



# Full wwPDB X-ray Structure Validation Report

Jun 16, 2014 – 08:19 PM BST

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 validation report for a publicly released PDB entry.  
We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)  
A user guide is available at <http://wwpdb.org/ValidationPDFNotes.html>

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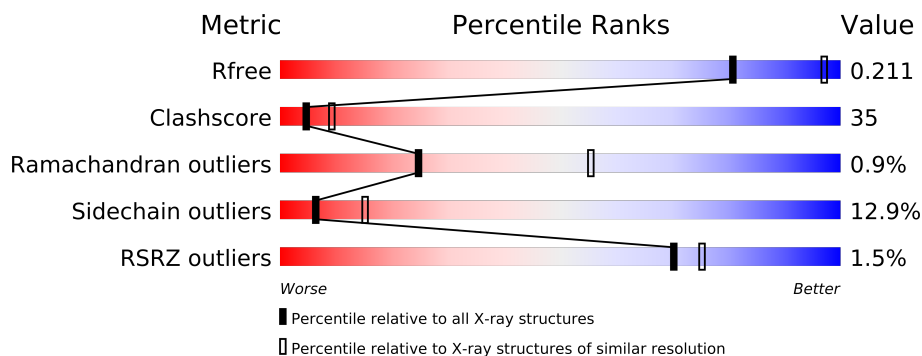
The following versions of software and data (see [references](#)) were used in the production of this report:

MolProbity : 4.02b-467  
Mogul : 1.16 November 2013  
Xtriage (Phenix) : dev-1323  
EDS : stable23397  
Percentile statistics : 21963  
Refmac : 5.8.0049  
CCP4 : 6.3.0 (Settle)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)  
Validation Pipeline (wwPDB-VP) : stable23397

# 1 Overall quality at a glance

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.



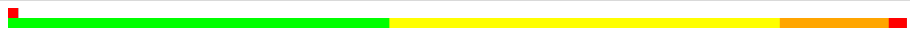
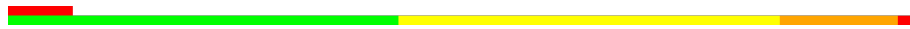
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
$R_{free}$	66092	1557 (2.70-2.70)
Clashscore	79885	1939 (2.70-2.70)
Ramachandran outliers	78287	1905 (2.70-2.70)
Sidechain outliers	78261	1905 (2.70-2.70)
RSRZ outliers	66119	1559 (2.70-2.70)

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  $\geq 3$ , 2, 1 and 0 types of geometric quality criteria. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density.

Mol	Chain	Length	Quality of chain
1	A	1023	
1	B	1023	
1	C	1023	
1	D	1023	
1	E	1023	
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	

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Mol	Chain	Length	Quality of chain
1	O	1023	
1	P	1023	

The following table lists non-polymeric compounds that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Geometry	Electron density
2	2FL	A	2001	-	X
2	2FL	B	2001	-	X
2	2FL	C	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
2	2FL	P	2001	-	X
3	MG	B	2002	-	X
3	MG	C	2002	-	X
3	MG	F	2002	-	X
3	MG	G	2002	-	X
3	MG	H	2002	-	X
3	MG	K	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	H	2004	-	X
4	NA	J	2004	-	X
4	NA	J	2005	-	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 hydrogen and 0 are deuterium.

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:

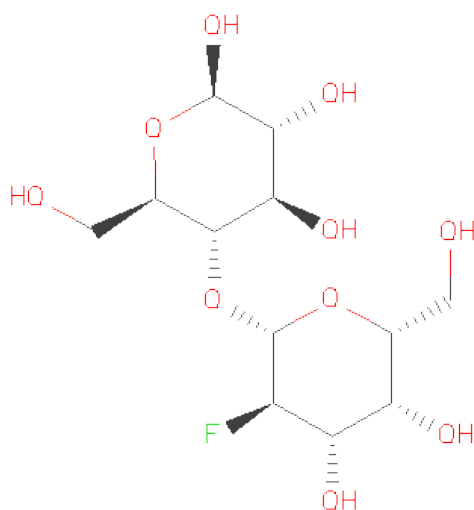
Chain	Residue	Modelled	Actual	Comment	Reference
A	748	CME	CYS	MODIFIED RESIDUE	UNP P00722
A	914	CME	CYS	MODIFIED RESIDUE	UNP P00722
A	1021	CME	CYS	MODIFIED RESIDUE	UNP P00722
B	748	CME	CYS	MODIFIED RESIDUE	UNP P00722
B	914	CME	CYS	MODIFIED RESIDUE	UNP P00722
B	1021	CME	CYS	MODIFIED RESIDUE	UNP P00722
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: C<sub>12</sub>H<sub>21</sub>FO<sub>10</sub>).



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

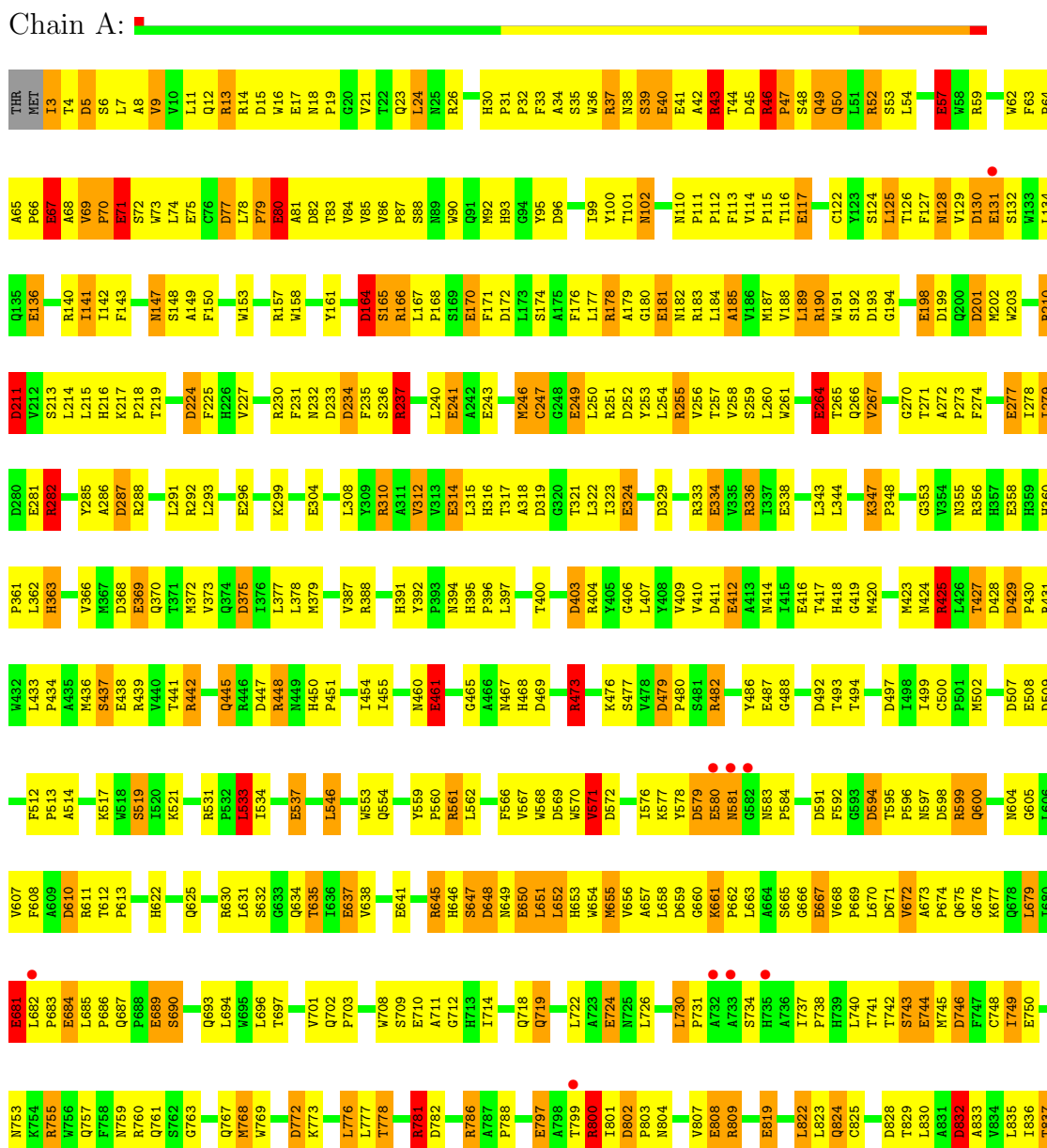
- Molecule 5 is water.

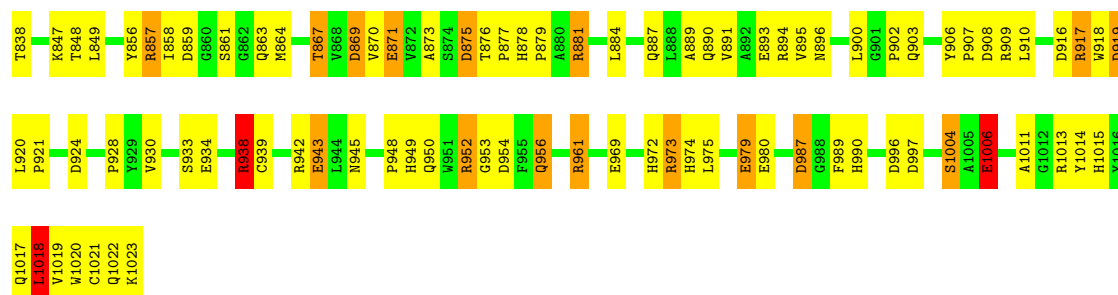
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	160	Total 160	O 160	0	0
5	B	163	Total 163	O 163	0	0
5	C	162	Total 162	O 162	0	0
5	D	163	Total 163	O 163	0	0
5	E	162	Total 162	O 162	0	0
5	F	162	Total 162	O 162	0	0
5	G	162	Total 162	O 162	0	0
5	H	162	Total 162	O 162	0	0
5	I	162	Total 162	O 162	0	0
5	J	162	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.

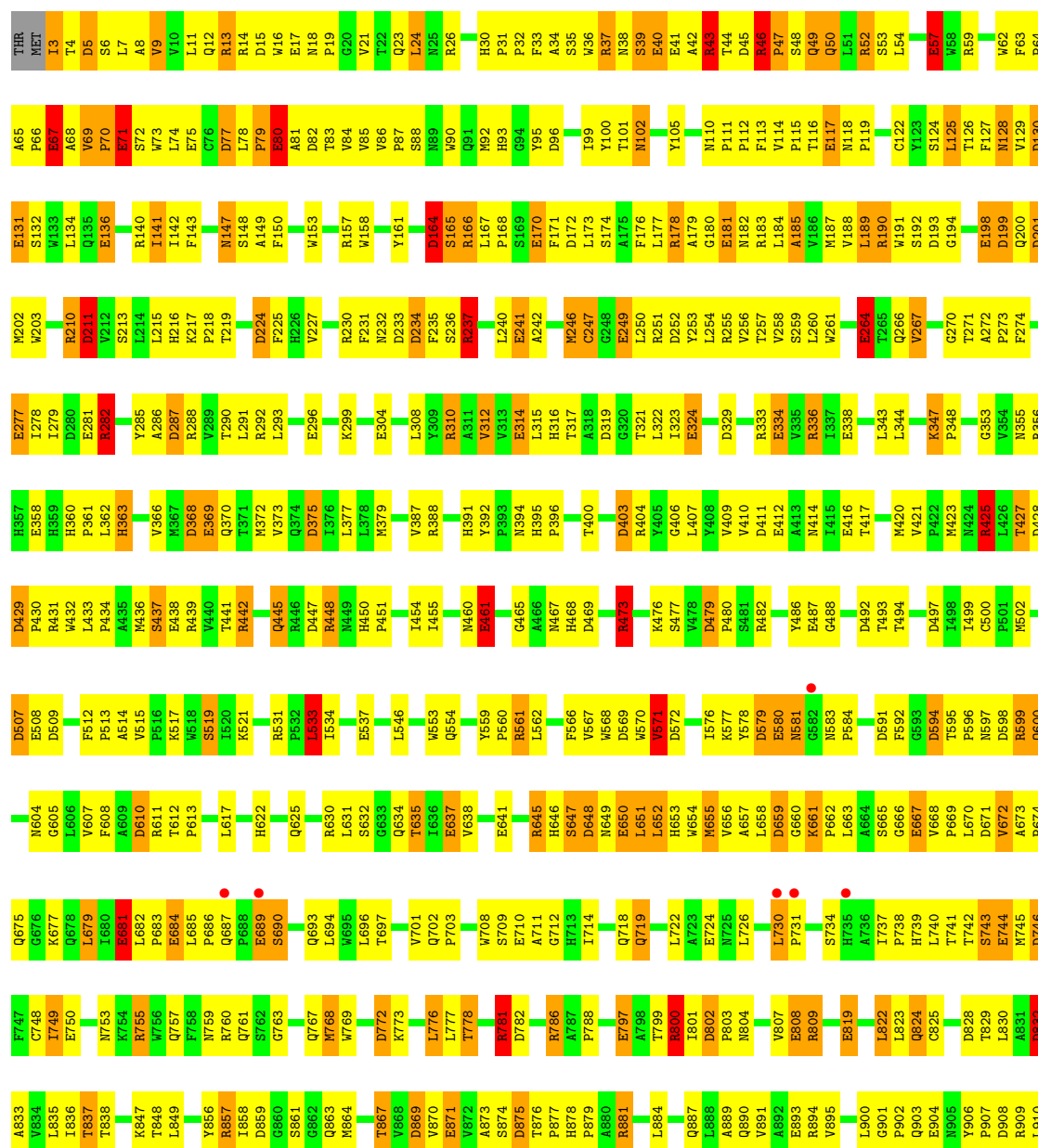
#### • Molecule 1: Beta-Galactosidase

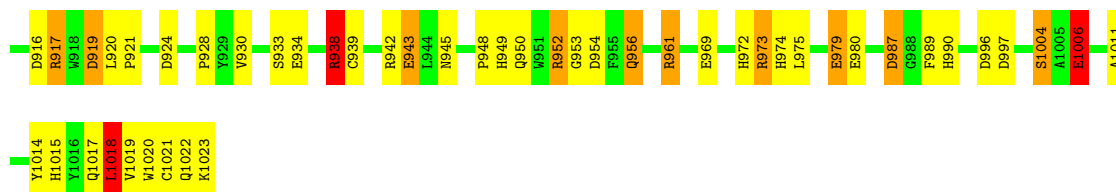




# Molecule 1: Beta-Galactosidase

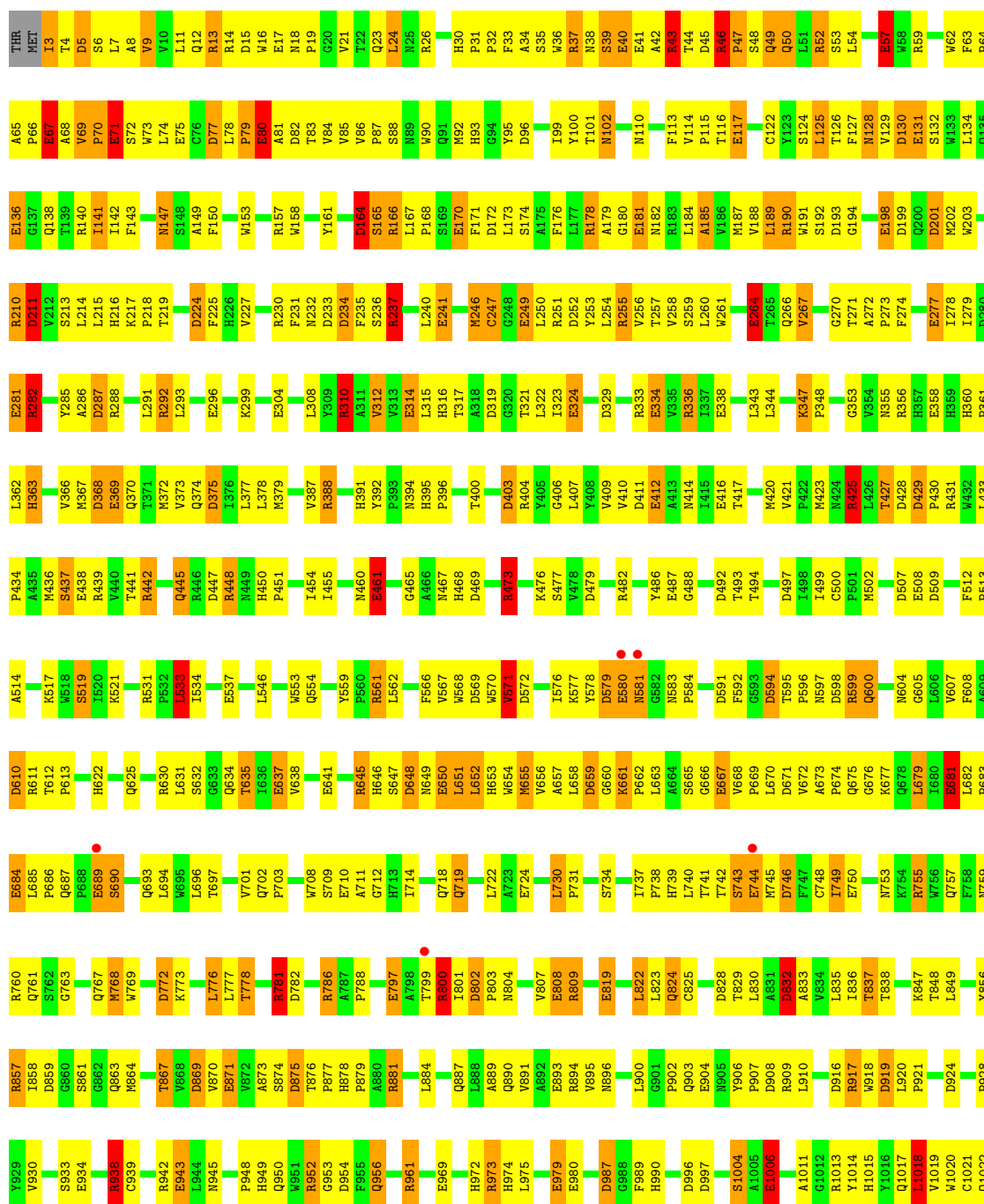
Chain B:





• Molecule 1: Beta-Galactosidase

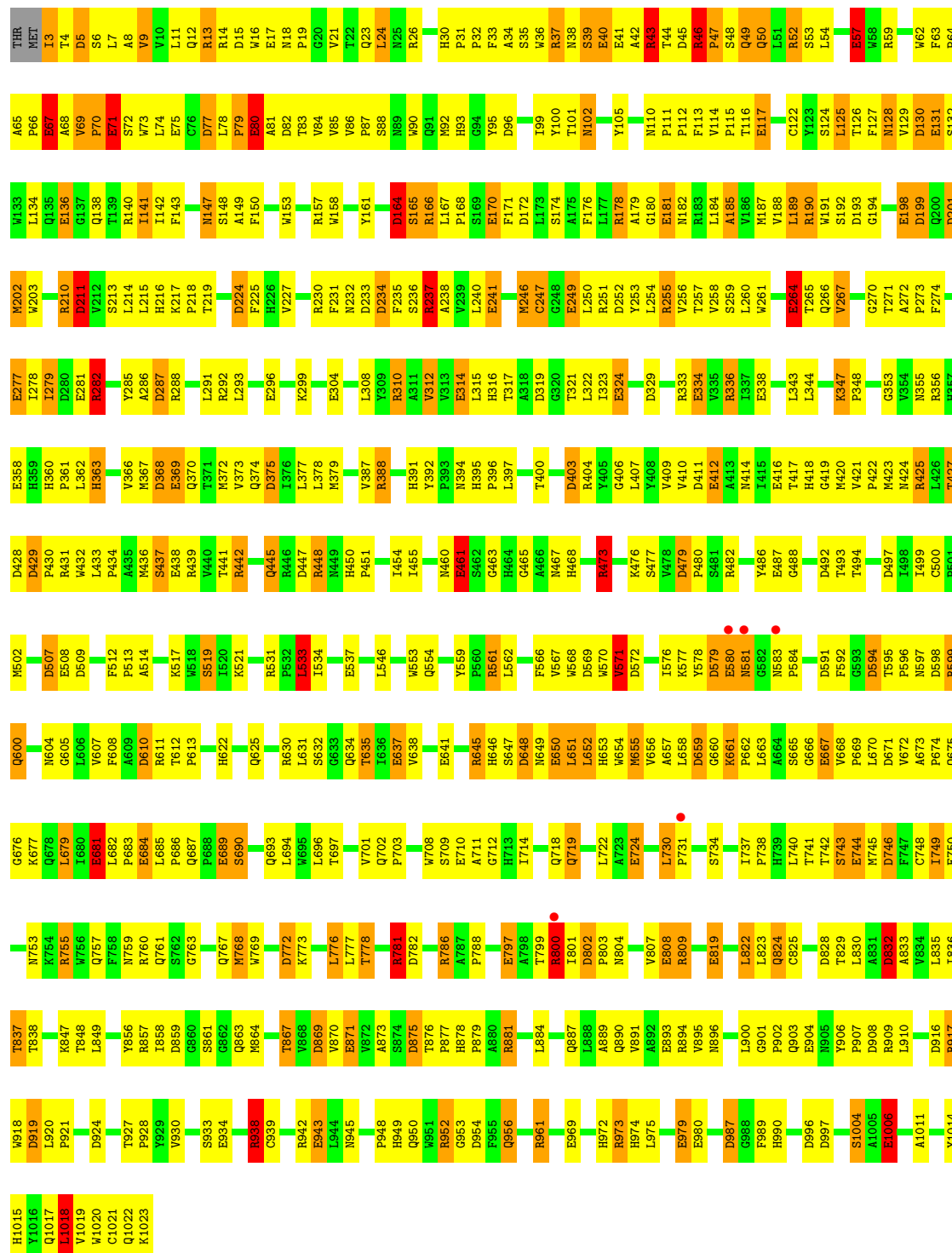
Chain C:



K1023

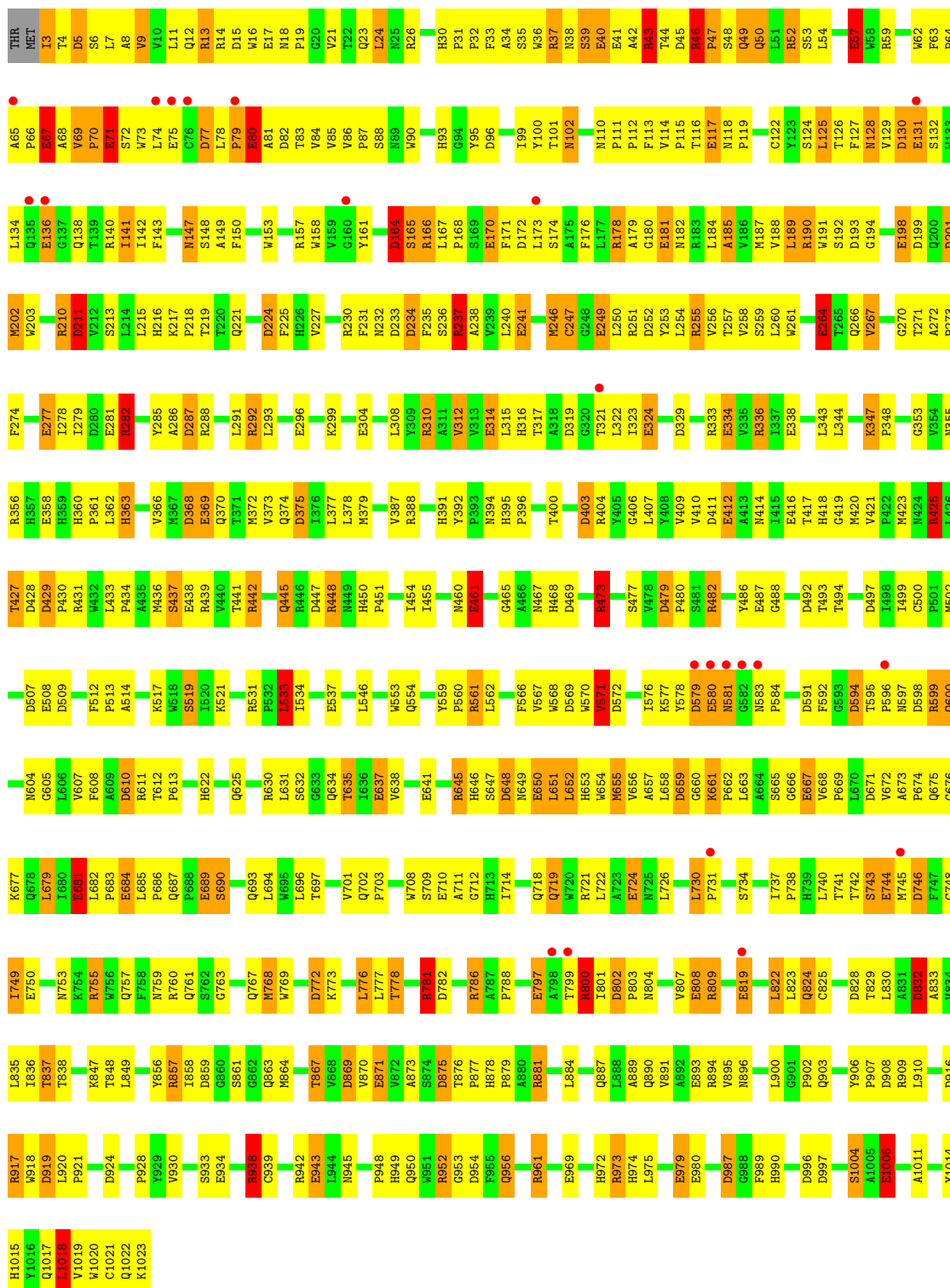
- Molecule 1: Beta-Galactosidase

Chain D:



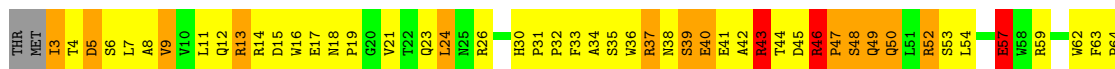
- Molecule 1: Beta-Galactosidase

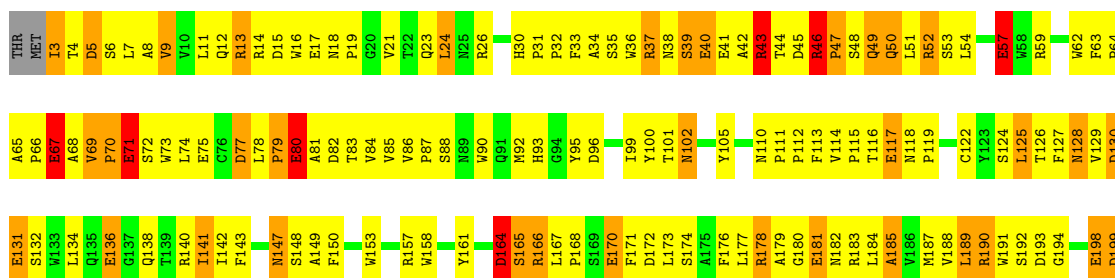
## Chain E:



- Molecule 1: Beta-Galactosidase

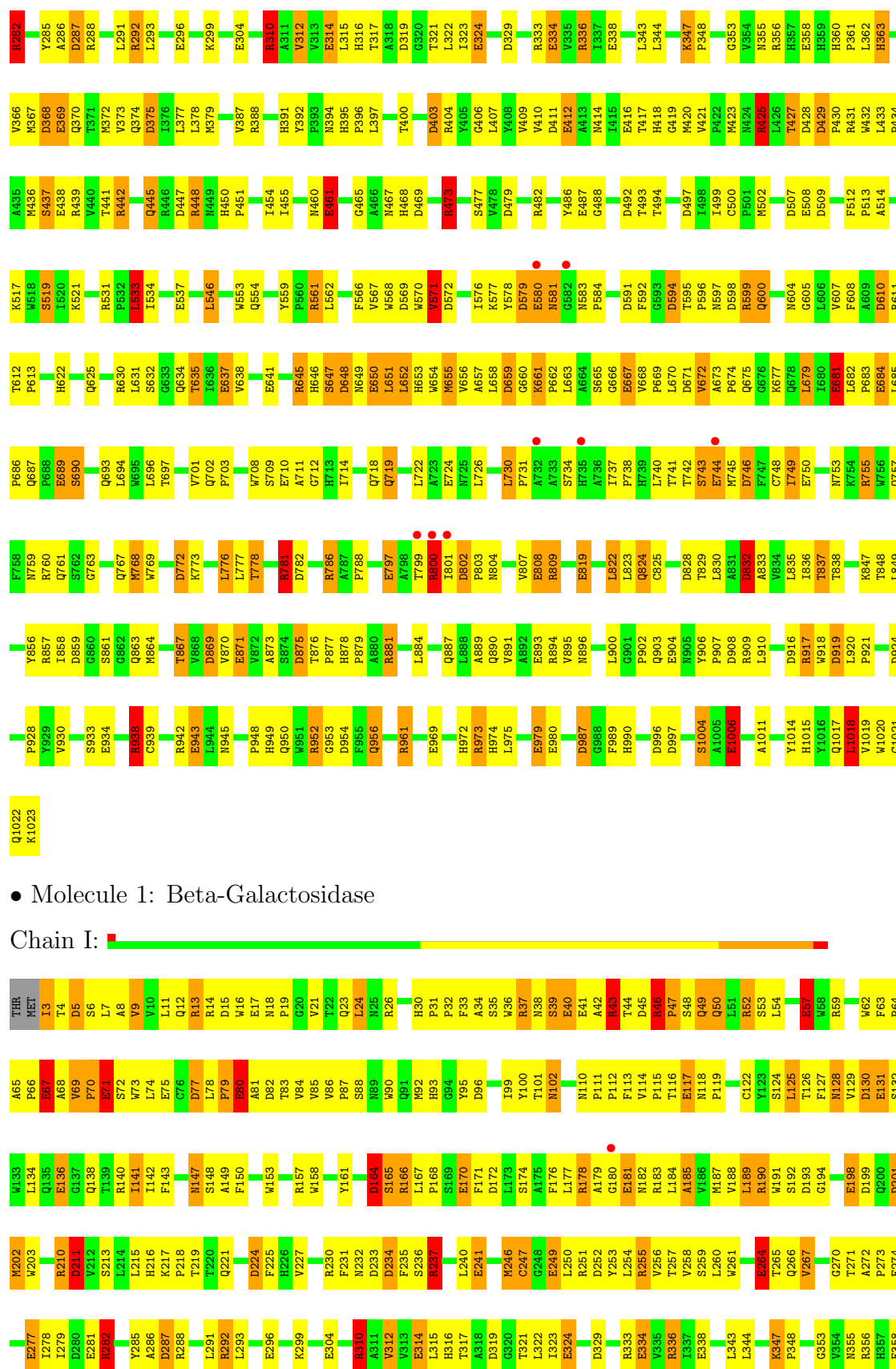
## Chain F:

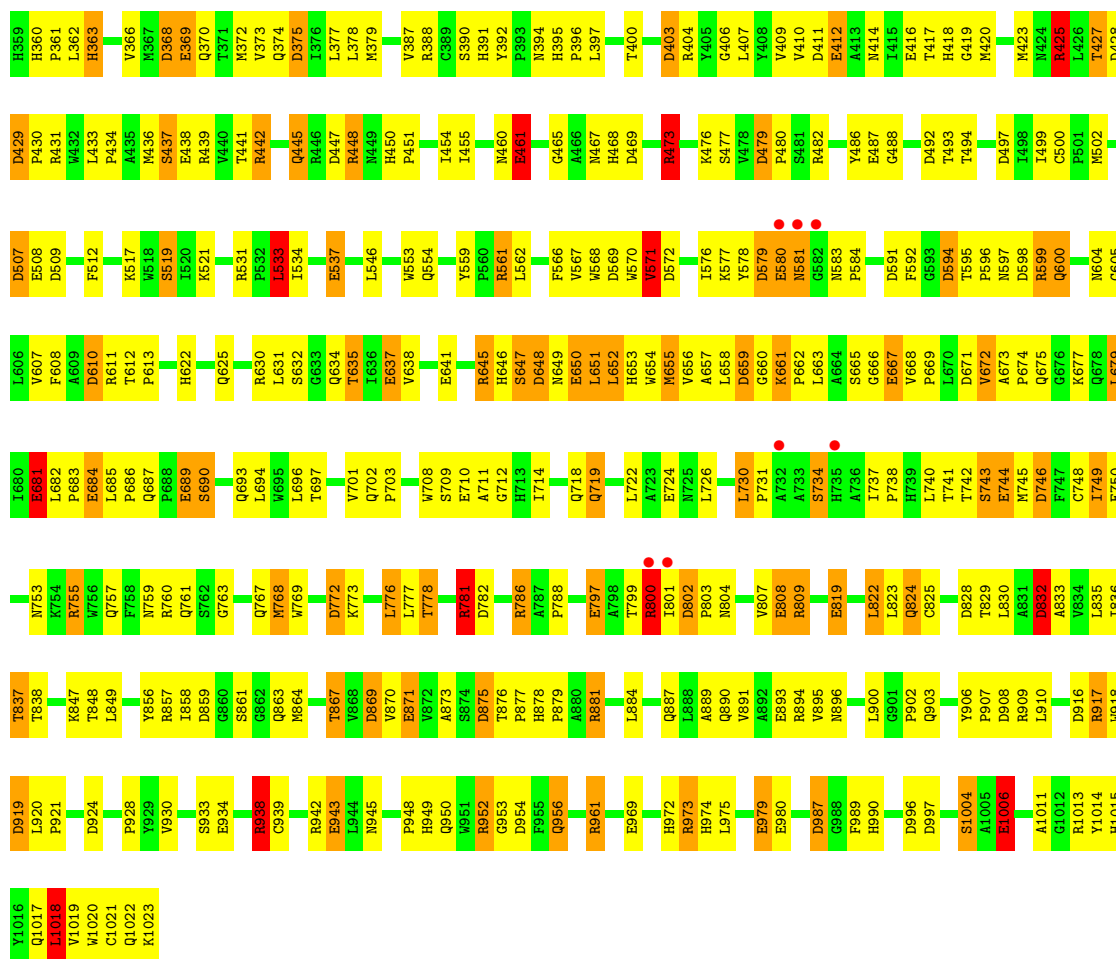






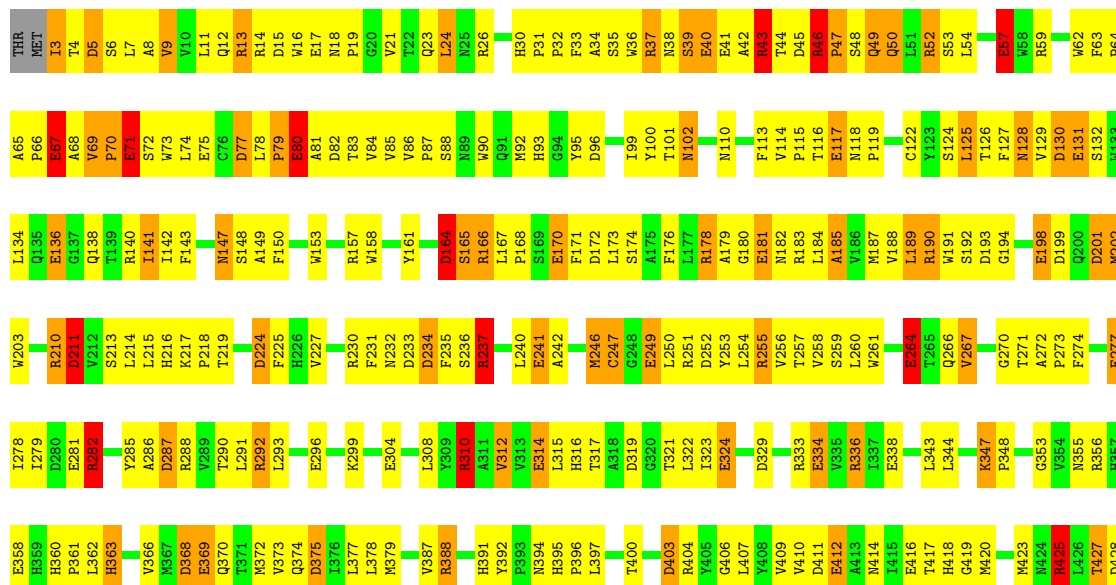


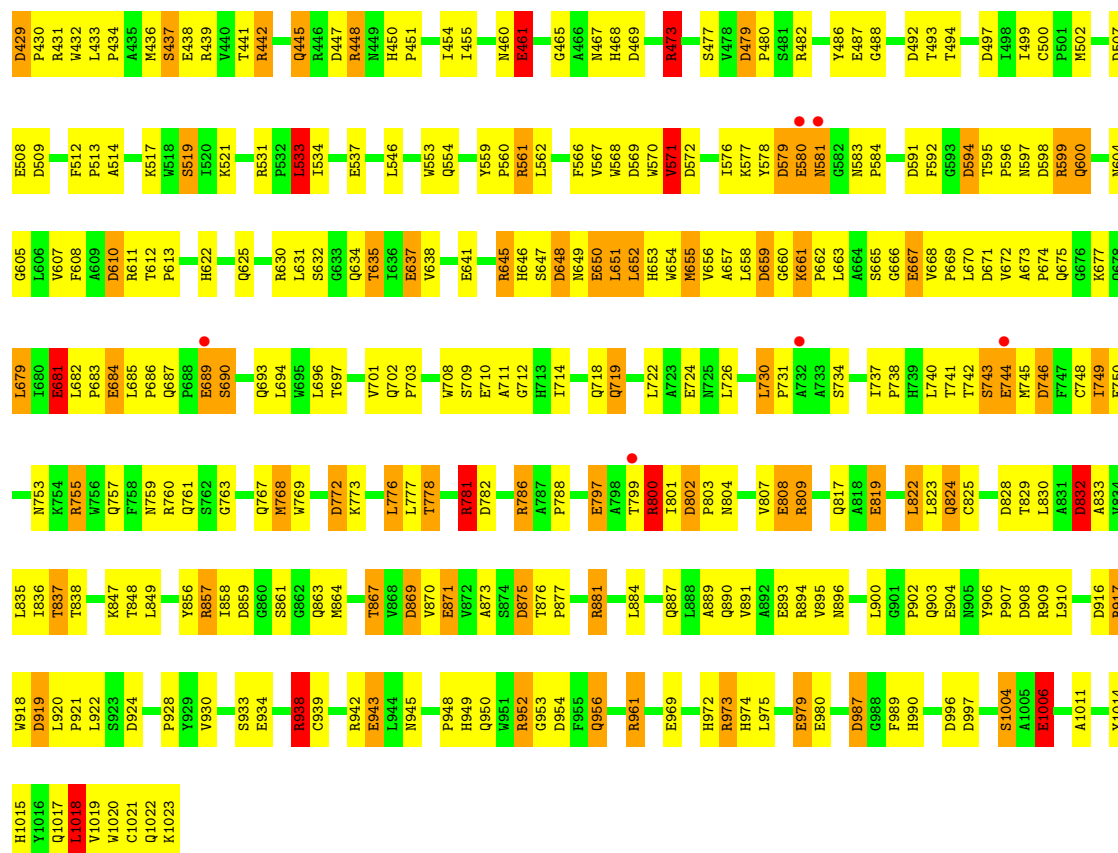




• Molecule 1: Beta-Galactosidase

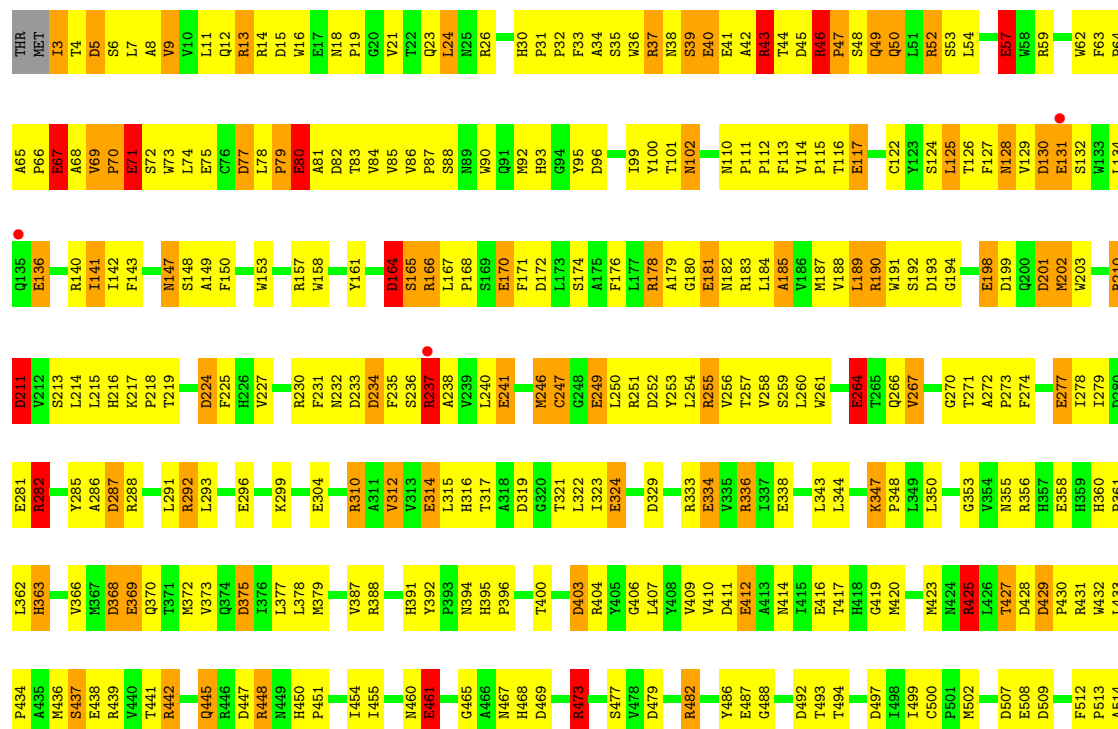
Chain J:



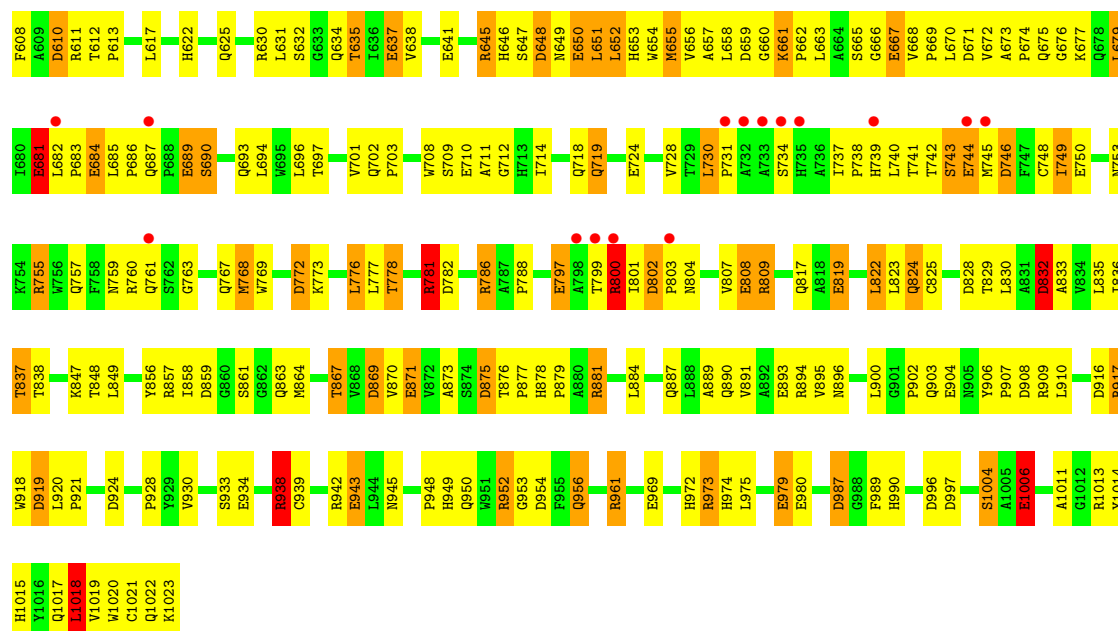


# Molecule 1: Beta-Galactosidase

Chain K:

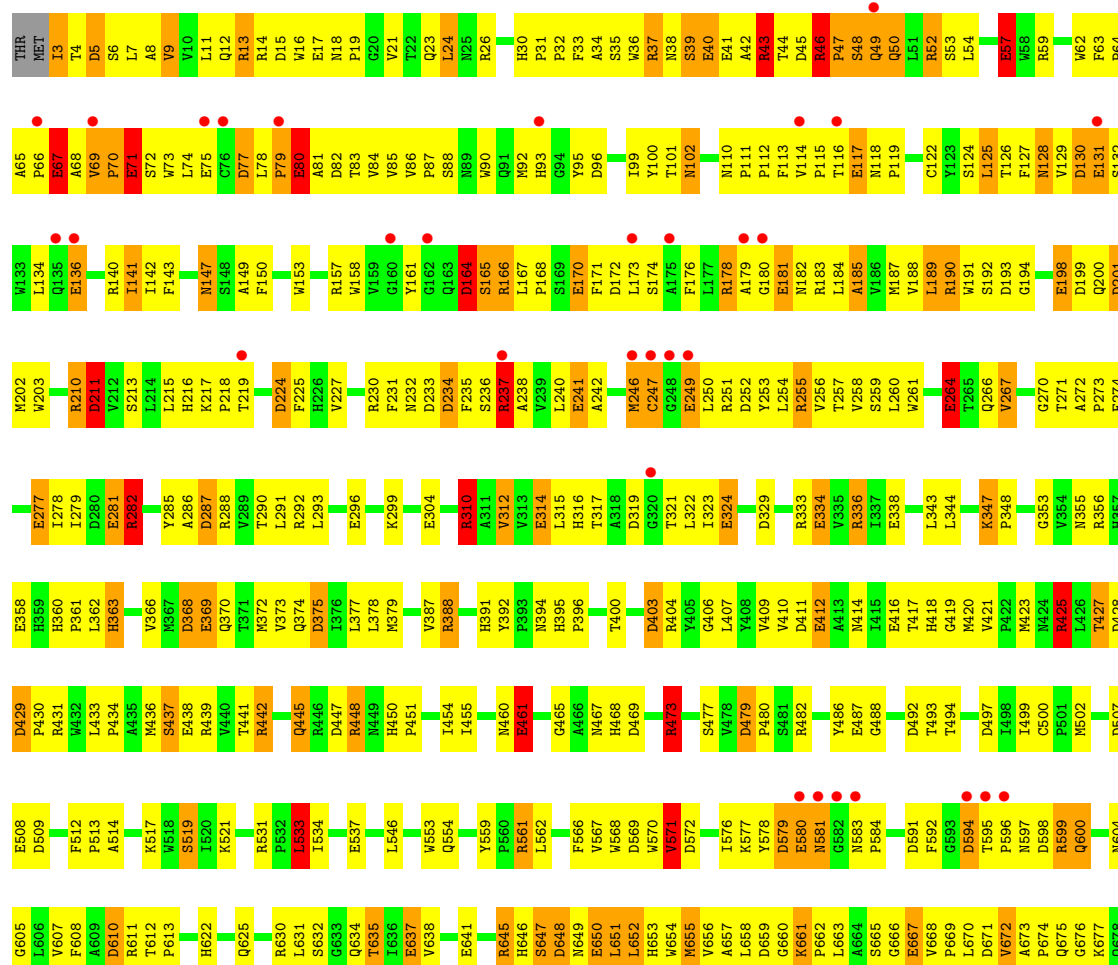


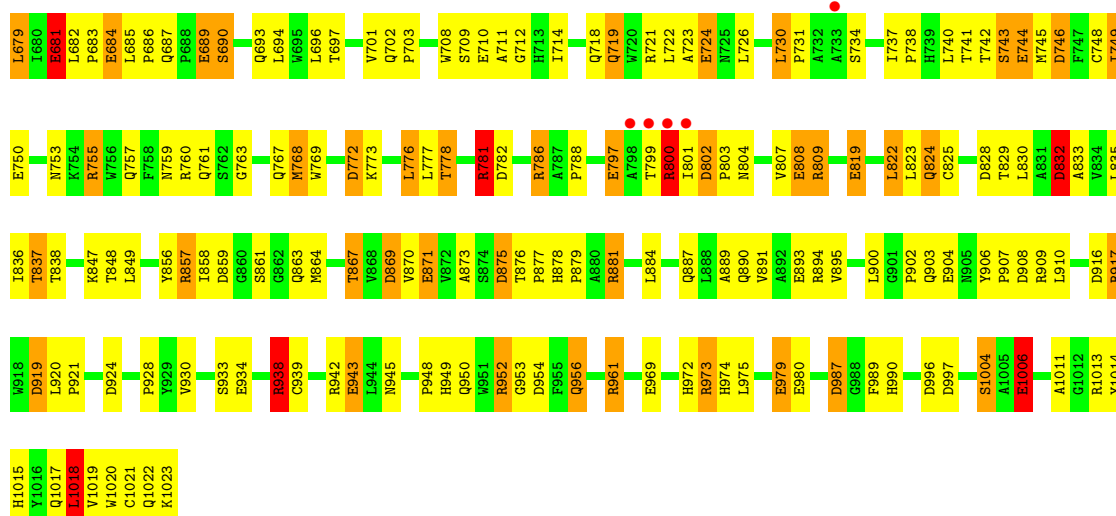




• Molecule 1: Beta-Galactosidase

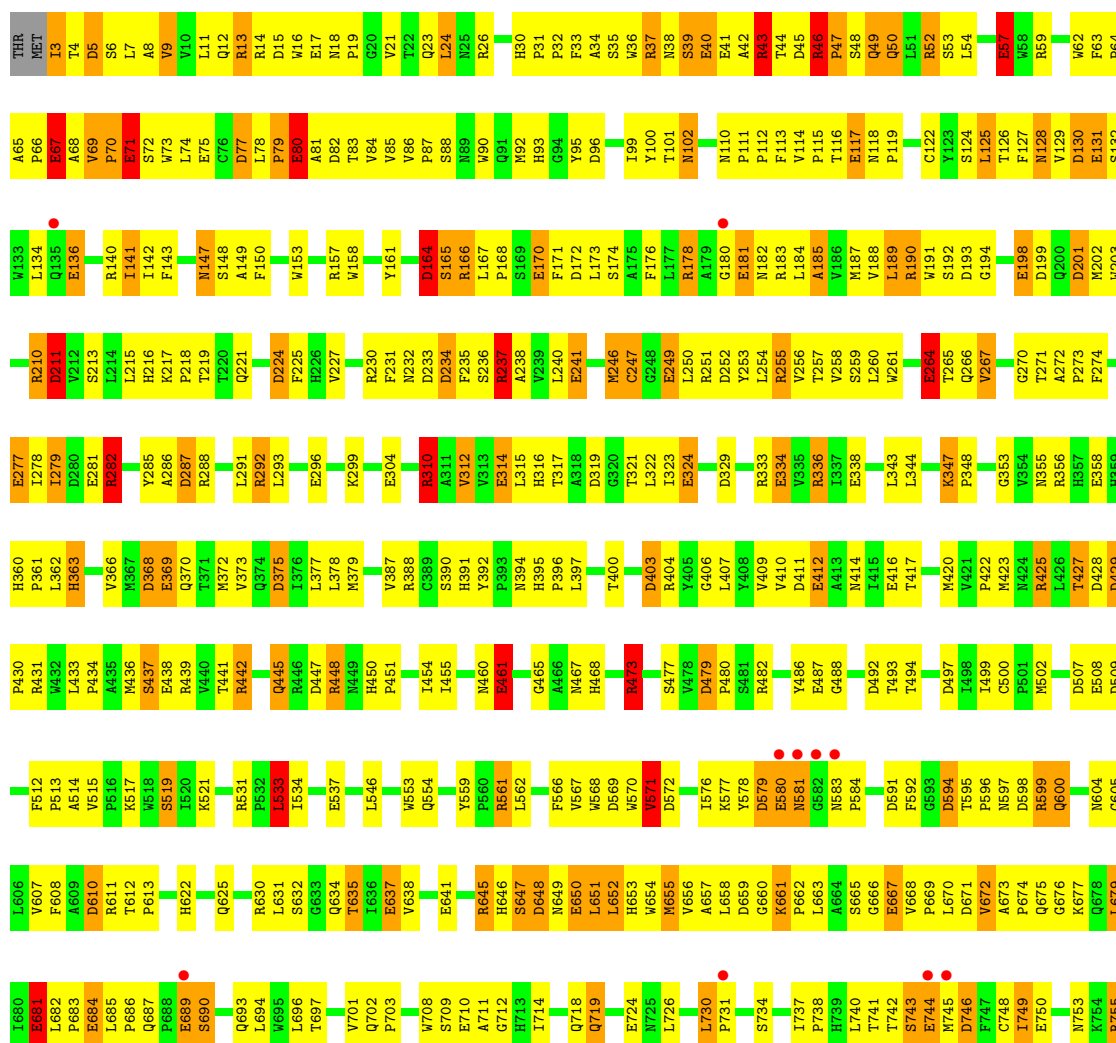
Chain M:

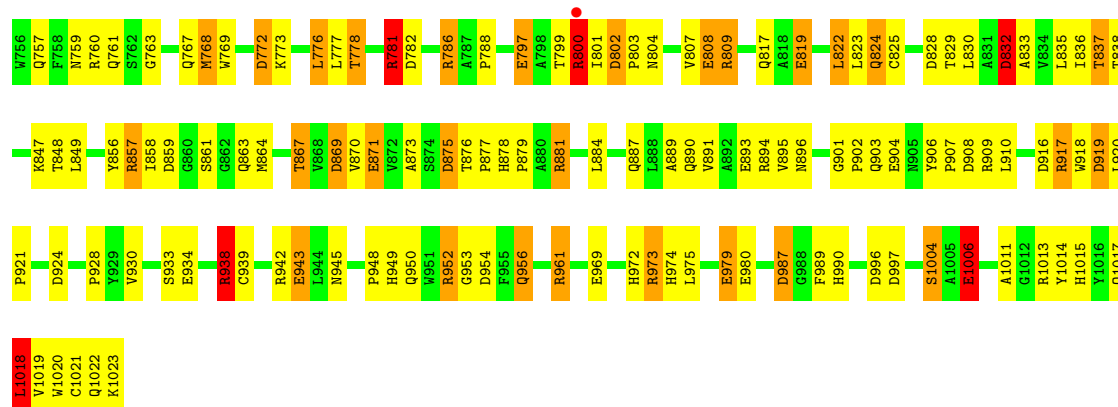




### • Molecule 1: Beta-Galactosidase

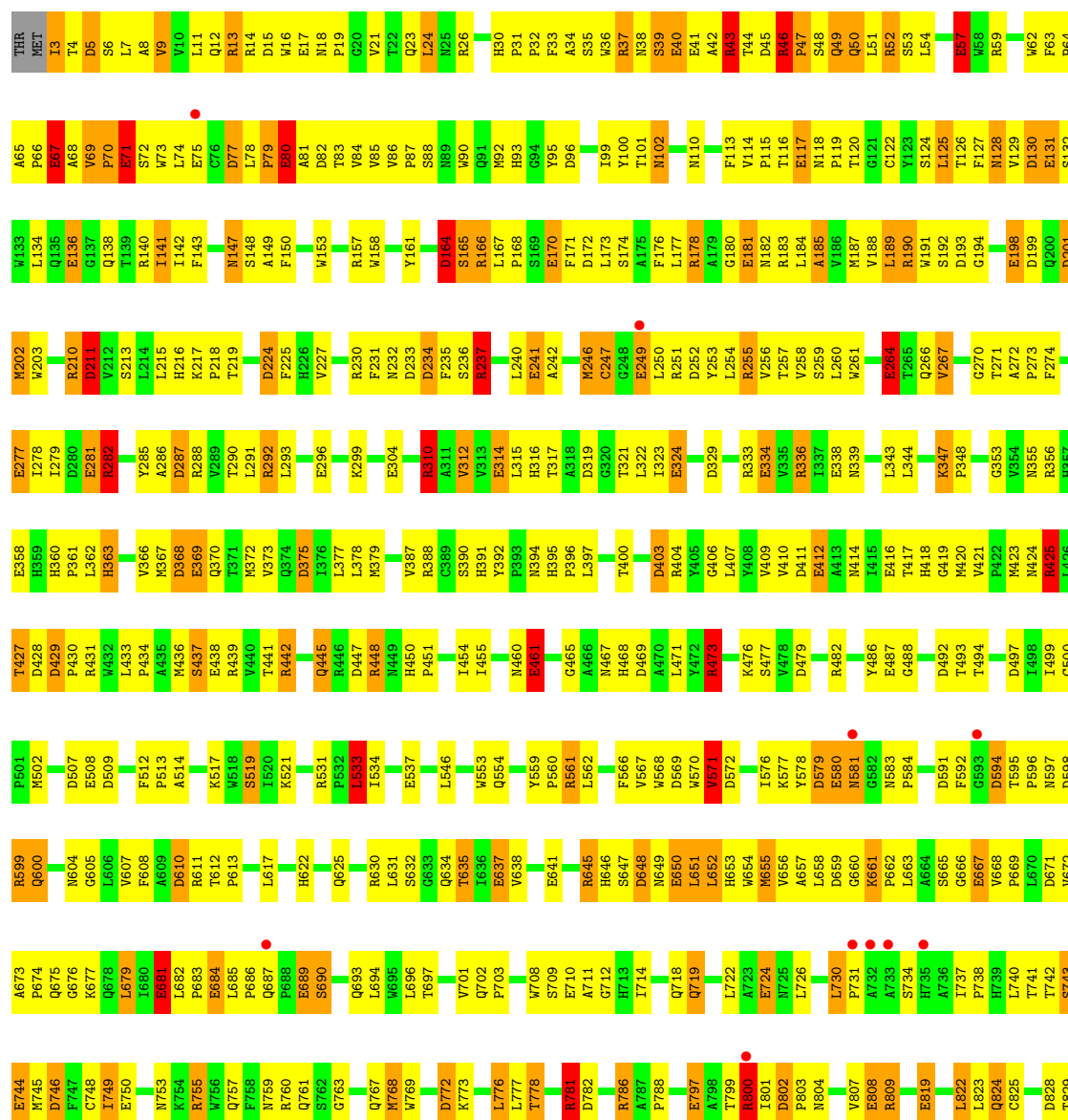
Chain N:

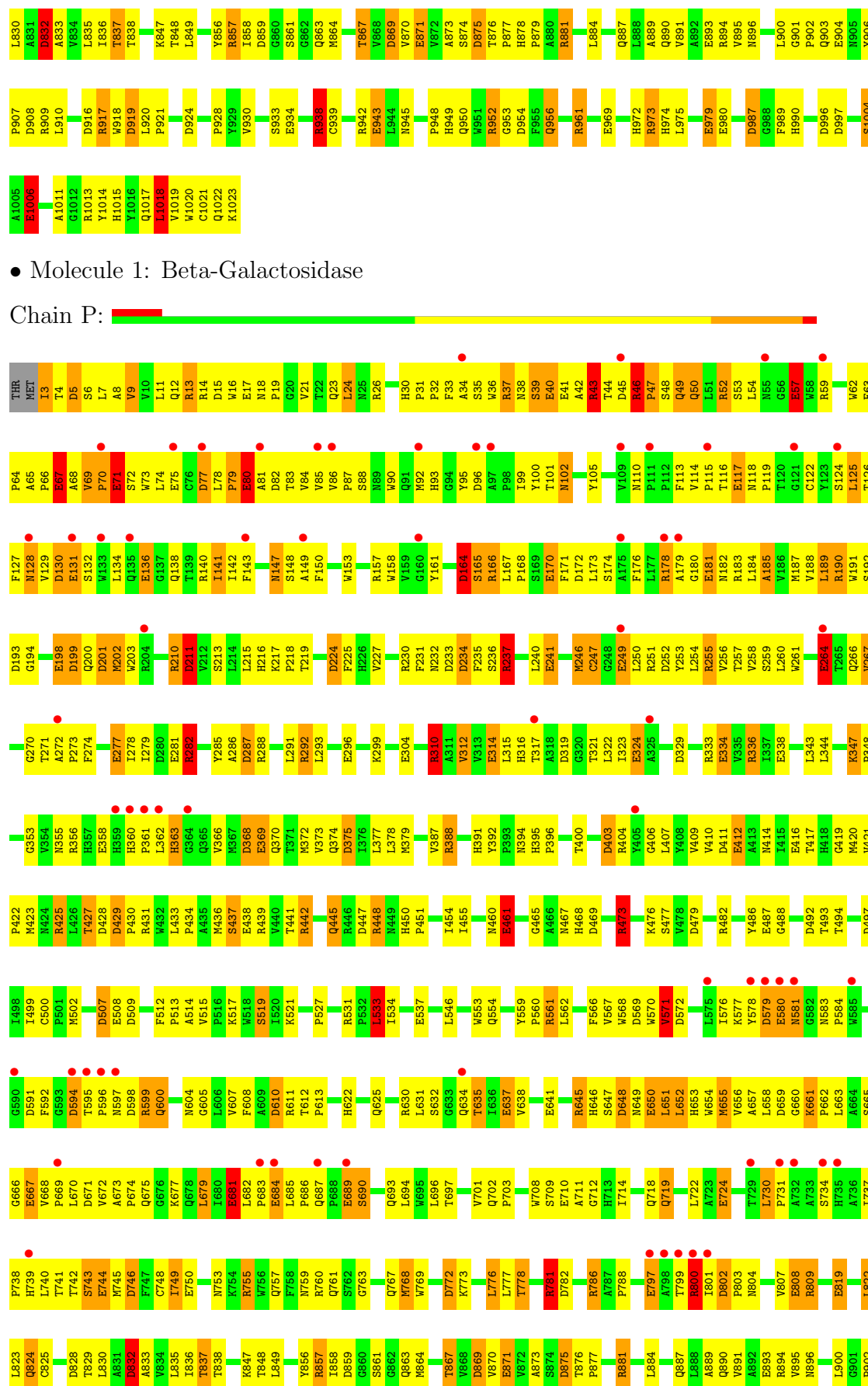




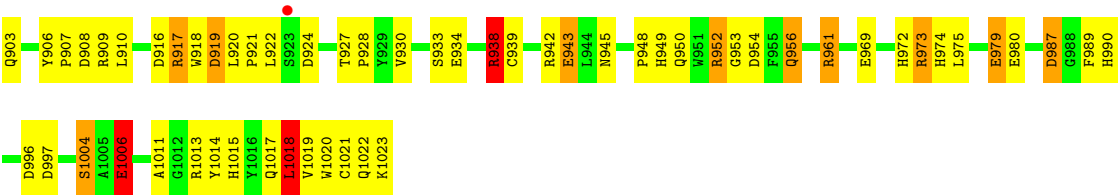
### • Molecule 1: Beta-Galactosidase

Chain O:









## 4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	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
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	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	1909 reflections (0.48%)	DCC
Wilson B-factor (Å <sup>2</sup> )	29.8	Xtriage
Anisotropy	0.258	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.30 , 63.0	EDS
Estimated twinning fraction	0.017 for h,-k,-h-l	Xtriage
L-test for twinning	$\langle  L  \rangle = 0.48$ , $\langle L^2 \rangle = 0.31$	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 <sup>2</sup> )	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.*

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

## 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 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 hydrogens added by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, and the number in parentheses is this value normalized per 1000 atoms of the molecule in the chain. The Symm-Clashes column gives symmetry related clashes, in the same way as for the Clashes column.

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

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	J	8219	0	7811	566	0
1	K	8219	0	7811	561	0
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

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	D	2	0	0	0	0
4	E	2	0	0	0	0
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

Clashscore is defined as the number of clashes calculated for the entry per 1000 atoms (including hydrogens) of the entry. The overall clashscore for this entry is 35.

All (8966) close contacts within the same asymmetric unit are listed below.

Atom-1	Atom-2	Distance(Å)	Clash(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	Distance(Å)	Clash(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
1:L:744:GLU:HB3	1:L:745:MET:HE3	1.46	0.97

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:P:114:VAL:CG1	1:P:191:TRP:HB2	2.26	0.65
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	Distance(Å)	Clash(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
1:I:336:ARG:HG2	1:I:336:ARG:NH1	2.09	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:P:3:ILE:HG23	1:P:4:THR:H	1.69	0.56
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	Distance(Å)	Clash(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
1:M:372:MET:HE1	1:M:395:HIS:HB3	1.87	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:802:ASP:OD1	1:D:803:PRO:HD2	2.14	0.48
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	Distance(Å)	Clash(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
1:E:433:LEU:O	1:E:433:LEU:HD12	2.13	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:F:50:GLN:HB3	1:F:216:HIS:HB3	2.00	0.44
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	Distance(Å)	Clash(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
1:E:57:GLU:HG2	1:E:83:THR:HG21	1.94	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:257:THR:HA	1:N:270:GLY:O	2.20	0.41
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	Distance(Å)	Clash(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
1:I:647:SER:OG	1:I:672:VAL:N	2.35	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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	Distance(Å)	Clash(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%)	25 55

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	B	1018/1023 (100%)	956 (94%)	53 (5%)	9 (1%)	25	55
1	C	1018/1023 (100%)	956 (94%)	53 (5%)	9 (1%)	25	55
1	D	1018/1023 (100%)	956 (94%)	53 (5%)	9 (1%)	25	55
1	E	1018/1023 (100%)	956 (94%)	53 (5%)	9 (1%)	25	55
1	F	1018/1023 (100%)	956 (94%)	53 (5%)	9 (1%)	25	55
1	G	1018/1023 (100%)	956 (94%)	53 (5%)	9 (1%)	25	55
1	H	1018/1023 (100%)	956 (94%)	53 (5%)	9 (1%)	25	55
1	I	1018/1023 (100%)	956 (94%)	53 (5%)	9 (1%)	25	55
1	J	1018/1023 (100%)	956 (94%)	53 (5%)	9 (1%)	25	55
1	K	1018/1023 (100%)	956 (94%)	53 (5%)	9 (1%)	25	55
1	L	1018/1023 (100%)	956 (94%)	53 (5%)	9 (1%)	25	55
1	M	1018/1023 (100%)	956 (94%)	53 (5%)	9 (1%)	25	55
1	N	1018/1023 (100%)	956 (94%)	53 (5%)	9 (1%)	25	55
1	O	1018/1023 (100%)	956 (94%)	53 (5%)	9 (1%)	25	55
1	P	1018/1023 (100%)	956 (94%)	53 (5%)	9 (1%)	25	55
All	All	16288/16368 (100%)	15296 (94%)	848 (5%)	144 (1%)	25	55

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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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%)	6	15
1	B	872/872 (100%)	759 (87%)	113 (13%)	6	15
1	C	872/872 (100%)	759 (87%)	113 (13%)	6	15
1	D	872/872 (100%)	759 (87%)	113 (13%)	6	15
1	E	872/872 (100%)	759 (87%)	113 (13%)	6	15
1	F	872/872 (100%)	759 (87%)	113 (13%)	6	15
1	G	872/872 (100%)	759 (87%)	113 (13%)	6	15
1	H	872/872 (100%)	759 (87%)	113 (13%)	6	15
1	I	872/872 (100%)	759 (87%)	113 (13%)	6	15
1	J	872/872 (100%)	759 (87%)	113 (13%)	6	15
1	K	872/872 (100%)	759 (87%)	113 (13%)	6	15
1	L	872/872 (100%)	759 (87%)	113 (13%)	6	15
1	M	872/872 (100%)	759 (87%)	113 (13%)	6	15
1	N	872/872 (100%)	759 (87%)	113 (13%)	6	15
1	O	872/872 (100%)	759 (87%)	113 (13%)	6	15
1	P	872/872 (100%)	759 (87%)	113 (13%)	6	15
All	All	13952/13952 (100%)	12144 (87%)	1808 (13%)	6	15

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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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 chains 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	9,9,10	4.94	2 (22%)	7,9,11	1.34	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
1	CME	A	748	1	9,9,10	5.85	2 (22%)	7,9,11	2.50	4 (57%)
1	CME	A	914	1	9,9,10	6.43	1 (11%)	7,9,11	1.97	2 (28%)
1	CME	B	1021	1	9,9,10	4.92	2 (22%)	7,9,11	1.33	0
1	CME	B	748	1	9,9,10	5.84	2 (22%)	7,9,11	2.49	4 (57%)
1	CME	B	914	1	9,9,10	6.44	1 (11%)	7,9,11	1.98	2 (28%)
1	CME	C	1021	1	9,9,10	4.91	2 (22%)	7,9,11	1.33	0
1	CME	C	748	1	9,9,10	5.85	2 (22%)	7,9,11	2.50	4 (57%)
1	CME	C	914	1	9,9,10	6.40	1 (11%)	7,9,11	1.97	2 (28%)
1	CME	D	1021	1	9,9,10	4.95	2 (22%)	7,9,11	1.33	0
1	CME	D	748	1	9,9,10	5.86	2 (22%)	7,9,11	2.50	4 (57%)
1	CME	D	914	1	9,9,10	6.41	1 (11%)	7,9,11	1.97	2 (28%)
1	CME	E	1021	1	9,9,10	4.94	2 (22%)	7,9,11	1.33	0
1	CME	E	748	1	9,9,10	5.85	2 (22%)	7,9,11	2.50	4 (57%)
1	CME	E	914	1	9,9,10	6.42	1 (11%)	7,9,11	1.98	2 (28%)
1	CME	F	1021	1	9,9,10	4.95	2 (22%)	7,9,11	1.34	0
1	CME	F	748	1	9,9,10	5.83	2 (22%)	7,9,11	2.50	4 (57%)
1	CME	F	914	1	9,9,10	6.40	1 (11%)	7,9,11	1.97	2 (28%)
1	CME	G	1021	1	9,9,10	4.90	2 (22%)	7,9,11	1.33	0
1	CME	G	748	1	9,9,10	5.82	2 (22%)	7,9,11	2.50	4 (57%)
1	CME	G	914	1	9,9,10	6.43	1 (11%)	7,9,11	1.98	2 (28%)
1	CME	H	1021	1	9,9,10	4.95	2 (22%)	7,9,11	1.33	0
1	CME	H	748	1	9,9,10	5.80	2 (22%)	7,9,11	2.50	4 (57%)
1	CME	H	914	1	9,9,10	6.41	1 (11%)	7,9,11	1.97	2 (28%)
1	CME	I	1021	1	9,9,10	4.91	2 (22%)	7,9,11	1.33	0
1	CME	I	748	1	9,9,10	5.84	2 (22%)	7,9,11	2.50	4 (57%)
1	CME	I	914	1	9,9,10	6.39	1 (11%)	7,9,11	1.97	2 (28%)
1	CME	J	1021	1	9,9,10	4.95	2 (22%)	7,9,11	1.33	0
1	CME	J	748	1	9,9,10	5.83	2 (22%)	7,9,11	2.49	4 (57%)
1	CME	J	914	1	9,9,10	6.43	1 (11%)	7,9,11	1.97	2 (28%)
1	CME	K	1021	1	9,9,10	4.93	2 (22%)	7,9,11	1.34	0
1	CME	K	748	1	9,9,10	5.86	2 (22%)	7,9,11	2.50	4 (57%)
1	CME	K	914	1	9,9,10	6.46	1 (11%)	7,9,11	1.97	2 (28%)
1	CME	L	1021	1	9,9,10	4.94	2 (22%)	7,9,11	1.34	0
1	CME	L	748	1	9,9,10	5.83	2 (22%)	7,9,11	2.49	4 (57%)
1	CME	L	914	1	9,9,10	6.42	1 (11%)	7,9,11	1.97	2 (28%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
1	CME	M	1021	1	9,9,10	4.92	2 (22%)	7,9,11	1.33	0
1	CME	M	748	1	9,9,10	5.85	2 (22%)	7,9,11	2.49	4 (57%)
1	CME	M	914	1	9,9,10	6.41	1 (11%)	7,9,11	1.98	2 (28%)
1	CME	N	1021	1	9,9,10	4.92	2 (22%)	7,9,11	1.33	0
1	CME	N	748	1	9,9,10	5.81	2 (22%)	7,9,11	2.50	4 (57%)
1	CME	N	914	1	9,9,10	6.45	1 (11%)	7,9,11	1.97	2 (28%)
1	CME	O	1021	1	9,9,10	4.96	2 (22%)	7,9,11	1.34	0
1	CME	O	748	1	9,9,10	5.85	2 (22%)	7,9,11	2.50	4 (57%)
1	CME	O	914	1	9,9,10	6.41	1 (11%)	7,9,11	1.97	2 (28%)
1	CME	P	1021	1	9,9,10	4.94	2 (22%)	7,9,11	1.33	0
1	CME	P	748	1	9,9,10	5.87	2 (22%)	7,9,11	2.49	4 (57%)
1	CME	P	914	1	9,9,10	6.42	1 (11%)	7,9,11	1.98	2 (28%)

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	-	0/6/8/10	0/0/0/0
1	CME	A	748	1	-	0/6/8/10	0/0/0/0
1	CME	A	914	1	-	0/6/8/10	0/0/0/0
1	CME	B	1021	1	-	0/6/8/10	0/0/0/0
1	CME	B	748	1	-	0/6/8/10	0/0/0/0
1	CME	B	914	1	-	0/6/8/10	0/0/0/0
1	CME	C	1021	1	-	0/6/8/10	0/0/0/0
1	CME	C	748	1	-	0/6/8/10	0/0/0/0
1	CME	C	914	1	-	0/6/8/10	0/0/0/0
1	CME	D	1021	1	-	0/6/8/10	0/0/0/0
1	CME	D	748	1	-	0/6/8/10	0/0/0/0
1	CME	D	914	1	-	0/6/8/10	0/0/0/0
1	CME	E	1021	1	-	0/6/8/10	0/0/0/0
1	CME	E	748	1	-	0/6/8/10	0/0/0/0
1	CME	E	914	1	-	0/6/8/10	0/0/0/0
1	CME	F	1021	1	-	0/6/8/10	0/0/0/0
1	CME	F	748	1	-	0/6/8/10	0/0/0/0
1	CME	F	914	1	-	0/6/8/10	0/0/0/0
1	CME	G	1021	1	-	0/6/8/10	0/0/0/0
1	CME	G	748	1	-	0/6/8/10	0/0/0/0
1	CME	G	914	1	-	0/6/8/10	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	CME	H	1021	1	-	0/6/8/10	0/0/0/0
1	CME	H	748	1	-	0/6/8/10	0/0/0/0
1	CME	H	914	1	-	0/6/8/10	0/0/0/0
1	CME	I	1021	1	-	0/6/8/10	0/0/0/0
1	CME	I	748	1	-	0/6/8/10	0/0/0/0
1	CME	I	914	1	-	0/6/8/10	0/0/0/0
1	CME	J	1021	1	-	0/6/8/10	0/0/0/0
1	CME	J	748	1	-	0/6/8/10	0/0/0/0
1	CME	J	914	1	-	0/6/8/10	0/0/0/0
1	CME	K	1021	1	-	0/6/8/10	0/0/0/0
1	CME	K	748	1	-	0/6/8/10	0/0/0/0
1	CME	K	914	1	-	0/6/8/10	0/0/0/0
1	CME	L	1021	1	-	0/6/8/10	0/0/0/0
1	CME	L	748	1	-	0/6/8/10	0/0/0/0
1	CME	L	914	1	-	0/6/8/10	0/0/0/0
1	CME	M	1021	1	-	0/6/8/10	0/0/0/0
1	CME	M	748	1	-	0/6/8/10	0/0/0/0
1	CME	M	914	1	-	0/6/8/10	0/0/0/0
1	CME	N	1021	1	-	0/6/8/10	0/0/0/0
1	CME	N	748	1	-	0/6/8/10	0/0/0/0
1	CME	N	914	1	-	0/6/8/10	0/0/0/0
1	CME	O	1021	1	-	0/6/8/10	0/0/0/0
1	CME	O	748	1	-	0/6/8/10	0/0/0/0
1	CME	O	914	1	-	0/6/8/10	0/0/0/0
1	CME	P	1021	1	-	0/6/8/10	0/0/0/0
1	CME	P	748	1	-	0/6/8/10	0/0/0/0
1	CME	P	914	1	-	0/6/8/10	0/0/0/0

All (80) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	914	CME	O-C	19.16	1.24	1.11
1	N	914	CME	O-C	19.13	1.24	1.11
1	B	914	CME	O-C	19.11	1.24	1.11
1	J	914	CME	O-C	19.08	1.24	1.11
1	G	914	CME	O-C	19.08	1.24	1.11
1	A	914	CME	O-C	19.07	1.24	1.11
1	P	914	CME	O-C	19.05	1.24	1.11
1	E	914	CME	O-C	19.04	1.24	1.11
1	D	914	CME	O-C	19.04	1.24	1.11
1	L	914	CME	O-C	19.03	1.24	1.11
1	H	914	CME	O-C	19.03	1.24	1.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	O	914	CME	O-C	19.02	1.24	1.11
1	M	914	CME	O-C	19.01	1.24	1.11
1	C	914	CME	O-C	18.99	1.24	1.11
1	F	914	CME	O-C	18.97	1.24	1.11
1	I	914	CME	O-C	18.95	1.24	1.11
1	P	748	CME	O-C	17.29	1.23	1.11
1	D	748	CME	O-C	17.25	1.23	1.11
1	K	748	CME	O-C	17.25	1.23	1.11
1	M	748	CME	O-C	17.24	1.23	1.11
1	A	748	CME	O-C	17.23	1.23	1.11
1	E	748	CME	O-C	17.23	1.23	1.11
1	C	748	CME	O-C	17.23	1.23	1.11
1	O	748	CME	O-C	17.23	1.23	1.11
1	B	748	CME	O-C	17.22	1.23	1.11
1	I	748	CME	O-C	17.20	1.23	1.11
1	F	748	CME	O-C	17.19	1.23	1.11
1	L	748	CME	O-C	17.18	1.23	1.11
1	J	748	CME	O-C	17.17	1.23	1.11
1	G	748	CME	O-C	17.13	1.23	1.11
1	N	748	CME	O-C	17.12	1.23	1.11
1	H	748	CME	O-C	17.09	1.23	1.11
1	O	1021	CME	O-C	14.57	1.21	1.11
1	F	1021	CME	O-C	14.53	1.21	1.11
1	J	1021	CME	O-C	14.53	1.21	1.11
1	D	1021	CME	O-C	14.53	1.21	1.11
1	H	1021	CME	O-C	14.53	1.21	1.11
1	P	1021	CME	O-C	14.52	1.21	1.11
1	L	1021	CME	O-C	14.51	1.21	1.11
1	A	1021	CME	O-C	14.50	1.21	1.11
1	E	1021	CME	O-C	14.50	1.21	1.11
1	K	1021	CME	O-C	14.49	1.21	1.11
1	B	1021	CME	O-C	14.47	1.21	1.11
1	M	1021	CME	O-C	14.45	1.21	1.11
1	N	1021	CME	O-C	14.44	1.21	1.11
1	C	1021	CME	O-C	14.42	1.21	1.11
1	I	1021	CME	O-C	14.40	1.21	1.11
1	G	1021	CME	O-C	14.38	1.21	1.11
1	F	1021	CME	CB-CA	-2.86	1.50	1.53
1	I	1021	CME	CB-CA	-2.83	1.50	1.53
1	D	1021	CME	CB-CA	-2.82	1.50	1.53
1	M	1021	CME	CB-CA	-2.81	1.50	1.53
1	L	1021	CME	CB-CA	-2.80	1.50	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	O	1021	CME	CB-CA	-2.80	1.50	1.53
1	N	1021	CME	CB-CA	-2.78	1.50	1.53
1	E	1021	CME	CB-CA	-2.77	1.50	1.53
1	A	1021	CME	CB-CA	-2.77	1.50	1.53
1	H	1021	CME	CB-CA	-2.76	1.50	1.53
1	J	1021	CME	CB-CA	-2.76	1.50	1.53
1	P	1021	CME	CB-CA	-2.75	1.50	1.53
1	K	1021	CME	CB-CA	-2.74	1.50	1.53
1	G	1021	CME	CB-CA	-2.74	1.50	1.53
1	C	1021	CME	CB-CA	-2.73	1.50	1.53
1	B	1021	CME	CB-CA	-2.72	1.50	1.53
1	L	748	CME	CB-CA	-2.21	1.50	1.53
1	K	748	CME	CB-CA	-2.20	1.50	1.53
1	N	748	CME	CB-CA	-2.19	1.50	1.53
1	D	748	CME	CB-CA	-2.19	1.50	1.53
1	J	748	CME	CB-CA	-2.18	1.50	1.53
1	F	748	CME	CB-CA	-2.18	1.50	1.53
1	I	748	CME	CB-CA	-2.18	1.50	1.53
1	O	748	CME	CB-CA	-2.18	1.50	1.53
1	A	748	CME	CB-CA	-2.16	1.50	1.53
1	P	748	CME	CB-CA	-2.16	1.50	1.53
1	G	748	CME	CB-CA	-2.14	1.51	1.53
1	M	748	CME	CB-CA	-2.14	1.51	1.53
1	E	748	CME	CB-CA	-2.14	1.51	1.53
1	C	748	CME	CB-CA	-2.13	1.51	1.53
1	B	748	CME	CB-CA	-2.13	1.51	1.53
1	H	748	CME	CB-CA	-2.13	1.51	1.53

All (96) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	914	CME	CB-SG-SD	-4.48	94.94	103.90
1	I	914	CME	CB-SG-SD	-4.48	94.95	103.90
1	E	914	CME	CB-SG-SD	-4.48	94.95	103.90
1	F	914	CME	CB-SG-SD	-4.48	94.95	103.90
1	K	914	CME	CB-SG-SD	-4.48	94.95	103.90
1	P	914	CME	CB-SG-SD	-4.48	94.96	103.90
1	B	914	CME	CB-SG-SD	-4.48	94.96	103.90
1	M	914	CME	CB-SG-SD	-4.47	94.96	103.90
1	D	914	CME	CB-SG-SD	-4.47	94.97	103.90
1	A	914	CME	CB-SG-SD	-4.47	94.97	103.90
1	L	914	CME	CB-SG-SD	-4.47	94.97	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	914	CME	CB-SG-SD	-4.47	94.97	103.90
1	C	914	CME	CB-SG-SD	-4.47	94.97	103.90
1	H	914	CME	CB-SG-SD	-4.47	94.98	103.90
1	J	914	CME	CB-SG-SD	-4.47	94.98	103.90
1	N	914	CME	CB-SG-SD	-4.47	94.98	103.90
1	N	748	CME	CB-CA-N	4.45	118.54	109.07
1	O	748	CME	CB-CA-N	4.45	118.53	109.07
1	D	748	CME	CB-CA-N	4.43	118.50	109.07
1	G	748	CME	CB-CA-N	4.43	118.49	109.07
1	F	748	CME	CB-CA-N	4.43	118.49	109.07
1	P	748	CME	CB-CA-N	4.43	118.49	109.07
1	I	748	CME	CB-CA-N	4.42	118.48	109.07
1	K	748	CME	CB-CA-N	4.42	118.47	109.07
1	B	748	CME	CB-CA-N	4.42	118.47	109.07
1	J	748	CME	CB-CA-N	4.41	118.47	109.07
1	E	748	CME	CB-CA-N	4.42	118.47	109.07
1	M	748	CME	CB-CA-N	4.42	118.47	109.07
1	L	748	CME	CB-CA-N	4.41	118.46	109.07
1	C	748	CME	CB-CA-N	4.41	118.45	109.07
1	A	748	CME	CB-CA-N	4.40	118.44	109.07
1	H	748	CME	CB-CA-N	4.39	118.42	109.07
1	A	748	CME	C-CA-N	3.31	117.13	113.83
1	H	748	CME	C-CA-N	3.30	117.13	113.83
1	E	748	CME	C-CA-N	3.30	117.13	113.83
1	C	748	CME	C-CA-N	3.29	117.12	113.83
1	F	748	CME	C-CA-N	3.28	117.10	113.83
1	K	748	CME	C-CA-N	3.27	117.09	113.83
1	O	748	CME	C-CA-N	3.27	117.09	113.83
1	I	748	CME	C-CA-N	3.26	117.09	113.83
1	G	748	CME	C-CA-N	3.26	117.09	113.83
1	J	748	CME	C-CA-N	3.26	117.09	113.83
1	D	748	CME	C-CA-N	3.26	117.08	113.83
1	B	748	CME	C-CA-N	3.25	117.08	113.83
1	N	748	CME	C-CA-N	3.25	117.07	113.83
1	M	748	CME	C-CA-N	3.24	117.07	113.83
1	P	748	CME	C-CA-N	3.24	117.06	113.83
1	L	748	CME	C-CA-N	3.24	117.06	113.83
1	H	748	CME	CB-SG-SD	2.32	108.54	103.90
1	K	748	CME	CB-SG-SD	2.31	108.52	103.90
1	D	748	CME	CB-SG-SD	2.31	108.52	103.90
1	A	748	CME	CB-SG-SD	2.31	108.52	103.90
1	I	748	CME	CB-SG-SD	2.31	108.51	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	748	CME	CB-SG-SD	2.31	108.51	103.90
1	M	748	CME	CB-SG-SD	2.31	108.51	103.90
1	J	748	CME	CB-SG-SD	2.31	108.50	103.90
1	N	748	CME	CB-SG-SD	2.31	108.50	103.90
1	B	748	CME	CB-SG-SD	2.30	108.50	103.90
1	E	748	CME	CB-SG-SD	2.30	108.50	103.90
1	P	748	CME	CB-SG-SD	2.30	108.50	103.90
1	O	748	CME	CB-SG-SD	2.30	108.49	103.90
1	C	748	CME	CB-SG-SD	2.30	108.49	103.90
1	G	748	CME	CB-SG-SD	2.29	108.47	103.90
1	L	748	CME	CB-SG-SD	2.29	108.47	103.90
1	M	914	CME	CB-CA-N	2.22	113.80	109.07
1	L	914	CME	CB-CA-N	2.21	113.77	109.07
1	P	914	CME	CB-CA-N	2.21	113.76	109.07
1	E	914	CME	CB-CA-N	2.20	113.76	109.07
1	N	914	CME	CB-CA-N	2.20	113.76	109.07
1	B	914	CME	CB-CA-N	2.20	113.76	109.07
1	O	914	CME	CB-CA-N	2.20	113.75	109.07
1	C	914	CME	CB-CA-N	2.20	113.75	109.07
1	G	914	CME	CB-CA-N	2.19	113.74	109.07
1	D	914	CME	CB-CA-N	2.19	113.73	109.07
1	F	914	CME	CB-CA-N	2.19	113.73	109.07
1	K	914	CME	CB-CA-N	2.19	113.73	109.07
1	J	914	CME	CB-CA-N	2.18	113.72	109.07
1	I	914	CME	CB-CA-N	2.18	113.72	109.07
1	H	914	CME	CB-CA-N	2.18	113.71	109.07
1	A	914	CME	CB-CA-N	2.18	113.70	109.07
1	M	748	CME	CA-CB-SG	-2.08	104.79	114.63
1	P	748	CME	CA-CB-SG	-2.08	104.80	114.63
1	H	748	CME	CA-CB-SG	-2.08	104.81	114.63
1	B	748	CME	CA-CB-SG	-2.08	104.81	114.63
1	C	748	CME	CA-CB-SG	-2.08	104.82	114.63
1	L	748	CME	CA-CB-SG	-2.08	104.82	114.63
1	J	748	CME	CA-CB-SG	-2.07	104.83	114.63
1	N	748	CME	CA-CB-SG	-2.07	104.83	114.63
1	D	748	CME	CA-CB-SG	-2.07	104.83	114.63
1	G	748	CME	CA-CB-SG	-2.07	104.83	114.63
1	K	748	CME	CA-CB-SG	-2.07	104.84	114.63
1	E	748	CME	CA-CB-SG	-2.07	104.84	114.63
1	O	748	CME	CA-CB-SG	-2.07	104.84	114.63
1	I	748	CME	CA-CB-SG	-2.07	104.85	114.63
1	A	748	CME	CA-CB-SG	-2.07	104.85	114.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	748	CME	CA-CB-SG	-2.07	104.85	114.63

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

## 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	24,24,24	0.56	0	35,35,35	1.46	3 (8%)
2	2FL	B	2001	4	24,24,24	0.56	0	35,35,35	1.45	3 (8%)
2	2FL	C	2001	4	24,24,24	0.57	0	35,35,35	1.46	3 (8%)
2	2FL	D	2001	4	24,24,24	0.56	0	35,35,35	1.45	3 (8%)
2	2FL	E	2001	4	24,24,24	0.57	0	35,35,35	1.45	3 (8%)
2	2FL	F	2001	4	24,24,24	0.58	0	35,35,35	1.45	3 (8%)
2	2FL	G	2001	4	24,24,24	0.58	0	35,35,35	1.46	3 (8%)
2	2FL	H	2001	4	24,24,24	0.57	0	35,35,35	1.46	3 (8%)
2	2FL	I	2001	4	24,24,24	0.57	0	35,35,35	1.46	3 (8%)
2	2FL	J	2001	4	24,24,24	0.57	0	35,35,35	1.46	3 (8%)
2	2FL	K	2001	4	24,24,24	0.57	0	35,35,35	1.46	3 (8%)
2	2FL	L	2001	4	24,24,24	0.57	0	35,35,35	1.46	3 (8%)
2	2FL	M	2001	4	24,24,24	0.57	0	35,35,35	1.46	3 (8%)
2	2FL	N	2001	4	24,24,24	0.57	0	35,35,35	1.46	3 (8%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
2	2FL	O	2001	4	24,24,24	0.56	0	35,35,35	1.46	3 (8%)
2	2FL	P	2001	4	24,24,24	0.57	0	35,35,35	1.46	3 (8%)

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 (48) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	H	2001	2FL	F2-C2-C3	6.48	113.43	108.54
2	A	2001	2FL	F2-C2-C3	6.46	113.42	108.54
2	C	2001	2FL	F2-C2-C3	6.44	113.40	108.54
2	G	2001	2FL	F2-C2-C3	6.42	113.39	108.54
2	N	2001	2FL	F2-C2-C3	6.41	113.39	108.54
2	M	2001	2FL	F2-C2-C3	6.41	113.38	108.54
2	J	2001	2FL	F2-C2-C3	6.41	113.38	108.54
2	L	2001	2FL	F2-C2-C3	6.41	113.38	108.54
2	K	2001	2FL	F2-C2-C3	6.40	113.37	108.54
2	I	2001	2FL	F2-C2-C3	6.40	113.37	108.54
2	P	2001	2FL	F2-C2-C3	6.39	113.37	108.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	O	2001	2FL	F2-C2-C3	6.38	113.36	108.54
2	B	2001	2FL	F2-C2-C3	6.37	113.35	108.54
2	E	2001	2FL	F2-C2-C3	6.37	113.35	108.54
2	D	2001	2FL	F2-C2-C3	6.36	113.34	108.54
2	F	2001	2FL	F2-C2-C3	6.34	113.33	108.54
2	I	2001	2FL	C2-C3-C4	-3.17	105.39	109.40
2	O	2001	2FL	C2-C3-C4	-3.16	105.40	109.40
2	E	2001	2FL	C2-C3-C4	-3.16	105.40	109.40
2	C	2001	2FL	C2-C3-C4	-3.15	105.42	109.40
2	D	2001	2FL	C2-C3-C4	-3.15	105.42	109.40
2	M	2001	2FL	C2-C3-C4	-3.14	105.42	109.40
2	B	2001	2FL	C2-C3-C4	-3.13	105.44	109.40
2	P	2001	2FL	C2-C3-C4	-3.13	105.44	109.40
2	L	2001	2FL	C2-C3-C4	-3.13	105.44	109.40
2	N	2001	2FL	C2-C3-C4	-3.13	105.44	109.40
2	J	2001	2FL	C2-C3-C4	-3.13	105.45	109.40
2	F	2001	2FL	C2-C3-C4	-3.12	105.45	109.40
2	K	2001	2FL	C2-C3-C4	-3.12	105.45	109.40
2	G	2001	2FL	C2-C3-C4	-3.12	105.46	109.40
2	H	2001	2FL	C2-C3-C4	-3.11	105.46	109.40
2	A	2001	2FL	C2-C3-C4	-3.10	105.48	109.40
2	O	2001	2FL	C1-C2-C3	2.09	114.69	111.50
2	C	2001	2FL	C1-C2-C3	2.08	114.67	111.50
2	B	2001	2FL	C1-C2-C3	2.08	114.67	111.50
2	L	2001	2FL	C1-C2-C3	2.07	114.67	111.50
2	I	2001	2FL	C1-C2-C3	2.07	114.66	111.50
2	K	2001	2FL	C1-C2-C3	2.06	114.65	111.50
2	M	2001	2FL	C1-C2-C3	2.06	114.64	111.50
2	P	2001	2FL	C1-C2-C3	2.06	114.64	111.50
2	J	2001	2FL	C1-C2-C3	2.05	114.63	111.50
2	A	2001	2FL	C1-C2-C3	2.04	114.62	111.50
2	H	2001	2FL	C1-C2-C3	2.04	114.62	111.50
2	N	2001	2FL	C1-C2-C3	2.04	114.61	111.50
2	F	2001	2FL	C1-C2-C3	2.04	114.61	111.50
2	D	2001	2FL	C1-C2-C3	2.04	114.61	111.50
2	E	2001	2FL	C1-C2-C3	2.03	114.59	111.50
2	G	2001	2FL	C1-C2-C3	2.02	114.59	111.50

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

## 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, 95<sup>th</sup> percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ > 2	OWAB(Å <sup>2</sup> )	Q < 0.9
1	A	1021/1023 (99%)	-0.71	9 (0%) 81 85	2, 23, 62, 99	0
1	B	1021/1023 (99%)	-0.71	6 (0%) 86 90	1, 21, 61, 98	0
1	C	1021/1023 (99%)	-0.72	5 (0%) 88 92	1, 21, 61, 98	0
1	D	1021/1023 (99%)	-0.53	5 (0%) 88 92	10, 31, 69, 100	0
1	E	1021/1023 (99%)	-0.02	22 (2%) 59 65	27, 48, 83, 100	0
1	F	1021/1023 (99%)	-0.64	5 (0%) 88 92	8, 28, 67, 100	0
1	G	1021/1023 (99%)	-0.59	7 (0%) 84 89	8, 29, 68, 100	0
1	H	1021/1023 (99%)	-0.29	13 (1%) 74 79	18, 38, 75, 100	0
1	I	1021/1023 (99%)	-0.50	8 (0%) 83 87	11, 32, 70, 100	0
1	J	1021/1023 (99%)	-0.64	6 (0%) 86 90	10, 30, 69, 100	0
1	K	1021/1023 (99%)	-0.32	16 (1%) 68 74	24, 45, 81, 100	0
1	L	1021/1023 (99%)	-0.25	21 (2%) 60 67	25, 45, 81, 100	0
1	M	1021/1023 (99%)	0.18	37 (3%) 41 46	27, 48, 83, 100	0
1	N	1021/1023 (99%)	-0.46	11 (1%) 77 82	16, 36, 74, 100	0
1	O	1021/1023 (99%)	-0.39	10 (0%) 79 83	21, 42, 78, 100	0
1	P	1021/1023 (99%)	0.61	69 (6%) 17 19	39, 60, 91, 100	0
All	All	16336/16368 (99%)	-0.37	250 (1%) 70 75	1, 38, 76, 100	0

All (250) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	G	732	ALA	5.8
1	G	735	HIS	5.4
1	P	799	THR	5.1
1	O	733	ALA	4.8
1	K	732	ALA	4.8

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Mol	Chain	Res	Type	RSRZ
1	L	735	HIS	4.8
1	K	735	HIS	4.7
1	M	596	PRO	4.6
1	P	683	PRO	4.4
1	K	731	PRO	4.4
1	H	735	HIS	4.4
1	P	575	LEU	4.3
1	O	732	ALA	4.3
1	M	581	ASN	4.3
1	O	735	HIS	4.3
1	I	581	ASN	4.3
1	F	581	ASN	4.3
1	P	735	HIS	4.3
1	P	739	HIS	4.3
1	J	581	ASN	4.3
1	L	733	ALA	4.3
1	F	744	GLU	4.2
1	A	580	GLU	4.1
1	C	581	ASN	4.0
1	B	731	PRO	3.9
1	P	317	THR	3.9
1	E	581	ASN	3.8
1	M	76	CYS	3.8
1	A	735	HIS	3.7
1	E	596	PRO	3.7
1	A	582	GLY	3.7
1	M	135	GLN	3.7
1	P	732	ALA	3.7
1	E	79	PRO	3.7
1	E	583	ASN	3.7
1	K	800	ARG	3.7
1	L	732	ALA	3.6
1	B	735	HIS	3.6
1	P	684	GLU	3.6
1	D	581	ASN	3.5
1	K	730	LEU	3.5
1	E	798	ALA	3.5
1	I	580	GLU	3.4
1	J	580	GLU	3.4
1	M	799	THR	3.4
1	G	731	PRO	3.4
1	N	581	ASN	3.4

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Mol	Chain	Res	Type	RSRZ
1	P	75	GLU	3.4
1	P	131	GLU	3.4
1	L	581	ASN	3.4
1	H	135	GLN	3.4
1	P	687	GLN	3.4
1	I	800	ARG	3.4
1	P	362	LEU	3.3
1	P	798	ALA	3.3
1	E	76	CYS	3.3
1	P	731	PRO	3.3
1	L	731	PRO	3.3
1	P	800	ARG	3.3
1	N	800	ARG	3.3
1	H	800	ARG	3.3
1	P	595	THR	3.2
1	B	730	LEU	3.2
1	M	79	PRO	3.2
1	P	149	ALA	3.2
1	M	249	GLU	3.2
1	P	86	VAL	3.2
1	K	798	ALA	3.2
1	P	364	GLY	3.2
1	P	178	ARG	3.1
1	P	81	ALA	3.1
1	A	733	ALA	3.1
1	P	97	ALA	3.1
1	H	582	GLY	3.1
1	N	744	GLU	3.1
1	M	131	GLU	3.1
1	D	580	GLU	3.1
1	M	580	GLU	3.0
1	M	180	GLY	3.0
1	P	55	ASN	3.0
1	P	133	TRP	3.0
1	K	581	ASN	3.0
1	P	801	ILE	3.0
1	M	246	MET	3.0
1	P	45	ASP	3.0
1	A	131	GLU	3.0
1	L	79	PRO	3.0
1	P	405	TYR	3.0
1	M	582	GLY	2.9

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Mol	Chain	Res	Type	RSRZ
1	C	689	GLU	2.9
1	B	582	GLY	2.9
1	P	596	PRO	2.9
1	L	800	ARG	2.9
1	M	800	ARG	2.9
1	M	248	GLY	2.9
1	E	799	THR	2.8
1	E	131	GLU	2.8
1	E	136	GLU	2.8
1	H	732	ALA	2.8
1	P	204	ARG	2.8
1	L	687	GLN	2.8
1	H	801	ILE	2.8
1	N	583	ASN	2.8
1	O	581	ASN	2.8
1	P	135	GLN	2.8
1	I	732	ALA	2.8
1	P	590	GLY	2.8
1	P	580	GLU	2.8
1	P	115	PRO	2.8
1	P	325	ALA	2.8
1	P	585	TRP	2.7
1	M	114	VAL	2.7
1	E	321	THR	2.7
1	J	744	GLU	2.7
1	M	801	ILE	2.7
1	K	595	THR	2.7
1	P	689	GLU	2.7
1	P	797	GLU	2.7
1	F	689	GLU	2.7
1	E	582	GLY	2.7
1	N	180	GLY	2.7
1	C	580	GLU	2.7
1	P	579	ASP	2.7
1	J	689	GLU	2.6
1	D	583	ASN	2.6
1	P	111	PRO	2.6
1	L	745	MET	2.6
1	P	597	ASN	2.6
1	H	76	CYS	2.6
1	P	143	PHE	2.6
1	H	4	THR	2.6

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Mol	Chain	Res	Type	RSRZ
1	P	85	VAL	2.6
1	K	733	ALA	2.6
1	G	799	THR	2.6
1	P	729	THR	2.6
1	M	798	ALA	2.6
1	A	682	LEU	2.6
1	M	173	LEU	2.6
1	I	180	GLY	2.6
1	E	745	MET	2.6
1	N	580	GLU	2.6
1	A	732	ALA	2.5
1	M	237	ARG	2.5
1	G	730	LEU	2.5
1	K	689	GLU	2.5
1	M	93	HIS	2.5
1	M	160	GLY	2.5
1	K	734	SER	2.5
1	L	798	ALA	2.5
1	O	687	GLN	2.5
1	P	578	TYR	2.5
1	K	772	ASP	2.5
1	P	175	ALA	2.5
1	P	669	PRO	2.5
1	L	682	LEU	2.4
1	M	733	ALA	2.5
1	P	634	GLN	2.5
1	P	581	ASN	2.4
1	M	162	GLY	2.4
1	N	582	GLY	2.4
1	N	135	GLN	2.4
1	P	59	ARG	2.4
1	M	116	THR	2.4
1	F	732	ALA	2.4
1	L	595	THR	2.4
1	M	69	VAL	2.4
1	M	75	GLU	2.4
1	P	34	ALA	2.4
1	H	799	THR	2.4
1	A	581	ASN	2.4
1	P	249	GLU	2.4
1	D	800	ARG	2.4
1	L	761	GLN	2.4

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Mol	Chain	Res	Type	RSRZ
1	I	801	ILE	2.3
1	C	744	GLU	2.3
1	E	580	GLU	2.3
1	O	800	ARG	2.3
1	O	593	GLY	2.3
1	B	689	GLU	2.3
1	P	264	GLU	2.3
1	O	731	PRO	2.3
1	B	687	GLN	2.3
1	P	734	SER	2.3
1	M	595	THR	2.3
1	P	160	GLY	2.3
1	H	75	GLU	2.3
1	P	70	PRO	2.3
1	P	361	PRO	2.3
1	M	583	ASN	2.3
1	E	135	GLN	2.3
1	N	745	MET	2.3
1	P	360	HIS	2.3
1	P	92	MET	2.3
1	K	237	ARG	2.3
1	H	580	GLU	2.3
1	L	744	GLU	2.3
1	K	799	THR	2.2
1	P	923	SER	2.2
1	M	179	ALA	2.2
1	C	799	THR	2.2
1	I	582	GLY	2.2
1	F	579	ASP	2.2
1	M	175	ALA	2.2
1	D	731	PRO	2.2
1	H	744	GLU	2.2
1	M	247	CYS	2.2
1	E	819	GLU	2.2
1	L	739	HIS	2.2
1	L	734	SER	2.2
1	L	578	TYR	2.2
1	M	320	GLY	2.2
1	P	179	ALA	2.1
1	G	800	ARG	2.1
1	P	128	ASN	2.1
1	P	272	ALA	2.1

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Mol	Chain	Res	Type	RSRZ
1	E	75	GLU	2.1
1	A	799	THR	2.1
1	O	249	GLU	2.1
1	E	160	GLY	2.1
1	I	735	HIS	2.1
1	E	731	PRO	2.1
1	L	803	PRO	2.1
1	M	66	PRO	2.1
1	P	121	GLY	2.1
1	H	131	GLU	2.1
1	N	689	GLU	2.1
1	J	732	ALA	2.1
1	L	76	CYS	2.1
1	E	579	ASP	2.1
1	P	96	ASP	2.1
1	L	135	GLN	2.1
1	E	74	LEU	2.1
1	M	219	THR	2.1
1	N	731	PRO	2.1
1	M	594	ASP	2.1
1	G	689	GLU	2.1
1	K	131	GLU	2.1
1	O	75	GLU	2.1
1	M	49	GLN	2.1
1	P	77	ASP	2.1
1	P	109	VAL	2.1
1	M	136	GLU	2.1
1	J	799	THR	2.0
1	L	799	THR	2.0
1	E	173	LEU	2.0
1	K	135	GLN	2.0
1	P	359	HIS	2.0
1	P	594	ASP	2.0
1	E	65	ALA	2.0
1	P	124	SER	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, 95<sup>th</sup> 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	RSR	LLDF	B-factors(Å <sup>2</sup> )	Q<0.9
1	CME	O	748	10/11	0.33	4.09	50,62,95,100	0
1	CME	J	1021	10/11	0.23	2.52	42,58,93,100	0
1	CME	P	1021	10/11	0.32	2.17	72,87,100,100	0
1	CME	B	1021	10/11	0.23	2.13	33,49,84,97	0
1	CME	M	748	10/11	0.26	2.07	56,68,100,100	0
1	CME	H	748	10/11	0.22	1.89	46,58,92,100	0
1	CME	E	748	10/11	0.23	1.84	56,68,100,100	0
1	CME	A	748	10/11	0.18	1.69	31,43,76,87	0
1	CME	A	914	10/11	0.15	1.39	17,25,61,67	0
1	CME	N	748	10/11	0.22	1.35	44,56,90,100	0
1	CME	E	914	10/11	0.18	1.17	42,50,87,92	0
1	CME	F	748	10/11	0.19	1.08	36,48,81,93	0
1	CME	A	1021	10/11	0.17	0.91	35,50,85,99	0
1	CME	G	748	10/11	0.18	0.85	37,48,82,93	0
1	CME	H	914	10/11	0.15	0.77	33,40,77,82	0
1	CME	J	914	10/11	0.14	0.66	25,32,69,75	0
1	CME	I	914	10/11	0.14	0.60	26,34,70,76	0
1	CME	N	1021	10/11	0.17	0.42	48,64,99,100	0
1	CME	H	1021	10/11	0.20	0.42	50,66,100,100	0
1	CME	F	914	10/11	0.13	0.41	23,30,67,72	0
1	CME	K	1021	10/11	0.18	0.39	57,73,100,100	0
1	CME	I	748	10/11	0.16	0.39	40,52,85,97	0
1	CME	L	748	10/11	0.20	0.37	53,65,99,100	0
1	CME	D	1021	10/11	0.17	0.31	43,58,93,100	0
1	CME	B	748	10/11	0.17	0.31	29,41,75,86	0
1	CME	D	914	10/11	0.13	0.30	25,33,69,75	0
1	CME	C	748	10/11	0.19	0.28	29,41,74,86	0
1	CME	O	1021	10/11	0.17	0.23	54,69,100,100	0
1	CME	L	914	10/11	0.14	0.17	40,47,84,89	0
1	CME	P	914	10/11	0.22	0.12	54,62,98,100	0
1	CME	C	1021	10/11	0.15	0.10	33,49,84,97	0
1	CME	E	1021	10/11	0.18	0.08	60,76,100,100	0
1	CME	G	1021	10/11	0.16	0.01	41,56,91,100	0
1	CME	D	748	10/11	0.18	-0.05	39,51,84,95	0
1	CME	J	748	10/11	0.16	-0.14	38,50,84,95	0
1	CME	P	748	10/11	0.25	-0.14	68,80,100,100	0
1	CME	F	1021	10/11	0.15	-0.20	40,56,91,100	0
1	CME	C	914	10/11	0.09	-0.20	16,23,60,65	0
1	CME	I	1021	10/11	0.14	-0.29	44,60,94,100	0
1	CME	K	748	10/11	0.18	-0.31	53,65,98,100	0
1	CME	K	914	10/11	0.13	-0.34	40,47,84,89	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
1	CME	L	1021	10/11	0.16	-0.37	57,73,100,100	0
1	CME	O	914	10/11	0.12	-0.41	36,44,80,86	0
1	CME	M	1021	10/11	0.17	-0.46	60,75,100,100	0
1	CME	B	914	10/11	0.11	-0.51	16,23,60,66	0
1	CME	M	914	10/11	0.16	-0.62	42,50,86,92	0
1	CME	N	914	10/11	0.12	-0.64	31,38,75,81	0
1	CME	G	914	10/11	0.10	-1.00	23,31,67,73	0

## 6.3 Carbohydrates i

There are no carbohydrates in this entry.

## 6.4 Ligands i

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, 95<sup>th</sup> 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	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
3	MG	G	2002	1/1	0.22	10.04	29,29,29,29	0
2	2FL	K	2001	23/23	0.30	8.26	63,74,91,100	0
3	MG	B	2002	1/1	0.20	6.97	22,22,22,22	0
2	2FL	O	2001	23/23	0.24	6.10	59,70,87,100	0
4	NA	E	2004	1/1	0.36	6.00	55,55,55,55	0
4	NA	M	2004	1/1	0.36	5.93	55,55,55,55	0
2	2FL	G	2001	23/23	0.18	5.46	46,57,74,97	0
4	NA	O	2005	1/1	0.14	5.37	37,37,37,37	0
4	NA	P	2004	1/1	0.39	5.02	67,67,67,67	0
3	MG	F	2002	1/1	0.20	4.87	29,29,29,29	0
2	2FL	H	2001	23/23	0.29	4.56	56,67,84,100	0
2	2FL	L	2001	23/23	0.29	4.35	63,74,91,100	0
4	NA	L	2004	1/1	0.28	4.23	53,53,53,53	0
3	MG	H	2002	1/1	0.24	4.17	39,39,39,39	0
4	NA	N	2005	1/1	0.16	4.16	31,31,31,31	0
4	NA	J	2005	1/1	0.15	3.90	25,25,25,25	0
4	NA	F	2005	1/1	0.11	3.84	23,23,23,23	0
4	NA	J	2004	1/1	0.19	3.72	38,38,38,38	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
2	2FL	B	2001	23/23	0.17	3.66	39,50,67,90	0
3	MG	O	2002	1/1	0.22	3.55	42,42,42,42	0
4	NA	H	2004	1/1	0.23	3.30	46,46,46,46	0
2	2FL	F	2001	23/23	0.18	3.24	46,57,74,96	0
2	2FL	C	2001	23/23	0.20	3.12	39,50,67,89	0
2	2FL	J	2001	23/23	0.19	3.07	48,59,76,99	0
2	2FL	E	2001	23/23	0.22	2.88	66,77,94,100	0
2	2FL	A	2001	23/23	0.16	2.83	40,52,68,91	0
3	MG	N	2002	1/1	0.15	2.77	37,37,37,37	0
4	NA	B	2005	1/1	0.12	2.73	16,16,16,16	0
3	MG	C	2002	1/1	0.17	2.55	22,22,22,22	0
3	MG	K	2002	1/1	0.18	2.43	45,45,45,45	0
2	2FL	P	2001	23/23	0.28	2.24	77,89,100,100	0
2	2FL	D	2001	23/23	0.19	1.95	48,60,76,99	0
4	NA	K	2004	1/1	0.19	1.93	53,53,53,53	0
4	NA	O	2004	1/1	0.16	1.83	49,49,49,49	0
3	MG	D	2002	1/1	0.16	1.82	31,31,31,31	0
2	2FL	N	2001	23/23	0.16	1.60	54,65,82,100	0
3	MG	I	2002	1/1	0.17	1.33	32,32,32,32	0
3	MG	L	2002	1/1	0.18	1.09	46,46,46,46	0
4	NA	L	2005	1/1	0.13	1.01	40,40,40,40	0
4	NA	I	2005	1/1	0.12	0.93	27,27,27,27	0
2	2FL	I	2001	23/23	0.16	0.58	49,61,78,100	0
4	NA	A	2005	1/1	0.09	0.53	18,18,18,18	0
4	NA	P	2005	1/1	0.17	0.51	55,55,55,55	0
4	NA	D	2005	1/1	0.11	0.44	26,26,26,26	0
2	2FL	M	2001	23/23	0.21	0.43	65,77,93,100	0
4	NA	D	2004	1/1	0.13	0.40	38,38,38,38	0
3	MG	J	2003	1/1	0.12	0.35	24,24,24,24	0
4	NA	H	2005	1/1	0.11	0.31	33,33,33,33	0
4	NA	A	2004	1/1	0.11	0.07	30,30,30,30	0
3	MG	G	2003	1/1	0.11	-0.01	22,22,22,22	0
4	NA	G	2005	1/1	0.10	-0.06	24,24,24,24	0
3	MG	P	2002	1/1	0.22	-0.11	60,60,60,60	0
3	MG	F	2003	1/1	0.12	-0.22	22,22,22,22	0
4	NA	N	2004	1/1	0.12	-0.28	44,44,44,44	0
3	MG	E	2002	1/1	0.14	-0.29	48,48,48,48	0
4	NA	C	2004	1/1	0.11	-0.31	29,29,29,29	0
4	NA	F	2004	1/1	0.12	-0.38	36,36,36,36	0
3	MG	I	2003	1/1	0.11	-0.56	26,26,26,26	0
4	NA	E	2005	1/1	0.13	-0.57	43,43,43,43	0
4	NA	I	2004	1/1	0.13	-0.62	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
3	MG	J	2002	1/1	0.10	-0.63	31,31,31,31	0
4	NA	G	2004	1/1	0.10	-0.64	36,36,36,36	0
3	MG	M	2003	1/1	0.18	-0.75	41,41,41,41	0
3	MG	A	2003	1/1	0.10	-0.86	16,16,16,16	0
4	NA	M	2005	1/1	0.12	-0.88	43,43,43,43	0
3	MG	O	2003	1/1	0.12	-1.08	35,35,35,35	0
3	MG	E	2003	1/1	0.14	-1.33	42,42,42,42	0
3	MG	C	2003	1/1	0.08	-1.50	15,15,15,15	0
3	MG	M	2002	1/1	0.13	-1.58	48,48,48,48	0
4	NA	B	2004	1/1	0.09	-1.78	29,29,29,29	0
3	MG	N	2003	1/1	0.10	-1.91	30,30,30,30	0
3	MG	B	2003	1/1	0.08	-2.09	15,15,15,15	0
4	NA	K	2005	1/1	0.06	-2.09	40,40,40,40	0
4	NA	C	2005	1/1	0.07	-2.37	16,16,16,16	0
3	MG	L	2003	1/1	0.09	-2.48	39,39,39,39	0
3	MG	D	2003	1/1	0.07	-2.54	24,24,24,24	0
3	MG	A	2002	1/1	0.07	-2.59	23,23,23,23	0
3	MG	H	2003	1/1	0.08	-2.64	32,32,32,32	0
3	MG	K	2003	1/1	0.08	-3.15	39,39,39,39	0
3	MG	P	2003	1/1	0.10	-6.86	53,53,53,53	0

## 6.5 Other polymers ⓘ

There are no such residues in this entry.