MET:HE1	1.93	0.50
1:O:36:TRP:CD2	1:O:42:ALA:HA	2.47	0.50
1:D:23:GLN:HB3	1:D:26:ARG:NH2	2.27	0.50
1:M:23:GLN:HB3	1:M:26:ARG:NH2	2.27	0.50
1:F:23:GLN:HB3	1:F:26:ARG:NH2	2.27	0.50
1:E:36:TRP:CD2	1:E:42:ALA:HA	2.47	0.50
1:N:660:GLY:O	1:N:662:PRO:HD3	2.12	0.50
1:O:635:THR:HG23	1:O:681:GLU:OE2	2.12	0.50
1:F:31:PRO:CB	1:F:32:PRO:HD2	2.42	0.50
1:H:237:ARG:HH11	1:H:237:ARG:CG	2.23	0.50
1:A:568:TRP:HE1	1:A:604:ASN:ND2	2.08	0.50
1:D:579:ASP:OD2	1:D:583:ASN:HB2	2.11	0.50
1:L:178:ARG:HH11	1:L:178:ARG:HB2	1.76	0.50
1:N:473:ARG:HD2	1:O:469:ASP:HB3	1.94	0.50
1:B:767:GLN:CG	1:B:768:MET:N	2.75	0.50
1:G:73:TRP:CZ2	1:G:185:ALA:HB1	2.47	0.50
1:I:870:VAL:HG12	1:I:871:GLU:N	2.25	0.50
1:M:832:ASP:OD1	1:M:832:ASP:N	2.43	0.50
1:A:832:ASP:OD1	1:A:832:ASP:N	2.43	0.50
1:J:833:ALA:HB1	1:J:858:ILE:O	2.11	0.50
1:D:570:TRP:CD1	1:D:571:VAL:HG22	2.47	0.50
1:A:316:HIS:CA	1:A:323:ILE:HD13	2.32	0.50
1:E:433:LEU:N	1:E:434:PRO:HD2	2.26	0.50
1:G:36:TRP:CD2	1:G:42:ALA:HA	2.47	0.50
1:A:660:GLY:O	1:A:662:PRO:HD3	2.12	0.50
1:E:635:THR:HG23	1:E:681:GLU:OE2	2.12	0.50
1:P:635:THR:HG23	1:P:681:GLU:OE2	2.12	0.50
1:L:31:PRO:CB	1:L:32:PRO:HD2	2.42	0.50
1:O:246:MET:HE3	1:O:247:CYS:CA	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:31:PRO:CB	1:N:32:PRO:HD2	2.42	0.50
1:K:237:ARG:CG	1:K:237:ARG:HH11	2.23	0.50
1:K:237:ARG:HB3	1:K:237:ARG:HH11	1.77	0.50
1:I:31:PRO:CB	1:I:32:PRO:HD2	2.42	0.50
1:L:246:MET:HE3	1:L:247:CYS:C	2.31	0.50
1:A:567:VAL:HG12	1:A:568:TRP:N	2.27	0.50
1:H:567:VAL:HG12	1:H:568:TRP:N	2.27	0.50
1:O:127:PHE:CD2	1:O:127:PHE:N	2.79	0.50
1:O:73:TRP:CZ2	1:O:185:ALA:HB1	2.47	0.50
1:C:73:TRP:CZ2	1:C:185:ALA:HB1	2.47	0.50
1:C:870:VAL:HG12	1:C:871:GLU:N	2.25	0.50
1:M:465:GLY:O	1:M:468:HIS:HB2	2.12	0.50
1:F:869:ASP:OD2	1:F:1015:HIS:ND1	2.33	0.50
1:J:832:ASP:OD1	1:J:832:ASP:N	2.43	0.50
1:F:176:PHE:CD1	1:F:176:PHE:N	2.79	0.50
1:O:592:PHE:CD1	1:O:592:PHE:N	2.79	0.50
1:C:592:PHE:CD1	1:C:592:PHE:N	2.79	0.50
1:P:559:TYR:HB2	1:P:562:LEU:HD12	1.94	0.50
1:B:579:ASP:OD2	1:B:583:ASN:HB2	2.11	0.50
1:K:434:PRO:HA	1:K:437:SER:OG	2.11	0.50
1:K:66:PRO:HB3	1:K:187:MET:HE1	1.93	0.50
1:O:634:GLN:HE22	1:O:685:LEU:H	1.57	0.50
1:N:822:LEU:HD11	1:N:824:GLN:O	2.11	0.50
1:D:500:CYS:HA	1:D:534:ILE:O	2.10	0.50
1:L:36:TRP:CD2	1:L:42:ALA:HA	2.47	0.50
1:E:23:GLN:HB3	1:E:26:ARG:NH2	2.27	0.50
1:N:23:GLN:HB3	1:N:26:ARG:NH2	2.27	0.50
1:O:433:LEU:N	1:O:434:PRO:HD2	2.26	0.50
1:I:23:GLN:HB3	1:I:26:ARG:NH2	2.27	0.50
1:B:635:THR:HG23	1:B:681:GLU:OE2	2.12	0.50
1:C:635:THR:HG23	1:C:681:GLU:OE2	2.12	0.50
1:L:579:ASP:N	1:L:583:ASN:O	2.40	0.50
1:E:31:PRO:CB	1:E:32:PRO:HD2	2.42	0.50
1:C:237:ARG:HB3	1:C:237:ARG:HH11	1.77	0.50
1:N:237:ARG:HH11	1:N:237:ARG:HB3	1.77	0.50
1:I:237:ARG:CG	1:I:237:ARG:HH11	2.23	0.50
1:C:568:TRP:HE1	1:C:604:ASN:ND2	2.08	0.50
1:G:127:PHE:N	1:G:127:PHE:CD2	2.79	0.50
1:D:767:GLN:CG	1:D:768:MET:N	2.75	0.50
1:P:767:GLN:CG	1:P:768:MET:N	2.75	0.50
1:H:767:GLN:CG	1:H:768:MET:N	2.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:610:ASP:O	1:H:611:ARG:HB2	2.10	0.50
1:A:465:GLY:O	1:A:468:HIS:HB2	2.12	0.50
1:B:559:TYR:HB2	1:B:562:LEU:HD12	1.94	0.50
1:F:420:MET:HE3	1:F:420:MET:HA	1.93	0.50
1:N:592:PHE:N	1:N:592:PHE:CD1	2.79	0.50
1:K:832:ASP:N	1:K:832:ASP:OD1	2.43	0.50
1:O:420:MET:HA	1:O:420:MET:HE3	1.93	0.50
1:C:559:TYR:HB2	1:C:562:LEU:HD12	1.94	0.50
1:B:833:ALA:HB1	1:B:858:ILE:O	2.11	0.50
1:J:559:TYR:HB2	1:J:562:LEU:HD12	1.94	0.50
1:K:465:GLY:O	1:K:468:HIS:HB2	2.12	0.50
1:E:465:GLY:O	1:E:468:HIS:HB2	2.12	0.50
1:P:748:CME:SD	1:P:755:ARG:HG2	2.52	0.50
1:C:781:ARG:HG3	1:C:781:ARG:NH1	2.17	0.50
1:H:1020:TRP:CD1	1:H:1021:CME:N	2.80	0.50
1:D:822:LEU:HD11	1:D:824:GLN:O	2.11	0.50
1:G:634:GLN:HE22	1:G:685:LEU:H	1.57	0.50
1:B:23:GLN:HB3	1:B:26:ARG:NH2	2.27	0.50
1:C:660:GLY:O	1:C:662:PRO:HD3	2.12	0.50
1:J:663:LEU:HD23	1:J:663:LEU:N	2.24	0.50
1:H:49:GLN:H	1:H:49:GLN:HE21	1.59	0.50
1:H:635:THR:HG23	1:H:681:GLU:OE2	2.12	0.50
1:K:579:ASP:N	1:K:583:ASN:O	2.40	0.50
1:A:437:SER:HB2	5:A:2256:HOH:O	2.12	0.50
1:D:31:PRO:CB	1:D:32:PRO:HD2	2.42	0.50
1:B:31:PRO:CB	1:B:32:PRO:HD2	2.42	0.50
1:C:178:ARG:HH11	1:C:178:ARG:HB2	1.76	0.50
1:C:581:ASN:N	1:C:581:ASN:OD1	2.44	0.50
1:P:73:TRP:CZ2	1:P:185:ALA:HB1	2.47	0.50
1:B:961:ARG:NH2	1:B:979:GLU:O	2.38	0.50
1:K:570:TRP:CD1	1:K:571:VAL:HG22	2.47	0.50
1:D:870:VAL:HG12	1:D:871:GLU:N	2.25	0.50
1:I:610:ASP:O	1:I:611:ARG:HB2	2.10	0.50
1:N:465:GLY:O	1:N:468:HIS:HB2	2.12	0.50
1:B:465:GLY:O	1:B:468:HIS:HB2	2.12	0.50
1:D:592:PHE:CD1	1:D:592:PHE:N	2.79	0.50
1:G:748:CME:SD	1:G:755:ARG:HG2	2.52	0.49
1:D:748:CME:SD	1:D:755:ARG:HG2	2.52	0.49
1:O:1020:TRP:CD1	1:O:1021:CME:N	2.80	0.49
1:C:53:SER:O	1:C:54:LEU:HD23	2.10	0.49
1:C:833:ALA:HB1	1:C:858:ILE:O	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:23:GLN:HB3	1:H:26:ARG:NH2	2.27	0.49
1:J:660:GLY:O	1:J:662:PRO:HD3	2.12	0.49
1:P:49:GLN:HE21	1:P:49:GLN:H	1.59	0.49
1:M:597:ASN:HD22	1:M:599:ARG:H	1.57	0.49
1:D:567:VAL:HG12	1:D:568:TRP:N	2.27	0.49
1:F:178:ARG:HH11	1:F:178:ARG:HB2	1.76	0.49
1:G:581:ASN:N	1:G:581:ASN:OD1	2.44	0.49
1:O:767:GLN:CG	1:O:768:MET:N	2.75	0.49
1:F:767:GLN:CG	1:F:768:MET:N	2.75	0.49
1:C:767:GLN:CG	1:C:768:MET:N	2.75	0.49
1:P:420:MET:HE3	1:P:420:MET:HA	1.94	0.49
1:B:570:TRP:CD1	1:B:571:VAL:HG22	2.47	0.49
1:O:961:ARG:NH2	1:O:979:GLU:O	2.37	0.49
1:B:420:MET:HA	1:B:420:MET:HE3	1.94	0.49
1:F:592:PHE:CD1	1:F:592:PHE:N	2.79	0.49
1:E:748:CME:SD	1:E:755:ARG:HG2	2.52	0.49
1:A:740:LEU:CD1	1:A:741:THR:H	2.12	0.49
1:G:579:ASP:OD2	1:G:583:ASN:HB2	2.11	0.49
1:F:579:ASP:N	1:F:583:ASN:O	2.40	0.49
1:M:65:ALA:HB1	1:M:66:PRO:CD	2.38	0.49
1:D:53:SER:O	1:D:54:LEU:HD23	2.10	0.49
1:P:23:GLN:HB3	1:P:26:ARG:NH2	2.27	0.49
1:D:36:TRP:CD2	1:D:42:ALA:HA	2.47	0.49
1:F:660:GLY:O	1:F:662:PRO:HD3	2.12	0.49
1:L:660:GLY:O	1:L:662:PRO:HD3	2.12	0.49
1:H:663:LEU:HD23	1:H:663:LEU:N	2.24	0.49
1:B:287:ASP:CG	1:C:425:ARG:HH22	2.16	0.49
1:C:567:VAL:HG12	1:C:568:TRP:N	2.27	0.49
1:M:567:VAL:HG12	1:M:568:TRP:N	2.27	0.49
1:F:287:ASP:OD1	1:F:287:ASP:N	2.29	0.49
1:G:767:GLN:CG	1:G:768:MET:N	2.75	0.49
1:E:767:GLN:CG	1:E:768:MET:N	2.75	0.49
1:M:282:ARG:NH1	1:P:419:GLY:O	2.45	0.49
1:H:73:TRP:CZ2	1:H:185:ALA:HB1	2.47	0.49
1:L:570:TRP:CD1	1:L:571:VAL:HG22	2.47	0.49
1:H:465:GLY:O	1:H:468:HIS:HB2	2.12	0.49
1:H:420:MET:HE3	1:H:420:MET:HA	1.94	0.49
1:H:570:TRP:CD1	1:H:571:VAL:HG22	2.47	0.49
1:F:748:CME:SD	1:F:755:ARG:HG2	2.52	0.49
1:H:748:CME:SD	1:H:755:ARG:HG2	2.52	0.49
1:B:822:LEU:HD11	1:B:824:GLN:O	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:23:GLN:HB3	1:C:26:ARG:NH2	2.27	0.49
1:A:36:TRP:CD2	1:A:42:ALA:HA	2.47	0.49
1:D:49:GLN:HE21	1:D:49:GLN:H	1.59	0.49
1:J:635:THR:HG23	1:J:681:GLU:OE2	2.12	0.49
1:E:246:MET:HE3	1:E:247:CYS:C	2.32	0.49
1:E:237:ARG:HB3	1:E:237:ARG:HH11	1.76	0.49
1:A:246:MET:HE3	1:A:247:CYS:CA	2.42	0.49
1:M:237:ARG:HH11	1:M:237:ARG:HB3	1.77	0.49
1:N:567:VAL:HG12	1:N:568:TRP:N	2.27	0.49
1:I:567:VAL:HG12	1:I:568:TRP:N	2.27	0.49
1:J:567:VAL:HG12	1:J:568:TRP:N	2.27	0.49
1:N:178:ARG:HH11	1:N:178:ARG:HB2	1.76	0.49
1:N:581:ASN:N	1:N:581:ASN:OD1	2.44	0.49
1:A:767:GLN:CG	1:A:768:MET:N	2.75	0.49
1:H:131:GLU:HG3	1:H:132:SER:N	2.26	0.49
1:N:767:GLN:CG	1:N:768:MET:N	2.75	0.49
1:P:833:ALA:HB1	1:P:858:ILE:O	2.11	0.49
1:J:740:LEU:CD1	1:J:741:THR:H	2.12	0.49
1:B:748:CME:SD	1:B:755:ARG:HG2	2.52	0.49
1:F:433:LEU:N	1:F:434:PRO:HD2	2.26	0.49
1:C:894:ARG:NH1	1:C:920:LEU:HA	2.28	0.49
1:O:65:ALA:HB1	1:O:66:PRO:CD	2.38	0.49
1:B:66:PRO:HB3	1:B:187:MET:HE1	1.94	0.49
1:I:36:TRP:CD2	1:I:42:ALA:HA	2.47	0.49
1:J:23:GLN:HB3	1:J:26:ARG:NH2	2.27	0.49
1:J:49:GLN:HE21	1:J:49:GLN:H	1.59	0.49
1:G:246:MET:HE3	1:G:247:CYS:CA	2.43	0.49
1:D:237:ARG:HH11	1:D:237:ARG:HB3	1.77	0.49
1:P:178:ARG:HB2	1:P:178:ARG:HH11	1.76	0.49
1:M:131:GLU:HG3	1:M:132:SER:N	2.26	0.49
1:I:767:GLN:CG	1:I:768:MET:N	2.75	0.49
1:B:131:GLU:HG3	1:B:132:SER:N	2.26	0.49
1:B:608:PHE:O	1:B:611:ARG:N	2.41	0.49
1:A:73:TRP:CZ2	1:A:185:ALA:HB1	2.47	0.49
1:G:559:TYR:HB2	1:G:562:LEU:HD12	1.94	0.49
1:P:610:ASP:O	1:P:611:ARG:HB2	2.10	0.49
1:A:570:TRP:CD1	1:A:571:VAL:HG22	2.47	0.49
1:M:592:PHE:N	1:M:592:PHE:CD1	2.79	0.49
1:J:592:PHE:CD1	1:J:592:PHE:N	2.79	0.49
1:I:570:TRP:CD1	1:I:571:VAL:HG22	2.47	0.49
1:D:465:GLY:O	1:D:468:HIS:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:748:CME:SD	1:C:755:ARG:HG2	2.53	0.49
1:E:1020:TRP:CD1	1:E:1021:CME:N	2.80	0.49
1:J:824:GLN:HG3	1:J:825:CYS:N	2.28	0.49
1:M:434:PRO:HA	1:M:437:SER:OG	2.11	0.49
1:A:23:GLN:HB3	1:A:26:ARG:NH2	2.27	0.49
1:A:635:THR:HG23	1:A:681:GLU:OE2	2.12	0.49
1:N:635:THR:HG23	1:N:681:GLU:OE2	2.12	0.49
1:M:246:MET:HE3	1:M:247:CYS:CA	2.42	0.49
1:F:567:VAL:HG12	1:F:568:TRP:N	2.27	0.49
1:P:127:PHE:CD2	1:P:127:PHE:N	2.79	0.49
1:K:581:ASN:OD1	1:K:581:ASN:N	2.44	0.49
1:I:581:ASN:N	1:I:581:ASN:OD1	2.44	0.49
1:O:131:GLU:HG3	1:O:132:SER:N	2.26	0.49
1:B:581:ASN:N	1:B:581:ASN:OD1	2.44	0.49
1:O:581:ASN:OD1	1:O:581:ASN:N	2.44	0.49
1:J:767:GLN:CG	1:J:768:MET:N	2.75	0.49
1:E:73:TRP:CZ2	1:E:185:ALA:HB1	2.47	0.49
1:I:961:ARG:NH2	1:I:979:GLU:O	2.37	0.49
1:A:559:TYR:HB2	1:A:562:LEU:HD12	1.94	0.49
1:O:559:TYR:HB2	1:O:562:LEU:HD12	1.94	0.49
1:G:570:TRP:CD1	1:G:571:VAL:HG22	2.47	0.49
1:N:559:TYR:HB2	1:N:562:LEU:HD12	1.94	0.49
1:J:211:ASP:OD1	1:J:211:ASP:N	2.42	0.49
1:N:961:ARG:NH2	1:N:979:GLU:O	2.38	0.49
1:B:515:VAL:HG21	1:C:281:GLU:HG3	1.95	0.49
1:M:748:CME:SD	1:M:755:ARG:HG2	2.52	0.49
1:L:317:THR:HG23	1:L:323:ILE:HD11	1.95	0.49
1:J:317:THR:HG23	1:J:323:ILE:HD11	1.95	0.49
1:F:894:ARG:NH1	1:F:920:LEU:HA	2.28	0.49
1:N:894:ARG:NH1	1:N:920:LEU:HA	2.28	0.49
1:I:894:ARG:NH1	1:I:920:LEU:HA	2.28	0.49
1:G:65:ALA:HB1	1:G:66:PRO:CD	2.39	0.49
1:H:36:TRP:CD2	1:H:42:ALA:HA	2.47	0.49
1:D:660:GLY:O	1:D:662:PRO:HD3	2.12	0.49
1:D:635:THR:HG23	1:D:681:GLU:OE2	2.12	0.49
1:F:635:THR:HG23	1:F:681:GLU:OE2	2.12	0.49
1:I:673:ALA:O	1:I:674:PRO:C	2.51	0.49
1:B:567:VAL:HG12	1:B:568:TRP:N	2.27	0.49
1:E:567:VAL:HG12	1:E:568:TRP:N	2.27	0.49
1:L:127:PHE:CD2	1:L:127:PHE:N	2.79	0.49
1:G:131:GLU:HG3	1:G:132:SER:N	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:581:ASN:OD1	1:H:581:ASN:N	2.44	0.49
1:H:131:GLU:O	1:H:134:LEU:N	2.46	0.49
1:K:131:GLU:O	1:K:134:LEU:N	2.46	0.49
1:E:131:GLU:O	1:E:134:LEU:N	2.46	0.49
1:I:131:GLU:HG3	1:I:132:SER:N	2.26	0.49
1:L:961:ARG:NH2	1:L:979:GLU:O	2.37	0.49
1:F:559:TYR:HB2	1:F:562:LEU:HD12	1.94	0.49
1:G:211:ASP:OD1	1:G:211:ASP:N	2.42	0.49
1:J:465:GLY:O	1:J:468:HIS:HB2	2.12	0.49
1:P:928:PRO:HB2	1:P:973:ARG:HH11	1.78	0.49
1:M:317:THR:HG23	1:M:323:ILE:HD11	1.95	0.49
1:L:894:ARG:NH1	1:L:920:LEU:HA	2.28	0.49
1:M:894:ARG:NH1	1:M:920:LEU:HA	2.28	0.49
1:O:894:ARG:NH1	1:O:920:LEU:HA	2.28	0.49
1:P:781:ARG:CG	1:P:781:ARG:HH11	2.19	0.49
1:G:894:ARG:NH1	1:G:920:LEU:HA	2.28	0.49
1:K:230:ARG:HH11	1:K:230:ARG:CG	2.24	0.49
1:K:23:GLN:HB3	1:K:26:ARG:NH2	2.27	0.49
1:I:856:TYR:HD2	1:I:864:MET:CE	2.25	0.49
1:K:31:PRO:CB	1:K:32:PRO:HD2	2.42	0.49
1:J:131:GLU:O	1:J:134:LEU:N	2.46	0.49
1:A:131:GLU:HG3	1:A:132:SER:N	2.26	0.49
1:P:131:GLU:O	1:P:134:LEU:N	2.46	0.49
1:I:131:GLU:O	1:I:134:LEU:N	2.46	0.49
1:K:559:TYR:HB2	1:K:562:LEU:HD12	1.94	0.49
1:O:211:ASP:N	1:O:211:ASP:OD1	2.42	0.49
1:L:592:PHE:CD1	1:L:592:PHE:N	2.79	0.49
1:P:176:PHE:N	1:P:176:PHE:CD1	2.79	0.49
1:O:570:TRP:CD1	1:O:571:VAL:HG22	2.47	0.49
1:C:570:TRP:CD1	1:C:571:VAL:HG22	2.47	0.49
1:H:928:PRO:HB2	1:H:973:ARG:HH11	1.78	0.49
1:K:748:CME:SD	1:K:755:ARG:HG2	2.52	0.49
1:A:436:MET:HE1	1:A:467:ASN:HD22	1.74	0.49
1:K:894:ARG:NH1	1:K:920:LEU:HA	2.28	0.49
1:A:1020:TRP:CD1	1:A:1021:CME:N	2.80	0.49
1:J:230:ARG:CG	1:J:230:ARG:HH11	2.24	0.49
1:P:65:ALA:HB1	1:P:66:PRO:CD	2.39	0.49
1:K:260:LEU:HA	1:K:260:LEU:HD12	1.61	0.49
1:J:315:LEU:O	1:J:322:LEU:HD12	2.13	0.49
1:E:49:GLN:H	1:E:49:GLN:HE21	1.59	0.49
1:M:635:THR:HG23	1:M:681:GLU:OE2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:673:ALA:O	1:J:674:PRO:C	2.51	0.49
1:G:673:ALA:O	1:G:674:PRO:C	2.51	0.49
1:M:31:PRO:CB	1:M:32:PRO:HD2	2.42	0.49
1:P:31:PRO:CB	1:P:32:PRO:HD2	2.42	0.49
1:H:31:PRO:CB	1:H:32:PRO:HD2	2.42	0.49
1:N:568:TRP:HE1	1:N:604:ASN:ND2	2.09	0.49
1:D:581:ASN:OD1	1:D:581:ASN:N	2.44	0.49
1:C:131:GLU:O	1:C:134:LEU:N	2.46	0.49
1:P:581:ASN:OD1	1:P:581:ASN:N	2.44	0.49
1:N:928:PRO:HB2	1:N:973:ARG:HH11	1.78	0.49
1:C:420:MET:HE3	1:C:420:MET:HA	1.94	0.49
1:P:465:GLY:O	1:P:468:HIS:HB2	2.12	0.49
1:J:570:TRP:CD1	1:J:571:VAL:HG22	2.47	0.49
1:B:740:LEU:CD1	1:B:741:THR:H	2.12	0.49
1:G:742:THR:CG2	1:G:743:SER:N	2.76	0.49
1:A:746:ASP:HA	1:A:760:ARG:CG	2.39	0.49
1:F:317:THR:HG23	1:F:323:ILE:HD11	1.95	0.49
1:N:317:THR:HG23	1:N:323:ILE:HD11	1.95	0.49
1:O:92:MET:HE3	1:O:362:LEU:O	2.13	0.49
1:N:1020:TRP:CD1	1:N:1021:CME:N	2.80	0.49
1:N:824:GLN:HG3	1:N:825:CYS:N	2.28	0.49
1:M:423:MET:HE2	1:P:282:ARG:CG	2.42	0.49
1:A:663:LEU:HD23	1:A:663:LEU:N	2.24	0.49
1:J:631:LEU:HD12	1:J:632:SER:H	1.78	0.49
1:H:79:PRO:HG2	1:H:80:GLU:OE2	2.13	0.49
1:B:79:PRO:HG2	1:B:80:GLU:OE2	2.13	0.49
1:O:673:ALA:O	1:O:674:PRO:C	2.51	0.49
1:L:237:ARG:HH11	1:L:237:ARG:HB3	1.77	0.49
1:I:344:LEU:HD23	1:I:344:LEU:C	2.33	0.49
1:M:579:ASP:N	1:M:583:ASN:O	2.40	0.49
1:F:131:GLU:O	1:F:134:LEU:N	2.46	0.49
1:N:131:GLU:O	1:N:134:LEU:N	2.46	0.49
1:M:73:TRP:CZ2	1:M:185:ALA:HB1	2.47	0.49
1:D:131:GLU:HG3	1:D:132:SER:N	2.26	0.49
1:D:757:GLN:HG2	1:D:757:GLN:O	2.12	0.49
1:C:433:LEU:HD12	1:C:433:LEU:O	2.13	0.49
1:I:748:CME:SD	1:I:755:ARG:HG2	2.52	0.49
1:K:317:THR:HG23	1:K:323:ILE:HD11	1.95	0.49
1:E:317:THR:HG23	1:E:323:ILE:HD11	1.95	0.49
1:H:433:LEU:HD12	1:H:433:LEU:O	2.13	0.49
1:J:1020:TRP:CD1	1:J:1021:CME:N	2.80	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:824:GLN:HG3	1:G:825:CYS:N	2.28	0.49
1:A:65:ALA:HB1	1:A:66:PRO:CD	2.39	0.49
1:D:315:LEU:O	1:D:322:LEU:HD12	2.13	0.49
1:M:660:GLY:O	1:M:662:PRO:HD3	2.12	0.49
1:K:673:ALA:O	1:K:674:PRO:C	2.51	0.49
1:J:31:PRO:CB	1:J:32:PRO:HD2	2.42	0.49
1:L:567:VAL:HG12	1:L:568:TRP:N	2.27	0.49
1:C:127:PHE:N	1:C:127:PHE:CD2	2.79	0.49
1:K:567:VAL:HG12	1:K:568:TRP:N	2.27	0.49
1:G:178:ARG:HH11	1:G:178:ARG:HB2	1.76	0.49
1:B:469:ASP:HB3	1:C:473:ARG:HD2	1.93	0.49
1:E:469:ASP:HB3	1:H:473:ARG:HD2	1.95	0.49
1:K:403:ASP:OD2	1:K:450:HIS:ND1	2.34	0.49
1:B:131:GLU:O	1:B:134:LEU:N	2.46	0.49
1:E:86:VAL:HG13	1:E:87:PRO:HA	1.95	0.49
1:D:131:GLU:O	1:D:134:LEU:N	2.46	0.49
1:L:465:GLY:O	1:L:468:HIS:HB2	2.12	0.49
1:J:928:PRO:HB2	1:J:973:ARG:HH11	1.78	0.49
1:L:746:ASP:HA	1:L:760:ARG:CG	2.39	0.48
1:D:742:THR:CG2	1:D:743:SER:N	2.76	0.48
1:J:748:CME:SD	1:J:755:ARG:HG2	2.52	0.48
1:A:748:CME:SD	1:A:755:ARG:HG2	2.52	0.48
1:F:57:GLU:HG2	1:F:83:THR:HG21	1.94	0.48
1:F:1020:TRP:CD1	1:F:1021:CME:N	2.80	0.48
1:C:1020:TRP:CD1	1:C:1021:CME:N	2.80	0.48
1:H:65:ALA:HB1	1:H:66:PRO:CD	2.39	0.48
1:P:315:LEU:O	1:P:322:LEU:HD12	2.13	0.48
1:N:433:LEU:N	1:N:434:PRO:HD2	2.26	0.48
1:P:631:LEU:HD12	1:P:632:SER:H	1.78	0.48
1:K:631:LEU:HD12	1:K:632:SER:H	1.78	0.48
1:B:856:TYR:HD2	1:B:864:MET:CE	2.25	0.48
1:P:237:ARG:HB3	1:P:237:ARG:HH11	1.77	0.48
1:A:31:PRO:CB	1:A:32:PRO:HD2	2.42	0.48
1:P:567:VAL:HG12	1:P:568:TRP:N	2.27	0.48
1:G:567:VAL:HG12	1:G:568:TRP:N	2.27	0.48
1:J:131:GLU:HG3	1:J:132:SER:N	2.26	0.48
1:I:178:ARG:HH11	1:I:178:ARG:HB2	1.76	0.48
1:A:131:GLU:O	1:A:134:LEU:N	2.46	0.48
1:M:86:VAL:HG13	1:M:87:PRO:HA	1.95	0.48
1:K:767:GLN:CG	1:K:768:MET:N	2.75	0.48
1:N:1018:LEU:HD23	1:N:1018:LEU:HA	1.51	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:612:THR:HB	1:H:613:PRO:HD2	1.95	0.48
1:A:802:ASP:OD1	1:A:803:PRO:HD2	2.13	0.48
1:C:287:ASP:OD1	1:C:287:ASP:N	2.29	0.48
1:F:465:GLY:O	1:F:468:HIS:HB2	2.12	0.48
1:J:961:ARG:NH2	1:J:979:GLU:O	2.37	0.48
1:I:167:LEU:HB3	1:I:168:PRO:HD2	1.95	0.48
1:P:167:LEU:HB3	1:P:168:PRO:HD2	1.95	0.48
1:K:772:ASP:OD1	1:K:772:ASP:N	2.30	0.48
1:E:592:PHE:CD1	1:E:592:PHE:N	2.79	0.48
1:J:420:MET:HE3	1:J:420:MET:HA	1.95	0.48
1:I:465:GLY:O	1:I:468:HIS:HB2	2.12	0.48
1:L:802:ASP:OD1	1:L:803:PRO:HD2	2.13	0.48
1:C:465:GLY:O	1:C:468:HIS:HB2	2.12	0.48
1:L:928:PRO:HB2	1:L:973:ARG:HH11	1.78	0.48
1:E:559:TYR:HB2	1:E:562:LEU:HD12	1.94	0.48
1:L:748:CME:SD	1:L:755:ARG:HG2	2.52	0.48
1:F:742:THR:CG2	1:F:743:SER:N	2.76	0.48
1:O:748:CME:SD	1:O:755:ARG:HG2	2.53	0.48
1:P:742:THR:CG2	1:P:743:SER:N	2.76	0.48
1:A:419:GLY:C	1:D:282:ARG:HH11	2.17	0.48
1:L:824:GLN:O	1:L:838:THR:HA	2.14	0.48
1:D:824:GLN:O	1:D:838:THR:HA	2.14	0.48
1:P:824:GLN:HG3	1:P:825:CYS:N	2.28	0.48
1:C:824:GLN:O	1:C:838:THR:HA	2.14	0.48
1:M:433:LEU:HD12	1:M:433:LEU:O	2.13	0.48
1:P:36:TRP:CD2	1:P:42:ALA:HA	2.46	0.48
1:I:418:HIS:O	1:L:282:ARG:HD3	2.12	0.48
1:K:635:THR:HG23	1:K:681:GLU:OE2	2.12	0.48
1:O:631:LEU:HD12	1:O:632:SER:H	1.78	0.48
1:I:79:PRO:HG2	1:I:80:GLU:OE2	2.13	0.48
1:F:631:LEU:HD12	1:F:632:SER:H	1.78	0.48
1:C:31:PRO:CB	1:C:32:PRO:HD2	2.42	0.48
1:H:344:LEU:HD23	1:H:344:LEU:C	2.34	0.48
1:O:237:ARG:HH11	1:O:237:ARG:HB3	1.77	0.48
1:O:567:VAL:HG12	1:O:568:TRP:N	2.27	0.48
1:L:86:VAL:HG13	1:L:87:PRO:HA	1.96	0.48
1:K:73:TRP:CH2	1:K:185:ALA:HB1	2.49	0.48
1:B:612:THR:HB	1:B:613:PRO:HD2	1.95	0.48
1:H:167:LEU:HB3	1:H:168:PRO:HD2	1.95	0.48
1:P:442:ARG:HA	1:P:445:GLN:HG3	1.95	0.48
1:D:802:ASP:OD1	1:D:803:PRO:HD2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:167:LEU:HB3	1:E:168:PRO:HD2	1.95	0.48
1:A:420:MET:HE3	1:A:420:MET:HA	1.96	0.48
1:P:344:LEU:C	1:P:344:LEU:HD23	2.34	0.48
1:D:928:PRO:HB2	1:D:973:ARG:HH11	1.78	0.48
1:M:167:LEU:HB3	1:M:168:PRO:HD2	1.95	0.48
1:J:742:THR:CG2	1:J:743:SER:N	2.76	0.48
1:N:748:CME:SD	1:N:755:ARG:HG2	2.52	0.48
1:G:433:LEU:O	1:G:433:LEU:HD12	2.13	0.48
1:B:57:GLU:HG2	1:B:83:THR:HG21	1.93	0.48
1:C:317:THR:HG23	1:C:323:ILE:HD11	1.95	0.48
1:J:894:ARG:NH1	1:J:920:LEU:HA	2.28	0.48
1:H:824:GLN:O	1:H:838:THR:HA	2.14	0.48
1:A:824:GLN:O	1:A:838:THR:HA	2.13	0.48
1:J:189:LEU:N	1:J:189:LEU:CD2	2.75	0.48
1:D:79:PRO:HG2	1:D:80:GLU:OE2	2.13	0.48
1:B:673:ALA:O	1:B:674:PRO:C	2.51	0.48
1:N:79:PRO:HG2	1:N:80:GLU:OE2	2.13	0.48
1:M:673:ALA:O	1:M:674:PRO:C	2.51	0.48
1:A:433:LEU:O	1:A:433:LEU:HD12	2.13	0.48
1:G:237:ARG:HB3	1:G:237:ARG:HH11	1.77	0.48
1:A:344:LEU:HD23	1:A:344:LEU:C	2.34	0.48
1:H:127:PHE:N	1:H:127:PHE:CD2	2.79	0.48
1:M:131:GLU:O	1:M:134:LEU:N	2.46	0.48
1:L:131:GLU:O	1:L:134:LEU:N	2.46	0.48
1:M:802:ASP:OD1	1:M:803:PRO:HD2	2.13	0.48
1:L:559:TYR:HB2	1:L:562:LEU:HD12	1.94	0.48
1:E:928:PRO:HB2	1:E:973:ARG:HH11	1.78	0.48
1:C:928:PRO:HB2	1:C:973:ARG:HH11	1.78	0.48
1:M:559:TYR:HB2	1:M:562:LEU:HD12	1.94	0.48
1:A:928:PRO:HB2	1:A:973:ARG:HH11	1.78	0.48
1:I:442:ARG:HA	1:I:445:GLN:HG3	1.95	0.48
1:E:344:LEU:HD23	1:E:344:LEU:C	2.33	0.48
1:I:757:GLN:O	1:I:757:GLN:HG2	2.12	0.48
1:J:757:GLN:HG2	1:J:757:GLN:O	2.12	0.48
1:K:211:ASP:N	1:K:211:ASP:OD1	2.42	0.48
1:M:928:PRO:HB2	1:M:973:ARG:HH11	1.78	0.48
1:B:742:THR:CG2	1:B:743:SER:N	2.76	0.48
1:B:746:ASP:HA	1:B:760:ARG:CG	2.39	0.48
1:L:742:THR:CG2	1:L:743:SER:N	2.76	0.48
1:D:742:THR:CG2	1:D:743:SER:H	2.27	0.48
1:E:652:LEU:HB3	1:E:668:VAL:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:652:LEU:HB3	1:A:668:VAL:O	2.14	0.48
1:D:57:GLU:HG2	1:D:83:THR:HG21	1.93	0.48
1:C:253:TYR:N	1:C:253:TYR:CD2	2.82	0.48
1:O:824:GLN:O	1:O:838:THR:HA	2.14	0.48
1:M:824:GLN:HG3	1:M:825:CYS:N	2.28	0.48
1:O:685:LEU:HA	1:O:686:PRO:HD3	1.70	0.48
1:N:433:LEU:O	1:N:433:LEU:HD12	2.13	0.48
1:O:433:LEU:HD12	1:O:433:LEU:O	2.13	0.48
1:L:663:LEU:N	1:L:663:LEU:HD23	2.24	0.48
1:G:631:LEU:HD12	1:G:632:SER:H	1.79	0.48
1:C:631:LEU:HD12	1:C:632:SER:H	1.78	0.48
1:P:79:PRO:HG2	1:P:80:GLU:OE2	2.13	0.48
1:N:631:LEU:HD12	1:N:632:SER:H	1.79	0.48
1:C:673:ALA:O	1:C:674:PRO:C	2.51	0.48
1:G:31:PRO:CB	1:G:32:PRO:HD2	2.42	0.48
1:F:237:ARG:HB3	1:F:237:ARG:HH11	1.77	0.48
1:N:344:LEU:C	1:N:344:LEU:HD23	2.33	0.48
1:F:344:LEU:HD23	1:F:344:LEU:C	2.33	0.48
1:A:127:PHE:CD2	1:A:127:PHE:N	2.79	0.48
1:P:778:THR:HG22	1:P:887:GLN:H	1.79	0.48
1:D:73:TRP:CH2	1:D:185:ALA:HB1	2.49	0.48
1:M:612:THR:HB	1:M:613:PRO:HD2	1.95	0.48
1:G:612:THR:HB	1:G:613:PRO:HD2	1.96	0.48
1:O:612:THR:HB	1:O:613:PRO:HD2	1.96	0.48
1:P:612:THR:HB	1:P:613:PRO:HD2	1.95	0.48
1:G:802:ASP:OD1	1:G:803:PRO:HD2	2.14	0.48
1:N:167:LEU:HB3	1:N:168:PRO:HD2	1.96	0.48
1:N:442:ARG:HA	1:N:445:GLN:HG3	1.96	0.48
1:I:559:TYR:HB2	1:I:562:LEU:HD12	1.94	0.48
1:O:465:GLY:O	1:O:468:HIS:HB2	2.12	0.48
1:M:344:LEU:C	1:M:344:LEU:HD23	2.34	0.48
1:I:592:PHE:CD1	1:I:592:PHE:N	2.79	0.48
1:N:420:MET:HA	1:N:420:MET:HE3	1.95	0.48
1:K:802:ASP:OD1	1:K:803:PRO:HD2	2.13	0.48
1:D:559:TYR:HB2	1:D:562:LEU:HD12	1.94	0.48
1:F:167:LEU:HB3	1:F:168:PRO:HD2	1.95	0.48
1:F:442:ARG:HA	1:F:445:GLN:HG3	1.96	0.48
1:I:745:MET:HA	1:I:745:MET:CE	2.43	0.48
1:M:742:THR:CG2	1:M:743:SER:H	2.27	0.48
1:M:652:LEU:HB3	1:M:668:VAL:O	2.14	0.48
1:F:433:LEU:O	1:F:433:LEU:HD12	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:433:LEU:O	1:E:433:LEU:HD12	2.13	0.48
1:J:433:LEU:O	1:J:433:LEU:HD12	2.13	0.48
1:H:894:ARG:NH1	1:H:920:LEU:HA	2.28	0.48
1:I:781:ARG:HG3	1:I:781:ARG:NH1	2.17	0.48
1:E:315:LEU:O	1:E:322:LEU:HD12	2.13	0.48
1:M:79:PRO:HG2	1:M:80:GLU:OE2	2.13	0.48
1:J:237:ARG:HH11	1:J:237:ARG:HB3	1.77	0.48
1:O:31:PRO:CB	1:O:32:PRO:HD2	2.42	0.48
1:D:347:LYS:CB	1:D:348:PRO:HD2	2.43	0.48
1:I:425:ARG:HH22	1:L:287:ASP:CG	2.15	0.48
1:N:86:VAL:HG13	1:N:87:PRO:HA	1.95	0.48
1:E:73:TRP:CH2	1:E:185:ALA:HB1	2.49	0.48
1:I:928:PRO:HB2	1:I:973:ARG:HH11	1.78	0.48
1:H:442:ARG:HA	1:H:445:GLN:HG3	1.95	0.48
1:B:802:ASP:OD1	1:B:803:PRO:HD2	2.13	0.48
1:G:465:GLY:O	1:G:468:HIS:HB2	2.12	0.48
1:K:928:PRO:HB2	1:K:973:ARG:HH11	1.78	0.48
1:B:928:PRO:HB2	1:B:973:ARG:HH11	1.78	0.48
1:M:961:ARG:NH2	1:M:979:GLU:O	2.37	0.48
1:L:442:ARG:HA	1:L:445:GLN:HG3	1.95	0.48
1:I:317:THR:HG23	1:I:323:ILE:HD11	1.95	0.48
1:K:652:LEU:HB3	1:K:668:VAL:O	2.14	0.48
1:G:317:THR:HG23	1:G:323:ILE:HD11	1.95	0.48
1:P:579:ASP:N	1:P:583:ASN:O	2.40	0.48
1:O:652:LEU:HB3	1:O:668:VAL:O	2.14	0.48
1:H:781:ARG:HH11	1:H:781:ARG:CG	2.19	0.48
1:M:230:ARG:CG	1:M:230:ARG:HH11	2.24	0.48
1:P:63:PHE:CB	1:P:64:PRO:HD2	2.32	0.48
1:K:824:GLN:O	1:K:838:THR:HA	2.13	0.48
1:B:65:ALA:HB1	1:B:66:PRO:CD	2.39	0.48
1:P:824:GLN:O	1:P:838:THR:HA	2.14	0.48
1:J:65:ALA:HB1	1:J:66:PRO:CD	2.38	0.48
1:B:824:GLN:HG3	1:B:825:CYS:N	2.28	0.48
1:F:824:GLN:O	1:F:838:THR:HA	2.13	0.48
1:J:702:GLN:O	1:J:712:GLY:N	2.45	0.48
1:O:126:THR:HA	1:O:182:ASN:O	2.14	0.48
1:H:126:THR:HA	1:H:182:ASN:O	2.14	0.48
1:K:856:TYR:HD2	1:K:864:MET:CE	2.25	0.48
1:G:778:THR:HG22	1:G:887:GLN:H	1.79	0.48
1:M:778:THR:HG22	1:M:887:GLN:H	1.79	0.48
1:C:86:VAL:HG13	1:C:87:PRO:HA	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:86:VAL:HG13	1:F:87:PRO:HA	1.95	0.48
1:I:73:TRP:CH2	1:I:185:ALA:HB1	2.49	0.48
1:A:73:TRP:CH2	1:A:185:ALA:HB1	2.49	0.48
1:E:612:THR:HB	1:E:613:PRO:HD2	1.96	0.48
1:A:612:THR:HB	1:A:613:PRO:HD2	1.96	0.48
1:G:442:ARG:HA	1:G:445:GLN:HG3	1.96	0.48
1:B:442:ARG:HA	1:B:445:GLN:HG3	1.95	0.48
1:D:147:ASN:HA	1:D:148:SER:HA	1.55	0.48
1:O:802:ASP:OD1	1:O:803:PRO:HD2	2.13	0.48
1:J:802:ASP:OD1	1:J:803:PRO:HD2	2.13	0.48
1:G:287:ASP:N	1:G:287:ASP:OD1	2.29	0.48
1:K:442:ARG:HA	1:K:445:GLN:HG3	1.96	0.48
1:J:745:MET:HA	1:J:745:MET:CE	2.44	0.48
1:O:742:THR:CG2	1:O:743:SER:N	2.76	0.48
1:F:745:MET:HA	1:F:745:MET:CE	2.44	0.48
1:N:742:THR:CG2	1:N:743:SER:N	2.76	0.48
1:E:742:THR:CG2	1:E:743:SER:H	2.27	0.48
1:H:652:LEU:HB3	1:H:668:VAL:O	2.14	0.48
1:K:1020:TRP:CD1	1:K:1021:CME:N	2.80	0.48
1:D:253:TYR:CD2	1:D:253:TYR:N	2.82	0.48
1:G:253:TYR:CD2	1:G:253:TYR:N	2.82	0.48
1:J:79:PRO:HG2	1:J:80:GLU:OE2	2.13	0.48
1:F:79:PRO:HG2	1:F:80:GLU:OE2	2.13	0.48
1:P:673:ALA:O	1:P:674:PRO:C	2.51	0.48
1:D:433:LEU:O	1:D:433:LEU:HD12	2.13	0.48
1:L:30:HIS:ND1	1:L:33:PHE:CE1	2.82	0.48
1:F:282:ARG:NH1	1:G:419:GLY:HA2	2.28	0.48
1:B:344:LEU:HD23	1:B:344:LEU:C	2.33	0.48
1:G:344:LEU:C	1:G:344:LEU:HD23	2.34	0.48
1:F:287:ASP:CG	1:G:425:ARG:HH22	2.17	0.48
1:O:131:GLU:O	1:O:134:LEU:N	2.46	0.48
1:B:178:ARG:HB2	1:B:178:ARG:HH11	1.77	0.48
1:M:73:TRP:CH2	1:M:185:ALA:HB1	2.49	0.48
1:P:73:TRP:CH2	1:P:185:ALA:HB1	2.49	0.48
1:N:612:THR:HB	1:N:613:PRO:HD2	1.95	0.48
1:N:612:THR:HA	1:N:613:PRO:HD3	1.68	0.48
1:A:167:LEU:HB3	1:A:168:PRO:HD2	1.96	0.48
1:D:961:ARG:NH2	1:D:979:GLU:O	2.37	0.48
1:O:442:ARG:HA	1:O:445:GLN:HG3	1.96	0.48
1:C:802:ASP:OD1	1:C:803:PRO:HD2	2.14	0.48
1:C:679:LEU:HA	1:C:679:LEU:HD23	1.26	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:211:ASP:OD1	1:I:211:ASP:N	2.42	0.48
1:J:344:LEU:C	1:J:344:LEU:HD23	2.34	0.48
1:G:928:PRO:HB2	1:G:973:ARG:HH11	1.78	0.48
1:L:167:LEU:HB3	1:L:168:PRO:HD2	1.96	0.48
1:O:742:THR:CG2	1:O:743:SER:H	2.27	0.48
1:L:742:THR:CG2	1:L:743:SER:H	2.27	0.48
1:A:742:THR:CG2	1:A:743:SER:H	2.27	0.48
1:A:745:MET:HA	1:A:745:MET:CE	2.44	0.48
1:J:253:TYR:N	1:J:253:TYR:CD2	2.82	0.48
1:P:894:ARG:NH1	1:P:920:LEU:HA	2.28	0.48
1:E:894:ARG:NH1	1:E:920:LEU:HA	2.28	0.48
1:G:230:ARG:HH11	1:G:230:ARG:CG	2.24	0.48
1:N:66:PRO:HD2	1:N:67:GLU:OE2	2.14	0.48
1:C:824:GLN:HG3	1:C:825:CYS:N	2.28	0.48
1:H:66:PRO:HD2	1:H:67:GLU:OE2	2.14	0.48
1:M:824:GLN:O	1:M:838:THR:HA	2.14	0.48
1:E:824:GLN:HG3	1:E:825:CYS:N	2.28	0.48
1:F:824:GLN:HG3	1:F:825:CYS:N	2.28	0.48
1:N:824:GLN:O	1:N:838:THR:HA	2.14	0.48
1:I:824:GLN:O	1:I:838:THR:HA	2.14	0.48
1:L:315:LEU:O	1:L:322:LEU:HD12	2.13	0.48
1:H:315:LEU:O	1:H:322:LEU:HD12	2.13	0.48
1:F:315:LEU:O	1:F:322:LEU:HD12	2.13	0.48
1:A:315:LEU:O	1:A:322:LEU:HD12	2.13	0.48
1:E:663:LEU:N	1:E:663:LEU:HD23	2.24	0.48
1:D:631:LEU:HD12	1:D:632:SER:H	1.78	0.48
1:I:631:LEU:HD12	1:I:632:SER:H	1.78	0.48
1:K:79:PRO:HG2	1:K:80:GLU:OE2	2.13	0.48
1:C:79:PRO:HG2	1:C:80:GLU:OE2	2.13	0.48
1:A:126:THR:HA	1:A:182:ASN:O	2.14	0.48
1:C:30:HIS:ND1	1:C:33:PHE:CE1	2.82	0.48
1:I:237:ARG:HB3	1:I:237:ARG:HH11	1.77	0.48
1:P:599:ARG:HB2	1:P:600:GLN:H	1.40	0.48
1:L:271:THR:HG22	1:L:272:ALA:N	2.29	0.48
1:J:778:THR:HG22	1:J:887:GLN:H	1.79	0.48
1:E:778:THR:HG22	1:E:887:GLN:H	1.79	0.48
1:G:131:GLU:O	1:G:134:LEU:N	2.46	0.48
1:D:86:VAL:HG13	1:D:87:PRO:HA	1.95	0.48
1:B:778:THR:HG22	1:B:887:GLN:H	1.79	0.48
1:O:73:TRP:CH2	1:O:185:ALA:HB1	2.49	0.48
1:N:73:TRP:CH2	1:N:185:ALA:HB1	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:608:PHE:O	1:C:611:ARG:N	2.41	0.48
1:O:928:PRO:HB2	1:O:973:ARG:HH11	1.78	0.48
1:L:869:ASP:OD2	1:L:1015:HIS:ND1	2.33	0.48
1:D:875:ASP:N	1:D:875:ASP:OD2	2.47	0.48
1:L:772:ASP:OD1	1:L:772:ASP:N	2.30	0.48
1:D:344:LEU:HD23	1:D:344:LEU:C	2.34	0.48
1:E:802:ASP:OD1	1:E:803:PRO:HD2	2.13	0.48
1:H:742:THR:CG2	1:H:743:SER:N	2.76	0.48
1:I:742:THR:CG2	1:I:743:SER:N	2.76	0.48
1:E:742:THR:CG2	1:E:743:SER:N	2.76	0.48
1:C:742:THR:CG2	1:C:743:SER:H	2.27	0.48
1:O:436:MET:HE1	1:O:467:ASN:HD22	1.75	0.48
1:O:317:THR:HG23	1:O:323:ILE:HD11	1.95	0.48
1:B:317:THR:HG23	1:B:323:ILE:HD11	1.95	0.48
1:M:1020:TRP:CD1	1:M:1021:CME:N	2.80	0.48
1:A:894:ARG:NH1	1:A:920:LEU:HA	2.28	0.48
1:K:66:PRO:HD2	1:K:67:GLU:OE2	2.14	0.48
1:O:824:GLN:HG3	1:O:825:CYS:N	2.28	0.48
1:H:824:GLN:HG3	1:H:825:CYS:N	2.28	0.48
1:P:433:LEU:O	1:P:433:LEU:HD12	2.13	0.48
1:O:315:LEU:O	1:O:322:LEU:HD12	2.13	0.48
1:I:315:LEU:O	1:I:322:LEU:HD12	2.13	0.48
1:B:315:LEU:O	1:B:322:LEU:HD12	2.13	0.48
1:P:24:LEU:HD12	1:P:24:LEU:HA	1.62	0.48
1:N:315:LEU:O	1:N:322:LEU:HD12	2.13	0.48
1:M:315:LEU:O	1:M:322:LEU:HD12	2.13	0.48
1:M:702:GLN:O	1:M:712:GLY:N	2.45	0.48
1:G:856:TYR:CD2	1:G:864:MET:CE	2.97	0.48
1:G:79:PRO:HG2	1:G:80:GLU:OE2	2.13	0.48
1:N:126:THR:HA	1:N:182:ASN:O	2.14	0.48
1:A:673:ALA:O	1:A:674:PRO:C	2.51	0.48
1:A:79:PRO:HG2	1:A:80:GLU:OE2	2.13	0.48
1:E:126:THR:HA	1:E:182:ASN:O	2.14	0.48
1:H:129:VAL:CG2	1:H:182:ASN:ND2	2.77	0.48
1:E:30:HIS:ND1	1:E:33:PHE:CE1	2.82	0.48
1:C:344:LEU:HD23	1:C:344:LEU:C	2.34	0.48
1:O:344:LEU:C	1:O:344:LEU:HD23	2.34	0.48
1:B:271:THR:HG22	1:B:272:ALA:N	2.29	0.48
1:I:778:THR:HG22	1:I:887:GLN:H	1.79	0.48
1:P:86:VAL:HG13	1:P:87:PRO:HA	1.96	0.48
1:D:1018:LEU:HA	1:D:1018:LEU:HD23	1.51	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:73:TRP:CH2	1:J:185:ALA:HB1	2.49	0.48
1:F:73:TRP:CH2	1:F:185:ALA:HB1	2.49	0.48
1:C:73:TRP:CH2	1:C:185:ALA:HB1	2.49	0.48
1:E:608:PHE:O	1:E:611:ARG:N	2.41	0.48
1:D:612:THR:HB	1:D:613:PRO:HD2	1.95	0.48
1:J:118:ASN:HA	1:J:119:PRO:HD2	1.60	0.48
1:N:802:ASP:OD1	1:N:803:PRO:HD2	2.13	0.48
1:H:531:ARG:O	1:H:561:ARG:NH1	2.46	0.48
1:C:442:ARG:HA	1:C:445:GLN:HG3	1.95	0.48
1:J:167:LEU:HB3	1:J:168:PRO:HD2	1.95	0.48
1:D:436:MET:HE3	1:D:467:ASN:ND2	2.17	0.48
1:K:742:THR:CG2	1:K:743:SER:H	2.27	0.48
1:P:317:THR:HG23	1:P:323:ILE:HD11	1.95	0.48
1:B:652:LEU:HB3	1:B:668:VAL:O	2.14	0.48
1:G:579:ASP:N	1:G:583:ASN:O	2.40	0.48
1:L:781:ARG:NH1	1:L:781:ARG:HG3	2.17	0.48
1:P:253:TYR:CD2	1:P:253:TYR:N	2.82	0.48
1:B:894:ARG:NH1	1:B:920:LEU:HA	2.28	0.48
1:G:948:PRO:O	1:G:1022:GLN:HA	2.14	0.48
1:A:948:PRO:O	1:A:1022:GLN:HA	2.14	0.48
1:H:63:PHE:CB	1:H:64:PRO:HD2	2.32	0.48
1:F:66:PRO:HD2	1:F:67:GLU:OE2	2.14	0.48
1:L:66:PRO:HD2	1:L:67:GLU:OE2	2.14	0.48
1:A:66:PRO:HD2	1:A:67:GLU:OE2	2.14	0.48
1:B:824:GLN:O	1:B:838:THR:HA	2.13	0.48
1:E:824:GLN:O	1:E:838:THR:HA	2.13	0.48
1:E:24:LEU:HA	1:E:24:LEU:HD12	1.62	0.48
1:G:315:LEU:O	1:G:322:LEU:HD12	2.13	0.48
1:G:11:LEU:N	1:G:11:LEU:CD2	2.76	0.48
1:J:631:LEU:HD12	1:J:635:THR:O	2.14	0.48
1:E:856:TYR:CD2	1:E:864:MET:CE	2.97	0.48
1:L:79:PRO:HG2	1:L:80:GLU:OE2	2.13	0.48
1:M:129:VAL:CG2	1:M:182:ASN:ND2	2.77	0.48
1:F:129:VAL:CG2	1:F:182:ASN:ND2	2.77	0.48
1:L:673:ALA:O	1:L:674:PRO:C	2.51	0.48
1:I:126:THR:HA	1:I:182:ASN:O	2.14	0.48
1:B:856:TYR:CD2	1:B:864:MET:CE	2.97	0.48
1:H:673:ALA:O	1:H:674:PRO:C	2.51	0.48
1:K:30:HIS:ND1	1:K:33:PHE:CE1	2.82	0.48
1:K:344:LEU:HD23	1:K:344:LEU:C	2.34	0.48
1:H:86:VAL:HG13	1:H:87:PRO:HA	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:73:TRP:CH2	1:L:185:ALA:HB1	2.49	0.48
1:J:612:THR:HB	1:J:613:PRO:HD2	1.96	0.48
1:K:409:VAL:HG12	1:K:410:VAL:N	2.29	0.48
1:D:531:ARG:O	1:D:561:ARG:NH1	2.46	0.48
1:K:742:THR:CG2	1:K:743:SER:N	2.76	0.47
1:F:742:THR:CG2	1:F:743:SER:H	2.27	0.47
1:M:742:THR:CG2	1:M:743:SER:N	2.76	0.47
1:G:746:ASP:HA	1:G:760:ARG:CG	2.39	0.47
1:L:652:LEU:HB3	1:L:668:VAL:O	2.14	0.47
1:P:652:LEU:HB3	1:P:668:VAL:O	2.14	0.47
1:N:948:PRO:O	1:N:1022:GLN:HA	2.14	0.47
1:I:253:TYR:CD2	1:I:253:TYR:N	2.82	0.47
1:I:948:PRO:O	1:I:1022:GLN:HA	2.14	0.47
1:F:948:PRO:O	1:F:1022:GLN:HA	2.14	0.47
1:O:66:PRO:HB3	1:O:187:MET:HE1	1.96	0.47
1:O:856:TYR:CD2	1:O:864:MET:CE	2.97	0.47
1:D:631:LEU:HD12	1:D:635:THR:O	2.14	0.47
1:C:78:LEU:CB	1:C:79:PRO:HD2	2.44	0.47
1:H:856:TYR:CD2	1:H:864:MET:CE	2.97	0.47
1:E:79:PRO:HG2	1:E:80:GLU:OE2	2.13	0.47
1:L:126:THR:HA	1:L:182:ASN:O	2.14	0.47
1:D:126:THR:HA	1:D:182:ASN:O	2.14	0.47
1:D:30:HIS:ND1	1:D:33:PHE:CE1	2.82	0.47
1:F:30:HIS:ND1	1:F:33:PHE:CE1	2.82	0.47
1:G:30:HIS:ND1	1:G:33:PHE:CE1	2.82	0.47
1:A:778:THR:HG22	1:A:887:GLN:H	1.79	0.47
1:A:271:THR:HG22	1:A:272:ALA:N	2.29	0.47
1:I:84:VAL:CG1	1:I:85:VAL:N	2.77	0.47
1:H:84:VAL:CG1	1:H:85:VAL:N	2.77	0.47
1:F:612:THR:HB	1:F:613:PRO:HD2	1.95	0.47
1:H:610:ASP:OD2	1:H:612:THR:HG23	2.14	0.47
1:B:167:LEU:HB3	1:B:168:PRO:HD2	1.96	0.47
1:J:409:VAL:HG12	1:J:410:VAL:N	2.29	0.47
1:I:802:ASP:OD1	1:I:803:PRO:HD2	2.13	0.47
1:D:420:MET:HA	1:D:420:MET:HE3	1.96	0.47
1:M:878:HIS:HA	1:M:879:PRO:HD3	1.66	0.47
1:H:93:HIS:HB3	1:H:95:TYR:CE1	2.49	0.47
1:N:742:THR:CG2	1:N:743:SER:H	2.27	0.47
1:N:745:MET:CE	1:N:745:MET:HA	2.44	0.47
1:J:652:LEU:HB3	1:J:668:VAL:O	2.14	0.47
1:I:652:LEU:HB3	1:I:668:VAL:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:652:LEU:HB3	1:G:668:VAL:O	2.14	0.47
1:O:948:PRO:O	1:O:1022:GLN:HA	2.14	0.47
1:D:894:ARG:NH1	1:D:920:LEU:HA	2.28	0.47
1:K:433:LEU:HD12	1:K:433:LEU:O	2.13	0.47
1:C:948:PRO:O	1:C:1022:GLN:HA	2.14	0.47
1:N:253:TYR:CD2	1:N:253:TYR:N	2.82	0.47
1:F:856:TYR:CD2	1:F:864:MET:CE	2.97	0.47
1:L:824:GLN:HG3	1:L:825:CYS:N	2.28	0.47
1:K:824:GLN:HG3	1:K:825:CYS:N	2.28	0.47
1:J:824:GLN:O	1:J:838:THR:HA	2.14	0.47
1:E:66:PRO:CB	1:E:187:MET:HE1	2.45	0.47
1:A:66:PRO:CB	1:A:187:MET:HE1	2.45	0.47
1:O:395:HIS:HA	1:O:396:PRO:HD3	1.48	0.47
1:K:315:LEU:O	1:K:322:LEU:HD12	2.13	0.47
1:C:315:LEU:O	1:C:322:LEU:HD12	2.13	0.47
1:L:24:LEU:HD12	1:L:24:LEU:HA	1.62	0.47
1:A:856:TYR:CD2	1:A:864:MET:CE	2.97	0.47
1:O:11:LEU:N	1:O:11:LEU:CD2	2.76	0.47
1:A:631:LEU:HD12	1:A:635:THR:O	2.14	0.47
1:D:673:ALA:O	1:D:674:PRO:C	2.51	0.47
1:N:30:HIS:ND1	1:N:33:PHE:CE1	2.82	0.47
1:O:30:HIS:ND1	1:O:33:PHE:CE1	2.82	0.47
1:F:778:THR:HG22	1:F:887:GLN:H	1.79	0.47
1:N:84:VAL:CG1	1:N:85:VAL:N	2.78	0.47
1:D:610:ASP:OD2	1:D:612:THR:HG23	2.15	0.47
1:C:88:SER:HA	1:C:366:VAL:HG21	1.97	0.47
1:F:928:PRO:HB2	1:F:973:ARG:HH11	1.78	0.47
1:C:167:LEU:HB3	1:C:168:PRO:HD2	1.95	0.47
1:L:420:MET:HE3	1:L:420:MET:HA	1.96	0.47
1:F:802:ASP:OD1	1:F:803:PRO:HD2	2.13	0.47
1:B:742:THR:CG2	1:B:743:SER:H	2.27	0.47
1:B:745:MET:HA	1:B:745:MET:CE	2.43	0.47
1:G:744:GLU:C	1:G:745:MET:HE3	2.34	0.47
1:A:742:THR:CG2	1:A:743:SER:N	2.76	0.47
1:C:742:THR:CG2	1:C:743:SER:N	2.76	0.47
1:K:253:TYR:N	1:K:253:TYR:CD2	2.82	0.47
1:F:253:TYR:CD2	1:F:253:TYR:N	2.82	0.47
1:G:1020:TRP:CD1	1:G:1021:CME:N	2.80	0.47
1:B:63:PHE:CB	1:B:64:PRO:HD2	2.32	0.47
1:P:66:PRO:HD2	1:P:67:GLU:OE2	2.14	0.47
1:D:66:PRO:CB	1:D:187:MET:HE1	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:730:LEU:HA	1:M:731:PRO:HD3	1.74	0.47
1:I:824:GLN:HG3	1:I:825:CYS:N	2.28	0.47
1:M:856:TYR:CD2	1:M:864:MET:CE	2.97	0.47
1:L:702:GLN:O	1:L:712:GLY:N	2.45	0.47
1:N:856:TYR:CD2	1:N:864:MET:CE	2.97	0.47
1:K:631:LEU:HD12	1:K:635:THR:O	2.14	0.47
1:M:126:THR:HA	1:M:182:ASN:O	2.14	0.47
1:B:377:LEU:HD22	1:B:708:TRP:CA	2.44	0.47
1:M:30:HIS:ND1	1:M:33:PHE:CE1	2.82	0.47
1:L:344:LEU:C	1:L:344:LEU:HD23	2.34	0.47
1:N:778:THR:HG22	1:N:887:GLN:H	1.79	0.47
1:E:1018:LEU:HA	1:E:1018:LEU:HD23	1.51	0.47
1:H:73:TRP:CH2	1:H:185:ALA:HB1	2.49	0.47
1:G:73:TRP:CH2	1:G:185:ALA:HB1	2.49	0.47
1:J:142:ILE:HG12	1:J:170:GLU:HG2	1.97	0.47
1:A:142:ILE:HG12	1:A:170:GLU:HG2	1.97	0.47
1:J:610:ASP:OD2	1:J:612:THR:HG23	2.15	0.47
1:O:610:ASP:OD2	1:O:612:THR:HG23	2.15	0.47
1:D:869:ASP:OD2	1:D:1015:HIS:ND1	2.33	0.47
1:A:88:SER:HA	1:A:366:VAL:HG21	1.97	0.47
1:H:802:ASP:OD1	1:H:803:PRO:HD2	2.13	0.47
1:L:875:ASP:OD2	1:L:875:ASP:N	2.47	0.47
1:F:93:HIS:HB3	1:F:95:TYR:CE1	2.49	0.47
1:N:93:HIS:HB3	1:N:95:TYR:CE1	2.50	0.47
1:B:433:LEU:HD12	1:B:433:LEU:O	2.13	0.47
1:F:740:LEU:HD13	1:F:749:ILE:CD1	2.45	0.47
1:C:745:MET:CE	1:C:745:MET:HA	2.44	0.47
1:C:746:ASP:HA	1:C:760:ARG:CG	2.39	0.47
1:H:317:THR:HG23	1:H:323:ILE:HD11	1.95	0.47
1:D:652:LEU:HB3	1:D:668:VAL:O	2.14	0.47
1:L:57:GLU:HG2	1:L:83:THR:HG21	1.93	0.47
1:F:579:ASP:OD1	1:F:583:ASN:N	2.43	0.47
1:L:253:TYR:N	1:L:253:TYR:CD2	2.82	0.47
1:K:66:PRO:CB	1:K:187:MET:HE1	2.45	0.47
1:M:66:PRO:CB	1:M:187:MET:HE1	2.45	0.47
1:J:66:PRO:CB	1:J:187:MET:HE1	2.44	0.47
1:A:824:GLN:HG3	1:A:825:CYS:N	2.28	0.47
1:O:663:LEU:HD23	1:O:663:LEU:N	2.24	0.47
1:K:661:LYS:HA	1:K:662:PRO:HD3	1.63	0.47
1:H:631:LEU:HD12	1:H:632:SER:H	1.79	0.47
1:O:631:LEU:HD12	1:O:635:THR:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:274:PHE:HB3	1:B:286:ALA:O	2.15	0.47
1:I:30:HIS:ND1	1:I:33:PHE:CE1	2.82	0.47
1:B:237:ARG:HB3	1:B:237:ARG:HH11	1.77	0.47
1:L:347:LYS:CB	1:L:348:PRO:HD2	2.43	0.47
1:D:271:THR:HG22	1:D:272:ALA:N	2.29	0.47
1:E:271:THR:HG22	1:E:272:ALA:N	2.29	0.47
1:K:86:VAL:HG13	1:K:87:PRO:HA	1.95	0.47
1:A:84:VAL:CG1	1:A:85:VAL:N	2.78	0.47
1:A:86:VAL:HG13	1:A:87:PRO:HA	1.95	0.47
1:H:1018:LEU:HD23	1:H:1018:LEU:HA	1.51	0.47
1:C:142:ILE:HG12	1:C:170:GLU:HG2	1.97	0.47
1:E:142:ILE:HG12	1:E:170:GLU:HG2	1.97	0.47
1:E:73:TRP:CZ2	1:E:122:CYS:HB3	2.50	0.47
1:L:612:THR:HB	1:L:613:PRO:HD2	1.96	0.47
1:D:142:ILE:HG12	1:D:170:GLU:HG2	1.97	0.47
1:A:610:ASP:OD2	1:A:612:THR:HG23	2.15	0.47
1:P:409:VAL:HG12	1:P:410:VAL:N	2.29	0.47
1:K:167:LEU:HB3	1:K:168:PRO:HD2	1.95	0.47
1:J:88:SER:HA	1:J:366:VAL:HG21	1.97	0.47
1:J:442:ARG:HA	1:J:445:GLN:HG3	1.96	0.47
1:D:442:ARG:HA	1:D:445:GLN:HG3	1.96	0.47
1:B:93:HIS:HB3	1:B:95:TYR:CE1	2.50	0.47
1:B:409:VAL:HG12	1:B:410:VAL:N	2.29	0.47
1:L:745:MET:HA	1:L:745:MET:CE	2.44	0.47
1:C:740:LEU:HD13	1:C:749:ILE:CD1	2.45	0.47
1:D:317:THR:HG23	1:D:323:ILE:HD11	1.95	0.47
1:J:579:ASP:OD1	1:J:583:ASN:N	2.43	0.47
1:G:651:LEU:HD13	1:G:651:LEU:HA	1.51	0.47
1:O:781:ARG:HH11	1:O:781:ARG:CG	2.19	0.47
1:J:948:PRO:O	1:J:1022:GLN:HA	2.14	0.47
1:B:66:PRO:HD2	1:B:67:GLU:OE2	2.14	0.47
1:A:682:LEU:HD23	1:A:682:LEU:HA	1.66	0.47
1:H:138:GLN:N	1:H:217:LYS:O	2.36	0.47
1:C:663:LEU:HD23	1:C:663:LEU:N	2.24	0.47
1:B:702:GLN:O	1:B:712:GLY:N	2.45	0.47
1:I:856:TYR:CD2	1:I:864:MET:CE	2.97	0.47
1:I:631:LEU:HD12	1:I:635:THR:O	2.14	0.47
1:A:282:ARG:HB3	1:D:421:VAL:HG22	1.95	0.47
1:K:129:VAL:CG2	1:K:182:ASN:ND2	2.77	0.47
1:K:856:TYR:CD2	1:K:864:MET:CE	2.97	0.47
1:M:274:PHE:HB3	1:M:286:ALA:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:469:ASP:HB3	1:G:473:ARG:HD2	1.97	0.47
1:G:86:VAL:HG13	1:G:87:PRO:HA	1.95	0.47
1:B:86:VAL:HG13	1:B:87:PRO:HA	1.96	0.47
1:M:73:TRP:CZ2	1:M:122:CYS:HB3	2.50	0.47
1:I:142:ILE:HG12	1:I:170:GLU:HG2	1.97	0.47
1:M:142:ILE:HG12	1:M:170:GLU:HG2	1.97	0.47
1:D:73:TRP:CZ2	1:D:122:CYS:HB3	2.50	0.47
1:C:73:TRP:CZ2	1:C:122:CYS:HB3	2.50	0.47
1:H:142:ILE:HG12	1:H:170:GLU:HG2	1.96	0.47
1:L:610:ASP:OD2	1:L:612:THR:HG23	2.15	0.47
1:A:73:TRP:CZ2	1:A:122:CYS:HB3	2.50	0.47
1:N:142:ILE:HG12	1:N:170:GLU:HG2	1.97	0.47
1:M:88:SER:HA	1:M:366:VAL:HG21	1.97	0.47
1:J:93:HIS:HB3	1:J:95:TYR:CE1	2.50	0.47
1:E:147:ASN:HA	1:E:148:SER:HA	1.54	0.47
1:D:167:LEU:HB3	1:D:168:PRO:HD2	1.96	0.47
1:L:757:GLN:O	1:L:757:GLN:HG2	2.12	0.47
1:A:93:HIS:HB3	1:A:95:TYR:CE1	2.49	0.47
1:J:742:THR:CG2	1:J:743:SER:H	2.27	0.47
1:H:746:ASP:HA	1:H:760:ARG:CG	2.39	0.47
1:O:745:MET:CE	1:O:745:MET:HA	2.44	0.47
1:I:436:MET:HE1	1:I:467:ASN:HD22	1.77	0.47
1:G:745:MET:HA	1:G:745:MET:CE	2.44	0.47
1:H:436:MET:HE1	1:H:467:ASN:HD22	1.76	0.47
1:G:57:GLU:HG2	1:G:83:THR:HG21	1.94	0.47
1:A:317:THR:HG23	1:A:323:ILE:HD11	1.95	0.47
1:L:1020:TRP:CD1	1:L:1021:CME:N	2.80	0.47
1:M:948:PRO:O	1:M:1022:GLN:HA	2.14	0.47
1:O:253:TYR:CD2	1:O:253:TYR:N	2.82	0.47
1:H:948:PRO:O	1:H:1022:GLN:HA	2.14	0.47
1:D:66:PRO:HD2	1:D:67:GLU:OE2	2.14	0.47
1:E:682:LEU:HD23	1:E:682:LEU:HA	1.67	0.47
1:A:24:LEU:HD12	1:A:24:LEU:HA	1.62	0.47
1:I:433:LEU:O	1:I:433:LEU:HD12	2.13	0.47
1:E:260:LEU:HA	1:E:260:LEU:HD12	1.61	0.47
1:A:631:LEU:HD12	1:A:632:SER:H	1.78	0.47
1:P:856:TYR:CD2	1:P:864:MET:CE	2.97	0.47
1:F:126:THR:HA	1:F:182:ASN:O	2.14	0.47
1:G:126:THR:HA	1:G:182:ASN:O	2.14	0.47
1:J:30:HIS:ND1	1:J:33:PHE:CE1	2.82	0.47
1:E:274:PHE:HB3	1:E:286:ALA:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:274:PHE:HB3	1:I:286:ALA:O	2.15	0.47
1:I:377:LEU:HD22	1:I:708:TRP:CA	2.44	0.47
1:B:30:HIS:ND1	1:B:33:PHE:CE1	2.82	0.47
1:H:30:HIS:ND1	1:H:33:PHE:CE1	2.82	0.47
1:J:469:ASP:HB3	1:K:473:ARG:HD2	1.95	0.47
1:C:778:THR:HG22	1:C:887:GLN:H	1.79	0.47
1:H:271:THR:HG22	1:H:272:ALA:N	2.29	0.47
1:C:84:VAL:CG1	1:C:85:VAL:N	2.77	0.47
1:P:142:ILE:HG12	1:P:170:GLU:HG2	1.97	0.47
1:E:610:ASP:OD2	1:E:612:THR:HG23	2.15	0.47
1:G:167:LEU:HB3	1:G:168:PRO:HD2	1.95	0.47
1:I:93:HIS:HB3	1:I:95:TYR:CE1	2.49	0.47
1:O:167:LEU:HB3	1:O:168:PRO:HD2	1.95	0.47
1:P:802:ASP:OD1	1:P:803:PRO:HD2	2.14	0.47
1:P:531:ARG:O	1:P:561:ARG:NH1	2.46	0.47
1:I:694:LEU:HA	1:I:694:LEU:HD12	1.69	0.47
1:O:88:SER:HA	1:O:366:VAL:HG21	1.96	0.47
1:H:742:THR:CG2	1:H:743:SER:H	2.27	0.47
1:H:745:MET:HA	1:H:745:MET:CE	2.43	0.47
1:L:740:LEU:HD13	1:L:749:ILE:CD1	2.45	0.47
1:F:749:ILE:N	1:F:749:ILE:CD1	2.78	0.47
1:P:740:LEU:HD13	1:P:749:ILE:CD1	2.45	0.47
1:P:745:MET:HA	1:P:745:MET:CE	2.44	0.47
1:P:746:ASP:HA	1:P:760:ARG:CG	2.39	0.47
1:A:651:LEU:HA	1:A:651:LEU:HD13	1.51	0.47
1:P:92:MET:HE3	1:P:362:LEU:O	2.15	0.47
1:N:579:ASP:OD1	1:N:583:ASN:N	2.43	0.47
1:O:1021:CME:HE2	1:O:1021:CME:HB3	1.41	0.47
1:B:948:PRO:O	1:B:1022:GLN:HA	2.15	0.47
1:E:948:PRO:O	1:E:1022:GLN:HA	2.14	0.47
1:G:1021:CME:HB3	1:G:1021:CME:HE2	1.41	0.47
1:P:230:ARG:HH11	1:P:230:ARG:CG	2.24	0.47
1:G:66:PRO:HD2	1:G:67:GLU:OE2	2.14	0.47
1:O:66:PRO:HD2	1:O:67:GLU:OE2	2.14	0.47
1:D:824:GLN:HG3	1:D:825:CYS:N	2.28	0.47
1:G:824:GLN:O	1:G:838:THR:HA	2.13	0.47
1:P:66:PRO:CB	1:P:187:MET:HE1	2.45	0.47
1:N:395:HIS:HA	1:N:396:PRO:HD3	1.48	0.47
1:C:856:TYR:CD2	1:C:864:MET:CE	2.97	0.47
1:O:260:LEU:HA	1:O:260:LEU:HD12	1.61	0.47
1:G:260:LEU:HA	1:G:260:LEU:HD12	1.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:663:LEU:N	1:M:663:LEU:HD23	2.24	0.47
1:C:702:GLN:O	1:C:712:GLY:N	2.45	0.47
1:E:631:LEU:HD12	1:E:635:THR:O	2.14	0.47
1:L:631:LEU:HD12	1:L:632:SER:H	1.78	0.47
1:C:77:ASP:O	1:C:78:LEU:HD23	2.15	0.47
1:B:126:THR:HA	1:B:182:ASN:O	2.14	0.47
1:E:77:ASP:O	1:E:78:LEU:HD23	2.15	0.47
1:M:77:ASP:O	1:M:78:LEU:HD23	2.15	0.47
1:C:126:THR:HA	1:C:182:ASN:O	2.14	0.47
1:N:673:ALA:O	1:N:674:PRO:C	2.51	0.47
1:G:377:LEU:HD22	1:G:708:TRP:CA	2.44	0.47
1:O:377:LEU:HD22	1:O:708:TRP:CA	2.44	0.47
1:J:377:LEU:HD22	1:J:708:TRP:CA	2.44	0.47
1:N:274:PHE:HB3	1:N:286:ALA:O	2.15	0.47
1:P:30:HIS:ND1	1:P:33:PHE:CE1	2.82	0.47
1:I:473:ARG:HD2	1:L:469:ASP:HB3	1.96	0.47
1:K:778:THR:HG22	1:K:887:GLN:H	1.79	0.47
1:L:778:THR:HG22	1:L:887:GLN:H	1.79	0.47
1:I:271:THR:HG22	1:I:272:ALA:N	2.29	0.47
1:G:271:THR:HG22	1:G:272:ALA:N	2.29	0.47
1:H:778:THR:HG22	1:H:887:GLN:H	1.79	0.47
1:O:778:THR:HG22	1:O:887:GLN:H	1.79	0.47
1:M:84:VAL:CG1	1:M:85:VAL:N	2.78	0.47
1:J:86:VAL:HG13	1:J:87:PRO:HA	1.96	0.47
1:L:84:VAL:CG1	1:L:85:VAL:N	2.77	0.47
1:O:86:VAL:HG13	1:O:87:PRO:HA	1.96	0.47
1:P:84:VAL:CG1	1:P:85:VAL:N	2.78	0.47
1:F:142:ILE:HG12	1:F:170:GLU:HG2	1.97	0.47
1:P:73:TRP:CZ2	1:P:122:CYS:HB3	2.50	0.47
1:G:73:TRP:CZ2	1:G:122:CYS:HB3	2.50	0.47
1:O:73:TRP:CZ2	1:O:122:CYS:HB3	2.50	0.47
1:B:73:TRP:CZ2	1:B:122:CYS:HB3	2.50	0.47
1:B:610:ASP:OD2	1:B:612:THR:HG23	2.15	0.47
1:G:610:ASP:OD2	1:G:612:THR:HG23	2.15	0.47
1:K:608:PHE:O	1:K:611:ARG:N	2.41	0.47
1:B:930:VAL:HA	1:B:973:ARG:HD3	1.97	0.47
1:C:445:GLN:HE21	1:C:445:GLN:HB3	1.54	0.47
1:C:93:HIS:HB3	1:C:95:TYR:CE1	2.49	0.47
1:E:409:VAL:HG12	1:E:410:VAL:N	2.29	0.47
1:G:875:ASP:OD2	1:G:875:ASP:N	2.47	0.47
1:M:420:MET:HA	1:M:420:MET:HE3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:875:ASP:N	1:O:875:ASP:OD2	2.47	0.47
1:K:420:MET:HE3	1:K:420:MET:HA	1.97	0.47
1:M:409:VAL:HG12	1:M:410:VAL:N	2.29	0.47
1:D:646:HIS:O	1:D:648:ASP:N	2.47	0.47
1:E:88:SER:HA	1:E:366:VAL:HG21	1.97	0.47
1:M:646:HIS:O	1:M:648:ASP:N	2.47	0.47
1:P:93:HIS:HB3	1:P:95:TYR:CE1	2.50	0.47
1:P:147:ASN:HA	1:P:148:SER:HA	1.54	0.47
1:K:88:SER:HA	1:K:366:VAL:HG21	1.97	0.47
1:G:88:SER:HA	1:G:366:VAL:HG21	1.97	0.47
1:B:875:ASP:N	1:B:875:ASP:OD2	2.47	0.47
1:A:409:VAL:HG12	1:A:410:VAL:N	2.29	0.47
1:B:878:HIS:HA	1:B:879:PRO:HD3	1.66	0.47
1:N:409:VAL:HG12	1:N:410:VAL:N	2.29	0.47
1:H:391:HIS:ND1	1:H:412:GLU:OE1	2.44	0.47
1:N:740:LEU:HD13	1:N:749:ILE:CD1	2.45	0.47
1:J:740:LEU:HD13	1:J:749:ILE:CD1	2.45	0.47
1:E:749:ILE:N	1:E:749:ILE:CD1	2.78	0.47
1:B:1020:TRP:CD1	1:B:1021:CME:N	2.80	0.47
1:M:253:TYR:CD2	1:M:253:TYR:N	2.82	0.47
1:K:948:PRO:O	1:K:1022:GLN:HA	2.14	0.47
1:I:66:PRO:CB	1:I:187:MET:HE1	2.45	0.47
1:N:66:PRO:CB	1:N:187:MET:HE1	2.45	0.47
1:H:66:PRO:CB	1:H:187:MET:HE1	2.45	0.47
1:J:66:PRO:HD2	1:J:67:GLU:OE2	2.14	0.47
1:G:654:TRP:O	1:G:655:MET:HB3	2.15	0.47
1:E:631:LEU:HD12	1:E:632:SER:H	1.78	0.47
1:P:278:ILE:CD1	1:P:278:ILE:N	2.78	0.47
1:M:631:LEU:HD12	1:M:635:THR:O	2.14	0.47
1:C:631:LEU:HD12	1:C:635:THR:O	2.14	0.47
1:H:278:ILE:CD1	1:H:278:ILE:N	2.78	0.47
1:K:77:ASP:O	1:K:78:LEU:HD23	2.15	0.47
1:E:278:ILE:CD1	1:E:278:ILE:N	2.78	0.47
1:O:79:PRO:HG2	1:O:80:GLU:OE2	2.13	0.47
1:N:129:VAL:CG2	1:N:182:ASN:ND2	2.77	0.47
1:B:77:ASP:O	1:B:78:LEU:HD23	2.15	0.47
1:P:274:PHE:HB3	1:P:286:ALA:O	2.15	0.47
1:O:274:PHE:HB3	1:O:286:ALA:O	2.15	0.47
1:I:347:LYS:CB	1:I:348:PRO:HD2	2.43	0.47
1:C:579:ASP:OD1	1:C:583:ASN:N	2.43	0.47
1:E:599:ARG:HB2	1:E:600:GLN:H	1.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:271:THR:HG22	1:O:272:ALA:N	2.29	0.47
1:M:271:THR:HG22	1:M:272:ALA:N	2.29	0.47
1:K:271:THR:HG22	1:K:272:ALA:N	2.29	0.47
1:L:142:ILE:HG12	1:L:170:GLU:HG2	1.97	0.47
1:H:73:TRP:CZ2	1:H:122:CYS:HB3	2.50	0.47
1:N:73:TRP:CZ2	1:N:122:CYS:HB3	2.50	0.47
1:B:73:TRP:CH2	1:B:185:ALA:HB1	2.49	0.47
1:K:142:ILE:HG12	1:K:170:GLU:HG2	1.97	0.47
1:G:608:PHE:O	1:G:611:ARG:N	2.41	0.47
1:K:612:THR:HB	1:K:613:PRO:HD2	1.95	0.47
1:F:610:ASP:OD2	1:F:612:THR:HG23	2.14	0.47
1:I:612:THR:HB	1:I:613:PRO:HD2	1.96	0.47
1:C:930:VAL:HA	1:C:973:ARG:HD3	1.97	0.47
1:J:942:ARG:HA	1:J:953:GLY:O	2.15	0.47
1:E:93:HIS:HB3	1:E:95:TYR:CE1	2.49	0.47
1:L:93:HIS:HB3	1:L:95:TYR:CE1	2.49	0.47
1:J:875:ASP:OD2	1:J:875:ASP:N	2.47	0.47
1:H:378:LEU:HA	1:H:378:LEU:HD23	1.53	0.47
1:E:646:HIS:O	1:E:648:ASP:N	2.48	0.47
1:F:409:VAL:HG12	1:F:410:VAL:N	2.29	0.47
1:L:749:ILE:N	1:L:749:ILE:CD1	2.78	0.47
1:D:745:MET:HA	1:D:745:MET:CE	2.44	0.47
1:H:740:LEU:HD13	1:H:749:ILE:CD1	2.45	0.47
1:O:740:LEU:HD13	1:O:749:ILE:CD1	2.45	0.47
1:I:740:LEU:HD13	1:I:749:ILE:CD1	2.45	0.47
1:M:740:LEU:HD13	1:M:749:ILE:CD1	2.45	0.47
1:O:579:ASP:N	1:O:583:ASN:O	2.40	0.47
1:L:948:PRO:O	1:L:1022:GLN:HA	2.14	0.47
1:E:253:TYR:CD2	1:E:253:TYR:N	2.82	0.47
1:D:948:PRO:O	1:D:1022:GLN:HA	2.15	0.47
1:I:66:PRO:HD2	1:I:67:GLU:OE2	2.14	0.47
1:C:66:PRO:HD2	1:C:67:GLU:OE2	2.14	0.47
1:L:66:PRO:CB	1:L:187:MET:HE1	2.45	0.47
1:O:654:TRP:O	1:O:655:MET:HB3	2.15	0.47
1:B:210:ARG:NH1	1:B:395:HIS:CA	2.78	0.47
1:L:210:ARG:NH1	1:L:395:HIS:CA	2.78	0.47
1:M:210:ARG:NH1	1:M:395:HIS:CA	2.78	0.47
1:K:210:ARG:NH1	1:K:395:HIS:CA	2.78	0.47
1:L:433:LEU:HD12	1:L:433:LEU:O	2.13	0.47
1:B:631:LEU:HD12	1:B:632:SER:H	1.79	0.47
1:P:631:LEU:HD12	1:P:635:THR:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:78:LEU:CB	1:I:79:PRO:HD2	2.44	0.47
1:D:77:ASP:O	1:D:78:LEU:HD23	2.15	0.47
1:F:631:LEU:HD12	1:F:635:THR:O	2.14	0.47
1:O:77:ASP:O	1:O:78:LEU:HD23	2.15	0.47
1:B:129:VAL:CG2	1:B:182:ASN:ND2	2.77	0.47
1:J:126:THR:HA	1:J:182:ASN:O	2.14	0.47
1:F:673:ALA:O	1:F:674:PRO:C	2.51	0.47
1:G:274:PHE:HB3	1:G:286:ALA:O	2.15	0.47
1:D:274:PHE:HB3	1:D:286:ALA:O	2.15	0.47
1:D:377:LEU:HD22	1:D:708:TRP:CA	2.44	0.47
1:A:599:ARG:HB2	1:A:600:GLN:H	1.40	0.47
1:B:84:VAL:CG1	1:B:85:VAL:N	2.78	0.47
1:J:73:TRP:CZ2	1:J:122:CYS:HB3	2.50	0.47
1:F:73:TRP:CZ2	1:F:122:CYS:HB3	2.50	0.47
1:L:73:TRP:CZ2	1:L:122:CYS:HB3	2.50	0.47
1:I:610:ASP:OD2	1:I:612:THR:HG23	2.15	0.47
1:K:930:VAL:HA	1:K:973:ARG:HD3	1.97	0.47
1:E:942:ARG:HA	1:E:953:GLY:O	2.15	0.47
1:H:88:SER:HA	1:H:366:VAL:HG21	1.97	0.47
1:F:942:ARG:HA	1:F:953:GLY:O	2.15	0.47
1:M:942:ARG:HA	1:M:953:GLY:O	2.15	0.47
1:J:531:ARG:O	1:J:561:ARG:NH1	2.46	0.47
1:C:875:ASP:N	1:C:875:ASP:OD2	2.47	0.47
1:F:757:GLN:HG2	1:F:757:GLN:O	2.12	0.47
1:E:420:MET:HE3	1:E:420:MET:HA	1.97	0.47
1:N:942:ARG:HA	1:N:953:GLY:O	2.15	0.47
1:G:93:HIS:HB3	1:G:95:TYR:CE1	2.49	0.47
1:K:679:LEU:HA	1:K:679:LEU:HD23	1.26	0.47
1:O:942:ARG:HA	1:O:953:GLY:O	2.15	0.47
1:G:942:ARG:HA	1:G:953:GLY:O	2.15	0.47
1:C:942:ARG:HA	1:C:953:GLY:O	2.15	0.47
1:K:646:HIS:O	1:K:648:ASP:N	2.47	0.47
1:I:742:THR:CG2	1:I:743:SER:H	2.27	0.47
1:K:745:MET:HA	1:K:745:MET:CE	2.44	0.47
1:E:745:MET:CE	1:E:745:MET:HA	2.43	0.47
1:D:740:LEU:HD13	1:D:749:ILE:CD1	2.45	0.47
1:G:742:THR:CG2	1:G:743:SER:H	2.27	0.47
1:F:652:LEU:HB3	1:F:668:VAL:O	2.14	0.47
1:J:57:GLU:HG2	1:J:83:THR:HG21	1.93	0.47
1:B:253:TYR:N	1:B:253:TYR:CD2	2.82	0.47
1:C:66:PRO:CB	1:C:187:MET:HE1	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:65:ALA:HB1	1:L:66:PRO:CD	2.39	0.47
1:G:66:PRO:CB	1:G:187:MET:HE1	2.45	0.47
1:O:66:PRO:CB	1:O:187:MET:HE1	2.45	0.47
1:F:654:TRP:O	1:F:655:MET:HB3	2.15	0.47
1:B:654:TRP:O	1:B:655:MET:HB3	2.15	0.47
1:O:210:ARG:NH1	1:O:395:HIS:CA	2.78	0.47
1:L:395:HIS:HA	1:L:396:PRO:HD3	1.48	0.47
1:C:260:LEU:HD12	1:C:260:LEU:HA	1.61	0.47
1:E:138:GLN:N	1:E:217:LYS:O	2.36	0.47
1:B:278:ILE:N	1:B:278:ILE:CD1	2.78	0.47
1:E:673:ALA:O	1:E:674:PRO:C	2.51	0.47
1:H:274:PHE:HB3	1:H:286:ALA:O	2.15	0.47
1:A:274:PHE:HB3	1:A:286:ALA:O	2.15	0.47
1:D:569:ASP:O	1:D:605:GLY:HA2	2.16	0.47
1:E:730:LEU:HA	1:E:731:PRO:HD3	1.74	0.47
1:M:581:ASN:N	1:M:581:ASN:OD1	2.44	0.47
1:F:84:VAL:CG1	1:F:85:VAL:N	2.78	0.47
1:E:84:VAL:CG1	1:E:85:VAL:N	2.78	0.47
1:E:403:ASP:OD2	1:E:450:HIS:ND1	2.34	0.47
1:I:86:VAL:HG13	1:I:87:PRO:HA	1.95	0.47
1:N:610:ASP:OD2	1:N:612:THR:HG23	2.15	0.47
1:N:930:VAL:HA	1:N:973:ARG:HD3	1.97	0.47
1:L:930:VAL:HA	1:L:973:ARG:HD3	1.97	0.47
1:L:88:SER:HA	1:L:366:VAL:HG21	1.97	0.47
1:O:93:HIS:HB3	1:O:95:TYR:CE1	2.50	0.47
1:A:442:ARG:HA	1:A:445:GLN:HG3	1.95	0.47
1:L:942:ARG:HA	1:L:953:GLY:O	2.15	0.47
1:K:875:ASP:N	1:K:875:ASP:OD2	2.47	0.47
1:I:118:ASN:HA	1:I:119:PRO:HD2	1.60	0.47
1:H:409:VAL:HG12	1:H:410:VAL:N	2.29	0.47
1:K:740:LEU:HD13	1:K:749:ILE:CD1	2.45	0.46
1:L:740:LEU:HD13	1:L:749:ILE:HD12	1.97	0.46
1:M:745:MET:CE	1:M:745:MET:HA	2.43	0.46
1:E:740:LEU:HD13	1:E:749:ILE:CD1	2.45	0.46
1:M:749:ILE:N	1:M:749:ILE:CD1	2.78	0.46
1:P:744:GLU:C	1:P:745:MET:HE3	2.35	0.46
1:N:652:LEU:HB3	1:N:668:VAL:O	2.14	0.46
1:I:316:HIS:HB2	1:I:321:THR:O	2.15	0.46
1:P:316:HIS:HB2	1:P:321:THR:O	2.15	0.46
1:M:576:ILE:CG2	1:M:577:LYS:N	2.78	0.46
1:C:316:HIS:HB2	1:C:321:THR:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:66:PRO:HD2	1:E:67:GLU:OE2	2.14	0.46
1:F:63:PHE:CB	1:F:64:PRO:HD2	2.32	0.46
1:L:682:LEU:HD23	1:L:682:LEU:HA	1.67	0.46
1:K:654:TRP:O	1:K:655:MET:HB3	2.15	0.46
1:M:654:TRP:O	1:M:655:MET:HB3	2.15	0.46
1:J:210:ARG:NH1	1:J:395:HIS:CA	2.78	0.46
1:H:210:ARG:NH1	1:H:395:HIS:CA	2.78	0.46
1:L:654:TRP:O	1:L:655:MET:HB3	2.15	0.46
1:I:702:GLN:O	1:I:712:GLY:N	2.45	0.46
1:H:702:GLN:O	1:H:712:GLY:N	2.45	0.46
1:G:702:GLN:O	1:G:712:GLY:N	2.45	0.46
1:K:126:THR:HA	1:K:182:ASN:O	2.14	0.46
1:I:129:VAL:CG2	1:I:182:ASN:ND2	2.77	0.46
1:J:274:PHE:HB3	1:J:286:ALA:O	2.15	0.46
1:A:30:HIS:ND1	1:A:33:PHE:CE1	2.82	0.46
1:K:569:ASP:O	1:K:605:GLY:HA2	2.15	0.46
1:M:569:ASP:O	1:M:605:GLY:HA2	2.16	0.46
1:J:84:VAL:CG1	1:J:85:VAL:N	2.77	0.46
1:M:610:ASP:OD2	1:M:612:THR:HG23	2.15	0.46
1:B:142:ILE:HG12	1:B:170:GLU:HG2	1.97	0.46
1:C:610:ASP:OD2	1:C:612:THR:HG23	2.15	0.46
1:P:610:ASP:OD2	1:P:612:THR:HG23	2.15	0.46
1:F:930:VAL:HA	1:F:973:ARG:HD3	1.97	0.46
1:I:409:VAL:HG12	1:I:410:VAL:N	2.29	0.46
1:M:442:ARG:HA	1:M:445:GLN:HG3	1.96	0.46
1:L:646:HIS:O	1:L:648:ASP:N	2.47	0.46
1:G:830:LEU:CD1	1:G:830:LEU:N	2.78	0.46
1:K:93:HIS:HB3	1:K:95:TYR:CE1	2.50	0.46
1:P:942:ARG:HA	1:P:953:GLY:O	2.15	0.46
1:J:740:LEU:HD13	1:J:749:ILE:HD12	1.97	0.46
1:B:740:LEU:HD13	1:B:749:ILE:CD1	2.45	0.46
1:O:316:HIS:HB2	1:O:321:THR:O	2.16	0.46
1:G:316:HIS:HB2	1:G:321:THR:O	2.15	0.46
1:C:652:LEU:HB3	1:C:668:VAL:O	2.14	0.46
1:M:316:HIS:HB2	1:M:321:THR:O	2.15	0.46
1:I:579:ASP:OD1	1:I:583:ASN:N	2.43	0.46
1:G:576:ILE:CG2	1:G:577:LYS:N	2.78	0.46
1:O:63:PHE:CB	1:O:64:PRO:HD2	2.32	0.46
1:K:702:GLN:O	1:K:712:GLY:N	2.45	0.46
1:L:631:LEU:HD12	1:L:635:THR:O	2.14	0.46
1:P:126:THR:HA	1:P:182:ASN:O	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:274:PHE:HB3	1:F:286:ALA:O	2.15	0.46
1:B:347:LYS:CB	1:B:348:PRO:HD2	2.43	0.46
1:F:569:ASP:O	1:F:605:GLY:HA2	2.15	0.46
1:F:599:ARG:HB2	1:F:600:GLN:H	1.40	0.46
1:L:569:ASP:O	1:L:605:GLY:HA2	2.15	0.46
1:J:569:ASP:O	1:J:605:GLY:HA2	2.15	0.46
1:H:13:ARG:O	1:H:14:ARG:HB2	2.16	0.46
1:N:271:THR:HG22	1:N:272:ALA:N	2.29	0.46
1:E:581:ASN:OD1	1:E:581:ASN:N	2.44	0.46
1:O:84:VAL:CG1	1:O:85:VAL:N	2.77	0.46
1:K:73:TRP:CZ2	1:K:122:CYS:HB3	2.50	0.46
1:I:608:PHE:O	1:I:611:ARG:N	2.41	0.46
1:O:445:GLN:HE21	1:O:445:GLN:HB3	1.54	0.46
1:F:88:SER:HA	1:F:366:VAL:HG21	1.97	0.46
1:O:830:LEU:N	1:O:830:LEU:CD1	2.78	0.46
1:C:409:VAL:HG12	1:C:410:VAL:N	2.29	0.46
1:L:486:TYR:CZ	1:L:488:GLY:HA3	2.51	0.46
1:D:93:HIS:HB3	1:D:95:TYR:CE1	2.49	0.46
1:K:147:ASN:HA	1:K:148:SER:HA	1.55	0.46
1:J:147:ASN:HA	1:J:148:SER:HA	1.54	0.46
1:N:88:SER:HA	1:N:366:VAL:HG21	1.97	0.46
1:K:878:HIS:HA	1:K:879:PRO:HD3	1.66	0.46
1:N:830:LEU:CD1	1:N:830:LEU:N	2.78	0.46
1:H:100:TYR:HB2	1:H:203:TRP:CE3	2.51	0.46
1:I:875:ASP:N	1:I:875:ASP:OD2	2.47	0.46
1:L:378:LEU:HA	1:L:378:LEU:HD23	1.53	0.46
1:J:830:LEU:CD1	1:J:830:LEU:N	2.78	0.46
1:M:93:HIS:HB3	1:M:95:TYR:CE1	2.50	0.46
1:O:100:TYR:HB2	1:O:203:TRP:CE3	2.51	0.46
1:I:746:ASP:HA	1:I:760:ARG:CG	2.39	0.46
1:K:740:LEU:HD13	1:K:749:ILE:HD12	1.97	0.46
1:B:436:MET:HE1	1:B:467:ASN:HD22	1.79	0.46
1:A:740:LEU:HD13	1:A:749:ILE:CD1	2.45	0.46
1:E:436:MET:HE1	1:E:467:ASN:HD22	1.76	0.46
1:B:316:HIS:HB2	1:B:321:THR:O	2.16	0.46
1:H:316:HIS:HB2	1:H:321:THR:O	2.16	0.46
1:H:253:TYR:N	1:H:253:TYR:CD2	2.82	0.46
1:G:63:PHE:CB	1:G:64:PRO:HD2	2.32	0.46
1:I:230:ARG:CG	1:I:230:ARG:HH11	2.24	0.46
1:F:66:PRO:CB	1:F:187:MET:HE1	2.45	0.46
1:A:63:PHE:CB	1:A:64:PRO:HD2	2.32	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:210:ARG:NH1	1:F:395:HIS:CA	2.78	0.46
1:N:210:ARG:NH1	1:N:395:HIS:CA	2.78	0.46
1:G:210:ARG:NH1	1:G:395:HIS:CA	2.78	0.46
1:C:654:TRP:O	1:C:655:MET:HB3	2.15	0.46
1:F:260:LEU:HA	1:F:260:LEU:HD12	1.61	0.46
1:G:37:ARG:CG	1:G:37:ARG:NH1	2.79	0.46
1:K:278:ILE:N	1:K:278:ILE:CD1	2.78	0.46
1:G:278:ILE:N	1:G:278:ILE:CD1	2.78	0.46
1:N:631:LEU:HD12	1:N:635:THR:O	2.14	0.46
1:G:77:ASP:O	1:G:78:LEU:HD23	2.15	0.46
1:J:129:VAL:CG2	1:J:182:ASN:ND2	2.77	0.46
1:L:274:PHE:HB3	1:L:286:ALA:O	2.15	0.46
1:P:13:ARG:O	1:P:14:ARG:HB2	2.16	0.46
1:D:778:THR:HG22	1:D:887:GLN:H	1.79	0.46
1:K:84:VAL:CG1	1:K:85:VAL:N	2.78	0.46
1:G:142:ILE:HG12	1:G:170:GLU:HG2	1.97	0.46
1:I:930:VAL:HA	1:I:973:ARG:HD3	1.97	0.46
1:G:930:VAL:HA	1:G:973:ARG:HD3	1.97	0.46
1:O:930:VAL:HA	1:O:973:ARG:HD3	1.97	0.46
1:F:830:LEU:CD1	1:F:830:LEU:N	2.78	0.46
1:D:942:ARG:HA	1:D:953:GLY:O	2.15	0.46
1:E:111:PRO:HA	1:E:112:PRO:HA	1.58	0.46
1:D:409:VAL:HG12	1:D:410:VAL:N	2.29	0.46
1:F:100:TYR:HB2	1:F:203:TRP:CE3	2.51	0.46
1:M:100:TYR:HB2	1:M:203:TRP:CE3	2.51	0.46
1:H:646:HIS:O	1:H:648:ASP:N	2.47	0.46
1:G:409:VAL:HG12	1:G:410:VAL:N	2.29	0.46
1:K:743:SER:O	1:K:760:ARG:NH1	2.49	0.46
1:P:740:LEU:HD13	1:P:749:ILE:HD12	1.97	0.46
1:B:740:LEU:HD13	1:B:749:ILE:HD12	1.97	0.46
1:D:316:HIS:HB2	1:D:321:THR:O	2.16	0.46
1:F:316:HIS:HB2	1:F:321:THR:O	2.15	0.46
1:K:316:HIS:HB2	1:K:321:THR:O	2.16	0.46
1:N:781:ARG:O	1:N:884:LEU:HA	2.16	0.46
1:H:655:MET:HE3	1:H:655:MET:HB2	1.92	0.46
1:O:37:ARG:NH1	1:O:37:ARG:CG	2.79	0.46
1:L:856:TYR:HD2	1:L:864:MET:CE	2.25	0.46
1:H:631:LEU:HD12	1:H:635:THR:O	2.14	0.46
1:M:631:LEU:HD12	1:M:632:SER:H	1.78	0.46
1:P:129:VAL:CG2	1:P:182:ASN:ND2	2.77	0.46
1:P:377:LEU:HD22	1:P:708:TRP:CA	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:13:ARG:O	1:A:14:ARG:HB2	2.16	0.46
1:O:429:ASP:HA	1:O:430:PRO:HD3	1.51	0.46
1:E:974:HIS:C	1:E:975:LEU:HD23	2.36	0.46
1:O:142:ILE:HG12	1:O:170:GLU:HG2	1.97	0.46
1:N:608:PHE:O	1:N:611:ARG:N	2.41	0.46
1:J:930:VAL:HA	1:J:973:ARG:HD3	1.97	0.46
1:J:100:TYR:HB2	1:J:203:TRP:CE3	2.51	0.46
1:D:100:TYR:HB2	1:D:203:TRP:CE3	2.51	0.46
1:O:409:VAL:HG12	1:O:410:VAL:N	2.29	0.46
1:O:147:ASN:HA	1:O:148:SER:HA	1.54	0.46
1:P:88:SER:HA	1:P:366:VAL:HG21	1.97	0.46
1:O:339:ASN:O	1:P:527:PRO:HB3	2.15	0.46
1:P:391:HIS:ND1	1:P:412:GLU:OE1	2.44	0.46
1:A:646:HIS:O	1:A:648:ASP:N	2.47	0.46
1:E:391:HIS:ND1	1:E:412:GLU:OE1	2.44	0.46
1:A:942:ARG:HA	1:A:953:GLY:O	2.15	0.46
1:E:378:LEU:HD23	1:E:378:LEU:HA	1.53	0.46
1:I:100:TYR:HB2	1:I:203:TRP:CE3	2.51	0.46
1:G:740:LEU:HD13	1:G:749:ILE:CD1	2.45	0.46
1:L:743:SER:O	1:L:760:ARG:NH1	2.49	0.46
1:N:316:HIS:HB2	1:N:321:THR:O	2.16	0.46
1:O:576:ILE:CG2	1:O:577:LYS:N	2.78	0.46
1:E:781:ARG:O	1:E:884:LEU:HA	2.16	0.46
1:H:781:ARG:O	1:H:884:LEU:HA	2.16	0.46
1:P:781:ARG:O	1:P:884:LEU:HA	2.16	0.46
1:D:67:GLU:HG2	1:D:67:GLU:H	1.30	0.46
1:P:37:ARG:CG	1:P:37:ARG:NH1	2.79	0.46
1:K:395:HIS:HA	1:K:396:PRO:HD3	1.48	0.46
1:J:260:LEU:HD12	1:J:260:LEU:HA	1.61	0.46
1:P:702:GLN:O	1:P:712:GLY:N	2.45	0.46
1:N:856:TYR:HD2	1:N:864:MET:CE	2.25	0.46
1:D:856:TYR:HD2	1:D:864:MET:CE	2.25	0.46
1:I:77:ASP:O	1:I:78:LEU:HD23	2.15	0.46
1:N:78:LEU:CB	1:N:79:PRO:HD2	2.44	0.46
1:M:900:LEU:HA	1:M:900:LEU:HD23	1.75	0.46
1:K:377:LEU:HD22	1:K:708:TRP:CA	2.44	0.46
1:C:274:PHE:HB3	1:C:286:ALA:O	2.15	0.46
1:C:377:LEU:HD22	1:C:708:TRP:CA	2.44	0.46
1:N:569:ASP:O	1:N:605:GLY:HA2	2.15	0.46
1:H:599:ARG:HB2	1:H:600:GLN:H	1.41	0.46
1:D:579:ASP:OD1	1:D:583:ASN:N	2.43	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:569:ASP:O	1:I:605:GLY:HA2	2.15	0.46
1:N:599:ARG:HB2	1:N:600:GLN:H	1.41	0.46
1:O:13:ARG:O	1:O:14:ARG:HB2	2.15	0.46
1:B:974:HIS:C	1:B:975:LEU:HD23	2.36	0.46
1:G:974:HIS:C	1:G:975:LEU:HD23	2.36	0.46
1:J:512:PHE:CE1	1:J:517:LYS:HG3	2.51	0.46
1:P:930:VAL:HA	1:P:973:ARG:HD3	1.97	0.46
1:M:930:VAL:HA	1:M:973:ARG:HD3	1.97	0.46
1:K:486:TYR:CZ	1:K:488:GLY:HA3	2.51	0.46
1:E:100:TYR:HB2	1:E:203:TRP:CE3	2.51	0.46
1:K:99:ILE:HG23	1:K:594:ASP:HB2	1.98	0.46
1:K:400:THR:O	1:K:404:ARG:HD2	2.16	0.46
1:L:400:THR:O	1:L:404:ARG:HD2	2.16	0.46
1:F:726:LEU:HD23	1:F:726:LEU:HA	1.65	0.46
1:J:670:LEU:HD23	1:J:670:LEU:HA	1.67	0.46
1:B:942:ARG:HA	1:B:953:GLY:O	2.15	0.46
1:H:740:LEU:HD13	1:H:749:ILE:HD12	1.97	0.46
1:G:743:SER:O	1:G:760:ARG:NH1	2.49	0.46
1:P:743:SER:O	1:P:760:ARG:NH1	2.49	0.46
1:C:743:SER:O	1:C:760:ARG:NH1	2.49	0.46
1:B:576:ILE:CG2	1:B:577:LYS:N	2.78	0.46
1:J:316:HIS:HB2	1:J:321:THR:O	2.16	0.46
1:K:781:ARG:O	1:K:884:LEU:HA	2.16	0.46
1:P:948:PRO:O	1:P:1022:GLN:HA	2.14	0.46
1:L:37:ARG:NH1	1:L:37:ARG:CG	2.79	0.46
1:H:37:ARG:NH1	1:H:37:ARG:CG	2.79	0.46
1:H:661:LYS:HA	1:H:662:PRO:HD3	1.63	0.46
1:E:702:GLN:HA	1:E:703:PRO:HD2	1.84	0.46
1:L:856:TYR:CD2	1:L:864:MET:CE	2.97	0.46
1:C:129:VAL:CG2	1:C:182:ASN:ND2	2.77	0.46
1:E:419:GLY:HA2	1:H:282:ARG:NH1	2.30	0.46
1:K:274:PHE:HB3	1:K:286:ALA:O	2.15	0.46
1:F:282:ARG:HD3	1:G:418:HIS:O	2.15	0.46
1:O:569:ASP:O	1:O:605:GLY:HA2	2.15	0.46
1:D:13:ARG:O	1:D:14:ARG:HB2	2.16	0.46
1:O:974:HIS:C	1:O:975:LEU:HD23	2.36	0.46
1:K:610:ASP:OD2	1:K:612:THR:HG23	2.15	0.46
1:I:612:THR:HA	1:I:613:PRO:HD3	1.68	0.46
1:H:930:VAL:HA	1:H:973:ARG:HD3	1.97	0.46
1:C:99:ILE:HG23	1:C:594:ASP:HB2	1.98	0.46
1:C:400:THR:O	1:C:404:ARG:HD2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:99:ILE:HG23	1:J:594:ASP:HB2	1.98	0.46
1:I:147:ASN:HA	1:I:148:SER:HA	1.55	0.46
1:J:400:THR:O	1:J:404:ARG:HD2	2.16	0.46
1:L:118:ASN:HA	1:L:119:PRO:HD2	1.60	0.46
1:B:830:LEU:N	1:B:830:LEU:CD1	2.78	0.46
1:G:486:TYR:CZ	1:G:488:GLY:HA3	2.51	0.46
1:L:409:VAL:HG12	1:L:410:VAL:N	2.29	0.46
1:I:646:HIS:O	1:I:648:ASP:N	2.47	0.46
1:J:772:ASP:OD1	1:J:772:ASP:N	2.30	0.46
1:I:420:MET:HE3	1:I:420:MET:HA	1.97	0.46
1:N:486:TYR:CZ	1:N:488:GLY:HA3	2.51	0.46
1:E:442:ARG:HA	1:E:445:GLN:HG3	1.95	0.46
1:C:486:TYR:CZ	1:C:488:GLY:HA3	2.51	0.46
1:H:99:ILE:HG23	1:H:594:ASP:HB2	1.98	0.46
1:J:486:TYR:CZ	1:J:488:GLY:HA3	2.51	0.46
1:D:486:TYR:CZ	1:D:488:GLY:HA3	2.51	0.46
1:L:744:GLU:C	1:L:745:MET:HE3	2.36	0.46
1:E:740:LEU:HD13	1:E:749:ILE:HD12	1.97	0.46
1:P:742:THR:CG2	1:P:743:SER:H	2.27	0.46
1:J:576:ILE:CG2	1:J:577:LYS:N	2.78	0.46
1:I:1020:TRP:CD1	1:I:1021:CME:N	2.80	0.46
1:M:781:ARG:O	1:M:884:LEU:HA	2.16	0.46
1:A:1021:CME:HE2	1:A:1021:CME:HB3	1.41	0.46
1:N:230:ARG:CG	1:N:230:ARG:HH11	2.24	0.46
1:B:66:PRO:CB	1:B:187:MET:HE1	2.45	0.46
1:B:254:LEU:HD23	1:B:254:LEU:HA	1.62	0.46
1:H:24:LEU:HD12	1:H:24:LEU:HA	1.62	0.46
1:M:260:LEU:HA	1:M:260:LEU:HD12	1.61	0.46
1:A:856:TYR:HD2	1:A:864:MET:CE	2.25	0.46
1:D:856:TYR:CD2	1:D:864:MET:CE	2.97	0.46
1:F:49:GLN:H	1:F:49:GLN:HE21	1.59	0.46
1:L:49:GLN:H	1:L:49:GLN:HE21	1.59	0.46
1:D:78:LEU:HB3	1:D:79:PRO:CD	2.45	0.46
1:A:129:VAL:CG2	1:A:182:ASN:ND2	2.77	0.46
1:F:77:ASP:O	1:F:78:LEU:HD23	2.15	0.46
1:N:77:ASP:O	1:N:78:LEU:HD23	2.15	0.46
1:E:347:LYS:CB	1:E:348:PRO:HD2	2.43	0.46
1:E:569:ASP:O	1:E:605:GLY:HA2	2.15	0.46
1:I:13:ARG:O	1:I:14:ARG:HB2	2.16	0.46
1:P:271:THR:HG22	1:P:272:ALA:N	2.29	0.46
1:C:612:THR:HB	1:C:613:PRO:HD2	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:512:PHE:CE1	1:P:517:LYS:HG3	2.51	0.46
1:D:612:THR:HA	1:D:613:PRO:HD3	1.68	0.46
1:G:445:GLN:HB3	1:G:445:GLN:HE21	1.55	0.46
1:G:99:ILE:HG23	1:G:594:ASP:HB2	1.98	0.46
1:E:486:TYR:CZ	1:E:488:GLY:HA3	2.51	0.46
1:L:830:LEU:CD1	1:L:830:LEU:N	2.78	0.46
1:P:99:ILE:HG23	1:P:594:ASP:HB2	1.98	0.46
1:F:486:TYR:CZ	1:F:488:GLY:HA3	2.51	0.46
1:E:878:HIS:HA	1:E:879:PRO:HD3	1.66	0.46
1:I:88:SER:HA	1:I:366:VAL:HG21	1.97	0.46
1:N:211:ASP:N	1:N:211:ASP:OD1	2.42	0.46
1:E:875:ASP:OD2	1:E:875:ASP:N	2.47	0.46
1:J:646:HIS:O	1:J:648:ASP:N	2.47	0.46
1:A:99:ILE:HG23	1:A:594:ASP:HB2	1.98	0.46
1:H:400:THR:O	1:H:404:ARG:HD2	2.16	0.46
1:O:99:ILE:HG23	1:O:594:ASP:HB2	1.98	0.46
1:K:830:LEU:N	1:K:830:LEU:CD1	2.78	0.46
1:O:743:SER:O	1:O:760:ARG:NH1	2.49	0.46
1:N:749:ILE:N	1:N:749:ILE:CD1	2.78	0.46
1:E:746:ASP:HA	1:E:760:ARG:CG	2.39	0.46
1:I:749:ILE:N	1:I:749:ILE:CD1	2.78	0.46
1:B:583:ASN:HA	1:B:584:PRO:HD3	1.80	0.46
1:I:576:ILE:CG2	1:I:577:LYS:N	2.78	0.46
1:L:251:ARG:CB	1:L:253:TYR:CE2	2.98	0.46
1:A:253:TYR:CD2	1:A:253:TYR:N	2.82	0.46
1:E:894:ARG:HH12	1:E:920:LEU:HA	1.81	0.46
1:N:894:ARG:HH12	1:N:920:LEU:HA	1.81	0.46
1:M:66:PRO:HD2	1:M:67:GLU:OE2	2.14	0.46
1:A:654:TRP:O	1:A:655:MET:HB3	2.15	0.46
1:J:655:MET:HE3	1:J:655:MET:HB2	1.92	0.46
1:A:210:ARG:NH1	1:A:395:HIS:CA	2.78	0.46
1:G:210:ARG:HH12	1:G:394:ASN:C	2.20	0.46
1:A:37:ARG:CG	1:A:37:ARG:NH1	2.79	0.46
1:N:49:GLN:H	1:N:49:GLN:HE21	1.59	0.46
1:G:631:LEU:HD12	1:G:635:THR:O	2.14	0.46
1:L:78:LEU:HB3	1:L:79:PRO:CD	2.45	0.46
1:L:583:ASN:HA	1:L:584:PRO:HD3	1.80	0.46
1:P:708:TRP:N	1:P:708:TRP:CD1	2.84	0.46
1:A:344:LEU:N	1:A:347:LYS:O	2.36	0.46
1:D:708:TRP:CD1	1:D:708:TRP:N	2.84	0.46
1:G:13:ARG:O	1:G:14:ARG:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:271:THR:HG22	1:F:272:ALA:N	2.29	0.46
1:O:272:ALA:HA	1:O:273:PRO:HD3	1.76	0.46
1:G:84:VAL:CG1	1:G:85:VAL:N	2.78	0.46
1:M:403:ASP:OD2	1:M:450:HIS:ND1	2.34	0.46
1:D:84:VAL:CG1	1:D:85:VAL:N	2.78	0.46
1:K:974:HIS:C	1:K:975:LEU:HD23	2.36	0.46
1:H:287:ASP:N	1:H:287:ASP:OD1	2.29	0.46
1:L:70:PRO:O	1:L:73:TRP:N	2.45	0.46
1:F:512:PHE:CE1	1:F:517:LYS:HG3	2.51	0.46
1:E:409:VAL:CG1	1:E:410:VAL:N	2.79	0.46
1:L:486:TYR:CE2	1:L:488:GLY:HA3	2.51	0.46
1:L:409:VAL:CG1	1:L:410:VAL:N	2.79	0.46
1:N:486:TYR:CE2	1:N:488:GLY:HA3	2.51	0.46
1:J:486:TYR:CE2	1:J:488:GLY:HA3	2.51	0.46
1:L:99:ILE:HG23	1:L:594:ASP:HB2	1.98	0.46
1:N:100:TYR:HB2	1:N:203:TRP:CE3	2.51	0.46
1:M:486:TYR:CZ	1:M:488:GLY:HA3	2.51	0.46
1:A:486:TYR:CE2	1:A:488:GLY:HA3	2.51	0.46
1:A:486:TYR:CZ	1:A:488:GLY:HA3	2.51	0.46
1:F:400:THR:O	1:F:404:ARG:HD2	2.16	0.46
1:A:100:TYR:HB2	1:A:203:TRP:CE3	2.51	0.46
1:P:830:LEU:N	1:P:830:LEU:CD1	2.78	0.46
1:A:400:THR:O	1:A:404:ARG:HD2	2.16	0.46
1:O:486:TYR:CZ	1:O:488:GLY:HA3	2.51	0.46
1:E:724:GLU:OE1	1:F:874:SER:HB3	2.16	0.46
1:N:400:THR:O	1:N:404:ARG:HD2	2.16	0.46
1:B:400:THR:O	1:B:404:ARG:HD2	2.16	0.46
1:P:486:TYR:CZ	1:P:488:GLY:HA3	2.51	0.46
1:J:743:SER:OG	1:J:744:GLU:N	2.49	0.46
1:F:740:LEU:HD13	1:F:749:ILE:HD12	1.97	0.46
1:K:743:SER:OG	1:K:744:GLU:N	2.49	0.46
1:A:744:GLU:C	1:A:745:MET:HE3	2.37	0.46
1:K:57:GLU:HG2	1:K:83:THR:HG21	1.93	0.46
1:C:57:GLU:HG2	1:C:83:THR:HG21	1.93	0.46
1:D:1020:TRP:CD1	1:D:1021:CME:N	2.80	0.46
1:K:67:GLU:HG2	1:K:67:GLU:H	1.30	0.46
1:E:255:ARG:NH1	1:E:255:ARG:CG	2.79	0.46
1:K:254:LEU:HA	1:K:254:LEU:HD23	1.62	0.46
1:C:822:LEU:C	1:C:822:LEU:HD12	2.37	0.46
1:B:210:ARG:HH12	1:B:394:ASN:C	2.19	0.46
1:I:210:ARG:HH11	1:I:395:HIS:HB2	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:210:ARG:NH1	1:C:395:HIS:CA	2.78	0.46
1:E:210:ARG:NH1	1:E:395:HIS:CA	2.78	0.46
1:C:682:LEU:HD23	1:C:682:LEU:HA	1.67	0.46
1:N:11:LEU:N	1:N:11:LEU:CD2	2.76	0.46
1:O:278:ILE:N	1:O:278:ILE:CD1	2.78	0.46
1:P:78:LEU:CB	1:P:79:PRO:HD2	2.44	0.46
1:H:856:TYR:HD2	1:H:864:MET:CE	2.25	0.46
1:E:856:TYR:HD2	1:E:864:MET:CE	2.25	0.46
1:L:576:ILE:CG2	1:L:577:LYS:N	2.78	0.46
1:M:708:TRP:N	1:M:708:TRP:CD1	2.84	0.46
1:A:569:ASP:O	1:A:605:GLY:HA2	2.16	0.46
1:D:730:LEU:HA	1:D:731:PRO:HD3	1.74	0.46
1:H:512:PHE:CE1	1:H:517:LYS:HG3	2.51	0.46
1:N:512:PHE:CE1	1:N:517:LYS:HG3	2.51	0.46
1:O:512:PHE:CE1	1:O:517:LYS:HG3	2.51	0.46
1:E:930:VAL:HA	1:E:973:ARG:HD3	1.97	0.46
1:M:486:TYR:CE2	1:M:488:GLY:HA3	2.51	0.46
1:E:479:ASP:HA	1:E:480:PRO:HD2	1.61	0.46
1:A:724:GLU:OE1	1:B:874:SER:HB3	2.16	0.46
1:M:830:LEU:CD1	1:M:830:LEU:N	2.78	0.46
1:A:279:ILE:HD11	1:D:424:ASN:OD1	2.16	0.46
1:B:646:HIS:O	1:B:648:ASP:N	2.47	0.46
1:G:726:LEU:HA	1:G:726:LEU:HD23	1.65	0.46
1:P:646:HIS:O	1:P:648:ASP:N	2.47	0.46
1:J:743:SER:O	1:J:760:ARG:NH1	2.49	0.46
1:N:740:LEU:HD13	1:N:749:ILE:HD12	1.97	0.46
1:F:743:SER:OG	1:F:744:GLU:N	2.49	0.46
1:N:743:SER:O	1:N:760:ARG:NH1	2.49	0.46
1:O:740:LEU:HD13	1:O:749:ILE:HD12	1.97	0.46
1:I:740:LEU:HD13	1:I:749:ILE:HD12	1.97	0.46
1:L:436:MET:HE3	1:L:467:ASN:ND2	2.21	0.46
1:G:92:MET:HE3	1:G:362:LEU:O	2.15	0.46
1:D:781:ARG:CG	1:D:781:ARG:NH1	2.79	0.46
1:L:781:ARG:O	1:L:884:LEU:HA	2.16	0.46
1:A:781:ARG:O	1:A:884:LEU:HA	2.16	0.46
1:P:1020:TRP:CD1	1:P:1021:CME:N	2.80	0.46
1:I:781:ARG:O	1:I:884:LEU:HA	2.16	0.46
1:O:894:ARG:HH12	1:O:920:LEU:HA	1.81	0.46
1:G:894:ARG:HH12	1:G:920:LEU:HA	1.81	0.46
1:N:255:ARG:NH1	1:N:255:ARG:CG	2.79	0.46
1:J:254:LEU:HA	1:J:254:LEU:HD23	1.62	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:654:TRP:O	1:I:655:MET:HB3	2.15	0.46
1:D:654:TRP:O	1:D:655:MET:HB3	2.15	0.46
1:F:210:ARG:HH12	1:F:394:ASN:C	2.20	0.46
1:N:210:ARG:HH12	1:N:394:ASN:C	2.20	0.46
1:C:210:ARG:HH11	1:C:395:HIS:HB2	1.81	0.46
1:L:655:MET:HB2	1:L:655:MET:HE3	1.92	0.46
1:E:37:ARG:NH1	1:E:37:ARG:CG	2.79	0.46
1:B:631:LEU:HD12	1:B:635:THR:O	2.14	0.46
1:H:77:ASP:O	1:H:78:LEU:HD23	2.15	0.46
1:O:78:LEU:HB3	1:O:79:PRO:CD	2.45	0.46
1:B:79:PRO:HD2	1:B:80:GLU:OE2	2.17	0.46
1:F:78:LEU:HB3	1:F:79:PRO:CD	2.45	0.46
1:B:708:TRP:CD1	1:B:708:TRP:N	2.84	0.46
1:K:708:TRP:N	1:K:708:TRP:CD1	2.84	0.46
1:J:900:LEU:HD23	1:J:900:LEU:HA	1.75	0.46
1:M:473:ARG:HD2	1:P:469:ASP:HB3	1.96	0.46
1:A:974:HIS:C	1:A:975:LEU:HD23	2.36	0.46
1:E:807:VAL:CG1	1:E:808:GLU:N	2.79	0.46
1:C:612:THR:HA	1:C:613:PRO:HD3	1.68	0.46
1:A:930:VAL:HA	1:A:973:ARG:HD3	1.97	0.46
1:K:942:ARG:HA	1:K:953:GLY:O	2.15	0.46
1:B:486:TYR:CZ	1:B:488:GLY:HA3	2.51	0.46
1:B:486:TYR:CE2	1:B:488:GLY:HA3	2.51	0.46
1:F:479:ASP:HA	1:F:480:PRO:HD2	1.61	0.46
1:E:400:THR:O	1:E:404:ARG:HD2	2.16	0.46
1:M:111:PRO:HA	1:M:112:PRO:HA	1.57	0.46
1:G:100:TYR:HB2	1:G:203:TRP:CE3	2.51	0.46
1:C:830:LEU:CD1	1:C:830:LEU:N	2.78	0.46
1:N:726:LEU:HA	1:N:726:LEU:HD23	1.65	0.46
1:D:88:SER:HA	1:D:366:VAL:HG21	1.97	0.46
1:N:391:HIS:ND1	1:N:412:GLU:OE1	2.44	0.46
1:N:99:ILE:HG23	1:N:594:ASP:HB2	1.98	0.46
1:C:646:HIS:O	1:C:648:ASP:N	2.48	0.46
1:K:746:ASP:HA	1:K:760:ARG:CG	2.39	0.45
1:M:743:SER:OG	1:M:744:GLU:N	2.49	0.45
1:M:740:LEU:HD13	1:M:749:ILE:HD12	1.97	0.45
1:A:740:LEU:HD13	1:A:749:ILE:HD12	1.97	0.45
1:B:92:MET:HE3	1:B:362:LEU:O	2.16	0.45
1:A:419:GLY:C	1:D:282:ARG:NH1	2.69	0.45
1:C:894:ARG:HH12	1:C:920:LEU:HA	1.81	0.45
1:G:227:VAL:CG1	1:G:240:LEU:HD11	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:822:LEU:C	1:J:822:LEU:HD12	2.37	0.45
1:O:822:LEU:HD12	1:O:822:LEU:C	2.36	0.45
1:N:654:TRP:O	1:N:655:MET:HB3	2.15	0.45
1:H:395:HIS:HA	1:H:396:PRO:HD3	1.48	0.45
1:I:37:ARG:CG	1:I:37:ARG:NH1	2.79	0.45
1:P:77:ASP:O	1:P:78:LEU:HD23	2.15	0.45
1:G:79:PRO:HD2	1:G:80:GLU:OE2	2.17	0.45
1:B:78:LEU:HB3	1:B:79:PRO:CD	2.45	0.45
1:A:282:ARG:NH1	1:D:419:GLY:C	2.69	0.45
1:I:974:HIS:C	1:I:975:LEU:HD23	2.36	0.45
1:D:974:HIS:C	1:D:975:LEU:HD23	2.36	0.45
1:M:974:HIS:C	1:M:975:LEU:HD23	2.36	0.45
1:N:807:VAL:CG1	1:N:808:GLU:N	2.80	0.45
1:K:70:PRO:O	1:K:73:TRP:N	2.45	0.45
1:I:73:TRP:CZ2	1:I:122:CYS:HB3	2.50	0.45
1:M:445:GLN:HB3	1:M:445:GLN:HE21	1.54	0.45
1:D:486:TYR:CE2	1:D:488:GLY:HA3	2.51	0.45
1:F:486:TYR:CE2	1:F:488:GLY:HA3	2.51	0.45
1:P:400:THR:O	1:P:404:ARG:HD2	2.16	0.45
1:F:99:ILE:HG23	1:F:594:ASP:HB2	1.98	0.45
1:O:726:LEU:HD23	1:O:726:LEU:HA	1.65	0.45
1:I:479:ASP:HA	1:I:480:PRO:HD2	1.61	0.45
1:I:486:TYR:CZ	1:I:488:GLY:HA3	2.51	0.45
1:I:942:ARG:HA	1:I:953:GLY:O	2.15	0.45
1:P:100:TYR:HB2	1:P:203:TRP:CE3	2.51	0.45
1:H:743:SER:OG	1:H:744:GLU:N	2.49	0.45
1:G:740:LEU:HD13	1:G:749:ILE:HD12	1.97	0.45
1:D:743:SER:OG	1:D:744:GLU:N	2.49	0.45
1:D:746:ASP:HA	1:D:760:ARG:CG	2.39	0.45
1:J:749:ILE:CD1	1:J:749:ILE:N	2.78	0.45
1:C:743:SER:OG	1:C:744:GLU:N	2.49	0.45
1:J:856:TYR:CD2	1:J:864:MET:CE	2.97	0.45
1:F:576:ILE:CG2	1:F:577:LYS:N	2.78	0.45
1:J:781:ARG:O	1:J:884:LEU:HA	2.16	0.45
1:D:894:ARG:HH12	1:D:920:LEU:HA	1.81	0.45
1:P:894:ARG:HH12	1:P:920:LEU:HA	1.81	0.45
1:L:894:ARG:HH12	1:L:920:LEU:HA	1.81	0.45
1:G:822:LEU:HD12	1:G:822:LEU:C	2.37	0.45
1:G:822:LEU:HD12	1:G:823:LEU:H	1.80	0.45
1:P:685:LEU:HA	1:P:686:PRO:HD3	1.70	0.45
1:P:210:ARG:NH1	1:P:395:HIS:CA	2.78	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:210:ARG:NH1	1:I:395:HIS:CA	2.78	0.45
1:J:682:LEU:HD23	1:J:682:LEU:HA	1.67	0.45
1:I:79:PRO:HD2	1:I:80:GLU:OE2	2.17	0.45
1:N:78:LEU:HB3	1:N:79:PRO:CD	2.45	0.45
1:A:377:LEU:HD22	1:A:708:TRP:CA	2.44	0.45
1:H:569:ASP:O	1:H:605:GLY:HA2	2.15	0.45
1:B:13:ARG:O	1:B:14:ARG:HB2	2.16	0.45
1:J:271:THR:HG22	1:J:272:ALA:N	2.29	0.45
1:C:974:HIS:C	1:C:975:LEU:HD23	2.36	0.45
1:B:807:VAL:CG1	1:B:808:GLU:N	2.80	0.45
1:B:445:GLN:HE21	1:B:445:GLN:HB3	1.54	0.45
1:K:409:VAL:CG1	1:K:410:VAL:N	2.79	0.45
1:P:409:VAL:CG1	1:P:410:VAL:N	2.79	0.45
1:H:409:VAL:CG1	1:H:410:VAL:N	2.79	0.45
1:O:486:TYR:CE2	1:O:488:GLY:HA3	2.51	0.45
1:B:88:SER:HA	1:B:366:VAL:HG21	1.97	0.45
1:H:830:LEU:CD1	1:H:830:LEU:N	2.78	0.45
1:L:670:LEU:HA	1:L:670:LEU:HD23	1.67	0.45
1:J:173:LEU:HA	1:J:173:LEU:HD23	1.69	0.45
1:O:391:HIS:ND1	1:O:412:GLU:OE1	2.44	0.45
1:H:942:ARG:HA	1:H:953:GLY:O	2.15	0.45
1:N:875:ASP:N	1:N:875:ASP:OD2	2.47	0.45
1:B:743:SER:O	1:B:760:ARG:NH1	2.49	0.45
1:D:743:SER:O	1:D:760:ARG:NH1	2.49	0.45
1:F:743:SER:O	1:F:760:ARG:NH1	2.49	0.45
1:G:436:MET:HE1	1:G:467:ASN:HD22	1.77	0.45
1:M:746:ASP:HA	1:M:760:ARG:CG	2.39	0.45
1:L:316:HIS:HB2	1:L:321:THR:O	2.16	0.45
1:P:46:ARG:CG	1:P:46:ARG:NH1	2.78	0.45
1:J:579:ASP:N	1:J:583:ASN:O	2.40	0.45
1:G:781:ARG:O	1:G:884:LEU:HA	2.16	0.45
1:O:781:ARG:O	1:O:884:LEU:HA	2.16	0.45
1:K:894:ARG:HH12	1:K:920:LEU:HA	1.81	0.45
1:F:781:ARG:O	1:F:884:LEU:HA	2.16	0.45
1:E:254:LEU:HD23	1:E:254:LEU:HA	1.62	0.45
1:I:63:PHE:CB	1:I:64:PRO:HD2	2.32	0.45
1:G:825:CYS:HA	1:G:837:THR:O	2.17	0.45
1:P:825:CYS:HA	1:P:837:THR:O	2.17	0.45
1:A:254:LEU:HD23	1:A:254:LEU:HA	1.62	0.45
1:M:825:CYS:HA	1:M:837:THR:O	2.17	0.45
1:E:825:CYS:HA	1:E:837:THR:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:210:ARG:HH11	1:N:395:HIS:HB2	1.82	0.45
1:I:210:ARG:HH12	1:I:394:ASN:C	2.19	0.45
1:B:260:LEU:HA	1:B:260:LEU:HD12	1.61	0.45
1:J:37:ARG:NH1	1:J:37:ARG:CG	2.79	0.45
1:D:37:ARG:NH1	1:D:37:ARG:CG	2.79	0.45
1:D:576:ILE:CG2	1:D:577:LYS:N	2.78	0.45
1:L:77:ASP:O	1:L:78:LEU:HD23	2.15	0.45
1:A:282:ARG:HD3	1:D:418:HIS:O	2.15	0.45
1:F:79:PRO:HD2	1:F:80:GLU:OE2	2.17	0.45
1:L:129:VAL:CG2	1:L:182:ASN:ND2	2.77	0.45
1:I:4:THR:CA	1:I:9:VAL:HG11	2.47	0.45
1:F:377:LEU:HD22	1:F:708:TRP:CA	2.44	0.45
1:H:344:LEU:N	1:H:347:LYS:O	2.36	0.45
1:D:900:LEU:HD23	1:D:900:LEU:HA	1.75	0.45
1:N:347:LYS:HA	1:N:348:PRO:HD3	1.77	0.45
1:J:599:ARG:HB2	1:J:600:GLN:H	1.41	0.45
1:G:569:ASP:O	1:G:605:GLY:HA2	2.15	0.45
1:L:13:ARG:O	1:L:14:ARG:HB2	2.15	0.45
1:C:271:THR:HG22	1:C:272:ALA:N	2.29	0.45
1:A:429:ASP:HA	1:A:430:PRO:HD3	1.51	0.45
1:F:974:HIS:C	1:F:975:LEU:HD23	2.36	0.45
1:N:974:HIS:C	1:N:975:LEU:HD23	2.36	0.45
1:K:807:VAL:CG1	1:K:808:GLU:N	2.80	0.45
1:K:512:PHE:CE1	1:K:517:LYS:HG3	2.51	0.45
1:P:608:PHE:O	1:P:611:ARG:N	2.41	0.45
1:D:930:VAL:HA	1:D:973:ARG:HD3	1.97	0.45
1:A:409:VAL:CG1	1:A:410:VAL:N	2.79	0.45
1:G:486:TYR:CE2	1:G:488:GLY:HA3	2.51	0.45
1:O:400:THR:O	1:O:404:ARG:HD2	2.16	0.45
1:I:830:LEU:N	1:I:830:LEU:CD1	2.78	0.45
1:L:363:HIS:CD2	1:L:363:HIS:N	2.81	0.45
1:E:531:ARG:O	1:E:561:ARG:NH1	2.46	0.45
1:D:830:LEU:N	1:D:830:LEU:CD1	2.78	0.45
1:I:46:ARG:CG	1:I:46:ARG:NH1	2.78	0.45
1:B:579:ASP:N	1:B:583:ASN:O	2.40	0.45
1:E:316:HIS:HB2	1:E:321:THR:O	2.15	0.45
1:C:781:ARG:O	1:C:884:LEU:HA	2.16	0.45
1:A:423:MET:HE2	1:D:282:ARG:HG2	1.98	0.45
1:L:230:ARG:HH11	1:L:230:ARG:CG	2.24	0.45
1:D:227:VAL:CG1	1:D:240:LEU:HD11	2.42	0.45
1:M:822:LEU:C	1:M:822:LEU:HD12	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:654:TRP:O	1:J:655:MET:HB3	2.15	0.45
1:E:654:TRP:O	1:E:655:MET:HB3	2.15	0.45
1:F:210:ARG:HH11	1:F:395:HIS:HB2	1.82	0.45
1:D:210:ARG:NH1	1:D:395:HIS:CA	2.78	0.45
1:M:210:ARG:HH11	1:M:395:HIS:HB2	1.81	0.45
1:I:260:LEU:HA	1:I:260:LEU:HD12	1.61	0.45
1:K:210:ARG:HH11	1:K:395:HIS:HB2	1.81	0.45
1:B:37:ARG:CG	1:B:37:ARG:NH1	2.79	0.45
1:O:702:GLN:HA	1:O:703:PRO:HD2	1.84	0.45
1:G:702:GLN:HA	1:G:703:PRO:HD2	1.84	0.45
1:M:49:GLN:H	1:M:49:GLN:HE21	1.59	0.45
1:C:79:PRO:HD2	1:C:80:GLU:OE2	2.16	0.45
1:O:79:PRO:HD2	1:O:80:GLU:OE2	2.17	0.45
1:E:418:HIS:O	1:H:282:ARG:HD3	2.17	0.45
1:E:129:VAL:CG2	1:E:182:ASN:ND2	2.77	0.45
1:G:343:LEU:HD23	1:G:348:PRO:HA	1.99	0.45
1:O:343:LEU:HD23	1:O:348:PRO:HA	1.99	0.45
1:C:569:ASP:O	1:C:605:GLY:HA2	2.15	0.45
1:A:12:GLN:OE1	1:A:12:GLN:HA	2.17	0.45
1:P:569:ASP:O	1:P:605:GLY:HA2	2.15	0.45
1:M:13:ARG:O	1:M:14:ARG:HB2	2.16	0.45
1:L:387:VAL:CG2	1:L:388:ARG:N	2.80	0.45
1:H:807:VAL:CG1	1:H:808:GLU:N	2.80	0.45
1:J:409:VAL:CG1	1:J:410:VAL:N	2.79	0.45
1:E:486:TYR:CE2	1:E:488:GLY:HA3	2.51	0.45
1:I:486:TYR:CE2	1:I:488:GLY:HA3	2.51	0.45
1:K:100:TYR:HB2	1:K:203:TRP:CE3	2.51	0.45
1:M:875:ASP:N	1:M:875:ASP:OD2	2.47	0.45
1:P:875:ASP:OD2	1:P:875:ASP:N	2.47	0.45
1:G:202:MET:HE3	1:G:202:MET:HB3	1.84	0.45
1:G:961:ARG:NH2	1:G:979:GLU:O	2.37	0.45
1:E:830:LEU:CD1	1:E:830:LEU:N	2.78	0.45
1:E:743:SER:O	1:E:760:ARG:NH1	2.49	0.45
1:M:743:SER:O	1:M:760:ARG:NH1	2.49	0.45
1:N:436:MET:HE1	1:N:467:ASN:HB2	1.97	0.45
1:K:46:ARG:NH1	1:K:46:ARG:CG	2.78	0.45
1:J:651:LEU:HD13	1:J:651:LEU:HA	1.51	0.45
1:A:316:HIS:HB2	1:A:321:THR:O	2.16	0.45
1:D:781:ARG:O	1:D:884:LEU:HA	2.16	0.45
1:N:576:ILE:CG2	1:N:577:LYS:N	2.78	0.45
1:H:894:ARG:HH12	1:H:920:LEU:HA	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:255:ARG:CG	1:O:255:ARG:NH1	2.79	0.45
1:A:825:CYS:HA	1:A:837:THR:O	2.17	0.45
1:O:210:ARG:HH11	1:O:395:HIS:HB2	1.82	0.45
1:G:210:ARG:HH11	1:G:395:HIS:HB2	1.82	0.45
1:C:210:ARG:HH12	1:C:394:ASN:C	2.20	0.45
1:M:79:PRO:HD2	1:M:80:GLU:OE2	2.16	0.45
1:E:377:LEU:HD22	1:E:708:TRP:CA	2.44	0.45
1:C:12:GLN:HA	1:C:12:GLN:OE1	2.17	0.45
1:L:377:LEU:HD22	1:L:708:TRP:CA	2.44	0.45
1:H:4:THR:CA	1:H:9:VAL:HG11	2.47	0.45
1:J:347:LYS:CB	1:J:348:PRO:HD2	2.43	0.45
1:B:569:ASP:O	1:B:605:GLY:HA2	2.15	0.45
1:C:13:ARG:O	1:C:14:ARG:HB2	2.16	0.45
1:E:13:ARG:O	1:E:14:ARG:HB2	2.16	0.45
1:K:13:ARG:O	1:K:14:ARG:HB2	2.16	0.45
1:H:974:HIS:C	1:H:975:LEU:HD23	2.36	0.45
1:P:807:VAL:CG1	1:P:808:GLU:N	2.80	0.45
1:J:807:VAL:CG1	1:J:808:GLU:N	2.79	0.45
1:I:807:VAL:CG1	1:I:808:GLU:N	2.80	0.45
1:A:512:PHE:CE1	1:A:517:LYS:HG3	2.51	0.45
1:M:512:PHE:CE1	1:M:517:LYS:HG3	2.51	0.45
1:C:409:VAL:CG1	1:C:410:VAL:N	2.79	0.45
1:D:409:VAL:CG1	1:D:410:VAL:N	2.79	0.45
1:C:486:TYR:CE2	1:C:488:GLY:HA3	2.51	0.45
1:M:723:ALA:HB1	1:N:875:ASP:OD1	2.16	0.45
1:I:400:THR:O	1:I:404:ARG:HD2	2.16	0.45
1:A:830:LEU:CD1	1:A:830:LEU:N	2.78	0.45
1:F:694:LEU:HA	1:F:694:LEU:HD12	1.69	0.45
1:G:400:THR:O	1:G:404:ARG:HD2	2.16	0.45
1:B:637:GLU:HA	1:B:679:LEU:CD2	2.47	0.45
1:I:391:HIS:ND1	1:I:412:GLU:OE1	2.44	0.45
1:C:100:TYR:HB2	1:C:203:TRP:CE3	2.51	0.45
1:H:743:SER:O	1:H:760:ARG:NH1	2.49	0.45
1:I:743:SER:O	1:I:760:ARG:NH1	2.49	0.45
1:L:668:VAL:HG13	1:L:669:PRO:CD	2.38	0.45
1:N:57:GLU:HG2	1:N:83:THR:HG21	1.93	0.45
1:N:7:LEU:O	1:N:8:ALA:C	2.55	0.45
1:B:7:LEU:O	1:B:8:ALA:C	2.55	0.45
1:B:251:ARG:CB	1:B:253:TYR:CE2	2.98	0.45
1:G:67:GLU:H	1:G:67:GLU:HG2	1.31	0.45
1:K:825:CYS:HA	1:K:837:THR:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:255:ARG:NH1	1:G:255:ARG:CG	2.79	0.45
1:B:825:CYS:HA	1:B:837:THR:O	2.17	0.45
1:F:825:CYS:HA	1:F:837:THR:O	2.17	0.45
1:L:210:ARG:HH11	1:L:395:HIS:HB2	1.81	0.45
1:M:210:ARG:HH12	1:M:394:ASN:C	2.19	0.45
1:E:210:ARG:HH12	1:E:394:ASN:C	2.19	0.45
1:E:661:LYS:HA	1:E:662:PRO:HD3	1.63	0.45
1:E:11:LEU:N	1:E:11:LEU:CD2	2.76	0.45
1:H:78:LEU:HB3	1:H:79:PRO:CD	2.45	0.45
1:H:79:PRO:HD2	1:H:80:GLU:OE2	2.16	0.45
1:I:12:GLN:HA	1:I:12:GLN:OE1	2.17	0.45
1:J:708:TRP:CD1	1:J:708:TRP:N	2.84	0.45
1:J:343:LEU:HD23	1:J:348:PRO:HA	1.99	0.45
1:L:343:LEU:HD23	1:L:348:PRO:HA	1.99	0.45
1:A:387:VAL:CG2	1:A:388:ARG:N	2.80	0.45
1:L:974:HIS:C	1:L:975:LEU:HD23	2.36	0.45
1:C:807:VAL:CG1	1:C:808:GLU:N	2.79	0.45
1:D:807:VAL:CG1	1:D:808:GLU:N	2.79	0.45
1:G:512:PHE:CE1	1:G:517:LYS:HG3	2.51	0.45
1:B:425:ARG:NH2	1:C:287:ASP:OD2	2.50	0.45
1:I:409:VAL:CG1	1:I:410:VAL:N	2.79	0.45
1:N:531:ARG:O	1:N:561:ARG:NH1	2.46	0.45
1:E:637:GLU:HA	1:E:679:LEU:CD2	2.47	0.45
1:L:637:GLU:HA	1:L:679:LEU:CD2	2.47	0.45
1:M:400:THR:O	1:M:404:ARG:HD2	2.16	0.45
1:M:118:ASN:HA	1:M:119:PRO:HD2	1.60	0.45
1:P:363:HIS:N	1:P:363:HIS:CD2	2.81	0.45
1:B:670:LEU:HD23	1:B:670:LEU:HA	1.67	0.45
1:K:757:GLN:O	1:K:757:GLN:HG2	2.12	0.45
1:B:100:TYR:HB2	1:B:203:TRP:CE3	2.51	0.45
1:M:99:ILE:HG23	1:M:594:ASP:HB2	1.98	0.45
1:H:486:TYR:CZ	1:H:488:GLY:HA3	2.51	0.45
1:B:99:ILE:HG23	1:B:594:ASP:HB2	1.98	0.45
1:P:743:SER:OG	1:P:744:GLU:N	2.49	0.45
1:D:254:LEU:HD23	1:D:254:LEU:HA	1.62	0.45
1:D:825:CYS:HA	1:D:837:THR:O	2.17	0.45
1:P:254:LEU:HD23	1:P:254:LEU:HA	1.62	0.45
1:G:129:VAL:CG2	1:G:182:ASN:ND2	2.77	0.45
1:A:77:ASP:O	1:A:78:LEU:HD23	2.15	0.45
1:N:377:LEU:HD22	1:N:708:TRP:CA	2.44	0.45
1:M:377:LEU:HD22	1:M:708:TRP:CA	2.44	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:12:GLN:HA	1:L:12:GLN:OE1	2.17	0.45
1:C:708:TRP:CD1	1:C:708:TRP:N	2.84	0.45
1:M:12:GLN:OE1	1:M:12:GLN:HA	2.17	0.45
1:H:12:GLN:OE1	1:H:12:GLN:HA	2.17	0.45
1:E:343:LEU:HD23	1:E:348:PRO:HA	1.99	0.45
1:N:13:ARG:O	1:N:14:ARG:HB2	2.16	0.45
1:H:429:ASP:HA	1:H:430:PRO:HD3	1.51	0.45
1:C:730:LEU:HA	1:C:731:PRO:HD3	1.74	0.45
1:J:974:HIS:C	1:J:975:LEU:HD23	2.36	0.45
1:I:512:PHE:CE1	1:I:517:LYS:HG3	2.51	0.45
1:E:512:PHE:CE1	1:E:517:LYS:HG3	2.51	0.45
1:D:927:THR:HA	1:D:928:PRO:HD3	1.62	0.45
1:N:409:VAL:CG1	1:N:410:VAL:N	2.79	0.45
1:F:646:HIS:O	1:F:648:ASP:N	2.47	0.45
1:N:479:ASP:HA	1:N:480:PRO:HD2	1.61	0.45
1:J:637:GLU:HA	1:J:679:LEU:CD2	2.47	0.45
1:O:637:GLU:HA	1:O:679:LEU:CD2	2.47	0.45
1:N:147:ASN:HA	1:N:148:SER:HA	1.55	0.45
1:D:740:LEU:HD13	1:D:749:ILE:HD12	1.97	0.45
1:C:740:LEU:HD13	1:C:749:ILE:HD12	1.97	0.45
1:L:67:GLU:HG2	1:L:67:GLU:H	1.31	0.45
1:B:67:GLU:HG2	1:B:67:GLU:H	1.30	0.45
1:D:65:ALA:HB1	1:D:66:PRO:CD	2.38	0.45
1:H:654:TRP:O	1:H:655:MET:HB3	2.15	0.45
1:A:655:MET:HB2	1:A:655:MET:HE3	1.93	0.45
1:B:210:ARG:HH11	1:B:395:HIS:HB2	1.81	0.45
1:J:210:ARG:HH11	1:J:395:HIS:HB2	1.81	0.45
1:P:210:ARG:HH12	1:P:394:ASN:C	2.20	0.45
1:I:24:LEU:HA	1:I:24:LEU:HD12	1.62	0.45
1:P:702:GLN:HA	1:P:703:PRO:HD2	1.84	0.45
1:O:702:GLN:O	1:O:712:GLY:N	2.45	0.45
1:P:79:PRO:HD2	1:P:80:GLU:OE2	2.17	0.45
1:O:129:VAL:CG2	1:O:182:ASN:ND2	2.77	0.45
1:O:708:TRP:CD1	1:O:708:TRP:N	2.84	0.45
1:G:708:TRP:N	1:G:708:TRP:CD1	2.84	0.45
1:H:708:TRP:N	1:H:708:TRP:CD1	2.84	0.45
1:O:4:THR:CA	1:O:9:VAL:HG11	2.47	0.45
1:M:343:LEU:HD23	1:M:348:PRO:HA	1.99	0.45
1:D:343:LEU:HD23	1:D:348:PRO:HA	1.99	0.45
1:L:272:ALA:HB1	1:L:273:PRO:CD	2.47	0.45
1:B:387:VAL:CG2	1:B:388:ARG:N	2.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:429:ASP:HA	1:P:430:PRO:HD3	1.51	0.45
1:C:387:VAL:CG2	1:C:388:ARG:N	2.80	0.45
1:G:387:VAL:CG2	1:G:388:ARG:N	2.80	0.45
1:G:1018:LEU:HA	1:G:1018:LEU:HD23	1.51	0.45
1:H:486:TYR:CE2	1:H:488:GLY:HA3	2.51	0.45
1:D:400:THR:O	1:D:404:ARG:HD2	2.16	0.45
1:D:878:HIS:HA	1:D:879:PRO:HD3	1.66	0.45
1:D:99:ILE:HG23	1:D:594:ASP:HB2	1.98	0.45
1:M:637:GLU:HA	1:M:679:LEU:CD2	2.47	0.45
1:H:670:LEU:HA	1:H:670:LEU:HD23	1.67	0.45
1:H:875:ASP:OD2	1:H:875:ASP:N	2.47	0.45
1:M:173:LEU:HD23	1:M:173:LEU:HA	1.69	0.45
1:G:363:HIS:N	1:G:363:HIS:CD2	2.81	0.45
1:A:363:HIS:CD2	1:A:363:HIS:N	2.81	0.45
1:H:264:GLU:HA	1:H:264:GLU:OE2	2.17	0.45
1:E:743:SER:OG	1:E:744:GLU:N	2.49	0.45
1:J:92:MET:HE3	1:J:362:LEU:O	2.16	0.45
1:M:251:ARG:CB	1:M:253:TYR:CE2	2.98	0.45
1:J:894:ARG:HH12	1:J:920:LEU:HA	1.81	0.45
1:L:825:CYS:HA	1:L:837:THR:O	2.17	0.45
1:J:210:ARG:HH12	1:J:394:ASN:C	2.20	0.45
1:I:395:HIS:HA	1:I:396:PRO:HD3	1.48	0.45
1:H:210:ARG:HH11	1:H:395:HIS:HB2	1.81	0.45
1:H:210:ARG:HH12	1:H:394:ASN:C	2.20	0.45
1:O:210:ARG:HH12	1:O:394:ASN:C	2.19	0.45
1:E:210:ARG:HH11	1:E:395:HIS:HB2	1.82	0.45
1:I:49:GLN:H	1:I:49:GLN:HE21	1.59	0.45
1:J:77:ASP:O	1:J:78:LEU:HD23	2.15	0.45
1:J:79:PRO:HD2	1:J:80:GLU:OE2	2.17	0.45
1:L:79:PRO:HD2	1:L:80:GLU:OE2	2.17	0.45
1:K:576:ILE:CG2	1:K:577:LYS:N	2.78	0.45
1:K:12:GLN:HA	1:K:12:GLN:OE1	2.17	0.45
1:N:79:PRO:HD2	1:N:80:GLU:OE2	2.17	0.45
1:E:234:ASP:O	1:E:235:PHE:HB2	2.17	0.45
1:P:12:GLN:HA	1:P:12:GLN:OE1	2.17	0.45
1:A:234:ASP:O	1:A:235:PHE:HB2	2.17	0.45
1:B:234:ASP:O	1:B:235:PHE:HB2	2.17	0.45
1:G:234:ASP:O	1:G:235:PHE:HB2	2.17	0.45
1:B:4:THR:CA	1:B:9:VAL:HG11	2.47	0.45
1:C:343:LEU:HD23	1:C:348:PRO:HA	1.99	0.45
1:L:347:LYS:HA	1:L:348:PRO:HD3	1.77	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:599:ARG:HB2	1:M:600:GLN:H	1.41	0.45
1:O:272:ALA:HB1	1:O:273:PRO:CD	2.47	0.45
1:J:387:VAL:CG2	1:J:388:ARG:N	2.80	0.45
1:K:272:ALA:HA	1:K:273:PRO:HD3	1.76	0.45
1:P:974:HIS:C	1:P:975:LEU:HD23	2.36	0.45
1:A:807:VAL:CG1	1:A:808:GLU:N	2.79	0.45
1:M:807:VAL:CG1	1:M:808:GLU:N	2.80	0.45
1:I:131:GLU:HA	1:I:134:LEU:HB2	1.99	0.45
1:B:70:PRO:O	1:B:73:TRP:N	2.45	0.45
1:B:409:VAL:CG1	1:B:410:VAL:N	2.79	0.45
1:O:409:VAL:CG1	1:O:410:VAL:N	2.79	0.45
1:B:479:ASP:HA	1:B:480:PRO:HD2	1.61	0.45
1:G:637:GLU:HA	1:G:679:LEU:CD2	2.47	0.45
1:N:646:HIS:O	1:N:648:ASP:N	2.47	0.45
1:E:722:LEU:HA	1:E:722:LEU:HD23	1.75	0.45
1:G:479:ASP:HA	1:G:480:PRO:HD2	1.61	0.45
1:E:99:ILE:HG23	1:E:594:ASP:HB2	1.98	0.45
1:L:878:HIS:HA	1:L:879:PRO:HD3	1.66	0.45
1:F:878:HIS:HA	1:F:879:PRO:HD3	1.66	0.45
1:O:363:HIS:N	1:O:363:HIS:CD2	2.81	0.45
1:B:743:SER:OG	1:B:744:GLU:N	2.49	0.45
1:I:740:LEU:CD1	1:I:741:THR:H	2.12	0.45
1:J:583:ASN:HA	1:J:584:PRO:HD3	1.79	0.45
1:A:781:ARG:CG	1:A:781:ARG:NH1	2.79	0.45
1:A:251:ARG:CB	1:A:253:TYR:CE2	2.98	0.45
1:P:227:VAL:CG1	1:P:240:LEU:HD11	2.42	0.45
1:E:65:ALA:HB1	1:E:66:PRO:CD	2.38	0.45
1:P:822:LEU:HD12	1:P:823:LEU:H	1.81	0.45
1:P:654:TRP:O	1:P:655:MET:HB3	2.15	0.45
1:N:682:LEU:HA	1:N:682:LEU:HD23	1.67	0.45
1:F:823:LEU:HA	1:F:823:LEU:HD23	1.73	0.45
1:K:37:ARG:CG	1:K:37:ARG:NH1	2.79	0.45
1:D:260:LEU:HA	1:D:260:LEU:HD12	1.61	0.45
1:N:702:GLN:O	1:N:712:GLY:N	2.45	0.45
1:E:79:PRO:HD2	1:E:80:GLU:OE2	2.16	0.45
1:N:234:ASP:O	1:N:235:PHE:HB2	2.17	0.45
1:E:12:GLN:HA	1:E:12:GLN:OE1	2.17	0.45
1:D:234:ASP:O	1:D:235:PHE:HB2	2.17	0.45
1:H:234:ASP:O	1:H:235:PHE:HB2	2.17	0.45
1:P:234:ASP:O	1:P:235:PHE:HB2	2.17	0.45
1:P:900:LEU:HA	1:P:900:LEU:HD23	1.75	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4:THR:CA	1:A:9:VAL:HG11	2.47	0.45
1:D:272:ALA:HB1	1:D:273:PRO:CD	2.47	0.45
1:L:272:ALA:HA	1:L:273:PRO:HD3	1.77	0.45
1:N:272:ALA:HB1	1:N:273:PRO:CD	2.47	0.45
1:C:272:ALA:HB1	1:C:273:PRO:CD	2.47	0.45
1:G:645:ARG:NH2	1:G:650:GLU:OE2	2.48	0.45
1:D:387:VAL:CG2	1:D:388:ARG:N	2.80	0.45
1:B:512:PHE:CE1	1:B:517:LYS:HG3	2.51	0.45
1:M:409:VAL:CG1	1:M:410:VAL:N	2.79	0.45
1:I:878:HIS:HA	1:I:879:PRO:HD3	1.66	0.45
1:P:722:LEU:HD23	1:P:722:LEU:HA	1.75	0.45
1:I:531:ARG:O	1:I:561:ARG:NH1	2.46	0.45
1:I:637:GLU:HA	1:I:679:LEU:CD2	2.47	0.45
1:D:668:VAL:HG13	1:D:669:PRO:CD	2.38	0.44
1:E:576:ILE:CG2	1:E:577:LYS:N	2.78	0.44
1:A:781:ARG:HG3	1:A:781:ARG:NH1	2.17	0.44
1:I:1021:CME:HE2	1:I:1021:CME:HB3	1.41	0.44
1:F:894:ARG:HH12	1:F:920:LEU:HA	1.81	0.44
1:H:254:LEU:HD23	1:H:254:LEU:HA	1.62	0.44
1:B:822:LEU:HD12	1:B:823:LEU:H	1.80	0.44
1:J:395:HIS:HA	1:J:396:PRO:HD3	1.48	0.44
1:L:210:ARG:HH12	1:L:394:ASN:C	2.20	0.44
1:O:49:GLN:CD	1:O:49:GLN:H	2.20	0.44
1:H:49:GLN:H	1:H:49:GLN:CD	2.20	0.44
1:M:78:LEU:HB3	1:M:79:PRO:CD	2.45	0.44
1:J:12:GLN:HA	1:J:12:GLN:OE1	2.17	0.44
1:J:4:THR:CA	1:J:9:VAL:HG11	2.47	0.44
1:K:343:LEU:HD23	1:K:348:PRO:HA	1.99	0.44
1:L:708:TRP:CD1	1:L:708:TRP:N	2.84	0.44
1:M:234:ASP:O	1:M:235:PHE:HB2	2.17	0.44
1:O:645:ARG:NH2	1:O:650:GLU:OE2	2.48	0.44
1:H:387:VAL:CG2	1:H:388:ARG:N	2.80	0.44
1:O:387:VAL:CG2	1:O:388:ARG:N	2.80	0.44
1:G:807:VAL:CG1	1:G:808:GLU:N	2.80	0.44
1:I:1018:LEU:HA	1:I:1018:LEU:HD23	1.51	0.44
1:B:73:TRP:O	1:B:183:ARG:NH1	2.48	0.44
1:D:608:PHE:O	1:D:611:ARG:N	2.41	0.44
1:A:608:PHE:O	1:A:611:ARG:N	2.41	0.44
1:P:571:VAL:HG13	1:P:607:VAL:HG23	1.99	0.44
1:D:571:VAL:HG13	1:D:607:VAL:HG23	1.99	0.44
1:H:571:VAL:HG13	1:H:607:VAL:HG23	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:571:VAL:HG13	1:A:607:VAL:HG23	1.99	0.44
1:G:409:VAL:CG1	1:G:410:VAL:N	2.79	0.44
1:D:637:GLU:HA	1:D:679:LEU:CD2	2.47	0.44
1:O:202:MET:HE3	1:O:202:MET:HB3	1.86	0.44
1:L:173:LEU:HD23	1:L:173:LEU:HA	1.69	0.44
1:E:757:GLN:HG2	1:E:757:GLN:O	2.12	0.44
1:L:202:MET:HE3	1:L:202:MET:HB3	1.84	0.44
1:P:264:GLU:HA	1:P:264:GLU:OE2	2.17	0.44
1:H:722:LEU:HA	1:H:722:LEU:HD23	1.75	0.44
1:I:743:SER:OG	1:I:744:GLU:N	2.49	0.44
1:N:746:ASP:HA	1:N:760:ARG:CG	2.39	0.44
1:B:749:ILE:CD1	1:B:749:ILE:N	2.78	0.44
1:F:7:LEU:O	1:F:8:ALA:C	2.55	0.44
1:B:781:ARG:O	1:B:884:LEU:HA	2.16	0.44
1:D:12:GLN:OE1	1:D:12:GLN:HA	2.17	0.44
1:C:92:MET:HE3	1:C:362:LEU:O	2.17	0.44
1:E:251:ARG:CB	1:E:253:TYR:CE2	2.98	0.44
1:M:894:ARG:HH12	1:M:920:LEU:HA	1.81	0.44
1:N:230:ARG:NH2	1:N:241:GLU:OE2	2.51	0.44
1:M:254:LEU:HD23	1:M:254:LEU:HA	1.62	0.44
1:D:63:PHE:CB	1:D:64:PRO:HD2	2.32	0.44
1:E:63:PHE:CB	1:E:64:PRO:HD2	2.32	0.44
1:G:254:LEU:HA	1:G:254:LEU:HD23	1.62	0.44
1:B:685:LEU:HB3	1:B:686:PRO:HD2	1.99	0.44
1:J:685:LEU:HA	1:J:686:PRO:HD3	1.70	0.44
1:B:34:ALA:HB3	1:B:36:TRP:CZ3	2.53	0.44
1:A:685:LEU:HB3	1:A:686:PRO:HD2	1.99	0.44
1:B:24:LEU:HA	1:B:24:LEU:HD12	1.62	0.44
1:N:260:LEU:HD12	1:N:260:LEU:HA	1.61	0.44
1:M:34:ALA:HB3	1:M:36:TRP:CZ3	2.53	0.44
1:J:701:VAL:CG1	1:J:702:GLN:N	2.81	0.44
1:K:701:VAL:HG12	1:K:702:GLN:H	1.83	0.44
1:K:79:PRO:HD2	1:K:80:GLU:OE2	2.17	0.44
1:G:78:LEU:HB3	1:G:79:PRO:CD	2.45	0.44
1:A:78:LEU:HB3	1:A:79:PRO:CD	2.45	0.44
1:A:708:TRP:CD1	1:A:708:TRP:N	2.84	0.44
1:L:4:THR:CA	1:L:9:VAL:HG11	2.47	0.44
1:B:343:LEU:HD23	1:B:348:PRO:HA	1.99	0.44
1:A:343:LEU:HD23	1:A:348:PRO:HA	1.99	0.44
1:N:343:LEU:HD23	1:N:348:PRO:HA	1.99	0.44
1:F:343:LEU:HD23	1:F:348:PRO:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:344:LEU:N	1:F:347:LYS:O	2.36	0.44
1:N:4:THR:CA	1:N:9:VAL:HG11	2.47	0.44
1:J:13:ARG:O	1:J:14:ARG:HB2	2.16	0.44
1:I:287:ASP:N	1:I:287:ASP:OD1	2.29	0.44
1:M:131:GLU:HA	1:M:134:LEU:HB2	2.00	0.44
1:K:387:VAL:CG2	1:K:388:ARG:N	2.80	0.44
1:K:272:ALA:HB1	1:K:273:PRO:CD	2.47	0.44
1:P:387:VAL:CG2	1:P:388:ARG:N	2.80	0.44
1:L:1018:LEU:HA	1:L:1018:LEU:HD23	1.51	0.44
1:O:807:VAL:CG1	1:O:808:GLU:N	2.79	0.44
1:L:807:VAL:CG1	1:L:808:GLU:N	2.79	0.44
1:D:131:GLU:HA	1:D:134:LEU:HB2	1.99	0.44
1:D:512:PHE:CE1	1:D:517:LYS:HG3	2.51	0.44
1:C:512:PHE:CE1	1:C:517:LYS:HG3	2.51	0.44
1:K:571:VAL:HG13	1:K:607:VAL:HG23	1.99	0.44
1:G:679:LEU:HA	1:G:679:LEU:HD23	1.26	0.44
1:I:99:ILE:HG23	1:I:594:ASP:HB2	1.98	0.44
1:L:100:TYR:HB2	1:L:203:TRP:CE3	2.51	0.44
1:M:479:ASP:HA	1:M:480:PRO:HD2	1.61	0.44
1:B:647:SER:OG	1:B:672:VAL:N	2.35	0.44
1:N:118:ASN:HA	1:N:119:PRO:HD2	1.60	0.44
1:B:722:LEU:HA	1:B:722:LEU:HD23	1.75	0.44
1:N:757:GLN:HG2	1:N:757:GLN:O	2.12	0.44
1:L:743:SER:OG	1:L:744:GLU:N	2.49	0.44
1:F:746:ASP:HA	1:F:760:ARG:CG	2.39	0.44
1:A:743:SER:OG	1:A:744:GLU:N	2.49	0.44
1:A:894:ARG:HH12	1:A:920:LEU:HA	1.81	0.44
1:I:781:ARG:CG	1:I:781:ARG:NH1	2.79	0.44
1:J:230:ARG:NH2	1:J:241:GLU:OE2	2.51	0.44
1:F:255:ARG:NH1	1:F:255:ARG:CG	2.79	0.44
1:O:825:CYS:HA	1:O:837:THR:O	2.17	0.44
1:L:685:LEU:HB3	1:L:686:PRO:HD2	1.99	0.44
1:K:682:LEU:HD23	1:K:682:LEU:HA	1.67	0.44
1:K:685:LEU:HB3	1:K:686:PRO:HD2	1.99	0.44
1:A:210:ARG:HH11	1:A:395:HIS:HB2	1.81	0.44
1:K:210:ARG:HH12	1:K:394:ASN:C	2.19	0.44
1:H:34:ALA:HB3	1:H:36:TRP:CZ3	2.53	0.44
1:A:260:LEU:HD12	1:A:260:LEU:HA	1.61	0.44
1:D:702:GLN:O	1:D:712:GLY:N	2.45	0.44
1:E:702:GLN:O	1:E:712:GLY:N	2.45	0.44
1:D:79:PRO:HD2	1:D:80:GLU:OE2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:576:ILE:CG2	1:C:577:LYS:N	2.78	0.44
1:H:377:LEU:HD22	1:H:708:TRP:CA	2.44	0.44
1:G:12:GLN:OE1	1:G:12:GLN:HA	2.17	0.44
1:G:4:THR:CA	1:G:9:VAL:HG11	2.47	0.44
1:O:3:ILE:O	1:O:6:SER:HB3	2.18	0.44
1:H:3:ILE:O	1:H:6:SER:HB3	2.18	0.44
1:O:347:LYS:CB	1:O:348:PRO:HD2	2.43	0.44
1:N:287:ASP:CG	1:O:425:ARG:NH2	2.71	0.44
1:N:12:GLN:HA	1:N:12:GLN:OE1	2.17	0.44
1:F:12:GLN:OE1	1:F:12:GLN:HA	2.17	0.44
1:P:730:LEU:HA	1:P:731:PRO:HD3	1.74	0.44
1:P:645:ARG:NH2	1:P:650:GLU:OE2	2.48	0.44
1:F:906:TYR:OH	1:F:934:GLU:OE2	2.30	0.44
1:E:387:VAL:CG2	1:E:388:ARG:N	2.80	0.44
1:E:131:GLU:HA	1:E:134:LEU:HB2	2.00	0.44
1:F:807:VAL:CG1	1:F:808:GLU:N	2.79	0.44
1:G:69:VAL:HA	1:G:70:PRO:HD2	1.77	0.44
1:A:73:TRP:O	1:A:183:ARG:NH1	2.48	0.44
1:C:637:GLU:HA	1:C:679:LEU:CD2	2.47	0.44
1:K:637:GLU:HA	1:K:679:LEU:CD2	2.47	0.44
1:P:486:TYR:CE2	1:P:488:GLY:HA3	2.51	0.44
1:N:670:LEU:HA	1:N:670:LEU:HD23	1.67	0.44
1:K:378:LEU:HD23	1:K:378:LEU:HA	1.53	0.44
1:I:772:ASP:OD1	1:I:772:ASP:N	2.30	0.44
1:D:202:MET:HE3	1:D:202:MET:HB3	1.83	0.44
1:K:749:ILE:N	1:K:749:ILE:CD1	2.78	0.44
1:N:743:SER:OG	1:N:744:GLU:N	2.49	0.44
1:G:743:SER:OG	1:G:744:GLU:N	2.49	0.44
1:L:230:ARG:NH2	1:L:241:GLU:OE2	2.51	0.44
1:N:825:CYS:HA	1:N:837:THR:O	2.17	0.44
1:G:24:LEU:HA	1:G:24:LEU:HD12	1.62	0.44
1:I:701:VAL:HG12	1:I:702:GLN:H	1.83	0.44
1:F:701:VAL:CG1	1:F:702:GLN:N	2.81	0.44
1:H:702:GLN:HA	1:H:703:PRO:HD2	1.84	0.44
1:I:658:LEU:HD12	1:I:693:GLN:O	2.18	0.44
1:I:78:LEU:HB3	1:I:79:PRO:CD	2.45	0.44
1:J:3:ILE:O	1:J:6:SER:HB3	2.18	0.44
1:P:343:LEU:HD23	1:P:348:PRO:HA	1.99	0.44
1:O:12:GLN:OE1	1:O:12:GLN:HA	2.17	0.44
1:B:12:GLN:HA	1:B:12:GLN:OE1	2.17	0.44
1:F:13:ARG:O	1:F:14:ARG:HB2	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:131:GLU:HA	1:K:134:LEU:HB2	1.99	0.44
1:I:571:VAL:HG13	1:I:607:VAL:HG23	1.99	0.44
1:H:164:ASP:OD2	1:H:167:LEU:HD12	2.18	0.44
1:E:164:ASP:OD2	1:E:167:LEU:HD12	2.18	0.44
1:G:164:ASP:OD2	1:G:167:LEU:HD12	2.18	0.44
1:P:378:LEU:HD23	1:P:378:LEU:HA	1.53	0.44
1:E:173:LEU:HD23	1:E:173:LEU:HA	1.69	0.44
1:N:637:GLU:HA	1:N:679:LEU:CD2	2.47	0.44
1:F:264:GLU:HA	1:F:264:GLU:OE2	2.17	0.44
1:O:788:PRO:O	1:O:933:SER:HB2	2.18	0.44
1:N:878:HIS:HA	1:N:879:PRO:HD3	1.66	0.44
1:H:43:ARG:NH1	1:H:44:THR:CG2	2.81	0.44
1:O:743:SER:OG	1:O:744:GLU:N	2.49	0.44
1:B:436:MET:HE3	1:B:467:ASN:ND2	2.21	0.44
1:H:749:ILE:CD1	1:H:749:ILE:N	2.78	0.44
1:A:743:SER:O	1:A:760:ARG:NH1	2.49	0.44
1:I:7:LEU:O	1:I:8:ALA:C	2.55	0.44
1:D:3:ILE:O	1:D:6:SER:HB3	2.18	0.44
1:B:894:ARG:HH12	1:B:920:LEU:HA	1.81	0.44
1:M:7:LEU:O	1:M:8:ALA:C	2.55	0.44
1:K:230:ARG:NH2	1:K:241:GLU:OE2	2.51	0.44
1:D:655:MET:HE3	1:D:655:MET:HB2	1.92	0.44
1:D:210:ARG:HH11	1:D:395:HIS:HB2	1.82	0.44
1:L:34:ALA:HB3	1:L:36:TRP:CZ3	2.53	0.44
1:F:34:ALA:HB3	1:F:36:TRP:CZ3	2.53	0.44
1:E:189:LEU:N	1:E:189:LEU:CD2	2.75	0.44
1:A:34:ALA:HB3	1:A:36:TRP:CZ3	2.53	0.44
1:L:658:LEU:HD12	1:L:693:GLN:O	2.18	0.44
1:M:701:VAL:CG1	1:M:702:GLN:N	2.81	0.44
1:I:49:GLN:CD	1:I:49:GLN:H	2.20	0.44
1:A:658:LEU:HD12	1:A:693:GLN:O	2.18	0.44
1:A:79:PRO:HD2	1:A:80:GLU:OE2	2.17	0.44
1:J:419:GLY:HA2	1:K:282:ARG:NH1	2.33	0.44
1:L:3:ILE:O	1:L:6:SER:HB3	2.18	0.44
1:H:343:LEU:HD23	1:H:348:PRO:HA	1.99	0.44
1:M:3:ILE:O	1:M:6:SER:HB3	2.18	0.44
1:I:343:LEU:HD23	1:I:348:PRO:HA	1.99	0.44
1:L:344:LEU:N	1:L:347:LYS:O	2.36	0.44
1:N:344:LEU:N	1:N:347:LYS:O	2.36	0.44
1:N:387:VAL:CG2	1:N:388:ARG:N	2.80	0.44
1:F:50:GLN:HB3	1:F:216:HIS:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:50:GLN:HB3	1:O:216:HIS:HB3	2.00	0.44
1:E:425:ARG:HH22	1:H:287:ASP:CG	2.21	0.44
1:F:409:VAL:CG1	1:F:410:VAL:N	2.79	0.44
1:K:486:TYR:CE2	1:K:488:GLY:HA3	2.51	0.44
1:D:111:PRO:HA	1:D:112:PRO:HA	1.57	0.44
1:F:111:PRO:HA	1:F:112:PRO:HA	1.57	0.44
1:J:264:GLU:HA	1:J:264:GLU:OE2	2.17	0.44
1:G:788:PRO:O	1:G:933:SER:HB2	2.18	0.44
1:L:43:ARG:NH1	1:L:44:THR:CG2	2.81	0.44
1:L:781:ARG:CG	1:L:781:ARG:NH1	2.79	0.44
1:O:251:ARG:CB	1:O:253:TYR:CE2	2.98	0.44
1:J:894:ARG:NH1	1:J:920:LEU:CA	2.81	0.44
1:L:894:ARG:NH1	1:L:920:LEU:CA	2.81	0.44
1:G:251:ARG:CB	1:G:253:TYR:CE2	2.98	0.44
1:J:825:CYS:HA	1:J:837:THR:O	2.17	0.44
1:C:825:CYS:HA	1:C:837:THR:O	2.17	0.44
1:N:685:LEU:HA	1:N:686:PRO:HD3	1.70	0.44
1:B:655:MET:HB2	1:B:655:MET:HE3	1.89	0.44
1:A:210:ARG:HH12	1:A:394:ASN:C	2.19	0.44
1:H:682:LEU:HD23	1:H:682:LEU:HA	1.67	0.44
1:O:34:ALA:HB3	1:O:36:TRP:CZ3	2.53	0.44
1:H:658:LEU:HD12	1:H:693:GLN:O	2.18	0.44
1:O:856:TYR:HD2	1:O:864:MET:CE	2.25	0.44
1:M:658:LEU:HD12	1:M:693:GLN:O	2.18	0.44
1:C:673:ALA:O	1:C:676:GLY:N	2.47	0.44
1:J:234:ASP:O	1:J:235:PHE:HB2	2.17	0.44
1:F:234:ASP:O	1:F:235:PHE:HB2	2.17	0.44
1:M:4:THR:CA	1:M:9:VAL:HG11	2.47	0.44
1:I:234:ASP:O	1:I:235:PHE:HB2	2.17	0.44
1:M:429:ASP:HA	1:M:430:PRO:HD3	1.51	0.44
1:A:131:GLU:HA	1:A:134:LEU:HB2	2.00	0.44
1:P:272:ALA:HB1	1:P:273:PRO:CD	2.47	0.44
1:H:272:ALA:HB1	1:H:273:PRO:CD	2.47	0.44
1:I:730:LEU:HA	1:I:731:PRO:HD3	1.74	0.44
1:G:50:GLN:HB3	1:G:216:HIS:HB3	2.00	0.44
1:E:70:PRO:O	1:E:73:TRP:N	2.45	0.44
1:G:73:TRP:O	1:G:183:ARG:NH1	2.48	0.44
1:P:164:ASP:OD2	1:P:167:LEU:HD12	2.18	0.44
1:N:164:ASP:OD2	1:N:167:LEU:HD12	2.18	0.44
1:K:788:PRO:O	1:K:933:SER:HB2	2.18	0.44
1:A:647:SER:OG	1:A:672:VAL:N	2.35	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:637:GLU:HA	1:H:679:LEU:CD2	2.47	0.44
1:F:637:GLU:HA	1:F:679:LEU:CD2	2.47	0.44
1:C:757:GLN:HG2	1:C:757:GLN:O	2.12	0.44
1:N:264:GLU:HA	1:N:264:GLU:OE2	2.17	0.44
1:M:43:ARG:NH1	1:M:44:THR:CG2	2.81	0.44
1:B:43:ARG:NH1	1:B:44:THR:CG2	2.81	0.44
1:C:749:ILE:CD1	1:C:749:ILE:N	2.78	0.44
1:A:749:ILE:N	1:A:749:ILE:CD1	2.78	0.44
1:C:7:LEU:O	1:C:8:ALA:C	2.55	0.44
1:F:360:HIS:HA	1:F:361:PRO:HD3	1.86	0.44
1:H:7:LEU:O	1:H:8:ALA:C	2.55	0.44
1:P:7:LEU:O	1:P:8:ALA:C	2.55	0.44
1:L:7:LEU:O	1:L:8:ALA:C	2.55	0.44
1:O:254:LEU:HD23	1:O:254:LEU:HA	1.62	0.44
1:C:533:LEU:HD12	1:C:534:ILE:N	2.33	0.44
1:I:825:CYS:HA	1:I:837:THR:O	2.17	0.44
1:H:685:LEU:HB3	1:H:686:PRO:HD2	1.99	0.44
1:M:419:GLY:CA	1:P:282:ARG:HH11	2.30	0.44
1:D:701:VAL:CG1	1:D:702:GLN:N	2.81	0.44
1:E:3:ILE:O	1:E:6:SER:HB3	2.18	0.44
1:O:234:ASP:O	1:O:235:PHE:HB2	2.17	0.44
1:O:730:LEU:HA	1:O:731:PRO:HD3	1.74	0.44
1:E:473:ARG:HD2	1:H:469:ASP:HB3	1.99	0.44
1:E:272:ALA:HB1	1:E:273:PRO:CD	2.47	0.44
1:C:645:ARG:NH2	1:C:650:GLU:OE2	2.48	0.44
1:N:50:GLN:HB3	1:N:216:HIS:HB3	2.00	0.44
1:M:73:TRP:O	1:M:183:ARG:NH1	2.48	0.44
1:F:571:VAL:HG13	1:F:607:VAL:HG23	1.99	0.44
1:B:164:ASP:OD2	1:B:167:LEU:HD12	2.18	0.44
1:P:637:GLU:HA	1:P:679:LEU:CD2	2.47	0.44
1:C:874:SER:HB3	1:D:724:GLU:OE1	2.18	0.44
1:C:961:ARG:NH2	1:C:979:GLU:O	2.38	0.44
1:E:972:HIS:HB3	5:E:2155:HOH:O	2.18	0.44
1:A:637:GLU:HA	1:A:679:LEU:CD2	2.47	0.44
1:M:378:LEU:HA	1:M:378:LEU:HD23	1.53	0.44
1:A:972:HIS:HB3	5:A:2155:HOH:O	2.18	0.44
1:N:788:PRO:O	1:N:933:SER:HB2	2.18	0.44
1:O:43:ARG:NH1	1:O:44:THR:CG2	2.81	0.44
1:F:43:ARG:NH1	1:F:44:THR:CG2	2.81	0.44
1:G:43:ARG:NH1	1:G:44:THR:CG2	2.81	0.44
1:P:287:ASP:OD1	1:P:287:ASP:N	2.29	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:57:GLU:HG2	1:E:83:THR:HG21	1.94	0.44
1:H:576:ILE:CG2	1:H:577:LYS:N	2.78	0.44
1:G:583:ASN:HA	1:G:584:PRO:HD3	1.79	0.44
1:K:894:ARG:NH1	1:K:920:LEU:CA	2.81	0.44
1:I:894:ARG:HH12	1:I:920:LEU:HA	1.81	0.44
1:M:230:ARG:NH2	1:M:241:GLU:OE2	2.51	0.44
1:H:227:VAL:CG1	1:H:240:LEU:HD11	2.42	0.44
1:J:822:LEU:HD12	1:J:823:LEU:H	1.80	0.44
1:H:825:CYS:HA	1:H:837:THR:O	2.17	0.44
1:I:822:LEU:HD12	1:I:822:LEU:C	2.37	0.44
1:G:533:LEU:HD12	1:G:534:ILE:N	2.33	0.44
1:B:533:LEU:HD12	1:B:534:ILE:N	2.33	0.44
1:N:34:ALA:HB3	1:N:36:TRP:CZ3	2.53	0.44
1:A:702:GLN:O	1:A:712:GLY:N	2.45	0.44
1:K:78:LEU:CB	1:K:79:PRO:HD2	2.44	0.44
1:C:78:LEU:HB3	1:C:79:PRO:CD	2.45	0.44
1:K:673:ALA:O	1:K:676:GLY:N	2.47	0.44
1:P:658:LEU:HD12	1:P:693:GLN:O	2.18	0.44
1:B:658:LEU:HD12	1:B:693:GLN:O	2.18	0.44
1:D:129:VAL:CG2	1:D:182:ASN:ND2	2.77	0.44
1:B:900:LEU:HD23	1:B:900:LEU:HA	1.75	0.44
1:B:344:LEU:N	1:B:347:LYS:O	2.36	0.44
1:F:429:ASP:OD1	1:F:431:ARG:HD3	2.18	0.44
1:M:272:ALA:HB1	1:M:273:PRO:CD	2.47	0.44
1:L:645:ARG:NH2	1:L:650:GLU:OE2	2.48	0.44
1:A:429:ASP:OD1	1:A:431:ARG:HD3	2.18	0.44
1:M:387:VAL:CG2	1:M:388:ARG:N	2.80	0.44
1:O:429:ASP:OD1	1:O:431:ARG:HD3	2.18	0.44
1:F:387:VAL:CG2	1:F:388:ARG:N	2.80	0.44
1:M:50:GLN:HB3	1:M:216:HIS:HB3	2.00	0.44
1:J:70:PRO:O	1:J:73:TRP:N	2.45	0.44
1:A:559:TYR:HA	1:A:560:PRO:HD2	1.73	0.44
1:O:571:VAL:HG13	1:O:607:VAL:HG23	1.99	0.44
1:A:164:ASP:OD2	1:A:167:LEU:HD12	2.18	0.44
1:D:164:ASP:OD2	1:D:167:LEU:HD12	2.18	0.44
1:O:164:ASP:OD2	1:O:167:LEU:HD12	2.18	0.44
1:O:406:GLY:O	1:O:407:LEU:HD23	2.18	0.44
1:C:391:HIS:ND1	1:C:412:GLU:OE1	2.44	0.44
1:K:111:PRO:HA	1:K:112:PRO:HA	1.57	0.44
1:J:406:GLY:O	1:J:407:LEU:HD23	2.18	0.44
1:F:788:PRO:O	1:F:933:SER:HB2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:406:GLY:O	1:K:407:LEU:HD23	2.18	0.44
1:L:406:GLY:O	1:L:407:LEU:HD23	2.18	0.44
1:O:173:LEU:HD23	1:O:173:LEU:HA	1.69	0.44
1:F:507:ASP:C	1:F:519:SER:HB2	2.39	0.44
1:B:788:PRO:O	1:B:933:SER:HB2	2.18	0.44
1:I:111:PRO:HA	1:I:112:PRO:HA	1.57	0.44
1:A:43:ARG:NH1	1:A:44:THR:CG2	2.81	0.44
1:C:43:ARG:NH1	1:C:44:THR:CG2	2.81	0.44
1:E:43:ARG:NH1	1:E:44:THR:CG2	2.81	0.44
1:O:583:ASN:HA	1:O:584:PRO:HD3	1.79	0.44
1:J:781:ARG:NH1	1:J:781:ARG:CG	2.79	0.44
1:C:360:HIS:HA	1:C:361:PRO:HD3	1.86	0.44
1:B:1021:CME:HB3	1:B:1021:CME:HE2	1.41	0.44
1:P:894:ARG:NH1	1:P:920:LEU:CA	2.81	0.44
1:O:894:ARG:NH1	1:O:920:LEU:CA	2.81	0.44
1:I:894:ARG:NH1	1:I:920:LEU:CA	2.81	0.44
1:O:67:GLU:H	1:O:67:GLU:HG2	1.30	0.44
1:N:254:LEU:HD23	1:N:254:LEU:HA	1.62	0.44
1:F:63:PHE:N	1:F:63:PHE:CD1	2.86	0.44
1:J:63:PHE:CB	1:J:64:PRO:HD2	2.32	0.44
1:A:533:LEU:HD12	1:A:534:ILE:N	2.33	0.44
1:D:685:LEU:HB3	1:D:686:PRO:HD2	1.99	0.44
1:L:533:LEU:HD12	1:L:534:ILE:N	2.33	0.44
1:D:210:ARG:HH12	1:D:394:ASN:C	2.20	0.44
1:O:533:LEU:HD12	1:O:534:ILE:N	2.33	0.44
1:K:34:ALA:HB3	1:K:36:TRP:CZ3	2.53	0.44
1:F:533:LEU:HD12	1:F:534:ILE:N	2.33	0.44
1:J:24:LEU:HD12	1:J:24:LEU:HA	1.62	0.44
1:A:701:VAL:CG1	1:A:702:GLN:N	2.81	0.44
1:O:701:VAL:CG1	1:O:702:GLN:N	2.81	0.44
1:K:658:LEU:HD12	1:K:693:GLN:O	2.18	0.44
1:I:708:TRP:CD1	1:I:708:TRP:N	2.84	0.44
1:L:234:ASP:O	1:L:235:PHE:HB2	2.17	0.44
1:P:272:ALA:HA	1:P:273:PRO:HD3	1.76	0.44
1:I:387:VAL:CG2	1:I:388:ARG:N	2.80	0.44
1:M:35:SER:O	1:M:50:GLN:HG3	2.18	0.44
1:F:131:GLU:HA	1:F:134:LEU:HB2	2.00	0.44
1:N:131:GLU:HA	1:N:134:LEU:HB2	1.99	0.44
1:N:35:SER:O	1:N:50:GLN:HG3	2.18	0.44
1:P:870:VAL:CG1	1:P:871:GLU:N	2.81	0.44
1:K:870:VAL:CG1	1:K:871:GLU:N	2.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:559:TYR:HA	1:P:560:PRO:HD2	1.73	0.44
1:G:571:VAL:HG13	1:G:607:VAL:HG23	2.00	0.44
1:P:118:ASN:HA	1:P:119:PRO:HD2	1.60	0.44
1:E:788:PRO:O	1:E:933:SER:HB2	2.18	0.44
1:L:788:PRO:O	1:L:933:SER:HB2	2.18	0.44
1:M:757:GLN:O	1:M:757:GLN:HG2	2.12	0.44
1:L:507:ASP:C	1:L:519:SER:HB2	2.39	0.44
1:A:878:HIS:HA	1:A:879:PRO:HD3	1.66	0.44
1:M:972:HIS:HB3	5:M:2155:HOH:O	2.18	0.44
1:G:972:HIS:HB3	5:G:2155:HOH:O	2.18	0.44
1:H:46:ARG:HB3	1:H:47:PRO:HD2	2.00	0.43
1:A:57:GLU:HG2	1:A:83:THR:HG21	1.93	0.43
1:P:576:ILE:CG2	1:P:577:LYS:N	2.78	0.43
1:N:360:HIS:HA	1:N:361:PRO:HD3	1.86	0.43
1:A:7:LEU:O	1:A:8:ALA:C	2.55	0.43
1:C:894:ARG:NH1	1:C:920:LEU:CA	2.81	0.43
1:G:63:PHE:CD1	1:G:63:PHE:N	2.86	0.43
1:E:63:PHE:N	1:E:63:PHE:CD1	2.86	0.43
1:I:685:LEU:HB3	1:I:686:PRO:HD2	1.99	0.43
1:P:685:LEU:HB3	1:P:686:PRO:HD2	1.99	0.43
1:P:210:ARG:HH11	1:P:395:HIS:HB2	1.82	0.43
1:P:260:LEU:HA	1:P:260:LEU:HD12	1.61	0.43
1:J:34:ALA:HB3	1:J:36:TRP:CZ3	2.53	0.43
1:L:260:LEU:HD12	1:L:260:LEU:HA	1.61	0.43
1:G:34:ALA:HB3	1:G:36:TRP:CZ3	2.53	0.43
1:E:34:ALA:HB3	1:E:36:TRP:CZ3	2.53	0.43
1:L:661:LYS:HA	1:L:662:PRO:HD3	1.63	0.43
1:F:702:GLN:O	1:F:712:GLY:N	2.45	0.43
1:G:856:TYR:HD2	1:G:864:MET:CE	2.25	0.43
1:K:3:ILE:O	1:K:6:SER:HB3	2.18	0.43
1:J:658:LEU:HD12	1:J:693:GLN:O	2.18	0.43
1:F:708:TRP:N	1:F:708:TRP:CD1	2.84	0.43
1:C:234:ASP:O	1:C:235:PHE:HB2	2.17	0.43
1:K:234:ASP:O	1:K:235:PHE:HB2	2.17	0.43
1:G:347:LYS:CB	1:G:348:PRO:HD2	2.43	0.43
1:A:3:ILE:O	1:A:6:SER:HB3	2.18	0.43
1:N:3:ILE:O	1:N:6:SER:HB3	2.18	0.43
1:L:50:GLN:HB3	1:L:216:HIS:HB3	2.00	0.43
1:E:50:GLN:HB3	1:E:216:HIS:HB3	2.00	0.43
1:P:131:GLU:HA	1:P:134:LEU:HB2	2.00	0.43
1:H:73:TRP:O	1:H:183:ARG:NH1	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:70:PRO:O	1:N:73:TRP:N	2.45	0.43
1:N:571:VAL:HG13	1:N:607:VAL:HG23	2.00	0.43
1:C:571:VAL:HG13	1:C:607:VAL:HG23	2.00	0.43
1:F:164:ASP:OD2	1:F:167:LEU:HD12	2.18	0.43
1:K:164:ASP:OD2	1:K:167:LEU:HD12	2.18	0.43
1:L:149:ALA:O	1:L:150:PHE:HB3	2.18	0.43
1:E:406:GLY:O	1:E:407:LEU:HD23	2.18	0.43
1:K:507:ASP:C	1:K:519:SER:HB2	2.39	0.43
1:C:378:LEU:HA	1:C:378:LEU:HD23	1.53	0.43
1:P:200:GLN:N	1:P:200:GLN:OE1	2.44	0.43
1:F:670:LEU:HA	1:F:670:LEU:HD23	1.67	0.43
1:M:670:LEU:HD23	1:M:670:LEU:HA	1.67	0.43
1:A:507:ASP:C	1:A:519:SER:HB2	2.39	0.43
1:A:147:ASN:HA	1:A:148:SER:HA	1.55	0.43
1:L:972:HIS:HB3	5:L:2155:HOH:O	2.18	0.43
1:H:507:ASP:C	1:H:519:SER:HB2	2.39	0.43
1:J:43:ARG:NH1	1:J:44:THR:CG2	2.81	0.43
1:A:436:MET:HE1	1:A:467:ASN:HB2	2.00	0.43
1:J:46:ARG:HB3	1:J:47:PRO:HD2	2.01	0.43
1:P:46:ARG:HB3	1:P:47:PRO:HD2	2.00	0.43
1:A:360:HIS:HA	1:A:361:PRO:HD3	1.86	0.43
1:D:894:ARG:NH1	1:D:920:LEU:CA	2.81	0.43
1:H:894:ARG:NH1	1:H:920:LEU:CA	2.81	0.43
1:A:894:ARG:NH1	1:A:920:LEU:CA	2.81	0.43
1:E:894:ARG:NH1	1:E:920:LEU:CA	2.81	0.43
1:M:894:ARG:NH1	1:M:920:LEU:CA	2.81	0.43
1:G:230:ARG:NH2	1:G:241:GLU:OE2	2.50	0.43
1:K:63:PHE:N	1:K:63:PHE:CD1	2.86	0.43
1:P:63:PHE:CD1	1:P:63:PHE:N	2.86	0.43
1:N:63:PHE:CD1	1:N:63:PHE:N	2.86	0.43
1:L:63:PHE:N	1:L:63:PHE:CD1	2.86	0.43
1:D:533:LEU:HD12	1:D:534:ILE:N	2.33	0.43
1:K:533:LEU:HD12	1:K:534:ILE:N	2.33	0.43
1:C:685:LEU:HB3	1:C:686:PRO:HD2	1.99	0.43
1:N:533:LEU:HD12	1:N:534:ILE:N	2.33	0.43
1:I:533:LEU:HD12	1:I:534:ILE:N	2.33	0.43
1:E:658:LEU:HD12	1:E:693:GLN:O	2.18	0.43
1:I:419:GLY:HA2	1:L:282:ARG:HH11	1.83	0.43
1:L:49:GLN:CD	1:L:49:GLN:H	2.20	0.43
1:N:658:LEU:HD12	1:N:693:GLN:O	2.18	0.43
1:C:4:THR:CA	1:C:9:VAL:HG11	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4:THR:CA	1:E:9:VAL:HG11	2.47	0.43
1:P:347:LYS:CB	1:P:348:PRO:HD2	2.43	0.43
1:P:3:ILE:O	1:P:6:SER:HB3	2.18	0.43
1:K:237:ARG:NH1	1:K:237:ARG:CG	2.82	0.43
1:F:3:ILE:O	1:F:6:SER:HB3	2.18	0.43
1:D:429:ASP:OD1	1:D:431:ARG:HD3	2.18	0.43
1:M:645:ARG:NH2	1:M:650:GLU:OE2	2.48	0.43
1:J:429:ASP:OD1	1:J:431:ARG:HD3	2.18	0.43
1:H:35:SER:O	1:H:50:GLN:HG3	2.18	0.43
1:B:35:SER:O	1:B:50:GLN:HG3	2.18	0.43
1:B:50:GLN:HB3	1:B:216:HIS:HB3	2.00	0.43
1:E:35:SER:O	1:E:50:GLN:HG3	2.18	0.43
1:O:73:TRP:O	1:O:183:ARG:NH1	2.48	0.43
1:L:512:PHE:CE1	1:L:517:LYS:HG3	2.51	0.43
1:J:870:VAL:CG1	1:J:871:GLU:N	2.81	0.43
1:B:571:VAL:HG13	1:B:607:VAL:HG23	1.99	0.43
1:H:637:GLU:HA	1:H:679:LEU:HD23	2.01	0.43
1:P:637:GLU:HA	1:P:679:LEU:HD23	2.01	0.43
1:P:406:GLY:O	1:P:407:LEU:HD23	2.18	0.43
1:D:406:GLY:O	1:D:407:LEU:HD23	2.18	0.43
1:P:507:ASP:C	1:P:519:SER:HB2	2.39	0.43
1:F:961:ARG:NH2	1:F:979:GLU:O	2.37	0.43
1:H:647:SER:OG	1:H:672:VAL:N	2.35	0.43
1:A:788:PRO:O	1:A:933:SER:HB2	2.18	0.43
1:E:961:ARG:NH2	1:E:979:GLU:O	2.37	0.43
1:E:149:ALA:O	1:E:150:PHE:HB3	2.18	0.43
1:N:378:LEU:HD23	1:N:378:LEU:HA	1.53	0.43
1:A:757:GLN:HG2	1:A:757:GLN:O	2.12	0.43
1:M:149:ALA:O	1:M:150:PHE:HB3	2.18	0.43
1:F:718:GLN:HG3	1:F:719:GLN:N	2.34	0.43
1:H:961:ARG:NH2	1:H:979:GLU:O	2.37	0.43
1:K:668:VAL:HG13	1:K:669:PRO:CD	2.38	0.43
1:A:583:ASN:HA	1:A:584:PRO:HD3	1.79	0.43
1:O:1021:CME:HZ3	1:O:1022:GLN:O	2.19	0.43
1:O:230:ARG:NH2	1:O:241:GLU:OE2	2.51	0.43
1:F:230:ARG:NH2	1:F:241:GLU:OE2	2.51	0.43
1:K:763:GLY:HA3	1:K:822:LEU:HD22	2.01	0.43
1:E:230:ARG:NH2	1:E:241:GLU:OE2	2.51	0.43
1:M:63:PHE:CD1	1:M:63:PHE:N	2.86	0.43
1:M:685:LEU:HB3	1:M:686:PRO:HD2	1.99	0.43
1:D:210:ARG:HH11	1:D:395:HIS:CA	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:34:ALA:HB3	1:I:36:TRP:CZ3	2.53	0.43
1:M:189:LEU:N	1:M:189:LEU:CD2	2.75	0.43
1:K:4:THR:CA	1:K:9:VAL:HG11	2.47	0.43
1:I:3:ILE:O	1:I:6:SER:HB3	2.18	0.43
1:N:237:ARG:NH1	1:N:237:ARG:CG	2.82	0.43
1:F:237:ARG:CG	1:F:237:ARG:NH1	2.82	0.43
1:F:4:THR:CA	1:F:9:VAL:HG11	2.47	0.43
1:K:778:THR:HB	1:K:887:GLN:CB	2.48	0.43
1:C:429:ASP:OD1	1:C:431:ARG:HD3	2.18	0.43
1:C:778:THR:HB	1:C:887:GLN:CB	2.49	0.43
1:B:429:ASP:OD1	1:B:431:ARG:HD3	2.18	0.43
1:F:778:THR:HB	1:F:887:GLN:CB	2.48	0.43
1:B:131:GLU:HA	1:B:134:LEU:HB2	1.99	0.43
1:H:131:GLU:HA	1:H:134:LEU:HB2	2.00	0.43
1:I:50:GLN:HB3	1:I:216:HIS:HB3	2.00	0.43
1:K:35:SER:O	1:K:50:GLN:HG3	2.18	0.43
1:M:1018:LEU:HA	1:M:1018:LEU:HD23	1.51	0.43
1:D:70:PRO:O	1:D:73:TRP:N	2.45	0.43
1:C:164:ASP:OD2	1:C:167:LEU:HD12	2.18	0.43
1:B:149:ALA:O	1:B:150:PHE:HB3	2.18	0.43
1:F:972:HIS:HB3	5:F:2155:HOH:O	2.18	0.43
1:C:149:ALA:O	1:C:150:PHE:HB3	2.18	0.43
1:J:507:ASP:C	1:J:519:SER:HB2	2.39	0.43
1:D:972:HIS:HB3	5:D:2161:HOH:O	2.18	0.43
1:K:694:LEU:HA	1:K:694:LEU:HD12	1.69	0.43
1:H:375:ASP:O	1:H:379:MET:HG3	2.19	0.43
1:K:961:ARG:NH2	1:K:979:GLU:O	2.37	0.43
1:C:476:LYS:HD2	1:C:476:LYS:HA	1.81	0.43
1:A:694:LEU:HA	1:A:694:LEU:HD12	1.69	0.43
1:G:722:LEU:HA	1:G:722:LEU:HD23	1.75	0.43
1:G:757:GLN:HG2	1:G:757:GLN:O	2.12	0.43
1:I:726:LEU:HA	1:I:726:LEU:HD23	1.66	0.43
1:I:363:HIS:N	1:I:363:HIS:CD2	2.81	0.43
1:G:406:GLY:O	1:G:407:LEU:HD23	2.18	0.43
1:N:43:ARG:NH1	1:N:44:THR:CG2	2.81	0.43
1:M:57:GLU:HG2	1:M:83:THR:HG21	1.93	0.43
1:N:1021:CME:HB3	1:N:1021:CME:HE2	1.41	0.43
1:F:894:ARG:NH1	1:F:920:LEU:CA	2.81	0.43
1:A:230:ARG:HH11	1:A:230:ARG:CG	2.24	0.43
1:A:230:ARG:NH2	1:A:241:GLU:OE2	2.50	0.43
1:C:63:PHE:N	1:C:63:PHE:CD1	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:210:ARG:HH11	1:J:395:HIS:CA	2.32	0.43
1:M:533:LEU:HD12	1:M:534:ILE:N	2.33	0.43
1:A:210:ARG:HH11	1:A:395:HIS:CA	2.32	0.43
1:E:685:LEU:HB3	1:E:686:PRO:HD2	1.99	0.43
1:B:189:LEU:N	1:B:189:LEU:CD2	2.75	0.43
1:I:138:GLN:N	1:I:217:LYS:O	2.36	0.43
1:C:34:ALA:HB3	1:C:36:TRP:CZ3	2.53	0.43
1:N:37:ARG:NH1	1:N:37:ARG:CG	2.79	0.43
1:K:701:VAL:CG1	1:K:702:GLN:N	2.81	0.43
1:E:49:GLN:H	1:E:49:GLN:CD	2.20	0.43
1:C:658:LEU:HD12	1:C:693:GLN:O	2.18	0.43
1:F:658:LEU:HD12	1:F:693:GLN:O	2.18	0.43
1:N:422:PRO:HA	1:O:282:ARG:HB2	1.99	0.43
1:E:708:TRP:N	1:E:708:TRP:CD1	2.84	0.43
1:C:237:ARG:CG	1:C:237:ARG:NH1	2.81	0.43
1:M:347:LYS:CB	1:M:348:PRO:HD2	2.43	0.43
1:H:429:ASP:OD1	1:H:431:ARG:HD3	2.18	0.43
1:H:645:ARG:NH2	1:H:650:GLU:OE2	2.48	0.43
1:E:778:THR:HB	1:E:887:GLN:CB	2.48	0.43
1:A:272:ALA:HB1	1:A:273:PRO:CD	2.47	0.43
1:A:35:SER:O	1:A:50:GLN:HG3	2.18	0.43
1:K:50:GLN:HB3	1:K:216:HIS:HB3	2.00	0.43
1:M:870:VAL:CG1	1:M:871:GLU:N	2.81	0.43
1:A:70:PRO:O	1:A:73:TRP:N	2.45	0.43
1:H:870:VAL:CG1	1:H:871:GLU:N	2.81	0.43
1:E:571:VAL:HG13	1:E:607:VAL:HG23	1.99	0.43
1:E:559:TYR:HA	1:E:560:PRO:HD2	1.73	0.43
1:M:164:ASP:OD2	1:M:167:LEU:HD12	2.18	0.43
1:B:637:GLU:HA	1:B:679:LEU:HD23	2.01	0.43
1:J:637:GLU:HA	1:J:679:LEU:HD23	2.01	0.43
1:K:722:LEU:HA	1:K:722:LEU:HD23	1.75	0.43
1:B:972:HIS:HB3	5:B:2158:HOH:O	2.18	0.43
1:C:878:HIS:HA	1:C:879:PRO:HD3	1.66	0.43
1:C:788:PRO:O	1:C:933:SER:HB2	2.18	0.43
1:C:722:LEU:HA	1:C:722:LEU:HD23	1.75	0.43
1:C:507:ASP:C	1:C:519:SER:HB2	2.39	0.43
1:P:788:PRO:O	1:P:933:SER:HB2	2.18	0.43
1:D:788:PRO:O	1:D:933:SER:HB2	2.18	0.43
1:A:375:ASP:O	1:A:379:MET:HG3	2.19	0.43
1:F:110:ASN:O	1:F:113:PHE:HB2	2.19	0.43
1:O:757:GLN:HG2	1:O:757:GLN:O	2.12	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:367:MET:HB3	1:H:367:MET:HE2	1.89	0.43
1:G:507:ASP:C	1:G:519:SER:HB2	2.38	0.43
1:G:149:ALA:O	1:G:150:PHE:HB3	2.18	0.43
1:H:406:GLY:O	1:H:407:LEU:HD23	2.18	0.43
1:K:647:SER:OG	1:K:672:VAL:N	2.35	0.43
1:N:149:ALA:O	1:N:150:PHE:HB3	2.18	0.43
1:B:507:ASP:C	1:B:519:SER:HB2	2.39	0.43
1:F:46:ARG:HB3	1:F:47:PRO:HD2	2.00	0.43
1:N:46:ARG:HB3	1:N:47:PRO:HD2	2.00	0.43
1:E:1021:CME:HE2	1:E:1021:CME:HB3	1.41	0.43
1:B:210:ARG:HH11	1:B:395:HIS:CA	2.32	0.43
1:E:655:MET:HE3	1:E:655:MET:HB2	1.92	0.43
1:J:533:LEU:HD12	1:J:534:ILE:N	2.33	0.43
1:I:336:ARG:CG	1:I:336:ARG:HH11	2.26	0.43
1:N:701:VAL:HG12	1:N:702:GLN:H	1.83	0.43
1:B:701:VAL:CG1	1:B:702:GLN:N	2.81	0.43
1:N:49:GLN:CD	1:N:49:GLN:H	2.20	0.43
1:D:658:LEU:HD12	1:D:693:GLN:O	2.18	0.43
1:C:3:ILE:O	1:C:6:SER:HB3	2.18	0.43
1:G:237:ARG:NH1	1:G:237:ARG:CG	2.82	0.43
1:B:3:ILE:O	1:B:6:SER:HB3	2.18	0.43
1:B:272:ALA:HB1	1:B:273:PRO:CD	2.47	0.43
1:I:429:ASP:HA	1:I:430:PRO:HD3	1.51	0.43
1:N:429:ASP:OD1	1:N:431:ARG:HD3	2.18	0.43
1:G:70:PRO:O	1:G:73:TRP:N	2.45	0.43
1:E:807:VAL:HG13	1:E:808:GLU:N	2.34	0.43
1:F:870:VAL:CG1	1:F:871:GLU:N	2.81	0.43
1:L:870:VAL:CG1	1:L:871:GLU:N	2.81	0.43
1:O:637:GLU:HA	1:O:679:LEU:HD23	2.01	0.43
1:G:637:GLU:HA	1:G:679:LEU:HD23	2.01	0.43
1:O:149:ALA:O	1:O:150:PHE:HB3	2.18	0.43
1:J:788:PRO:O	1:J:933:SER:HB2	2.18	0.43
1:G:646:HIS:O	1:G:648:ASP:N	2.47	0.43
1:J:149:ALA:O	1:J:150:PHE:HB3	2.18	0.43
1:D:507:ASP:C	1:D:519:SER:HB2	2.39	0.43
1:D:378:LEU:HD23	1:D:378:LEU:HA	1.53	0.43
1:F:378:LEU:HA	1:F:378:LEU:HD23	1.53	0.43
1:N:173:LEU:HA	1:N:173:LEU:HD23	1.69	0.43
1:M:287:ASP:N	1:M:287:ASP:OD1	2.29	0.43
1:B:111:PRO:HA	1:B:112:PRO:HA	1.57	0.43
1:P:375:ASP:O	1:P:379:MET:HG3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:406:GLY:O	1:B:407:LEU:HD23	2.18	0.43
1:K:436:MET:HE1	1:K:467:ASN:HB2	2.00	0.43
1:K:46:ARG:HB3	1:K:47:PRO:HD2	2.00	0.43
1:H:251:ARG:CB	1:H:253:TYR:CE2	2.98	0.43
1:A:419:GLY:O	1:D:282:ARG:NH1	2.51	0.43
1:F:1021:CME:HZ3	1:F:1022:GLN:O	2.19	0.43
1:B:895:VAL:O	1:B:919:ASP:HA	2.19	0.43
1:I:895:VAL:O	1:I:919:ASP:HA	2.19	0.43
1:O:63:PHE:CD1	1:O:63:PHE:N	2.86	0.43
1:L:823:LEU:HA	1:L:823:LEU:HD23	1.73	0.43
1:J:823:LEU:HD23	1:J:823:LEU:HA	1.73	0.43
1:D:763:GLY:HA3	1:D:822:LEU:HD22	2.01	0.43
1:J:63:PHE:CD1	1:J:63:PHE:N	2.86	0.43
1:F:685:LEU:HA	1:F:686:PRO:HD3	1.70	0.43
1:O:682:LEU:HA	1:O:682:LEU:HD23	1.67	0.43
1:E:533:LEU:HD12	1:E:534:ILE:N	2.33	0.43
1:J:685:LEU:HB3	1:J:686:PRO:HD2	1.99	0.43
1:C:701:VAL:CG1	1:C:702:GLN:N	2.81	0.43
1:F:701:VAL:HG12	1:F:702:GLN:H	1.83	0.43
1:F:702:GLN:HA	1:F:703:PRO:HD2	1.84	0.43
1:L:673:ALA:O	1:L:676:GLY:N	2.47	0.43
1:A:673:ALA:O	1:A:676:GLY:N	2.47	0.43
1:G:658:LEU:HD12	1:G:693:GLN:O	2.18	0.43
1:N:708:TRP:CD1	1:N:708:TRP:N	2.84	0.43
1:H:347:LYS:CB	1:H:348:PRO:HD2	2.43	0.43
1:B:347:LYS:HA	1:B:348:PRO:HD3	1.77	0.43
1:B:599:ARG:HB2	1:B:600:GLN:H	1.41	0.43
1:C:599:ARG:HB2	1:C:600:GLN:H	1.41	0.43
1:L:778:THR:HB	1:L:887:GLN:CB	2.49	0.43
1:G:272:ALA:HB1	1:G:273:PRO:CD	2.47	0.43
1:J:778:THR:HB	1:J:887:GLN:CB	2.48	0.43
1:K:429:ASP:OD1	1:K:431:ARG:HD3	2.18	0.43
1:C:50:GLN:HB3	1:C:216:HIS:HB3	2.00	0.43
1:N:807:VAL:HG13	1:N:808:GLU:N	2.34	0.43
1:I:70:PRO:O	1:I:73:TRP:N	2.45	0.43
1:M:571:VAL:HG13	1:M:607:VAL:HG23	1.99	0.43
1:I:870:VAL:CG1	1:I:871:GLU:N	2.81	0.43
1:D:870:VAL:CG1	1:D:871:GLU:N	2.81	0.43
1:O:559:TYR:HA	1:O:560:PRO:HD2	1.73	0.43
1:J:164:ASP:OD2	1:J:167:LEU:HD12	2.18	0.43
1:M:637:GLU:HA	1:M:679:LEU:HD23	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:375:ASP:O	1:C:379:MET:HG3	2.19	0.43
1:O:507:ASP:C	1:O:519:SER:HB2	2.39	0.43
1:I:507:ASP:C	1:I:519:SER:HB2	2.38	0.43
1:M:406:GLY:O	1:M:407:LEU:HD23	2.18	0.43
1:O:646:HIS:O	1:O:648:ASP:N	2.48	0.43
1:J:375:ASP:O	1:J:379:MET:HG3	2.19	0.43
1:P:43:ARG:NH1	1:P:44:THR:CG2	2.81	0.43
1:K:43:ARG:NH1	1:K:44:THR:CG2	2.81	0.43
1:G:745:MET:HE3	1:G:745:MET:N	2.33	0.43
1:O:436:MET:HE1	1:O:467:ASN:HB2	2.01	0.43
1:J:651:LEU:HD12	1:J:668:VAL:O	2.19	0.43
1:N:651:LEU:HD12	1:N:668:VAL:O	2.19	0.43
1:H:651:LEU:HD12	1:H:668:VAL:O	2.19	0.43
1:E:7:LEU:O	1:E:8:ALA:C	2.55	0.43
1:C:251:ARG:CB	1:C:253:TYR:CE2	2.98	0.43
1:A:895:VAL:O	1:A:919:ASP:HA	2.19	0.43
1:D:1021:CME:HZ3	1:D:1022:GLN:O	2.19	0.43
1:L:895:VAL:O	1:L:919:ASP:HA	2.19	0.43
1:A:1021:CME:HZ3	1:A:1022:GLN:O	2.19	0.43
1:C:1021:CME:HZ3	1:C:1022:GLN:O	2.19	0.43
1:H:63:PHE:CD1	1:H:63:PHE:N	2.86	0.43
1:B:63:PHE:N	1:B:63:PHE:CD1	2.86	0.43
1:C:230:ARG:NH2	1:C:241:GLU:OE2	2.50	0.43
1:I:63:PHE:CD1	1:I:63:PHE:N	2.86	0.43
1:D:63:PHE:N	1:D:63:PHE:CD1	2.86	0.43
1:K:255:ARG:CG	1:K:255:ARG:NH1	2.79	0.43
1:H:822:LEU:HD12	1:H:823:LEU:H	1.80	0.43
1:B:395:HIS:HA	1:B:396:PRO:HD3	1.48	0.43
1:P:210:ARG:HH11	1:P:395:HIS:CA	2.32	0.43
1:L:210:ARG:HH11	1:L:395:HIS:CA	2.32	0.43
1:P:34:ALA:HB3	1:P:36:TRP:CZ3	2.53	0.43
1:G:701:VAL:CG1	1:G:702:GLN:N	2.81	0.43
1:O:658:LEU:HD12	1:O:693:GLN:O	2.18	0.43
1:B:708:TRP:CZ3	1:B:709:SER:HB3	2.54	0.43
1:B:237:ARG:CG	1:B:237:ARG:NH1	2.82	0.43
1:G:599:ARG:HB2	1:G:600:GLN:H	1.41	0.43
1:N:778:THR:HB	1:N:887:GLN:CB	2.48	0.43
1:A:645:ARG:NH2	1:A:650:GLU:OE2	2.48	0.43
1:M:778:THR:HB	1:M:887:GLN:CB	2.48	0.43
1:L:131:GLU:HA	1:L:134:LEU:HB2	2.00	0.43
1:F:35:SER:O	1:F:50:GLN:HG3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:50:GLN:HB3	1:P:216:HIS:HB3	2.00	0.43
1:B:807:VAL:HG13	1:B:808:GLU:N	2.34	0.43
1:M:608:PHE:O	1:M:611:ARG:N	2.41	0.43
1:C:870:VAL:CG1	1:C:871:GLU:N	2.81	0.43
1:J:570:TRP:HD1	1:J:571:VAL:HG22	1.84	0.43
1:E:637:GLU:HA	1:E:679:LEU:HD23	2.01	0.43
1:P:679:LEU:HD23	1:P:679:LEU:HA	1.26	0.43
1:J:110:ASN:O	1:J:113:PHE:HB2	2.19	0.43
1:O:694:LEU:O	1:O:722:LEU:N	2.51	0.43
1:C:406:GLY:O	1:C:407:LEU:HD23	2.18	0.43
1:G:718:GLN:HG3	1:G:719:GLN:N	2.34	0.43
1:E:118:ASN:HA	1:E:119:PRO:HD2	1.60	0.43
1:L:479:ASP:HA	1:L:480:PRO:HD2	1.61	0.43
1:A:285:TYR:HB3	1:A:288:ARG:HG3	2.01	0.43
1:G:110:ASN:O	1:G:113:PHE:HB2	2.19	0.43
1:P:718:GLN:HG3	1:P:719:GLN:N	2.33	0.43
1:D:363:HIS:N	1:D:363:HIS:CD2	2.81	0.43
1:P:670:LEU:HA	1:P:670:LEU:HD23	1.67	0.43
1:J:308:LEU:HA	1:J:308:LEU:HD23	1.80	0.43
1:B:110:ASN:O	1:B:113:PHE:HB2	2.19	0.43
1:D:373:VAL:O	1:D:374:GLN:C	2.56	0.43
1:D:479:ASP:HA	1:D:480:PRO:HD2	1.61	0.43
1:L:436:MET:HE1	1:L:467:ASN:HD22	1.79	0.43
1:K:651:LEU:HD12	1:K:668:VAL:O	2.19	0.43
1:G:46:ARG:HB3	1:G:47:PRO:HD2	2.00	0.43
1:O:46:ARG:HB3	1:O:47:PRO:HD2	2.00	0.43
1:B:651:LEU:HD13	1:B:651:LEU:HA	1.51	0.43
1:N:92:MET:HE3	1:N:362:LEU:O	2.18	0.43
1:D:4:THR:CA	1:D:9:VAL:HG11	2.47	0.43
1:B:894:ARG:NH1	1:B:920:LEU:CA	2.81	0.43
1:P:1021:CME:HZ3	1:P:1022:GLN:O	2.19	0.43
1:M:895:VAL:O	1:M:919:ASP:HA	2.19	0.43
1:G:894:ARG:NH1	1:G:920:LEU:CA	2.81	0.43
1:P:822:LEU:C	1:P:822:LEU:HD12	2.37	0.43
1:P:682:LEU:HD23	1:P:682:LEU:HA	1.67	0.43
1:O:685:LEU:HB3	1:O:686:PRO:HD2	1.99	0.43
1:G:682:LEU:HA	1:G:682:LEU:HD23	1.67	0.43
1:A:822:LEU:HD12	1:A:823:LEU:H	1.80	0.43
1:A:763:GLY:HA3	1:A:822:LEU:HD22	2.01	0.43
1:M:682:LEU:HA	1:M:682:LEU:HD23	1.67	0.43
1:H:210:ARG:HH11	1:H:395:HIS:CA	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:210:ARG:HH11	1:E:395:HIS:CA	2.32	0.43
1:K:260:LEU:HD12	1:K:310:ARG:O	2.19	0.43
1:M:260:LEU:HD12	1:M:310:ARG:O	2.19	0.43
1:D:138:GLN:N	1:D:217:LYS:O	2.36	0.43
1:E:701:VAL:CG1	1:E:702:GLN:N	2.81	0.43
1:D:673:ALA:O	1:D:676:GLY:N	2.47	0.43
1:F:673:ALA:O	1:F:676:GLY:N	2.47	0.43
1:L:579:ASP:OD1	1:L:583:ASN:N	2.43	0.43
1:O:708:TRP:CZ3	1:O:709:SER:HB3	2.54	0.43
1:G:708:TRP:CZ3	1:G:709:SER:HB3	2.54	0.43
1:M:708:TRP:CZ3	1:M:709:SER:HB3	2.54	0.43
1:I:708:TRP:CZ3	1:I:709:SER:HB3	2.54	0.43
1:G:3:ILE:O	1:G:6:SER:HB3	2.18	0.43
1:D:237:ARG:NH1	1:D:237:ARG:CG	2.82	0.43
1:H:568:TRP:CD2	1:H:569:ASP:HB3	2.54	0.43
1:P:568:TRP:CD2	1:P:569:ASP:HB3	2.54	0.43
1:G:568:TRP:CD2	1:G:569:ASP:HB3	2.54	0.43
1:G:429:ASP:OD1	1:G:431:ARG:HD3	2.18	0.43
1:E:429:ASP:OD1	1:E:431:ARG:HD3	2.18	0.43
1:I:778:THR:HB	1:I:887:GLN:CB	2.48	0.43
1:D:35:SER:O	1:D:50:GLN:HG3	2.18	0.43
1:L:35:SER:O	1:L:50:GLN:HG3	2.18	0.43
1:P:1018:LEU:HD23	1:P:1018:LEU:HA	1.51	0.43
1:J:287:ASP:N	1:J:287:ASP:OD1	2.29	0.43
1:P:73:TRP:O	1:P:183:ARG:NH1	2.48	0.43
1:K:637:GLU:HA	1:K:679:LEU:HD23	2.01	0.43
1:K:93:HIS:HB3	1:K:95:TYR:HE1	1.84	0.43
1:E:694:LEU:O	1:E:722:LEU:N	2.51	0.43
1:N:637:GLU:HA	1:N:679:LEU:HD23	2.01	0.43
1:F:637:GLU:HA	1:F:679:LEU:HD23	2.01	0.43
1:A:637:GLU:HA	1:A:679:LEU:HD23	2.01	0.43
1:F:369:GLU:O	1:F:373:VAL:HG23	2.19	0.43
1:G:285:TYR:HB3	1:G:288:ARG:HG3	2.01	0.43
1:O:718:GLN:HG3	1:O:719:GLN:N	2.34	0.43
1:F:118:ASN:HA	1:F:119:PRO:HD2	1.60	0.43
1:I:718:GLN:HG3	1:I:719:GLN:N	2.34	0.43
1:N:375:ASP:O	1:N:379:MET:HG3	2.19	0.43
1:H:285:TYR:HB3	1:H:288:ARG:HG3	2.01	0.43
1:M:110:ASN:O	1:M:113:PHE:HB2	2.19	0.43
1:G:111:PRO:HA	1:G:112:PRO:HA	1.57	0.43
1:F:406:GLY:O	1:F:407:LEU:HD23	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:718:GLN:HG3	1:D:719:GLN:N	2.34	0.43
1:K:264:GLU:OE2	1:K:264:GLU:HA	2.17	0.43
1:M:694:LEU:HD12	1:M:694:LEU:HA	1.69	0.43
1:M:694:LEU:O	1:M:722:LEU:N	2.51	0.43
1:M:507:ASP:C	1:M:519:SER:HB2	2.39	0.43
1:K:375:ASP:O	1:K:379:MET:HG3	2.19	0.43
1:H:972:HIS:HB3	5:H:2155:HOH:O	2.18	0.43
1:O:43:ARG:NH1	1:O:44:THR:HG23	2.34	0.43
1:E:651:LEU:HD12	1:E:668:VAL:O	2.19	0.43
1:B:651:LEU:HD12	1:B:668:VAL:O	2.19	0.43
1:G:781:ARG:NH1	1:G:781:ARG:CG	2.79	0.43
1:O:781:ARG:NH1	1:O:781:ARG:CG	2.79	0.43
1:I:251:ARG:CB	1:I:253:TYR:CE2	2.98	0.43
1:J:920:LEU:CB	1:J:921:PRO:CD	2.97	0.43
1:G:895:VAL:O	1:G:919:ASP:HA	2.19	0.43
1:C:254:LEU:HD23	1:C:254:LEU:HA	1.62	0.43
1:L:63:PHE:CB	1:L:64:PRO:HD2	2.32	0.43
1:O:210:ARG:HH11	1:O:395:HIS:CA	2.32	0.43
1:G:210:ARG:HH11	1:G:395:HIS:CA	2.32	0.43
1:I:260:LEU:HD12	1:I:310:ARG:O	2.19	0.43
1:B:260:LEU:HD12	1:B:310:ARG:O	2.19	0.43
1:E:260:LEU:HD12	1:E:310:ARG:O	2.19	0.43
1:B:702:GLN:HA	1:B:703:PRO:HD2	1.84	0.43
1:F:657:ALA:HA	1:F:661:LYS:O	2.19	0.43
1:N:708:TRP:CZ3	1:N:709:SER:HB3	2.54	0.43
1:L:237:ARG:CG	1:L:237:ARG:NH1	2.82	0.43
1:A:237:ARG:CG	1:A:237:ARG:NH1	2.82	0.43
1:P:237:ARG:CG	1:P:237:ARG:NH1	2.82	0.43
1:A:347:LYS:CB	1:A:348:PRO:HD2	2.43	0.43
1:A:900:LEU:HA	1:A:900:LEU:HD23	1.75	0.43
1:A:568:TRP:CD2	1:A:569:ASP:HB3	2.54	0.43
1:O:421:VAL:O	1:O:425:ARG:NH1	2.46	0.43
1:J:568:TRP:CD2	1:J:569:ASP:HB3	2.54	0.43
1:K:568:TRP:CD2	1:K:569:ASP:HB3	2.54	0.43
1:M:429:ASP:OD1	1:M:431:ARG:HD3	2.18	0.43
1:C:131:GLU:HA	1:C:134:LEU:HB2	2.00	0.43
1:N:778:THR:CG2	1:N:887:GLN:H	2.32	0.43
1:H:50:GLN:HB3	1:H:216:HIS:HB3	2.00	0.43
1:G:807:VAL:HG13	1:G:808:GLU:N	2.34	0.43
1:J:287:ASP:CG	1:K:425:ARG:HH22	2.22	0.43
1:F:70:PRO:O	1:F:73:TRP:N	2.45	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:612:THR:HA	1:K:613:PRO:HD3	1.68	0.43
1:P:445:GLN:HB3	1:P:445:GLN:HE21	1.54	0.43
1:I:93:HIS:HB3	1:I:95:TYR:HE1	1.84	0.43
1:G:93:HIS:HB3	1:G:95:TYR:HE1	1.84	0.43
1:H:694:LEU:O	1:H:722:LEU:N	2.51	0.43
1:C:972:HIS:HB3	5:C:2155:HOH:O	2.18	0.43
1:D:694:LEU:HD12	1:D:694:LEU:HA	1.69	0.43
1:J:972:HIS:HB3	5:J:2155:HOH:O	2.18	0.43
1:D:391:HIS:ND1	1:D:412:GLU:OE1	2.44	0.43
1:F:149:ALA:O	1:F:150:PHE:HB3	2.18	0.43
1:B:285:TYR:HB3	1:B:288:ARG:HG3	2.01	0.43
1:O:285:TYR:HB3	1:O:288:ARG:HG3	2.01	0.43
1:F:173:LEU:HA	1:F:173:LEU:HD23	1.69	0.43
1:M:264:GLU:OE2	1:M:264:GLU:HA	2.17	0.43
1:M:726:LEU:HA	1:M:726:LEU:HD23	1.66	0.43
1:O:264:GLU:OE2	1:O:264:GLU:HA	2.17	0.43
1:I:369:GLU:O	1:I:373:VAL:HG23	2.19	0.43
1:B:476:LYS:HA	1:B:476:LYS:HD2	1.81	0.43
1:P:285:TYR:HB3	1:P:288:ARG:HG3	2.01	0.43
1:I:375:ASP:O	1:I:379:MET:HG3	2.19	0.43
1:D:375:ASP:O	1:D:379:MET:HG3	2.19	0.43
1:N:406:GLY:O	1:N:407:LEU:HD23	2.18	0.43
1:L:531:ARG:O	1:L:561:ARG:NH1	2.46	0.43
1:G:43:ARG:NH1	1:G:44:THR:HG23	2.34	0.43
1:A:46:ARG:HB3	1:A:47:PRO:HD2	2.00	0.43
1:B:323:ILE:CD1	1:B:323:ILE:N	2.82	0.43
1:A:579:ASP:OD1	1:A:583:ASN:N	2.43	0.43
1:L:1021:CME:HZ3	1:L:1022:GLN:O	2.19	0.43
1:N:1021:CME:HZ3	1:N:1022:GLN:O	2.19	0.43
1:N:894:ARG:NH1	1:N:920:LEU:CA	2.81	0.43
1:C:65:ALA:HB1	1:C:66:PRO:CD	2.39	0.43
1:F:655:MET:HE2	1:F:655:MET:C	2.40	0.43
1:G:685:LEU:HB3	1:G:686:PRO:HD2	2.00	0.43
1:H:533:LEU:HD12	1:H:534:ILE:N	2.33	0.43
1:N:210:ARG:HH11	1:N:395:HIS:CA	2.32	0.43
1:D:395:HIS:HA	1:D:396:PRO:HD3	1.48	0.43
1:M:395:HIS:HA	1:M:396:PRO:HD3	1.48	0.43
1:O:138:GLN:N	1:O:217:LYS:O	2.36	0.43
1:C:260:LEU:HD12	1:C:310:ARG:O	2.19	0.43
1:N:260:LEU:HD12	1:N:310:ARG:O	2.19	0.43
1:A:260:LEU:HD12	1:A:310:ARG:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:701:VAL:CG1	1:I:702:GLN:N	2.81	0.43
1:D:78:LEU:CB	1:D:79:PRO:HD2	2.44	0.43
1:N:657:ALA:HA	1:N:661:LYS:O	2.19	0.43
1:B:657:ALA:HA	1:B:661:LYS:O	2.19	0.43
1:G:657:ALA:HA	1:G:661:LYS:O	2.19	0.43
1:F:708:TRP:CZ3	1:F:709:SER:HB3	2.54	0.43
1:A:708:TRP:CZ3	1:A:709:SER:HB3	2.54	0.43
1:O:344:LEU:N	1:O:347:LYS:O	2.36	0.43
1:G:597:ASN:ND2	1:G:599:ARG:H	2.17	0.43
1:I:568:TRP:CD2	1:I:569:ASP:HB3	2.54	0.43
1:O:597:ASN:ND2	1:O:599:ARG:H	2.17	0.43
1:D:184:LEU:HA	1:D:184:LEU:HD23	1.83	0.43
1:G:421:VAL:O	1:G:425:ARG:NH1	2.46	0.43
1:D:778:THR:HB	1:D:887:GLN:CB	2.49	0.43
1:J:473:ARG:HD2	1:K:469:ASP:HB3	1.99	0.43
1:M:778:THR:CG2	1:M:887:GLN:H	2.32	0.43
1:M:807:VAL:HG13	1:M:808:GLU:N	2.34	0.43
1:O:870:VAL:CG1	1:O:871:GLU:N	2.81	0.43
1:L:571:VAL:HG13	1:L:607:VAL:HG23	1.99	0.43
1:E:679:LEU:HA	1:E:679:LEU:HD23	1.26	0.43
1:I:788:PRO:O	1:I:933:SER:HB2	2.18	0.43
1:M:647:SER:OG	1:M:672:VAL:N	2.35	0.43
1:L:110:ASN:O	1:L:113:PHE:HB2	2.19	0.43
1:H:373:VAL:O	1:H:374:GLN:C	2.57	0.43
1:E:507:ASP:C	1:E:519:SER:HB2	2.39	0.43
1:H:546:LEU:HA	1:H:546:LEU:HD12	1.84	0.43
1:M:788:PRO:O	1:M:933:SER:HB2	2.18	0.43
1:O:110:ASN:O	1:O:113:PHE:HB2	2.19	0.43
1:C:110:ASN:O	1:C:113:PHE:HB2	2.19	0.43
1:H:788:PRO:O	1:H:933:SER:HB2	2.18	0.43
1:C:369:GLU:O	1:C:373:VAL:HG23	2.19	0.43
1:I:43:ARG:NH1	1:I:44:THR:HG23	2.34	0.42
1:M:651:LEU:HD12	1:M:668:VAL:O	2.19	0.42
1:D:651:LEU:HD12	1:D:668:VAL:O	2.19	0.42
1:A:651:LEU:HD12	1:A:668:VAL:O	2.19	0.42
1:P:251:ARG:CB	1:P:253:TYR:CE2	2.98	0.42
1:I:1021:CME:HZ3	1:I:1022:GLN:O	2.19	0.42
1:K:895:VAL:O	1:K:919:ASP:HA	2.19	0.42
1:O:230:ARG:HH11	1:O:230:ARG:CG	2.24	0.42
1:B:230:ARG:NH2	1:B:241:GLU:OE2	2.51	0.42
1:L:254:LEU:HD23	1:L:254:LEU:HA	1.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:685:LEU:HA	1:L:686:PRO:HD3	1.70	0.42
1:P:533:LEU:HD12	1:P:534:ILE:N	2.33	0.42
1:J:34:ALA:HB3	1:J:36:TRP:CE3	2.54	0.42
1:F:260:LEU:HD12	1:F:310:ARG:O	2.19	0.42
1:D:260:LEU:HD12	1:D:310:ARG:O	2.19	0.42
1:D:34:ALA:HB3	1:D:36:TRP:CE3	2.55	0.42
1:H:657:ALA:HA	1:H:661:LYS:O	2.19	0.42
1:I:661:LYS:HA	1:I:662:PRO:HD3	1.63	0.42
1:M:49:GLN:CD	1:M:49:GLN:H	2.20	0.42
1:C:657:ALA:HA	1:C:661:LYS:O	2.19	0.42
1:E:708:TRP:CZ3	1:E:709:SER:HB3	2.54	0.42
1:L:900:LEU:HD23	1:L:900:LEU:HA	1.75	0.42
1:I:237:ARG:CG	1:I:237:ARG:NH1	2.82	0.42
1:J:272:ALA:HB1	1:J:273:PRO:CD	2.47	0.42
1:I:429:ASP:OD1	1:I:431:ARG:HD3	2.18	0.42
1:E:778:THR:CG2	1:E:887:GLN:H	2.32	0.42
1:F:778:THR:CG2	1:F:887:GLN:H	2.32	0.42
1:J:85:VAL:HG12	1:J:86:VAL:N	2.34	0.42
1:A:50:GLN:HB3	1:A:216:HIS:HB3	2.00	0.42
1:I:807:VAL:HG13	1:I:808:GLU:N	2.34	0.42
1:A:870:VAL:CG1	1:A:871:GLU:N	2.81	0.42
1:B:870:VAL:CG1	1:B:871:GLU:N	2.81	0.42
1:I:164:ASP:OD2	1:I:167:LEU:HD12	2.18	0.42
1:H:445:GLN:HE21	1:H:445:GLN:HB3	1.54	0.42
1:L:164:ASP:OD2	1:L:167:LEU:HD12	2.18	0.42
1:F:93:HIS:HB3	1:F:95:TYR:HE1	1.84	0.42
1:C:93:HIS:HB3	1:C:95:TYR:HE1	1.84	0.42
1:O:93:HIS:HB3	1:O:95:TYR:HE1	1.84	0.42
1:A:445:GLN:HB3	1:A:445:GLN:HE21	1.54	0.42
1:B:679:LEU:HA	1:B:679:LEU:HD23	1.26	0.42
1:E:694:LEU:HD12	1:E:694:LEU:HA	1.69	0.42
1:F:373:VAL:O	1:F:374:GLN:C	2.57	0.42
1:F:375:ASP:O	1:F:379:MET:HG3	2.19	0.42
1:N:369:GLU:O	1:N:373:VAL:HG23	2.19	0.42
1:D:149:ALA:O	1:D:150:PHE:HB3	2.18	0.42
1:N:110:ASN:O	1:N:113:PHE:HB2	2.19	0.42
1:I:353:GLY:C	1:I:566:PHE:HA	2.40	0.42
1:K:972:HIS:HB3	5:K:2155:HOH:O	2.18	0.42
1:J:369:GLU:O	1:J:373:VAL:HG23	2.19	0.42
1:A:110:ASN:O	1:A:113:PHE:HB2	2.19	0.42
1:C:264:GLU:OE2	1:C:264:GLU:HA	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:406:GLY:O	1:A:407:LEU:HD23	2.18	0.42
1:P:369:GLU:O	1:P:373:VAL:HG23	2.19	0.42
1:L:353:GLY:C	1:L:566:PHE:HA	2.40	0.42
1:F:353:GLY:C	1:F:566:PHE:HA	2.40	0.42
1:I:43:ARG:NH1	1:I:44:THR:CG2	2.81	0.42
1:P:43:ARG:NH1	1:P:44:THR:HG23	2.34	0.42
1:D:43:ARG:NH1	1:D:44:THR:CG2	2.81	0.42
1:O:746:ASP:HA	1:O:760:ARG:CG	2.39	0.42
1:B:46:ARG:HB3	1:B:47:PRO:HD2	2.00	0.42
1:L:651:LEU:HD12	1:L:668:VAL:O	2.19	0.42
1:A:576:ILE:CG2	1:A:577:LYS:N	2.78	0.42
1:G:1021:CME:HZ3	1:G:1022:GLN:O	2.19	0.42
1:H:1021:CME:HZ3	1:H:1022:GLN:O	2.19	0.42
1:N:240:LEU:HD12	1:N:240:LEU:C	2.36	0.42
1:H:822:LEU:HD12	1:H:822:LEU:C	2.37	0.42
1:J:114:VAL:HG21	1:J:192:SER:N	2.35	0.42
1:L:114:VAL:HG21	1:L:192:SER:N	2.35	0.42
1:F:685:LEU:HB3	1:F:686:PRO:HD2	1.99	0.42
1:N:685:LEU:HB3	1:N:686:PRO:HD2	1.99	0.42
1:P:395:HIS:HA	1:P:396:PRO:HD3	1.48	0.42
1:P:260:LEU:HD12	1:P:310:ARG:O	2.19	0.42
1:B:34:ALA:HB3	1:B:36:TRP:CE3	2.54	0.42
1:C:34:ALA:HB3	1:C:36:TRP:CE3	2.54	0.42
1:L:260:LEU:HD12	1:L:310:ARG:O	2.19	0.42
1:L:34:ALA:HB3	1:L:36:TRP:CE3	2.54	0.42
1:F:37:ARG:CG	1:F:37:ARG:NH1	2.79	0.42
1:D:49:GLN:CD	1:D:49:GLN:H	2.20	0.42
1:O:657:ALA:HA	1:O:661:LYS:O	2.19	0.42
1:H:708:TRP:CZ3	1:H:709:SER:HB3	2.54	0.42
1:E:237:ARG:NH1	1:E:237:ARG:CG	2.81	0.42
1:A:800:ARG:CB	1:A:800:ARG:CZ	2.98	0.42
1:O:800:ARG:CZ	1:O:800:ARG:CB	2.98	0.42
1:B:597:ASN:ND2	1:B:599:ARG:H	2.17	0.42
1:H:730:LEU:HA	1:H:731:PRO:HD3	1.74	0.42
1:K:645:ARG:NH2	1:K:650:GLU:OE2	2.48	0.42
1:J:778:THR:CG2	1:J:887:GLN:H	2.32	0.42
1:O:778:THR:HB	1:O:887:GLN:CB	2.49	0.42
1:L:429:ASP:OD1	1:L:431:ARG:HD3	2.18	0.42
1:I:85:VAL:HG12	1:I:86:VAL:N	2.34	0.42
1:A:85:VAL:HG12	1:A:86:VAL:N	2.35	0.42
1:H:85:VAL:HG12	1:H:86:VAL:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1018:LEU:HD22	1:G:1019:VAL:N	2.35	0.42
1:E:141:ILE:HD13	1:E:143:PHE:CE1	2.55	0.42
1:K:73:TRP:O	1:K:183:ARG:NH1	2.48	0.42
1:M:141:ILE:HD13	1:M:143:PHE:CE1	2.55	0.42
1:P:927:THR:HA	1:P:928:PRO:HD3	1.62	0.42
1:F:445:GLN:HB3	1:F:445:GLN:HE21	1.55	0.42
1:L:93:HIS:HB3	1:L:95:TYR:HE1	1.84	0.42
1:D:93:HIS:HB3	1:D:95:TYR:HE1	1.84	0.42
1:J:373:VAL:O	1:J:374:GLN:C	2.57	0.42
1:M:353:GLY:C	1:M:566:PHE:HA	2.40	0.42
1:O:1004:SER:HB2	1:O:1006:GLU:OE2	2.19	0.42
1:G:369:GLU:O	1:G:373:VAL:HG23	2.19	0.42
1:P:972:HIS:HB3	5:P:2160:HOH:O	2.18	0.42
1:A:369:GLU:O	1:A:373:VAL:HG23	2.19	0.42
1:G:1004:SER:HB2	1:G:1006:GLU:OE2	2.20	0.42
1:C:147:ASN:HB2	1:C:165:SER:HB3	2.02	0.42
1:B:375:ASP:O	1:B:379:MET:HG3	2.19	0.42
1:B:1004:SER:HB2	1:B:1006:GLU:OE2	2.20	0.42
1:D:353:GLY:C	1:D:566:PHE:HA	2.40	0.42
1:E:264:GLU:HA	1:E:264:GLU:OE2	2.17	0.42
1:I:264:GLU:HA	1:I:264:GLU:OE2	2.17	0.42
1:I:285:TYR:HB3	1:I:288:ARG:HG3	2.01	0.42
1:L:718:GLN:HG3	1:L:719:GLN:N	2.34	0.42
1:J:43:ARG:NH1	1:J:44:THR:HG23	2.34	0.42
1:H:43:ARG:NH1	1:H:44:THR:HG23	2.34	0.42
1:M:43:ARG:NH1	1:M:44:THR:HG23	2.34	0.42
1:B:43:ARG:NH1	1:B:44:THR:HG23	2.34	0.42
1:D:257:THR:OG1	1:D:316:HIS:HE1	2.03	0.42
1:E:46:ARG:HB3	1:E:47:PRO:HD2	2.00	0.42
1:B:579:ASP:OD1	1:B:583:ASN:N	2.43	0.42
1:O:7:LEU:O	1:O:8:ALA:C	2.55	0.42
1:G:7:LEU:O	1:G:8:ALA:C	2.55	0.42
1:K:7:LEU:O	1:K:8:ALA:C	2.55	0.42
1:J:251:ARG:CB	1:J:253:TYR:CE2	2.98	0.42
1:J:895:VAL:O	1:J:919:ASP:HA	2.19	0.42
1:J:1021:CME:HB3	1:J:1021:CME:HE2	1.41	0.42
1:F:895:VAL:O	1:F:919:ASP:HA	2.19	0.42
1:E:763:GLY:HA3	1:E:822:LEU:HD22	2.01	0.42
1:I:210:ARG:HH11	1:I:395:HIS:CA	2.32	0.42
1:D:34:ALA:HB3	1:D:36:TRP:CZ3	2.53	0.42
1:E:657:ALA:HA	1:E:661:LYS:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:657:ALA:HA	1:M:661:LYS:O	2.19	0.42
1:J:708:TRP:CZ3	1:J:709:SER:HB3	2.54	0.42
1:H:347:LYS:HA	1:H:348:PRO:HD3	1.77	0.42
1:F:800:ARG:CZ	1:F:800:ARG:CB	2.98	0.42
1:D:708:TRP:CZ3	1:D:709:SER:HB3	2.54	0.42
1:G:344:LEU:N	1:G:347:LYS:O	2.36	0.42
1:M:597:ASN:ND2	1:M:599:ARG:H	2.17	0.42
1:J:272:ALA:HA	1:J:273:PRO:HD3	1.76	0.42
1:A:778:THR:HB	1:A:887:GLN:CB	2.48	0.42
1:C:778:THR:CG2	1:C:887:GLN:H	2.32	0.42
1:K:836:ILE:HD13	1:K:836:ILE:N	2.34	0.42
1:P:778:THR:CG2	1:P:887:GLN:H	2.32	0.42
1:J:50:GLN:HB3	1:J:216:HIS:HB3	2.00	0.42
1:E:1018:LEU:HD22	1:E:1019:VAL:N	2.35	0.42
1:F:1018:LEU:HD22	1:F:1019:VAL:N	2.35	0.42
1:P:807:VAL:HG13	1:P:808:GLU:N	2.34	0.42
1:C:807:VAL:HG13	1:C:808:GLU:N	2.34	0.42
1:M:1018:LEU:HD22	1:M:1019:VAL:N	2.35	0.42
1:N:1018:LEU:HD22	1:N:1019:VAL:N	2.35	0.42
1:D:807:VAL:HG13	1:D:808:GLU:N	2.34	0.42
1:K:141:ILE:HD13	1:K:143:PHE:CE1	2.55	0.42
1:H:612:THR:HA	1:H:613:PRO:HD3	1.68	0.42
1:A:570:TRP:HD1	1:A:571:VAL:HG22	1.84	0.42
1:I:637:GLU:HA	1:I:679:LEU:HD23	2.01	0.42
1:D:369:GLU:O	1:D:373:VAL:HG23	2.19	0.42
1:H:369:GLU:O	1:H:373:VAL:HG23	2.19	0.42
1:B:147:ASN:HB2	1:B:165:SER:HB3	2.02	0.42
1:I:406:GLY:O	1:I:407:LEU:HD23	2.18	0.42
1:G:353:GLY:C	1:G:566:PHE:HA	2.40	0.42
1:A:718:GLN:HG3	1:A:719:GLN:N	2.34	0.42
1:A:531:ARG:O	1:A:561:ARG:NH1	2.46	0.42
1:O:972:HIS:HB3	5:O:2155:HOH:O	2.18	0.42
1:E:110:ASN:O	1:E:113:PHE:HB2	2.19	0.42
1:H:353:GLY:C	1:H:566:PHE:HA	2.40	0.42
1:B:718:GLN:HG3	1:B:719:GLN:N	2.34	0.42
1:B:353:GLY:C	1:B:566:PHE:HA	2.40	0.42
1:C:718:GLN:HG3	1:C:719:GLN:N	2.33	0.42
1:C:531:ARG:O	1:C:561:ARG:NH1	2.46	0.42
1:N:353:GLY:C	1:N:566:PHE:HA	2.40	0.42
1:P:353:GLY:C	1:P:566:PHE:HA	2.40	0.42
1:B:757:GLN:O	1:B:757:GLN:HG2	2.12	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:875:ASP:N	1:A:875:ASP:OD2	2.47	0.42
1:J:378:LEU:HD23	1:J:378:LEU:HA	1.53	0.42
1:O:367:MET:HB3	1:O:367:MET:HE2	1.88	0.42
1:E:353:GLY:C	1:E:566:PHE:HA	2.40	0.42
1:N:507:ASP:C	1:N:519:SER:HB2	2.39	0.42
1:E:375:ASP:O	1:E:379:MET:HG3	2.19	0.42
1:F:43:ARG:NH1	1:F:44:THR:HG23	2.34	0.42
1:K:43:ARG:NH1	1:K:44:THR:HG23	2.34	0.42
1:C:46:ARG:HB3	1:C:47:PRO:HD2	2.00	0.42
1:M:46:ARG:HB3	1:M:47:PRO:HD2	2.00	0.42
1:I:651:LEU:HD12	1:I:668:VAL:O	2.19	0.42
1:L:46:ARG:HB3	1:L:47:PRO:HD2	2.00	0.42
1:L:46:ARG:CG	1:L:46:ARG:NH1	2.78	0.42
1:E:579:ASP:OD1	1:E:583:ASN:N	2.43	0.42
1:B:1021:CME:HZ3	1:B:1022:GLN:O	2.19	0.42
1:K:1021:CME:HZ3	1:K:1022:GLN:O	2.19	0.42
1:O:895:VAL:O	1:O:919:ASP:HA	2.19	0.42
1:F:230:ARG:HH11	1:F:230:ARG:CG	2.24	0.42
1:I:230:ARG:NH2	1:I:241:GLU:OE2	2.51	0.42
1:P:823:LEU:HA	1:P:823:LEU:HD23	1.73	0.42
1:H:763:GLY:HA3	1:H:822:LEU:HD22	2.01	0.42
1:C:763:GLY:HA3	1:C:822:LEU:HD22	2.01	0.42
1:D:114:VAL:HG21	1:D:192:SER:N	2.35	0.42
1:M:210:ARG:HH11	1:M:395:HIS:CA	2.32	0.42
1:G:189:LEU:CD2	1:G:189:LEU:N	2.75	0.42
1:G:138:GLN:N	1:G:217:LYS:O	2.36	0.42
1:E:34:ALA:HB3	1:E:36:TRP:CE3	2.54	0.42
1:K:78:LEU:HB3	1:K:79:PRO:CD	2.45	0.42
1:P:657:ALA:HA	1:P:661:LYS:O	2.19	0.42
1:J:657:ALA:HA	1:J:661:LYS:O	2.19	0.42
1:L:708:TRP:CZ3	1:L:709:SER:HB3	2.54	0.42
1:C:800:ARG:CB	1:C:800:ARG:CZ	2.98	0.42
1:D:800:ARG:CB	1:D:800:ARG:CZ	2.98	0.42
1:M:237:ARG:NH1	1:M:237:ARG:CG	2.82	0.42
1:F:568:TRP:CD2	1:F:569:ASP:HB3	2.54	0.42
1:B:568:TRP:CD2	1:B:569:ASP:HB3	2.54	0.42
1:D:347:LYS:HA	1:D:348:PRO:HD3	1.77	0.42
1:L:568:TRP:CD2	1:L:569:ASP:HB3	2.54	0.42
1:L:184:LEU:HA	1:L:184:LEU:HD23	1.83	0.42
1:D:502:MET:HA	1:D:537:GLU:O	2.20	0.42
1:P:429:ASP:OD1	1:P:431:ARG:HD3	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:85:VAL:HG12	1:G:86:VAL:N	2.34	0.42
1:H:272:ALA:HA	1:H:273:PRO:HD3	1.76	0.42
1:D:50:GLN:HB3	1:D:216:HIS:HB3	2.00	0.42
1:P:35:SER:O	1:P:50:GLN:HG3	2.18	0.42
1:I:35:SER:O	1:I:50:GLN:HG3	2.18	0.42
1:C:35:SER:O	1:C:50:GLN:HG3	2.18	0.42
1:O:807:VAL:HG13	1:O:808:GLU:N	2.34	0.42
1:J:141:ILE:HD13	1:J:143:PHE:CE1	2.55	0.42
1:C:570:TRP:HD1	1:C:571:VAL:HG22	1.84	0.42
1:J:571:VAL:HG13	1:J:607:VAL:HG23	1.99	0.42
1:M:679:LEU:HD23	1:M:679:LEU:HA	1.26	0.42
1:A:147:ASN:HB2	1:A:165:SER:HB3	2.02	0.42
1:L:285:TYR:HB3	1:L:288:ARG:HG3	2.01	0.42
1:L:1004:SER:HB2	1:L:1006:GLU:OE2	2.20	0.42
1:K:110:ASN:O	1:K:113:PHE:HB2	2.19	0.42
1:F:1004:SER:HB2	1:F:1006:GLU:OE2	2.20	0.42
1:N:718:GLN:HG3	1:N:719:GLN:N	2.34	0.42
1:K:149:ALA:O	1:K:150:PHE:HB3	2.18	0.42
1:N:1004:SER:HB2	1:N:1006:GLU:OE2	2.20	0.42
1:O:375:ASP:O	1:O:379:MET:HG3	2.19	0.42
1:O:476:LYS:HD2	1:O:476:LYS:HA	1.81	0.42
1:H:202:MET:HB3	1:H:202:MET:HE3	1.84	0.42
1:D:367:MET:HB3	1:D:367:MET:HE2	1.86	0.42
1:B:173:LEU:HA	1:B:173:LEU:HD23	1.69	0.42
1:L:391:HIS:ND1	1:L:412:GLU:OE1	2.44	0.42
1:J:1004:SER:HB2	1:J:1006:GLU:OE2	2.19	0.42
1:P:110:ASN:O	1:P:113:PHE:HB2	2.19	0.42
1:E:43:ARG:NH1	1:E:44:THR:HG23	2.34	0.42
1:D:43:ARG:NH1	1:D:44:THR:HG23	2.34	0.42
1:E:18:ASN:OD1	1:E:19:PRO:HD2	2.20	0.42
1:F:18:ASN:OD1	1:F:19:PRO:HD2	2.20	0.42
1:O:257:THR:OG1	1:O:316:HIS:HE1	2.03	0.42
1:D:18:ASN:OD1	1:D:19:PRO:HD2	2.20	0.42
1:P:57:GLU:HG2	1:P:83:THR:HG21	1.93	0.42
1:D:46:ARG:HB3	1:D:47:PRO:HD2	2.00	0.42
1:C:651:LEU:HD12	1:C:668:VAL:O	2.19	0.42
1:A:257:THR:OG1	1:A:316:HIS:HE1	2.03	0.42
1:E:257:THR:OG1	1:E:316:HIS:HE1	2.03	0.42
1:J:257:THR:OG1	1:J:316:HIS:HE1	2.03	0.42
1:N:781:ARG:CG	1:N:781:ARG:NH1	2.79	0.42
1:H:895:VAL:O	1:H:919:ASP:HA	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:781:ARG:CG	1:F:781:ARG:NH1	2.79	0.42
1:A:63:PHE:N	1:A:63:PHE:CD1	2.86	0.42
1:F:682:LEU:HA	1:F:682:LEU:HD23	1.67	0.42
1:C:210:ARG:HH11	1:C:395:HIS:CA	2.32	0.42
1:C:655:MET:HE2	1:C:655:MET:C	2.40	0.42
1:F:138:GLN:N	1:F:217:LYS:O	2.36	0.42
1:N:701:VAL:CG1	1:N:702:GLN:N	2.81	0.42
1:L:701:VAL:CG1	1:L:702:GLN:N	2.81	0.42
1:A:657:ALA:HA	1:A:661:LYS:O	2.19	0.42
1:P:377:LEU:HD23	1:P:377:LEU:HA	1.91	0.42
1:K:708:TRP:CZ3	1:K:709:SER:HB3	2.54	0.42
1:I:347:LYS:HA	1:I:348:PRO:HD3	1.77	0.42
1:K:800:ARG:CZ	1:K:800:ARG:CB	2.98	0.42
1:G:347:LYS:HA	1:G:348:PRO:HD3	1.77	0.42
1:E:597:ASN:ND2	1:E:599:ARG:H	2.17	0.42
1:L:597:ASN:ND2	1:L:599:ARG:H	2.17	0.42
1:E:502:MET:HA	1:E:537:GLU:O	2.20	0.42
1:C:502:MET:HA	1:C:537:GLU:O	2.20	0.42
1:A:502:MET:HA	1:A:537:GLU:O	2.20	0.42
1:M:469:ASP:HB3	1:P:473:ARG:HD2	2.02	0.42
1:K:778:THR:CG2	1:K:887:GLN:H	2.32	0.42
1:F:730:LEU:HA	1:F:731:PRO:HD3	1.74	0.42
1:H:778:THR:CG2	1:H:887:GLN:H	2.32	0.42
1:L:730:LEU:HA	1:L:731:PRO:HD3	1.74	0.42
1:O:131:GLU:HA	1:O:134:LEU:HB2	1.99	0.42
1:G:131:GLU:HA	1:G:134:LEU:HB2	2.00	0.42
1:D:85:VAL:HG12	1:D:86:VAL:N	2.34	0.42
1:C:85:VAL:HG12	1:C:86:VAL:N	2.35	0.42
1:J:35:SER:O	1:J:50:GLN:HG3	2.18	0.42
1:E:421:VAL:O	1:E:425:ARG:NH1	2.46	0.42
1:P:1018:LEU:HD22	1:P:1019:VAL:N	2.34	0.42
1:A:1018:LEU:HD22	1:A:1019:VAL:N	2.35	0.42
1:L:1018:LEU:HD22	1:L:1019:VAL:N	2.35	0.42
1:J:1018:LEU:HD22	1:J:1019:VAL:N	2.35	0.42
1:H:807:VAL:HG13	1:H:808:GLU:N	2.34	0.42
1:I:69:VAL:HA	1:I:70:PRO:HD2	1.77	0.42
1:I:73:TRP:O	1:I:183:ARG:NH1	2.48	0.42
1:L:612:THR:HA	1:L:613:PRO:HD3	1.68	0.42
1:B:141:ILE:HD13	1:B:143:PHE:CE1	2.55	0.42
1:A:141:ILE:HD13	1:A:143:PHE:CE1	2.55	0.42
1:D:570:TRP:HD1	1:D:571:VAL:HG22	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:559:TYR:HA	1:B:560:PRO:HD2	1.74	0.42
1:C:637:GLU:HA	1:C:679:LEU:HD23	2.01	0.42
1:E:93:HIS:HB3	1:E:95:TYR:HE1	1.84	0.42
1:C:368:ASP:O	1:C:369:GLU:C	2.58	0.42
1:L:375:ASP:O	1:L:379:MET:HG3	2.19	0.42
1:P:149:ALA:O	1:P:150:PHE:HB3	2.18	0.42
1:G:375:ASP:O	1:G:379:MET:HG3	2.19	0.42
1:O:353:GLY:C	1:O:566:PHE:HA	2.40	0.42
1:C:1004:SER:HB2	1:C:1006:GLU:OE2	2.20	0.42
1:I:722:LEU:HA	1:I:722:LEU:HD23	1.75	0.42
1:G:200:GLN:N	1:G:200:GLN:OE1	2.44	0.42
1:L:694:LEU:HA	1:L:694:LEU:HD12	1.69	0.42
1:P:1004:SER:HB2	1:P:1006:GLU:OE2	2.20	0.42
1:K:1004:SER:HB2	1:K:1006:GLU:OE2	2.20	0.42
1:L:43:ARG:HH11	1:L:43:ARG:CG	2.10	0.42
1:N:43:ARG:NH1	1:N:44:THR:HG23	2.34	0.42
1:J:746:ASP:HA	1:J:760:ARG:CG	2.39	0.42
1:L:18:ASN:OD1	1:L:19:PRO:HD2	2.20	0.42
1:M:18:ASN:OD1	1:M:19:PRO:HD2	2.20	0.42
1:H:18:ASN:OD1	1:H:19:PRO:HD2	2.20	0.42
1:A:18:ASN:OD1	1:A:19:PRO:HD2	2.20	0.42
1:P:651:LEU:HD12	1:P:668:VAL:O	2.19	0.42
1:F:583:ASN:HA	1:F:584:PRO:HD3	1.79	0.42
1:D:895:VAL:O	1:D:919:ASP:HA	2.19	0.42
1:E:1021:CME:HZ3	1:E:1022:GLN:O	2.19	0.42
1:E:895:VAL:O	1:E:919:ASP:HA	2.19	0.42
1:P:230:ARG:NH2	1:P:241:GLU:OE2	2.50	0.42
1:C:822:LEU:HD13	1:C:822:LEU:HA	1.88	0.42
1:M:823:LEU:HA	1:M:823:LEU:HD23	1.73	0.42
1:F:763:GLY:HA3	1:F:822:LEU:HD22	2.01	0.42
1:I:34:ALA:HB3	1:I:36:TRP:CE3	2.54	0.42
1:K:210:ARG:HH11	1:K:395:HIS:CA	2.32	0.42
1:A:260:LEU:C	1:A:267:VAL:HG23	2.40	0.42
1:A:34:ALA:HB3	1:A:36:TRP:CE3	2.54	0.42
1:B:701:VAL:HG12	1:B:702:GLN:H	1.83	0.42
1:D:657:ALA:HA	1:D:661:LYS:O	2.19	0.42
1:E:800:ARG:CZ	1:E:800:ARG:CB	2.98	0.42
1:N:568:TRP:CD2	1:N:569:ASP:HB3	2.54	0.42
1:O:568:TRP:CD2	1:O:569:ASP:HB3	2.54	0.42
1:M:568:TRP:CD2	1:M:569:ASP:HB3	2.54	0.42
1:J:131:GLU:HA	1:J:134:LEU:HB2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:272:ALA:HB1	1:F:273:PRO:CD	2.47	0.42
1:I:469:ASP:HB3	1:L:473:ARG:HD2	2.01	0.42
1:D:778:THR:CG2	1:D:887:GLN:H	2.32	0.42
1:I:272:ALA:HB1	1:I:273:PRO:CD	2.47	0.42
1:H:778:THR:HB	1:H:887:GLN:CB	2.48	0.42
1:H:256:VAL:O	1:H:271:THR:HA	2.20	0.42
1:O:85:VAL:HG12	1:O:86:VAL:N	2.35	0.42
1:G:35:SER:O	1:G:50:GLN:HG3	2.18	0.42
1:O:1018:LEU:HD22	1:O:1019:VAL:N	2.35	0.42
1:F:141:ILE:HD13	1:F:143:PHE:CE1	2.55	0.42
1:I:141:ILE:HD13	1:I:143:PHE:CE1	2.55	0.42
1:H:141:ILE:HD13	1:H:143:PHE:CE1	2.55	0.42
1:N:141:ILE:HD13	1:N:143:PHE:CE1	2.55	0.42
1:E:870:VAL:CG1	1:E:871:GLU:N	2.81	0.42
1:E:570:TRP:HD1	1:E:571:VAL:HG22	1.84	0.42
1:L:445:GLN:HB3	1:L:445:GLN:HE21	1.54	0.42
1:F:368:ASP:O	1:F:369:GLU:C	2.58	0.42
1:D:694:LEU:O	1:D:722:LEU:N	2.51	0.42
1:H:368:ASP:O	1:H:369:GLU:C	2.58	0.42
1:P:373:VAL:O	1:P:374:GLN:C	2.57	0.42
1:L:369:GLU:O	1:L:373:VAL:HG23	2.19	0.42
1:B:369:GLU:O	1:B:373:VAL:HG23	2.19	0.42
1:D:214:LEU:HA	1:D:214:LEU:HD23	1.84	0.42
1:K:531:ARG:O	1:K:561:ARG:NH1	2.46	0.42
1:K:718:GLN:HG3	1:K:719:GLN:N	2.33	0.42
1:K:285:TYR:HB3	1:K:288:ARG:HG3	2.01	0.42
1:C:43:ARG:NH1	1:C:44:THR:HG23	2.34	0.42
1:F:102:ASN:ND2	1:F:201:ASP:CB	2.78	0.42
1:K:18:ASN:OD1	1:K:19:PRO:HD2	2.20	0.42
1:C:18:ASN:OD1	1:C:19:PRO:HD2	2.20	0.42
1:E:668:VAL:HG13	1:E:669:PRO:CD	2.38	0.42
1:M:257:THR:OG1	1:M:316:HIS:HE1	2.03	0.42
1:J:1021:CME:HZ3	1:J:1022:GLN:O	2.19	0.42
1:C:895:VAL:O	1:C:919:ASP:HA	2.19	0.42
1:K:62:TRP:C	1:K:63:PHE:CD1	2.93	0.42
1:H:230:ARG:NH2	1:H:241:GLU:OE2	2.51	0.42
1:I:62:TRP:C	1:I:63:PHE:CD1	2.93	0.42
1:F:62:TRP:C	1:F:63:PHE:CD1	2.93	0.42
1:N:114:VAL:HG21	1:N:192:SER:N	2.35	0.42
1:H:685:LEU:HA	1:H:686:PRO:HD3	1.70	0.42
1:O:34:ALA:HB3	1:O:36:TRP:CE3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:189:LEU:N	1:O:189:LEU:CD2	2.75	0.42
1:G:34:ALA:HB3	1:G:36:TRP:CE3	2.54	0.42
1:E:658:LEU:O	1:E:659:ASP:C	2.58	0.42
1:J:78:LEU:HB3	1:J:79:PRO:CD	2.45	0.42
1:J:78:LEU:CB	1:J:79:PRO:HD2	2.44	0.42
1:P:708:TRP:CZ3	1:P:709:SER:HB3	2.54	0.42
1:I:344:LEU:N	1:I:347:LYS:O	2.36	0.42
1:H:597:ASN:ND2	1:H:599:ARG:H	2.17	0.42
1:G:184:LEU:HA	1:G:184:LEU:HD23	1.83	0.42
1:H:502:MET:HA	1:H:537:GLU:O	2.20	0.42
1:A:256:VAL:O	1:A:271:THR:HA	2.20	0.42
1:O:35:SER:O	1:O:50:GLN:HG3	2.18	0.42
1:C:141:ILE:HD13	1:C:143:PHE:CE1	2.55	0.42
1:K:807:VAL:HG13	1:K:808:GLU:N	2.34	0.42
1:L:608:PHE:O	1:L:611:ARG:N	2.41	0.42
1:E:612:THR:HA	1:E:613:PRO:HD3	1.68	0.42
1:N:870:VAL:CG1	1:N:871:GLU:N	2.81	0.42
1:F:425:ARG:NH2	1:G:287:ASP:OD2	2.52	0.42
1:P:93:HIS:HB3	1:P:95:TYR:HE1	1.84	0.42
1:K:147:ASN:HB2	1:K:165:SER:HB3	2.01	0.42
1:J:829:THR:C	1:J:830:LEU:HD12	2.40	0.42
1:M:93:HIS:HB3	1:M:95:TYR:HE1	1.84	0.42
1:M:829:THR:C	1:M:830:LEU:HD12	2.40	0.42
1:K:353:GLY:C	1:K:566:PHE:HA	2.40	0.42
1:D:110:ASN:O	1:D:113:PHE:HB2	2.19	0.42
1:F:285:TYR:HB3	1:F:288:ARG:HG3	2.01	0.42
1:I:149:ALA:O	1:I:150:PHE:HB3	2.18	0.42
1:N:285:TYR:HB3	1:N:288:ARG:HG3	2.01	0.42
1:I:476:LYS:HA	1:I:476:LYS:HD2	1.81	0.42
1:G:694:LEU:HA	1:G:694:LEU:HD12	1.69	0.42
1:N:694:LEU:HD12	1:N:694:LEU:HA	1.69	0.42
1:I:221:GLN:HG2	1:I:221:GLN:H	1.70	0.42
1:B:264:GLU:HA	1:B:264:GLU:OE2	2.17	0.42
1:G:391:HIS:ND1	1:G:412:GLU:OE1	2.44	0.42
1:D:285:TYR:HB3	1:D:288:ARG:HG3	2.01	0.42
1:K:369:GLU:O	1:K:373:VAL:HG23	2.19	0.42
1:A:149:ALA:O	1:A:150:PHE:HB3	2.18	0.42
1:E:368:ASP:O	1:E:369:GLU:C	2.58	0.42
1:H:149:ALA:O	1:H:150:PHE:HB3	2.18	0.42
1:J:436:MET:HE3	1:J:467:ASN:ND2	2.18	0.42
1:I:436:MET:HE3	1:I:467:ASN:ND2	2.22	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:18:ASN:OD1	1:B:19:PRO:HD2	2.20	0.42
1:I:57:GLU:HG2	1:I:83:THR:HG21	1.93	0.42
1:G:257:THR:OG1	1:G:316:HIS:HE1	2.03	0.42
1:I:46:ARG:HB3	1:I:47:PRO:HD2	2.00	0.42
1:G:579:ASP:OD1	1:G:583:ASN:N	2.43	0.42
1:N:583:ASN:HA	1:N:584:PRO:HD3	1.79	0.42
1:E:781:ARG:CG	1:E:781:ARG:HH11	2.19	0.42
1:A:423:MET:HB2	1:D:282:ARG:CG	2.44	0.42
1:P:62:TRP:C	1:P:63:PHE:CD1	2.93	0.42
1:H:230:ARG:HH11	1:H:230:ARG:CG	2.24	0.42
1:J:763:GLY:HA3	1:J:822:LEU:HD22	2.01	0.42
1:J:62:TRP:C	1:J:63:PHE:CD1	2.93	0.42
1:D:685:LEU:HA	1:D:686:PRO:HD3	1.70	0.42
1:I:260:LEU:C	1:I:267:VAL:HG23	2.40	0.42
1:P:138:GLN:N	1:P:217:LYS:O	2.36	0.42
1:H:260:LEU:HD12	1:H:260:LEU:HA	1.61	0.42
1:G:260:LEU:HD12	1:G:310:ARG:O	2.19	0.42
1:C:701:VAL:HG12	1:C:702:GLN:H	1.82	0.42
1:H:701:VAL:CG1	1:H:702:GLN:N	2.81	0.42
1:P:78:LEU:HB3	1:P:79:PRO:CD	2.45	0.42
1:A:282:ARG:HH11	1:D:419:GLY:HA2	1.84	0.42
1:B:658:LEU:O	1:B:659:ASP:C	2.58	0.42
1:M:673:ALA:O	1:M:676:GLY:N	2.47	0.42
1:J:418:HIS:O	1:K:282:ARG:HD3	2.20	0.42
1:J:800:ARG:CZ	1:J:800:ARG:CB	2.98	0.42
1:C:708:TRP:CZ3	1:C:709:SER:HB3	2.54	0.42
1:H:800:ARG:CB	1:H:800:ARG:CZ	2.98	0.42
1:M:800:ARG:CZ	1:M:800:ARG:CB	2.98	0.42
1:J:256:VAL:O	1:J:271:THR:HA	2.20	0.42
1:L:778:THR:O	1:L:778:THR:HG22	2.20	0.42
1:I:645:ARG:NH2	1:I:650:GLU:OE2	2.48	0.42
1:E:256:VAL:O	1:E:271:THR:HA	2.20	0.42
1:G:256:VAL:O	1:G:271:THR:HA	2.20	0.42
1:B:645:ARG:NH2	1:B:650:GLU:OE2	2.48	0.42
1:P:256:VAL:O	1:P:271:THR:HA	2.20	0.42
1:I:778:THR:HG22	1:I:778:THR:O	2.20	0.42
1:J:178:ARG:HH11	1:J:178:ARG:CB	2.33	0.42
1:O:141:ILE:HD13	1:O:143:PHE:CE1	2.55	0.42
1:P:141:ILE:HD13	1:P:143:PHE:CE1	2.55	0.42
1:P:70:PRO:O	1:P:73:TRP:N	2.45	0.42
1:G:829:THR:C	1:G:830:LEU:HD12	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:829:THR:C	1:K:830:LEU:HD12	2.40	0.42
1:L:637:GLU:HA	1:L:679:LEU:HD23	2.01	0.42
1:E:1004:SER:HB2	1:E:1006:GLU:OE2	2.20	0.42
1:C:285:TYR:HB3	1:C:288:ARG:HG3	2.01	0.42
1:I:972:HIS:HB3	5:I:2155:HOH:O	2.18	0.42
1:M:375:ASP:O	1:M:379:MET:HG3	2.19	0.42
1:M:1004:SER:HB2	1:M:1006:GLU:OE2	2.20	0.42
1:M:281:GLU:HG3	1:P:515:VAL:HG21	2.02	0.42
1:N:111:PRO:HA	1:N:112:PRO:HA	1.57	0.42
1:H:1004:SER:HB2	1:H:1006:GLU:OE2	2.20	0.42
1:G:118:ASN:HA	1:G:119:PRO:HD2	1.60	0.42
1:H:110:ASN:O	1:H:113:PHE:HB2	2.19	0.42
1:N:221:GLN:HG2	1:N:221:GLN:H	1.70	0.42
1:C:670:LEU:HD23	1:C:670:LEU:HA	1.67	0.42
1:A:722:LEU:HA	1:A:722:LEU:HD23	1.75	0.42
1:G:476:LYS:HA	1:G:476:LYS:HD2	1.81	0.42
1:A:391:HIS:ND1	1:A:412:GLU:OE1	2.44	0.42
1:O:118:ASN:HA	1:O:119:PRO:HD2	1.60	0.42
1:F:147:ASN:HB2	1:F:165:SER:HB3	2.02	0.42
1:N:972:HIS:HB3	5:N:2158:HOH:O	2.18	0.42
1:E:436:MET:HE3	1:E:467:ASN:ND2	2.23	0.42
1:G:316:HIS:HA	1:G:323:ILE:HD12	1.99	0.42
1:K:257:THR:OG1	1:K:316:HIS:HE1	2.03	0.42
1:I:360:HIS:ND1	1:I:362:LEU:HB2	2.35	0.42
1:O:579:ASP:OD1	1:O:583:ASN:N	2.43	0.42
1:M:781:ARG:HH11	1:M:781:ARG:CG	2.19	0.42
1:N:895:VAL:O	1:N:919:ASP:HA	2.19	0.42
1:O:62:TRP:C	1:O:63:PHE:CD1	2.93	0.42
1:E:62:TRP:C	1:E:63:PHE:CD1	2.93	0.42
1:I:114:VAL:HG21	1:I:192:SER:N	2.35	0.42
1:A:114:VAL:HG21	1:A:192:SER:N	2.34	0.42
1:H:114:VAL:HG21	1:H:192:SER:N	2.35	0.42
1:O:114:VAL:HG21	1:O:192:SER:N	2.34	0.42
1:L:657:ALA:HA	1:L:661:LYS:O	2.19	0.42
1:E:282:ARG:NH1	1:H:419:GLY:HA2	2.34	0.42
1:N:234:ASP:OD1	1:N:236:SER:HB3	2.20	0.42
1:H:237:ARG:NH1	1:H:237:ARG:CG	2.81	0.42
1:O:234:ASP:OD1	1:O:236:SER:HB3	2.20	0.42
1:J:597:ASN:ND2	1:J:599:ARG:H	2.17	0.42
1:O:184:LEU:HA	1:O:184:LEU:HD23	1.84	0.42
1:N:256:VAL:O	1:N:271:THR:HA	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:256:VAL:O	1:O:271:THR:HA	2.20	0.42
1:M:256:VAL:O	1:M:271:THR:HA	2.20	0.42
1:B:178:ARG:HH11	1:B:178:ARG:CB	2.33	0.42
1:B:1018:LEU:HD22	1:B:1019:VAL:N	2.35	0.42
1:L:807:VAL:HG13	1:L:808:GLU:N	2.34	0.42
1:B:93:HIS:HB3	1:B:95:TYR:HE1	1.84	0.42
1:P:147:ASN:HB2	1:P:165:SER:HB3	2.02	0.42
1:O:829:THR:C	1:O:830:LEU:HD12	2.40	0.42
1:N:147:ASN:HB2	1:N:165:SER:HB3	2.02	0.42
1:M:718:GLN:HG3	1:M:719:GLN:N	2.34	0.42
1:F:390:SER:HA	1:F:391:HIS:HA	1.91	0.42
1:I:1004:SER:HB2	1:I:1006:GLU:OE2	2.20	0.42
1:H:757:GLN:HG2	1:H:757:GLN:O	2.12	0.42
1:J:726:LEU:HA	1:J:726:LEU:HD23	1.65	0.42
1:H:200:GLN:OE1	1:H:200:GLN:N	2.44	0.42
1:N:772:ASP:N	1:N:772:ASP:OD1	2.30	0.42
1:D:476:LYS:HA	1:D:476:LYS:HD2	1.81	0.42
1:L:264:GLU:OE2	1:L:264:GLU:HA	2.17	0.42
1:A:546:LEU:HA	1:A:546:LEU:HD12	1.84	0.42
1:K:214:LEU:HD23	1:K:214:LEU:HA	1.84	0.42
1:A:378:LEU:HA	1:A:378:LEU:HD23	1.53	0.42
1:H:363:HIS:N	1:H:363:HIS:CD2	2.81	0.42
1:G:670:LEU:HD23	1:G:670:LEU:HA	1.67	0.42
1:P:173:LEU:HD23	1:P:173:LEU:HA	1.69	0.42
1:B:118:ASN:HA	1:B:119:PRO:HD2	1.60	0.42
1:E:718:GLN:HG3	1:E:719:GLN:N	2.34	0.42
1:H:147:ASN:HB2	1:H:165:SER:HB3	2.02	0.42
1:L:43:ARG:NH1	1:L:44:THR:HG23	2.34	0.42
1:L:257:THR:OG1	1:L:316:HIS:HE1	2.03	0.42
1:O:18:ASN:OD1	1:O:19:PRO:HD2	2.20	0.42
1:H:257:THR:OG1	1:H:316:HIS:HE1	2.03	0.42
1:L:46:ARG:HB3	1:L:47:PRO:CD	2.50	0.42
1:M:360:HIS:ND1	1:M:362:LEU:HB2	2.35	0.42
1:O:360:HIS:ND1	1:O:362:LEU:HB2	2.35	0.42
1:G:360:HIS:ND1	1:G:362:LEU:HB2	2.35	0.42
1:E:360:HIS:HA	1:E:361:PRO:HD3	1.86	0.42
1:P:895:VAL:O	1:P:919:ASP:HA	2.19	0.42
1:D:230:ARG:CG	1:D:230:ARG:HH11	2.24	0.42
1:O:120:THR:HG21	1:O:187:MET:HE3	2.01	0.42
1:C:114:VAL:HG21	1:C:192:SER:N	2.35	0.42
1:F:822:LEU:C	1:F:822:LEU:HD12	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:763:GLY:HA3	1:N:822:LEU:HD22	2.01	0.42
1:F:210:ARG:HH11	1:F:395:HIS:CA	2.32	0.42
1:E:114:VAL:HG21	1:E:192:SER:N	2.35	0.42
1:O:260:LEU:HD12	1:O:310:ARG:O	2.19	0.42
1:H:260:LEU:HD12	1:H:310:ARG:O	2.19	0.42
1:M:37:ARG:CG	1:M:37:ARG:NH1	2.79	0.42
1:K:657:ALA:HA	1:K:661:LYS:O	2.19	0.42
1:P:49:GLN:H	1:P:49:GLN:CD	2.20	0.42
1:D:658:LEU:O	1:D:659:ASP:C	2.58	0.42
1:E:78:LEU:HB3	1:E:79:PRO:CD	2.45	0.42
1:P:4:THR:CA	1:P:9:VAL:HG11	2.47	0.42
1:P:597:ASN:ND2	1:P:599:ARG:H	2.17	0.42
1:I:502:MET:HA	1:I:537:GLU:O	2.20	0.42
1:O:178:ARG:CB	1:O:178:ARG:HH11	2.33	0.42
1:G:178:ARG:HH11	1:G:178:ARG:CB	2.33	0.42
1:L:778:THR:CG2	1:L:887:GLN:H	2.32	0.42
1:N:906:TYR:HB3	1:N:907:PRO:CD	2.50	0.42
1:K:256:VAL:O	1:K:271:THR:HA	2.20	0.42
1:D:178:ARG:HH11	1:D:178:ARG:CB	2.33	0.42
1:P:85:VAL:HG12	1:P:86:VAL:N	2.34	0.42
1:A:807:VAL:HG13	1:A:808:GLU:N	2.34	0.42
1:L:141:ILE:HD13	1:L:143:PHE:CE1	2.55	0.42
1:N:69:VAL:HG12	1:N:70:PRO:N	2.35	0.42
1:D:141:ILE:HD13	1:D:143:PHE:CE1	2.55	0.42
1:A:69:VAL:HG12	1:A:70:PRO:N	2.35	0.42
1:A:612:THR:HA	1:A:613:PRO:HD3	1.68	0.42
1:G:870:VAL:CG1	1:G:871:GLU:N	2.81	0.42
1:J:93:HIS:HB3	1:J:95:TYR:HE1	1.84	0.42
1:L:829:THR:C	1:L:830:LEU:HD12	2.40	0.42
1:P:829:THR:C	1:P:830:LEU:HD12	2.40	0.42
1:H:829:THR:C	1:H:830:LEU:HD12	2.40	0.42
1:I:829:THR:C	1:I:830:LEU:HD12	2.40	0.42
1:B:531:ARG:O	1:B:561:ARG:NH1	2.46	0.42
1:J:513:PRO:O	1:J:514:ALA:HB3	2.20	0.42
1:D:513:PRO:O	1:D:514:ALA:HB3	2.20	0.42
1:C:353:GLY:C	1:C:566:PHE:HA	2.40	0.42
1:P:476:LYS:HD2	1:P:476:LYS:HA	1.81	0.42
1:K:670:LEU:HD23	1:K:670:LEU:HA	1.67	0.42
1:L:513:PRO:O	1:L:514:ALA:HB3	2.20	0.42
1:J:285:TYR:HB3	1:J:288:ARG:HG3	2.01	0.42
1:A:961:ARG:NH2	1:A:979:GLU:O	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:43:ARG:CG	1:H:43:ARG:HH11	2.10	0.41
1:A:43:ARG:NH1	1:A:44:THR:HG23	2.34	0.41
1:A:46:ARG:HB3	1:A:47:PRO:CD	2.50	0.41
1:I:257:THR:HA	1:I:270:GLY:O	2.20	0.41
1:G:18:ASN:OD1	1:G:19:PRO:HD2	2.20	0.41
1:F:257:THR:HA	1:F:270:GLY:O	2.20	0.41
1:I:651:LEU:HA	1:I:651:LEU:HD13	1.51	0.41
1:E:46:ARG:HB3	1:E:47:PRO:CD	2.50	0.41
1:B:257:THR:HA	1:B:270:GLY:O	2.20	0.41
1:D:46:ARG:HB3	1:D:47:PRO:CD	2.50	0.41
1:D:92:MET:HE3	1:D:362:LEU:O	2.20	0.41
1:G:651:LEU:HD12	1:G:668:VAL:O	2.19	0.41
1:D:251:ARG:CB	1:D:253:TYR:CE2	2.98	0.41
1:D:230:ARG:NH2	1:D:241:GLU:OE2	2.51	0.41
1:P:114:VAL:HG21	1:P:192:SER:N	2.34	0.41
1:M:114:VAL:HG21	1:M:192:SER:N	2.34	0.41
1:P:34:ALA:HB3	1:P:36:TRP:CE3	2.54	0.41
1:J:138:GLN:N	1:J:217:LYS:O	2.36	0.41
1:N:34:ALA:HB3	1:N:36:TRP:CE3	2.54	0.41
1:K:24:LEU:HA	1:K:24:LEU:HD12	1.62	0.41
1:J:336:ARG:CG	1:J:336:ARG:HH11	2.26	0.41
1:K:579:ASP:OD1	1:K:583:ASN:N	2.43	0.41
1:A:282:ARG:HB2	1:D:422:PRO:HA	2.01	0.41
1:O:673:ALA:O	1:O:676:GLY:N	2.47	0.41
1:L:900:LEU:HB2	1:L:939:CYS:O	2.20	0.41
1:P:800:ARG:CB	1:P:800:ARG:CZ	2.98	0.41
1:L:800:ARG:CZ	1:L:800:ARG:CB	2.98	0.41
1:C:568:TRP:CD2	1:C:569:ASP:HB3	2.54	0.41
1:D:568:TRP:CD2	1:D:569:ASP:HB3	2.54	0.41
1:P:178:ARG:CB	1:P:178:ARG:HH11	2.33	0.41
1:E:568:TRP:CD2	1:E:569:ASP:HB3	2.54	0.41
1:H:178:ARG:CB	1:H:178:ARG:HH11	2.33	0.41
1:M:502:MET:HA	1:M:537:GLU:O	2.20	0.41
1:J:502:MET:HA	1:J:537:GLU:O	2.20	0.41
1:I:178:ARG:HH11	1:I:178:ARG:CB	2.33	0.41
1:P:502:MET:HA	1:P:537:GLU:O	2.20	0.41
1:A:778:THR:O	1:A:778:THR:HG22	2.20	0.41
1:B:256:VAL:O	1:B:271:THR:HA	2.20	0.41
1:K:502:MET:HA	1:K:537:GLU:O	2.20	0.41
1:J:645:ARG:NH2	1:J:650:GLU:OE2	2.48	0.41
1:B:778:THR:CG2	1:B:887:GLN:H	2.32	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1018:LEU:HD22	1:C:1019:VAL:N	2.35	0.41
1:F:807:VAL:HG13	1:F:808:GLU:N	2.34	0.41
1:N:73:TRP:O	1:N:183:ARG:NH1	2.48	0.41
1:B:570:TRP:HD1	1:B:571:VAL:HG22	1.84	0.41
1:I:570:TRP:HD1	1:I:571:VAL:HG22	1.84	0.41
1:A:93:HIS:HB3	1:A:95:TYR:HE1	1.84	0.41
1:E:369:GLU:O	1:E:373:VAL:HG23	2.19	0.41
1:G:147:ASN:HA	1:G:148:SER:HA	1.54	0.41
1:A:353:GLY:C	1:A:566:PHE:HA	2.40	0.41
1:H:896:ASN:HA	1:H:918:TRP:O	2.20	0.41
1:J:718:GLN:HG3	1:J:719:GLN:N	2.34	0.41
1:B:200:GLN:OE1	1:B:200:GLN:N	2.44	0.41
1:K:350:LEU:HA	1:K:350:LEU:HD12	1.78	0.41
1:M:231:PHE:N	1:M:231:PHE:CD1	2.88	0.41
1:P:757:GLN:HG2	1:P:757:GLN:O	2.12	0.41
1:C:772:ASP:OD1	1:C:772:ASP:N	2.30	0.41
1:J:214:LEU:HA	1:J:214:LEU:HD23	1.84	0.41
1:K:202:MET:HE3	1:K:202:MET:HB3	1.85	0.41
1:G:378:LEU:HA	1:G:378:LEU:HD23	1.53	0.41
1:M:200:GLN:N	1:M:200:GLN:OE1	2.44	0.41
1:O:378:LEU:HA	1:O:378:LEU:HD23	1.53	0.41
1:I:110:ASN:O	1:I:113:PHE:HB2	2.19	0.41
1:G:513:PRO:O	1:G:514:ALA:HB3	2.20	0.41
1:A:513:PRO:O	1:A:514:ALA:HB3	2.20	0.41
1:E:285:TYR:HB3	1:E:288:ARG:HG3	2.01	0.41
1:F:46:ARG:HB3	1:F:47:PRO:CD	2.50	0.41
1:C:46:ARG:HB3	1:C:47:PRO:CD	2.50	0.41
1:K:46:ARG:HB3	1:K:47:PRO:CD	2.50	0.41
1:B:46:ARG:HB3	1:B:47:PRO:CD	2.50	0.41
1:D:323:ILE:N	1:D:323:ILE:CD1	2.82	0.41
1:G:46:ARG:HB3	1:G:47:PRO:CD	2.50	0.41
1:O:46:ARG:HB3	1:O:47:PRO:CD	2.50	0.41
1:H:360:HIS:HA	1:H:361:PRO:HD3	1.86	0.41
1:G:668:VAL:HG13	1:G:669:PRO:CD	2.38	0.41
1:C:781:ARG:NH1	1:C:781:ARG:CG	2.79	0.41
1:P:67:GLU:HG2	1:P:67:GLU:H	1.31	0.41
1:J:255:ARG:CG	1:J:255:ARG:NH1	2.79	0.41
1:K:685:LEU:HA	1:K:686:PRO:HD3	1.70	0.41
1:J:260:LEU:HD12	1:J:310:ARG:O	2.19	0.41
1:J:260:LEU:C	1:J:267:VAL:HG23	2.40	0.41
1:H:34:ALA:HB3	1:H:36:TRP:CE3	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:34:ALA:HB3	1:F:36:TRP:CE3	2.54	0.41
1:H:658:LEU:O	1:H:659:ASP:C	2.58	0.41
1:F:49:GLN:H	1:F:49:GLN:CD	2.20	0.41
1:I:900:LEU:HD23	1:I:900:LEU:HA	1.75	0.41
1:J:237:ARG:CG	1:J:237:ARG:NH1	2.81	0.41
1:I:800:ARG:CB	1:I:800:ARG:CZ	2.98	0.41
1:M:234:ASP:OD1	1:M:236:SER:HB3	2.20	0.41
1:C:597:ASN:ND2	1:C:599:ARG:H	2.17	0.41
1:A:906:TYR:HB3	1:A:907:PRO:CD	2.50	0.41
1:N:730:LEU:HA	1:N:731:PRO:HD3	1.74	0.41
1:G:778:THR:HB	1:G:887:GLN:CB	2.49	0.41
1:M:778:THR:HG22	1:M:778:THR:O	2.20	0.41
1:B:85:VAL:HG12	1:B:86:VAL:N	2.35	0.41
1:B:778:THR:HB	1:B:887:GLN:CB	2.48	0.41
1:D:1018:LEU:HD22	1:D:1019:VAL:N	2.35	0.41
1:I:1018:LEU:HD22	1:I:1019:VAL:N	2.35	0.41
1:J:425:ARG:HH22	1:K:287:ASP:CG	2.23	0.41
1:I:69:VAL:HG12	1:I:70:PRO:N	2.35	0.41
1:M:69:VAL:HA	1:M:70:PRO:HD2	1.77	0.41
1:F:570:TRP:HD1	1:F:571:VAL:HG22	1.84	0.41
1:O:147:ASN:HB2	1:O:165:SER:HB3	2.02	0.41
1:N:390:SER:HA	1:N:391:HIS:HA	1.91	0.41
1:D:829:THR:C	1:D:830:LEU:HD12	2.40	0.41
1:D:637:GLU:HA	1:D:679:LEU:HD23	2.01	0.41
1:J:368:ASP:O	1:J:369:GLU:C	2.58	0.41
1:G:147:ASN:HB2	1:G:165:SER:HB3	2.02	0.41
1:P:896:ASN:HA	1:P:918:TRP:O	2.21	0.41
1:J:363:HIS:N	1:J:363:HIS:CD2	2.81	0.41
1:L:617:LEU:HA	1:L:617:LEU:HD12	1.88	0.41
1:O:231:PHE:N	1:O:231:PHE:CD1	2.88	0.41
1:D:231:PHE:CD1	1:D:231:PHE:N	2.88	0.41
1:C:363:HIS:CD2	1:C:363:HIS:N	2.81	0.41
1:F:531:ARG:O	1:F:561:ARG:NH1	2.46	0.41
1:D:749:ILE:N	1:D:749:ILE:CD1	2.78	0.41
1:E:436:MET:HE1	1:E:467:ASN:HB2	2.02	0.41
1:F:651:LEU:HD12	1:F:668:VAL:O	2.19	0.41
1:I:257:THR:OG1	1:I:316:HIS:HE1	2.03	0.41
1:P:257:THR:HA	1:P:270:GLY:O	2.20	0.41
1:D:257:THR:HA	1:D:270:GLY:O	2.20	0.41
1:K:257:THR:HA	1:K:270:GLY:O	2.20	0.41
1:K:323:ILE:CD1	1:K:323:ILE:N	2.82	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:668:VAL:HG13	1:C:669:PRO:CD	2.38	0.41
1:H:257:THR:HA	1:H:270:GLY:O	2.20	0.41
1:P:360:HIS:HA	1:P:361:PRO:HD3	1.86	0.41
1:O:668:VAL:HG13	1:O:669:PRO:CD	2.38	0.41
1:M:781:ARG:CG	1:M:781:ARG:NH1	2.79	0.41
1:E:227:VAL:CG1	1:E:240:LEU:HD11	2.42	0.41
1:O:822:LEU:HD12	1:O:823:LEU:H	1.80	0.41
1:M:62:TRP:C	1:M:63:PHE:CD1	2.93	0.41
1:F:114:VAL:HG21	1:F:192:SER:N	2.35	0.41
1:I:655:MET:HE2	1:I:655:MET:C	2.41	0.41
1:A:822:LEU:C	1:A:822:LEU:HD12	2.37	0.41
1:I:763:GLY:HA3	1:I:822:LEU:HD22	2.01	0.41
1:G:260:LEU:C	1:G:267:VAL:HG23	2.40	0.41
1:O:24:LEU:HA	1:O:24:LEU:HD12	1.62	0.41
1:G:49:GLN:N	1:G:49:GLN:NE2	2.64	0.41
1:F:658:LEU:O	1:F:659:ASP:C	2.58	0.41
1:F:377:LEU:HD23	1:F:377:LEU:HA	1.91	0.41
1:F:282:ARG:HH11	1:G:419:GLY:HA2	1.83	0.41
1:B:800:ARG:CZ	1:B:800:ARG:CB	2.98	0.41
1:L:234:ASP:OD1	1:L:236:SER:HB3	2.20	0.41
1:G:800:ARG:CZ	1:G:800:ARG:CB	2.98	0.41
1:B:900:LEU:HB2	1:B:939:CYS:O	2.21	0.41
1:G:900:LEU:HD23	1:G:900:LEU:HA	1.75	0.41
1:P:900:LEU:HB2	1:P:939:CYS:O	2.21	0.41
1:O:237:ARG:CG	1:O:237:ARG:NH1	2.82	0.41
1:K:597:ASN:ND2	1:K:599:ARG:H	2.17	0.41
1:O:901:GLY:HA3	1:O:902:PRO:HA	1.86	0.41
1:F:347:LYS:CB	1:F:348:PRO:HD2	2.43	0.41
1:F:597:ASN:ND2	1:F:599:ARG:H	2.17	0.41
1:L:256:VAL:O	1:L:271:THR:HA	2.20	0.41
1:D:778:THR:O	1:D:778:THR:HG22	2.20	0.41
1:H:778:THR:HG22	1:H:778:THR:O	2.20	0.41
1:E:778:THR:HG22	1:E:778:THR:O	2.20	0.41
1:P:778:THR:O	1:P:778:THR:HG22	2.20	0.41
1:I:778:THR:CG2	1:I:887:GLN:H	2.32	0.41
1:K:85:VAL:HG12	1:K:86:VAL:N	2.34	0.41
1:B:1018:LEU:HA	1:B:1018:LEU:HD23	1.51	0.41
1:H:69:VAL:HG12	1:H:70:PRO:N	2.35	0.41
1:G:141:ILE:HD13	1:G:143:PHE:CE1	2.55	0.41
1:O:570:TRP:HD1	1:O:571:VAL:HG22	1.84	0.41
1:B:829:THR:C	1:B:830:LEU:HD12	2.40	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:829:THR:C	1:A:830:LEU:HD12	2.40	0.41
1:K:694:LEU:O	1:K:722:LEU:N	2.51	0.41
1:D:368:ASP:O	1:D:369:GLU:C	2.58	0.41
1:N:368:ASP:O	1:N:369:GLU:C	2.58	0.41
1:M:531:ARG:O	1:M:561:ARG:NH1	2.46	0.41
1:I:896:ASN:HA	1:I:918:TRP:O	2.21	0.41
1:M:285:TYR:HB3	1:M:288:ARG:HG3	2.01	0.41
1:O:369:GLU:O	1:O:373:VAL:HG23	2.19	0.41
1:D:264:GLU:OE2	1:D:264:GLU:HA	2.17	0.41
1:A:214:LEU:HA	1:A:214:LEU:HD23	1.84	0.41
1:E:726:LEU:HD23	1:E:726:LEU:HA	1.65	0.41
1:E:363:HIS:CD2	1:E:363:HIS:N	2.81	0.41
1:M:363:HIS:CD2	1:M:363:HIS:N	2.81	0.41
1:B:617:LEU:HA	1:B:617:LEU:HD12	1.88	0.41
1:E:202:MET:HE3	1:E:202:MET:HB3	1.87	0.41
1:O:617:LEU:HA	1:O:617:LEU:HD12	1.88	0.41
1:B:363:HIS:CD2	1:B:363:HIS:N	2.81	0.41
1:J:353:GLY:C	1:J:566:PHE:HA	2.40	0.41
1:M:421:VAL:O	1:M:425:ARG:NH1	2.46	0.41
1:P:18:ASN:OD1	1:P:19:PRO:HD2	2.20	0.41
1:B:257:THR:OG1	1:B:316:HIS:HE1	2.03	0.41
1:A:257:THR:HA	1:A:270:GLY:O	2.20	0.41
1:N:46:ARG:HB3	1:N:47:PRO:CD	2.50	0.41
1:O:57:GLU:HG2	1:O:83:THR:HG21	1.94	0.41
1:C:257:THR:OG1	1:C:316:HIS:HE1	2.03	0.41
1:C:323:ILE:CD1	1:C:323:ILE:N	2.82	0.41
1:J:323:ILE:CD1	1:J:323:ILE:N	2.82	0.41
1:I:583:ASN:HA	1:I:584:PRO:HD3	1.80	0.41
1:B:781:ARG:CG	1:B:781:ARG:NH1	2.79	0.41
1:O:651:LEU:HD12	1:O:668:VAL:O	2.19	0.41
1:K:251:ARG:CB	1:K:253:TYR:CE2	2.98	0.41
1:M:1021:CME:HZ3	1:M:1022:GLN:O	2.19	0.41
1:H:62:TRP:C	1:H:63:PHE:CD1	2.93	0.41
1:G:62:TRP:C	1:G:63:PHE:CD1	2.93	0.41
1:C:62:TRP:C	1:C:63:PHE:CD1	2.93	0.41
1:A:62:TRP:C	1:A:63:PHE:CD1	2.93	0.41
1:O:763:GLY:HA3	1:O:822:LEU:HD22	2.01	0.41
1:L:62:TRP:C	1:L:63:PHE:CD1	2.93	0.41
1:K:114:VAL:HG21	1:K:192:SER:N	2.34	0.41
1:M:730:LEU:HD21	1:N:823:LEU:O	2.19	0.41
1:G:114:VAL:HG21	1:G:192:SER:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:138:GLN:N	1:C:217:LYS:O	2.36	0.41
1:A:696:LEU:CD1	1:A:697:THR:N	2.80	0.41
1:C:595:THR:CG2	1:C:596:PRO:HA	2.46	0.41
1:D:267:VAL:HG23	1:D:267:VAL:H	1.51	0.41
1:I:658:LEU:O	1:I:659:ASP:C	2.58	0.41
1:I:657:ALA:HA	1:I:661:LYS:O	2.19	0.41
1:O:49:GLN:NE2	1:O:49:GLN:N	2.64	0.41
1:O:78:LEU:HA	1:O:79:PRO:HD3	1.94	0.41
1:C:31:PRO:HA	1:C:32:PRO:HD3	1.88	0.41
1:G:900:LEU:HB2	1:G:939:CYS:O	2.21	0.41
1:O:900:LEU:HB2	1:O:939:CYS:O	2.21	0.41
1:D:901:GLY:HA3	1:D:902:PRO:HA	1.86	0.41
1:B:184:LEU:HA	1:B:184:LEU:HD23	1.84	0.41
1:K:429:ASP:O	1:K:432:TRP:N	2.44	0.41
1:G:778:THR:CG2	1:G:887:GLN:H	2.32	0.41
1:M:85:VAL:HG12	1:M:86:VAL:N	2.34	0.41
1:L:85:VAL:HG12	1:L:86:VAL:N	2.34	0.41
1:H:1018:LEU:HD22	1:H:1019:VAL:N	2.35	0.41
1:F:69:VAL:HG12	1:F:70:PRO:N	2.35	0.41
1:G:69:VAL:HG12	1:G:70:PRO:N	2.35	0.41
1:D:69:VAL:HG12	1:D:70:PRO:N	2.35	0.41
1:L:69:VAL:HG12	1:L:70:PRO:N	2.35	0.41
1:G:570:TRP:HD1	1:G:571:VAL:HG22	1.84	0.41
1:B:421:VAL:O	1:B:425:ARG:NH1	2.46	0.41
1:E:829:THR:C	1:E:830:LEU:HD12	2.40	0.41
1:P:694:LEU:O	1:P:722:LEU:N	2.51	0.41
1:K:368:ASP:O	1:K:369:GLU:C	2.58	0.41
1:H:513:PRO:O	1:H:514:ALA:HB3	2.20	0.41
1:M:368:ASP:O	1:M:369:GLU:C	2.58	0.41
1:J:391:HIS:ND1	1:J:412:GLU:OE1	2.44	0.41
1:A:1004:SER:HB2	1:A:1006:GLU:OE2	2.20	0.41
1:K:513:PRO:O	1:K:514:ALA:HB3	2.20	0.41
1:B:857:ARG:HH11	1:B:857:ARG:HG2	1.86	0.41
1:C:214:LEU:HA	1:C:214:LEU:HD23	1.84	0.41
1:M:391:HIS:ND1	1:M:412:GLU:OE1	2.44	0.41
1:O:874:SER:HB3	1:P:724:GLU:OE1	2.20	0.41
1:H:740:LEU:CD1	1:H:741:THR:N	2.80	0.41
1:P:668:VAL:HG13	1:P:669:PRO:CD	2.38	0.41
1:P:361:PRO:HB2	1:P:576:ILE:HD12	2.03	0.41
1:C:255:ARG:CG	1:C:255:ARG:NH1	2.79	0.41
1:D:255:ARG:NH1	1:D:255:ARG:CG	2.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:62:TRP:C	1:D:63:PHE:CD1	2.93	0.41
1:C:822:LEU:HD12	1:C:823:LEU:H	1.80	0.41
1:B:114:VAL:HG21	1:B:192:SER:N	2.34	0.41
1:N:822:LEU:C	1:N:822:LEU:HD12	2.37	0.41
1:K:260:LEU:C	1:K:267:VAL:HG23	2.40	0.41
1:L:260:LEU:C	1:L:267:VAL:HG23	2.40	0.41
1:K:696:LEU:CD1	1:K:697:THR:N	2.80	0.41
1:D:260:LEU:C	1:D:267:VAL:HG23	2.40	0.41
1:L:49:GLN:N	1:L:49:GLN:NE2	2.64	0.41
1:L:78:LEU:CB	1:L:79:PRO:CD	2.99	0.41
1:K:583:ASN:HA	1:K:584:PRO:HD3	1.79	0.41
1:E:673:ALA:O	1:E:676:GLY:N	2.47	0.41
1:G:658:LEU:O	1:G:659:ASP:C	2.58	0.41
1:J:658:LEU:O	1:J:659:ASP:C	2.58	0.41
1:H:377:LEU:HD23	1:H:377:LEU:HA	1.90	0.41
1:P:234:ASP:OD1	1:P:236:SER:HB3	2.20	0.41
1:H:900:LEU:HB2	1:H:939:CYS:O	2.21	0.41
1:C:344:LEU:N	1:C:347:LYS:O	2.36	0.41
1:A:900:LEU:HB2	1:A:939:CYS:O	2.21	0.41
1:N:597:ASN:ND2	1:N:599:ARG:H	2.17	0.41
1:L:178:ARG:HH11	1:L:178:ARG:CB	2.33	0.41
1:H:429:ASP:O	1:H:432:TRP:N	2.44	0.41
1:P:645:ARG:NH2	1:P:650:GLU:CD	2.74	0.41
1:C:778:THR:HG22	1:C:778:THR:O	2.20	0.41
1:O:645:ARG:NH2	1:O:650:GLU:CD	2.74	0.41
1:J:778:THR:O	1:J:778:THR:HG22	2.20	0.41
1:B:429:ASP:OD1	1:B:431:ARG:N	2.51	0.41
1:G:645:ARG:NH2	1:G:650:GLU:CD	2.74	0.41
1:A:134:LEU:CD1	1:A:179:ALA:HA	2.51	0.41
1:F:85:VAL:HG12	1:F:86:VAL:N	2.35	0.41
1:E:85:VAL:HG12	1:E:86:VAL:N	2.34	0.41
1:P:69:VAL:HG12	1:P:70:PRO:N	2.35	0.41
1:E:69:VAL:HG12	1:E:70:PRO:N	2.35	0.41
1:O:608:PHE:O	1:O:611:ARG:N	2.41	0.41
1:B:515:VAL:HG21	1:C:281:GLU:CD	2.41	0.41
1:C:829:THR:C	1:C:830:LEU:HD12	2.40	0.41
1:I:679:LEU:HA	1:I:679:LEU:HD23	1.26	0.41
1:M:369:GLU:O	1:M:373:VAL:HG23	2.19	0.41
1:H:718:GLN:HG3	1:H:719:GLN:N	2.33	0.41
1:C:896:ASN:HA	1:C:918:TRP:O	2.21	0.41
1:K:391:HIS:ND1	1:K:412:GLU:OE1	2.44	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:378:LEU:HA	1:I:378:LEU:HD23	1.53	0.41
1:P:922:LEU:HD12	1:P:922:LEU:HA	1.87	0.41
1:K:363:HIS:N	1:K:363:HIS:CD2	2.81	0.41
1:C:308:LEU:HD23	1:C:308:LEU:HA	1.79	0.41
1:J:857:ARG:HG2	1:J:857:ARG:HH11	1.86	0.41
1:H:173:LEU:HA	1:H:173:LEU:HD23	1.69	0.41
1:E:231:PHE:CD1	1:E:231:PHE:N	2.88	0.41
1:A:670:LEU:HA	1:A:670:LEU:HD23	1.67	0.41
1:A:424:ASN:OD1	1:D:279:ILE:HD11	2.21	0.41
1:D:1004:SER:HB2	1:D:1006:GLU:OE2	2.19	0.41
1:E:896:ASN:HA	1:E:918:TRP:O	2.21	0.41
1:J:740:LEU:CD1	1:J:741:THR:N	2.80	0.41
1:G:436:MET:HE1	1:G:467:ASN:HB2	2.03	0.41
1:I:740:LEU:CD1	1:I:741:THR:N	2.80	0.41
1:P:745:MET:HE3	1:P:745:MET:N	2.35	0.41
1:M:436:MET:HE1	1:M:467:ASN:HB2	2.02	0.41
1:N:18:ASN:OD1	1:N:19:PRO:HD2	2.20	0.41
1:I:323:ILE:N	1:I:323:ILE:CD1	2.82	0.41
1:G:257:THR:HA	1:G:270:GLY:O	2.20	0.41
1:H:361:PRO:HB2	1:H:576:ILE:HD12	2.03	0.41
1:I:361:PRO:HB2	1:I:576:ILE:HD12	2.03	0.41
1:G:361:PRO:HB2	1:G:576:ILE:HD12	2.03	0.41
1:L:763:GLY:HA3	1:L:822:LEU:HD22	2.01	0.41
1:N:62:TRP:C	1:N:63:PHE:CD1	2.93	0.41
1:B:822:LEU:C	1:B:822:LEU:HD12	2.37	0.41
1:P:655:MET:HE2	1:P:655:MET:C	2.41	0.41
1:M:24:LEU:HA	1:M:24:LEU:HD12	1.62	0.41
1:M:34:ALA:HB3	1:M:36:TRP:CE3	2.54	0.41
1:P:595:THR:CG2	1:P:596:PRO:HA	2.46	0.41
1:A:702:GLN:HA	1:A:703:PRO:HD2	1.84	0.41
1:E:78:LEU:CB	1:E:79:PRO:CD	2.99	0.41
1:B:234:ASP:OD1	1:B:236:SER:HB3	2.20	0.41
1:D:900:LEU:HB2	1:D:939:CYS:O	2.21	0.41
1:M:347:LYS:HA	1:M:348:PRO:HD3	1.77	0.41
1:I:597:ASN:ND2	1:I:599:ARG:H	2.17	0.41
1:F:184:LEU:HD23	1:F:184:LEU:HA	1.83	0.41
1:B:901:GLY:HA3	1:B:902:PRO:HA	1.86	0.41
1:L:502:MET:HA	1:L:537:GLU:O	2.20	0.41
1:A:778:THR:CG2	1:A:887:GLN:H	2.32	0.41
1:B:502:MET:HA	1:B:537:GLU:O	2.20	0.41
1:D:429:ASP:O	1:D:432:TRP:N	2.44	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:134:LEU:CD1	1:M:179:ALA:HA	2.51	0.41
1:C:645:ARG:NH2	1:C:650:GLU:CD	2.74	0.41
1:I:906:TYR:HB3	1:I:907:PRO:CD	2.50	0.41
1:B:835:LEU:HD12	1:B:835:LEU:HA	1.88	0.41
1:L:134:LEU:CD1	1:L:179:ALA:HA	2.51	0.41
1:E:134:LEU:CD1	1:E:179:ALA:HA	2.51	0.41
1:E:287:ASP:CG	1:H:425:ARG:HH22	2.23	0.41
1:J:69:VAL:HG12	1:J:70:PRO:N	2.35	0.41
1:B:368:ASP:O	1:B:369:GLU:C	2.58	0.41
1:D:896:ASN:HA	1:D:918:TRP:O	2.21	0.41
1:F:231:PHE:N	1:F:231:PHE:CD1	2.88	0.41
1:B:772:ASP:OD1	1:B:772:ASP:N	2.30	0.41
1:J:922:LEU:HA	1:J:922:LEU:HD12	1.87	0.41
1:O:857:ARG:HG2	1:O:857:ARG:HH11	1.86	0.41
1:F:728:VAL:HG22	1:F:728:VAL:H	1.62	0.41
1:I:231:PHE:CD1	1:I:231:PHE:N	2.88	0.41
1:E:308:LEU:HA	1:E:308:LEU:HD23	1.80	0.41
1:G:857:ARG:HH11	1:G:857:ARG:HG2	1.86	0.41
1:M:513:PRO:O	1:M:514:ALA:HB3	2.20	0.41
1:A:896:ASN:HA	1:A:918:TRP:O	2.21	0.41
1:C:436:MET:HE1	1:C:467:ASN:HD22	1.81	0.41
1:J:668:VAL:HG13	1:J:669:PRO:CD	2.38	0.41
1:I:46:ARG:HB3	1:I:47:PRO:CD	2.50	0.41
1:B:361:PRO:HB2	1:B:576:ILE:HD12	2.03	0.41
1:C:316:HIS:HA	1:C:323:ILE:HD12	1.99	0.41
1:O:361:PRO:HB2	1:O:576:ILE:HD12	2.03	0.41
1:N:251:ARG:CB	1:N:253:TYR:CE2	2.98	0.41
1:M:227:VAL:CG1	1:M:240:LEU:HD11	2.42	0.41
1:B:62:TRP:C	1:B:63:PHE:CD1	2.93	0.41
1:B:685:LEU:HA	1:B:686:PRO:HD3	1.70	0.41
1:G:655:MET:HE3	1:G:655:MET:HB2	1.89	0.41
1:I:822:LEU:HD12	1:I:823:LEU:H	1.80	0.41
1:H:696:LEU:CD1	1:H:697:THR:N	2.80	0.41
1:K:658:LEU:O	1:K:659:ASP:C	2.58	0.41
1:K:49:GLN:NE2	1:K:49:GLN:N	2.64	0.41
1:H:631:LEU:HD12	1:H:631:LEU:HA	1.80	0.41
1:M:78:LEU:CB	1:M:79:PRO:CD	2.99	0.41
1:M:900:LEU:HB2	1:M:939:CYS:O	2.21	0.41
1:I:900:LEU:HB2	1:I:939:CYS:O	2.20	0.41
1:H:234:ASP:OD1	1:H:236:SER:HB3	2.20	0.41
1:N:347:LYS:CB	1:N:348:PRO:HD2	2.43	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:502:MET:HA	1:F:537:GLU:O	2.20	0.41
1:F:178:ARG:CB	1:F:178:ARG:HH11	2.33	0.41
1:E:178:ARG:CB	1:E:178:ARG:HH11	2.33	0.41
1:O:502:MET:HA	1:O:537:GLU:O	2.20	0.41
1:G:502:MET:HA	1:G:537:GLU:O	2.20	0.41
1:A:730:LEU:HA	1:A:731:PRO:HD3	1.74	0.41
1:B:134:LEU:CD1	1:B:179:ALA:HA	2.51	0.41
1:N:85:VAL:HG12	1:N:86:VAL:N	2.34	0.41
1:J:807:VAL:HG13	1:J:808:GLU:N	2.34	0.41
1:D:134:LEU:CD1	1:D:179:ALA:HA	2.51	0.41
1:B:69:VAL:HG12	1:B:70:PRO:N	2.35	0.41
1:J:608:PHE:O	1:J:611:ARG:N	2.41	0.41
1:J:559:TYR:HA	1:J:560:PRO:HD2	1.73	0.41
1:L:570:TRP:HD1	1:L:571:VAL:HG22	1.84	0.41
1:P:612:THR:HA	1:P:613:PRO:HD3	1.68	0.41
1:N:93:HIS:HB3	1:N:95:TYR:HE1	1.84	0.41
1:E:373:VAL:O	1:E:374:GLN:C	2.57	0.41
1:L:147:ASN:HB2	1:L:165:SER:HB3	2.01	0.41
1:N:896:ASN:HA	1:N:918:TRP:O	2.21	0.41
1:B:513:PRO:O	1:B:514:ALA:HB3	2.20	0.41
1:N:647:SER:OG	1:N:672:VAL:N	2.35	0.41
1:E:513:PRO:O	1:E:514:ALA:HB3	2.20	0.41
1:G:772:ASP:OD1	1:G:772:ASP:N	2.30	0.41
1:O:51:LEU:HA	1:O:51:LEU:HD12	1.84	0.41
1:B:308:LEU:HA	1:B:308:LEU:HD23	1.79	0.41
1:B:231:PHE:CD1	1:B:231:PHE:N	2.88	0.41
1:D:670:LEU:HA	1:D:670:LEU:HD23	1.67	0.41
1:E:857:ARG:HG2	1:E:857:ARG:HH11	1.86	0.41
1:P:231:PHE:N	1:P:231:PHE:CD1	2.88	0.41
1:G:51:LEU:HA	1:G:51:LEU:HD12	1.85	0.41
1:F:875:ASP:OD2	1:F:875:ASP:N	2.47	0.41
1:G:436:MET:HE3	1:G:467:ASN:ND2	2.22	0.41
1:J:46:ARG:HB3	1:J:47:PRO:CD	2.50	0.41
1:P:323:ILE:CD1	1:P:323:ILE:N	2.82	0.41
1:O:257:THR:HA	1:O:270:GLY:O	2.20	0.41
1:E:102:ASN:ND2	1:E:201:ASP:CB	2.78	0.41
1:A:323:ILE:N	1:A:323:ILE:CD1	2.82	0.41
1:C:360:HIS:ND1	1:C:362:LEU:HB2	2.35	0.41
1:K:65:ALA:CB	1:K:66:PRO:CD	2.99	0.41
1:L:227:VAL:CG1	1:L:240:LEU:HD11	2.42	0.41
1:E:67:GLU:HG2	1:E:67:GLU:H	1.30	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:822:LEU:HD12	1:D:822:LEU:C	2.37	0.41
1:D:823:LEU:HD23	1:D:823:LEU:HA	1.73	0.41
1:J:282:ARG:NH1	1:K:419:GLY:HA2	2.36	0.41
1:G:673:ALA:O	1:G:676:GLY:N	2.47	0.41
1:M:31:PRO:HA	1:M:32:PRO:HD3	1.88	0.41
1:C:234:ASP:OD1	1:C:236:SER:HB3	2.20	0.41
1:K:344:LEU:N	1:K:347:LYS:O	2.36	0.41
1:H:579:ASP:OD1	1:H:583:ASN:N	2.43	0.41
1:N:502:MET:HA	1:N:537:GLU:O	2.20	0.41
1:F:256:VAL:O	1:F:271:THR:HA	2.20	0.41
1:C:178:ARG:HH11	1:C:178:ARG:CB	2.33	0.41
1:I:256:VAL:O	1:I:271:THR:HA	2.20	0.41
1:D:906:TYR:HB3	1:D:907:PRO:CD	2.50	0.41
1:K:429:ASP:OD2	1:K:431:ARG:NH1	2.54	0.41
1:O:429:ASP:OD1	1:O:431:ARG:N	2.51	0.41
1:H:134:LEU:CD1	1:H:179:ALA:HA	2.51	0.41
1:P:570:TRP:HD1	1:P:571:VAL:HG22	1.84	0.41
1:H:608:PHE:O	1:H:611:ARG:N	2.41	0.41
1:N:445:GLN:HE21	1:N:445:GLN:HB3	1.54	0.41
1:J:147:ASN:HB2	1:J:165:SER:HB3	2.02	0.41
1:I:147:ASN:HB2	1:I:165:SER:HB3	2.02	0.41
1:D:463:GLY:O	1:D:486:TYR:OH	2.32	0.41
1:E:407:LEU:HA	1:E:407:LEU:HD23	1.89	0.41
1:I:368:ASP:O	1:I:369:GLU:C	2.58	0.41
1:L:373:VAL:O	1:L:374:GLN:C	2.57	0.41
1:G:231:PHE:CD1	1:G:231:PHE:N	2.88	0.41
1:B:694:LEU:HD12	1:B:694:LEU:HA	1.69	0.41
1:O:772:ASP:OD1	1:O:772:ASP:N	2.30	0.41
1:H:231:PHE:N	1:H:231:PHE:CD1	2.88	0.41
1:P:202:MET:HB3	1:P:202:MET:HE3	1.84	0.41
1:A:857:ARG:HG2	1:A:857:ARG:HH11	1.86	0.41
1:B:745:MET:CA	1:B:745:MET:CE	2.99	0.41
1:H:745:MET:CA	1:H:745:MET:CE	2.99	0.41
1:O:745:MET:CE	1:O:745:MET:CA	2.99	0.41
1:D:436:MET:HE1	1:D:467:ASN:HD22	1.82	0.41
1:D:745:MET:CE	1:D:745:MET:CA	2.99	0.41
1:G:745:MET:CE	1:G:745:MET:CA	2.99	0.41
1:M:668:VAL:HG13	1:M:669:PRO:CD	2.38	0.41
1:J:18:ASN:OD1	1:J:19:PRO:HD2	2.20	0.41
1:P:257:THR:OG1	1:P:316:HIS:HE1	2.03	0.41
1:N:257:THR:HA	1:N:270:GLY:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:323:ILE:N	1:H:323:ILE:CD1	2.82	0.41
1:J:7:LEU:O	1:J:8:ALA:C	2.55	0.41
1:E:323:ILE:N	1:E:323:ILE:CD1	2.82	0.41
1:C:257:THR:HA	1:C:270:GLY:O	2.20	0.41
1:J:257:THR:HA	1:J:270:GLY:O	2.20	0.41
1:J:361:PRO:HB2	1:J:576:ILE:HD12	2.03	0.41
1:D:362:LEU:HD23	1:D:362:LEU:HA	1.88	0.41
1:N:361:PRO:HB2	1:N:576:ILE:HD12	2.03	0.41
1:N:360:HIS:ND1	1:N:362:LEU:HB2	2.35	0.41
1:F:361:PRO:HB2	1:F:576:ILE:HD12	2.03	0.41
1:F:251:ARG:CB	1:F:253:TYR:CE2	2.98	0.41
1:P:255:ARG:CG	1:P:255:ARG:NH1	2.79	0.41
1:B:763:GLY:HA3	1:B:822:LEU:HD22	2.01	0.41
1:E:823:LEU:HD23	1:E:823:LEU:HA	1.73	0.41
1:J:655:MET:HG3	1:J:655:MET:O	2.21	0.41
1:N:655:MET:HE2	1:N:655:MET:C	2.41	0.41
1:D:682:LEU:HD23	1:D:682:LEU:HA	1.67	0.41
1:I:823:LEU:HA	1:I:823:LEU:HD23	1.73	0.41
1:L:655:MET:C	1:L:655:MET:HE2	2.42	0.41
1:L:655:MET:O	1:L:655:MET:HG3	2.21	0.41
1:C:858:ILE:HG12	1:C:864:MET:HG3	2.03	0.41
1:K:34:ALA:HB3	1:K:36:TRP:CE3	2.54	0.41
1:M:260:LEU:C	1:M:267:VAL:HG23	2.40	0.41
1:L:702:GLN:HA	1:L:703:PRO:HD2	1.84	0.41
1:C:658:LEU:O	1:C:659:ASP:C	2.58	0.41
1:E:78:LEU:CB	1:E:79:PRO:HD2	2.44	0.41
1:N:673:ALA:O	1:N:676:GLY:N	2.47	0.41
1:E:419:GLY:HA2	1:H:282:ARG:HH11	1.86	0.41
1:A:78:LEU:CB	1:A:79:PRO:CD	2.99	0.41
1:C:421:VAL:O	1:C:425:ARG:NH1	2.46	0.41
1:M:377:LEU:HA	1:M:377:LEU:HD23	1.90	0.41
1:E:234:ASP:OD1	1:E:236:SER:HB3	2.20	0.41
1:J:234:ASP:OD1	1:J:236:SER:HB3	2.20	0.41
1:N:800:ARG:CB	1:N:800:ARG:CZ	2.98	0.41
1:I:234:ASP:OD1	1:I:236:SER:HB3	2.20	0.41
1:G:234:ASP:OD1	1:G:236:SER:N	2.54	0.41
1:A:597:ASN:ND2	1:A:599:ARG:H	2.17	0.41
1:P:184:LEU:HD23	1:P:184:LEU:HA	1.84	0.41
1:A:178:ARG:CB	1:A:178:ARG:HH11	2.33	0.41
1:I:265:THR:HG22	1:I:266:GLN:N	2.36	0.41
1:D:256:VAL:O	1:D:271:THR:HA	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:906:TYR:HB3	1:J:907:PRO:CD	2.50	0.41
1:G:429:ASP:OD1	1:G:431:ARG:N	2.51	0.41
1:C:256:VAL:O	1:C:271:THR:HA	2.20	0.41
1:L:645:ARG:NH2	1:L:650:GLU:CD	2.74	0.41
1:O:778:THR:CG2	1:O:887:GLN:H	2.32	0.41
1:P:403:ASP:CG	1:P:451:PRO:HD2	2.41	0.41
1:H:403:ASP:CG	1:H:451:PRO:HD2	2.42	0.41
1:L:429:ASP:OD1	1:L:431:ARG:N	2.51	0.41
1:K:403:ASP:CG	1:K:451:PRO:HD2	2.41	0.41
1:J:1018:LEU:HD23	1:J:1018:LEU:HA	1.51	0.41
1:K:1018:LEU:HD22	1:K:1019:VAL:N	2.35	0.41
1:J:141:ILE:HG12	1:J:142:ILE:H	1.86	0.41
1:C:70:PRO:O	1:C:73:TRP:N	2.45	0.41
1:M:69:VAL:HG12	1:M:70:PRO:N	2.35	0.41
1:K:141:ILE:HG12	1:K:142:ILE:H	1.86	0.41
1:F:608:PHE:O	1:F:611:ARG:N	2.41	0.41
1:N:570:TRP:HD1	1:N:571:VAL:HG22	1.84	0.41
1:G:559:TYR:HA	1:G:560:PRO:HD2	1.74	0.41
1:H:93:HIS:HB3	1:H:95:TYR:HE1	1.84	0.41
1:J:445:GLN:HB3	1:J:445:GLN:HE21	1.54	0.41
1:N:829:THR:C	1:N:830:LEU:HD12	2.40	0.41
1:F:407:LEU:HA	1:F:407:LEU:HD23	1.89	0.41
1:B:147:ASN:HA	1:B:148:SER:HA	1.54	0.41
1:A:479:ASP:HA	1:A:480:PRO:HD2	1.61	0.41
1:A:111:PRO:HA	1:A:112:PRO:HA	1.58	0.41
1:L:231:PHE:N	1:L:231:PHE:CD1	2.88	0.41
1:C:857:ARG:HH11	1:C:857:ARG:HG2	1.86	0.41
1:L:546:LEU:HA	1:L:546:LEU:HD12	1.84	0.41
1:C:231:PHE:N	1:C:231:PHE:CD1	2.88	0.41
1:K:857:ARG:HG2	1:K:857:ARG:HH11	1.86	0.41
1:C:173:LEU:HD23	1:C:173:LEU:HA	1.69	0.41
1:O:471:LEU:HA	1:O:471:LEU:HD23	1.85	0.41
1:F:817:GLN:HE21	1:F:817:GLN:HB3	1.63	0.41
1:J:202:MET:HE3	1:J:202:MET:HB3	1.82	0.41
1:G:264:GLU:HA	1:G:264:GLU:OE2	2.17	0.41
1:G:173:LEU:HD23	1:G:173:LEU:HA	1.69	0.41
1:E:482:ARG:HD2	1:E:482:ARG:HH11	1.71	0.41
1:N:363:HIS:CD2	1:N:363:HIS:N	2.81	0.41
1:M:857:ARG:HG2	1:M:857:ARG:HH11	1.86	0.41
1:F:513:PRO:O	1:F:514:ALA:HB3	2.20	0.41
1:L:896:ASN:HA	1:L:918:TRP:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:647:SER:OG	1:I:672:VAL:N	2.35	0.41
1:I:745:MET:CA	1:I:745:MET:CE	2.99	0.41
1:L:745:MET:CA	1:L:745:MET:CE	2.99	0.41
1:L:102:ASN:ND2	1:L:201:ASP:CB	2.78	0.41
1:N:257:THR:OG1	1:N:316:HIS:HE1	2.03	0.41
1:M:257:THR:HA	1:M:270:GLY:O	2.20	0.41
1:H:668:VAL:CG1	1:H:669:PRO:CD	2.99	0.41
1:P:46:ARG:HB3	1:P:47:PRO:CD	2.50	0.41
1:E:583:ASN:HA	1:E:584:PRO:HD3	1.79	0.41
1:D:7:LEU:O	1:D:8:ALA:C	2.55	0.41
1:K:66:PRO:CB	1:K:187:MET:CE	2.99	0.41
1:K:230:ARG:O	1:K:238:ALA:HA	2.21	0.41
1:L:822:LEU:C	1:L:822:LEU:HD12	2.37	0.41
1:A:395:HIS:HA	1:A:396:PRO:HD3	1.48	0.41
1:E:395:HIS:HA	1:E:396:PRO:HD3	1.48	0.41
1:F:260:LEU:C	1:F:267:VAL:HG23	2.40	0.41
1:D:696:LEU:CD1	1:D:697:THR:N	2.80	0.41
1:P:701:VAL:CG1	1:P:702:GLN:N	2.81	0.41
1:D:858:ILE:HG12	1:D:864:MET:HG3	2.03	0.41
1:E:858:ILE:HG12	1:E:864:MET:HG3	2.03	0.41
1:O:78:LEU:CB	1:O:79:PRO:CD	2.99	0.41
1:P:658:LEU:HD12	1:P:658:LEU:HA	1.83	0.41
1:C:900:LEU:HB2	1:C:939:CYS:O	2.20	0.41
1:N:31:PRO:HA	1:N:32:PRO:HD3	1.88	0.41
1:D:234:ASP:OD1	1:D:236:SER:HB3	2.20	0.41
1:K:234:ASP:OD1	1:K:236:SER:HB3	2.20	0.41
1:G:234:ASP:OD1	1:G:236:SER:HB3	2.20	0.41
1:O:234:ASP:OD1	1:O:236:SER:N	2.54	0.41
1:F:901:GLY:HA3	1:F:902:PRO:HA	1.86	0.41
1:H:184:LEU:HD23	1:H:184:LEU:HA	1.84	0.41
1:D:265:THR:HG22	1:D:266:GLN:N	2.36	0.41
1:L:265:THR:HG22	1:L:266:GLN:N	2.36	0.41
1:A:469:ASP:HB3	1:D:473:ARG:HD2	2.02	0.41
1:F:645:ARG:NH2	1:F:650:GLU:OE2	2.48	0.41
1:E:429:ASP:OD2	1:E:431:ARG:NH1	2.54	0.41
1:B:429:ASP:O	1:B:432:TRP:N	2.44	0.41
1:B:429:ASP:OD2	1:B:431:ARG:NH1	2.54	0.41
1:N:429:ASP:OD2	1:N:431:ARG:NH1	2.54	0.41
1:J:403:ASP:CG	1:J:451:PRO:HD2	2.41	0.41
1:B:403:ASP:CG	1:B:451:PRO:HD2	2.41	0.41
1:K:69:VAL:HG12	1:K:70:PRO:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:70:PRO:O	1:O:73:TRP:N	2.45	0.41
1:C:69:VAL:HG12	1:C:70:PRO:N	2.35	0.41
1:F:829:THR:C	1:F:830:LEU:HD12	2.40	0.41
1:M:407:LEU:HA	1:M:407:LEU:HD23	1.89	0.41
1:M:373:VAL:O	1:M:374:GLN:C	2.57	0.41
1:L:105:TYR:CE2	1:L:199:ASP:HB2	2.56	0.41
1:P:513:PRO:O	1:P:514:ALA:HB3	2.20	0.41
1:A:772:ASP:OD1	1:A:772:ASP:N	2.30	0.41
1:F:363:HIS:N	1:F:363:HIS:CD2	2.81	0.41
1:A:264:GLU:OE2	1:A:264:GLU:HA	2.17	0.41
1:J:694:LEU:HD12	1:J:694:LEU:HA	1.69	0.41
1:H:51:LEU:HA	1:H:51:LEU:HD12	1.84	0.41
1:P:745:MET:CE	1:P:745:MET:CA	2.99	0.40
1:A:745:MET:CA	1:A:745:MET:CE	2.99	0.40
1:C:744:GLU:C	1:C:745:MET:HE3	2.41	0.40
1:N:316:HIS:HA	1:N:323:ILE:HD12	1.99	0.40
1:I:18:ASN:OD1	1:I:19:PRO:HD2	2.20	0.40
1:H:668:VAL:HG13	1:H:669:PRO:CD	2.38	0.40
1:P:360:HIS:ND1	1:P:362:LEU:HB2	2.35	0.40
1:M:230:ARG:O	1:M:238:ALA:HA	2.22	0.40
1:D:230:ARG:O	1:D:238:ALA:HA	2.22	0.40
1:J:66:PRO:CB	1:J:187:MET:CE	2.99	0.40
1:O:655:MET:O	1:O:655:MET:HG3	2.21	0.40
1:F:822:LEU:HD12	1:F:823:LEU:H	1.80	0.40
1:J:395:HIS:CE1	1:J:397:LEU:HB3	2.57	0.40
1:G:655:MET:O	1:G:655:MET:HG3	2.21	0.40
1:D:395:HIS:CE1	1:D:397:LEU:HB3	2.57	0.40
1:M:858:ILE:HG12	1:M:864:MET:HG3	2.03	0.40
1:O:701:VAL:HG12	1:O:702:GLN:H	1.83	0.40
1:G:701:VAL:HG12	1:G:702:GLN:H	1.83	0.40
1:K:49:GLN:CD	1:K:49:GLN:H	2.20	0.40
1:P:856:TYR:HD2	1:P:864:MET:CE	2.25	0.40
1:E:282:ARG:HD3	1:H:418:HIS:O	2.21	0.40
1:A:282:ARG:HH11	1:D:419:GLY:CA	2.34	0.40
1:C:900:LEU:HA	1:C:900:LEU:HD23	1.75	0.40
1:J:900:LEU:HB2	1:J:939:CYS:O	2.21	0.40
1:E:6:SER:OG	1:E:9:VAL:HB	2.22	0.40
1:I:599:ARG:HB2	1:I:600:GLN:H	1.40	0.40
1:K:178:ARG:HH11	1:K:178:ARG:CB	2.33	0.40
1:A:265:THR:HG22	1:A:266:GLN:N	2.36	0.40
1:C:429:ASP:OD2	1:C:431:ARG:NH1	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:429:ASP:OD2	1:L:431:ARG:NH1	2.54	0.40
1:G:403:ASP:CG	1:G:451:PRO:HD2	2.41	0.40
1:B:134:LEU:HD21	1:B:177:LEU:HB2	2.04	0.40
1:I:403:ASP:CG	1:I:451:PRO:HD2	2.41	0.40
1:I:134:LEU:HD21	1:I:177:LEU:HB2	2.03	0.40
1:O:69:VAL:HG12	1:O:70:PRO:N	2.35	0.40
1:D:445:GLN:HB3	1:D:445:GLN:HE21	1.54	0.40
1:L:679:LEU:HD23	1:L:679:LEU:HA	1.26	0.40
1:C:694:LEU:O	1:C:722:LEU:N	2.51	0.40
1:L:147:ASN:HA	1:L:148:SER:HA	1.54	0.40
1:N:513:PRO:O	1:N:514:ALA:HB3	2.20	0.40
1:O:878:HIS:HA	1:O:879:PRO:HD3	1.66	0.40
1:G:531:ARG:O	1:G:561:ARG:NH1	2.46	0.40
1:N:279:ILE:HD11	1:O:424:ASN:OD1	2.21	0.40
1:O:242:ALA:O	1:O:290:THR:HA	2.22	0.40
1:G:105:TYR:CE2	1:G:199:ASP:HB2	2.57	0.40
1:P:857:ARG:HH11	1:P:857:ARG:HG2	1.86	0.40
1:K:482:ARG:HH11	1:K:482:ARG:HD2	1.71	0.40
1:D:308:LEU:HD23	1:D:308:LEU:HA	1.80	0.40
1:G:242:ALA:O	1:G:290:THR:HA	2.22	0.40
1:F:745:MET:CE	1:F:745:MET:CA	2.99	0.40
1:P:749:ILE:CD1	1:P:749:ILE:N	2.78	0.40
1:I:436:MET:HE1	1:I:467:ASN:HB2	2.03	0.40
1:H:436:MET:HE1	1:H:467:ASN:HB2	2.02	0.40
1:H:46:ARG:HB3	1:H:47:PRO:CD	2.50	0.40
1:F:257:THR:OG1	1:F:316:HIS:HE1	2.03	0.40
1:D:668:VAL:CG1	1:D:669:PRO:CD	2.99	0.40
1:M:323:ILE:N	1:M:323:ILE:CD1	2.82	0.40
1:L:360:HIS:ND1	1:L:362:LEU:HB2	2.35	0.40
1:O:227:VAL:CG1	1:O:240:LEU:HD11	2.42	0.40
1:L:230:ARG:O	1:L:238:ALA:HA	2.21	0.40
1:F:858:ILE:HG12	1:F:864:MET:HG3	2.03	0.40
1:D:65:ALA:CB	1:D:66:PRO:HD2	2.42	0.40
1:I:655:MET:HG3	1:I:655:MET:O	2.21	0.40
1:N:822:LEU:HD12	1:N:823:LEU:H	1.80	0.40
1:G:395:HIS:CE1	1:G:397:LEU:HB3	2.56	0.40
1:L:395:HIS:CE1	1:L:397:LEU:HB3	2.56	0.40
1:E:260:LEU:C	1:E:267:VAL:HG23	2.40	0.40
1:P:631:LEU:HA	1:P:631:LEU:HD12	1.81	0.40
1:E:900:LEU:HB2	1:E:939:CYS:O	2.21	0.40
1:K:246:MET:HB3	1:K:274:PHE:CZ	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:900:LEU:HB2	1:F:939:CYS:O	2.21	0.40
1:L:234:ASP:OD1	1:L:236:SER:N	2.54	0.40
1:F:31:PRO:HA	1:F:32:PRO:HD3	1.88	0.40
1:J:246:MET:HB3	1:J:274:PHE:CZ	2.57	0.40
1:C:377:LEU:CD2	1:C:708:TRP:CA	2.99	0.40
1:A:347:LYS:HA	1:A:348:PRO:HD3	1.77	0.40
1:F:6:SER:OG	1:F:9:VAL:HB	2.22	0.40
1:J:134:LEU:CD1	1:J:179:ALA:HA	2.51	0.40
1:N:265:THR:HG22	1:N:266:GLN:N	2.36	0.40
1:D:429:ASP:OD2	1:D:431:ARG:NH1	2.54	0.40
1:M:272:ALA:HA	1:M:273:PRO:HD3	1.76	0.40
1:P:429:ASP:OD2	1:P:431:ARG:NH1	2.54	0.40
1:A:645:ARG:NH2	1:A:650:GLU:CD	2.74	0.40
1:O:134:LEU:HD21	1:O:177:LEU:HB2	2.04	0.40
1:A:134:LEU:HD21	1:A:177:LEU:HB2	2.03	0.40
1:O:906:TYR:HB3	1:O:907:PRO:CD	2.50	0.40
1:L:134:LEU:HD21	1:L:177:LEU:HB2	2.04	0.40
1:D:403:ASP:CG	1:D:451:PRO:HD2	2.42	0.40
1:C:403:ASP:CG	1:C:451:PRO:HD2	2.41	0.40
1:P:134:LEU:CD1	1:P:179:ALA:HA	2.51	0.40
1:H:70:PRO:O	1:H:73:TRP:N	2.45	0.40
1:I:134:LEU:CD1	1:I:179:ALA:HA	2.51	0.40
1:O:69:VAL:HA	1:O:70:PRO:HD2	1.77	0.40
1:D:141:ILE:HG12	1:D:142:ILE:H	1.86	0.40
1:K:570:TRP:HD1	1:K:571:VAL:HG22	1.84	0.40
1:D:147:ASN:HB2	1:D:165:SER:HB3	2.02	0.40
1:I:373:VAL:O	1:I:374:GLN:C	2.57	0.40
1:N:407:LEU:HA	1:N:407:LEU:HD23	1.89	0.40
1:C:373:VAL:O	1:C:374:GLN:C	2.57	0.40
1:O:368:ASP:O	1:O:369:GLU:C	2.58	0.40
1:O:513:PRO:O	1:O:514:ALA:HB3	2.20	0.40
1:O:531:ARG:O	1:O:561:ARG:NH1	2.46	0.40
1:K:896:ASN:HA	1:K:918:TRP:O	2.21	0.40
1:N:857:ARG:HG2	1:N:857:ARG:HH11	1.86	0.40
1:H:726:LEU:HA	1:H:726:LEU:HD23	1.65	0.40
1:A:476:LYS:HA	1:A:476:LYS:HD2	1.81	0.40
1:J:896:ASN:HA	1:J:918:TRP:O	2.21	0.40
1:F:896:ASN:HA	1:F:918:TRP:O	2.21	0.40
1:P:105:TYR:CE2	1:P:199:ASP:HB2	2.57	0.40
1:H:878:HIS:HA	1:H:879:PRO:HD3	1.66	0.40
1:J:479:ASP:HA	1:J:480:PRO:HD2	1.61	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:745:MET:CE	1:N:745:MET:CA	2.99	0.40
1:M:745:MET:CA	1:M:745:MET:CE	2.99	0.40
1:M:46:ARG:HB3	1:M:47:PRO:CD	2.50	0.40
1:A:316:HIS:HA	1:A:323:ILE:HD12	1.99	0.40
1:P:583:ASN:HA	1:P:584:PRO:HD3	1.79	0.40
1:M:361:PRO:HB2	1:M:576:ILE:HD12	2.03	0.40
1:A:361:PRO:HB2	1:A:576:ILE:HD12	2.03	0.40
1:D:6:SER:O	1:D:7:LEU:C	2.60	0.40
1:D:6:SER:OG	1:D:9:VAL:HB	2.22	0.40
1:F:230:ARG:O	1:F:238:ALA:HA	2.21	0.40
1:F:66:PRO:CB	1:F:187:MET:CE	2.99	0.40
1:I:67:GLU:H	1:I:67:GLU:HG2	1.31	0.40
1:O:655:MET:HE2	1:O:655:MET:C	2.41	0.40
1:P:655:MET:HB2	1:P:655:MET:HE3	1.94	0.40
1:B:682:LEU:HA	1:B:682:LEU:HD23	1.67	0.40
1:M:655:MET:O	1:M:655:MET:HG3	2.21	0.40
1:N:395:HIS:CE1	1:N:397:LEU:HB3	2.56	0.40
1:I:395:HIS:CE1	1:I:397:LEU:HB3	2.56	0.40
1:B:260:LEU:C	1:B:267:VAL:HG23	2.40	0.40
1:D:37:ARG:N	1:D:37:ARG:HD3	2.36	0.40
1:I:702:GLN:HA	1:I:703:PRO:HD2	1.84	0.40
1:N:858:ILE:HG12	1:N:864:MET:HG3	2.03	0.40
1:I:282:ARG:HH11	1:L:419:GLY:CA	2.34	0.40
1:A:78:LEU:CB	1:A:79:PRO:HD2	2.44	0.40
1:N:246:MET:HB3	1:N:274:PHE:CZ	2.57	0.40
1:B:246:MET:HB3	1:B:274:PHE:CZ	2.57	0.40
1:P:6:SER:OG	1:P:9:VAL:HB	2.22	0.40
1:A:246:MET:HB3	1:A:274:PHE:CZ	2.57	0.40
1:A:234:ASP:OD1	1:A:236:SER:HB3	2.20	0.40
1:F:234:ASP:OD1	1:F:236:SER:HB3	2.20	0.40
1:L:272:ALA:CB	1:L:273:PRO:CD	2.99	0.40
1:N:178:ARG:HH11	1:N:178:ARG:CB	2.33	0.40
1:G:265:THR:HG22	1:G:266:GLN:N	2.36	0.40
1:F:645:ARG:NH2	1:F:650:GLU:CD	2.74	0.40
1:C:134:LEU:CD1	1:C:179:ALA:HA	2.51	0.40
1:B:645:ARG:NH2	1:B:650:GLU:CD	2.74	0.40
1:G:134:LEU:HD21	1:G:177:LEU:HB2	2.04	0.40
1:G:134:LEU:CD1	1:G:179:ALA:HA	2.51	0.40
1:P:778:THR:HB	1:P:887:GLN:CB	2.48	0.40
1:G:906:TYR:HB3	1:G:907:PRO:CD	2.50	0.40
1:F:48:SER:OG	1:F:50:GLN:HG2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:141:ILE:HG12	1:C:142:ILE:H	1.86	0.40
1:J:73:TRP:O	1:J:183:ARG:NH1	2.48	0.40
1:F:69:VAL:HA	1:F:70:PRO:HD2	1.77	0.40
1:B:141:ILE:HG12	1:B:142:ILE:H	1.86	0.40
1:E:147:ASN:HB2	1:E:165:SER:HB3	2.02	0.40
1:O:390:SER:HA	1:O:391:HIS:HA	1.91	0.40
1:N:679:LEU:HD23	1:N:679:LEU:HA	1.26	0.40
1:F:391:HIS:ND1	1:F:412:GLU:OE1	2.44	0.40
1:A:726:LEU:HA	1:A:726:LEU:HD23	1.65	0.40
1:J:231:PHE:N	1:J:231:PHE:CD1	2.88	0.40
1:C:367:MET:HE2	1:C:367:MET:HB3	1.83	0.40
1:D:105:TYR:CE2	1:D:199:ASP:HB2	2.57	0.40
1:K:740:LEU:CD1	1:K:741:THR:N	2.80	0.40
1:A:745:MET:N	1:A:745:MET:HE3	2.36	0.40
1:N:102:ASN:ND2	1:N:201:ASP:CB	2.78	0.40
1:K:360:HIS:HA	1:K:361:PRO:HD3	1.86	0.40
1:K:92:MET:HE3	1:K:362:LEU:O	2.21	0.40
1:E:361:PRO:HB2	1:E:576:ILE:HD12	2.03	0.40
1:A:227:VAL:CG1	1:A:240:LEU:HD11	2.42	0.40
1:J:240:LEU:HD12	1:J:240:LEU:C	2.36	0.40
1:K:254:LEU:O	1:K:255:ARG:NH1	2.54	0.40
1:M:763:GLY:HA3	1:M:822:LEU:HD22	2.01	0.40
1:I:685:LEU:HA	1:I:686:PRO:HD3	1.70	0.40
1:H:395:HIS:CE1	1:H:397:LEU:HB3	2.56	0.40
1:A:395:HIS:CE1	1:A:397:LEU:HB3	2.57	0.40
1:O:395:HIS:CE1	1:O:397:LEU:HB3	2.56	0.40
1:I:37:ARG:HD3	1:I:37:ARG:N	2.36	0.40
1:A:234:ASP:OD1	1:A:236:SER:N	2.54	0.40
1:M:6:SER:OG	1:M:9:VAL:HB	2.22	0.40
1:N:901:GLY:HA3	1:N:902:PRO:HA	1.86	0.40
1:N:6:SER:OG	1:N:9:VAL:HB	2.22	0.40
1:L:421:VAL:O	1:L:425:ARG:NH1	2.46	0.40
1:K:645:ARG:NH2	1:K:650:GLU:CD	2.74	0.40
1:N:778:THR:HG22	1:N:778:THR:O	2.20	0.40
1:M:282:ARG:HD3	1:P:420:MET:O	2.21	0.40
1:K:134:LEU:CD1	1:K:179:ALA:HA	2.51	0.40
1:F:134:LEU:CD1	1:F:179:ALA:HA	2.51	0.40
1:H:421:VAL:O	1:H:425:ARG:NH1	2.46	0.40
1:F:559:TYR:HA	1:F:560:PRO:HD2	1.74	0.40
1:I:390:SER:HA	1:I:391:HIS:HA	1.91	0.40
1:O:722:LEU:HA	1:O:722:LEU:HD23	1.75	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:242:ALA:O	1:B:290:THR:HA	2.22	0.40
1:F:242:ALA:O	1:F:290:THR:HA	2.22	0.40
1:C:513:PRO:O	1:C:514:ALA:HB3	2.20	0.40
1:J:242:ALA:O	1:J:290:THR:HA	2.22	0.40
1:O:896:ASN:HA	1:O:918:TRP:O	2.21	0.40
1:A:308:LEU:HA	1:A:308:LEU:HD23	1.79	0.40
1:E:721:ARG:HE	1:E:721:ARG:HB3	1.69	0.40
1:L:817:GLN:HE21	1:L:817:GLN:HB3	1.63	0.40
1:L:728:VAL:HG22	1:L:728:VAL:H	1.62	0.40
1:K:231:PHE:CD1	1:K:231:PHE:N	2.88	0.40
1:A:482:ARG:HD2	1:A:482:ARG:HH11	1.71	0.40
1:A:43:ARG:HH11	1:A:43:ARG:CG	2.10	0.40
1:K:745:MET:CE	1:K:745:MET:CA	2.99	0.40
1:J:102:ASN:ND2	1:J:201:ASP:CB	2.78	0.40
1:K:651:LEU:HA	1:K:651:LEU:HD13	1.51	0.40
1:H:57:GLU:HG2	1:H:83:THR:HG21	1.93	0.40
1:C:668:VAL:CG1	1:C:669:PRO:CD	2.99	0.40
1:E:257:THR:HA	1:E:270:GLY:O	2.20	0.40
1:A:253:TYR:O	1:A:318:ALA:N	2.55	0.40
1:N:230:ARG:O	1:N:238:ALA:HA	2.21	0.40
1:I:66:PRO:CB	1:I:187:MET:CE	2.99	0.40
1:L:66:PRO:CB	1:L:187:MET:CE	2.99	0.40
1:O:66:PRO:CB	1:O:187:MET:CE	2.99	0.40
1:K:822:LEU:HD12	1:K:822:LEU:C	2.37	0.40
1:K:822:LEU:HD12	1:K:823:LEU:H	1.80	0.40
1:I:254:LEU:O	1:I:255:ARG:NH1	2.54	0.40
1:E:230:ARG:O	1:E:238:ALA:HA	2.21	0.40
1:C:856:TYR:HD2	1:C:864:MET:CE	2.25	0.40
1:A:685:LEU:HA	1:A:686:PRO:HD3	1.70	0.40
1:L:37:ARG:N	1:L:37:ARG:HD3	2.36	0.40
1:J:377:LEU:HD23	1:J:377:LEU:HA	1.90	0.40
1:E:377:LEU:CD2	1:E:708:TRP:CA	2.99	0.40
1:G:246:MET:HB3	1:G:274:PHE:CZ	2.57	0.40
1:K:900:LEU:HB2	1:K:939:CYS:O	2.21	0.40
1:M:246:MET:HB3	1:M:274:PHE:CZ	2.57	0.40
1:E:347:LYS:HA	1:E:348:PRO:HD3	1.77	0.40
1:M:178:ARG:CB	1:M:178:ARG:HH11	2.33	0.40
1:F:272:ALA:HA	1:F:273:PRO:HD3	1.76	0.40
1:F:429:ASP:O	1:F:432:TRP:N	2.44	0.40
1:J:429:ASP:O	1:J:432:TRP:N	2.44	0.40
1:J:429:ASP:OD2	1:J:431:ARG:NH1	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:645:ARG:NH2	1:H:650:GLU:CD	2.74	0.40
1:A:403:ASP:CG	1:A:451:PRO:HD2	2.41	0.40
1:L:906:TYR:HB3	1:L:907:PRO:CD	2.50	0.40
1:M:48:SER:OG	1:M:50:GLN:HG2	2.22	0.40
1:M:570:TRP:HD1	1:M:571:VAL:HG22	1.84	0.40
1:H:570:TRP:HD1	1:H:571:VAL:HG22	1.84	0.40
1:F:694:LEU:O	1:F:722:LEU:N	2.51	0.40
1:P:368:ASP:O	1:P:369:GLU:C	2.58	0.40
1:G:368:ASP:O	1:G:369:GLU:C	2.58	0.40
1:B:105:TYR:CE2	1:B:199:ASP:HB2	2.57	0.40
1:J:722:LEU:HA	1:J:722:LEU:HD23	1.75	0.40
1:J:817:GLN:HE21	1:J:817:GLN:HB3	1.63	0.40
1:A:231:PHE:N	1:A:231:PHE:CD1	2.88	0.40
1:I:202:MET:HE3	1:I:202:MET:HB3	1.85	0.40
1:N:231:PHE:N	1:N:231:PHE:CD1	2.88	0.40
1:M:721:ARG:HB3	1:M:721:ARG:HE	1.69	0.40
1:N:817:GLN:HB3	1:N:817:GLN:HE21	1.63	0.40
1:B:726:LEU:HD23	1:B:726:LEU:HA	1.65	0.40
1:E:221:GLN:HG2	1:E:221:GLN:H	1.70	0.40
1:M:147:ASN:HB2	1:M:165:SER:HB3	2.02	0.40
1:M:242:ALA:O	1:M:290:THR:HA	2.22	0.40
1:B:391:HIS:ND1	1:B:412:GLU:OE1	2.44	0.40

All (8) 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:A:580:GLU:O	1:B:578:TYR:CG[2_555]	1.57	0.63
1:A:580:GLU:O	1:B:578:TYR:CB[2_555]	1.68	0.52
1:G:740:LEU:O	1:L:739:HIS:CD2[1_455]	1.94	0.26
1:A:580:GLU:O	1:B:578:TYR:CD1[2_555]	1.97	0.23
1:B:740:LEU:O	1:P:739:HIS:CD2[1_354]	2.09	0.11
1:F:80:GLU:OE2	5:I:2262:HOH:O[2_646]	2.10	0.10
1:B:739:HIS:NE2	1:P:738:PRO:O[1_354]	2.16	0.04
1:C:739:HIS:ND1	1:I:734:SER:O[1_655]	2.17	0.03

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	1018/1023 (100%)	956 (94%)	53 (5%)	9 (1%)	21	49
1	B	1018/1023 (100%)	956 (94%)	53 (5%)	9 (1%)	21	49
1	C	1018/1023 (100%)	956 (94%)	53 (5%)	9 (1%)	21	49
1	D	1018/1023 (100%)	956 (94%)	53 (5%)	9 (1%)	21	49
1	E	1018/1023 (100%)	956 (94%)	53 (5%)	9 (1%)	21	49
1	F	1018/1023 (100%)	956 (94%)	53 (5%)	9 (1%)	21	49
1	G	1018/1023 (100%)	956 (94%)	53 (5%)	9 (1%)	21	49
1	H	1018/1023 (100%)	956 (94%)	53 (5%)	9 (1%)	21	49
1	I	1018/1023 (100%)	956 (94%)	53 (5%)	9 (1%)	21	49
1	J	1018/1023 (100%)	956 (94%)	53 (5%)	9 (1%)	21	49
1	K	1018/1023 (100%)	956 (94%)	53 (5%)	9 (1%)	21	49
1	L	1018/1023 (100%)	956 (94%)	53 (5%)	9 (1%)	21	49
1	M	1018/1023 (100%)	956 (94%)	53 (5%)	9 (1%)	21	49
1	N	1018/1023 (100%)	956 (94%)	53 (5%)	9 (1%)	21	49
1	O	1018/1023 (100%)	956 (94%)	53 (5%)	9 (1%)	21	49
1	P	1018/1023 (100%)	956 (94%)	53 (5%)	9 (1%)	21	49
All	All	16288/16368 (100%)	15296 (94%)	848 (5%)	144 (1%)	21	49

All (144) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	174	SER
1	B	174	SER
1	C	174	SER
1	D	174	SER
1	E	174	SER
1	F	174	SER

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Mol	Chain	Res	Type
1	G	174	SER
1	H	174	SER
1	I	174	SER
1	J	174	SER
1	K	174	SER
1	L	174	SER
1	M	174	SER
1	N	174	SER
1	O	174	SER
1	P	174	SER
1	A	46	ARG
1	A	164	ASP
1	A	461	GLU
1	B	46	ARG
1	B	164	ASP
1	B	461	GLU
1	C	46	ARG
1	C	164	ASP
1	C	461	GLU
1	D	46	ARG
1	D	164	ASP
1	D	461	GLU
1	E	46	ARG
1	E	164	ASP
1	E	461	GLU
1	F	46	ARG
1	F	164	ASP
1	F	461	GLU
1	G	46	ARG
1	G	164	ASP
1	G	461	GLU
1	H	46	ARG
1	H	164	ASP
1	H	461	GLU
1	I	46	ARG
1	I	164	ASP
1	I	461	GLU
1	J	46	ARG
1	J	164	ASP
1	J	461	GLU
1	K	46	ARG
1	K	164	ASP

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Mol	Chain	Res	Type
1	K	461	GLU
1	L	46	ARG
1	L	164	ASP
1	L	461	GLU
1	M	46	ARG
1	M	164	ASP
1	M	461	GLU
1	N	46	ARG
1	N	164	ASP
1	N	461	GLU
1	O	46	ARG
1	O	164	ASP
1	O	461	GLU
1	P	46	ARG
1	P	164	ASP
1	P	461	GLU
1	A	647	SER
1	B	647	SER
1	C	647	SER
1	D	647	SER
1	E	647	SER
1	E	690	SER
1	F	647	SER
1	G	647	SER
1	H	647	SER
1	H	690	SER
1	I	647	SER
1	J	647	SER
1	K	647	SER
1	L	647	SER
1	M	647	SER
1	M	690	SER
1	N	647	SER
1	O	647	SER
1	P	647	SER
1	A	47	PRO
1	A	70	PRO
1	A	690	SER
1	B	47	PRO
1	B	70	PRO
1	B	690	SER
1	C	47	PRO

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Mol	Chain	Res	Type
1	C	70	PRO
1	C	690	SER
1	D	47	PRO
1	D	70	PRO
1	D	690	SER
1	E	47	PRO
1	E	70	PRO
1	F	47	PRO
1	F	70	PRO
1	F	690	SER
1	G	47	PRO
1	G	70	PRO
1	G	690	SER
1	H	47	PRO
1	H	70	PRO
1	I	47	PRO
1	I	70	PRO
1	I	690	SER
1	J	47	PRO
1	J	70	PRO
1	J	690	SER
1	K	47	PRO
1	K	70	PRO
1	K	690	SER
1	L	47	PRO
1	L	70	PRO
1	L	690	SER
1	M	47	PRO
1	M	70	PRO
1	N	47	PRO
1	N	70	PRO
1	N	690	SER
1	O	47	PRO
1	O	70	PRO
1	O	690	SER
1	P	47	PRO
1	P	70	PRO
1	P	690	SER
1	A	79	PRO
1	B	79	PRO
1	C	79	PRO
1	D	79	PRO

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Mol	Chain	Res	Type
1	E	79	PRO
1	F	79	PRO
1	G	79	PRO
1	H	79	PRO
1	I	79	PRO
1	J	79	PRO
1	K	79	PRO
1	L	79	PRO
1	M	79	PRO
1	N	79	PRO
1	O	79	PRO
1	P	79	PRO

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	872/872 (100%)	759 (87%)	113 (13%)	5	12
1	B	872/872 (100%)	759 (87%)	113 (13%)	5	12
1	C	872/872 (100%)	759 (87%)	113 (13%)	5	12
1	D	872/872 (100%)	759 (87%)	113 (13%)	5	12
1	E	872/872 (100%)	759 (87%)	113 (13%)	5	12
1	F	872/872 (100%)	759 (87%)	113 (13%)	5	12
1	G	872/872 (100%)	759 (87%)	113 (13%)	5	12
1	H	872/872 (100%)	759 (87%)	113 (13%)	5	12
1	I	872/872 (100%)	759 (87%)	113 (13%)	5	12
1	J	872/872 (100%)	759 (87%)	113 (13%)	5	12
1	K	872/872 (100%)	759 (87%)	113 (13%)	5	12
1	L	872/872 (100%)	759 (87%)	113 (13%)	5	12
1	M	872/872 (100%)	759 (87%)	113 (13%)	5	12
1	N	872/872 (100%)	759 (87%)	113 (13%)	5	12

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	O	872/872 (100%)	759 (87%)	113 (13%)	5	12
1	P	872/872 (100%)	759 (87%)	113 (13%)	5	12
All	All	13952/13952 (100%)	12144 (87%)	1808 (13%)	5	12

All (1808) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	3	ILE
1	A	9	VAL
1	A	13	ARG
1	A	24	LEU
1	A	37	ARG
1	A	38	ASN
1	A	39	SER
1	A	43	ARG
1	A	48	SER
1	A	49	GLN
1	A	50	GLN
1	A	52	ARG
1	A	57	GLU
1	A	67	GLU
1	A	71	GLU
1	A	72	SER
1	A	77	ASP
1	A	80	GLU
1	A	90	TRP
1	A	102	ASN
1	A	116	THR
1	A	124	SER
1	A	125	LEU
1	A	128	ASN
1	A	136	GLU
1	A	141	ILE
1	A	165	SER
1	A	178	ARG
1	A	189	LEU
1	A	190	ARG
1	A	202	MET
1	A	211	ASP
1	A	213	SER
1	A	219	THR

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Mol	Chain	Res	Type
1	A	237	ARG
1	A	246	MET
1	A	247	CYS
1	A	250	LEU
1	A	259	SER
1	A	264	GLU
1	A	267	VAL
1	A	277	GLU
1	A	279	ILE
1	A	282	ARG
1	A	299	LYS
1	A	310	ARG
1	A	312	VAL
1	A	314	GLU
1	A	333	ARG
1	A	336	ARG
1	A	347	LYS
1	A	370	GLN
1	A	425	ARG
1	A	437	SER
1	A	445	GLN
1	A	448	ARG
1	A	461	GLU
1	A	473	ARG
1	A	477	SER
1	A	482	ARG
1	A	494	THR
1	A	519	SER
1	A	521	LYS
1	A	533	LEU
1	A	546	LEU
1	A	554	GLN
1	A	571	VAL
1	A	581	ASN
1	A	599	ARG
1	A	600	GLN
1	A	630	ARG
1	A	635	THR
1	A	651	LEU
1	A	652	LEU
1	A	655	MET
1	A	661	LYS

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Mol	Chain	Res	Type
1	A	665	SER
1	A	672	VAL
1	A	675	GLN
1	A	681	GLU
1	A	684	GLU
1	A	690	SER
1	A	719	GLN
1	A	730	LEU
1	A	734	SER
1	A	743	SER
1	A	749	ILE
1	A	755	ARG
1	A	768	MET
1	A	773	LYS
1	A	778	THR
1	A	781	ARG
1	A	797	GLU
1	A	799	THR
1	A	800	ARG
1	A	801	ILE
1	A	804	ASN
1	A	809	ARG
1	A	822	LEU
1	A	824	GLN
1	A	832	ASP
1	A	837	THR
1	A	857	ARG
1	A	867	THR
1	A	881	ARG
1	A	903[A]	GLN
1	A	903[B]	GLN
1	A	917	ARG
1	A	938	ARG
1	A	956	GLN
1	A	961	ARG
1	A	1006	GLU
1	A	1018	LEU
1	B	3	ILE
1	B	9	VAL
1	B	13	ARG
1	B	24	LEU
1	B	37	ARG

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Mol	Chain	Res	Type
1	B	38	ASN
1	B	39	SER
1	B	43	ARG
1	B	48	SER
1	B	49	GLN
1	B	50	GLN
1	B	52	ARG
1	B	57	GLU
1	B	67	GLU
1	B	71	GLU
1	B	72	SER
1	B	77	ASP
1	B	80	GLU
1	B	90	TRP
1	B	102	ASN
1	B	116	THR
1	B	124	SER
1	B	125	LEU
1	B	128	ASN
1	B	136	GLU
1	B	141	ILE
1	B	165	SER
1	B	178	ARG
1	B	189	LEU
1	B	190	ARG
1	B	202	MET
1	B	211	ASP
1	B	213	SER
1	B	219	THR
1	B	237	ARG
1	B	246	MET
1	B	247	CYS
1	B	250	LEU
1	B	259	SER
1	B	264	GLU
1	B	267	VAL
1	B	277	GLU
1	B	279	ILE
1	B	282	ARG
1	B	299	LYS
1	B	310	ARG
1	B	312	VAL

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Mol	Chain	Res	Type
1	B	314	GLU
1	B	333	ARG
1	B	336	ARG
1	B	347	LYS
1	B	370	GLN
1	B	425	ARG
1	B	437	SER
1	B	445	GLN
1	B	448	ARG
1	B	461	GLU
1	B	473	ARG
1	B	477	SER
1	B	482	ARG
1	B	494	THR
1	B	519	SER
1	B	521	LYS
1	B	533	LEU
1	B	546	LEU
1	B	554	GLN
1	B	571	VAL
1	B	581	ASN
1	B	599	ARG
1	B	600	GLN
1	B	630	ARG
1	B	635	THR
1	B	651	LEU
1	B	652	LEU
1	B	655	MET
1	B	661	LYS
1	B	665	SER
1	B	672	VAL
1	B	675	GLN
1	B	681	GLU
1	B	684	GLU
1	B	690	SER
1	B	719	GLN
1	B	730	LEU
1	B	734	SER
1	B	743	SER
1	B	749	ILE
1	B	755	ARG
1	B	768	MET

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Mol	Chain	Res	Type
1	B	773	LYS
1	B	778	THR
1	B	781	ARG
1	B	797	GLU
1	B	799	THR
1	B	800	ARG
1	B	801	ILE
1	B	804	ASN
1	B	809	ARG
1	B	822	LEU
1	B	824	GLN
1	B	832	ASP
1	B	837	THR
1	B	857	ARG
1	B	867	THR
1	B	881	ARG
1	B	903[A]	GLN
1	B	903[B]	GLN
1	B	917	ARG
1	B	938	ARG
1	B	956	GLN
1	B	961	ARG
1	B	1006	GLU
1	B	1018	LEU
1	C	3	ILE
1	C	9	VAL
1	C	13	ARG
1	C	24	LEU
1	C	37	ARG
1	C	38	ASN
1	C	39	SER
1	C	43	ARG
1	C	48	SER
1	C	49	GLN
1	C	50	GLN
1	C	52	ARG
1	C	57	GLU
1	C	67	GLU
1	C	71	GLU
1	C	72	SER
1	C	77	ASP
1	C	80	GLU

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Mol	Chain	Res	Type
1	C	90	TRP
1	C	102	ASN
1	C	116	THR
1	C	124	SER
1	C	125	LEU
1	C	128	ASN
1	C	136	GLU
1	C	141	ILE
1	C	165	SER
1	C	178	ARG
1	C	189	LEU
1	C	190	ARG
1	C	202	MET
1	C	211	ASP
1	C	213	SER
1	C	219	THR
1	C	237	ARG
1	C	246	MET
1	C	247	CYS
1	C	250	LEU
1	C	259	SER
1	C	264	GLU
1	C	267	VAL
1	C	277	GLU
1	C	279	ILE
1	C	282	ARG
1	C	299	LYS
1	C	310	ARG
1	C	312	VAL
1	C	314	GLU
1	C	333	ARG
1	C	336	ARG
1	C	347	LYS
1	C	370	GLN
1	C	425	ARG
1	C	437	SER
1	C	445	GLN
1	C	448	ARG
1	C	461	GLU
1	C	473	ARG
1	C	477	SER
1	C	482	ARG

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Mol	Chain	Res	Type
1	C	494	THR
1	C	519	SER
1	C	521	LYS
1	C	533	LEU
1	C	546	LEU
1	C	554	GLN
1	C	571	VAL
1	C	581	ASN
1	C	599	ARG
1	C	600	GLN
1	C	630	ARG
1	C	635	THR
1	C	651	LEU
1	C	652	LEU
1	C	655	MET
1	C	661	LYS
1	C	665	SER
1	C	672	VAL
1	C	675	GLN
1	C	681	GLU
1	C	684	GLU
1	C	690	SER
1	C	719	GLN
1	C	730	LEU
1	C	734	SER
1	C	743	SER
1	C	749	ILE
1	C	755	ARG
1	C	768	MET
1	C	773	LYS
1	C	778	THR
1	C	781	ARG
1	C	797	GLU
1	C	799	THR
1	C	800	ARG
1	C	801	ILE
1	C	804	ASN
1	C	809	ARG
1	C	822	LEU
1	C	824	GLN
1	C	832	ASP
1	C	837	THR

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Mol	Chain	Res	Type
1	C	857	ARG
1	C	867	THR
1	C	881	ARG
1	C	903[A]	GLN
1	C	903[B]	GLN
1	C	917	ARG
1	C	938	ARG
1	C	956	GLN
1	C	961	ARG
1	C	1006	GLU
1	C	1018	LEU
1	D	3	ILE
1	D	9	VAL
1	D	13	ARG
1	D	24	LEU
1	D	37	ARG
1	D	38	ASN
1	D	39	SER
1	D	43	ARG
1	D	48	SER
1	D	49	GLN
1	D	50	GLN
1	D	52	ARG
1	D	57	GLU
1	D	67	GLU
1	D	71	GLU
1	D	72	SER
1	D	77	ASP
1	D	80	GLU
1	D	90	TRP
1	D	102	ASN
1	D	116	THR
1	D	124	SER
1	D	125	LEU
1	D	128	ASN
1	D	136	GLU
1	D	141	ILE
1	D	165	SER
1	D	178	ARG
1	D	189	LEU
1	D	190	ARG
1	D	202	MET

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Mol	Chain	Res	Type
1	D	211	ASP
1	D	213	SER
1	D	219	THR
1	D	237	ARG
1	D	246	MET
1	D	247	CYS
1	D	250	LEU
1	D	259	SER
1	D	264	GLU
1	D	267	VAL
1	D	277	GLU
1	D	279	ILE
1	D	282	ARG
1	D	299	LYS
1	D	310	ARG
1	D	312	VAL
1	D	314	GLU
1	D	333	ARG
1	D	336	ARG
1	D	347	LYS
1	D	370	GLN
1	D	425	ARG
1	D	437	SER
1	D	445	GLN
1	D	448	ARG
1	D	461	GLU
1	D	473	ARG
1	D	477	SER
1	D	482	ARG
1	D	494	THR
1	D	519	SER
1	D	521	LYS
1	D	533	LEU
1	D	546	LEU
1	D	554	GLN
1	D	571	VAL
1	D	581	ASN
1	D	599	ARG
1	D	600	GLN
1	D	630	ARG
1	D	635	THR
1	D	651	LEU

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Mol	Chain	Res	Type
1	D	652	LEU
1	D	655	MET
1	D	661	LYS
1	D	665	SER
1	D	672	VAL
1	D	675	GLN
1	D	681	GLU
1	D	684	GLU
1	D	690	SER
1	D	719	GLN
1	D	730	LEU
1	D	734	SER
1	D	743	SER
1	D	749	ILE
1	D	755	ARG
1	D	768	MET
1	D	773	LYS
1	D	778	THR
1	D	781	ARG
1	D	797	GLU
1	D	799	THR
1	D	800	ARG
1	D	801	ILE
1	D	804	ASN
1	D	809	ARG
1	D	822	LEU
1	D	824	GLN
1	D	832	ASP
1	D	837	THR
1	D	857	ARG
1	D	867	THR
1	D	881	ARG
1	D	903[A]	GLN
1	D	903[B]	GLN
1	D	917	ARG
1	D	938	ARG
1	D	956	GLN
1	D	961	ARG
1	D	1006	GLU
1	D	1018	LEU
1	E	3	ILE
1	E	9	VAL

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Mol	Chain	Res	Type
1	E	13	ARG
1	E	24	LEU
1	E	37	ARG
1	E	38	ASN
1	E	39	SER
1	E	43	ARG
1	E	48	SER
1	E	49	GLN
1	E	50	GLN
1	E	52	ARG
1	E	57	GLU
1	E	67	GLU
1	E	71	GLU
1	E	72	SER
1	E	77	ASP
1	E	80	GLU
1	E	90	TRP
1	E	102	ASN
1	E	116	THR
1	E	124	SER
1	E	125	LEU
1	E	128	ASN
1	E	136	GLU
1	E	141	ILE
1	E	165	SER
1	E	178	ARG
1	E	189	LEU
1	E	190	ARG
1	E	202	MET
1	E	211	ASP
1	E	213	SER
1	E	219	THR
1	E	237	ARG
1	E	246	MET
1	E	247	CYS
1	E	250	LEU
1	E	259	SER
1	E	264	GLU
1	E	267	VAL
1	E	277	GLU
1	E	279	ILE
1	E	282	ARG

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Mol	Chain	Res	Type
1	E	299	LYS
1	E	310	ARG
1	E	312	VAL
1	E	314	GLU
1	E	333	ARG
1	E	336	ARG
1	E	347	LYS
1	E	370	GLN
1	E	425	ARG
1	E	437	SER
1	E	445	GLN
1	E	448	ARG
1	E	461	GLU
1	E	473	ARG
1	E	477	SER
1	E	482	ARG
1	E	494	THR
1	E	519	SER
1	E	521	LYS
1	E	533	LEU
1	E	546	LEU
1	E	554	GLN
1	E	571	VAL
1	E	581	ASN
1	E	599	ARG
1	E	600	GLN
1	E	630	ARG
1	E	635	THR
1	E	651	LEU
1	E	652	LEU
1	E	655	MET
1	E	661	LYS
1	E	665	SER
1	E	672	VAL
1	E	675	GLN
1	E	681	GLU
1	E	684	GLU
1	E	690	SER
1	E	719	GLN
1	E	730	LEU
1	E	734	SER
1	E	743	SER

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Mol	Chain	Res	Type
1	E	749	ILE
1	E	755	ARG
1	E	768	MET
1	E	773	LYS
1	E	778	THR
1	E	781	ARG
1	E	797	GLU
1	E	799	THR
1	E	800	ARG
1	E	801	ILE
1	E	804	ASN
1	E	809	ARG
1	E	822	LEU
1	E	824	GLN
1	E	832	ASP
1	E	837	THR
1	E	857	ARG
1	E	867	THR
1	E	881	ARG
1	E	903[A]	GLN
1	E	903[B]	GLN
1	E	917	ARG
1	E	938	ARG
1	E	956	GLN
1	E	961	ARG
1	E	1006	GLU
1	E	1018	LEU
1	F	3	ILE
1	F	9	VAL
1	F	13	ARG
1	F	24	LEU
1	F	37	ARG
1	F	38	ASN
1	F	39	SER
1	F	43	ARG
1	F	48	SER
1	F	49	GLN
1	F	50	GLN
1	F	52	ARG
1	F	57	GLU
1	F	67	GLU
1	F	71	GLU

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Mol	Chain	Res	Type
1	F	72	SER
1	F	77	ASP
1	F	80	GLU
1	F	90	TRP
1	F	102	ASN
1	F	116	THR
1	F	124	SER
1	F	125	LEU
1	F	128	ASN
1	F	136	GLU
1	F	141	ILE
1	F	165	SER
1	F	178	ARG
1	F	189	LEU
1	F	190	ARG
1	F	202	MET
1	F	211	ASP
1	F	213	SER
1	F	219	THR
1	F	237	ARG
1	F	246	MET
1	F	247	CYS
1	F	250	LEU
1	F	259	SER
1	F	264	GLU
1	F	267	VAL
1	F	277	GLU
1	F	279	ILE
1	F	282	ARG
1	F	299	LYS
1	F	310	ARG
1	F	312	VAL
1	F	314	GLU
1	F	333	ARG
1	F	336	ARG
1	F	347	LYS
1	F	370	GLN
1	F	425	ARG
1	F	437	SER
1	F	445	GLN
1	F	448	ARG
1	F	461	GLU

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Mol	Chain	Res	Type
1	F	473	ARG
1	F	477	SER
1	F	482	ARG
1	F	494	THR
1	F	519	SER
1	F	521	LYS
1	F	533	LEU
1	F	546	LEU
1	F	554	GLN
1	F	571	VAL
1	F	581	ASN
1	F	599	ARG
1	F	600	GLN
1	F	630	ARG
1	F	635	THR
1	F	651	LEU
1	F	652	LEU
1	F	655	MET
1	F	661	LYS
1	F	665	SER
1	F	672	VAL
1	F	675	GLN
1	F	681	GLU
1	F	684	GLU
1	F	690	SER
1	F	719	GLN
1	F	730	LEU
1	F	734	SER
1	F	743	SER
1	F	749	ILE
1	F	755	ARG
1	F	768	MET
1	F	773	LYS
1	F	778	THR
1	F	781	ARG
1	F	797	GLU
1	F	799	THR
1	F	800	ARG
1	F	801	ILE
1	F	804	ASN
1	F	809	ARG
1	F	822	LEU

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Mol	Chain	Res	Type
1	F	824	GLN
1	F	832	ASP
1	F	837	THR
1	F	857	ARG
1	F	867	THR
1	F	881	ARG
1	F	903[A]	GLN
1	F	903[B]	GLN
1	F	917	ARG
1	F	938	ARG
1	F	956	GLN
1	F	961	ARG
1	F	1006	GLU
1	F	1018	LEU
1	G	3	ILE
1	G	9	VAL
1	G	13	ARG
1	G	24	LEU
1	G	37	ARG
1	G	38	ASN
1	G	39	SER
1	G	43	ARG
1	G	48	SER
1	G	49	GLN
1	G	50	GLN
1	G	52	ARG
1	G	57	GLU
1	G	67	GLU
1	G	71	GLU
1	G	72	SER
1	G	77	ASP
1	G	80	GLU
1	G	90	TRP
1	G	102	ASN
1	G	116	THR
1	G	124	SER
1	G	125	LEU
1	G	128	ASN
1	G	136	GLU
1	G	141	ILE
1	G	165	SER
1	G	178	ARG

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Mol	Chain	Res	Type
1	G	189	LEU
1	G	190	ARG
1	G	202	MET
1	G	211	ASP
1	G	213	SER
1	G	219	THR
1	G	237	ARG
1	G	246	MET
1	G	247	CYS
1	G	250	LEU
1	G	259	SER
1	G	264	GLU
1	G	267	VAL
1	G	277	GLU
1	G	279	ILE
1	G	282	ARG
1	G	299	LYS
1	G	310	ARG
1	G	312	VAL
1	G	314	GLU
1	G	333	ARG
1	G	336	ARG
1	G	347	LYS
1	G	370	GLN
1	G	425	ARG
1	G	437	SER
1	G	445	GLN
1	G	448	ARG
1	G	461	GLU
1	G	473	ARG
1	G	477	SER
1	G	482	ARG
1	G	494	THR
1	G	519	SER
1	G	521	LYS
1	G	533	LEU
1	G	546	LEU
1	G	554	GLN
1	G	571	VAL
1	G	581	ASN
1	G	599	ARG
1	G	600	GLN

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Mol	Chain	Res	Type
1	G	630	ARG
1	G	635	THR
1	G	651	LEU
1	G	652	LEU
1	G	655	MET
1	G	661	LYS
1	G	665	SER
1	G	672	VAL
1	G	675	GLN
1	G	681	GLU
1	G	684	GLU
1	G	690	SER
1	G	719	GLN
1	G	730	LEU
1	G	734	SER
1	G	743	SER
1	G	749	ILE
1	G	755	ARG
1	G	768	MET
1	G	773	LYS
1	G	778	THR
1	G	781	ARG
1	G	797	GLU
1	G	799	THR
1	G	800	ARG
1	G	801	ILE
1	G	804	ASN
1	G	809	ARG
1	G	822	LEU
1	G	824	GLN
1	G	832	ASP
1	G	837	THR
1	G	857	ARG
1	G	867	THR
1	G	881	ARG
1	G	903[A]	GLN
1	G	903[B]	GLN
1	G	917	ARG
1	G	938	ARG
1	G	956	GLN
1	G	961	ARG
1	G	1006	GLU

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Mol	Chain	Res	Type
1	G	1018	LEU
1	H	3	ILE
1	H	9	VAL
1	H	13	ARG
1	H	24	LEU
1	H	37	ARG
1	H	38	ASN
1	H	39	SER
1	H	43	ARG
1	H	48	SER
1	H	49	GLN
1	H	50	GLN
1	H	52	ARG
1	H	57	GLU
1	H	67	GLU
1	H	71	GLU
1	H	72	SER
1	H	77	ASP
1	H	80	GLU
1	H	90	TRP
1	H	102	ASN
1	H	116	THR
1	H	124	SER
1	H	125	LEU
1	H	128	ASN
1	H	136	GLU
1	H	141	ILE
1	H	165	SER
1	H	178	ARG
1	H	189	LEU
1	H	190	ARG
1	H	202	MET
1	H	211	ASP
1	H	213	SER
1	H	219	THR
1	H	237	ARG
1	H	246	MET
1	H	247	CYS
1	H	250	LEU
1	H	259	SER
1	H	264	GLU
1	H	267	VAL

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Mol	Chain	Res	Type
1	H	277	GLU
1	H	279	ILE
1	H	282	ARG
1	H	299	LYS
1	H	310	ARG
1	H	312	VAL
1	H	314	GLU
1	H	333	ARG
1	H	336	ARG
1	H	347	LYS
1	H	370	GLN
1	H	425	ARG
1	H	437	SER
1	H	445	GLN
1	H	448	ARG
1	H	461	GLU
1	H	473	ARG
1	H	477	SER
1	H	482	ARG
1	H	494	THR
1	H	519	SER
1	H	521	LYS
1	H	533	LEU
1	H	546	LEU
1	H	554	GLN
1	H	571	VAL
1	H	581	ASN
1	H	599	ARG
1	H	600	GLN
1	H	630	ARG
1	H	635	THR
1	H	651	LEU
1	H	652	LEU
1	H	655	MET
1	H	661	LYS
1	H	665	SER
1	H	672	VAL
1	H	675	GLN
1	H	681	GLU
1	H	684	GLU
1	H	690	SER
1	H	719	GLN

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Mol	Chain	Res	Type
1	H	730	LEU
1	H	734	SER
1	H	743	SER
1	H	749	ILE
1	H	755	ARG
1	H	768	MET
1	H	773	LYS
1	H	778	THR
1	H	781	ARG
1	H	797	GLU
1	H	799	THR
1	H	800	ARG
1	H	801	ILE
1	H	804	ASN
1	H	809	ARG
1	H	822	LEU
1	H	824	GLN
1	H	832	ASP
1	H	837	THR
1	H	857	ARG
1	H	867	THR
1	H	881	ARG
1	H	903[A]	GLN
1	H	903[B]	GLN
1	H	917	ARG
1	H	938	ARG
1	H	956	GLN
1	H	961	ARG
1	H	1006	GLU
1	H	1018	LEU
1	I	3	ILE
1	I	9	VAL
1	I	13	ARG
1	I	24	LEU
1	I	37	ARG
1	I	38	ASN
1	I	39	SER
1	I	43	ARG
1	I	48	SER
1	I	49	GLN
1	I	50	GLN
1	I	52	ARG

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Mol	Chain	Res	Type
1	I	57	GLU
1	I	67	GLU
1	I	71	GLU
1	I	72	SER
1	I	77	ASP
1	I	80	GLU
1	I	90	TRP
1	I	102	ASN
1	I	116	THR
1	I	124	SER
1	I	125	LEU
1	I	128	ASN
1	I	136	GLU
1	I	141	ILE
1	I	165	SER
1	I	178	ARG
1	I	189	LEU
1	I	190	ARG
1	I	202	MET
1	I	211	ASP
1	I	213	SER
1	I	219	THR
1	I	237	ARG
1	I	246	MET
1	I	247	CYS
1	I	250	LEU
1	I	259	SER
1	I	264	GLU
1	I	267	VAL
1	I	277	GLU
1	I	279	ILE
1	I	282	ARG
1	I	299	LYS
1	I	310	ARG
1	I	312	VAL
1	I	314	GLU
1	I	333	ARG
1	I	336	ARG
1	I	347	LYS
1	I	370	GLN
1	I	425	ARG
1	I	437	SER

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Mol	Chain	Res	Type
1	I	445	GLN
1	I	448	ARG
1	I	461	GLU
1	I	473	ARG
1	I	477	SER
1	I	482	ARG
1	I	494	THR
1	I	519	SER
1	I	521	LYS
1	I	533	LEU
1	I	546	LEU
1	I	554	GLN
1	I	571	VAL
1	I	581	ASN
1	I	599	ARG
1	I	600	GLN
1	I	630	ARG
1	I	635	THR
1	I	651	LEU
1	I	652	LEU
1	I	655	MET
1	I	661	LYS
1	I	665	SER
1	I	672	VAL
1	I	675	GLN
1	I	681	GLU
1	I	684	GLU
1	I	690	SER
1	I	719	GLN
1	I	730	LEU
1	I	734	SER
1	I	743	SER
1	I	749	ILE
1	I	755	ARG
1	I	768	MET
1	I	773	LYS
1	I	778	THR
1	I	781	ARG
1	I	797	GLU
1	I	799	THR
1	I	800	ARG
1	I	801	ILE

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Mol	Chain	Res	Type
1	I	804	ASN
1	I	809	ARG
1	I	822	LEU
1	I	824	GLN
1	I	832	ASP
1	I	837	THR
1	I	857	ARG
1	I	867	THR
1	I	881	ARG
1	I	903[A]	GLN
1	I	903[B]	GLN
1	I	917	ARG
1	I	938	ARG
1	I	956	GLN
1	I	961	ARG
1	I	1006	GLU
1	I	1018	LEU
1	J	3	ILE
1	J	9	VAL
1	J	13	ARG
1	J	24	LEU
1	J	37	ARG
1	J	38	ASN
1	J	39	SER
1	J	43	ARG
1	J	48	SER
1	J	49	GLN
1	J	50	GLN
1	J	52	ARG
1	J	57	GLU
1	J	67	GLU
1	J	71	GLU
1	J	72	SER
1	J	77	ASP
1	J	80	GLU
1	J	90	TRP
1	J	102	ASN
1	J	116	THR
1	J	124	SER
1	J	125	LEU
1	J	128	ASN
1	J	136	GLU

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Mol	Chain	Res	Type
1	J	141	ILE
1	J	165	SER
1	J	178	ARG
1	J	189	LEU
1	J	190	ARG
1	J	202	MET
1	J	211	ASP
1	J	213	SER
1	J	219	THR
1	J	237	ARG
1	J	246	MET
1	J	247	CYS
1	J	250	LEU
1	J	259	SER
1	J	264	GLU
1	J	267	VAL
1	J	277	GLU
1	J	279	ILE
1	J	282	ARG
1	J	299	LYS
1	J	310	ARG
1	J	312	VAL
1	J	314	GLU
1	J	333	ARG
1	J	336	ARG
1	J	347	LYS
1	J	370	GLN
1	J	425	ARG
1	J	437	SER
1	J	445	GLN
1	J	448	ARG
1	J	461	GLU
1	J	473	ARG
1	J	477	SER
1	J	482	ARG
1	J	494	THR
1	J	519	SER
1	J	521	LYS
1	J	533	LEU
1	J	546	LEU
1	J	554	GLN
1	J	571	VAL

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Mol	Chain	Res	Type
1	J	581	ASN
1	J	599	ARG
1	J	600	GLN
1	J	630	ARG
1	J	635	THR
1	J	651	LEU
1	J	652	LEU
1	J	655	MET
1	J	661	LYS
1	J	665	SER
1	J	672	VAL
1	J	675	GLN
1	J	681	GLU
1	J	684	GLU
1	J	690	SER
1	J	719	GLN
1	J	730	LEU
1	J	734	SER
1	J	743	SER
1	J	749	ILE
1	J	755	ARG
1	J	768	MET
1	J	773	LYS
1	J	778	THR
1	J	781	ARG
1	J	797	GLU
1	J	799	THR
1	J	800	ARG
1	J	801	ILE
1	J	804	ASN
1	J	809	ARG
1	J	822	LEU
1	J	824	GLN
1	J	832	ASP
1	J	837	THR
1	J	857	ARG
1	J	867	THR
1	J	881	ARG
1	J	903[A]	GLN
1	J	903[B]	GLN
1	J	917	ARG
1	J	938	ARG

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Mol	Chain	Res	Type
1	J	956	GLN
1	J	961	ARG
1	J	1006	GLU
1	J	1018	LEU
1	K	3	ILE
1	K	9	VAL
1	K	13	ARG
1	K	24	LEU
1	K	37	ARG
1	K	38	ASN
1	K	39	SER
1	K	43	ARG
1	K	48	SER
1	K	49	GLN
1	K	50	GLN
1	K	52	ARG
1	K	57	GLU
1	K	67	GLU
1	K	71	GLU
1	K	72	SER
1	K	77	ASP
1	K	80	GLU
1	K	90	TRP
1	K	102	ASN
1	K	116	THR
1	K	124	SER
1	K	125	LEU
1	K	128	ASN
1	K	136	GLU
1	K	141	ILE
1	K	165	SER
1	K	178	ARG
1	K	189	LEU
1	K	190	ARG
1	K	202	MET
1	K	211	ASP
1	K	213	SER
1	K	219	THR
1	K	237	ARG
1	K	246	MET
1	K	247	CYS
1	K	250	LEU

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Mol	Chain	Res	Type
1	K	259	SER
1	K	264	GLU
1	K	267	VAL
1	K	277	GLU
1	K	279	ILE
1	K	282	ARG
1	K	299	LYS
1	K	310	ARG
1	K	312	VAL
1	K	314	GLU
1	K	333	ARG
1	K	336	ARG
1	K	347	LYS
1	K	370	GLN
1	K	425	ARG
1	K	437	SER
1	K	445	GLN
1	K	448	ARG
1	K	461	GLU
1	K	473	ARG
1	K	477	SER
1	K	482	ARG
1	K	494	THR
1	K	519	SER
1	K	521	LYS
1	K	533	LEU
1	K	546	LEU
1	K	554	GLN
1	K	571	VAL
1	K	581	ASN
1	K	599	ARG
1	K	600	GLN
1	K	630	ARG
1	K	635	THR
1	K	651	LEU
1	K	652	LEU
1	K	655	MET
1	K	661	LYS
1	K	665	SER
1	K	672	VAL
1	K	675	GLN
1	K	681	GLU

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Mol	Chain	Res	Type
1	K	684	GLU
1	K	690	SER
1	K	719	GLN
1	K	730	LEU
1	K	734	SER
1	K	743	SER
1	K	749	ILE
1	K	755	ARG
1	K	768	MET
1	K	773	LYS
1	K	778	THR
1	K	781	ARG
1	K	797	GLU
1	K	799	THR
1	K	800	ARG
1	K	801	ILE
1	K	804	ASN
1	K	809	ARG
1	K	822	LEU
1	K	824	GLN
1	K	832	ASP
1	K	837	THR
1	K	857	ARG
1	K	867	THR
1	K	881	ARG
1	K	903[A]	GLN
1	K	903[B]	GLN
1	K	917	ARG
1	K	938	ARG
1	K	956	GLN
1	K	961	ARG
1	K	1006	GLU
1	K	1018	LEU
1	L	3	ILE
1	L	9	VAL
1	L	13	ARG
1	L	24	LEU
1	L	37	ARG
1	L	38	ASN
1	L	39	SER
1	L	43	ARG
1	L	48	SER

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Mol	Chain	Res	Type
1	L	49	GLN
1	L	50	GLN
1	L	52	ARG
1	L	57	GLU
1	L	67	GLU
1	L	71	GLU
1	L	72	SER
1	L	77	ASP
1	L	80	GLU
1	L	90	TRP
1	L	102	ASN
1	L	116	THR
1	L	124	SER
1	L	125	LEU
1	L	128	ASN
1	L	136	GLU
1	L	141	ILE
1	L	165	SER
1	L	178	ARG
1	L	189	LEU
1	L	190	ARG
1	L	202	MET
1	L	211	ASP
1	L	213	SER
1	L	219	THR
1	L	237	ARG
1	L	246	MET
1	L	247	CYS
1	L	250	LEU
1	L	259	SER
1	L	264	GLU
1	L	267	VAL
1	L	277	GLU
1	L	279	ILE
1	L	282	ARG
1	L	299	LYS
1	L	310	ARG
1	L	312	VAL
1	L	314	GLU
1	L	333	ARG
1	L	336	ARG
1	L	347	LYS

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Mol	Chain	Res	Type
1	L	370	GLN
1	L	425	ARG
1	L	437	SER
1	L	445	GLN
1	L	448	ARG
1	L	461	GLU
1	L	473	ARG
1	L	477	SER
1	L	482	ARG
1	L	494	THR
1	L	519	SER
1	L	521	LYS
1	L	533	LEU
1	L	546	LEU
1	L	554	GLN
1	L	571	VAL
1	L	581	ASN
1	L	599	ARG
1	L	600	GLN
1	L	630	ARG
1	L	635	THR
1	L	651	LEU
1	L	652	LEU
1	L	655	MET
1	L	661	LYS
1	L	665	SER
1	L	672	VAL
1	L	675	GLN
1	L	681	GLU
1	L	684	GLU
1	L	690	SER
1	L	719	GLN
1	L	730	LEU
1	L	734	SER
1	L	743	SER
1	L	749	ILE
1	L	755	ARG
1	L	768	MET
1	L	773	LYS
1	L	778	THR
1	L	781	ARG
1	L	797	GLU

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Mol	Chain	Res	Type
1	L	799	THR
1	L	800	ARG
1	L	801	ILE
1	L	804	ASN
1	L	809	ARG
1	L	822	LEU
1	L	824	GLN
1	L	832	ASP
1	L	837	THR
1	L	857	ARG
1	L	867	THR
1	L	881	ARG
1	L	903[A]	GLN
1	L	903[B]	GLN
1	L	917	ARG
1	L	938	ARG
1	L	956	GLN
1	L	961	ARG
1	L	1006	GLU
1	L	1018	LEU
1	M	3	ILE
1	M	9	VAL
1	M	13	ARG
1	M	24	LEU
1	M	37	ARG
1	M	38	ASN
1	M	39	SER
1	M	43	ARG
1	M	48	SER
1	M	49	GLN
1	M	50	GLN
1	M	52	ARG
1	M	57	GLU
1	M	67	GLU
1	M	71	GLU
1	M	72	SER
1	M	77	ASP
1	M	80	GLU
1	M	90	TRP
1	M	102	ASN
1	M	116	THR
1	M	124	SER

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Mol	Chain	Res	Type
1	M	125	LEU
1	M	128	ASN
1	M	136	GLU
1	M	141	ILE
1	M	165	SER
1	M	178	ARG
1	M	189	LEU
1	M	190	ARG
1	M	202	MET
1	M	211	ASP
1	M	213	SER
1	M	219	THR
1	M	237	ARG
1	M	246	MET
1	M	247	CYS
1	M	250	LEU
1	M	259	SER
1	M	264	GLU
1	M	267	VAL
1	M	277	GLU
1	M	279	ILE
1	M	282	ARG
1	M	299	LYS
1	M	310	ARG
1	M	312	VAL
1	M	314	GLU
1	M	333	ARG
1	M	336	ARG
1	M	347	LYS
1	M	370	GLN
1	M	425	ARG
1	M	437	SER
1	M	445	GLN
1	M	448	ARG
1	M	461	GLU
1	M	473	ARG
1	M	477	SER
1	M	482	ARG
1	M	494	THR
1	M	519	SER
1	M	521	LYS
1	M	533	LEU

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Mol	Chain	Res	Type
1	M	546	LEU
1	M	554	GLN
1	M	571	VAL
1	M	581	ASN
1	M	599	ARG
1	M	600	GLN
1	M	630	ARG
1	M	635	THR
1	M	651	LEU
1	M	652	LEU
1	M	655	MET
1	M	661	LYS
1	M	665	SER
1	M	672	VAL
1	M	675	GLN
1	M	681	GLU
1	M	684	GLU
1	M	690	SER
1	M	719	GLN
1	M	730	LEU
1	M	734	SER
1	M	743	SER
1	M	749	ILE
1	M	755	ARG
1	M	768	MET
1	M	773	LYS
1	M	778	THR
1	M	781	ARG
1	M	797	GLU
1	M	799	THR
1	M	800	ARG
1	M	801	ILE
1	M	804	ASN
1	M	809	ARG
1	M	822	LEU
1	M	824	GLN
1	M	832	ASP
1	M	837	THR
1	M	857	ARG
1	M	867	THR
1	M	881	ARG
1	M	903[A]	GLN

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Mol	Chain	Res	Type
1	M	903[B]	GLN
1	M	917	ARG
1	M	938	ARG
1	M	956	GLN
1	M	961	ARG
1	M	1006	GLU
1	M	1018	LEU
1	N	3	ILE
1	N	9	VAL
1	N	13	ARG
1	N	24	LEU
1	N	37	ARG
1	N	38	ASN
1	N	39	SER
1	N	43	ARG
1	N	48	SER
1	N	49	GLN
1	N	50	GLN
1	N	52	ARG
1	N	57	GLU
1	N	67	GLU
1	N	71	GLU
1	N	72	SER
1	N	77	ASP
1	N	80	GLU
1	N	90	TRP
1	N	102	ASN
1	N	116	THR
1	N	124	SER
1	N	125	LEU
1	N	128	ASN
1	N	136	GLU
1	N	141	ILE
1	N	165	SER
1	N	178	ARG
1	N	189	LEU
1	N	190	ARG
1	N	202	MET
1	N	211	ASP
1	N	213	SER
1	N	219	THR
1	N	237	ARG

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Mol	Chain	Res	Type
1	N	246	MET
1	N	247	CYS
1	N	250	LEU
1	N	259	SER
1	N	264	GLU
1	N	267	VAL
1	N	277	GLU
1	N	279	ILE
1	N	282	ARG
1	N	299	LYS
1	N	310	ARG
1	N	312	VAL
1	N	314	GLU
1	N	333	ARG
1	N	336	ARG
1	N	347	LYS
1	N	370	GLN
1	N	425	ARG
1	N	437	SER
1	N	445	GLN
1	N	448	ARG
1	N	461	GLU
1	N	473	ARG
1	N	477	SER
1	N	482	ARG
1	N	494	THR
1	N	519	SER
1	N	521	LYS
1	N	533	LEU
1	N	546	LEU
1	N	554	GLN
1	N	571	VAL
1	N	581	ASN
1	N	599	ARG
1	N	600	GLN
1	N	630	ARG
1	N	635	THR
1	N	651	LEU
1	N	652	LEU
1	N	655	MET
1	N	661	LYS
1	N	665	SER

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Mol	Chain	Res	Type
1	N	672	VAL
1	N	675	GLN
1	N	681	GLU
1	N	684	GLU
1	N	690	SER
1	N	719	GLN
1	N	730	LEU
1	N	734	SER
1	N	743	SER
1	N	749	ILE
1	N	755	ARG
1	N	768	MET
1	N	773	LYS
1	N	778	THR
1	N	781	ARG
1	N	797	GLU
1	N	799	THR
1	N	800	ARG
1	N	801	ILE
1	N	804	ASN
1	N	809	ARG
1	N	822	LEU
1	N	824	GLN
1	N	832	ASP
1	N	837	THR
1	N	857	ARG
1	N	867	THR
1	N	881	ARG
1	N	903[A]	GLN
1	N	903[B]	GLN
1	N	917	ARG
1	N	938	ARG
1	N	956	GLN
1	N	961	ARG
1	N	1006	GLU
1	N	1018	LEU
1	O	3	ILE
1	O	9	VAL
1	O	13	ARG
1	O	24	LEU
1	O	37	ARG
1	O	38	ASN

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Mol	Chain	Res	Type
1	O	39	SER
1	O	43	ARG
1	O	48	SER
1	O	49	GLN
1	O	50	GLN
1	O	52	ARG
1	O	57	GLU
1	O	67	GLU
1	O	71	GLU
1	O	72	SER
1	O	77	ASP
1	O	80	GLU
1	O	90	TRP
1	O	102	ASN
1	O	116	THR
1	O	124	SER
1	O	125	LEU
1	O	128	ASN
1	O	136	GLU
1	O	141	ILE
1	O	165	SER
1	O	178	ARG
1	O	189	LEU
1	O	190	ARG
1	O	202	MET
1	O	211	ASP
1	O	213	SER
1	O	219	THR
1	O	237	ARG
1	O	246	MET
1	O	247	CYS
1	O	250	LEU
1	O	259	SER
1	O	264	GLU
1	O	267	VAL
1	O	277	GLU
1	O	279	ILE
1	O	282	ARG
1	O	299	LYS
1	O	310	ARG
1	O	312	VAL
1	O	314	GLU

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Mol	Chain	Res	Type
1	O	333	ARG
1	O	336	ARG
1	O	347	LYS
1	O	370	GLN
1	O	425	ARG
1	O	437	SER
1	O	445	GLN
1	O	448	ARG
1	O	461	GLU
1	O	473	ARG
1	O	477	SER
1	O	482	ARG
1	O	494	THR
1	O	519	SER
1	O	521	LYS
1	O	533	LEU
1	O	546	LEU
1	O	554	GLN
1	O	571	VAL
1	O	581	ASN
1	O	599	ARG
1	O	600	GLN
1	O	630	ARG
1	O	635	THR
1	O	651	LEU
1	O	652	LEU
1	O	655	MET
1	O	661	LYS
1	O	665	SER
1	O	672	VAL
1	O	675	GLN
1	O	681	GLU
1	O	684	GLU
1	O	690	SER
1	O	719	GLN
1	O	730	LEU
1	O	734	SER
1	O	743	SER
1	O	749	ILE
1	O	755	ARG
1	O	768	MET
1	O	773	LYS

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Mol	Chain	Res	Type
1	O	778	THR
1	O	781	ARG
1	O	797	GLU
1	O	799	THR
1	O	800	ARG
1	O	801	ILE
1	O	804	ASN
1	O	809	ARG
1	O	822	LEU
1	O	824	GLN
1	O	832	ASP
1	O	837	THR
1	O	857	ARG
1	O	867	THR
1	O	881	ARG
1	O	903[A]	GLN
1	O	903[B]	GLN
1	O	917	ARG
1	O	938	ARG
1	O	956	GLN
1	O	961	ARG
1	O	1006	GLU
1	O	1018	LEU
1	P	3	ILE
1	P	9	VAL
1	P	13	ARG
1	P	24	LEU
1	P	37	ARG
1	P	38	ASN
1	P	39	SER
1	P	43	ARG
1	P	48	SER
1	P	49	GLN
1	P	50	GLN
1	P	52	ARG
1	P	57	GLU
1	P	67	GLU
1	P	71	GLU
1	P	72	SER
1	P	77	ASP
1	P	80	GLU
1	P	90	TRP

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Mol	Chain	Res	Type
1	P	102	ASN
1	P	116	THR
1	P	124	SER
1	P	125	LEU
1	P	128	ASN
1	P	136	GLU
1	P	141	ILE
1	P	165	SER
1	P	178	ARG
1	P	189	LEU
1	P	190	ARG
1	P	202	MET
1	P	211	ASP
1	P	213	SER
1	P	219	THR
1	P	237	ARG
1	P	246	MET
1	P	247	CYS
1	P	250	LEU
1	P	259	SER
1	P	264	GLU
1	P	267	VAL
1	P	277	GLU
1	P	279	ILE
1	P	282	ARG
1	P	299	LYS
1	P	310	ARG
1	P	312	VAL
1	P	314	GLU
1	P	333	ARG
1	P	336	ARG
1	P	347	LYS
1	P	370	GLN
1	P	425	ARG
1	P	437	SER
1	P	445	GLN
1	P	448	ARG
1	P	461	GLU
1	P	473	ARG
1	P	477	SER
1	P	482	ARG
1	P	494	THR

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Mol	Chain	Res	Type
1	P	519	SER
1	P	521	LYS
1	P	533	LEU
1	P	546	LEU
1	P	554	GLN
1	P	571	VAL
1	P	581	ASN
1	P	599	ARG
1	P	600	GLN
1	P	630	ARG
1	P	635	THR
1	P	651	LEU
1	P	652	LEU
1	P	655	MET
1	P	661	LYS
1	P	665	SER
1	P	672	VAL
1	P	675	GLN
1	P	681	GLU
1	P	684	GLU
1	P	690	SER
1	P	719	GLN
1	P	730	LEU
1	P	734	SER
1	P	743	SER
1	P	749	ILE
1	P	755	ARG
1	P	768	MET
1	P	773	LYS
1	P	778	THR
1	P	781	ARG
1	P	797	GLU
1	P	799	THR
1	P	800	ARG
1	P	801	ILE
1	P	804	ASN
1	P	809	ARG
1	P	822	LEU
1	P	824	GLN
1	P	832	ASP
1	P	837	THR
1	P	857	ARG

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Mol	Chain	Res	Type
1	P	867	THR
1	P	881	ARG
1	P	903[A]	GLN
1	P	903[B]	GLN
1	P	917	ARG
1	P	938	ARG
1	P	956	GLN
1	P	961	ARG
1	P	1006	GLU
1	P	1018	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (317) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	49	GLN
1	A	102	ASN
1	A	128	ASN
1	A	221	GLN
1	A	226	HIS
1	A	316	HIS
1	A	363	HIS
1	A	394	ASN
1	A	445	GLN
1	A	467	ASN
1	A	597	ASN
1	A	624	GLN
1	A	634	GLN
1	A	739	HIS
1	A	761	GLN
1	A	817	GLN
1	A	949	HIS
1	A	977	HIS
1	A	990	HIS
1	A	1017	GLN
1	B	49	GLN
1	B	102	ASN
1	B	128	ASN
1	B	221	GLN
1	B	226	HIS
1	B	316	HIS
1	B	363	HIS
1	B	394	ASN

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Mol	Chain	Res	Type
1	B	445	GLN
1	B	467	ASN
1	B	597	ASN
1	B	624	GLN
1	B	634	GLN
1	B	739	HIS
1	B	761	GLN
1	B	817	GLN
1	B	949	HIS
1	B	977	HIS
1	B	990	HIS
1	B	1017	GLN
1	C	49	GLN
1	C	102	ASN
1	C	128	ASN
1	C	221	GLN
1	C	226	HIS
1	C	316	HIS
1	C	363	HIS
1	C	394	ASN
1	C	445	GLN
1	C	467	ASN
1	C	597	ASN
1	C	624	GLN
1	C	634	GLN
1	C	739	HIS
1	C	761	GLN
1	C	817	GLN
1	C	949	HIS
1	C	977	HIS
1	C	990	HIS
1	C	1017	GLN
1	D	49	GLN
1	D	102	ASN
1	D	128	ASN
1	D	221	GLN
1	D	226	HIS
1	D	316	HIS
1	D	363	HIS
1	D	394	ASN
1	D	445	GLN
1	D	467	ASN

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Mol	Chain	Res	Type
1	D	597	ASN
1	D	624	GLN
1	D	634	GLN
1	D	739	HIS
1	D	761	GLN
1	D	817	GLN
1	D	949	HIS
1	D	977	HIS
1	D	990	HIS
1	D	1017	GLN
1	E	49	GLN
1	E	102	ASN
1	E	128	ASN
1	E	221	GLN
1	E	226	HIS
1	E	316	HIS
1	E	394	ASN
1	E	445	GLN
1	E	467	ASN
1	E	597	ASN
1	E	624	GLN
1	E	634	GLN
1	E	761	GLN
1	E	817	GLN
1	E	949	HIS
1	E	977	HIS
1	E	990	HIS
1	E	1017	GLN
1	F	49	GLN
1	F	102	ASN
1	F	128	ASN
1	F	221	GLN
1	F	226	HIS
1	F	316	HIS
1	F	363	HIS
1	F	394	ASN
1	F	445	GLN
1	F	467	ASN
1	F	597	ASN
1	F	624	GLN
1	F	634	GLN
1	F	739	HIS

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Mol	Chain	Res	Type
1	F	761	GLN
1	F	817	GLN
1	F	949	HIS
1	F	977	HIS
1	F	990	HIS
1	F	1017	GLN
1	G	49	GLN
1	G	102	ASN
1	G	128	ASN
1	G	221	GLN
1	G	226	HIS
1	G	316	HIS
1	G	363	HIS
1	G	394	ASN
1	G	445	GLN
1	G	467	ASN
1	G	597	ASN
1	G	624	GLN
1	G	634	GLN
1	G	739	HIS
1	G	761	GLN
1	G	817	GLN
1	G	949	HIS
1	G	977	HIS
1	G	990	HIS
1	G	1017	GLN
1	H	49	GLN
1	H	102	ASN
1	H	128	ASN
1	H	221	GLN
1	H	226	HIS
1	H	316	HIS
1	H	363	HIS
1	H	394	ASN
1	H	445	GLN
1	H	467	ASN
1	H	597	ASN
1	H	624	GLN
1	H	634	GLN
1	H	739	HIS
1	H	761	GLN
1	H	817	GLN

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Mol	Chain	Res	Type
1	H	949	HIS
1	H	977	HIS
1	H	990	HIS
1	H	1017	GLN
1	I	49	GLN
1	I	102	ASN
1	I	128	ASN
1	I	221	GLN
1	I	226	HIS
1	I	316	HIS
1	I	363	HIS
1	I	394	ASN
1	I	445	GLN
1	I	467	ASN
1	I	597	ASN
1	I	624	GLN
1	I	634	GLN
1	I	739	HIS
1	I	761	GLN
1	I	817	GLN
1	I	949	HIS
1	I	977	HIS
1	I	990	HIS
1	I	1017	GLN
1	J	49	GLN
1	J	102	ASN
1	J	128	ASN
1	J	221	GLN
1	J	226	HIS
1	J	316	HIS
1	J	363	HIS
1	J	394	ASN
1	J	445	GLN
1	J	467	ASN
1	J	597	ASN
1	J	624	GLN
1	J	634	GLN
1	J	739	HIS
1	J	761	GLN
1	J	817	GLN
1	J	949	HIS
1	J	977	HIS

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Mol	Chain	Res	Type
1	J	990	HIS
1	J	1017	GLN
1	K	49	GLN
1	K	102	ASN
1	K	128	ASN
1	K	221	GLN
1	K	226	HIS
1	K	316	HIS
1	K	363	HIS
1	K	394	ASN
1	K	445	GLN
1	K	467	ASN
1	K	597	ASN
1	K	624	GLN
1	K	634	GLN
1	K	739	HIS
1	K	761	GLN
1	K	817	GLN
1	K	949	HIS
1	K	977	HIS
1	K	990	HIS
1	K	1017	GLN
1	L	49	GLN
1	L	102	ASN
1	L	128	ASN
1	L	221	GLN
1	L	226	HIS
1	L	316	HIS
1	L	363	HIS
1	L	394	ASN
1	L	445	GLN
1	L	467	ASN
1	L	597	ASN
1	L	624	GLN
1	L	634	GLN
1	L	739	HIS
1	L	761	GLN
1	L	817	GLN
1	L	949	HIS
1	L	977	HIS
1	L	990	HIS
1	L	1017	GLN

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Mol	Chain	Res	Type
1	M	49	GLN
1	M	102	ASN
1	M	128	ASN
1	M	221	GLN
1	M	226	HIS
1	M	316	HIS
1	M	363	HIS
1	M	394	ASN
1	M	445	GLN
1	M	467	ASN
1	M	597	ASN
1	M	624	GLN
1	M	634	GLN
1	M	739	HIS
1	M	761	GLN
1	M	817	GLN
1	M	949	HIS
1	M	977	HIS
1	M	990	HIS
1	M	1017	GLN
1	N	49	GLN
1	N	102	ASN
1	N	128	ASN
1	N	221	GLN
1	N	226	HIS
1	N	316	HIS
1	N	363	HIS
1	N	394	ASN
1	N	445	GLN
1	N	467	ASN
1	N	597	ASN
1	N	624	GLN
1	N	634	GLN
1	N	739	HIS
1	N	761	GLN
1	N	817	GLN
1	N	949	HIS
1	N	977	HIS
1	N	990	HIS
1	N	1017	GLN
1	O	49	GLN
1	O	102	ASN

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Mol	Chain	Res	Type
1	O	128	ASN
1	O	221	GLN
1	O	226	HIS
1	O	316	HIS
1	O	363	HIS
1	O	394	ASN
1	O	445	GLN
1	O	467	ASN
1	O	597	ASN
1	O	624	GLN
1	O	634	GLN
1	O	739	HIS
1	O	761	GLN
1	O	817	GLN
1	O	949	HIS
1	O	977	HIS
1	O	990	HIS
1	O	1017	GLN
1	P	49	GLN
1	P	102	ASN
1	P	128	ASN
1	P	221	GLN
1	P	226	HIS
1	P	316	HIS
1	P	363	HIS
1	P	394	ASN
1	P	445	GLN
1	P	467	ASN
1	P	597	ASN
1	P	634	GLN
1	P	739	HIS
1	P	761	GLN
1	P	817	GLN
1	P	949	HIS
1	P	977	HIS
1	P	990	HIS
1	P	1017	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

48 non-standard protein/DNA/RNA residues are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# $ Z > 2$	Counts	RMSZ	# $ Z > 2$
1	CME	A	1021	1	8,9,10	0.59	0	6,9,11	1.34	0
1	CME	A	748	1	8,9,10	0.81	0	6,9,11	1.65	2 (33%)
1	CME	A	914	1	8,9,10	0.81	0	6,9,11	2.05	1 (16%)
1	CME	B	1021	1	8,9,10	0.60	0	6,9,11	1.33	0
1	CME	B	748	1	8,9,10	0.81	0	6,9,11	1.65	2 (33%)
1	CME	B	914	1	8,9,10	0.80	0	6,9,11	2.06	1 (16%)
1	CME	C	1021	1	8,9,10	0.60	0	6,9,11	1.33	0
1	CME	C	748	1	8,9,10	0.81	0	6,9,11	1.65	2 (33%)
1	CME	C	914	1	8,9,10	0.81	0	6,9,11	2.05	1 (16%)
1	CME	D	1021	1	8,9,10	0.61	0	6,9,11	1.33	0
1	CME	D	748	1	8,9,10	0.81	0	6,9,11	1.65	2 (33%)
1	CME	D	914	1	8,9,10	0.80	0	6,9,11	2.05	1 (16%)
1	CME	E	1021	1	8,9,10	0.60	0	6,9,11	1.33	0
1	CME	E	748	1	8,9,10	0.81	0	6,9,11	1.65	2 (33%)
1	CME	E	914	1	8,9,10	0.81	0	6,9,11	2.06	1 (16%)
1	CME	F	1021	1	8,9,10	0.61	0	6,9,11	1.33	0
1	CME	F	748	1	8,9,10	0.81	0	6,9,11	1.65	2 (33%)
1	CME	F	914	1	8,9,10	0.80	0	6,9,11	2.06	1 (16%)
1	CME	G	1021	1	8,9,10	0.60	0	6,9,11	1.33	0
1	CME	G	748	1	8,9,10	0.81	0	6,9,11	1.64	2 (33%)
1	CME	G	914	1	8,9,10	0.81	0	6,9,11	2.06	1 (16%)
1	CME	H	1021	1	8,9,10	0.60	0	6,9,11	1.33	0
1	CME	H	748	1	8,9,10	0.80	0	6,9,11	1.65	2 (33%)
1	CME	H	914	1	8,9,10	0.80	0	6,9,11	2.05	1 (16%)
1	CME	I	1021	1	8,9,10	0.60	0	6,9,11	1.33	0
1	CME	I	748	1	8,9,10	0.81	0	6,9,11	1.65	2 (33%)
1	CME	I	914	1	8,9,10	0.80	0	6,9,11	2.06	1 (16%)
1	CME	J	1021	1	8,9,10	0.60	0	6,9,11	1.33	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	CME	J	748	1	8,9,10	0.81	0	6,9,11	1.65	2 (33%)
1	CME	J	914	1	8,9,10	0.81	0	6,9,11	2.05	1 (16%)
1	CME	K	1021	1	8,9,10	0.60	0	6,9,11	1.33	0
1	CME	K	748	1	8,9,10	0.81	0	6,9,11	1.65	2 (33%)
1	CME	K	914	1	8,9,10	0.81	0	6,9,11	2.06	1 (16%)
1	CME	L	1021	1	8,9,10	0.60	0	6,9,11	1.34	0
1	CME	L	748	1	8,9,10	0.81	0	6,9,11	1.64	2 (33%)
1	CME	L	914	1	8,9,10	0.81	0	6,9,11	2.05	1 (16%)
1	CME	M	1021	1	8,9,10	0.60	0	6,9,11	1.33	0
1	CME	M	748	1	8,9,10	0.81	0	6,9,11	1.65	2 (33%)
1	CME	M	914	1	8,9,10	0.81	0	6,9,11	2.06	1 (16%)
1	CME	N	1021	1	8,9,10	0.60	0	6,9,11	1.33	0
1	CME	N	748	1	8,9,10	0.81	0	6,9,11	1.64	2 (33%)
1	CME	N	914	1	8,9,10	0.81	0	6,9,11	2.05	1 (16%)
1	CME	O	1021	1	8,9,10	0.60	0	6,9,11	1.34	0
1	CME	O	748	1	8,9,10	0.81	0	6,9,11	1.65	2 (33%)
1	CME	O	914	1	8,9,10	0.81	0	6,9,11	2.05	1 (16%)
1	CME	P	1021	1	8,9,10	0.60	0	6,9,11	1.33	0
1	CME	P	748	1	8,9,10	0.82	0	6,9,11	1.65	2 (33%)
1	CME	P	914	1	8,9,10	0.81	0	6,9,11	2.06	1 (16%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	CME	A	1021	1	-	0/5/8/10	0/0/0/0
1	CME	A	748	1	-	0/5/8/10	0/0/0/0
1	CME	A	914	1	-	0/5/8/10	0/0/0/0
1	CME	B	1021	1	-	0/5/8/10	0/0/0/0
1	CME	B	748	1	-	0/5/8/10	0/0/0/0
1	CME	B	914	1	-	0/5/8/10	0/0/0/0
1	CME	C	1021	1	-	0/5/8/10	0/0/0/0
1	CME	C	748	1	-	0/5/8/10	0/0/0/0
1	CME	C	914	1	-	0/5/8/10	0/0/0/0
1	CME	D	1021	1	-	0/5/8/10	0/0/0/0
1	CME	D	748	1	-	0/5/8/10	0/0/0/0
1	CME	D	914	1	-	0/5/8/10	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	CME	E	1021	1	-	0/5/8/10	0/0/0/0
1	CME	E	748	1	-	0/5/8/10	0/0/0/0
1	CME	E	914	1	-	0/5/8/10	0/0/0/0
1	CME	F	1021	1	-	0/5/8/10	0/0/0/0
1	CME	F	748	1	-	0/5/8/10	0/0/0/0
1	CME	F	914	1	-	0/5/8/10	0/0/0/0
1	CME	G	1021	1	-	0/5/8/10	0/0/0/0
1	CME	G	748	1	-	0/5/8/10	0/0/0/0
1	CME	G	914	1	-	0/5/8/10	0/0/0/0
1	CME	H	1021	1	-	0/5/8/10	0/0/0/0
1	CME	H	748	1	-	0/5/8/10	0/0/0/0
1	CME	H	914	1	-	0/5/8/10	0/0/0/0
1	CME	I	1021	1	-	0/5/8/10	0/0/0/0
1	CME	I	748	1	-	0/5/8/10	0/0/0/0
1	CME	I	914	1	-	0/5/8/10	0/0/0/0
1	CME	J	1021	1	-	0/5/8/10	0/0/0/0
1	CME	J	748	1	-	0/5/8/10	0/0/0/0
1	CME	J	914	1	-	0/5/8/10	0/0/0/0
1	CME	K	1021	1	-	0/5/8/10	0/0/0/0
1	CME	K	748	1	-	0/5/8/10	0/0/0/0
1	CME	K	914	1	-	0/5/8/10	0/0/0/0
1	CME	L	1021	1	-	0/5/8/10	0/0/0/0
1	CME	L	748	1	-	0/5/8/10	0/0/0/0
1	CME	L	914	1	-	0/5/8/10	0/0/0/0
1	CME	M	1021	1	-	0/5/8/10	0/0/0/0
1	CME	M	748	1	-	0/5/8/10	0/0/0/0
1	CME	M	914	1	-	0/5/8/10	0/0/0/0
1	CME	N	1021	1	-	0/5/8/10	0/0/0/0
1	CME	N	748	1	-	0/5/8/10	0/0/0/0
1	CME	N	914	1	-	0/5/8/10	0/0/0/0
1	CME	O	1021	1	-	0/5/8/10	0/0/0/0
1	CME	O	748	1	-	0/5/8/10	0/0/0/0
1	CME	O	914	1	-	0/5/8/10	0/0/0/0
1	CME	P	1021	1	-	0/5/8/10	0/0/0/0
1	CME	P	748	1	-	0/5/8/10	0/0/0/0
1	CME	P	914	1	-	0/5/8/10	0/0/0/0

There are no bond length outliers.

All (48) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	914	CME	CB-SG-SD	-4.62	94.94	103.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	914	CME	CB-SG-SD	-4.62	94.95	103.95
1	E	914	CME	CB-SG-SD	-4.62	94.95	103.95
1	K	914	CME	CB-SG-SD	-4.62	94.95	103.95
1	F	914	CME	CB-SG-SD	-4.62	94.95	103.95
1	B	914	CME	CB-SG-SD	-4.62	94.96	103.95
1	P	914	CME	CB-SG-SD	-4.61	94.96	103.95
1	M	914	CME	CB-SG-SD	-4.61	94.96	103.95
1	D	914	CME	CB-SG-SD	-4.61	94.97	103.95
1	A	914	CME	CB-SG-SD	-4.61	94.97	103.95
1	O	914	CME	CB-SG-SD	-4.61	94.97	103.95
1	L	914	CME	CB-SG-SD	-4.61	94.97	103.95
1	C	914	CME	CB-SG-SD	-4.61	94.97	103.95
1	H	914	CME	CB-SG-SD	-4.61	94.98	103.95
1	N	914	CME	CB-SG-SD	-4.61	94.98	103.95
1	J	914	CME	CB-SG-SD	-4.61	94.98	103.95
1	M	748	CME	CA-CB-SG	-2.60	104.79	114.23
1	P	748	CME	CA-CB-SG	-2.60	104.80	114.23
1	H	748	CME	CA-CB-SG	-2.60	104.81	114.23
1	B	748	CME	CA-CB-SG	-2.60	104.81	114.23
1	L	748	CME	CA-CB-SG	-2.59	104.82	114.23
1	C	748	CME	CA-CB-SG	-2.59	104.82	114.23
1	J	748	CME	CA-CB-SG	-2.59	104.83	114.23
1	G	748	CME	CA-CB-SG	-2.59	104.83	114.23
1	N	748	CME	CA-CB-SG	-2.59	104.83	114.23
1	D	748	CME	CA-CB-SG	-2.59	104.83	114.23
1	E	748	CME	CA-CB-SG	-2.59	104.84	114.23
1	O	748	CME	CA-CB-SG	-2.59	104.84	114.23
1	K	748	CME	CA-CB-SG	-2.59	104.84	114.23
1	I	748	CME	CA-CB-SG	-2.59	104.85	114.23
1	F	748	CME	CA-CB-SG	-2.58	104.85	114.23
1	A	748	CME	CA-CB-SG	-2.58	104.85	114.23
1	L	748	CME	CB-SG-SD	2.32	108.47	103.95
1	G	748	CME	CB-SG-SD	2.32	108.47	103.95
1	C	748	CME	CB-SG-SD	2.33	108.49	103.95
1	O	748	CME	CB-SG-SD	2.33	108.49	103.95
1	B	748	CME	CB-SG-SD	2.33	108.50	103.95
1	E	748	CME	CB-SG-SD	2.33	108.50	103.95
1	P	748	CME	CB-SG-SD	2.33	108.50	103.95
1	N	748	CME	CB-SG-SD	2.34	108.50	103.95
1	J	748	CME	CB-SG-SD	2.34	108.50	103.95
1	M	748	CME	CB-SG-SD	2.34	108.51	103.95
1	F	748	CME	CB-SG-SD	2.34	108.51	103.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	748	CME	CB-SG-SD	2.34	108.51	103.95
1	A	748	CME	CB-SG-SD	2.34	108.52	103.95
1	D	748	CME	CB-SG-SD	2.35	108.52	103.95
1	K	748	CME	CB-SG-SD	2.35	108.52	103.95
1	H	748	CME	CB-SG-SD	2.35	108.54	103.95

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

32 monomers are involved in 136 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	A	1021	CME	7	0
1	A	748	CME	2	0
1	B	1021	CME	7	0
1	B	748	CME	2	0
1	C	1021	CME	6	0
1	C	748	CME	2	0
1	D	1021	CME	6	0
1	D	748	CME	2	0
1	E	1021	CME	7	0
1	E	748	CME	2	0
1	F	1021	CME	6	0
1	F	748	CME	2	0
1	G	1021	CME	7	0
1	G	748	CME	2	0
1	H	1021	CME	6	0
1	H	748	CME	2	0
1	I	1021	CME	7	0
1	I	748	CME	2	0
1	J	1021	CME	7	0
1	J	748	CME	2	0
1	K	1021	CME	6	0
1	K	748	CME	2	0
1	L	1021	CME	6	0
1	L	748	CME	2	0
1	M	1021	CME	6	0
1	M	748	CME	2	0
1	N	1021	CME	7	0
1	N	748	CME	2	0
1	O	1021	CME	7	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	O	748	CME	2	0
1	P	1021	CME	6	0
1	P	748	CME	2	0

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 80 ligands modelled in this entry, 64 are monoatomic - leaving 16 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
2	2FL	A	2001	4	23,24,24	0.55	0	33,35,35	1.44	2 (6%)
2	2FL	B	2001	4	23,24,24	0.54	0	33,35,35	1.43	2 (6%)
2	2FL	C	2001	4	23,24,24	0.55	0	33,35,35	1.44	2 (6%)
2	2FL	D	2001	4	23,24,24	0.55	0	33,35,35	1.43	2 (6%)
2	2FL	E	2001	4	23,24,24	0.55	0	33,35,35	1.43	1 (3%)
2	2FL	F	2001	4	23,24,24	0.56	0	33,35,35	1.42	2 (6%)
2	2FL	G	2001	4	23,24,24	0.56	0	33,35,35	1.43	1 (3%)
2	2FL	H	2001	4	23,24,24	0.55	0	33,35,35	1.44	2 (6%)
2	2FL	I	2001	4	23,24,24	0.55	0	33,35,35	1.43	2 (6%)
2	2FL	J	2001	4	23,24,24	0.55	0	33,35,35	1.43	2 (6%)
2	2FL	K	2001	4	23,24,24	0.55	0	33,35,35	1.43	2 (6%)
2	2FL	L	2001	4	23,24,24	0.55	0	33,35,35	1.43	2 (6%)
2	2FL	M	2001	4	23,24,24	0.55	0	33,35,35	1.43	2 (6%)
2	2FL	N	2001	4	23,24,24	0.55	0	33,35,35	1.43	2 (6%)
2	2FL	O	2001	4	23,24,24	0.54	0	33,35,35	1.43	2 (6%)
2	2FL	P	2001	4	23,24,24	0.55	0	33,35,35	1.43	2 (6%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	2FL	A	2001	4	-	0/8/48/48	0/2/2/2
2	2FL	B	2001	4	-	0/8/48/48	0/2/2/2
2	2FL	C	2001	4	-	0/8/48/48	0/2/2/2
2	2FL	D	2001	4	-	0/8/48/48	0/2/2/2
2	2FL	E	2001	4	-	0/8/48/48	0/2/2/2
2	2FL	F	2001	4	-	0/8/48/48	0/2/2/2
2	2FL	G	2001	4	-	0/8/48/48	0/2/2/2
2	2FL	H	2001	4	-	0/8/48/48	0/2/2/2
2	2FL	I	2001	4	-	0/8/48/48	0/2/2/2
2	2FL	J	2001	4	-	0/8/48/48	0/2/2/2
2	2FL	K	2001	4	-	0/8/48/48	0/2/2/2
2	2FL	L	2001	4	-	0/8/48/48	0/2/2/2
2	2FL	M	2001	4	-	0/8/48/48	0/2/2/2
2	2FL	N	2001	4	-	0/8/48/48	0/2/2/2
2	2FL	O	2001	4	-	0/8/48/48	0/2/2/2
2	2FL	P	2001	4	-	0/8/48/48	0/2/2/2

There are no bond length outliers.

All (30) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	N	2001	2FL	C1-C2-C3	2.00	114.61	111.52
2	F	2001	2FL	C1-C2-C3	2.00	114.61	111.52
2	D	2001	2FL	C1-C2-C3	2.00	114.61	111.52
2	A	2001	2FL	C1-C2-C3	2.01	114.62	111.52
2	H	2001	2FL	C1-C2-C3	2.01	114.62	111.52
2	J	2001	2FL	C1-C2-C3	2.02	114.63	111.52
2	P	2001	2FL	C1-C2-C3	2.02	114.64	111.52
2	M	2001	2FL	C1-C2-C3	2.03	114.64	111.52
2	K	2001	2FL	C1-C2-C3	2.03	114.65	111.52
2	I	2001	2FL	C1-C2-C3	2.04	114.66	111.52
2	L	2001	2FL	C1-C2-C3	2.04	114.67	111.52
2	B	2001	2FL	C1-C2-C3	2.04	114.67	111.52
2	C	2001	2FL	C1-C2-C3	2.05	114.67	111.52
2	O	2001	2FL	C1-C2-C3	2.06	114.69	111.52
2	F	2001	2FL	F2-C2-C3	6.78	113.33	108.52
2	D	2001	2FL	F2-C2-C3	6.80	113.34	108.52
2	E	2001	2FL	F2-C2-C3	6.81	113.35	108.52

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Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
2	B	2001	2FL	F2-C2-C3	6.81	113.35	108.52
2	O	2001	2FL	F2-C2-C3	6.82	113.36	108.52
2	P	2001	2FL	F2-C2-C3	6.83	113.37	108.52
2	I	2001	2FL	F2-C2-C3	6.84	113.37	108.52
2	K	2001	2FL	F2-C2-C3	6.84	113.37	108.52
2	J	2001	2FL	F2-C2-C3	6.85	113.38	108.52
2	L	2001	2FL	F2-C2-C3	6.85	113.38	108.52
2	M	2001	2FL	F2-C2-C3	6.85	113.38	108.52
2	N	2001	2FL	F2-C2-C3	6.85	113.39	108.52
2	G	2001	2FL	F2-C2-C3	6.86	113.39	108.52
2	C	2001	2FL	F2-C2-C3	6.88	113.40	108.52
2	A	2001	2FL	F2-C2-C3	6.91	113.42	108.52
2	H	2001	2FL	F2-C2-C3	6.92	113.43	108.52

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

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	1018/1023 (99%)	-0.61	13 (1%) 79 79	2, 23, 63, 99	0
1	B	1018/1023 (99%)	-0.61	10 (0%) 84 85	1, 21, 61, 98	0
1	C	1018/1023 (99%)	-0.62	9 (0%) 85 86	1, 21, 61, 98	0
1	D	1018/1023 (99%)	-0.39	15 (1%) 76 76	10, 31, 69, 100	0
1	E	1018/1023 (99%)	0.14	38 (3%) 45 45	27, 48, 83, 100	0
1	F	1018/1023 (99%)	-0.53	8 (0%) 87 88	8, 28, 67, 100	0
1	G	1018/1023 (99%)	-0.46	17 (1%) 73 74	8, 28, 68, 100	0
1	H	1018/1023 (99%)	-0.14	26 (2%) 59 59	18, 38, 75, 100	0
1	I	1018/1023 (99%)	-0.35	18 (1%) 71 72	11, 32, 70, 100	0
1	J	1018/1023 (99%)	-0.50	11 (1%) 82 83	10, 30, 69, 100	0
1	K	1018/1023 (99%)	-0.12	32 (3%) 52 52	24, 45, 81, 100	0
1	L	1018/1023 (99%)	-0.07	32 (3%) 52 52	25, 45, 81, 100	0
1	M	1018/1023 (99%)	0.35	62 (6%) 25 23	27, 48, 83, 100	0
1	N	1018/1023 (99%)	-0.32	12 (1%) 81 81	16, 36, 74, 100	0
1	O	1018/1023 (99%)	-0.21	25 (2%) 61 61	21, 42, 78, 100	0
1	P	1018/1023 (99%)	0.81	117 (11%) 6 5	39, 60, 91, 100	0
All	All	16288/16368 (99%)	-0.23	445 (2%) 58 58	1, 37, 76, 100	0

All (445) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	P	799	THR	6.4
1	G	735	HIS	6.3
1	F	581	ASN	6.1
1	G	732	ALA	5.9
1	K	735	HIS	5.9

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Mol	Chain	Res	Type	RSRZ
1	L	735	HIS	5.5
1	O	735	HIS	5.4
1	M	596	PRO	5.3
1	K	732	ALA	5.3
1	M	79	PRO	5.3
1	K	731	PRO	5.3
1	H	735	HIS	5.3
1	P	595	THR	5.2
1	M	581	ASN	5.2
1	E	581	ASN	5.2
1	J	581	ASN	5.1
1	A	735	HIS	4.9
1	B	731	PRO	4.9
1	I	581	ASN	4.9
1	O	733	ALA	4.8
1	A	580	GLU	4.8
1	E	79	PRO	4.8
1	P	800	ARG	4.8
1	D	581	ASN	4.7
1	L	733	ALA	4.6
1	B	730	LEU	4.6
1	F	744	GLU	4.6
1	C	581	ASN	4.6
1	K	733	ALA	4.5
1	P	739	HIS	4.5
1	P	798	ALA	4.5
1	B	735	HIS	4.5
1	K	734	SER	4.5
1	P	683	PRO	4.4
1	P	575	LEU	4.4
1	L	581	ASN	4.4
1	P	596	PRO	4.4
1	E	798	ALA	4.4
1	L	732	ALA	4.3
1	N	800	ARG	4.3
1	P	732	ALA	4.3
1	E	596	PRO	4.3
1	P	131	GLU	4.3
1	P	684	GLU	4.3
1	O	732	ALA	4.2
1	P	362	LEU	4.2
1	P	797	GLU	4.2

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Mol	Chain	Res	Type	RSRZ
1	M	76	CYS	4.2
1	E	799	THR	4.2
1	K	730	LEU	4.1
1	E	583	ASN	4.1
1	K	800	ARG	4.1
1	L	687	GLN	4.1
1	G	799	THR	4.1
1	I	580	GLU	4.1
1	P	735	HIS	4.1
1	D	580	GLU	4.0
1	P	580	GLU	4.0
1	D	731	PRO	4.0
1	E	321	THR	4.0
1	P	317	THR	4.0
1	P	360	HIS	3.9
1	M	249	GLU	3.9
1	P	149	ALA	3.9
1	E	131	GLU	3.9
1	J	580	GLU	3.9
1	L	79	PRO	3.9
1	A	582	GLY	3.9
1	H	582	GLY	3.9
1	I	800	ARG	3.9
1	I	732	ALA	3.9
1	A	131	GLU	3.9
1	K	581	ASN	3.9
1	M	135	GLN	3.8
1	K	798	ALA	3.8
1	L	731	PRO	3.8
1	F	689	GLU	3.8
1	M	582	GLY	3.8
1	P	178	ARG	3.8
1	P	585	TRP	3.7
1	A	733	ALA	3.7
1	M	320	GLY	3.6
1	N	135	GLN	3.6
1	E	76	CYS	3.6
1	L	745	MET	3.6
1	P	86	VAL	3.6
1	P	75	GLU	3.6
1	M	801	ILE	3.5
1	P	55	ASN	3.5

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Mol	Chain	Res	Type	RSRZ
1	P	687	GLN	3.5
1	H	75	GLU	3.5
1	I	801	ILE	3.5
1	M	93	HIS	3.5
1	M	800	ARG	3.5
1	P	160	GLY	3.4
1	N	744	GLU	3.4
1	C	689	GLU	3.4
1	M	131	GLU	3.4
1	K	745	MET	3.4
1	M	580	GLU	3.4
1	L	798	ALA	3.4
1	P	133	TRP	3.4
1	P	731	PRO	3.4
1	C	799	THR	3.4
1	L	800	ARG	3.4
1	C	580	GLU	3.4
1	B	582	GLY	3.4
1	O	593	GLY	3.3
1	M	246	MET	3.3
1	P	364	GLY	3.3
1	P	923	SER	3.3
1	M	180	GLY	3.3
1	P	68	ALA	3.3
1	G	731	PRO	3.3
1	E	582	GLY	3.3
1	O	581	ASN	3.3
1	P	143	PHE	3.2
1	P	45	ASP	3.2
1	P	801	ILE	3.2
1	P	581	ASN	3.2
1	G	800	ARG	3.2
1	P	81	ALA	3.2
1	D	583	ASN	3.2
1	M	583	ASN	3.2
1	O	800	ARG	3.2
1	B	687	GLN	3.2
1	K	799	THR	3.2
1	P	70	PRO	3.2
1	N	581	ASN	3.2
1	H	4	THR	3.2
1	A	682	LEU	3.1

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Mol	Chain	Res	Type	RSRZ
1	P	579	ASP	3.1
1	I	595	THR	3.1
1	K	772	ASP	3.1
1	P	733	ALA	3.1
1	B	689	GLU	3.1
1	H	801	ILE	3.1
1	P	584	PRO	3.1
1	B	800	ARG	3.1
1	E	65	ALA	3.1
1	M	799	THR	3.1
1	K	136	GLU	3.1
1	H	732	ALA	3.1
1	P	729	THR	3.1
1	N	583	ASN	3.1
1	P	264	GLU	3.1
1	P	135	GLN	3.1
1	G	730	LEU	3.0
1	P	689	GLU	3.0
1	P	361	PRO	3.0
1	L	76	CYS	3.0
1	H	800	ARG	3.0
1	F	732	ALA	3.0
1	J	799	THR	3.0
1	P	92	MET	3.0
1	D	733	ALA	3.0
1	K	736	ALA	3.0
1	P	97	ALA	3.0
1	J	689	GLU	3.0
1	J	800	ARG	3.0
1	E	731	PRO	3.0
1	H	580	GLU	3.0
1	L	761	GLN	3.0
1	K	595	THR	3.0
1	I	582	GLY	3.0
1	P	590	GLY	3.0
1	L	597	ASN	3.0
1	O	46	ARG	2.9
1	C	583	ASN	2.9
1	I	180	GLY	2.9
1	M	69	VAL	2.9
1	J	744	GLU	2.9
1	L	730	LEU	2.9

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Mol	Chain	Res	Type	RSRZ
1	P	204	ARG	2.9
1	P	111	PRO	2.9
1	E	75	GLU	2.9
1	L	131	GLU	2.9
1	M	10	VAL	2.9
1	M	114	VAL	2.9
1	H	733	ALA	2.9
1	N	180	GLY	2.9
1	G	689	GLU	2.9
1	P	325	ALA	2.9
1	P	137	GLY	2.9
1	H	799	THR	2.9
1	M	248	GLY	2.9
1	L	803	PRO	2.9
1	E	132	SER	2.8
1	C	744	GLU	2.8
1	M	237	ARG	2.8
1	D	1023	LYS	2.8
1	K	773	LYS	2.8
1	H	180	GLY	2.8
1	L	596	PRO	2.8
1	K	689	GLU	2.8
1	K	579	ASP	2.8
1	E	135	GLN	2.8
1	L	595	THR	2.8
1	M	175	ALA	2.8
1	P	277	GLU	2.8
1	P	175	ALA	2.8
1	H	135	GLN	2.8
1	M	116	THR	2.8
1	H	744	GLU	2.7
1	N	580	GLU	2.7
1	P	734	SER	2.7
1	E	745	MET	2.7
1	H	76	CYS	2.7
1	K	131	GLU	2.7
1	L	739	HIS	2.7
1	M	162	GLY	2.7
1	P	597	ASN	2.7
1	P	745	MET	2.7
1	E	249	GLU	2.7
1	L	370	GLN	2.7

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Mol	Chain	Res	Type	RSRZ
1	E	772	ASP	2.7
1	P	218	PRO	2.7
1	P	669	PRO	2.7
1	K	580	GLU	2.7
1	K	237	ARG	2.6
1	F	579	ASP	2.6
1	N	79	PRO	2.6
1	M	594	ASP	2.6
1	P	115	PRO	2.6
1	P	180	GLY	2.6
1	M	136	GLU	2.6
1	D	800	ARG	2.6
1	P	276	GLY	2.6
1	E	732	ALA	2.6
1	L	135	GLN	2.6
1	L	682	LEU	2.6
1	P	742	THR	2.6
1	K	583	ASN	2.6
1	P	316	HIS	2.6
1	L	81	ALA	2.5
1	M	733	ALA	2.5
1	P	56	GLY	2.5
1	A	799	THR	2.5
1	B	832	ASP	2.5
1	P	44	THR	2.5
1	P	608	PHE	2.5
1	J	798	ALA	2.5
1	A	319	ASP	2.5
1	F	730	LEU	2.5
1	P	128	ASN	2.5
1	E	136	GLU	2.5
1	I	593	GLY	2.5
1	P	582	GLY	2.5
1	E	173	LEU	2.5
1	A	732	ALA	2.5
1	P	405	TYR	2.5
1	P	249	GLU	2.5
1	I	799	THR	2.5
1	N	689	GLU	2.5
1	A	581	ASN	2.5
1	E	4	THR	2.5
1	L	4	THR	2.5

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Mol	Chain	Res	Type	RSRZ
1	P	95	TYR	2.5
1	P	730	LEU	2.4
1	K	80	GLU	2.4
1	O	131	GLU	2.4
1	O	687	GLN	2.4
1	P	236	SER	2.4
1	H	277	GLU	2.4
1	M	798	ALA	2.4
1	O	249	GLU	2.4
1	P	109	VAL	2.4
1	E	579	ASP	2.4
1	L	579	ASP	2.4
1	E	800	ARG	2.4
1	M	73	TRP	2.4
1	B	732	ALA	2.4
1	O	582	GLY	2.4
1	M	173	LEU	2.4
1	O	731	PRO	2.4
1	J	732	ALA	2.4
1	M	978	ALA	2.4
1	P	272	ALA	2.4
1	C	80	GLU	2.4
1	N	745	MET	2.4
1	L	578	TYR	2.4
1	M	253	TYR	2.4
1	P	221	GLN	2.4
1	P	84	VAL	2.4
1	N	799	THR	2.4
1	P	96	ASP	2.4
1	P	771	GLY	2.4
1	P	124	SER	2.4
1	K	135	GLN	2.4
1	A	596	PRO	2.4
1	J	745	MET	2.4
1	M	160	GLY	2.4
1	C	732	ALA	2.4
1	P	77	ASP	2.4
1	P	594	ASP	2.4
1	K	79	PRO	2.3
1	G	684	GLU	2.3
1	H	264	GLU	2.3
1	M	75	GLU	2.3

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Mol	Chain	Res	Type	RSRZ
1	P	327	ALA	2.3
1	E	801	ILE	2.3
1	L	594	ASP	2.3
1	O	579	ASP	2.3
1	D	745	MET	2.3
1	O	75	GLU	2.3
1	D	579	ASP	2.3
1	O	135	GLN	2.3
1	P	34	ALA	2.3
1	P	130	ASP	2.3
1	P	319	ASP	2.3
1	K	728	VAL	2.3
1	P	653[A]	HIS	2.3
1	E	819	GLU	2.3
1	G	580	GLU	2.3
1	P	136	GLU	2.3
1	H	730	LEU	2.3
1	M	7	LEU	2.3
1	P	152	LEU	2.3
1	I	733	ALA	2.3
1	M	977	HIS	2.3
1	F	799	THR	2.3
1	P	712	GLY	2.3
1	M	247	CYS	2.3
1	P	65	ALA	2.3
1	P	772	ASP	2.3
1	H	131	GLU	2.3
1	H	729	THR	2.3
1	J	180	GLY	2.3
1	M	321	THR	2.3
1	P	4	THR	2.3
1	M	579	ASP	2.3
1	D	799	THR	2.3
1	K	801	ILE	2.3
1	O	729	THR	2.3
1	L	744	GLU	2.2
1	M	6	SER	2.2
1	I	735	HIS	2.2
1	P	179	ALA	2.2
1	P	359	HIS	2.2
1	P	122	CYS	2.2
1	P	578	TYR	2.2

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Mol	Chain	Res	Type	RSRZ
1	O	730	LEU	2.2
1	P	184	LEU	2.2
1	D	596	PRO	2.2
1	K	319	ASP	2.2
1	P	710	GLU	2.2
1	I	579	ASP	2.2
1	M	128	ASN	2.2
1	K	185	ALA	2.2
1	M	370	GLN	2.2
1	O	745	MET	2.2
1	P	46	ARG	2.2
1	P	59	ARG	2.2
1	G	180	GLY	2.2
1	H	175	ALA	2.2
1	L	237	ARG	2.2
1	G	131	GLU	2.2
1	M	80	GLU	2.2
1	O	49	GLN	2.2
1	O	583	ASN	2.2
1	B	729	THR	2.2
1	L	132	SER	2.2
1	P	634	GLN	2.2
1	M	595	THR	2.2
1	M	689	GLU	2.2
1	A	800	ARG	2.2
1	M	152	LEU	2.1
1	M	219	THR	2.2
1	I	744	GLU	2.1
1	M	181	GLU	2.1
1	O	797	GLU	2.1
1	E	86	VAL	2.1
1	K	634	GLN	2.1
1	K	845	GLN	2.1
1	P	39	SER	2.1
1	G	582	GLY	2.1
1	M	593	GLY	2.1
1	E	46	ARG	2.1
1	G	249	GLU	2.1
1	E	81	ALA	2.1
1	I	135	GLN	2.1
1	M	319	ASP	2.1
1	G	729	THR	2.1

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Mol	Chain	Res	Type	RSRZ
1	P	7	LEU	2.1
1	P	177	LEU	2.1
1	M	361	PRO	2.1
1	O	136	GLU	2.1
1	E	66	PRO	2.1
1	I	797	GLU	2.1
1	H	253	TYR	2.1
1	M	578	TYR	2.1
1	P	266	GLN	2.1
1	G	733	ALA	2.1
1	E	74	LEU	2.1
1	M	4	THR	2.1
1	P	85	VAL	2.1
1	F	797	GLU	2.1
1	K	75	GLU	2.1
1	C	800	ARG	2.1
1	E	6	SER	2.1
1	N	582	GLY	2.1
1	L	797	GLU	2.1
1	P	217	LYS	2.1
1	G	745	MET	2.1
1	H	845	GLN	2.1
1	P	187	MET	2.1
1	M	599	ARG	2.1
1	D	593	GLY	2.1
1	P	609	ALA	2.1
1	E	7	LEU	2.1
1	E	78	LEU	2.1
1	E	55	ASN	2.1
1	J	731	PRO	2.1
1	M	66	PRO	2.1
1	M	179	ALA	2.1
1	P	707	ALA	2.1
1	M	687	GLN	2.0
1	M	704	ASN	2.0
1	O	799	THR	2.0
1	O	1023	LYS	2.0
1	P	222	ILE	2.0
1	L	75	GLU	2.0
1	D	735	HIS	2.0
1	M	735	HIS	2.0
1	D	582	GLY	2.0

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Mol	Chain	Res	Type	RSRZ
1	E	761	GLN	2.0
1	D	595	THR	2.0
1	E	84	VAL	2.0
1	P	612	THR	2.0
1	M	731	PRO	2.0
1	O	237	ARG	2.0
1	P	47	PRO	2.0
1	H	745	MET	2.0
1	P	141	ILE	2.0
1	I	179	ALA	2.0
1	P	35	SER	2.0
1	I	731	PRO	2.0
1	H	370	GLN	2.0
1	G	734	SER	2.0
1	P	281	GLU	2.0
1	E	595	THR	2.0
1	M	267	VAL	2.0
1	A	579	ASP	2.0
1	H	79	PRO	2.0
1	H	772	ASP	2.0

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

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å ²)	Q<0.9
1	CME	H	914	10/11	0.95	0.15	-	33,40,77,82	0
1	CME	H	748	10/11	0.92	0.21	-	46,58,92,100	0
1	CME	E	1021	10/11	0.88	0.20	-	60,76,100,100	0
1	CME	J	914	10/11	0.96	0.14	-	25,32,69,75	0
1	CME	L	914	10/11	0.94	0.15	-	40,47,84,89	0
1	CME	C	1021	10/11	0.90	0.15	-	33,49,84,97	0
1	CME	K	748	10/11	0.91	0.19	-	53,65,98,100	0
1	CME	A	1021	10/11	0.89	0.19	-	35,50,85,99	0
1	CME	F	1021	10/11	0.89	0.17	-	40,56,91,100	0
1	CME	P	914	10/11	0.84	0.22	-	54,62,98,100	0
1	CME	J	1021	10/11	0.87	0.22	-	42,58,93,100	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
1	CME	C	748	10/11	0.92	0.19	-	29,41,74,86	0
1	CME	A	748	10/11	0.93	0.19	-	31,43,76,87	0
1	CME	J	748	10/11	0.92	0.16	-	38,50,84,95	0
1	CME	B	748	10/11	0.92	0.17	-	29,41,75,86	0
1	CME	E	914	10/11	0.92	0.19	-	42,50,87,92	0
1	CME	I	748	10/11	0.92	0.17	-	40,52,85,97	0
1	CME	D	1021	10/11	0.91	0.19	-	43,58,93,100	0
1	CME	K	1021	10/11	0.90	0.21	-	57,73,100,100	0
1	CME	H	1021	10/11	0.87	0.20	-	50,66,100,100	0
1	CME	D	914	10/11	0.96	0.14	-	25,33,69,75	0
1	CME	L	748	10/11	0.90	0.20	-	53,65,99,100	0
1	CME	E	748	10/11	0.93	0.25	-	56,68,100,100	0
1	CME	N	1021	10/11	0.87	0.18	-	48,64,99,100	0
1	CME	M	914	10/11	0.91	0.16	-	42,50,86,92	0
1	CME	F	748	10/11	0.92	0.19	-	36,48,81,93	0
1	CME	O	914	10/11	0.95	0.13	-	36,44,80,86	0
1	CME	I	914	10/11	0.95	0.13	-	26,34,70,76	0
1	CME	O	748	10/11	0.86	0.33	-	50,62,95,100	0
1	CME	B	1021	10/11	0.87	0.25	-	33,49,84,97	0
1	CME	G	1021	10/11	0.93	0.17	-	41,56,91,100	0
1	CME	A	914	10/11	0.94	0.17	-	17,25,61,67	0
1	CME	F	914	10/11	0.96	0.13	-	23,30,67,72	0
1	CME	O	1021	10/11	0.92	0.21	-	54,69,100,100	0
1	CME	P	1021	10/11	0.81	0.32	-	72,87,100,100	0
1	CME	N	748	10/11	0.91	0.24	-	44,56,90,100	0
1	CME	L	1021	10/11	0.88	0.16	-	57,73,100,100	0
1	CME	N	914	10/11	0.97	0.12	-	31,38,75,81	0
1	CME	G	914	10/11	0.96	0.10	-	23,31,67,73	0
1	CME	I	1021	10/11	0.94	0.15	-	44,60,94,100	0
1	CME	D	748	10/11	0.92	0.20	-	39,51,84,95	0
1	CME	K	914	10/11	0.94	0.12	-	40,47,84,89	0
1	CME	M	1021	10/11	0.90	0.17	-	60,75,100,100	0
1	CME	B	914	10/11	0.96	0.12	-	16,23,60,66	0
1	CME	G	748	10/11	0.91	0.18	-	37,48,82,93	0
1	CME	M	748	10/11	0.89	0.26	-	56,68,100,100	0
1	CME	P	748	10/11	0.85	0.25	-	68,80,100,100	0
1	CME	C	914	10/11	0.97	0.10	-	16,23,60,65	0

6.3 Carbohydrates ⓘ

There are no carbohydrates in this entry.

6.4 Ligands ⓘ

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å ²)	Q<0.9
3	MG	G	2002	1/1	0.96	0.27	8.68	29,29,29,29	0
3	MG	B	2002	1/1	0.99	0.23	8.55	22,22,22,22	0
4	NA	E	2004	1/1	0.82	0.37	6.47	55,55,55,55	0
3	MG	F	2002	1/1	0.98	0.22	5.77	29,29,29,29	0
2	2FL	K	2001	23/23	0.86	0.27	5.56	63,74,91,100	0
2	2FL	O	2001	23/23	0.85	0.24	5.27	59,70,87,100	0
4	NA	O	2005	1/1	0.86	0.16	4.77	37,37,37,37	0
3	MG	C	2002	1/1	0.95	0.22	4.69	22,22,22,22	0
4	NA	M	2004	1/1	0.72	0.32	4.66	55,55,55,55	0
3	MG	N	2002	1/1	0.98	0.19	4.48	37,37,37,37	0
4	NA	J	2004	1/1	0.85	0.20	4.44	38,38,38,38	0
2	2FL	H	2001	23/23	0.84	0.28	4.33	56,67,84,100	0
3	MG	O	2002	1/1	0.98	0.25	4.15	42,42,42,42	0
3	MG	H	2002	1/1	0.97	0.26	3.93	39,39,39,39	0
4	NA	F	2005	1/1	0.89	0.13	3.83	23,23,23,23	0
2	2FL	G	2001	23/23	0.91	0.18	3.79	46,57,74,97	0
4	NA	N	2005	1/1	0.98	0.16	3.55	31,31,31,31	0
4	NA	J	2005	1/1	0.91	0.17	3.53	25,25,25,25	0
2	2FL	F	2001	23/23	0.90	0.19	3.51	46,57,74,96	0
2	2FL	L	2001	23/23	0.84	0.29	3.47	63,74,91,100	0
4	NA	P	2004	1/1	0.40	0.36	3.33	67,67,67,67	0
2	2FL	J	2001	23/23	0.89	0.21	3.13	48,59,76,99	0
4	NA	B	2005	1/1	0.95	0.12	3.05	16,16,16,16	0
2	2FL	C	2001	23/23	0.88	0.21	2.99	39,50,67,89	0
2	2FL	B	2001	23/23	0.91	0.16	2.84	39,50,67,90	0
4	NA	K	2004	1/1	0.90	0.21	2.77	53,53,53,53	0
2	2FL	E	2001	23/23	0.90	0.21	2.38	66,77,94,100	0
3	MG	I	2002	1/1	0.98	0.22	2.35	32,32,32,32	0
2	2FL	D	2001	23/23	0.93	0.21	2.21	48,60,76,99	0
3	MG	D	2002	1/1	0.95	0.18	2.09	31,31,31,31	0
4	NA	L	2004	1/1	0.83	0.25	2.06	53,53,53,53	0
2	2FL	A	2001	23/23	0.91	0.16	1.83	40,52,68,91	0
2	2FL	N	2001	23/23	0.92	0.17	1.61	54,65,82,100	0
3	MG	E	2002	1/1	0.96	0.21	1.56	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
3	MG	L	2002	1/1	0.95	0.20	1.25	46,46,46,46	0
4	NA	L	2005	1/1	0.95	0.15	1.10	40,40,40,40	0
4	NA	O	2004	1/1	0.91	0.17	1.00	49,49,49,49	0
2	2FL	P	2001	23/23	0.84	0.26	0.99	77,89,100,100	0
3	MG	K	2002	1/1	0.98	0.17	0.95	45,45,45,45	0
3	MG	A	2003	1/1	0.98	0.16	0.93	16,16,16,16	0
4	NA	E	2005	1/1	0.94	0.18	0.82	43,43,43,43	0
4	NA	I	2005	1/1	0.93	0.13	0.66	27,27,27,27	0
4	NA	D	2005	1/1	0.85	0.13	0.59	26,26,26,26	0
4	NA	C	2004	1/1	0.97	0.14	0.56	29,29,29,29	0
4	NA	G	2005	1/1	0.93	0.11	0.48	24,24,24,24	0
4	NA	H	2004	1/1	0.89	0.18	0.47	46,46,46,46	0
4	NA	G	2004	1/1	0.95	0.13	0.36	36,36,36,36	0
3	MG	P	2002	1/1	0.91	0.24	0.29	60,60,60,60	0
2	2FL	I	2001	23/23	0.93	0.16	0.29	49,61,78,100	0
4	NA	H	2005	1/1	0.96	0.13	0.27	33,33,33,33	0
3	MG	I	2003	1/1	0.94	0.14	0.23	26,26,26,26	0
3	MG	J	2003	1/1	0.88	0.14	0.20	24,24,24,24	0
3	MG	M	2003	1/1	0.95	0.23	0.19	41,41,41,41	0
2	2FL	M	2001	23/23	0.88	0.20	0.10	65,77,93,100	0
4	NA	A	2005	1/1	0.81	0.09	0.05	18,18,18,18	0
4	NA	D	2004	1/1	0.89	0.13	0.03	38,38,38,38	0
4	NA	P	2005	1/1	0.80	0.16	-0.20	55,55,55,55	0
3	MG	O	2003	1/1	0.94	0.14	-0.32	35,35,35,35	0
3	MG	G	2003	1/1	0.88	0.12	-0.33	22,22,22,22	0
4	NA	N	2004	1/1	0.94	0.13	-0.50	44,44,44,44	0
4	NA	F	2004	1/1	0.94	0.12	-0.58	36,36,36,36	0
4	NA	A	2004	1/1	0.92	0.10	-0.82	30,30,30,30	0
3	MG	F	2003	1/1	0.89	0.11	-0.88	22,22,22,22	0
3	MG	K	2003	1/1	0.94	0.13	-1.04	39,39,39,39	0
3	MG	J	2002	1/1	0.97	0.10	-1.06	31,31,31,31	0
3	MG	C	2003	1/1	0.94	0.09	-1.10	15,15,15,15	0
3	MG	M	2002	1/1	0.93	0.15	-1.16	48,48,48,48	0
3	MG	A	2002	1/1	0.98	0.09	-1.20	23,23,23,23	0
4	NA	M	2005	1/1	0.88	0.11	-1.23	43,43,43,43	0
3	MG	E	2003	1/1	0.87	0.14	-1.42	42,42,42,42	0
3	MG	B	2003	1/1	0.94	0.09	-1.59	15,15,15,15	0
4	NA	K	2005	1/1	0.96	0.08	-1.74	40,40,40,40	0
3	MG	L	2003	1/1	0.93	0.11	-1.82	39,39,39,39	0
4	NA	I	2004	1/1	0.97	0.09	-2.06	39,39,39,39	0
3	MG	P	2003	1/1	0.71	0.15	-2.59	53,53,53,53	0
3	MG	N	2003	1/1	0.81	0.09	-2.63	30,30,30,30	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
3	MG	D	2003	1/1	0.94	0.07	-3.01	24,24,24,24	0
4	NA	B	2004	1/1	0.98	0.09	-3.31	29,29,29,29	0
3	MG	H	2003	1/1	0.94	0.09	-3.45	32,32,32,32	0
4	NA	C	2005	1/1	0.92	0.08	-5.51	16,16,16,16	0

6.5 Other polymers [i](#)

There are no such residues in this entry.