



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 10:00 AM UTC

PDB ID : 1XFX / pdb_00001xfx
Title : Crystal structure of anthrax edema factor (EF) in complex with calmodulin
in the presence of 10 millimolar exogenously added calcium chloride
Authors : Shen, Y.; Zhukovskaya, N.L.; Guo, Q.; Florian, J.; Tang, W.J.
Deposited on : 2004-09-15
Resolution : 3.20 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4-5-2 with Phenix2.0
Mogul : 2022.3.0, CSD as543be (2022)
Xtriage (Phenix) : 2.0
EDS : 3.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4 : 9.0.010 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

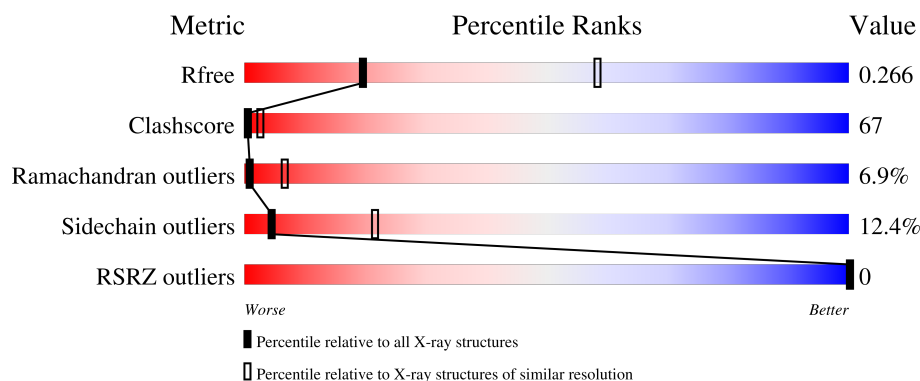
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.20 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	1466 (3.20-3.20)
Clashscore	190562	1573 (3.20-3.20)
Ramachandran outliers	187476	1548 (3.20-3.20)
Sidechain outliers	187428	1547 (3.20-3.20)
RSRZ outliers	180081	1466 (3.20-3.20)

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

Mol	Chain	Length	Quality of chain
1	A	777	 24% 55% 14% • 5%
1	B	777	 25% 53% 14% • 5%
1	C	777	 24% 54% 14% • 5%
1	D	777	 25% 54% 14% • 5%
1	E	777	 24% 55% 14% • 5%

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Mol	Chain	Length	Quality of chain
1	F	777	
2	O	149	
2	P	149	
2	Q	149	
2	R	149	
2	S	149	
2	T	149	

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 42858 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Calmodulin-sensitive adenylate cyclase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	735	Total	C	N	O	S	0	0	0
			5992	3828	995	1163	6			
1	B	735	Total	C	N	O	S	0	0	0
			5992	3828	995	1163	6			
1	C	735	Total	C	N	O	S	0	0	0
			5992	3828	995	1163	6			
1	D	735	Total	C	N	O	S	0	0	0
			5992	3828	995	1163	6			
1	E	735	Total	C	N	O	S	0	0	0
			5992	3828	995	1163	6			
1	F	735	Total	C	N	O	S	0	0	0
			5992	3828	995	1163	6			

There are 54 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	24	MET	-	initiating methionine	UNP P40136
A	25	HIS	-	expression tag	UNP P40136
A	26	HIS	-	expression tag	UNP P40136
A	27	HIS	-	expression tag	UNP P40136
A	28	HIS	-	expression tag	UNP P40136
A	29	HIS	-	expression tag	UNP P40136
A	30	HIS	-	expression tag	UNP P40136
A	31	ALA	-	cloning artifact	UNP P40136
A	32	ALA	-	cloning artifact	UNP P40136
B	24	MET	-	initiating methionine	UNP P40136
B	25	HIS	-	expression tag	UNP P40136
B	26	HIS	-	expression tag	UNP P40136
B	27	HIS	-	expression tag	UNP P40136
B	28	HIS	-	expression tag	UNP P40136
B	29	HIS	-	expression tag	UNP P40136
B	30	HIS	-	expression tag	UNP P40136
B	31	ALA	-	cloning artifact	UNP P40136

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Chain	Residue	Modelled	Actual	Comment	Reference
B	32	ALA	-	cloning artifact	UNP P40136
C	24	MET	-	initiating methionine	UNP P40136
C	25	HIS	-	expression tag	UNP P40136
C	26	HIS	-	expression tag	UNP P40136
C	27	HIS	-	expression tag	UNP P40136
C	28	HIS	-	expression tag	UNP P40136
C	29	HIS	-	expression tag	UNP P40136
C	30	HIS	-	expression tag	UNP P40136
C	31	ALA	-	cloning artifact	UNP P40136
C	32	ALA	-	cloning artifact	UNP P40136
D	24	MET	-	initiating methionine	UNP P40136
D	25	HIS	-	expression tag	UNP P40136
D	26	HIS	-	expression tag	UNP P40136
D	27	HIS	-	expression tag	UNP P40136
D	28	HIS	-	expression tag	UNP P40136
D	29	HIS	-	expression tag	UNP P40136
D	30	HIS	-	expression tag	UNP P40136
D	31	ALA	-	cloning artifact	UNP P40136
D	32	ALA	-	cloning artifact	UNP P40136
E	24	MET	-	initiating methionine	UNP P40136
E	25	HIS	-	expression tag	UNP P40136
E	26	HIS	-	expression tag	UNP P40136
E	27	HIS	-	expression tag	UNP P40136
E	28	HIS	-	expression tag	UNP P40136
E	29	HIS	-	expression tag	UNP P40136
E	30	HIS	-	expression tag	UNP P40136
E	31	ALA	-	cloning artifact	UNP P40136
E	32	ALA	-	cloning artifact	UNP P40136
F	24	MET	-	initiating methionine	UNP P40136
F	25	HIS	-	expression tag	UNP P40136
F	26	HIS	-	expression tag	UNP P40136
F	27	HIS	-	expression tag	UNP P40136
F	28	HIS	-	expression tag	UNP P40136
F	29	HIS	-	expression tag	UNP P40136
F	30	HIS	-	expression tag	UNP P40136
F	31	ALA	-	cloning artifact	UNP P40136
F	32	ALA	-	cloning artifact	UNP P40136

- Molecule 2 is a protein called Calmodulin 2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	O	146	Total	C	N	O	Se	0	0	0
			1146	702	186	249	9			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	P	146	Total	C	N	O	Se	0	0	0
			1146	702	186	249	9			
2	Q	146	Total	C	N	O	Se	0	0	0
			1146	702	186	249	9			
2	R	146	Total	C	N	O	Se	0	0	0
			1146	702	186	249	9			
2	S	146	Total	C	N	O	Se	0	0	0
			1146	702	186	249	9			
2	T	146	Total	C	N	O	Se	0	0	0
			1146	702	186	249	9			

There are 60 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
O	0	MSE	MET	modified residue	UNP P62158
O	36	MSE	MET	modified residue	UNP P62158
O	51	MSE	MET	modified residue	UNP P62158
O	71	MSE	MET	modified residue	UNP P62158
O	72	MSE	MET	modified residue	UNP P62158
O	76	MSE	MET	modified residue	UNP P62158
O	109	MSE	MET	modified residue	UNP P62158
O	124	MSE	MET	modified residue	UNP P62158
O	144	MSE	MET	modified residue	UNP P62158
O	145	MSE	MET	modified residue	UNP P62158
P	0	MSE	MET	modified residue	UNP P62158
P	36	MSE	MET	modified residue	UNP P62158
P	51	MSE	MET	modified residue	UNP P62158
P	71	MSE	MET	modified residue	UNP P62158
P	72	MSE	MET	modified residue	UNP P62158
P	76	MSE	MET	modified residue	UNP P62158
P	109	MSE	MET	modified residue	UNP P62158
P	124	MSE	MET	modified residue	UNP P62158
P	144	MSE	MET	modified residue	UNP P62158
P	145	MSE	MET	modified residue	UNP P62158
Q	0	MSE	MET	modified residue	UNP P62158
Q	36	MSE	MET	modified residue	UNP P62158
Q	51	MSE	MET	modified residue	UNP P62158
Q	71	MSE	MET	modified residue	UNP P62158
Q	72	MSE	MET	modified residue	UNP P62158
Q	76	MSE	MET	modified residue	UNP P62158
Q	109	MSE	MET	modified residue	UNP P62158
Q	124	MSE	MET	modified residue	UNP P62158
Q	144	MSE	MET	modified residue	UNP P62158

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Chain	Residue	Modelled	Actual	Comment	Reference
Q	145	MSE	MET	modified residue	UNP P62158
R	0	MSE	MET	modified residue	UNP P62158
R	36	MSE	MET	modified residue	UNP P62158
R	51	MSE	MET	modified residue	UNP P62158
R	71	MSE	MET	modified residue	UNP P62158
R	72	MSE	MET	modified residue	UNP P62158
R	76	MSE	MET	modified residue	UNP P62158
R	109	MSE	MET	modified residue	UNP P62158
R	124	MSE	MET	modified residue	UNP P62158
R	144	MSE	MET	modified residue	UNP P62158
R	145	MSE	MET	modified residue	UNP P62158
S	0	MSE	MET	modified residue	UNP P62158
S	36	MSE	MET	modified residue	UNP P62158
S	51	MSE	MET	modified residue	UNP P62158
S	71	MSE	MET	modified residue	UNP P62158
S	72	MSE	MET	modified residue	UNP P62158
S	76	MSE	MET	modified residue	UNP P62158
S	109	MSE	MET	modified residue	UNP P62158
S	124	MSE	MET	modified residue	UNP P62158
S	144	MSE	MET	modified residue	UNP P62158
S	145	MSE	MET	modified residue	UNP P62158
T	0	MSE	MET	modified residue	UNP P62158
T	36	MSE	MET	modified residue	UNP P62158
T	51	MSE	MET	modified residue	UNP P62158
T	71	MSE	MET	modified residue	UNP P62158
T	72	MSE	MET	modified residue	UNP P62158
T	76	MSE	MET	modified residue	UNP P62158
T	109	MSE	MET	modified residue	UNP P62158
T	124	MSE	MET	modified residue	UNP P62158
T	144	MSE	MET	modified residue	UNP P62158
T	145	MSE	MET	modified residue	UNP P62158

- Molecule 3 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total Mg 1 1	0	0
3	B	1	Total Mg 1 1	0	0
3	C	1	Total Mg 1 1	0	0
3	D	1	Total Mg 1 1	0	0

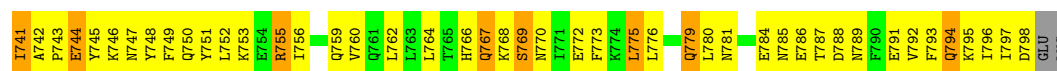
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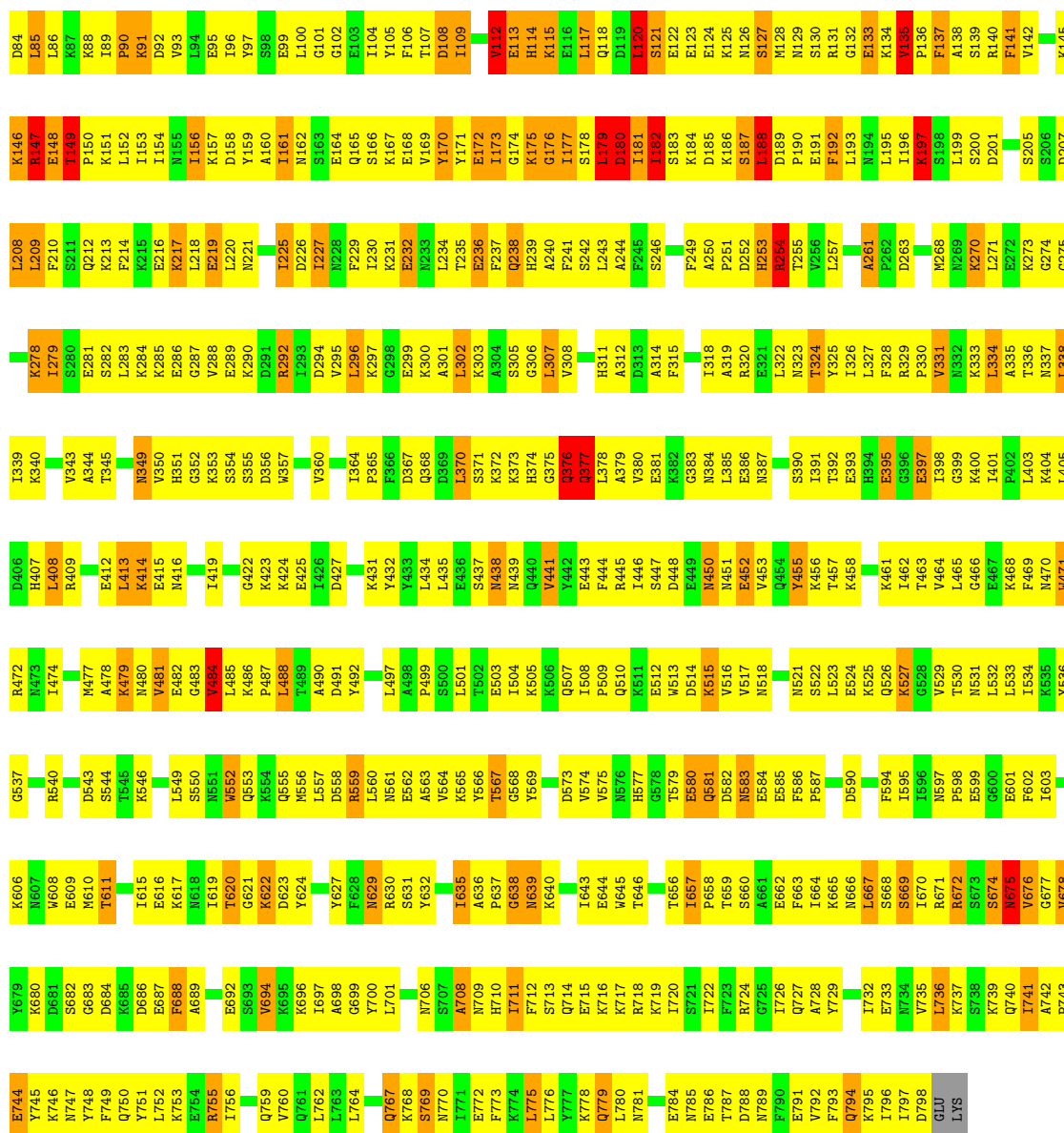
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	E	1	Total 1	Mg 1	0	0
3	F	1	Total 1	Mg 1	0	0

- Molecule 4 is CALCIUM ION (CCD ID: CA) (formula: Ca).

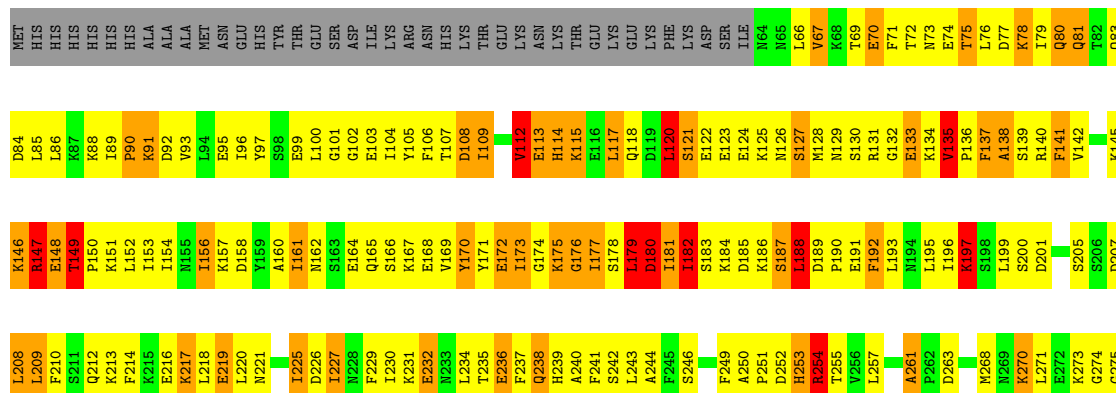
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	O	4	Total 4	Ca 4	0	0
4	P	4	Total 4	Ca 4	0	0
4	Q	4	Total 4	Ca 4	0	0
4	R	4	Total 4	Ca 4	0	0
4	S	4	Total 4	Ca 4	0	0
4	T	4	Total 4	Ca 4	0	0

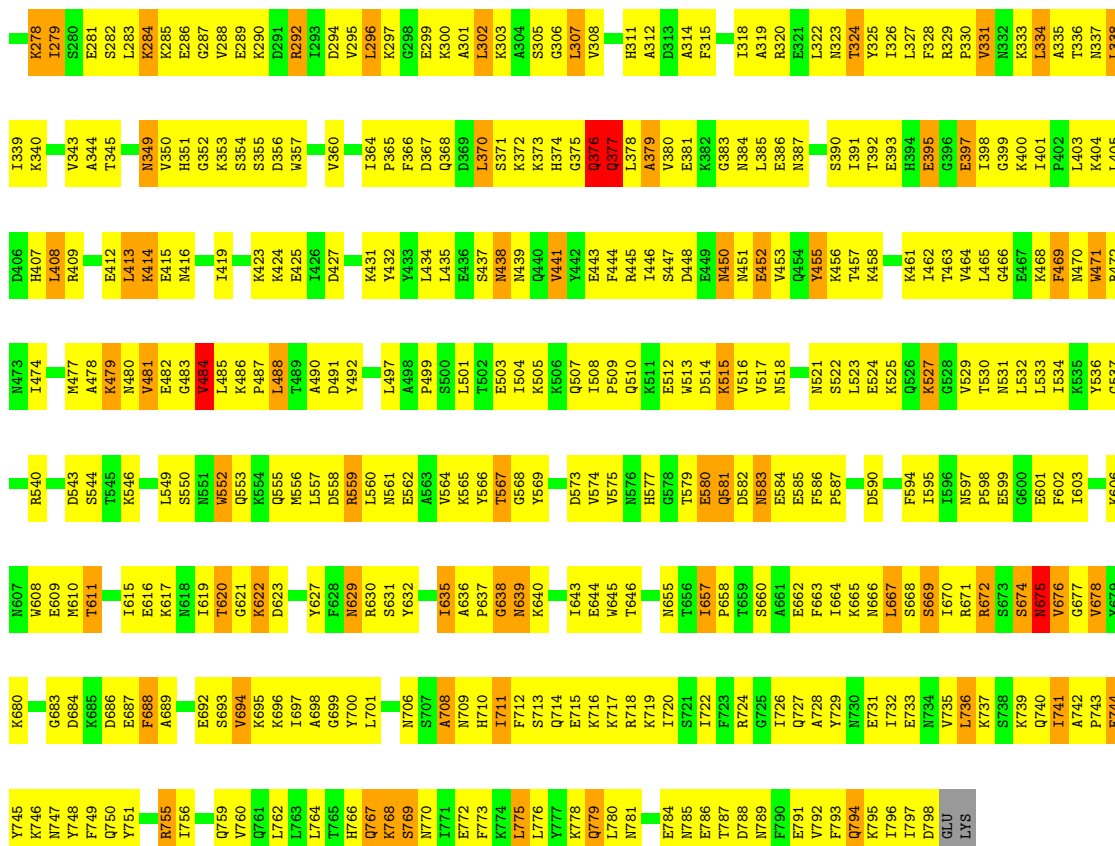




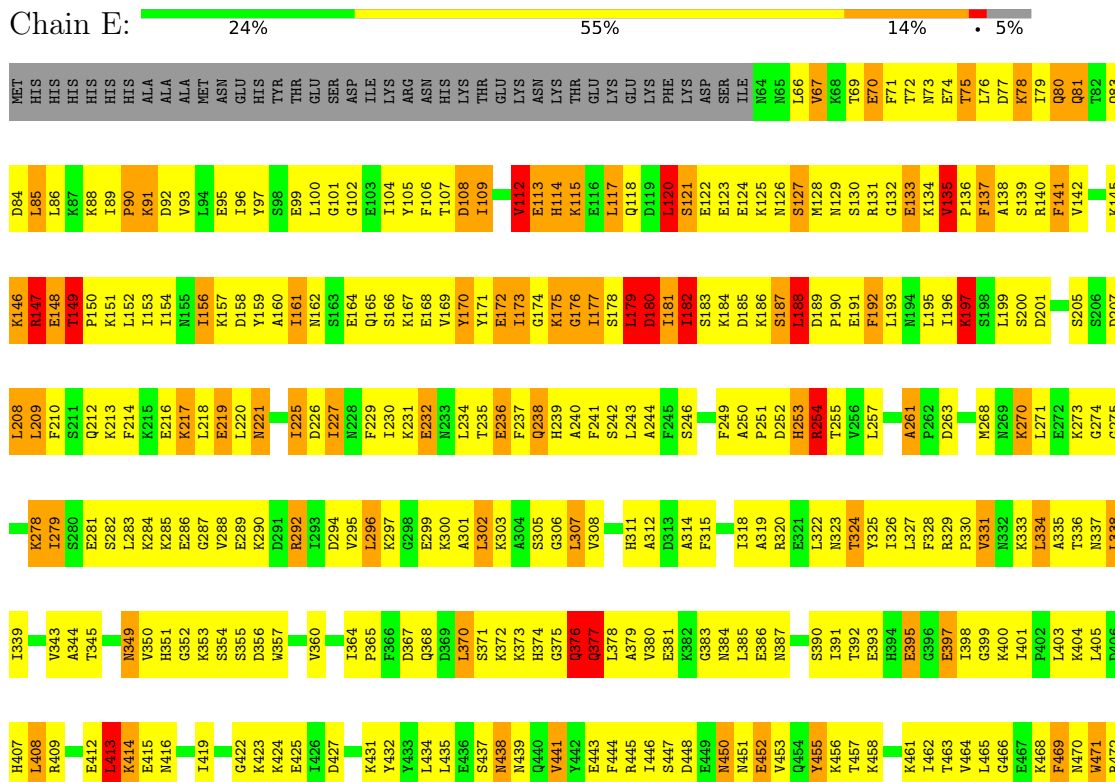
• Molecule 1: Calmodulin-sensitive adenylylate cyclase

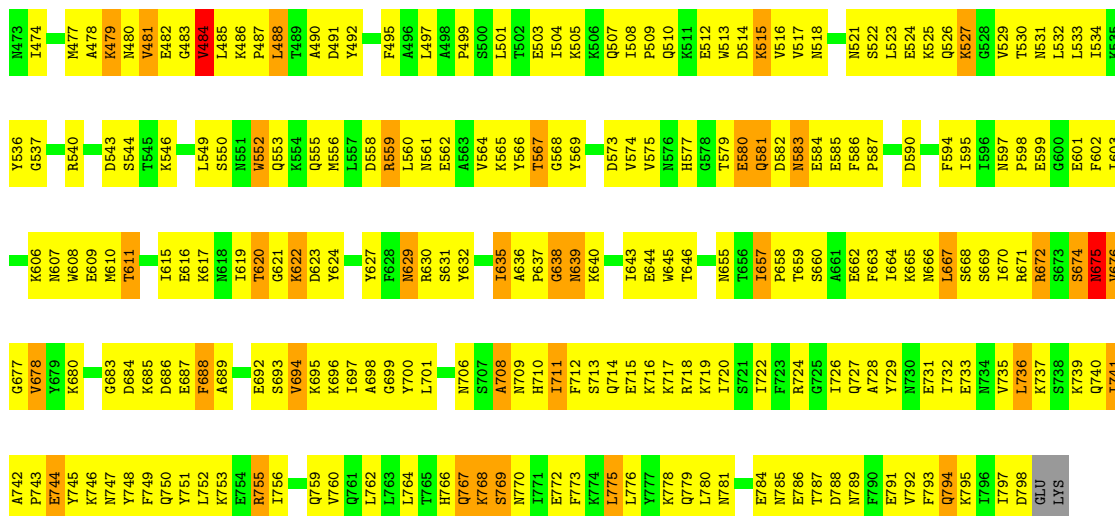
Chain D: 25% 54% 14% 5%



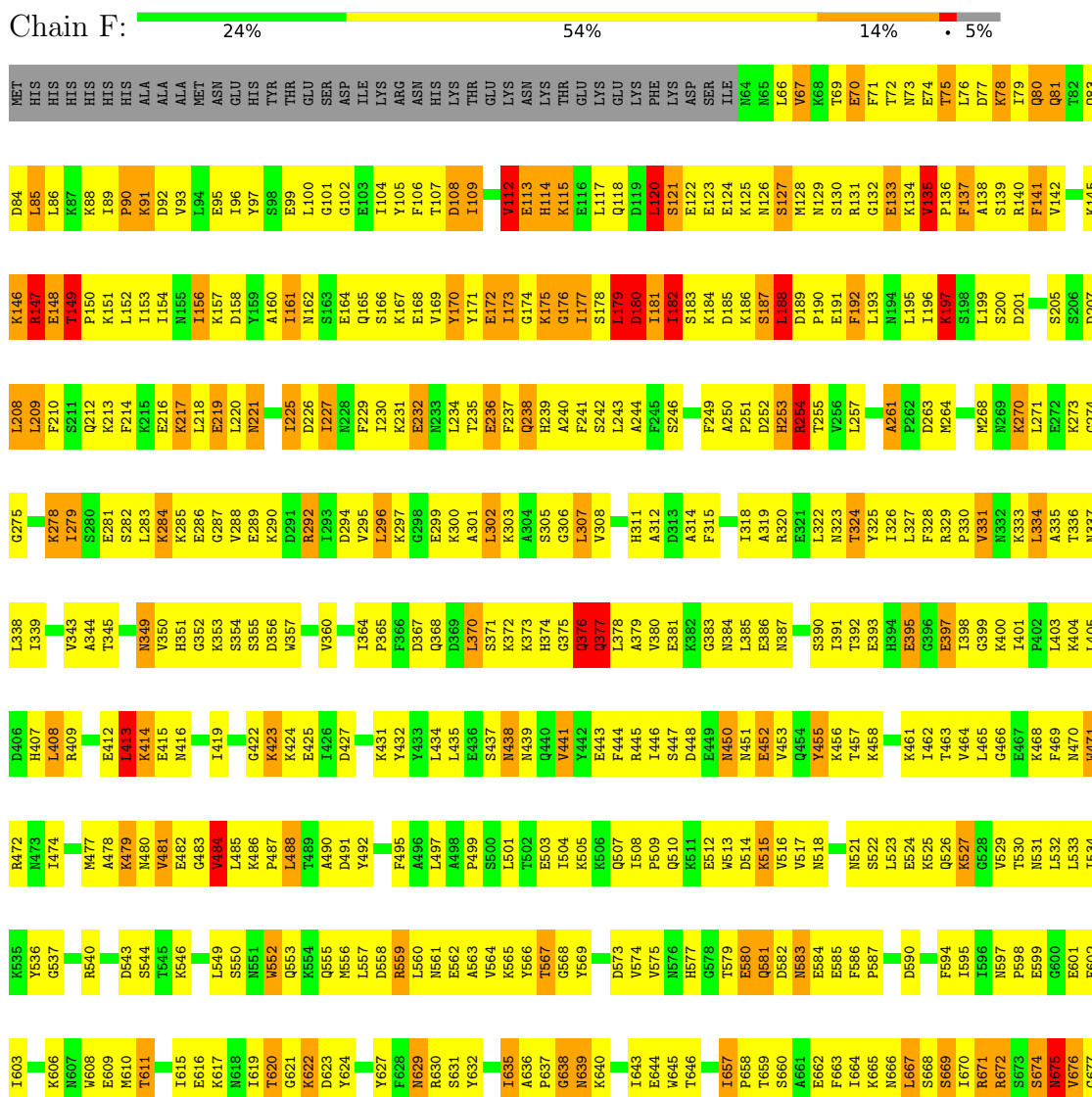


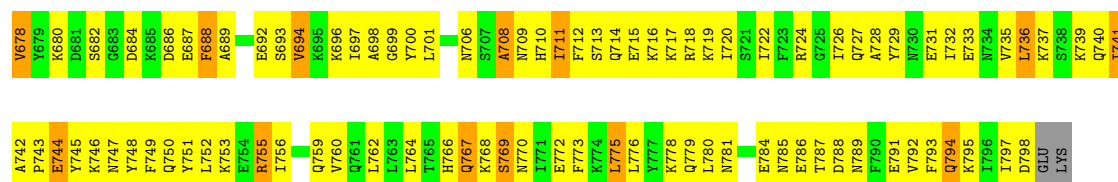
- Molecule 1: Calmodulin-sensitive adenylate cyclase



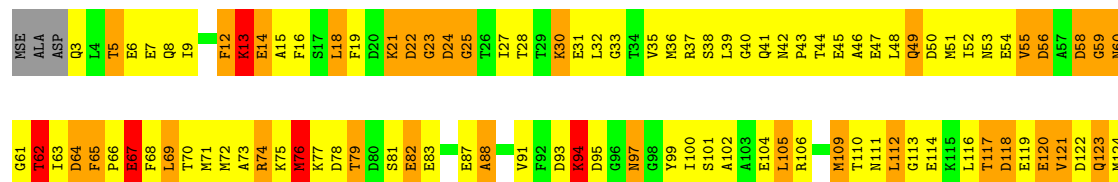


- Molecule 1: Calmodulin-sensitive adenylate cyclase

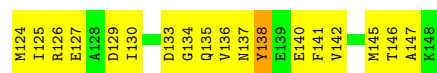
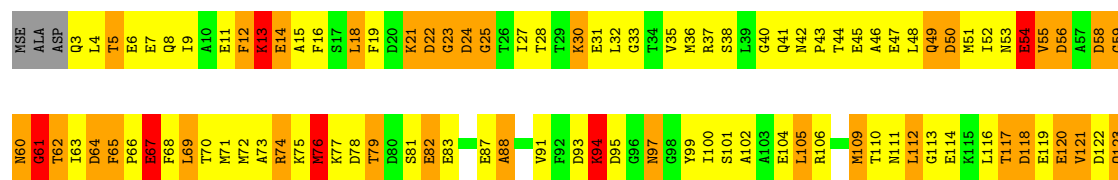
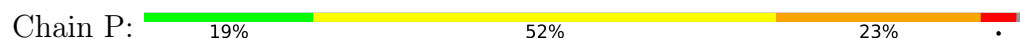




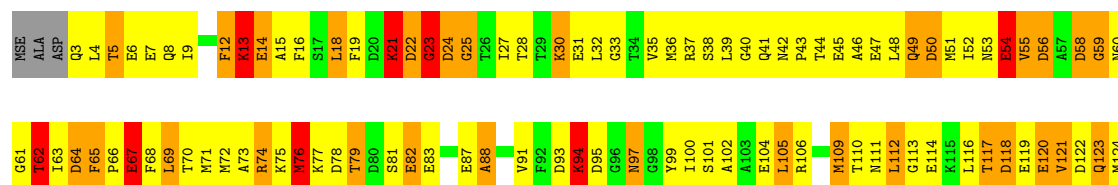
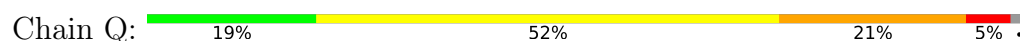
• Molecule 2: Calmodulin 2



• Molecule 2: Calmodulin 2

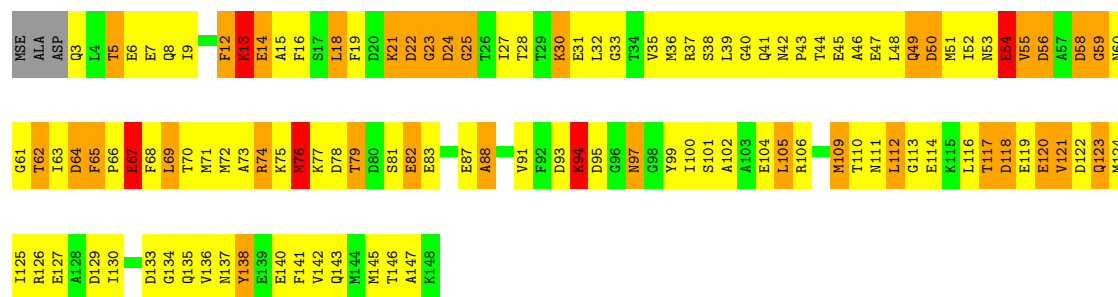


• Molecule 2: Calmodulin 2



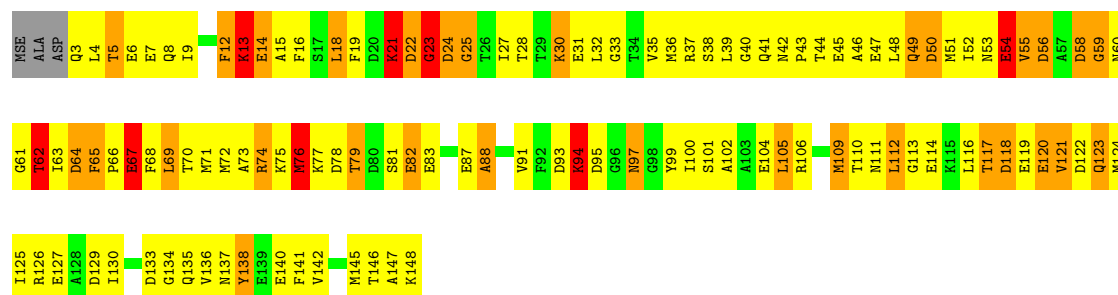
• Molecule 2: Calmodulin 2





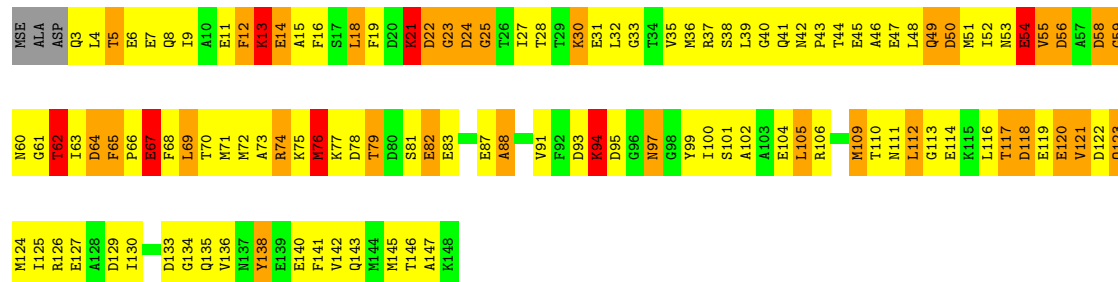
• Molecule 2: Calmodulin 2

Chain S: 18% 54% 21% 5% .



• Molecule 2: Calmodulin 2

Chain T: 18% 54% 21% 5% .



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	318.30Å 183.76Å 141.52Å 90.00° 90.02° 90.00°	Depositor
Resolution (Å)	17.45 – 3.20 17.45 – 3.20	Depositor EDS
% Data completeness (in resolution range)	96.1 (17.45-3.20) 96.1 (17.45-3.20)	Depositor EDS
R_{merge}	0.04	Depositor
R_{sym}	0.03	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.44 (at 3.21Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.262 , 0.278 0.251 , 0.266	Depositor DCC
R_{free} test set	6706 reflections (5.07%)	wwPDB-VP
Wilson B-factor (Å ²)	97.1	Xtriage
Anisotropy	0.049	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.23 , 82.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.479 for -1/2*h-3/2*k,-1/2*h+1/2*k,-l 0.480 for -1/2*h+3/2*k,1/2*h+1/2*k,-l 0.478 for 1/2*h-3/2*k,-1/2*h-1/2*k,-l 0.480 for 1/2*h+3/2*k,1/2*h-1/2*k,-l 0.479 for -h,-k,l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	42858	wwPDB-VP
Average B, all atoms (Å ²)	87.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.64% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: MG, CA

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.70	2/6104 (0.0%)	1.26	70/8208 (0.9%)
1	B	0.70	2/6104 (0.0%)	1.26	72/8208 (0.9%)
1	C	0.70	2/6104 (0.0%)	1.26	69/8208 (0.8%)
1	D	0.70	2/6104 (0.0%)	1.26	72/8208 (0.9%)
1	E	0.70	2/6104 (0.0%)	1.26	71/8208 (0.9%)
1	F	0.70	2/6104 (0.0%)	1.26	72/8208 (0.9%)
2	O	0.83	3/1149 (0.3%)	1.29	13/1526 (0.9%)
2	P	0.87	4/1149 (0.3%)	1.29	14/1526 (0.9%)
2	Q	0.81	3/1149 (0.3%)	1.27	14/1526 (0.9%)
2	R	0.82	3/1149 (0.3%)	1.27	14/1526 (0.9%)
2	S	0.82	3/1149 (0.3%)	1.26	14/1526 (0.9%)
2	T	0.84	4/1149 (0.3%)	1.27	14/1526 (0.9%)
All	All	0.72	32/43518 (0.1%)	1.26	509/58404 (0.9%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
1	B	0	1
1	C	0	1
1	D	0	1
1	E	0	1
1	F	0	1
2	O	0	1
2	P	0	3
2	Q	0	3
2	R	0	3
2	S	0	3

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Mol	Chain	#Chirality outliers	#Planarity outliers
2	T	0	3
All	All	0	22

All (32) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	179	LEU	C-O	-9.17	1.11	1.24
2	P	61	GLY	C-O	9.07	1.36	1.23
1	B	179	LEU	C-O	-9.00	1.12	1.24
1	E	179	LEU	C-O	-8.99	1.12	1.24
1	A	179	LEU	C-O	-8.94	1.12	1.24
1	D	179	LEU	C-O	-8.93	1.12	1.24
1	C	179	LEU	C-O	-8.92	1.12	1.24
1	B	127	SER	C-O	-7.72	1.14	1.24
1	A	127	SER	C-O	-7.66	1.14	1.24
1	F	127	SER	C-O	-7.57	1.14	1.24
1	C	127	SER	C-O	-7.57	1.14	1.24
1	D	127	SER	C-O	-7.54	1.14	1.24
1	E	127	SER	C-O	-7.52	1.14	1.24
2	S	62	THR	CB-CG2	6.65	1.74	1.52
2	R	62	THR	CB-CG2	6.56	1.74	1.52
2	T	62	THR	CB-CG2	6.44	1.73	1.52
2	O	62	THR	CB-CG2	6.36	1.73	1.52
2	P	62	THR	CB-CG2	6.06	1.72	1.52
2	T	59	GLY	N-CA	-5.92	1.36	1.45
2	Q	62	THR	CB-CG2	5.83	1.71	1.52
2	R	76	MSE	SE-CE	-5.40	1.79	1.95
2	S	76	MSE	SE-CE	-5.39	1.79	1.95
2	O	76	MSE	SE-CE	-5.39	1.79	1.95
2	P	76	MSE	SE-CE	-5.38	1.79	1.95
2	Q	76	MSE	SE-CE	-5.38	1.79	1.95
2	T	76	MSE	SE-CE	-5.37	1.79	1.95
2	R	76	MSE	CG-SE	-5.13	1.80	1.95
2	Q	76	MSE	CG-SE	-5.13	1.80	1.95
2	O	76	MSE	CG-SE	-5.12	1.80	1.95
2	T	76	MSE	CG-SE	-5.12	1.80	1.95
2	P	76	MSE	CG-SE	-5.11	1.80	1.95
2	S	76	MSE	CG-SE	-5.10	1.80	1.95

All (509) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	147	ARG	N-CA-C	23.94	136.69	111.07
1	E	147	ARG	N-CA-C	23.66	136.38	111.07
1	C	147	ARG	N-CA-C	23.60	136.32	111.07
1	D	147	ARG	N-CA-C	23.56	136.28	111.07
1	F	147	ARG	N-CA-C	23.32	136.39	110.97
1	A	147	ARG	N-CA-C	23.28	136.28	111.14
1	F	160	ALA	N-CA-C	16.61	134.48	111.56
1	D	160	ALA	N-CA-C	16.55	134.40	111.56
1	E	160	ALA	N-CA-C	16.55	134.40	111.56
1	A	160	ALA	N-CA-C	16.54	134.38	111.56
1	C	160	ALA	N-CA-C	16.52	134.36	111.56
1	B	160	ALA	N-CA-C	16.52	134.35	111.56
1	B	188	LEU	N-CA-C	-15.10	78.63	110.80
1	F	188	LEU	N-CA-C	-15.07	78.71	110.80
1	A	188	LEU	N-CA-C	-15.05	78.73	110.80
1	C	188	LEU	N-CA-C	-15.05	78.75	110.80
1	D	188	LEU	N-CA-C	-15.04	78.75	110.80
1	E	188	LEU	N-CA-C	-15.01	78.82	110.80
1	E	219	GLU	N-CA-C	-12.35	98.64	112.72
1	F	219	GLU	N-CA-C	-12.29	98.71	112.72
1	C	219	GLU	N-CA-C	-12.25	98.75	112.72
1	B	219	GLU	N-CA-C	-12.24	98.76	112.72
1	A	219	GLU	N-CA-C	-12.18	98.84	112.72
1	D	219	GLU	N-CA-C	-12.14	98.88	112.72
1	F	227	ILE	N-CA-C	-11.38	101.98	113.47
1	B	227	ILE	N-CA-C	-11.37	101.98	113.47
1	C	227	ILE	N-CA-C	-11.37	101.99	113.47
1	A	227	ILE	N-CA-C	-11.35	102.01	113.47
1	E	227	ILE	N-CA-C	-11.31	102.04	113.47
1	D	227	ILE	N-CA-C	-11.28	102.07	113.47
1	A	261	ALA	N-CA-C	-11.24	95.67	109.72
1	E	261	ALA	N-CA-C	-11.24	95.67	109.72
1	B	261	ALA	N-CA-C	-11.23	95.68	109.72
1	F	261	ALA	N-CA-C	-11.23	95.68	109.72
1	D	261	ALA	N-CA-C	-11.14	95.80	109.72
1	C	261	ALA	N-CA-C	-11.10	95.84	109.72
1	F	132	GLY	N-CA-C	-10.83	97.87	112.82
1	B	149	THR	N-CA-C	-10.80	95.38	110.29
1	D	132	GLY	N-CA-C	-10.76	97.97	112.82
1	B	132	GLY	N-CA-C	-10.75	97.98	112.82
1	A	149	THR	N-CA-C	-10.74	95.47	110.29
1	E	149	THR	N-CA-C	-10.71	95.51	110.29
1	C	132	GLY	N-CA-C	-10.70	98.05	112.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	149	THR	N-CA-C	-10.70	95.53	110.29
1	E	132	GLY	N-CA-C	-10.57	98.23	112.82
1	C	149	THR	N-CA-C	-10.56	95.71	110.29
1	A	132	GLY	N-CA-C	-10.56	98.25	112.82
1	F	149	THR	N-CA-C	-10.55	95.73	110.29
2	T	59	GLY	N-CA-C	-10.43	88.47	113.18
2	P	59	GLY	N-CA-C	-9.82	89.90	113.18
1	D	129	ASN	N-CA-C	9.60	131.25	110.80
2	S	59	GLY	N-CA-C	-9.57	90.49	113.18
1	B	129	ASN	N-CA-C	9.56	131.17	110.80
1	C	129	ASN	N-CA-C	9.54	131.11	110.80
1	A	129	ASN	N-CA-C	9.53	131.09	110.80
1	F	129	ASN	N-CA-C	9.51	131.07	110.80
1	E	129	ASN	N-CA-C	9.50	131.03	110.80
1	E	622	LYS	CA-C-N	-9.31	108.64	122.24
1	E	622	LYS	C-N-CA	-9.31	108.64	122.24
2	O	59	GLY	N-CA-C	-9.30	91.13	113.18
1	D	622	LYS	CA-C-N	-9.26	108.72	122.24
1	D	622	LYS	C-N-CA	-9.26	108.72	122.24
1	A	622	LYS	CA-C-N	-9.15	108.88	122.24
1	A	622	LYS	C-N-CA	-9.15	108.88	122.24
1	C	622	LYS	CA-C-N	-9.15	108.89	122.24
1	C	622	LYS	C-N-CA	-9.15	108.89	122.24
1	B	622	LYS	CA-C-N	-9.03	109.06	122.24
1	B	622	LYS	C-N-CA	-9.03	109.06	122.24
1	F	552	TRP	N-CA-C	-8.98	101.49	111.28
1	B	770	ASN	N-CA-C	-8.96	102.36	113.38
1	B	552	TRP	N-CA-C	-8.95	101.50	111.07
1	E	770	ASN	N-CA-C	-8.95	102.38	113.38
1	D	770	ASN	N-CA-C	-8.95	102.38	113.38
2	Q	59	GLY	N-CA-C	-8.94	91.98	113.18
1	F	622	LYS	CA-C-N	-8.92	109.21	122.24
1	F	622	LYS	C-N-CA	-8.92	109.21	122.24
1	F	622	LYS	N-CA-C	-8.92	95.76	108.07
1	B	622	LYS	N-CA-C	-8.89	95.80	108.07
2	R	59	GLY	N-CA-C	-8.89	92.11	113.18
1	E	622	LYS	N-CA-C	-8.87	95.83	108.07
1	D	552	TRP	N-CA-C	-8.84	101.65	111.28
1	A	770	ASN	N-CA-C	-8.79	102.56	113.38
1	E	552	TRP	N-CA-C	-8.79	101.70	111.28
1	C	622	LYS	N-CA-C	-8.77	95.97	108.07
1	A	622	LYS	N-CA-C	-8.77	95.97	108.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	552	TRP	N-CA-C	-8.76	101.73	111.28
1	F	770	ASN	N-CA-C	-8.75	102.62	113.38
1	D	622	LYS	N-CA-C	-8.72	96.03	108.07
1	A	552	TRP	N-CA-C	-8.65	101.86	111.28
1	C	162	ASN	N-CA-C	8.64	120.78	111.36
1	C	770	ASN	N-CA-C	-8.60	102.80	113.38
1	E	162	ASN	N-CA-C	8.54	120.67	111.36
1	D	162	ASN	N-CA-C	8.48	120.60	111.36
1	A	162	ASN	N-CA-C	8.47	120.59	111.36
1	B	162	ASN	N-CA-C	8.45	120.57	111.36
1	F	162	ASN	N-CA-C	8.43	120.55	111.36
1	C	674	SER	N-CA-C	-8.22	93.52	107.99
1	F	674	SER	N-CA-C	-8.22	93.53	107.99
1	A	674	SER	N-CA-C	-8.19	93.57	107.99
1	D	674	SER	N-CA-C	-8.17	93.62	107.99
1	B	674	SER	N-CA-C	-8.15	93.65	107.99
1	B	768	LYS	N-CA-C	-8.11	95.68	108.90
1	E	768	LYS	N-CA-C	-8.07	95.75	108.90
1	E	674	SER	N-CA-C	-8.06	93.81	107.99
1	D	768	LYS	N-CA-C	-8.03	95.81	108.90
1	F	768	LYS	N-CA-C	-8.00	95.86	108.90
1	C	768	LYS	N-CA-C	-7.99	95.87	108.90
1	A	769	SER	N-CA-C	7.98	121.09	110.88
2	P	105	LEU	N-CA-C	-7.96	102.20	111.03
1	A	768	LYS	N-CA-C	-7.94	95.96	108.90
1	B	769	SER	N-CA-C	7.93	121.03	110.88
1	F	769	SER	N-CA-C	7.93	121.03	110.88
1	E	769	SER	N-CA-C	7.92	121.01	110.88
2	R	105	LEU	N-CA-C	-7.90	102.26	111.03
2	Q	105	LEU	N-CA-C	-7.88	102.28	111.03
1	D	769	SER	N-CA-C	7.87	120.95	110.88
2	S	105	LEU	N-CA-C	-7.85	102.32	111.03
2	R	88	ALA	N-CA-C	-7.84	102.68	111.07
2	T	105	LEU	N-CA-C	-7.84	102.33	111.03
1	C	769	SER	N-CA-C	7.80	120.86	110.88
2	O	105	LEU	N-CA-C	-7.79	102.39	111.03
2	Q	88	ALA	N-CA-C	-7.78	102.75	111.07
1	F	767	GLN	N-CA-C	7.73	121.23	108.48
1	A	767	GLN	N-CA-C	7.72	121.21	108.48
1	D	767	GLN	N-CA-C	7.69	121.17	108.48
1	E	767	GLN	N-CA-C	7.68	121.15	108.48
1	B	767	GLN	N-CA-C	7.67	121.13	108.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	T	88	ALA	N-CA-C	-7.65	102.89	111.07
1	C	767	GLN	N-CA-C	7.64	121.09	108.48
2	O	88	ALA	N-CA-C	-7.59	102.95	111.07
2	P	88	ALA	N-CA-C	-7.58	102.96	111.07
1	E	254	ARG	N-CA-C	-7.51	104.08	113.55
1	C	254	ARG	N-CA-C	-7.50	104.10	113.55
1	B	708	ALA	N-CA-C	-7.47	103.75	113.17
2	S	88	ALA	N-CA-C	-7.45	103.09	111.07
1	A	254	ARG	N-CA-C	-7.44	104.17	113.55
1	B	254	ARG	N-CA-C	-7.42	104.21	113.55
1	A	708	ALA	N-CA-C	-7.39	103.85	113.17
1	F	254	ARG	N-CA-C	-7.39	104.23	113.55
1	B	187	SER	N-CA-C	7.35	120.23	111.33
1	D	146	LYS	N-CA-C	7.35	126.45	110.80
1	B	676	VAL	N-CA-C	7.35	118.59	108.89
1	A	676	VAL	N-CA-C	7.34	118.58	108.89
1	F	708	ALA	N-CA-C	-7.34	103.92	113.17
1	D	708	ALA	N-CA-C	-7.34	103.92	113.17
1	D	254	ARG	N-CA-C	-7.33	104.31	113.55
1	F	146	LYS	N-CA-C	7.33	126.42	110.80
1	A	146	LYS	N-CA-C	7.31	126.37	110.80
1	C	676	VAL	N-CA-C	7.28	118.50	108.89
1	E	146	LYS	N-CA-C	7.28	126.30	110.80
1	C	146	LYS	N-CA-C	7.27	126.29	110.80
1	E	187	SER	N-CA-C	7.27	120.13	111.33
1	B	146	LYS	N-CA-C	7.26	126.27	110.80
1	C	708	ALA	N-CA-C	-7.23	104.06	113.17
1	E	708	ALA	N-CA-C	-7.22	104.07	113.17
1	F	187	SER	N-CA-C	7.19	120.03	111.33
1	E	676	VAL	N-CA-C	7.19	118.38	108.89
1	D	676	VAL	N-CA-C	7.17	118.35	108.89
1	E	657	ILE	CA-C-N	7.14	127.07	120.21
1	E	657	ILE	C-N-CA	7.14	127.07	120.21
2	Q	121	VAL	N-CA-C	-7.12	104.78	111.48
1	F	676	VAL	N-CA-C	7.12	118.29	108.89
2	P	54	GLU	O-C-N	-7.12	112.53	122.06
1	D	187	SER	N-CA-C	7.10	119.92	111.33
2	O	121	VAL	N-CA-C	-7.09	104.81	111.48
1	E	173	ILE	N-CA-C	-7.07	103.97	110.82
2	T	121	VAL	N-CA-C	-7.02	104.88	111.48
1	C	187	SER	N-CA-C	7.01	119.81	111.33
2	Q	54	GLU	O-C-N	-7.00	112.68	122.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	179	LEU	N-CA-C	6.99	121.90	113.23
2	R	121	VAL	N-CA-C	-6.99	104.91	111.48
1	A	187	SER	N-CA-C	6.94	119.73	111.33
1	A	657	ILE	CA-C-N	6.94	126.87	120.21
1	A	657	ILE	C-N-CA	6.94	126.87	120.21
2	P	121	VAL	N-CA-C	-6.94	104.95	111.48
1	D	173	ILE	N-CA-C	-6.91	104.11	110.82
2	S	54	GLU	O-C-N	-6.89	112.83	122.06
2	R	54	GLU	O-C-N	-6.88	112.85	122.06
1	E	179	LEU	N-CA-C	6.87	121.75	113.23
1	F	179	LEU	N-CA-C	6.87	121.75	113.23
1	B	179	LEU	N-CA-C	6.86	121.74	113.23
1	C	179	LEU	N-CA-C	6.84	121.72	113.23
2	S	121	VAL	N-CA-C	-6.83	105.06	111.48
1	C	657	ILE	CA-C-N	6.79	126.73	120.21
1	C	657	ILE	C-N-CA	6.79	126.73	120.21
1	A	173	ILE	N-CA-C	-6.78	104.24	110.82
1	F	225	ILE	N-CA-C	6.78	123.44	109.34
1	B	225	ILE	N-CA-C	6.77	123.41	109.34
1	D	179	LEU	N-CA-C	6.76	121.61	113.23
1	E	225	ILE	N-CA-C	6.75	123.38	109.34
1	D	657	ILE	CA-C-N	6.73	126.67	120.21
1	D	657	ILE	C-N-CA	6.73	126.67	120.21
1	B	173	ILE	N-CA-C	-6.72	104.21	110.53
1	A	225	ILE	N-CA-C	6.70	123.27	109.34
1	F	173	ILE	N-CA-C	-6.70	104.23	110.53
1	C	225	ILE	N-CA-C	6.69	123.25	109.34
1	F	657	ILE	CA-C-N	6.67	126.62	120.21
1	F	657	ILE	C-N-CA	6.67	126.62	120.21
1	F	623	ASP	N-CA-C	6.67	119.05	110.65
1	D	225	ILE	N-CA-C	6.65	123.17	109.34
1	C	173	ILE	N-CA-C	-6.63	104.29	110.53
1	A	623	ASP	N-CA-C	6.61	118.98	110.65
1	E	120	LEU	N-CA-C	6.60	124.86	110.80
1	D	736	LEU	N-CA-C	-6.59	104.50	112.54
1	E	736	LEU	N-CA-C	-6.59	104.50	112.54
1	C	623	ASP	N-CA-C	6.57	118.93	110.65
1	B	657	ILE	CA-C-N	6.56	126.51	120.21
1	B	657	ILE	C-N-CA	6.56	126.51	120.21
1	C	120	LEU	N-CA-C	6.56	124.77	110.80
1	A	120	LEU	N-CA-C	6.54	124.72	110.80
1	B	623	ASP	N-CA-C	6.53	118.88	110.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	608	TRP	N-CA-C	-6.53	104.17	111.28
2	R	58	ASP	CA-CB-CG	-6.51	106.08	112.60
1	D	120	LEU	N-CA-C	6.50	124.66	110.80
2	Q	58	ASP	CA-CB-CG	-6.50	106.09	112.60
1	F	120	LEU	N-CA-C	6.50	124.65	110.80
1	B	120	LEU	N-CA-C	6.50	124.64	110.80
1	B	608	TRP	N-CA-C	-6.49	104.20	111.28
2	S	58	ASP	CA-CB-CG	-6.49	106.11	112.60
2	O	58	ASP	CA-CB-CG	-6.49	106.11	112.60
1	D	238	GLN	N-CA-C	-6.46	104.08	112.68
1	E	238	GLN	N-CA-C	-6.46	104.08	112.68
1	F	736	LEU	N-CA-C	-6.46	104.66	112.54
2	P	58	ASP	CA-CB-CG	-6.45	106.15	112.60
2	T	58	ASP	CA-CB-CG	-6.45	106.16	112.60
1	B	295	VAL	N-CA-C	-6.44	98.36	108.86
1	F	238	GLN	N-CA-C	-6.44	104.11	112.68
1	A	238	GLN	N-CA-C	-6.43	104.12	112.68
1	D	623	ASP	N-CA-C	6.43	118.76	110.65
1	D	694	VAL	N-CA-C	-6.42	104.00	111.00
1	C	736	LEU	N-CA-C	-6.41	104.72	112.54
1	D	577	HIS	N-CA-C	6.41	116.73	108.34
1	C	238	GLN	N-CA-C	-6.38	104.20	112.68
1	A	608	TRP	N-CA-C	-6.36	104.34	111.28
1	B	238	GLN	N-CA-C	-6.36	104.22	112.68
1	B	736	LEU	N-CA-C	-6.36	104.78	112.54
1	A	694	VAL	N-CA-C	-6.36	104.07	111.00
1	B	126	ASN	N-CA-C	-6.36	99.81	109.85
1	A	295	VAL	N-CA-C	-6.35	98.50	108.86
1	A	736	LEU	N-CA-C	-6.34	104.81	112.54
2	R	62	THR	OG1-CB-CG2	6.33	121.96	109.30
1	C	608	TRP	N-CA-C	-6.32	104.39	111.28
1	C	295	VAL	N-CA-C	-6.30	98.58	108.86
2	R	122	ASP	N-CA-C	-6.30	104.14	112.34
1	E	393	GLU	N-CA-C	6.30	117.81	111.07
1	C	694	VAL	N-CA-C	-6.30	104.14	111.00
1	E	694	VAL	N-CA-C	-6.29	104.14	111.00
1	A	393	GLU	N-CA-C	6.29	117.81	111.07
1	E	623	ASP	N-CA-C	6.29	118.58	110.65
2	T	54	GLU	O-C-N	-6.29	113.63	122.06
1	F	608	TRP	N-CA-C	-6.28	104.44	111.28
1	F	694	VAL	N-CA-C	-6.28	104.16	111.00
1	C	577	HIS	N-CA-C	6.27	116.55	108.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	295	VAL	N-CA-C	-6.27	98.64	108.86
2	Q	62	THR	OG1-CB-CG2	6.25	121.81	109.30
2	S	122	ASP	N-CA-C	-6.25	104.21	112.34
2	P	122	ASP	N-CA-C	-6.24	104.23	112.34
1	C	393	GLU	N-CA-C	6.23	117.74	111.07
2	Q	122	ASP	N-CA-C	-6.23	104.25	112.34
1	E	126	ASN	N-CA-C	-6.22	100.01	109.85
1	E	295	VAL	N-CA-C	-6.22	98.71	108.86
2	T	122	ASP	N-CA-C	-6.21	104.26	112.34
1	B	694	VAL	N-CA-C	-6.21	104.23	111.00
1	A	126	ASN	N-CA-C	-6.21	100.04	109.85
1	B	450	ASN	N-CA-C	-6.21	100.04	109.85
2	O	122	ASP	N-CA-C	-6.20	104.28	112.34
2	P	62	THR	OG1-CB-CG2	6.19	121.67	109.30
1	D	469	PHE	N-CA-C	6.17	118.15	108.96
1	F	295	VAL	N-CA-C	-6.16	98.82	108.86
1	A	577	HIS	N-CA-C	6.14	116.38	108.34
1	F	393	GLU	N-CA-C	6.13	117.64	111.07
1	D	393	GLU	N-CA-C	6.13	117.63	111.07
1	E	577	HIS	N-CA-C	6.12	116.36	108.34
1	E	791	GLU	N-CA-C	-6.12	104.69	111.36
1	F	791	GLU	N-CA-C	-6.12	104.69	111.36
1	B	393	GLU	N-CA-C	6.11	117.61	111.07
1	E	608	TRP	N-CA-C	-6.11	104.62	111.28
1	A	791	GLU	N-CA-C	-6.09	104.72	111.36
1	B	469	PHE	N-CA-C	6.09	118.03	108.96
1	F	469	PHE	N-CA-C	6.09	118.03	108.96
1	D	126	ASN	N-CA-C	-6.08	100.25	109.85
1	D	450	ASN	N-CA-C	-6.07	100.25	109.85
1	C	126	ASN	N-CA-C	-6.07	100.26	109.85
2	O	62	THR	OG1-CB-CG2	6.07	121.44	109.30
1	F	577	HIS	N-CA-C	6.06	116.28	108.34
1	B	791	GLU	N-CA-C	-6.06	104.76	111.36
1	E	469	PHE	N-CA-C	6.06	117.99	108.96
1	B	300	LYS	N-CA-C	-6.05	104.80	111.82
1	C	450	ASN	N-CA-C	-6.05	100.29	109.85
1	A	469	PHE	N-CA-C	6.04	117.96	108.96
1	D	791	GLU	N-CA-C	-6.03	104.78	111.36
1	A	488	LEU	N-CA-C	6.02	119.52	109.95
1	F	126	ASN	N-CA-C	-6.02	100.34	109.85
1	D	72	THR	N-CA-C	-6.01	103.31	111.55
1	C	791	GLU	N-CA-C	-6.01	104.81	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	300	LYS	N-CA-C	-6.01	104.85	111.82
1	C	469	PHE	N-CA-C	6.00	117.91	108.96
1	F	566	TYR	N-CA-C	-6.00	105.09	113.37
1	E	300	LYS	N-CA-C	-6.00	104.87	111.82
1	A	566	TYR	N-CA-C	-5.98	105.11	113.37
1	A	733	GLU	N-CA-C	-5.98	104.76	111.28
2	T	62	THR	OG1-CB-CG2	5.98	121.26	109.30
1	B	667	LEU	N-CA-C	-5.98	103.53	111.24
1	B	577	HIS	N-CA-C	5.98	116.17	108.34
1	E	566	TYR	N-CA-C	-5.97	105.12	113.37
1	A	300	LYS	N-CA-C	-5.97	104.89	111.82
2	S	62	THR	OG1-CB-CG2	5.97	121.23	109.30
1	D	566	TYR	N-CA-C	-5.96	105.14	113.37
1	E	611	THR	N-CA-C	-5.95	104.70	111.07
1	D	733	GLU	N-CA-C	-5.95	104.79	111.28
1	B	488	LEU	N-CA-C	5.94	119.40	109.95
1	E	733	GLU	N-CA-C	-5.94	104.81	111.28
1	B	566	TYR	N-CA-C	-5.93	105.19	113.37
1	E	72	THR	N-CA-C	-5.93	103.43	111.55
1	C	566	TYR	N-CA-C	-5.91	105.22	113.37
1	E	488	LEU	N-CA-C	5.90	119.34	109.95
1	F	300	LYS	N-CA-C	-5.90	104.97	111.82
1	F	488	LEU	N-CA-C	5.90	119.34	109.95
1	C	611	THR	N-CA-C	-5.88	104.78	111.07
1	B	733	GLU	N-CA-C	-5.88	104.87	111.28
1	B	90	PRO	N-CA-C	5.87	120.45	110.95
1	C	72	THR	N-CA-C	-5.86	103.52	111.55
1	F	384	ASN	N-CA-C	-5.85	104.81	111.07
1	E	90	PRO	N-CA-C	5.85	120.43	110.95
1	C	300	LYS	N-CA-C	-5.85	105.04	111.82
1	D	488	LEU	N-CA-C	5.84	119.23	109.95
1	E	450	ASN	N-CA-C	-5.84	100.38	109.72
2	P	79	THR	N-CA-C	5.84	118.69	110.23
1	F	733	GLU	N-CA-C	-5.83	104.92	111.28
1	A	667	LEU	N-CA-C	-5.83	103.72	111.24
1	C	90	PRO	N-CA-C	5.82	120.38	110.95
1	A	384	ASN	N-CA-C	-5.82	104.84	111.07
1	A	611	THR	N-CA-C	-5.81	104.85	111.07
1	C	148	GLU	CA-C-O	5.81	123.81	119.68
1	F	667	LEU	N-CA-C	-5.80	103.76	111.24
1	D	90	PRO	N-CA-C	5.80	120.34	110.95
1	E	384	ASN	N-CA-C	-5.79	104.87	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	148	GLU	CA-C-O	5.79	123.79	119.68
1	F	72	THR	N-CA-C	-5.79	103.61	111.55
1	A	450	ASN	N-CA-C	-5.79	100.46	109.72
1	F	450	ASN	N-CA-C	-5.79	100.46	109.72
1	F	90	PRO	N-CA-C	5.78	120.32	110.95
1	A	90	PRO	N-CA-C	5.78	120.31	110.95
1	D	611	THR	N-CA-C	-5.78	104.89	111.07
2	R	79	THR	N-CA-C	5.78	118.60	110.23
1	B	384	ASN	N-CA-C	-5.77	104.89	111.07
1	C	733	GLU	N-CA-C	-5.77	104.99	111.28
2	S	79	THR	N-CA-C	5.76	118.58	110.23
1	E	208	LEU	N-CA-C	-5.76	103.52	111.81
1	E	148	GLU	CA-C-O	5.76	123.77	119.68
1	D	384	ASN	N-CA-C	-5.75	104.92	111.07
1	C	384	ASN	N-CA-C	-5.75	104.92	111.07
1	A	72	THR	N-CA-C	-5.74	103.69	111.55
1	B	148	GLU	CA-C-O	5.73	123.75	119.68
2	T	79	THR	N-CA-C	5.73	118.53	110.23
1	F	611	THR	N-CA-C	-5.72	104.94	111.07
1	D	208	LEU	N-CA-C	-5.72	103.57	111.81
2	O	79	THR	N-CA-C	5.71	118.52	110.23
1	A	148	GLU	CA-C-O	5.71	123.73	119.68
1	C	488	LEU	N-CA-C	5.70	119.02	109.95
2	Q	79	THR	N-CA-C	5.70	118.50	110.23
1	E	546	LYS	N-CA-C	5.69	119.76	113.21
1	B	161	ILE	N-CA-C	5.69	121.64	113.16
1	D	148	GLU	CA-C-O	5.69	123.72	119.68
1	B	611	THR	N-CA-C	-5.69	104.98	111.07
2	P	112	LEU	N-CA-C	-5.69	106.32	113.20
1	C	667	LEU	N-CA-C	-5.68	103.91	111.24
1	C	208	LEU	N-CA-C	-5.68	103.64	111.81
1	F	208	LEU	N-CA-C	-5.66	103.67	111.81
1	B	121	SER	N-CA-C	-5.65	98.77	110.80
1	F	135	VAL	N-CA-C	5.65	121.08	108.88
1	F	161	ILE	N-CA-C	5.65	121.58	113.16
1	D	135	VAL	N-CA-C	5.64	121.07	108.88
1	D	67	VAL	N-CA-C	5.64	117.11	108.71
1	A	208	LEU	N-CA-C	-5.63	103.70	111.81
1	B	208	LEU	N-CA-C	-5.63	103.71	111.81
1	A	161	ILE	N-CA-C	5.62	121.54	113.16
2	T	112	LEU	N-CA-C	-5.62	106.40	113.20
1	B	675	ASN	N-CA-C	5.61	122.76	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Q	23	GLY	N-CA-C	5.61	126.48	113.18
1	D	121	SER	N-CA-C	-5.61	98.86	110.80
1	F	657	ILE	N-CA-C	-5.61	103.81	109.02
1	E	121	SER	N-CA-C	-5.60	98.86	110.80
1	A	675	ASN	N-CA-C	5.60	122.73	110.80
1	B	546	LYS	N-CA-C	5.60	119.65	113.21
1	E	657	ILE	N-CA-C	-5.59	103.82	109.02
1	E	667	LEU	N-CA-C	-5.59	104.02	111.24
1	A	121	SER	N-CA-C	-5.59	98.89	110.80
1	F	121	SER	N-CA-C	-5.59	98.89	110.80
1	B	72	THR	N-CA-C	-5.59	103.89	111.55
1	F	675	ASN	N-CA-C	5.59	122.70	110.80
1	D	675	ASN	N-CA-C	5.57	122.67	110.80
1	E	675	ASN	N-CA-C	5.57	122.66	110.80
1	C	121	SER	N-CA-C	-5.57	98.94	110.80
1	C	161	ILE	N-CA-C	5.56	121.45	113.16
1	A	135	VAL	N-CA-C	5.56	120.89	108.88
1	E	161	ILE	N-CA-C	5.56	121.44	113.16
1	D	546	LYS	N-CA-C	5.55	119.60	113.21
1	C	546	LYS	N-CA-C	5.54	119.59	113.21
1	C	135	VAL	N-CA-C	5.54	120.86	108.88
1	D	667	LEU	N-CA-C	-5.54	104.09	111.24
1	F	546	LYS	N-CA-C	5.54	119.58	113.21
1	D	657	ILE	N-CA-C	-5.54	103.87	109.02
2	S	112	LEU	N-CA-C	-5.54	106.50	113.20
1	C	675	ASN	N-CA-C	5.53	122.58	110.80
1	B	67	VAL	N-CA-C	5.53	116.95	108.71
2	O	112	LEU	N-CA-C	-5.53	106.51	113.20
2	R	112	LEU	N-CA-C	-5.52	106.52	113.20
2	P	23	GLY	N-CA-C	5.52	126.26	113.18
2	Q	112	LEU	N-CA-C	-5.51	106.53	113.20
1	A	546	LYS	N-CA-C	5.51	119.55	113.21
1	D	161	ILE	N-CA-C	5.50	121.36	113.16
1	E	67	VAL	N-CA-C	5.49	116.89	108.71
2	P	13	LYS	N-CA-C	-5.49	105.64	112.93
2	O	23	GLY	N-CA-C	5.48	126.17	113.18
2	R	23	GLY	N-CA-C	5.48	126.16	113.18
2	T	23	GLY	N-CA-C	5.47	126.15	113.18
2	S	23	GLY	N-CA-C	5.47	126.14	113.18
2	O	13	LYS	N-CA-C	-5.46	105.67	112.93
1	A	507	GLN	N-CA-C	-5.46	106.99	113.97
1	B	507	GLN	N-CA-C	-5.45	107.00	113.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	132	GLY	CA-C-N	-5.44	114.04	122.09
1	A	132	GLY	C-N-CA	-5.44	114.04	122.09
1	B	135	VAL	N-CA-C	5.43	120.62	108.88
2	S	13	LYS	N-CA-C	-5.43	105.71	112.93
2	Q	13	LYS	N-CA-C	-5.43	105.71	112.93
1	C	67	VAL	N-CA-C	5.42	116.78	108.71
1	A	67	VAL	N-CA-C	5.41	116.77	108.71
1	F	67	VAL	N-CA-C	5.41	116.77	108.71
1	C	132	GLY	CA-C-N	-5.41	114.09	122.09
1	C	132	GLY	C-N-CA	-5.41	114.09	122.09
1	D	132	GLY	CA-C-N	-5.39	114.11	122.09
1	D	132	GLY	C-N-CA	-5.39	114.11	122.09
1	B	253	HIS	N-CA-C	5.39	118.14	108.17
1	F	132	GLY	CA-C-N	-5.38	114.13	122.09
1	F	132	GLY	C-N-CA	-5.38	114.13	122.09
1	C	66	LEU	N-CA-C	5.38	116.82	111.07
1	D	270	LYS	N-CA-C	-5.37	105.42	111.28
2	R	13	LYS	N-CA-C	-5.37	105.78	112.93
1	D	253	HIS	N-CA-C	5.37	118.09	108.17
1	B	132	GLY	CA-C-N	-5.36	114.16	122.09
1	B	132	GLY	C-N-CA	-5.36	114.16	122.09
1	E	132	GLY	CA-C-N	-5.36	114.16	122.09
1	E	132	GLY	C-N-CA	-5.36	114.16	122.09
1	E	135	VAL	N-CA-C	5.34	120.41	108.88
1	E	270	LYS	N-CA-C	-5.33	105.47	111.28
1	C	507	GLN	N-CA-C	-5.32	107.16	113.97
1	B	270	LYS	N-CA-C	-5.31	105.49	111.28
1	E	81	GLN	N-CA-C	-5.31	105.92	112.72
1	D	507	GLN	N-CA-C	-5.31	107.18	113.97
2	T	13	LYS	N-CA-C	-5.31	105.87	112.93
1	A	657	ILE	N-CA-C	-5.30	104.09	109.02
1	C	81	GLN	N-CA-C	-5.30	105.94	112.72
1	C	197	LYS	N-CA-C	-5.30	105.68	111.82
1	F	507	GLN	N-CA-C	-5.29	106.84	113.72
1	A	81	GLN	N-CA-C	-5.29	105.95	112.72
1	A	253	HIS	N-CA-C	5.28	117.94	108.17
1	C	253	HIS	N-CA-C	5.28	117.93	108.17
1	E	507	GLN	N-CA-C	-5.28	107.22	113.97
1	F	253	HIS	N-CA-C	5.27	117.92	108.17
2	P	95	ASP	N-CA-C	5.26	119.80	113.17
1	D	81	GLN	N-CA-C	-5.26	105.99	112.72
1	A	197	LYS	N-CA-C	-5.25	105.73	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	O	95	ASP	N-CA-C	5.25	119.78	113.17
1	E	197	LYS	N-CA-C	-5.24	105.75	111.82
1	E	253	HIS	N-CA-C	5.24	117.86	108.17
2	Q	95	ASP	N-CA-C	5.23	119.76	113.17
1	F	81	GLN	N-CA-C	-5.23	106.03	112.72
1	F	197	LYS	N-CA-C	-5.22	105.76	111.82
2	T	94	LYS	N-CA-C	5.22	118.75	112.38
1	B	671	ARG	N-CA-C	-5.22	104.66	111.02
1	D	284	LYS	N-CA-C	-5.22	105.51	111.14
1	E	338	LEU	N-CA-C	-5.21	105.08	111.75
1	F	188	LEU	O-C-N	-5.19	115.69	122.59
1	F	671	ARG	N-CA-C	-5.19	104.69	111.02
1	C	338	LEU	N-CA-C	-5.18	105.11	111.75
2	R	94	LYS	N-CA-C	5.18	118.70	112.38
1	F	270	LYS	N-CA-C	-5.18	105.63	111.28
1	B	567	THR	N-CA-C	-5.17	105.80	112.68
2	T	95	ASP	N-CA-C	5.17	119.69	113.17
1	B	81	GLN	N-CA-C	-5.17	106.11	112.72
1	C	270	LYS	N-CA-C	-5.17	105.65	111.28
1	D	197	LYS	N-CA-C	-5.17	105.83	111.82
1	A	270	LYS	N-CA-C	-5.16	105.65	111.28
1	B	188	LEU	O-C-N	-5.16	115.72	122.59
2	S	95	ASP	N-CA-C	5.16	119.67	113.17
2	Q	94	LYS	N-CA-C	5.16	118.67	112.38
1	B	197	LYS	N-CA-C	-5.15	105.84	111.82
1	D	366	PHE	N-CA-C	-5.14	105.80	111.71
2	R	95	ASP	N-CA-C	5.12	119.62	113.17
1	C	188	LEU	O-C-N	-5.11	115.79	122.59
2	P	94	LYS	N-CA-C	5.11	118.62	112.38
1	A	188	LEU	O-C-N	-5.11	115.79	122.59
1	D	338	LEU	N-CA-C	-5.11	105.22	111.75
1	F	221	ASN	N-CA-C	-5.10	106.32	112.54
1	E	188	LEU	O-C-N	-5.10	115.81	122.59
1	F	284	LYS	N-CA-C	-5.09	105.64	111.14
1	D	188	LEU	O-C-N	-5.08	115.83	122.59
1	E	413	LEU	N-CA-C	-5.08	107.15	113.19
1	A	338	LEU	N-CA-C	-5.07	105.26	111.75
2	O	94	LYS	N-CA-C	5.07	118.57	112.38
1	A	221	ASN	N-CA-C	-5.07	106.35	112.54
2	S	94	LYS	N-CA-C	5.07	118.56	112.38
1	B	338	LEU	N-CA-C	-5.06	105.28	111.75
1	F	413	LEU	N-CA-C	-5.04	107.19	113.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	379	ALA	N-CA-C	-5.02	105.72	111.14
1	E	221	ASN	N-CA-C	-5.00	106.43	112.54
1	B	221	ASN	N-CA-C	-5.00	106.44	112.54
1	B	416	ASN	N-CA-C	-5.00	106.43	112.88

There are no chirality outliers.

All (22) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	170	TYR	Sidechain
1	B	170	TYR	Sidechain
1	C	170	TYR	Sidechain
1	D	170	TYR	Sidechain
1	E	170	TYR	Sidechain
1	F	170	TYR	Sidechain
2	O	138	TYR	Sidechain
2	P	138	TYR	Sidechain
2	P	54	GLU	Peptide,Mainchain
2	Q	138	TYR	Sidechain
2	Q	54	GLU	Peptide,Mainchain
2	R	138	TYR	Sidechain
2	R	54	GLU	Peptide,Mainchain
2	S	138	TYR	Sidechain
2	S	54	GLU	Peptide,Mainchain
2	T	138	TYR	Sidechain
2	T	54	GLU	Peptide,Mainchain

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	5992	0	6010	784	1
1	B	5992	0	6010	776	1
1	C	5992	0	6010	780	1
1	D	5992	0	6010	774	0
1	E	5992	0	6010	772	0
1	F	5992	0	6010	767	1

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	O	1146	0	1071	190	0
2	P	1146	0	1071	194	0
2	Q	1146	0	1071	194	0
2	R	1146	0	1071	196	0
2	S	1146	0	1071	198	0
2	T	1146	0	1071	196	0
3	A	1	0	0	0	0
3	B	1	0	0	0	0
3	C	1	0	0	0	0
3	D	1	0	0	0	0
3	E	1	0	0	0	0
3	F	1	0	0	0	0
4	O	4	0	0	0	0
4	P	4	0	0	0	0
4	Q	4	0	0	0	0
4	R	4	0	0	0	0
4	S	4	0	0	0	0
4	T	4	0	0	0	0
All	All	42858	0	42486	5694	2

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 67.

All (5694) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:62:THR:CB	2:S:62:THR:CG2	1.74	1.60
1:B:179:LEU:O	1:B:183:SER:HB2	1.21	1.35
1:A:179:LEU:O	1:A:183:SER:HB2	1.21	1.35
1:E:179:LEU:O	1:E:183:SER:HB2	1.21	1.32
1:D:179:LEU:O	1:D:183:SER:HB2	1.20	1.32
1:F:179:LEU:O	1:F:183:SER:HB2	1.20	1.29
1:C:179:LEU:O	1:C:183:SER:HB2	1.21	1.28
1:C:127:SER:O	1:C:133:GLU:OE2	1.63	1.17
1:E:127:SER:O	1:E:133:GLU:OE2	1.63	1.17
1:F:127:SER:O	1:F:133:GLU:OE2	1.63	1.17
1:B:127:SER:O	1:B:133:GLU:OE2	1.63	1.16
1:A:127:SER:O	1:A:133:GLU:OE2	1.63	1.16
1:D:127:SER:O	1:D:133:GLU:OE2	1.63	1.16
1:F:296:LEU:H	1:F:296:LEU:HD23	1.11	1.15
1:C:296:LEU:HD23	1:C:296:LEU:H	1.11	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:89:ILE:HG22	1:A:93:VAL:HG11	1.31	1.13
1:D:89:ILE:HG22	1:D:93:VAL:HG11	1.30	1.13
1:E:296:LEU:HD23	1:E:296:LEU:H	1.11	1.13
1:B:179:LEU:O	1:B:183:SER:CB	1.98	1.11
1:C:179:LEU:O	1:C:183:SER:CB	1.99	1.11
1:D:179:LEU:O	1:D:183:SER:CB	1.98	1.11
1:B:89:ILE:HG22	1:B:93:VAL:HG11	1.31	1.11
1:D:296:LEU:HD23	1:D:296:LEU:H	1.12	1.10
1:E:179:LEU:O	1:E:183:SER:CB	1.98	1.10
1:F:179:LEU:O	1:F:183:SER:CB	1.98	1.10
1:A:179:LEU:O	1:A:183:SER:CB	1.99	1.10
1:B:296:LEU:HD23	1:B:296:LEU:H	1.11	1.09
1:B:408:LEU:HD12	1:B:408:LEU:H	1.17	1.09
1:E:89:ILE:HG22	1:E:93:VAL:HG11	1.32	1.09
1:A:408:LEU:H	1:A:408:LEU:HD12	1.18	1.08
1:C:89:ILE:HG22	1:C:93:VAL:HG11	1.30	1.08
1:A:296:LEU:HD23	1:A:296:LEU:H	1.11	1.07
1:E:408:LEU:HD12	1:E:408:LEU:H	1.19	1.07
1:F:89:ILE:HG22	1:F:93:VAL:HG11	1.31	1.07
1:E:296:LEU:HD23	1:E:296:LEU:N	1.71	1.06
2:R:13:LYS:NZ	2:R:65:PHE:HB3	1.71	1.06
1:C:597:ASN:HD21	1:C:601:GLU:HB2	1.21	1.05
1:F:408:LEU:H	1:F:408:LEU:HD12	1.18	1.05
1:A:597:ASN:HD21	1:A:601:GLU:HB2	1.21	1.05
1:B:296:LEU:HD23	1:B:296:LEU:N	1.72	1.05
1:F:296:LEU:HD23	1:F:296:LEU:N	1.72	1.05
2:O:13:LYS:NZ	2:O:65:PHE:HB3	1.72	1.05
2:P:55:VAL:HG21	2:P:67:GLU:OE1	1.56	1.05
1:A:296:LEU:HD23	1:A:296:LEU:N	1.72	1.05
1:B:501:LEU:HD22	2:P:112:LEU:HD21	1.39	1.04
1:C:296:LEU:HD23	1:C:296:LEU:N	1.71	1.04
1:D:408:LEU:H	1:D:408:LEU:HD12	1.19	1.04
1:E:597:ASN:HD21	1:E:601:GLU:HB2	1.22	1.04
1:E:479:LYS:HG2	1:E:488:LEU:HD21	1.38	1.04
1:A:501:LEU:HD22	2:O:112:LEU:HD21	1.40	1.03
1:F:501:LEU:HD22	2:T:112:LEU:HD21	1.40	1.03
2:P:13:LYS:NZ	2:P:65:PHE:HB3	1.72	1.03
2:Q:13:LYS:NZ	2:Q:65:PHE:HB3	1.72	1.03
2:S:55:VAL:HG21	2:S:67:GLU:OE1	1.58	1.03
2:S:13:LYS:NZ	2:S:65:PHE:HB3	1.72	1.03
1:D:296:LEU:HD23	1:D:296:LEU:N	1.72	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:13:LYS:NZ	2:T:65:PHE:HB3	1.72	1.03
1:E:501:LEU:HD22	2:S:112:LEU:HD21	1.41	1.03
2:Q:55:VAL:HG21	2:Q:67:GLU:OE1	1.58	1.02
1:C:479:LYS:HG2	1:C:488:LEU:HD21	1.37	1.02
1:F:479:LYS:HG2	1:F:488:LEU:HD21	1.38	1.02
1:A:182:ILE:C	1:A:187:SER:HB2	1.85	1.02
1:C:182:ILE:C	1:C:187:SER:HB2	1.85	1.02
1:C:408:LEU:H	1:C:408:LEU:HD12	1.18	1.02
1:D:597:ASN:HD21	1:D:601:GLU:HB2	1.21	1.02
1:D:182:ILE:C	1:D:187:SER:HB2	1.85	1.02
1:B:182:ILE:C	1:B:187:SER:HB2	1.84	1.02
1:F:597:ASN:HD21	1:F:601:GLU:HB2	1.21	1.02
1:A:479:LYS:HG2	1:A:488:LEU:HD21	1.38	1.01
1:B:597:ASN:HD21	1:B:601:GLU:HB2	1.22	1.01
1:D:501:LEU:HD22	2:R:112:LEU:HD21	1.40	1.01
1:B:479:LYS:HG2	1:B:488:LEU:HD21	1.38	1.01
1:F:182:ILE:C	1:F:187:SER:HB2	1.85	1.01
2:R:55:VAL:HG21	2:R:67:GLU:OE1	1.59	1.01
1:C:501:LEU:HD22	2:Q:112:LEU:HD21	1.41	1.00
1:D:479:LYS:HG2	1:D:488:LEU:HD21	1.39	1.00
2:T:55:VAL:HG21	2:T:67:GLU:OE1	1.59	1.00
2:S:30:LYS:HD3	2:S:30:LYS:H	1.27	0.99
2:O:55:VAL:HG21	2:O:67:GLU:OE1	1.59	0.99
1:E:182:ILE:C	1:E:187:SER:HB2	1.85	0.99
1:A:112:VAL:HG12	1:A:113:GLU:H	1.27	0.99
1:C:112:VAL:HG12	1:C:113:GLU:H	1.27	0.99
1:D:90:PRO:O	1:D:93:VAL:HG12	1.62	0.99
1:B:90:PRO:O	1:B:93:VAL:HG12	1.63	0.99
2:Q:30:LYS:HD3	2:Q:30:LYS:H	1.27	0.98
1:B:112:VAL:HG12	1:B:113:GLU:H	1.28	0.98
1:B:657:ILE:HG13	1:B:756:ILE:HD13	1.46	0.98
1:E:90:PRO:O	1:E:93:VAL:HG12	1.63	0.98
1:E:112:VAL:HG12	1:E:113:GLU:H	1.26	0.98
1:F:112:VAL:HG12	1:F:113:GLU:H	1.27	0.98
1:D:122:GLU:HG3	1:D:147:ARG:HB2	1.45	0.97
1:C:90:PRO:O	1:C:93:VAL:HG12	1.64	0.97
1:E:629:ASN:ND2	1:E:631:SER:H	1.63	0.97
1:B:122:GLU:HG3	1:B:147:ARG:HB2	1.45	0.97
1:E:657:ILE:HG13	1:E:756:ILE:HD13	1.46	0.97
1:A:90:PRO:O	1:A:93:VAL:HG12	1.63	0.97
1:E:154:ILE:HG13	1:E:171:TYR:CE1	2.00	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:122:GLU:HG3	1:F:147:ARG:HB2	1.45	0.97
1:F:657:ILE:HG13	1:F:756:ILE:HD13	1.47	0.97
2:R:30:LYS:H	2:R:30:LYS:HD3	1.27	0.96
1:F:90:PRO:O	1:F:93:VAL:HG12	1.63	0.96
2:O:30:LYS:H	2:O:30:LYS:HD3	1.26	0.96
2:T:30:LYS:H	2:T:30:LYS:HD3	1.26	0.96
1:A:122:GLU:HG3	1:A:147:ARG:HB2	1.46	0.96
1:D:112:VAL:HG12	1:D:113:GLU:H	1.27	0.96
1:F:629:ASN:ND2	1:F:631:SER:H	1.63	0.96
1:A:657:ILE:HG13	1:A:756:ILE:HD13	1.47	0.96
1:C:629:ASN:ND2	1:C:631:SER:H	1.63	0.96
2:P:30:LYS:HD3	2:P:30:LYS:H	1.26	0.96
1:C:657:ILE:HG13	1:C:756:ILE:HD13	1.47	0.96
1:D:629:ASN:ND2	1:D:631:SER:H	1.62	0.96
1:B:154:ILE:HG13	1:B:171:TYR:CE1	2.01	0.96
1:F:161:ILE:CG2	1:F:168:GLU:HB2	1.96	0.96
1:D:657:ILE:HG13	1:D:756:ILE:HD13	1.47	0.95
1:B:161:ILE:CG2	1:B:168:GLU:HB2	1.95	0.95
1:F:154:ILE:HG13	1:F:171:TYR:CE1	2.01	0.95
1:D:154:ILE:HG13	1:D:171:TYR:CE1	2.01	0.95
1:B:629:ASN:ND2	1:B:631:SER:H	1.64	0.95
1:E:161:ILE:CG2	1:E:168:GLU:HB2	1.96	0.95
1:B:472:ARG:HB3	1:B:472:ARG:HH11	1.31	0.95
1:C:472:ARG:HB3	1:C:472:ARG:HH11	1.32	0.95
1:F:472:ARG:HB3	1:F:472:ARG:HH11	1.31	0.95
2:Q:28:THR:HB	2:Q:30:LYS:HZ3	1.31	0.95
1:E:472:ARG:HB3	1:E:472:ARG:HH11	1.31	0.94
1:A:154:ILE:HG13	1:A:171:TYR:CE1	2.01	0.94
1:C:122:GLU:HG3	1:C:147:ARG:HB2	1.46	0.94
1:C:180:ASP:N	1:C:180:ASP:OD1	2.00	0.94
1:E:122:GLU:HG3	1:E:147:ARG:HB2	1.45	0.94
1:C:161:ILE:CG2	1:C:168:GLU:HB2	1.97	0.94
1:A:629:ASN:ND2	1:A:631:SER:H	1.64	0.94
1:C:154:ILE:HG13	1:C:171:TYR:CE1	2.01	0.94
1:A:161:ILE:CG2	1:A:168:GLU:HB2	1.96	0.94
1:A:472:ARG:HB3	1:A:472:ARG:HH11	1.33	0.94
1:A:180:ASP:OD1	1:A:180:ASP:N	2.00	0.94
2:R:59:GLY:O	2:R:62:THR:CG2	2.16	0.94
1:D:152:LEU:HD21	1:D:171:TYR:HE1	1.34	0.93
1:D:472:ARG:HB3	1:D:472:ARG:HH11	1.32	0.93
1:F:180:ASP:OD1	1:F:180:ASP:N	2.01	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:161:ILE:CG2	1:D:168:GLU:HB2	1.97	0.92
1:B:180:ASP:N	1:B:180:ASP:OD1	2.00	0.92
1:C:152:LEU:HD21	1:C:171:TYR:HE1	1.34	0.92
1:F:722:ILE:HG23	1:F:760:VAL:HG13	1.51	0.92
1:B:629:ASN:HD22	1:B:631:SER:H	1.18	0.92
1:F:629:ASN:HD22	1:F:631:SER:H	1.17	0.92
1:D:180:ASP:OD1	1:D:180:ASP:N	2.00	0.91
1:C:629:ASN:HD22	1:C:631:SER:H	1.17	0.91
1:D:629:ASN:HD22	1:D:631:SER:H	1.15	0.91
1:B:353:LYS:H	1:B:368:GLN:HE22	1.17	0.91
1:A:615:ILE:HD12	1:A:645:TRP:HH2	1.36	0.91
1:F:152:LEU:HD21	1:F:171:TYR:HE1	1.33	0.91
1:E:188:LEU:N	1:E:188:LEU:HD23	1.86	0.91
1:A:152:LEU:HD21	1:A:171:TYR:HE1	1.34	0.91
1:A:722:ILE:HG23	1:A:760:VAL:HG13	1.51	0.91
1:C:722:ILE:HG23	1:C:760:VAL:HG13	1.50	0.91
1:D:615:ILE:HD12	1:D:645:TRP:HH2	1.36	0.90
1:E:353:LYS:H	1:E:368:GLN:HE22	1.17	0.90
2:O:59:GLY:O	2:O:62:THR:CG2	2.19	0.90
1:B:722:ILE:HG23	1:B:760:VAL:HG13	1.51	0.90
1:B:188:LEU:N	1:B:188:LEU:HD23	1.87	0.90
1:C:615:ILE:HD12	1:C:645:TRP:HH2	1.37	0.90
1:D:186:LYS:HE3	1:D:234:LEU:HD12	1.54	0.90
1:B:152:LEU:HD21	1:B:171:TYR:HE1	1.35	0.90
2:S:28:THR:HB	2:S:30:LYS:HZ3	1.37	0.90
1:F:327:LEU:HG	1:F:595:ILE:HG23	1.54	0.90
2:Q:36:MSE:HE3	2:Q:43:PRO:HG3	1.54	0.90
1:C:405:LEU:HD13	1:C:453:VAL:HG21	1.54	0.90
1:F:188:LEU:HD23	1:F:188:LEU:N	1.87	0.90
1:A:327:LEU:HG	1:A:595:ILE:HG23	1.54	0.89
1:E:722:ILE:HG23	1:E:760:VAL:HG13	1.52	0.89
1:A:186:LYS:HE3	1:A:234:LEU:HD12	1.54	0.89
2:R:36:MSE:HE3	2:R:43:PRO:HG3	1.54	0.89
1:A:188:LEU:N	1:A:188:LEU:HD23	1.87	0.89
1:D:405:LEU:HD13	1:D:453:VAL:HG21	1.54	0.89
1:E:152:LEU:HD21	1:E:171:TYR:HE1	1.35	0.89
1:E:327:LEU:HG	1:E:595:ILE:HG23	1.55	0.89
1:E:405:LEU:HD13	1:E:453:VAL:HG21	1.54	0.89
1:F:405:LEU:HD13	1:F:453:VAL:HG21	1.55	0.89
1:C:188:LEU:N	1:C:188:LEU:HD23	1.86	0.89
1:E:615:ILE:HD12	1:E:645:TRP:HH2	1.37	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:629:ASN:HD22	1:E:631:SER:H	1.17	0.89
1:C:186:LYS:HE3	1:C:234:LEU:HD12	1.55	0.89
1:D:722:ILE:HG23	1:D:760:VAL:HG13	1.52	0.89
1:F:615:ILE:HD12	1:F:645:TRP:HH2	1.36	0.89
2:T:36:MSE:HE3	2:T:43:PRO:HG3	1.54	0.89
1:D:188:LEU:N	1:D:188:LEU:HD23	1.87	0.89
1:E:616:GLU:HA	1:E:620:THR:HB	1.55	0.89
2:O:36:MSE:HE3	2:O:43:PRO:HG3	1.54	0.89
1:D:130:SER:HB2	1:D:170:TYR:CE2	2.08	0.88
1:D:327:LEU:HG	1:D:595:ILE:HG23	1.53	0.88
1:B:186:LYS:HE3	1:B:234:LEU:HD12	1.54	0.88
1:A:353:LYS:H	1:A:368:GLN:HE22	1.19	0.88
1:A:616:GLU:HA	1:A:620:THR:HB	1.56	0.88
1:D:616:GLU:HA	1:D:620:THR:HB	1.55	0.88
1:E:719:LYS:HE3	1:E:797:ILE:HD11	1.55	0.88
2:R:56:ASP:OD2	2:R:60:ASN:HA	1.74	0.88
1:B:327:LEU:HG	1:B:595:ILE:HG23	1.55	0.88
1:B:550:SER:HB3	1:B:553:GLN:HG3	1.55	0.88
2:Q:56:ASP:OD2	2:Q:60:ASN:HA	1.74	0.88
1:A:550:SER:HB3	1:A:553:GLN:HG3	1.55	0.88
1:C:327:LEU:HG	1:C:595:ILE:HG23	1.54	0.88
1:B:616:GLU:HA	1:B:620:THR:HB	1.55	0.88
2:S:36:MSE:HE3	2:S:43:PRO:HG3	1.54	0.88
1:A:130:SER:HB2	1:A:170:TYR:CE2	2.09	0.88
1:D:275:GLY:HA2	1:D:278:LYS:HE3	1.56	0.88
1:C:275:GLY:HA2	1:C:278:LYS:HE3	1.55	0.87
1:E:275:GLY:HA2	1:E:278:LYS:HE3	1.55	0.87
1:F:616:GLU:HA	1:F:620:THR:HB	1.56	0.87
1:A:405:LEU:HD13	1:A:453:VAL:HG21	1.54	0.87
1:C:130:SER:HB2	1:C:170:TYR:CE2	2.08	0.87
1:C:550:SER:HB3	1:C:553:GLN:HG3	1.57	0.87
1:E:161:ILE:HA	1:E:167:LYS:HD2	1.57	0.87
1:F:353:LYS:H	1:F:368:GLN:HE22	1.18	0.87
1:F:550:SER:HB3	1:F:553:GLN:HG3	1.54	0.87
1:E:186:LYS:HE3	1:E:234:LEU:HD12	1.54	0.87
1:B:405:LEU:HD13	1:B:453:VAL:HG21	1.55	0.87
1:A:630:ARG:CZ	2:O:83:GLU:HG2	2.04	0.87
1:E:130:SER:HB2	1:E:170:TYR:CE2	2.09	0.87
1:B:161:ILE:HA	1:B:167:LYS:HD2	1.56	0.87
2:P:36:MSE:HE3	2:P:43:PRO:HG3	1.54	0.87
1:B:275:GLY:HA2	1:B:278:LYS:HE3	1.57	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:616:GLU:HA	1:C:620:THR:HB	1.56	0.87
1:F:275:GLY:HA2	1:F:278:LYS:HE3	1.56	0.87
1:F:597:ASN:HB2	1:F:598:PRO:HD2	1.57	0.87
1:A:719:LYS:HE3	1:A:797:ILE:HD11	1.56	0.86
1:D:597:ASN:HB2	1:D:598:PRO:HD2	1.57	0.86
2:P:65:PHE:HB2	2:P:66:PRO:HD3	1.57	0.86
1:A:611:THR:O	1:A:615:ILE:HG13	1.74	0.86
1:E:611:THR:O	1:E:615:ILE:HG13	1.75	0.86
1:F:719:LYS:HE3	1:F:797:ILE:HD11	1.57	0.86
1:B:611:THR:O	1:B:615:ILE:HG13	1.75	0.86
1:B:615:ILE:HD12	1:B:645:TRP:HH2	1.39	0.86
1:D:719:LYS:HE3	1:D:797:ILE:HD11	1.56	0.86
1:B:130:SER:HB2	1:B:170:TYR:CE2	2.10	0.86
1:F:611:THR:O	1:F:615:ILE:HG13	1.75	0.86
1:C:719:LYS:HE3	1:C:797:ILE:HD11	1.57	0.86
1:F:161:ILE:HA	1:F:167:LYS:HD2	1.57	0.86
1:F:186:LYS:HE3	1:F:234:LEU:HD12	1.55	0.86
2:O:65:PHE:HB2	2:O:66:PRO:HD3	1.58	0.86
2:Q:65:PHE:HB2	2:Q:66:PRO:HD3	1.58	0.86
2:S:65:PHE:HB2	2:S:66:PRO:HD3	1.57	0.86
1:B:107:THR:HG21	1:B:115:LYS:HD2	1.57	0.86
1:B:719:LYS:HE3	1:B:797:ILE:HD11	1.58	0.86
1:A:275:GLY:HA2	1:A:278:LYS:HE3	1.58	0.86
1:C:611:THR:O	1:C:615:ILE:HG13	1.75	0.86
1:E:180:ASP:N	1:E:180:ASP:OD1	2.01	0.86
1:B:635:ILE:H	1:B:635:ILE:HD12	1.41	0.86
2:P:117:THR:HG23	2:P:120:GLU:HB2	1.58	0.86
2:R:65:PHE:HB2	2:R:66:PRO:HD3	1.58	0.86
1:A:629:ASN:HD22	1:A:631:SER:H	1.19	0.85
1:E:630:ARG:CZ	2:S:83:GLU:HG2	2.05	0.85
1:F:130:SER:HB2	1:F:170:TYR:CE2	2.10	0.85
2:T:65:PHE:HB2	2:T:66:PRO:HD3	1.58	0.85
1:D:89:ILE:HG22	1:D:93:VAL:CG1	2.06	0.85
1:D:353:LYS:H	1:D:368:GLN:HE22	1.17	0.85
1:D:550:SER:HB3	1:D:553:GLN:HG3	1.58	0.85
1:A:597:ASN:HB2	1:A:598:PRO:HD2	1.57	0.85
1:C:353:LYS:H	1:C:368:GLN:HE22	1.19	0.85
1:E:550:SER:HB3	1:E:553:GLN:HG3	1.57	0.85
1:A:107:THR:HG21	1:A:115:LYS:HD2	1.58	0.85
1:B:89:ILE:HG22	1:B:93:VAL:CG1	2.07	0.85
1:C:89:ILE:HG22	1:C:93:VAL:CG1	2.07	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:635:ILE:H	1:C:635:ILE:HD12	1.42	0.85
1:D:161:ILE:HA	1:D:167:LYS:HD2	1.58	0.85
1:A:89:ILE:HG22	1:A:93:VAL:CG1	2.07	0.85
1:A:161:ILE:HA	1:A:167:LYS:HD2	1.57	0.85
1:D:611:THR:O	1:D:615:ILE:HG13	1.76	0.85
2:S:56:ASP:OD2	2:S:60:ASN:HA	1.76	0.84
1:F:107:THR:HG21	1:F:115:LYS:HD2	1.58	0.84
1:A:161:ILE:HG21	1:A:168:GLU:HB2	1.60	0.84
1:E:89:ILE:HG22	1:E:93:VAL:CG1	2.07	0.84
1:C:288:VAL:HG23	1:C:289:GLU:H	1.42	0.84
1:C:472:ARG:HB3	1:C:472:ARG:NH1	1.92	0.84
2:R:9:ILE:HD12	2:R:69:LEU:HD11	1.59	0.84
1:F:288:VAL:HG23	1:F:289:GLU:H	1.42	0.84
2:R:28:THR:HB	2:R:30:LYS:HZ3	1.43	0.84
1:A:296:LEU:H	1:A:296:LEU:CD2	1.91	0.84
1:D:142:VAL:HG22	1:D:154:ILE:HG23	1.60	0.84
1:E:288:VAL:HG23	1:E:289:GLU:H	1.42	0.84
1:E:597:ASN:HB2	1:E:598:PRO:HD2	1.57	0.84
1:F:142:VAL:HG22	1:F:154:ILE:HG23	1.60	0.84
1:D:107:THR:HG21	1:D:115:LYS:HD2	1.58	0.84
1:D:192:PHE:HA	1:D:195:LEU:HB3	1.60	0.84
1:E:472:ARG:HB3	1:E:472:ARG:NH1	1.92	0.84
2:Q:9:ILE:HD12	2:Q:69:LEU:HD11	1.60	0.84
1:B:161:ILE:HG21	1:B:168:GLU:HB2	1.59	0.83
1:C:597:ASN:HB2	1:C:598:PRO:HD2	1.58	0.83
1:D:746:LYS:O	1:D:750:GLN:HG2	1.78	0.83
2:T:117:THR:HG23	2:T:120:GLU:HB2	1.59	0.83
1:F:89:ILE:HG22	1:F:93:VAL:CG1	2.07	0.83
1:A:142:VAL:HG22	1:A:154:ILE:HG23	1.60	0.83
1:B:597:ASN:HB2	1:B:598:PRO:HD2	1.57	0.83
1:D:630:ARG:CZ	2:R:83:GLU:HG2	2.08	0.83
1:A:635:ILE:H	1:A:635:ILE:HD12	1.41	0.83
1:D:288:VAL:HG23	1:D:289:GLU:H	1.43	0.83
1:F:472:ARG:HB3	1:F:472:ARG:NH1	1.92	0.83
1:C:140:ARG:HA	1:C:140:ARG:HE	1.44	0.83
1:C:161:ILE:HA	1:C:167:LYS:HD2	1.58	0.83
1:E:635:ILE:HD12	1:E:635:ILE:H	1.43	0.83
1:C:142:VAL:HG22	1:C:154:ILE:HG23	1.61	0.83
1:E:746:LYS:O	1:E:750:GLN:HG2	1.78	0.83
1:F:630:ARG:CZ	2:T:83:GLU:HG2	2.08	0.83
2:T:9:ILE:HD12	2:T:69:LEU:HD11	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:472:ARG:HB3	1:B:472:ARG:NH1	1.92	0.83
1:D:472:ARG:HB3	1:D:472:ARG:NH1	1.92	0.83
1:C:630:ARG:CZ	2:Q:83:GLU:HG2	2.08	0.83
2:O:117:THR:HG23	2:O:120:GLU:HB2	1.59	0.83
2:S:117:THR:HG23	2:S:120:GLU:HB2	1.59	0.83
1:B:746:LYS:O	1:B:750:GLN:HG2	1.78	0.83
1:E:142:VAL:HG22	1:E:154:ILE:HG23	1.61	0.83
1:F:140:ARG:HA	1:F:140:ARG:HE	1.44	0.83
1:F:441:VAL:HG22	1:F:461:LYS:HG2	1.61	0.83
1:B:630:ARG:CZ	2:P:83:GLU:HG2	2.07	0.82
1:E:192:PHE:HA	1:E:195:LEU:HB3	1.60	0.82
2:Q:117:THR:HG23	2:Q:120:GLU:HB2	1.59	0.82
1:A:746:LYS:O	1:A:750:GLN:HG2	1.79	0.82
1:A:93:VAL:HG23	1:A:179:LEU:HD11	1.61	0.82
1:B:89:ILE:HD13	1:B:175:LYS:HE2	1.60	0.82
1:C:441:VAL:HG22	1:C:461:LYS:HG2	1.60	0.82
1:F:746:LYS:O	1:F:750:GLN:HG2	1.79	0.82
2:Q:5:THR:HG23	2:Q:8:GLN:HB2	1.61	0.82
1:A:192:PHE:HA	1:A:195:LEU:HB3	1.60	0.82
1:F:192:PHE:HA	1:F:195:LEU:HB3	1.60	0.82
1:F:635:ILE:H	1:F:635:ILE:HD12	1.42	0.82
1:A:288:VAL:HG23	1:A:289:GLU:H	1.43	0.82
1:B:142:VAL:HG22	1:B:154:ILE:HG23	1.61	0.82
1:C:107:THR:HG21	1:C:115:LYS:HD2	1.58	0.82
2:Q:5:THR:O	2:Q:9:ILE:HG12	1.79	0.82
1:B:288:VAL:HG23	1:B:289:GLU:H	1.42	0.82
1:C:192:PHE:HA	1:C:195:LEU:HB3	1.60	0.82
1:D:140:ARG:HA	1:D:140:ARG:HE	1.44	0.82
1:D:161:ILE:HG21	1:D:168:GLU:HB2	1.61	0.82
2:O:9:ILE:HD12	2:O:69:LEU:HD11	1.60	0.82
1:A:472:ARG:HB3	1:A:472:ARG:NH1	1.93	0.82
2:T:5:THR:O	2:T:9:ILE:HG12	1.80	0.82
1:A:236:GLU:HA	1:A:239:HIS:CD2	2.15	0.82
1:D:71:PHE:HB3	1:D:108:ASP:HB2	1.62	0.82
1:C:746:LYS:O	1:C:750:GLN:HG2	1.80	0.82
1:D:441:VAL:HG22	1:D:461:LYS:HG2	1.60	0.82
1:E:189:ASP:O	1:E:191:GLU:N	2.13	0.82
1:E:441:VAL:HG22	1:E:461:LYS:HG2	1.61	0.82
2:P:5:THR:HG23	2:P:8:GLN:HB2	1.61	0.82
2:P:9:ILE:HD12	2:P:69:LEU:HD11	1.60	0.82
1:D:236:GLU:HA	1:D:239:HIS:CD2	2.15	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:107:THR:HG21	1:E:115:LYS:HD2	1.60	0.81
1:C:71:PHE:HB3	1:C:108:ASP:HB2	1.61	0.81
1:C:391:ILE:HG12	1:C:399:GLY:HA2	1.62	0.81
1:D:635:ILE:H	1:D:635:ILE:HD12	1.43	0.81
1:F:161:ILE:HG21	1:F:168:GLU:HB2	1.60	0.81
1:A:140:ARG:HA	1:A:140:ARG:HE	1.44	0.81
1:B:140:ARG:HA	1:B:140:ARG:HE	1.44	0.81
1:B:189:ASP:O	1:B:191:GLU:N	2.14	0.81
1:E:296:LEU:H	1:E:296:LEU:CD2	1.90	0.81
1:F:71:PHE:HB3	1:F:108:ASP:HB2	1.61	0.81
2:S:5:THR:HG23	2:S:8:GLN:HB2	1.61	0.81
1:E:79:ILE:C	1:E:81:GLN:H	1.87	0.81
1:E:140:ARG:HA	1:E:140:ARG:HE	1.44	0.81
2:P:55:VAL:HB	2:P:67:GLU:OE2	1.79	0.81
1:A:71:PHE:HB3	1:A:108:ASP:HB2	1.61	0.81
1:B:79:ILE:C	1:B:81:GLN:H	1.87	0.81
2:R:117:THR:HG23	2:R:120:GLU:HB2	1.60	0.81
1:C:161:ILE:HG21	1:C:168:GLU:HB2	1.61	0.81
1:D:79:ILE:C	1:D:81:GLN:H	1.87	0.81
1:D:93:VAL:HG23	1:D:179:LEU:HD11	1.61	0.81
1:B:93:VAL:HG23	1:B:179:LEU:HD11	1.61	0.81
1:B:192:PHE:HA	1:B:195:LEU:HB3	1.60	0.81
1:B:236:GLU:HA	1:B:239:HIS:CD2	2.16	0.81
1:C:189:ASP:O	1:C:191:GLU:N	2.13	0.81
1:E:161:ILE:HG21	1:E:168:GLU:HB2	1.60	0.81
1:B:71:PHE:HB3	1:B:108:ASP:HB2	1.61	0.81
2:Q:55:VAL:HB	2:Q:67:GLU:OE2	1.81	0.81
2:S:9:ILE:HD12	2:S:69:LEU:HD11	1.61	0.81
1:B:441:VAL:HG22	1:B:461:LYS:HG2	1.60	0.80
1:C:131:ARG:H	1:C:170:TYR:HE2	1.28	0.80
1:C:236:GLU:HA	1:C:239:HIS:CD2	2.15	0.80
1:E:391:ILE:HG12	1:E:399:GLY:HA2	1.63	0.80
1:F:391:ILE:HG12	1:F:399:GLY:HA2	1.63	0.80
1:B:391:ILE:HG12	1:B:399:GLY:HA2	1.63	0.80
2:O:5:THR:HG23	2:O:8:GLN:HB2	1.61	0.80
2:R:5:THR:HG23	2:R:8:GLN:HB2	1.61	0.80
2:T:5:THR:HG23	2:T:8:GLN:HB2	1.61	0.80
1:D:391:ILE:HG12	1:D:399:GLY:HA2	1.62	0.80
2:R:55:VAL:HB	2:R:67:GLU:OE2	1.81	0.80
2:R:59:GLY:O	2:R:62:THR:HG22	1.80	0.80
2:S:5:THR:O	2:S:9:ILE:HG12	1.80	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:441:VAL:HG22	1:A:461:LYS:HG2	1.62	0.80
1:F:93:VAL:HG23	1:F:179:LEU:HD11	1.61	0.80
1:F:89:ILE:HD13	1:F:175:LYS:HE2	1.63	0.80
2:O:55:VAL:HB	2:O:67:GLU:OE2	1.81	0.80
1:A:105:TYR:HB2	1:A:153:ILE:HG12	1.64	0.80
1:A:189:ASP:O	1:A:191:GLU:N	2.14	0.80
2:R:5:THR:O	2:R:9:ILE:HG12	1.80	0.80
1:A:79:ILE:C	1:A:81:GLN:H	1.88	0.80
1:F:105:TYR:HB2	1:F:153:ILE:HG12	1.64	0.80
1:F:615:ILE:HD12	1:F:645:TRP:CH2	2.16	0.80
1:A:629:ASN:HD22	1:A:629:ASN:C	1.90	0.80
1:E:161:ILE:HG23	1:E:168:GLU:HB2	1.63	0.80
1:A:142:VAL:HG13	1:A:154:ILE:CD1	2.12	0.80
1:B:105:TYR:HB2	1:B:153:ILE:HG12	1.63	0.80
1:A:89:ILE:HD13	1:A:175:LYS:HE2	1.62	0.80
1:D:189:ASP:O	1:D:191:GLU:N	2.14	0.80
1:E:93:VAL:HG23	1:E:179:LEU:HD11	1.63	0.80
1:E:769:SER:O	1:E:769:SER:OG	1.99	0.80
1:F:615:ILE:HG23	1:F:619:ILE:HD12	1.64	0.80
2:P:5:THR:O	2:P:9:ILE:HG12	1.80	0.80
1:A:615:ILE:HD12	1:A:645:TRP:CH2	2.15	0.79
1:B:408:LEU:H	1:B:408:LEU:CD1	1.95	0.79
1:F:409:ARG:NE	1:F:413:LEU:HD21	1.97	0.79
1:A:134:LYS:O	1:A:135:VAL:HG12	1.81	0.79
1:A:736:LEU:HD11	1:A:750:GLN:NE2	1.97	0.79
1:B:409:ARG:NE	1:B:413:LEU:HD21	1.97	0.79
1:C:409:ARG:NE	1:C:413:LEU:HD21	1.97	0.79
1:E:736:LEU:HD11	1:E:750:GLN:NE2	1.97	0.79
1:C:408:LEU:H	1:C:408:LEU:CD1	1.95	0.79
1:C:736:LEU:HD11	1:C:750:GLN:NE2	1.97	0.79
1:E:89:ILE:HD13	1:E:175:LYS:HE2	1.62	0.79
1:E:615:ILE:HD12	1:E:645:TRP:CH2	2.17	0.79
1:F:189:ASP:O	1:F:191:GLU:N	2.14	0.79
2:O:56:ASP:OD2	2:O:60:ASN:HA	1.83	0.79
1:A:408:LEU:H	1:A:408:LEU:CD1	1.96	0.79
1:C:134:LYS:O	1:C:135:VAL:HG12	1.82	0.79
1:D:409:ARG:NE	1:D:413:LEU:HD21	1.98	0.79
1:D:615:ILE:HD12	1:D:645:TRP:CH2	2.16	0.79
1:F:134:LYS:O	1:F:135:VAL:HG12	1.83	0.79
2:T:55:VAL:HB	2:T:67:GLU:OE2	1.81	0.79
1:D:408:LEU:H	1:D:408:LEU:CD1	1.96	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:236:GLU:HA	1:E:239:HIS:CD2	2.15	0.79
1:F:236:GLU:HA	1:F:239:HIS:CD2	2.16	0.79
1:B:629:ASN:HD22	1:B:629:ASN:C	1.91	0.79
1:D:446:ILE:HD11	1:D:451:ASN:HB3	1.65	0.79
2:S:55:VAL:HB	2:S:67:GLU:OE2	1.81	0.79
1:B:736:LEU:HD11	1:B:750:GLN:NE2	1.97	0.79
1:C:581:GLN:HE21	1:C:629:ASN:H	1.30	0.79
1:E:134:LYS:O	1:E:135:VAL:HG12	1.82	0.79
1:F:79:ILE:C	1:F:81:GLN:H	1.88	0.79
1:F:736:LEU:HD11	1:F:750:GLN:NE2	1.97	0.79
2:O:5:THR:O	2:O:9:ILE:HG12	1.81	0.79
2:T:6:GLU:HG3	2:T:7:GLU:N	1.98	0.79
1:C:597:ASN:ND2	1:C:601:GLU:HB2	1.98	0.79
1:C:105:TYR:HB2	1:C:153:ILE:HG12	1.65	0.79
1:F:131:ARG:H	1:F:170:TYR:HE2	1.30	0.79
1:C:89:ILE:HD13	1:C:175:LYS:HE2	1.64	0.79
1:E:71:PHE:HB3	1:E:108:ASP:HB2	1.62	0.79
1:E:409:ARG:NE	1:E:413:LEU:HD21	1.98	0.79
2:R:6:GLU:HG3	2:R:7:GLU:N	1.98	0.79
1:C:93:VAL:HG23	1:C:179:LEU:HD11	1.63	0.78
1:C:615:ILE:HD12	1:C:645:TRP:CH2	2.17	0.78
1:D:197:LYS:HZ2	1:D:197:LYS:HB3	1.47	0.78
1:E:70:GLU:HB2	1:E:107:THR:HG22	1.65	0.78
1:E:105:TYR:HB2	1:E:153:ILE:HG12	1.65	0.78
1:F:161:ILE:HG23	1:F:168:GLU:HB2	1.65	0.78
1:C:79:ILE:C	1:C:81:GLN:H	1.88	0.78
1:D:581:GLN:HE21	1:D:629:ASN:H	1.28	0.78
1:D:736:LEU:HD11	1:D:750:GLN:NE2	1.97	0.78
2:Q:6:GLU:HG3	2:Q:7:GLU:N	1.98	0.78
2:O:6:GLU:HG3	2:O:7:GLU:N	1.98	0.78
2:T:56:ASP:OD2	2:T:60:ASN:HA	1.82	0.78
1:D:105:TYR:HB2	1:D:153:ILE:HG12	1.65	0.78
1:D:131:ARG:H	1:D:170:TYR:HE2	1.28	0.78
1:E:446:ILE:HD11	1:E:451:ASN:HB3	1.65	0.78
1:A:391:ILE:HG12	1:A:399:GLY:HA2	1.64	0.78
1:E:131:ARG:H	1:E:170:TYR:HE2	1.30	0.78
1:F:176:GLY:C	1:F:178:SER:H	1.91	0.78
1:F:446:ILE:HD11	1:F:451:ASN:HB3	1.66	0.78
1:F:629:ASN:HD22	1:F:629:ASN:C	1.92	0.78
1:A:179:LEU:C	1:A:183:SER:HB2	2.08	0.78
1:B:134:LYS:O	1:B:135:VAL:HG12	1.82	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:179:LEU:C	1:D:183:SER:HB2	2.07	0.78
1:D:89:ILE:HD13	1:D:175:LYS:HE2	1.64	0.78
2:O:59:GLY:O	2:O:62:THR:HG22	1.83	0.78
1:B:161:ILE:HG23	1:B:168:GLU:HB2	1.64	0.78
1:B:615:ILE:HD12	1:B:645:TRP:CH2	2.18	0.78
1:B:142:VAL:HG13	1:B:154:ILE:CD1	2.14	0.77
1:D:134:LYS:O	1:D:135:VAL:HG12	1.83	0.77
1:D:142:VAL:HG13	1:D:154:ILE:CD1	2.13	0.77
1:E:186:LYS:HE3	1:E:234:LEU:CD1	2.14	0.77
1:E:615:ILE:HG23	1:E:619:ILE:HD12	1.66	0.77
1:A:409:ARG:NE	1:A:413:LEU:HD21	1.99	0.77
1:A:446:ILE:HD11	1:A:451:ASN:HB3	1.65	0.77
1:B:173:ILE:HG13	1:B:242:SER:HB3	1.66	0.77
1:D:173:ILE:HG13	1:D:242:SER:HB3	1.66	0.77
1:D:409:ARG:CZ	1:D:413:LEU:HD21	2.15	0.77
1:F:581:GLN:HE21	1:F:629:ASN:H	1.32	0.77
2:P:6:GLU:HG3	2:P:7:GLU:N	1.98	0.77
1:C:446:ILE:HD11	1:C:451:ASN:HB3	1.65	0.77
2:S:6:GLU:HG3	2:S:7:GLU:N	1.98	0.77
1:C:142:VAL:HG13	1:C:154:ILE:CD1	2.14	0.77
1:E:176:GLY:C	1:E:178:SER:H	1.92	0.77
1:F:409:ARG:CZ	1:F:413:LEU:HD21	2.15	0.77
1:A:131:ARG:H	1:A:170:TYR:HE2	1.31	0.77
1:A:173:ILE:HG13	1:A:242:SER:HB3	1.65	0.77
1:D:629:ASN:HD22	1:D:629:ASN:C	1.92	0.77
1:E:629:ASN:HD22	1:E:629:ASN:C	1.92	0.77
1:F:142:VAL:HG13	1:F:154:ILE:CD1	2.13	0.77
1:F:197:LYS:HB3	1:F:197:LYS:HZ2	1.50	0.77
1:B:236:GLU:HA	1:B:239:HIS:HD2	1.50	0.77
1:B:615:ILE:HG23	1:B:619:ILE:HD12	1.66	0.77
1:C:236:GLU:HA	1:C:239:HIS:HD2	1.50	0.77
1:E:597:ASN:ND2	1:E:601:GLU:HB2	1.99	0.77
1:E:581:GLN:HE21	1:E:629:ASN:H	1.32	0.77
1:F:179:LEU:C	1:F:183:SER:HB2	2.07	0.77
1:C:629:ASN:HD22	1:C:629:ASN:C	1.92	0.77
1:D:70:GLU:HB2	1:D:107:THR:HG22	1.66	0.77
1:F:450:ASN:HD22	1:F:452:GLU:HG3	1.50	0.77
1:C:70:GLU:HB2	1:C:107:THR:HG22	1.65	0.77
1:A:305:SER:OG	1:A:307:LEU:HD13	1.85	0.77
1:A:597:ASN:ND2	1:A:601:GLU:HB2	1.99	0.77
1:B:446:ILE:HD11	1:B:451:ASN:HB3	1.65	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:179:LEU:C	1:C:183:SER:HB2	2.08	0.76
1:A:318:ILE:HD12	1:A:318:ILE:H	1.50	0.76
1:B:70:GLU:HB2	1:B:107:THR:HG22	1.66	0.76
1:B:318:ILE:H	1:B:318:ILE:HD12	1.50	0.76
1:F:186:LYS:HE3	1:F:234:LEU:CD1	2.15	0.76
1:F:217:LYS:HZ2	1:F:217:LYS:HB3	1.49	0.76
1:A:236:GLU:HA	1:A:239:HIS:HD2	1.49	0.76
1:D:161:ILE:HG23	1:D:168:GLU:HB2	1.65	0.76
1:E:142:VAL:HG13	1:E:154:ILE:CD1	2.14	0.76
1:D:597:ASN:ND2	1:D:601:GLU:HB2	1.98	0.76
1:D:615:ILE:HG23	1:D:619:ILE:HD12	1.66	0.76
1:E:674:SER:O	1:E:676:VAL:N	2.19	0.76
2:T:28:THR:HB	2:T:30:LYS:HZ3	1.48	0.76
2:T:100:ILE:HB	2:T:136:VAL:CG2	2.15	0.76
1:A:176:GLY:C	1:A:178:SER:H	1.91	0.76
1:C:173:ILE:HG13	1:C:242:SER:HB3	1.67	0.76
1:C:550:SER:CB	1:C:553:GLN:HG3	2.16	0.76
1:E:409:ARG:CZ	1:E:413:LEU:HD21	2.15	0.76
1:B:305:SER:OG	1:B:307:LEU:HD13	1.85	0.76
1:C:161:ILE:HG23	1:C:168:GLU:HB2	1.65	0.76
1:D:318:ILE:HD12	1:D:318:ILE:H	1.51	0.76
1:B:409:ARG:CZ	1:B:413:LEU:HD21	2.15	0.76
1:F:318:ILE:H	1:F:318:ILE:HD12	1.51	0.76
1:A:70:GLU:HB2	1:A:107:THR:HG22	1.66	0.76
1:C:615:ILE:HG23	1:C:619:ILE:HD12	1.66	0.76
1:D:236:GLU:HA	1:D:239:HIS:HD2	1.50	0.76
1:E:318:ILE:H	1:E:318:ILE:HD12	1.51	0.76
1:F:70:GLU:HB2	1:F:107:THR:HG22	1.65	0.76
1:A:540:ARG:NH2	2:O:87:GLU:OE1	2.19	0.76
1:B:550:SER:CB	1:B:553:GLN:HG3	2.15	0.76
1:E:172:GLU:HB3	1:E:246:SER:HA	1.68	0.76
1:F:597:ASN:ND2	1:F:601:GLU:HB2	1.98	0.76
1:A:186:LYS:HE3	1:A:234:LEU:CD1	2.15	0.76
1:B:186:LYS:HE3	1:B:234:LEU:CD1	2.14	0.76
1:B:769:SER:O	1:B:769:SER:OG	2.00	0.76
1:D:186:LYS:HE3	1:D:234:LEU:CD1	2.14	0.76
1:E:153:ILE:O	1:E:154:ILE:HD13	1.85	0.76
1:E:305:SER:OG	1:E:307:LEU:HD13	1.85	0.76
1:F:173:ILE:HG13	1:F:242:SER:HB3	1.66	0.76
1:A:161:ILE:HG23	1:A:168:GLU:HB2	1.65	0.75
1:B:176:GLY:C	1:B:178:SER:H	1.91	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:324:THR:HB	1:B:499:PRO:HA	1.68	0.75
1:B:674:SER:O	1:B:676:VAL:N	2.19	0.75
1:C:409:ARG:CZ	1:C:413:LEU:HD21	2.15	0.75
1:D:305:SER:OG	1:D:307:LEU:HD13	1.86	0.75
1:A:674:SER:O	1:A:676:VAL:N	2.19	0.75
1:B:131:ARG:H	1:B:170:TYR:HE2	1.31	0.75
1:B:172:GLU:HB3	1:B:246:SER:HA	1.68	0.75
1:B:597:ASN:ND2	1:B:601:GLU:HB2	2.00	0.75
1:C:172:GLU:HB3	1:C:246:SER:HA	1.68	0.75
1:C:176:GLY:C	1:C:178:SER:H	1.92	0.75
1:B:540:ARG:NH2	2:P:87:GLU:OE1	2.19	0.75
1:B:153:ILE:O	1:B:154:ILE:HD13	1.87	0.75
1:C:186:LYS:HE3	1:C:234:LEU:CD1	2.15	0.75
1:E:173:ILE:HG13	1:E:242:SER:HB3	1.66	0.75
1:E:179:LEU:C	1:E:183:SER:HB2	2.07	0.75
1:F:153:ILE:O	1:F:154:ILE:HD13	1.86	0.75
1:C:549:LEU:HB2	1:C:553:GLN:HE21	1.52	0.75
1:E:540:ARG:NH2	2:S:87:GLU:OE1	2.20	0.75
1:F:172:GLU:HB3	1:F:246:SER:HA	1.68	0.75
1:F:674:SER:O	1:F:676:VAL:N	2.19	0.75
2:S:100:ILE:HB	2:S:136:VAL:CG2	2.16	0.75
1:D:353:LYS:H	1:D:368:GLN:NE2	1.85	0.75
1:D:549:LEU:HB2	1:D:553:GLN:HE21	1.52	0.75
1:D:674:SER:O	1:D:676:VAL:N	2.19	0.75
1:A:581:GLN:HE21	1:A:629:ASN:H	1.32	0.75
1:B:581:GLN:HE21	1:B:629:ASN:H	1.33	0.75
1:F:540:ARG:NH2	2:T:87:GLU:OE1	2.20	0.75
2:O:22:ASP:O	2:O:24:ASP:N	2.20	0.75
2:O:109:MSE:HG3	2:O:116:LEU:HD11	1.69	0.75
1:A:550:SER:CB	1:A:553:GLN:HG3	2.16	0.75
1:A:615:ILE:HG23	1:A:619:ILE:HD12	1.66	0.75
1:C:305:SER:OG	1:C:307:LEU:HD13	1.86	0.75
1:E:296:LEU:N	1:E:296:LEU:CD2	2.48	0.75
2:O:100:ILE:HB	2:O:136:VAL:CG2	2.17	0.75
1:B:549:LEU:HB2	1:B:553:GLN:HE21	1.52	0.75
1:D:71:PHE:CB	1:D:108:ASP:HB2	2.17	0.75
1:E:549:LEU:HB2	1:E:553:GLN:HE21	1.52	0.75
1:F:236:GLU:HA	1:F:239:HIS:HD2	1.50	0.75
1:A:409:ARG:CZ	1:A:413:LEU:HD21	2.16	0.74
1:A:668:SER:HA	2:O:14:GLU:HG3	1.69	0.74
1:D:140:ARG:HA	1:D:140:ARG:NE	2.02	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:182:ILE:O	1:F:187:SER:HB2	1.87	0.74
2:S:109:MSE:HG3	2:S:116:LEU:HD11	1.68	0.74
1:C:71:PHE:CB	1:C:108:ASP:HB2	2.17	0.74
1:F:270:LYS:HD3	1:F:273:LYS:HD2	1.69	0.74
1:B:296:LEU:N	1:B:296:LEU:CD2	2.48	0.74
1:C:450:ASN:HD22	1:C:452:GLU:HG3	1.52	0.74
1:D:450:ASN:HD22	1:D:452:GLU:HG3	1.51	0.74
1:F:353:LYS:H	1:F:368:GLN:NE2	1.85	0.74
2:R:22:ASP:O	2:R:24:ASP:N	2.21	0.74
2:R:100:ILE:HB	2:R:136:VAL:CG2	2.16	0.74
2:T:22:ASP:O	2:T:24:ASP:N	2.20	0.74
2:T:109:MSE:HG3	2:T:116:LEU:HD11	1.70	0.74
1:A:140:ARG:HA	1:A:140:ARG:NE	2.03	0.74
1:A:172:GLU:HB3	1:A:246:SER:HA	1.68	0.74
1:A:182:ILE:O	1:A:187:SER:HB2	1.87	0.74
1:C:182:ILE:O	1:C:187:SER:HB2	1.87	0.74
1:D:172:GLU:HB3	1:D:246:SER:HA	1.68	0.74
1:E:236:GLU:HA	1:E:239:HIS:HD2	1.50	0.74
2:Q:100:ILE:HB	2:Q:136:VAL:CG2	2.17	0.74
2:S:22:ASP:O	2:S:24:ASP:N	2.21	0.74
1:B:71:PHE:CB	1:B:108:ASP:HB2	2.17	0.74
1:F:279:ILE:HD13	1:F:279:ILE:H	1.53	0.74
2:P:6:GLU:HG3	2:P:7:GLU:H	1.53	0.74
2:P:100:ILE:HB	2:P:136:VAL:CG2	2.17	0.74
2:S:56:ASP:HB3	2:S:60:ASN:OD1	1.86	0.74
1:B:96:ILE:O	1:B:100:LEU:HG	1.88	0.74
1:E:182:ILE:O	1:E:187:SER:HB2	1.87	0.74
1:F:71:PHE:CB	1:F:108:ASP:HB2	2.17	0.74
1:A:152:LEU:HD21	1:A:171:TYR:CE1	2.23	0.74
1:B:182:ILE:O	1:B:187:SER:HB2	1.86	0.74
1:B:353:LYS:H	1:B:368:GLN:NE2	1.84	0.74
1:C:324:THR:HB	1:C:499:PRO:HA	1.68	0.74
1:C:674:SER:O	1:C:676:VAL:N	2.20	0.74
1:D:540:ARG:NH2	2:R:87:GLU:OE1	2.21	0.74
1:C:140:ARG:HA	1:C:140:ARG:NE	2.02	0.74
2:S:62:THR:CG2	2:S:62:THR:CA	2.65	0.74
1:B:497:LEU:HD13	1:B:556:MET:HG2	1.70	0.73
1:B:668:SER:HA	2:P:14:GLU:HG3	1.70	0.73
1:D:182:ILE:O	1:D:187:SER:HB2	1.87	0.73
1:D:337:ASN:ND2	1:D:412:GLU:OE2	2.21	0.73
1:E:71:PHE:CB	1:E:108:ASP:HB2	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:497:LEU:HD13	1:F:556:MET:HG2	1.70	0.73
1:F:550:SER:CB	1:F:553:GLN:HG3	2.17	0.73
1:A:71:PHE:CB	1:A:108:ASP:HB2	2.17	0.73
1:A:345:THR:HG22	1:A:490:ALA:O	1.87	0.73
1:B:140:ARG:HA	1:B:140:ARG:NE	2.03	0.73
1:C:540:ARG:NH2	2:Q:87:GLU:OE1	2.22	0.73
1:A:324:THR:HB	1:A:499:PRO:HA	1.69	0.73
1:B:450:ASN:HD22	1:B:452:GLU:HG3	1.53	0.73
1:D:153:ILE:O	1:D:154:ILE:HD13	1.88	0.73
1:E:324:THR:HB	1:E:499:PRO:HA	1.69	0.73
1:A:279:ILE:HD13	1:A:279:ILE:H	1.53	0.73
1:F:450:ASN:ND2	1:F:452:GLU:HG3	2.03	0.73
1:F:549:LEU:HB2	1:F:553:GLN:HE21	1.53	0.73
2:Q:109:MSE:HG3	2:Q:116:LEU:HD11	1.71	0.73
2:T:6:GLU:HG3	2:T:7:GLU:H	1.52	0.73
1:C:96:ILE:O	1:C:100:LEU:HG	1.88	0.73
1:C:270:LYS:HD3	1:C:273:LYS:HD2	1.70	0.73
1:C:318:ILE:H	1:C:318:ILE:HD12	1.52	0.73
1:C:353:LYS:H	1:C:368:GLN:NE2	1.85	0.73
1:D:176:GLY:C	1:D:178:SER:H	1.92	0.73
1:A:153:ILE:O	1:A:154:ILE:HD13	1.88	0.73
1:F:152:LEU:HD21	1:F:171:TYR:CE1	2.22	0.73
1:F:337:ASN:ND2	1:F:412:GLU:OE2	2.22	0.73
1:F:668:SER:HA	2:T:14:GLU:HG3	1.69	0.73
2:S:6:GLU:HG3	2:S:7:GLU:H	1.53	0.73
1:D:270:LYS:HD3	1:D:273:LYS:HD2	1.70	0.73
1:E:353:LYS:H	1:E:368:GLN:NE2	1.84	0.73
2:P:22:ASP:O	2:P:24:ASP:N	2.20	0.73
2:P:109:MSE:HG3	2:P:116:LEU:HD11	1.70	0.73
2:Q:56:ASP:OD2	2:Q:61:GLY:N	2.21	0.73
1:D:308:VAL:HB	1:D:311:HIS:ND1	2.04	0.73
1:E:270:LYS:HD3	1:E:273:LYS:HD2	1.70	0.73
1:B:179:LEU:C	1:B:183:SER:HB2	2.07	0.73
1:F:728:ALA:O	1:F:732:ILE:HG12	1.88	0.73
2:R:6:GLU:HG3	2:R:7:GLU:H	1.53	0.73
1:A:296:LEU:N	1:A:296:LEU:CD2	2.49	0.73
1:A:450:ASN:HD22	1:A:452:GLU:HG3	1.52	0.73
2:Q:102:ALA:HB2	2:Q:125:ILE:HG13	1.71	0.72
1:A:353:LYS:H	1:A:368:GLN:NE2	1.85	0.72
1:D:550:SER:CB	1:D:553:GLN:HG3	2.18	0.72
1:D:668:SER:HA	2:R:14:GLU:HG3	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:408:LEU:H	1:E:408:LEU:CD1	1.96	0.72
1:E:450:ASN:HD22	1:E:452:GLU:HG3	1.54	0.72
1:E:515:LYS:HB3	1:E:515:LYS:HZ2	1.54	0.72
1:A:549:LEU:HB2	1:A:553:GLN:HE21	1.52	0.72
1:C:279:ILE:HD13	1:C:279:ILE:H	1.54	0.72
1:E:668:SER:HA	2:S:14:GLU:HG3	1.69	0.72
2:Q:6:GLU:HG3	2:Q:7:GLU:H	1.53	0.72
1:A:450:ASN:ND2	1:A:452:GLU:HG3	2.04	0.72
1:A:694:VAL:HG23	2:O:18:LEU:HD11	1.71	0.72
1:C:728:ALA:O	1:C:732:ILE:HG12	1.89	0.72
1:D:324:THR:HB	1:D:499:PRO:HA	1.70	0.72
1:D:450:ASN:ND2	1:D:452:GLU:HG3	2.04	0.72
1:E:96:ILE:O	1:E:100:LEU:HG	1.89	0.72
1:F:140:ARG:HA	1:F:140:ARG:NE	2.03	0.72
1:F:305:SER:OG	1:F:307:LEU:HD13	1.88	0.72
2:R:102:ALA:HB2	2:R:125:ILE:HG13	1.71	0.72
1:B:152:LEU:HD21	1:B:171:TYR:CE1	2.24	0.72
1:D:217:LYS:HZ2	1:D:217:LYS:HB3	1.54	0.72
2:Q:22:ASP:O	2:Q:24:ASP:N	2.21	0.72
2:R:109:MSE:HG3	2:R:116:LEU:HD11	1.72	0.72
1:B:279:ILE:H	1:B:279:ILE:HD13	1.54	0.72
1:D:728:ALA:O	1:D:732:ILE:HG12	1.89	0.72
1:F:296:LEU:N	1:F:296:LEU:CD2	2.48	0.72
1:F:308:VAL:HB	1:F:311:HIS:ND1	2.04	0.72
1:F:324:THR:HB	1:F:499:PRO:HA	1.70	0.72
1:A:270:LYS:HD3	1:A:273:LYS:HD2	1.70	0.72
1:C:668:SER:HA	2:Q:14:GLU:HG3	1.70	0.72
1:E:152:LEU:HD21	1:E:171:TYR:CE1	2.24	0.72
1:E:279:ILE:HD13	1:E:279:ILE:H	1.54	0.72
1:E:345:THR:HG22	1:E:490:ALA:O	1.90	0.72
1:A:109:ILE:HD13	1:A:157:LYS:HZ3	1.54	0.72
1:E:140:ARG:HA	1:E:140:ARG:NE	2.03	0.72
2:O:6:GLU:HG3	2:O:7:GLU:H	1.52	0.72
1:A:639:ASN:ND2	1:A:639:ASN:H	1.88	0.72
1:A:728:ALA:O	1:A:732:ILE:HG12	1.89	0.72
1:B:345:THR:HG22	1:B:490:ALA:O	1.90	0.72
1:B:401:ILE:HD13	1:B:485:LEU:O	1.89	0.72
1:C:79:ILE:O	1:C:81:GLN:N	2.23	0.72
1:F:387:ASN:HB3	1:F:477:MET:SD	2.29	0.72
1:A:96:ILE:O	1:A:100:LEU:HG	1.89	0.72
1:F:109:ILE:CD1	1:F:157:LYS:HZ2	2.02	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:56:ASP:OD2	2:S:61:GLY:N	2.23	0.72
1:B:270:LYS:HD3	1:B:273:LYS:HD2	1.70	0.71
1:F:96:ILE:O	1:F:100:LEU:HG	1.89	0.71
2:T:56:ASP:OD2	2:T:61:GLY:N	2.23	0.71
1:F:401:ILE:HD13	1:F:485:LEU:O	1.91	0.71
1:A:188:LEU:HD23	1:A:188:LEU:H	1.55	0.71
1:A:308:VAL:HB	1:A:311:HIS:ND1	2.04	0.71
1:A:401:ILE:HD13	1:A:485:LEU:O	1.91	0.71
1:B:109:ILE:CD1	1:B:157:LYS:HZ2	2.04	0.71
1:B:694:VAL:HG23	2:P:18:LEU:HD11	1.72	0.71
1:C:540:ARG:HD3	1:C:627:TYR:CZ	2.25	0.71
1:D:96:ILE:O	1:D:100:LEU:HG	1.89	0.71
1:E:550:SER:CB	1:E:553:GLN:HG3	2.18	0.71
1:A:769:SER:O	1:A:769:SER:OG	1.99	0.71
1:C:188:LEU:HD23	1:C:188:LEU:H	1.55	0.71
1:C:337:ASN:ND2	1:C:412:GLU:OE2	2.23	0.71
1:C:530:THR:O	1:C:534:ILE:HG13	1.90	0.71
1:D:188:LEU:HD23	1:D:188:LEU:H	1.55	0.71
2:T:51:MSE:CB	2:T:71:MSE:HE2	2.21	0.71
1:B:199:LEU:C	1:B:201:ASP:H	1.99	0.71
1:B:635:ILE:HD12	1:B:635:ILE:N	2.06	0.71
1:C:308:VAL:HB	1:C:311:HIS:ND1	2.05	0.71
1:D:79:ILE:O	1:D:81:GLN:N	2.23	0.71
1:D:279:ILE:H	1:D:279:ILE:HD13	1.54	0.71
1:E:109:ILE:CD1	1:E:157:LYS:HZ2	2.04	0.71
1:E:337:ASN:ND2	1:E:412:GLU:OE2	2.22	0.71
1:E:694:VAL:HG23	2:S:18:LEU:HD11	1.71	0.71
1:B:728:ALA:O	1:B:732:ILE:HG12	1.89	0.71
1:D:401:ILE:HD13	1:D:485:LEU:O	1.90	0.71
1:E:728:ALA:O	1:E:732:ILE:HG12	1.90	0.71
1:F:109:ILE:HD13	1:F:157:LYS:NZ	2.06	0.71
1:F:694:VAL:HG23	2:T:18:LEU:HD11	1.72	0.71
1:B:337:ASN:ND2	1:B:412:GLU:OE2	2.22	0.71
1:C:401:ILE:HD13	1:C:485:LEU:O	1.90	0.71
1:C:497:LEU:HD13	1:C:556:MET:HG2	1.72	0.71
1:D:109:ILE:HD13	1:D:157:LYS:NZ	2.06	0.71
1:F:345:THR:HG22	1:F:490:ALA:O	1.90	0.71
1:B:308:VAL:HB	1:B:311:HIS:ND1	2.04	0.71
1:C:109:ILE:HD13	1:C:157:LYS:NZ	2.05	0.71
1:A:109:ILE:HD13	1:A:157:LYS:NZ	2.06	0.71
1:A:497:LEU:HD13	1:A:556:MET:HG2	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:635:ILE:HD12	1:A:635:ILE:N	2.06	0.71
1:D:270:LYS:O	1:D:273:LYS:HB2	1.91	0.71
1:D:345:THR:HG22	1:D:490:ALA:O	1.89	0.71
1:D:639:ASN:ND2	1:D:639:ASN:H	1.89	0.71
1:A:337:ASN:ND2	1:A:412:GLU:OE2	2.22	0.71
1:A:387:ASN:HB3	1:A:477:MET:SD	2.30	0.71
1:B:478:ALA:HB1	1:B:486:LYS:O	1.91	0.71
1:C:296:LEU:N	1:C:296:LEU:CD2	2.48	0.71
1:C:581:GLN:NE2	1:C:629:ASN:H	1.89	0.71
1:C:639:ASN:ND2	1:C:639:ASN:H	1.88	0.71
1:D:462:ILE:HG12	1:D:463:THR:N	2.06	0.71
1:D:540:ARG:HD3	1:D:627:TYR:CZ	2.26	0.71
1:E:109:ILE:HD13	1:E:157:LYS:NZ	2.06	0.71
1:E:497:LEU:HD13	1:E:556:MET:HG2	1.72	0.71
1:E:639:ASN:H	1:E:639:ASN:ND2	1.88	0.71
1:F:90:PRO:HD3	1:F:249:PHE:CE2	2.26	0.71
2:R:56:ASP:HB3	2:R:60:ASN:OD1	1.91	0.71
1:A:540:ARG:HD3	1:A:627:TYR:CZ	2.26	0.70
1:B:296:LEU:H	1:B:296:LEU:CD2	1.91	0.70
1:C:697:ILE:C	1:C:699:GLY:H	1.98	0.70
1:D:199:LEU:C	1:D:201:ASP:H	1.99	0.70
1:D:296:LEU:N	1:D:296:LEU:CD2	2.49	0.70
2:O:58:ASP:HB2	2:O:62:THR:HG23	1.73	0.70
2:P:58:ASP:HB2	2:P:62:THR:HG23	1.73	0.70
2:Q:56:ASP:OD2	2:Q:60:ASN:CA	2.39	0.70
1:B:217:LYS:HZ2	1:B:217:LYS:HB3	1.56	0.70
1:C:462:ILE:HG12	1:C:463:THR:N	2.06	0.70
1:E:308:VAL:HB	1:E:311:HIS:ND1	2.05	0.70
1:E:530:THR:O	1:E:534:ILE:HG13	1.91	0.70
2:O:56:ASP:HB3	2:O:60:ASN:OD1	1.91	0.70
1:A:79:ILE:O	1:A:81:GLN:N	2.23	0.70
1:A:118:GLN:OE1	1:A:118:GLN:HA	1.92	0.70
1:B:188:LEU:HD23	1:B:188:LEU:H	1.55	0.70
1:E:630:ARG:NH1	2:S:83:GLU:HG2	2.07	0.70
1:F:188:LEU:HD23	1:F:188:LEU:H	1.55	0.70
2:Q:36:MSE:CE	2:Q:43:PRO:HG3	2.21	0.70
2:Q:51:MSE:CB	2:Q:71:MSE:HE2	2.21	0.70
1:A:199:LEU:C	1:A:201:ASP:H	1.99	0.70
1:B:450:ASN:ND2	1:B:452:GLU:HG3	2.05	0.70
1:C:635:ILE:HD12	1:C:635:ILE:N	2.06	0.70
1:C:694:VAL:HG23	2:Q:18:LEU:HD11	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:79:ILE:O	1:E:81:GLN:N	2.24	0.70
1:B:118:GLN:OE1	1:B:118:GLN:HA	1.90	0.70
1:D:152:LEU:HD21	1:D:171:TYR:CE1	2.22	0.70
1:E:76:LEU:H	1:E:76:LEU:HD22	1.57	0.70
2:T:102:ALA:HB2	2:T:125:ILE:HG13	1.73	0.70
1:B:197:LYS:HZ2	1:B:197:LYS:HB3	1.55	0.70
1:B:288:VAL:HG23	1:B:289:GLU:N	2.06	0.70
1:C:218:LEU:HD11	1:C:225:ILE:HD11	1.74	0.70
1:C:450:ASN:ND2	1:C:452:GLU:HG3	2.05	0.70
1:D:635:ILE:HD12	1:D:635:ILE:N	2.07	0.70
2:Q:59:GLY:O	2:Q:62:THR:CG2	2.39	0.70
1:B:79:ILE:O	1:B:81:GLN:N	2.23	0.70
1:D:630:ARG:NH1	2:R:83:GLU:HG2	2.06	0.70
1:E:401:ILE:HD13	1:E:485:LEU:O	1.91	0.70
1:F:118:GLN:OE1	1:F:118:GLN:HA	1.92	0.70
1:F:478:ALA:HB1	1:F:486:LYS:O	1.91	0.70
1:B:109:ILE:HD13	1:B:157:LYS:NZ	2.06	0.70
1:E:225:ILE:HG22	1:E:225:ILE:O	1.92	0.70
1:F:199:LEU:C	1:F:201:ASP:H	2.00	0.70
1:C:199:LEU:C	1:C:201:ASP:H	2.00	0.70
1:E:450:ASN:ND2	1:E:452:GLU:HG3	2.06	0.70
1:F:79:ILE:O	1:F:81:GLN:N	2.25	0.70
2:P:30:LYS:H	2:P:30:LYS:CD	2.04	0.70
2:S:36:MSE:CE	2:S:43:PRO:HG3	2.22	0.70
1:A:462:ILE:HG12	1:A:463:THR:N	2.07	0.70
1:A:517:VAL:HG23	1:A:518:ASN:ND2	2.06	0.70
1:B:472:ARG:HH11	1:B:472:ARG:CB	2.05	0.70
1:C:109:ILE:HD13	1:C:157:LYS:HZ3	1.56	0.70
1:D:218:LEU:HD11	1:D:225:ILE:HD11	1.74	0.70
1:D:581:GLN:NE2	1:D:629:ASN:H	1.89	0.70
1:D:697:ILE:C	1:D:699:GLY:H	2.00	0.70
1:E:288:VAL:HG23	1:E:289:GLU:N	2.07	0.70
1:F:462:ILE:HG12	1:F:463:THR:N	2.07	0.70
2:R:36:MSE:CE	2:R:43:PRO:HG3	2.22	0.70
2:S:102:ALA:HB2	2:S:125:ILE:HG13	1.73	0.70
1:C:152:LEU:HD21	1:C:171:TYR:CE1	2.23	0.69
1:D:472:ARG:HH11	1:D:472:ARG:CB	2.05	0.69
1:E:90:PRO:HD3	1:E:249:PHE:CE2	2.27	0.69
1:E:635:ILE:HD12	1:E:635:ILE:N	2.07	0.69
2:T:30:LYS:H	2:T:30:LYS:CD	2.04	0.69
1:B:639:ASN:ND2	1:B:639:ASN:H	1.89	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:153:ILE:O	1:C:154:ILE:HD13	1.90	0.69
1:D:497:LEU:HD13	1:D:556:MET:HG2	1.71	0.69
1:E:501:LEU:CD2	2:S:112:LEU:HD21	2.22	0.69
1:F:288:VAL:HG23	1:F:289:GLU:N	2.07	0.69
2:O:28:THR:HB	2:O:30:LYS:HZ3	1.57	0.69
2:P:51:MSE:CB	2:P:71:MSE:HE2	2.22	0.69
1:A:630:ARG:NH1	2:O:83:GLU:HG2	2.07	0.69
1:B:517:VAL:HG23	1:B:518:ASN:ND2	2.07	0.69
1:B:697:ILE:C	1:B:699:GLY:H	1.99	0.69
1:D:90:PRO:HD3	1:D:249:PHE:CE2	2.26	0.69
1:D:130:SER:HB2	1:D:170:TYR:HE2	1.57	0.69
1:D:288:VAL:HG23	1:D:289:GLU:N	2.07	0.69
1:D:517:VAL:HG23	1:D:518:ASN:ND2	2.07	0.69
1:F:639:ASN:ND2	1:F:639:ASN:H	1.89	0.69
2:P:36:MSE:CE	2:P:43:PRO:HG3	2.23	0.69
2:S:51:MSE:CB	2:S:71:MSE:HE2	2.23	0.69
2:S:56:ASP:OD2	2:S:60:ASN:CA	2.39	0.69
1:F:472:ARG:HH11	1:F:472:ARG:CB	2.05	0.69
1:F:501:LEU:CD2	2:T:112:LEU:HD21	2.21	0.69
2:R:51:MSE:CB	2:R:71:MSE:HE2	2.22	0.69
2:S:30:LYS:H	2:S:30:LYS:CD	2.05	0.69
1:A:478:ALA:HB1	1:A:486:LYS:O	1.92	0.69
1:A:697:ILE:C	1:A:699:GLY:H	1.99	0.69
1:B:90:PRO:HD3	1:B:249:PHE:CE2	2.27	0.69
1:C:478:ALA:HB1	1:C:486:LYS:O	1.91	0.69
1:C:715:GLU:HA	1:C:718:ARG:NH1	2.07	0.69
1:E:188:LEU:HD23	1:E:188:LEU:H	1.54	0.69
1:F:76:LEU:HD22	1:F:76:LEU:H	1.57	0.69
1:F:530:THR:O	1:F:534:ILE:HG13	1.91	0.69
1:B:76:LEU:H	1:B:76:LEU:HD22	1.57	0.69
1:B:387:ASN:HB3	1:B:477:MET:SD	2.32	0.69
1:B:540:ARG:HD3	1:B:627:TYR:CZ	2.27	0.69
1:E:199:LEU:C	1:E:201:ASP:H	2.00	0.69
1:E:540:ARG:HD3	1:E:627:TYR:CZ	2.27	0.69
1:F:540:ARG:HD3	1:F:627:TYR:CZ	2.27	0.69
2:P:56:ASP:OD2	2:P:60:ASN:HA	1.92	0.69
2:T:58:ASP:HB2	2:T:62:THR:HG23	1.72	0.69
1:A:288:VAL:HG23	1:A:289:GLU:N	2.08	0.69
1:B:225:ILE:HG22	1:B:225:ILE:O	1.92	0.69
1:B:530:THR:O	1:B:534:ILE:HG13	1.92	0.69
1:C:225:ILE:O	1:C:225:ILE:HG22	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:387:ASN:HB3	1:E:477:MET:SD	2.33	0.69
1:F:517:VAL:HG23	1:F:518:ASN:ND2	2.06	0.69
2:O:51:MSE:CB	2:O:71:MSE:HE2	2.22	0.69
2:P:5:THR:CG2	2:P:8:GLN:HB2	2.23	0.69
1:B:462:ILE:HG12	1:B:463:THR:N	2.07	0.69
1:C:148:GLU:HG3	1:C:149:THR:HG22	1.75	0.69
1:C:345:THR:HG22	1:C:490:ALA:O	1.92	0.69
1:C:387:ASN:HB3	1:C:477:MET:SD	2.32	0.69
1:D:86:LEU:HA	1:D:89:ILE:HD12	1.75	0.69
1:E:218:LEU:HD11	1:E:225:ILE:HD11	1.75	0.69
1:F:175:LYS:HB2	1:F:175:LYS:NZ	2.07	0.69
2:O:30:LYS:H	2:O:30:LYS:CD	2.04	0.69
2:O:102:ALA:HB2	2:O:125:ILE:HG13	1.74	0.69
1:A:480:ASN:HD21	1:A:483:GLY:H	1.38	0.69
1:A:501:LEU:CD2	2:O:112:LEU:HD21	2.20	0.69
1:B:279:ILE:H	1:B:279:ILE:CD1	2.06	0.69
1:C:403:LEU:HG	1:C:405:LEU:CD1	2.23	0.69
1:C:517:VAL:HG23	1:C:518:ASN:ND2	2.07	0.69
1:D:148:GLU:HG3	1:D:149:THR:HG22	1.75	0.69
1:D:175:LYS:HB2	1:D:175:LYS:NZ	2.08	0.69
1:D:275:GLY:HA2	1:D:278:LYS:HG3	1.75	0.69
1:D:403:LEU:HG	1:D:405:LEU:CD1	2.23	0.69
1:E:175:LYS:NZ	1:E:175:LYS:HB2	2.08	0.69
1:F:218:LEU:HD11	1:F:225:ILE:HD11	1.75	0.69
1:F:635:ILE:HD12	1:F:635:ILE:N	2.07	0.69
2:P:102:ALA:HB2	2:P:125:ILE:HG13	1.74	0.69
2:Q:63:ILE:HB	2:Q:67:GLU:HB3	1.75	0.69
1:A:175:LYS:HB2	1:A:175:LYS:NZ	2.08	0.69
1:B:480:ASN:HD21	1:B:483:GLY:H	1.39	0.69
1:C:118:GLN:OE1	1:C:118:GLN:HA	1.92	0.69
1:C:217:LYS:HB3	1:C:217:LYS:HZ2	1.58	0.69
1:F:697:ILE:C	1:F:699:GLY:H	1.99	0.69
2:P:28:THR:HB	2:P:30:LYS:HZ3	1.58	0.69
1:B:270:LYS:O	1:B:273:LYS:HB2	1.93	0.68
1:C:630:ARG:NH1	2:Q:83:GLU:HG2	2.08	0.68
1:E:118:GLN:OE1	1:E:118:GLN:HA	1.92	0.68
1:E:122:GLU:HG3	1:E:147:ARG:CB	2.23	0.68
1:E:148:GLU:HG3	1:E:149:THR:HG22	1.75	0.68
1:A:218:LEU:HD11	1:A:225:ILE:HD11	1.75	0.68
1:B:148:GLU:HG3	1:B:149:THR:HG22	1.75	0.68
1:C:90:PRO:HD3	1:C:249:PHE:CE2	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:288:VAL:HG23	1:C:289:GLU:N	2.07	0.68
1:D:118:GLN:HA	1:D:118:GLN:OE1	1.93	0.68
1:E:270:LYS:O	1:E:273:LYS:HB2	1.93	0.68
1:E:697:ILE:C	1:E:699:GLY:H	1.99	0.68
1:F:480:ASN:HD21	1:F:483:GLY:H	1.39	0.68
1:F:630:ARG:NH1	2:T:83:GLU:HG2	2.08	0.68
1:A:90:PRO:HD3	1:A:249:PHE:CE2	2.27	0.68
1:B:175:LYS:HB2	1:B:175:LYS:NZ	2.07	0.68
1:B:715:GLU:HA	1:B:718:ARG:NH1	2.08	0.68
1:E:74:GLU:HB2	1:E:78:LYS:HB3	1.76	0.68
1:E:480:ASN:HD21	1:E:483:GLY:H	1.40	0.68
2:O:36:MSE:HE1	2:O:51:MSE:HE1	1.75	0.68
2:Q:36:MSE:HE1	2:Q:51:MSE:HE1	1.76	0.68
1:C:130:SER:HB2	1:C:170:TYR:HE2	1.58	0.68
1:C:175:LYS:HB2	1:C:175:LYS:NZ	2.08	0.68
1:D:225:ILE:O	1:D:225:ILE:HG22	1.92	0.68
1:D:480:ASN:HD21	1:D:483:GLY:H	1.40	0.68
1:D:715:GLU:HA	1:D:718:ARG:NH1	2.08	0.68
2:O:5:THR:CG2	2:O:8:GLN:HB2	2.23	0.68
2:Q:5:THR:CG2	2:Q:8:GLN:HB2	2.24	0.68
1:A:715:GLU:HA	1:A:718:ARG:NH1	2.09	0.68
1:D:387:ASN:HB3	1:D:477:MET:SD	2.32	0.68
1:D:694:VAL:HG23	2:R:18:LEU:HD11	1.73	0.68
1:E:478:ALA:HB1	1:E:486:LYS:O	1.93	0.68
1:E:517:VAL:HG23	1:E:518:ASN:ND2	2.08	0.68
1:F:403:LEU:HG	1:F:405:LEU:CD1	2.24	0.68
2:P:36:MSE:HE1	2:P:51:MSE:HE1	1.76	0.68
2:Q:28:THR:HB	2:Q:30:LYS:NZ	2.09	0.68
2:Q:30:LYS:H	2:Q:30:LYS:CD	2.05	0.68
1:A:186:LYS:O	1:A:188:LEU:O	2.12	0.68
1:A:275:GLY:HA2	1:A:278:LYS:HG3	1.76	0.68
1:B:403:LEU:HG	1:B:405:LEU:CD1	2.24	0.68
1:D:478:ALA:HB1	1:D:486:LYS:O	1.92	0.68
1:E:715:GLU:HA	1:E:718:ARG:NH1	2.08	0.68
2:O:36:MSE:CE	2:O:43:PRO:HG3	2.22	0.68
2:R:30:LYS:H	2:R:30:LYS:CD	2.05	0.68
2:S:5:THR:CG2	2:S:8:GLN:HB2	2.24	0.68
1:A:76:LEU:HD22	1:A:76:LEU:H	1.58	0.68
1:C:76:LEU:O	1:C:80:GLN:N	2.27	0.68
1:C:270:LYS:O	1:C:273:LYS:HB2	1.93	0.68
1:E:186:LYS:O	1:E:188:LEU:O	2.11	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:462:ILE:HG12	1:E:463:THR:N	2.07	0.68
1:F:86:LEU:HA	1:F:89:ILE:HD12	1.76	0.68
1:F:279:ILE:H	1:F:279:ILE:CD1	2.05	0.68
1:C:76:LEU:HD22	1:C:76:LEU:H	1.58	0.68
1:D:516:VAL:HG21	1:D:532:LEU:HD11	1.75	0.68
1:F:715:GLU:HA	1:F:718:ARG:NH1	2.09	0.68
2:P:13:LYS:HZ3	2:P:65:PHE:HB3	1.58	0.68
2:P:56:ASP:HB3	2:P:60:ASN:OD1	1.93	0.68
1:B:630:ARG:NH1	2:P:83:GLU:HG2	2.09	0.68
2:O:63:ILE:HB	2:O:67:GLU:HB3	1.75	0.68
2:R:63:ILE:HB	2:R:67:GLU:HB3	1.75	0.68
2:R:94:LYS:NZ	2:R:94:LYS:HB3	2.09	0.68
1:B:218:LEU:HD11	1:B:225:ILE:HD11	1.76	0.68
1:D:76:LEU:HD22	1:D:76:LEU:H	1.58	0.68
1:D:76:LEU:O	1:D:80:GLN:N	2.27	0.68
1:F:74:GLU:HB2	1:F:78:LYS:HB3	1.76	0.68
2:Q:94:LYS:HB3	2:Q:94:LYS:NZ	2.09	0.68
2:T:28:THR:HB	2:T:30:LYS:NZ	2.09	0.68
1:C:480:ASN:HD21	1:C:483:GLY:H	1.39	0.67
1:D:186:LYS:O	1:D:188:LEU:O	2.12	0.67
1:E:581:GLN:NE2	1:E:629:ASN:H	1.91	0.67
2:R:5:THR:CG2	2:R:8:GLN:HB2	2.24	0.67
2:R:49:GLN:NE2	2:R:49:GLN:H	1.92	0.67
2:S:62:THR:CG2	2:S:62:THR:N	2.57	0.67
1:A:130:SER:HB2	1:A:170:TYR:HE2	1.58	0.67
1:A:403:LEU:HG	1:A:405:LEU:CD1	2.25	0.67
1:E:76:LEU:O	1:E:80:GLN:N	2.28	0.67
1:E:403:LEU:HG	1:E:405:LEU:CD1	2.24	0.67
1:F:225:ILE:O	1:F:225:ILE:HG22	1.93	0.67
2:P:63:ILE:HB	2:P:67:GLU:HB3	1.76	0.67
1:A:270:LYS:O	1:A:273:LYS:HB2	1.93	0.67
1:C:186:LYS:O	1:C:188:LEU:O	2.11	0.67
1:F:76:LEU:O	1:F:80:GLN:N	2.27	0.67
1:F:581:GLN:NE2	1:F:629:ASN:H	1.93	0.67
2:Q:13:LYS:HZ2	2:Q:65:PHE:HB3	1.59	0.67
2:Q:58:ASP:HB2	2:Q:62:THR:HG23	1.75	0.67
1:A:788:ASP:O	1:A:792:VAL:HG23	1.95	0.67
1:B:122:GLU:HG3	1:B:147:ARG:CB	2.23	0.67
2:O:28:THR:HB	2:O:30:LYS:NZ	2.08	0.67
2:R:36:MSE:HE1	2:R:51:MSE:HE1	1.76	0.67
2:R:106:ARG:O	2:R:110:THR:HG23	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:36:MSE:CE	2:T:43:PRO:HG3	2.22	0.67
2:T:63:ILE:HB	2:T:67:GLU:HB3	1.76	0.67
1:C:472:ARG:HH11	1:C:472:ARG:CB	2.06	0.67
1:D:165:GLN:HE21	1:D:251:PRO:HG2	1.59	0.67
1:D:718:ARG:HH11	1:D:767:GLN:HE21	1.42	0.67
1:E:472:ARG:HH11	1:E:472:ARG:CB	2.05	0.67
1:E:739:LYS:HG2	1:E:740:GLN:H	1.60	0.67
1:F:165:GLN:HE21	1:F:251:PRO:HG2	1.59	0.67
1:F:275:GLY:HA2	1:F:278:LYS:HG3	1.75	0.67
2:R:56:ASP:OD2	2:R:61:GLY:N	2.28	0.67
2:T:5:THR:CG2	2:T:8:GLN:HB2	2.24	0.67
1:A:739:LYS:HG2	1:A:740:GLN:H	1.59	0.67
1:B:165:GLN:HE21	1:B:251:PRO:HG2	1.59	0.67
1:C:275:GLY:HA2	1:C:278:LYS:HG3	1.76	0.67
1:C:671:ARG:NH1	1:C:677:GLY:HA3	2.10	0.67
2:S:63:ILE:HB	2:S:67:GLU:HB3	1.75	0.67
1:A:472:ARG:HH11	1:A:472:ARG:CB	2.06	0.67
1:A:609:GLU:OE2	1:A:609:GLU:N	2.25	0.67
1:A:671:ARG:NH1	1:A:677:GLY:HA3	2.10	0.67
1:E:175:LYS:O	1:E:178:SER:N	2.28	0.67
1:F:183:SER:O	1:F:187:SER:HB3	1.94	0.67
1:F:186:LYS:O	1:F:188:LEU:O	2.12	0.67
1:A:148:GLU:HG3	1:A:149:THR:HG22	1.75	0.67
1:A:217:LYS:HZ2	1:A:217:LYS:HB3	1.59	0.67
1:E:788:ASP:O	1:E:792:VAL:HG23	1.95	0.67
2:Q:106:ARG:O	2:Q:110:THR:HG23	1.95	0.67
1:B:186:LYS:O	1:B:188:LEU:O	2.12	0.67
1:B:671:ARG:NH1	1:B:677:GLY:HA3	2.10	0.67
1:C:86:LEU:HA	1:C:89:ILE:HD12	1.76	0.67
1:C:183:SER:O	1:C:187:SER:HB3	1.95	0.67
1:D:462:ILE:HD11	1:D:466:GLY:HA2	1.77	0.67
2:P:49:GLN:NE2	2:P:49:GLN:H	1.93	0.67
1:A:86:LEU:HA	1:A:89:ILE:HD12	1.76	0.67
1:C:165:GLN:HE21	1:C:251:PRO:HG2	1.60	0.67
1:D:609:GLU:OE2	1:D:609:GLU:N	2.26	0.67
1:F:385:LEU:HD13	1:F:385:LEU:O	1.95	0.67
1:F:739:LYS:HG2	1:F:740:GLN:H	1.60	0.67
1:F:788:ASP:O	1:F:792:VAL:HG23	1.95	0.67
2:O:49:GLN:NE2	2:O:49:GLN:H	1.93	0.67
2:Q:5:THR:HG23	2:Q:8:GLN:CB	2.25	0.67
1:A:279:ILE:H	1:A:279:ILE:CD1	2.05	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:581:GLN:NE2	1:A:629:ASN:H	1.92	0.66
1:B:164:GLU:O	1:B:167:LYS:HG2	1.96	0.66
1:B:175:LYS:HB2	1:B:175:LYS:HZ2	1.59	0.66
1:B:246:SER:O	1:B:250:ALA:HB2	1.95	0.66
1:B:275:GLY:HA2	1:B:278:LYS:HG3	1.76	0.66
1:B:739:LYS:HG2	1:B:740:GLN:H	1.59	0.66
1:C:737:LYS:HE2	1:C:737:LYS:HA	1.76	0.66
1:D:183:SER:O	1:D:187:SER:HB3	1.94	0.66
1:D:501:LEU:CD2	2:R:112:LEU:HD21	2.21	0.66
1:E:275:GLY:HA2	1:E:278:LYS:CE	2.25	0.66
1:F:397:GLU:HG3	1:F:480:ASN:HB3	1.78	0.66
2:S:49:GLN:NE2	2:S:49:GLN:H	1.93	0.66
2:T:36:MSE:HE1	2:T:51:MSE:HE1	1.76	0.66
1:C:515:LYS:HZ2	1:C:515:LYS:HB3	1.59	0.66
2:O:28:THR:HG21	2:O:30:LYS:HZ1	1.59	0.66
2:O:106:ARG:O	2:O:110:THR:HG23	1.95	0.66
1:A:183:SER:O	1:A:187:SER:HB3	1.95	0.66
1:B:142:VAL:HG13	1:B:154:ILE:HD12	1.76	0.66
1:C:516:VAL:HG21	1:C:532:LEU:HD11	1.77	0.66
1:C:788:ASP:O	1:C:792:VAL:HG23	1.95	0.66
2:P:28:THR:HB	2:P:30:LYS:NZ	2.09	0.66
2:T:49:GLN:NE2	2:T:49:GLN:H	1.93	0.66
1:A:142:VAL:HG13	1:A:154:ILE:HD12	1.75	0.66
1:A:165:GLN:CD	1:A:252:ASP:HB3	2.21	0.66
1:B:183:SER:O	1:B:187:SER:HB3	1.95	0.66
1:B:385:LEU:O	1:B:385:LEU:HD13	1.96	0.66
1:C:74:GLU:HB2	1:C:78:LYS:HB3	1.76	0.66
1:C:175:LYS:O	1:C:178:SER:N	2.29	0.66
1:D:74:GLU:HB2	1:D:78:LYS:HB3	1.77	0.66
1:D:175:LYS:O	1:D:178:SER:N	2.28	0.66
1:D:275:GLY:HA2	1:D:278:LYS:CE	2.26	0.66
2:O:94:LYS:NZ	2:O:94:LYS:HB3	2.11	0.66
2:P:94:LYS:NZ	2:P:94:LYS:HB3	2.10	0.66
2:S:28:THR:HB	2:S:30:LYS:NZ	2.09	0.66
1:A:165:GLN:HE21	1:A:251:PRO:HG2	1.60	0.66
1:A:175:LYS:O	1:A:178:SER:N	2.28	0.66
1:B:76:LEU:O	1:B:80:GLN:N	2.28	0.66
1:B:609:GLU:OE2	1:B:609:GLU:N	2.26	0.66
1:C:739:LYS:HG2	1:C:740:GLN:H	1.60	0.66
1:D:530:THR:O	1:D:534:ILE:HG13	1.95	0.66
1:F:148:GLU:HG3	1:F:149:THR:HG22	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:175:LYS:O	1:F:178:SER:N	2.28	0.66
1:F:737:LYS:HE2	1:F:737:LYS:HA	1.76	0.66
1:A:74:GLU:HB2	1:A:78:LYS:HB3	1.77	0.66
1:A:530:THR:O	1:A:534:ILE:HG13	1.95	0.66
1:B:175:LYS:O	1:B:178:SER:N	2.28	0.66
1:B:737:LYS:HA	1:B:737:LYS:HE2	1.76	0.66
1:E:86:LEU:HA	1:E:89:ILE:HD12	1.77	0.66
1:E:462:ILE:HD11	1:E:466:GLY:HA2	1.78	0.66
1:E:516:VAL:HG21	1:E:532:LEU:HD11	1.77	0.66
1:F:270:LYS:O	1:F:273:LYS:HB2	1.94	0.66
2:Q:49:GLN:NE2	2:Q:49:GLN:H	1.93	0.66
1:B:788:ASP:O	1:B:792:VAL:HG23	1.94	0.66
1:D:122:GLU:HG3	1:D:147:ARG:CB	2.23	0.66
1:D:694:VAL:HA	1:D:697:ILE:HD12	1.78	0.66
1:E:76:LEU:H	1:E:76:LEU:CD2	2.09	0.66
1:E:130:SER:HB2	1:E:170:TYR:HE2	1.58	0.66
1:F:142:VAL:HG13	1:F:154:ILE:HD12	1.76	0.66
2:O:5:THR:HG23	2:O:8:GLN:CB	2.26	0.66
2:R:5:THR:HG23	2:R:8:GLN:CB	2.26	0.66
1:A:225:ILE:O	1:A:225:ILE:HG22	1.93	0.66
1:B:565:LYS:C	1:B:567:THR:H	2.04	0.66
1:B:718:ARG:HH11	1:B:767:GLN:HE21	1.44	0.66
1:C:275:GLY:HA2	1:C:278:LYS:CE	2.25	0.66
1:D:788:ASP:O	1:D:792:VAL:HG23	1.95	0.66
1:E:165:GLN:CD	1:E:252:ASP:HB3	2.21	0.66
1:F:90:PRO:HG2	1:F:93:VAL:HB	1.77	0.66
2:R:28:THR:HB	2:R:30:LYS:NZ	2.10	0.66
1:B:74:GLU:HB2	1:B:78:LYS:HB3	1.77	0.66
1:C:769:SER:O	1:C:769:SER:OG	2.00	0.66
1:E:165:GLN:HE21	1:E:251:PRO:HG2	1.60	0.66
1:E:217:LYS:HZ2	1:E:217:LYS:HB3	1.61	0.66
1:E:671:ARG:NH1	1:E:677:GLY:HA3	2.10	0.66
1:F:671:ARG:NH1	1:F:677:GLY:HA3	2.11	0.66
2:T:5:THR:HG23	2:T:8:GLN:CB	2.26	0.66
1:A:197:LYS:HZ2	1:A:197:LYS:HB3	1.61	0.66
1:B:581:GLN:NE2	1:B:629:ASN:H	1.92	0.66
1:D:246:SER:O	1:D:250:ALA:HB2	1.96	0.66
1:D:385:LEU:O	1:D:385:LEU:HD13	1.96	0.66
1:D:397:GLU:HG3	1:D:480:ASN:HB3	1.78	0.66
1:D:737:LYS:HE2	1:D:737:LYS:HA	1.76	0.66
1:D:776:LEU:O	1:D:776:LEU:HD23	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:565:LYS:C	1:E:567:THR:H	2.04	0.66
1:A:122:GLU:HG3	1:A:147:ARG:CB	2.23	0.65
1:A:246:SER:O	1:A:250:ALA:HB2	1.96	0.65
1:B:130:SER:HB2	1:B:170:TYR:HE2	1.58	0.65
1:B:501:LEU:CD2	2:P:112:LEU:HD21	2.21	0.65
1:C:246:SER:O	1:C:250:ALA:HB2	1.95	0.65
1:C:718:ARG:HH11	1:C:767:GLN:HE21	1.43	0.65
1:D:739:LYS:HG2	1:D:740:GLN:H	1.59	0.65
1:E:154:ILE:HG13	1:E:171:TYR:HE1	1.61	0.65
2:P:106:ARG:O	2:P:110:THR:HG23	1.94	0.65
2:R:13:LYS:HZ3	2:R:65:PHE:HB3	1.59	0.65
1:B:89:ILE:CG2	1:B:93:VAL:HG11	2.20	0.65
1:E:275:GLY:HA2	1:E:278:LYS:HG3	1.77	0.65
1:F:516:VAL:HG21	1:F:532:LEU:HD11	1.78	0.65
1:F:565:LYS:C	1:F:567:THR:H	2.03	0.65
2:S:58:ASP:HB2	2:S:62:THR:HG23	1.78	0.65
1:A:76:LEU:H	1:A:76:LEU:CD2	2.10	0.65
1:A:76:LEU:O	1:A:80:GLN:N	2.27	0.65
1:A:397:GLU:HG3	1:A:480:ASN:HB3	1.78	0.65
1:A:499:PRO:HG2	1:A:504:ILE:HD11	1.79	0.65
1:A:718:ARG:HH11	1:A:767:GLN:HE21	1.44	0.65
1:B:462:ILE:HD11	1:B:466:GLY:HA2	1.78	0.65
1:C:397:GLU:HG3	1:C:480:ASN:HB3	1.79	0.65
1:F:246:SER:O	1:F:250:ALA:HB2	1.95	0.65
2:T:94:LYS:HB3	2:T:94:LYS:NZ	2.11	0.65
1:C:776:LEU:HD23	1:C:776:LEU:O	1.97	0.65
1:D:671:ARG:NH1	1:D:677:GLY:HA3	2.11	0.65
1:E:246:SER:O	1:E:250:ALA:HB2	1.96	0.65
1:E:345:THR:HB	1:E:491:ASP:HB3	1.78	0.65
2:P:28:THR:HG21	2:P:30:LYS:HZ1	1.61	0.65
2:R:58:ASP:HB2	2:R:62:THR:HG23	1.79	0.65
1:C:122:GLU:HG3	1:C:147:ARG:CB	2.23	0.65
1:C:142:VAL:HG13	1:C:154:ILE:HD12	1.77	0.65
1:C:385:LEU:O	1:C:385:LEU:HD13	1.96	0.65
2:T:106:ARG:O	2:T:110:THR:HG23	1.95	0.65
1:B:165:GLN:CD	1:B:252:ASP:HB3	2.21	0.65
1:B:372:LYS:HD2	1:B:373:LYS:HE2	1.79	0.65
1:B:405:LEU:H	1:B:405:LEU:HD12	1.62	0.65
1:C:90:PRO:HG2	1:C:93:VAL:HB	1.78	0.65
1:D:165:GLN:CD	1:D:252:ASP:HB3	2.21	0.65
1:E:397:GLU:HG3	1:E:480:ASN:HB3	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:165:GLN:CD	1:F:252:ASP:HB3	2.21	0.65
1:B:76:LEU:H	1:B:76:LEU:CD2	2.09	0.65
1:B:90:PRO:HG2	1:B:93:VAL:HB	1.78	0.65
1:D:109:ILE:CD1	1:D:157:LYS:HZ2	2.10	0.65
1:E:164:GLU:O	1:E:167:LYS:HG2	1.97	0.65
1:F:609:GLU:OE2	1:F:609:GLU:N	2.26	0.65
2:Q:52:ILE:HG13	2:Q:63:ILE:HG23	1.79	0.65
1:A:385:LEU:O	1:A:385:LEU:HD13	1.96	0.65
1:A:462:ILE:HD11	1:A:466:GLY:HA2	1.78	0.65
1:C:164:GLU:O	1:C:167:LYS:HG2	1.96	0.65
1:D:76:LEU:H	1:D:76:LEU:CD2	2.10	0.65
1:F:164:GLU:O	1:F:167:LYS:HG2	1.97	0.65
2:R:52:ILE:HG13	2:R:63:ILE:HG23	1.79	0.65
1:A:164:GLU:O	1:A:167:LYS:HG2	1.97	0.65
1:A:275:GLY:HA2	1:A:278:LYS:CE	2.27	0.65
1:A:737:LYS:HE2	1:A:737:LYS:HA	1.77	0.65
1:B:360:VAL:HG21	1:B:365:PRO:HB3	1.79	0.65
1:C:268:MET:O	1:C:271:LEU:HB2	1.97	0.65
1:C:517:VAL:HB	1:C:525:LYS:HZ1	1.61	0.65
1:E:142:VAL:HG13	1:E:154:ILE:HD12	1.77	0.65
1:F:776:LEU:HD23	1:F:776:LEU:O	1.97	0.65
2:R:56:ASP:OD2	2:R:60:ASN:CA	2.45	0.65
2:S:36:MSE:HE1	2:S:51:MSE:HE1	1.77	0.65
1:A:694:VAL:HA	1:A:697:ILE:HD12	1.79	0.65
1:A:776:LEU:O	1:A:776:LEU:HD23	1.97	0.65
1:B:86:LEU:HA	1:B:89:ILE:HD12	1.77	0.65
1:B:397:GLU:HG3	1:B:480:ASN:HB3	1.79	0.65
1:C:148:GLU:HG3	1:C:149:THR:N	2.12	0.65
1:C:688:PHE:C	1:C:688:PHE:CD2	2.75	0.65
1:D:109:ILE:HD13	1:D:157:LYS:HZ3	1.60	0.65
1:E:183:SER:O	1:E:187:SER:HB3	1.95	0.65
1:E:776:LEU:HD23	1:E:776:LEU:O	1.97	0.65
1:F:76:LEU:H	1:F:76:LEU:CD2	2.10	0.65
1:F:688:PHE:C	1:F:688:PHE:CD2	2.75	0.65
1:F:694:VAL:HA	1:F:697:ILE:HD12	1.78	0.65
2:S:5:THR:HG23	2:S:8:GLN:CB	2.26	0.65
1:A:148:GLU:HG3	1:A:149:THR:N	2.12	0.64
1:C:405:LEU:H	1:C:405:LEU:HD12	1.61	0.64
2:S:106:ARG:O	2:S:110:THR:HG23	1.95	0.64
1:B:516:VAL:HG21	1:B:532:LEU:HD11	1.77	0.64
1:C:165:GLN:CD	1:C:252:ASP:HB3	2.22	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:360:VAL:HG21	1:C:365:PRO:HB3	1.78	0.64
1:C:462:ILE:HD11	1:C:466:GLY:HA2	1.78	0.64
1:D:142:VAL:HG13	1:D:154:ILE:HD12	1.77	0.64
1:F:718:ARG:HH11	1:F:767:GLN:HE21	1.43	0.64
2:O:51:MSE:HB2	2:O:71:MSE:HE2	1.80	0.64
2:T:51:MSE:HB2	2:T:71:MSE:HE2	1.79	0.64
1:B:122:GLU:CG	1:B:147:ARG:HB2	2.26	0.64
1:C:76:LEU:H	1:C:76:LEU:CD2	2.10	0.64
1:C:345:THR:HB	1:C:491:ASP:HB3	1.79	0.64
1:D:90:PRO:HG2	1:D:93:VAL:HB	1.78	0.64
1:D:164:GLU:O	1:D:167:LYS:HG2	1.97	0.64
1:D:372:LYS:HD2	1:D:373:LYS:HE2	1.78	0.64
1:F:499:PRO:HG2	1:F:504:ILE:HD11	1.79	0.64
2:O:52:ILE:HG13	2:O:63:ILE:HG23	1.79	0.64
1:A:175:LYS:HB2	1:A:175:LYS:HZ2	1.62	0.64
1:A:516:VAL:HG21	1:A:532:LEU:HD11	1.78	0.64
1:A:565:LYS:C	1:A:567:THR:H	2.04	0.64
1:C:609:GLU:OE2	1:C:609:GLU:N	2.26	0.64
1:E:737:LYS:HA	1:E:737:LYS:HE2	1.76	0.64
1:F:130:SER:HB2	1:F:170:TYR:HE2	1.59	0.64
2:S:52:ILE:HG13	2:S:63:ILE:HG23	1.79	0.64
1:B:345:THR:HB	1:B:491:ASP:HB3	1.78	0.64
1:B:776:LEU:O	1:B:776:LEU:HD23	1.96	0.64
1:C:501:LEU:CD2	2:Q:112:LEU:HD21	2.23	0.64
1:E:279:ILE:H	1:E:279:ILE:CD1	2.06	0.64
2:S:94:LYS:NZ	2:S:94:LYS:HB3	2.11	0.64
2:T:52:ILE:HG13	2:T:63:ILE:HG23	1.79	0.64
1:A:90:PRO:HG2	1:A:93:VAL:HB	1.78	0.64
1:C:109:ILE:CD1	1:C:157:LYS:NZ	2.61	0.64
1:C:694:VAL:HA	1:C:697:ILE:HD12	1.80	0.64
1:D:499:PRO:HG2	1:D:504:ILE:HD11	1.79	0.64
1:D:688:PHE:C	1:D:688:PHE:CD2	2.76	0.64
1:E:268:MET:O	1:E:271:LEU:HB2	1.97	0.64
1:E:405:LEU:H	1:E:405:LEU:HD12	1.63	0.64
1:F:345:THR:HB	1:F:491:ASP:HB3	1.79	0.64
1:B:275:GLY:HA2	1:B:278:LYS:CE	2.26	0.64
1:E:112:VAL:HG12	1:E:113:GLU:N	2.08	0.64
1:F:268:MET:O	1:F:271:LEU:HB2	1.97	0.64
1:F:462:ILE:HD11	1:F:466:GLY:HA2	1.78	0.64
2:S:51:MSE:HB2	2:S:71:MSE:HE2	1.80	0.64
1:C:197:LYS:C	1:C:197:LYS:HZ3	2.04	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:90:PRO:HG2	1:E:93:VAL:HB	1.78	0.64
1:E:674:SER:O	1:E:674:SER:OG	2.15	0.64
1:E:688:PHE:C	1:E:688:PHE:CD2	2.75	0.64
1:E:694:VAL:HA	1:E:697:ILE:HD12	1.78	0.64
1:C:499:PRO:HG2	1:C:504:ILE:HD11	1.80	0.64
1:F:148:GLU:HG3	1:F:149:THR:N	2.13	0.64
1:F:360:VAL:HG21	1:F:365:PRO:HB3	1.79	0.64
1:F:405:LEU:H	1:F:405:LEU:HD12	1.63	0.64
1:A:360:VAL:HG21	1:A:365:PRO:HB3	1.79	0.64
1:B:148:GLU:HG3	1:B:149:THR:N	2.13	0.64
1:B:688:PHE:C	1:B:688:PHE:CD2	2.75	0.64
1:E:385:LEU:O	1:E:385:LEU:HD13	1.97	0.64
2:R:51:MSE:HB2	2:R:71:MSE:HE2	1.79	0.64
1:E:360:VAL:HG21	1:E:365:PRO:HB3	1.79	0.63
2:P:5:THR:HG23	2:P:8:GLN:CB	2.26	0.63
2:T:13:LYS:HZ2	2:T:65:PHE:HB3	1.60	0.63
1:C:89:ILE:CG2	1:C:93:VAL:HG11	2.20	0.63
1:D:148:GLU:HG3	1:D:149:THR:N	2.13	0.63
1:E:504:ILE:H	1:E:504:ILE:HD12	1.63	0.63
1:E:718:ARG:HH11	1:E:767:GLN:HE21	1.44	0.63
1:F:372:LYS:HD2	1:F:373:LYS:HE2	1.80	0.63
2:O:13:LYS:HZ3	2:O:65:PHE:HB3	1.59	0.63
2:O:68:PHE:O	2:O:71:MSE:HB3	1.99	0.63
1:A:405:LEU:H	1:A:405:LEU:HD12	1.63	0.63
1:B:109:ILE:CD1	1:B:157:LYS:NZ	2.61	0.63
1:C:678:VAL:HG13	1:C:745:TYR:CD2	2.34	0.63
1:D:345:THR:HB	1:D:491:ASP:HB3	1.79	0.63
1:D:565:LYS:C	1:D:567:THR:H	2.04	0.63
1:D:769:SER:O	1:D:769:SER:OG	2.00	0.63
1:E:435:LEU:HG	1:E:446:ILE:HG22	1.81	0.63
2:P:52:ILE:HG13	2:P:63:ILE:HG23	1.79	0.63
2:P:102:ALA:HB1	2:P:121:VAL:HG12	1.80	0.63
1:A:109:ILE:CD1	1:A:157:LYS:NZ	2.61	0.63
1:A:268:MET:O	1:A:271:LEU:HB2	1.98	0.63
1:B:499:PRO:HG2	1:B:504:ILE:HD11	1.80	0.63
1:B:694:VAL:HA	1:B:697:ILE:HD12	1.80	0.63
1:C:307:LEU:HD12	1:C:331:VAL:HG21	1.81	0.63
1:C:565:LYS:C	1:C:567:THR:H	2.04	0.63
1:E:305:SER:HB2	1:E:594:PHE:CD1	2.34	0.63
1:E:372:LYS:HD2	1:E:373:LYS:HE2	1.80	0.63
1:E:499:PRO:HG2	1:E:504:ILE:HD11	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:279:ILE:H	1:C:279:ILE:CD1	2.06	0.63
1:D:268:MET:O	1:D:271:LEU:HB2	1.98	0.63
1:E:122:GLU:CG	1:E:147:ARG:HB2	2.26	0.63
1:E:148:GLU:HG3	1:E:149:THR:N	2.12	0.63
1:B:193:LEU:O	1:B:197:LYS:HB2	1.99	0.63
1:B:268:MET:O	1:B:271:LEU:HB2	1.97	0.63
1:C:372:LYS:HD2	1:C:373:LYS:HE2	1.79	0.63
1:D:109:ILE:CD1	1:D:157:LYS:NZ	2.62	0.63
1:F:504:ILE:HD12	1:F:504:ILE:H	1.64	0.63
2:Q:51:MSE:HB2	2:Q:71:MSE:HE2	1.80	0.63
1:A:372:LYS:HD2	1:A:373:LYS:HE2	1.79	0.63
1:A:688:PHE:C	1:A:688:PHE:CD2	2.75	0.63
1:B:107:THR:CG2	1:B:115:LYS:HD2	2.29	0.63
1:C:338:LEU:O	1:C:343:VAL:HG23	1.99	0.63
1:D:305:SER:HB2	1:D:594:PHE:CD1	2.34	0.63
1:D:461:LYS:HG3	1:D:462:ILE:H	1.64	0.63
1:F:435:LEU:HG	1:F:446:ILE:HG22	1.81	0.63
2:Q:18:LEU:HB3	2:Q:19:PHE:CD1	2.34	0.63
1:A:89:ILE:CG2	1:A:93:VAL:HG11	2.20	0.63
1:A:193:LEU:O	1:A:197:LYS:HB2	1.99	0.63
1:D:89:ILE:CG2	1:D:93:VAL:HG11	2.19	0.63
2:O:56:ASP:OD2	2:O:60:ASN:CA	2.47	0.63
2:P:73:ALA:O	2:P:76:MSE:N	2.32	0.63
2:T:56:ASP:OD2	2:T:60:ASN:CA	2.47	0.63
1:D:307:LEU:H	1:D:307:LEU:HD12	1.64	0.63
1:E:456:LYS:HD3	1:E:471:TRP:NE1	2.14	0.63
1:F:461:LYS:HG3	1:F:462:ILE:H	1.64	0.63
1:B:176:GLY:C	1:B:178:SER:N	2.57	0.62
1:B:344:ALA:HA	1:B:569:TYR:OH	1.99	0.62
1:B:504:ILE:H	1:B:504:ILE:HD12	1.65	0.62
1:B:533:LEU:O	1:B:533:LEU:HD23	1.99	0.62
1:C:461:LYS:HG3	1:C:462:ILE:H	1.64	0.62
1:D:435:LEU:HG	1:D:446:ILE:HG22	1.81	0.62
2:S:102:ALA:HB1	2:S:121:VAL:HG12	1.81	0.62
1:A:305:SER:HB2	1:A:594:PHE:CD1	2.34	0.62
1:D:122:GLU:CG	1:D:147:ARG:HB2	2.25	0.62
1:D:338:LEU:O	1:D:343:VAL:HG23	1.99	0.62
1:E:104:ILE:HG23	1:E:152:LEU:HD22	1.81	0.62
1:E:197:LYS:C	1:E:197:LYS:HZ3	2.06	0.62
2:P:51:MSE:HB2	2:P:71:MSE:HE2	1.80	0.62
1:A:197:LYS:C	1:A:197:LYS:HZ3	2.08	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:345:THR:HB	1:A:491:ASP:HB3	1.79	0.62
1:A:461:LYS:HG3	1:A:462:ILE:H	1.64	0.62
1:B:789:ASN:O	1:B:792:VAL:HB	1.99	0.62
1:D:360:VAL:HG21	1:D:365:PRO:HB3	1.79	0.62
1:F:122:GLU:HG3	1:F:147:ARG:CB	2.23	0.62
1:F:688:PHE:C	1:F:688:PHE:HD2	2.07	0.62
2:Q:52:ILE:HG13	2:Q:63:ILE:CG2	2.29	0.62
2:Q:68:PHE:O	2:Q:71:MSE:HB3	1.99	0.62
1:A:435:LEU:HG	1:A:446:ILE:HG22	1.81	0.62
1:A:456:LYS:HD3	1:A:471:TRP:NE1	2.14	0.62
1:A:504:ILE:H	1:A:504:ILE:HD12	1.64	0.62
1:B:435:LEU:HG	1:B:446:ILE:HG22	1.81	0.62
1:D:193:LEU:O	1:D:197:LYS:HB2	1.99	0.62
1:D:405:LEU:HD12	1:D:405:LEU:H	1.63	0.62
1:E:179:LEU:O	1:E:183:SER:CA	2.47	0.62
1:A:104:ILE:HG23	1:A:152:LEU:HD22	1.81	0.62
1:A:107:THR:CG2	1:A:115:LYS:HD2	2.29	0.62
1:A:307:LEU:H	1:A:307:LEU:HD12	1.64	0.62
1:B:104:ILE:HG23	1:B:152:LEU:HD22	1.82	0.62
1:D:678:VAL:HG13	1:D:745:TYR:CD2	2.35	0.62
1:E:109:ILE:CD1	1:E:157:LYS:NZ	2.63	0.62
1:E:193:LEU:O	1:E:197:LYS:HB2	1.98	0.62
1:F:109:ILE:CD1	1:F:157:LYS:NZ	2.61	0.62
1:F:748:TYR:O	1:F:751:TYR:N	2.32	0.62
2:R:102:ALA:HB1	2:R:121:VAL:HG12	1.80	0.62
2:T:68:PHE:O	2:T:71:MSE:HB3	2.00	0.62
1:A:164:GLU:O	1:A:167:LYS:HE3	2.00	0.62
1:A:678:VAL:HG13	1:A:745:TYR:CD2	2.34	0.62
1:A:789:ASN:O	1:A:792:VAL:HB	2.00	0.62
1:C:193:LEU:O	1:C:197:LYS:HB2	1.98	0.62
1:E:461:LYS:HG3	1:E:462:ILE:H	1.64	0.62
1:F:179:LEU:O	1:F:183:SER:CA	2.48	0.62
2:P:55:VAL:CG2	2:P:67:GLU:OE1	2.41	0.62
2:P:68:PHE:O	2:P:71:MSE:HB3	1.99	0.62
2:Q:102:ALA:HB1	2:Q:121:VAL:HG12	1.80	0.62
2:R:18:LEU:HB3	2:R:19:PHE:CD1	2.35	0.62
2:S:68:PHE:O	2:S:71:MSE:HB3	1.99	0.62
1:B:732:ILE:HG23	1:B:749:PHE:HD1	1.64	0.62
1:C:344:ALA:HA	1:C:569:TYR:OH	1.99	0.62
1:C:504:ILE:HD12	1:C:504:ILE:H	1.64	0.62
1:F:275:GLY:HA2	1:F:278:LYS:CE	2.26	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:8:GLN:O	2:R:12:PHE:HD2	1.81	0.62
1:A:480:ASN:HD21	1:A:483:GLY:N	1.98	0.62
1:A:732:ILE:HG23	1:A:749:PHE:HD1	1.65	0.62
1:B:115:LYS:HB3	1:B:115:LYS:NZ	2.14	0.62
1:B:154:ILE:HG13	1:B:171:TYR:HE1	1.61	0.62
1:C:115:LYS:NZ	1:C:115:LYS:HB3	2.14	0.62
1:D:732:ILE:HG23	1:D:749:PHE:HD1	1.64	0.62
1:F:107:THR:CG2	1:F:115:LYS:HD2	2.29	0.62
1:F:122:GLU:CG	1:F:147:ARG:HB2	2.25	0.62
1:F:344:ALA:HA	1:F:569:TYR:OH	1.99	0.62
1:F:732:ILE:HG23	1:F:749:PHE:HD1	1.65	0.62
2:O:102:ALA:HB1	2:O:121:VAL:HG12	1.81	0.62
2:P:117:THR:HG23	2:P:120:GLU:CB	2.30	0.62
1:B:637:PRO:O	1:B:640:LYS:HG3	2.00	0.62
1:C:104:ILE:HG23	1:C:152:LEU:HD22	1.81	0.62
1:E:344:ALA:HA	1:E:569:TYR:OH	2.00	0.62
1:F:89:ILE:CG2	1:F:93:VAL:HG11	2.20	0.62
1:F:176:GLY:C	1:F:178:SER:N	2.57	0.62
1:F:305:SER:HB2	1:F:594:PHE:CD1	2.35	0.62
1:F:789:ASN:O	1:F:792:VAL:HB	2.00	0.62
2:Q:73:ALA:O	2:Q:76:MSE:N	2.32	0.62
2:T:18:LEU:HB3	2:T:19:PHE:CD1	2.35	0.62
1:A:189:ASP:HB3	1:A:190:PRO:CD	2.30	0.62
1:A:443:GLU:OE2	1:A:458:LYS:HG2	2.00	0.62
1:A:748:TYR:O	1:A:751:TYR:N	2.32	0.62
1:B:137:PHE:HD2	1:B:137:PHE:C	2.08	0.62
1:B:724:ARG:HH11	1:B:724:ARG:HG3	1.64	0.62
1:C:305:SER:HB2	1:C:594:PHE:CD1	2.34	0.62
1:E:137:PHE:HD2	1:E:137:PHE:C	2.08	0.62
1:E:175:LYS:HB2	1:E:175:LYS:HZ2	1.65	0.62
1:E:307:LEU:HD12	1:E:331:VAL:HG21	1.82	0.62
1:F:307:LEU:H	1:F:307:LEU:HD12	1.65	0.62
1:A:724:ARG:HG3	1:A:724:ARG:HH11	1.65	0.61
1:C:189:ASP:HB3	1:C:190:PRO:CD	2.30	0.61
1:C:456:LYS:HD3	1:C:471:TRP:NE1	2.15	0.61
1:D:718:ARG:NH1	1:D:767:GLN:HE21	1.98	0.61
1:E:115:LYS:NZ	1:E:115:LYS:HB3	2.15	0.61
1:E:176:GLY:C	1:E:178:SER:N	2.57	0.61
1:E:307:LEU:HD12	1:E:307:LEU:H	1.64	0.61
1:F:307:LEU:HD12	1:F:331:VAL:HG21	1.82	0.61
2:S:13:LYS:HZ2	2:S:65:PHE:HB3	1.59	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:102:ALA:HB1	2:T:121:VAL:HG12	1.82	0.61
1:A:122:GLU:CG	1:A:147:ARG:HB2	2.26	0.61
1:C:109:ILE:CD1	1:C:157:LYS:HZ2	2.13	0.61
1:C:137:PHE:HD2	1:C:137:PHE:C	2.08	0.61
1:C:279:ILE:O	1:C:283:LEU:HB2	2.01	0.61
1:D:115:LYS:NZ	1:D:115:LYS:HB3	2.14	0.61
1:D:307:LEU:HD12	1:D:331:VAL:HG21	1.83	0.61
1:E:688:PHE:C	1:E:688:PHE:HD2	2.08	0.61
1:F:678:VAL:HG13	1:F:745:TYR:CD2	2.35	0.61
1:F:722:ILE:HG23	1:F:760:VAL:CG1	2.28	0.61
2:O:73:ALA:O	2:O:76:MSE:N	2.33	0.61
2:P:55:VAL:HG21	2:P:67:GLU:CD	2.24	0.61
2:R:68:PHE:O	2:R:71:MSE:HB3	2.00	0.61
2:T:52:ILE:HG13	2:T:63:ILE:CG2	2.30	0.61
1:A:412:GLU:HG2	1:A:413:LEU:HD23	1.82	0.61
1:B:480:ASN:HD21	1:B:483:GLY:N	1.98	0.61
1:B:688:PHE:C	1:B:688:PHE:HD2	2.08	0.61
1:D:344:ALA:HA	1:D:569:TYR:OH	2.00	0.61
1:D:443:GLU:OE2	1:D:458:LYS:HG2	2.01	0.61
1:D:724:ARG:HG3	1:D:724:ARG:HH11	1.65	0.61
1:E:197:LYS:HZ2	1:E:197:LYS:HB3	1.65	0.61
1:F:193:LEU:O	1:F:197:LYS:HB2	1.99	0.61
1:F:338:LEU:O	1:F:343:VAL:HG23	1.99	0.61
1:F:748:TYR:O	1:F:751:TYR:HB3	2.01	0.61
2:R:52:ILE:HG13	2:R:63:ILE:CG2	2.30	0.61
1:A:722:ILE:HG23	1:A:760:VAL:CG1	2.28	0.61
1:B:182:ILE:O	1:B:187:SER:CB	2.48	0.61
1:B:307:LEU:HD12	1:B:307:LEU:H	1.65	0.61
1:C:179:LEU:O	1:C:183:SER:CA	2.48	0.61
1:C:217:LYS:CB	1:C:236:GLU:HG3	2.31	0.61
1:C:252:ASP:CG	1:C:253:HIS:H	2.09	0.61
1:C:296:LEU:H	1:C:296:LEU:CD2	1.90	0.61
1:E:182:ILE:O	1:E:187:SER:CB	2.49	0.61
1:F:137:PHE:HD2	1:F:137:PHE:C	2.07	0.61
1:F:456:LYS:HD3	1:F:471:TRP:NE1	2.14	0.61
2:O:18:LEU:HB3	2:O:19:PHE:CD1	2.35	0.61
1:A:688:PHE:C	1:A:688:PHE:HD2	2.08	0.61
1:B:412:GLU:HG2	1:B:413:LEU:HD23	1.82	0.61
1:D:137:PHE:HD2	1:D:137:PHE:C	2.08	0.61
1:E:338:LEU:O	1:E:343:VAL:HG23	2.00	0.61
1:E:637:PRO:O	1:E:640:LYS:HG3	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:188:LEU:N	1:F:188:LEU:CD2	2.63	0.61
1:F:480:ASN:HD21	1:F:483:GLY:N	1.99	0.61
2:P:52:ILE:HG13	2:P:63:ILE:CG2	2.30	0.61
2:Q:8:GLN:O	2:Q:12:PHE:HD2	1.83	0.61
2:Q:121:VAL:C	2:Q:123:GLN:N	2.57	0.61
1:A:533:LEU:HD23	1:A:533:LEU:O	2.00	0.61
1:B:122:GLU:H	1:B:122:GLU:CD	2.09	0.61
1:B:305:SER:HB2	1:B:594:PHE:CD1	2.36	0.61
1:C:412:GLU:HG2	1:C:413:LEU:HD23	1.82	0.61
1:C:480:ASN:HD21	1:C:483:GLY:N	1.99	0.61
1:C:718:ARG:NH1	1:C:767:GLN:HE21	1.99	0.61
1:C:724:ARG:HH11	1:C:724:ARG:HG3	1.64	0.61
1:D:104:ILE:HG23	1:D:152:LEU:HD22	1.82	0.61
1:D:189:ASP:HB3	1:D:190:PRO:CD	2.30	0.61
1:E:678:VAL:HG13	1:E:745:TYR:CD2	2.36	0.61
1:E:732:ILE:HG23	1:E:749:PHE:HD1	1.65	0.61
2:S:52:ILE:HG13	2:S:63:ILE:CG2	2.29	0.61
1:A:137:PHE:HD2	1:A:137:PHE:C	2.08	0.61
1:A:637:PRO:O	1:A:640:LYS:HG3	2.01	0.61
1:B:461:LYS:HG3	1:B:462:ILE:H	1.65	0.61
1:C:688:PHE:C	1:C:688:PHE:HD2	2.08	0.61
1:C:789:ASN:O	1:C:792:VAL:HB	2.01	0.61
1:E:609:GLU:OE2	1:E:609:GLU:N	2.27	0.61
1:E:789:ASN:O	1:E:792:VAL:HB	2.00	0.61
1:F:718:ARG:NH1	1:F:767:GLN:HE21	1.98	0.61
2:T:28:THR:HG21	2:T:30:LYS:HZ1	1.64	0.61
1:A:344:ALA:HA	1:A:569:TYR:OH	2.01	0.61
1:B:279:ILE:O	1:B:283:LEU:HB2	2.01	0.61
1:C:307:LEU:HD12	1:C:307:LEU:H	1.64	0.61
1:C:637:PRO:O	1:C:640:LYS:HG3	2.00	0.61
1:C:732:ILE:HG23	1:C:749:PHE:HD1	1.65	0.61
1:E:412:GLU:HG2	1:E:413:LEU:HD23	1.82	0.61
1:E:443:GLU:OE2	1:E:458:LYS:HG2	2.01	0.61
1:F:182:ILE:O	1:F:187:SER:CB	2.49	0.61
1:F:189:ASP:HB3	1:F:190:PRO:CD	2.30	0.61
1:F:478:ALA:HA	1:F:488:LEU:HG	1.83	0.61
2:P:50:ASP:O	2:P:54:GLU:HB2	2.01	0.61
2:S:50:ASP:O	2:S:54:GLU:HB2	2.01	0.61
1:A:307:LEU:HD12	1:A:331:VAL:HG21	1.82	0.61
1:B:678:VAL:HG13	1:B:745:TYR:CD2	2.36	0.61
1:C:182:ILE:O	1:C:187:SER:CB	2.49	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:435:LEU:HG	1:C:446:ILE:HG22	1.81	0.61
1:C:443:GLU:OE2	1:C:458:LYS:HG2	2.01	0.61
1:C:478:ALA:HA	1:C:488:LEU:HG	1.83	0.61
1:D:353:LYS:N	1:D:368:GLN:HE22	1.95	0.61
1:E:137:PHE:C	1:E:137:PHE:CD2	2.79	0.61
1:E:164:GLU:O	1:E:167:LYS:HE3	2.01	0.61
1:F:408:LEU:H	1:F:408:LEU:CD1	1.95	0.61
2:P:8:GLN:O	2:P:12:PHE:HD2	1.83	0.61
1:A:736:LEU:HD21	1:A:750:GLN:HE22	1.66	0.61
1:D:456:LYS:HD3	1:D:471:TRP:NE1	2.16	0.61
1:F:112:VAL:HG12	1:F:113:GLU:N	2.09	0.61
1:A:115:LYS:NZ	1:A:115:LYS:HB3	2.15	0.60
1:B:179:LEU:O	1:B:183:SER:CA	2.48	0.60
1:B:515:LYS:HZ2	1:B:515:LYS:HB3	1.65	0.60
1:C:736:LEU:HD21	1:C:750:GLN:HE22	1.66	0.60
1:D:480:ASN:HD21	1:D:483:GLY:N	1.99	0.60
1:D:504:ILE:H	1:D:504:ILE:HD12	1.64	0.60
1:D:533:LEU:HD23	1:D:533:LEU:O	2.01	0.60
1:F:279:ILE:O	1:F:283:LEU:HB2	2.01	0.60
2:O:8:GLN:O	2:O:12:PHE:HD2	1.83	0.60
2:O:117:THR:HG23	2:O:120:GLU:CB	2.30	0.60
2:S:8:GLN:O	2:S:12:PHE:HD2	1.82	0.60
2:S:55:VAL:CG2	2:S:67:GLU:OE1	2.43	0.60
1:A:79:ILE:C	1:A:81:GLN:N	2.57	0.60
1:A:279:ILE:O	1:A:283:LEU:HB2	2.01	0.60
1:A:338:LEU:O	1:A:343:VAL:HG23	2.01	0.60
1:D:182:ILE:O	1:D:187:SER:CB	2.49	0.60
1:D:252:ASP:CG	1:D:253:HIS:H	2.09	0.60
1:E:189:ASP:HB3	1:E:190:PRO:CD	2.31	0.60
1:E:252:ASP:CG	1:E:253:HIS:H	2.09	0.60
1:F:78:LYS:O	1:F:81:GLN:HB3	2.00	0.60
1:F:104:ILE:HG23	1:F:152:LEU:HD22	1.82	0.60
1:F:684:ASP:C	1:F:686:ASP:H	2.10	0.60
2:O:52:ILE:HG13	2:O:63:ILE:CG2	2.30	0.60
2:P:18:LEU:HB3	2:P:19:PHE:CD1	2.35	0.60
2:Q:28:THR:CB	2:Q:30:LYS:HZ3	2.10	0.60
2:R:66:PRO:O	2:R:68:PHE:N	2.34	0.60
1:A:639:ASN:H	1:A:639:ASN:HD22	1.48	0.60
1:B:115:LYS:HB3	1:B:115:LYS:HZ3	1.66	0.60
1:B:189:ASP:HB3	1:B:190:PRO:CD	2.31	0.60
1:B:338:LEU:O	1:B:343:VAL:HG23	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:107:THR:CG2	1:C:115:LYS:HD2	2.29	0.60
1:C:196:ILE:O	1:C:199:LEU:HB2	2.02	0.60
1:D:789:ASN:O	1:D:792:VAL:HB	2.00	0.60
1:E:179:LEU:O	1:E:183:SER:N	2.34	0.60
1:E:684:ASP:C	1:E:686:ASP:H	2.09	0.60
1:F:443:GLU:OE2	1:F:458:LYS:HG2	2.00	0.60
2:Q:50:ASP:O	2:Q:54:GLU:HB2	2.01	0.60
2:R:73:ALA:O	2:R:76:MSE:N	2.33	0.60
1:A:179:LEU:O	1:A:183:SER:CA	2.48	0.60
1:B:252:ASP:CG	1:B:253:HIS:H	2.10	0.60
1:C:122:GLU:CG	1:C:147:ARG:HB2	2.26	0.60
1:C:188:LEU:N	1:C:188:LEU:CD2	2.62	0.60
1:C:343:VAL:HG13	1:C:487:PRO:HG2	1.83	0.60
1:D:78:LYS:O	1:D:81:GLN:HB3	2.01	0.60
1:D:637:PRO:O	1:D:640:LYS:HG3	2.01	0.60
1:D:688:PHE:C	1:D:688:PHE:HD2	2.09	0.60
1:E:196:ILE:O	1:E:199:LEU:HB2	2.01	0.60
1:E:279:ILE:O	1:E:283:LEU:HB2	2.01	0.60
1:F:137:PHE:C	1:F:137:PHE:CD2	2.79	0.60
1:F:217:LYS:CB	1:F:236:GLU:HG3	2.32	0.60
2:Q:66:PRO:O	2:Q:68:PHE:N	2.34	0.60
2:R:8:GLN:O	2:R:12:PHE:CD2	2.54	0.60
2:R:50:ASP:O	2:R:54:GLU:HB2	2.02	0.60
2:R:55:VAL:HG21	2:R:67:GLU:CD	2.27	0.60
1:A:515:LYS:NZ	1:A:515:LYS:HB3	2.17	0.60
1:B:587:PRO:HB2	1:B:643:ILE:HD12	1.84	0.60
1:B:718:ARG:NH1	1:B:767:GLN:HE21	2.00	0.60
1:E:353:LYS:N	1:E:368:GLN:HE22	1.94	0.60
1:E:639:ASN:HD22	1:E:639:ASN:N	1.99	0.60
1:E:748:TYR:O	1:E:751:TYR:N	2.35	0.60
2:Q:117:THR:HG23	2:Q:120:GLU:CB	2.31	0.60
1:A:718:ARG:NH1	1:A:767:GLN:HE21	1.99	0.60
1:C:122:GLU:CD	1:C:122:GLU:H	2.09	0.60
1:C:736:LEU:HD21	1:C:750:GLN:NE2	2.17	0.60
1:D:279:ILE:O	1:D:283:LEU:HB2	2.01	0.60
1:E:480:ASN:HD21	1:E:483:GLY:N	2.00	0.60
1:E:567:THR:CG2	1:E:568:GLY:N	2.65	0.60
1:E:718:ARG:NH1	1:E:767:GLN:HE21	1.99	0.60
1:E:724:ARG:HH11	1:E:724:ARG:HG3	1.65	0.60
1:F:637:PRO:O	1:F:640:LYS:HG3	2.01	0.60
2:O:55:VAL:HG21	2:O:67:GLU:CD	2.27	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:8:GLN:O	2:S:12:PHE:CD2	2.55	0.60
2:T:56:ASP:HB3	2:T:60:ASN:OD1	2.02	0.60
2:T:66:PRO:O	2:T:68:PHE:N	2.35	0.60
1:A:195:LEU:HD11	1:A:226:ASP:O	2.01	0.60
1:A:252:ASP:CG	1:A:253:HIS:H	2.09	0.60
1:B:195:LEU:HD11	1:B:226:ASP:O	2.02	0.60
1:B:217:LYS:CB	1:B:236:GLU:HG3	2.31	0.60
1:B:307:LEU:HD12	1:B:331:VAL:HG21	1.84	0.60
1:C:197:LYS:HZ2	1:C:197:LYS:HB3	1.66	0.60
1:D:176:GLY:C	1:D:178:SER:N	2.57	0.60
1:D:179:LEU:O	1:D:183:SER:CA	2.48	0.60
1:E:78:LYS:O	1:E:81:GLN:HB3	2.01	0.60
1:E:748:TYR:O	1:E:751:TYR:HB3	2.01	0.60
1:F:602:PHE:C	1:F:603:ILE:HG13	2.27	0.60
2:P:66:PRO:O	2:P:68:PHE:N	2.34	0.60
2:S:18:LEU:HB3	2:S:19:PHE:CD1	2.36	0.60
1:B:353:LYS:N	1:B:368:GLN:HE22	1.95	0.60
1:C:639:ASN:H	1:C:639:ASN:HD22	1.48	0.60
1:D:736:LEU:HD21	1:D:750:GLN:HE22	1.67	0.60
1:E:122:GLU:H	1:E:122:GLU:CD	2.09	0.60
2:O:66:PRO:O	2:O:68:PHE:N	2.35	0.60
2:S:55:VAL:HG21	2:S:67:GLU:CD	2.26	0.60
2:T:117:THR:HG21	2:T:120:GLU:OE2	2.02	0.60
1:A:182:ILE:O	1:A:187:SER:CB	2.49	0.60
1:A:196:ILE:O	1:A:199:LEU:HB2	2.02	0.60
1:A:630:ARG:HH11	1:A:630:ARG:HG3	1.66	0.60
1:A:729:TYR:HB2	1:A:756:ILE:HG21	1.84	0.60
1:B:179:LEU:O	1:B:183:SER:N	2.35	0.60
1:B:196:ILE:O	1:B:199:LEU:HB2	2.02	0.60
1:C:587:PRO:HB2	1:C:643:ILE:HD12	1.84	0.60
1:C:748:TYR:O	1:C:751:TYR:N	2.33	0.60
1:D:217:LYS:CB	1:D:236:GLU:HG3	2.32	0.60
1:F:122:GLU:CD	1:F:122:GLU:H	2.09	0.60
1:F:164:GLU:O	1:F:167:LYS:HE3	2.01	0.60
1:F:252:ASP:CG	1:F:253:HIS:H	2.10	0.60
2:T:8:GLN:O	2:T:12:PHE:HD2	1.83	0.60
1:A:112:VAL:HG12	1:A:113:GLU:N	2.09	0.60
1:A:179:LEU:O	1:A:183:SER:N	2.35	0.60
1:D:137:PHE:C	1:D:137:PHE:CD2	2.80	0.60
1:D:639:ASN:HD22	1:D:639:ASN:N	2.00	0.60
1:E:217:LYS:CB	1:E:236:GLU:HG3	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:97:TYR:CE1	1:F:178:SER:HB2	2.37	0.60
1:B:456:LYS:HD3	1:B:471:TRP:NE1	2.16	0.59
1:B:567:THR:CG2	1:B:568:GLY:N	2.65	0.59
1:C:515:LYS:HB3	1:C:515:LYS:NZ	2.16	0.59
1:C:748:TYR:O	1:C:751:TYR:HB3	2.01	0.59
1:D:674:SER:O	1:D:674:SER:OG	2.15	0.59
1:F:412:GLU:HG2	1:F:413:LEU:HD23	1.83	0.59
2:T:121:VAL:C	2:T:123:GLN:N	2.58	0.59
1:A:353:LYS:N	1:A:368:GLN:HE22	1.96	0.59
1:A:748:TYR:O	1:A:751:TYR:HB3	2.02	0.59
1:B:164:GLU:O	1:B:167:LYS:HE3	2.01	0.59
1:B:379:ALA:O	1:B:383:GLY:N	2.36	0.59
1:B:748:TYR:O	1:B:751:TYR:N	2.35	0.59
1:C:379:ALA:O	1:C:383:GLY:N	2.35	0.59
1:D:107:THR:CG2	1:D:115:LYS:HD2	2.30	0.59
1:D:377:GLN:O	1:D:381:GLU:HB2	2.02	0.59
1:D:412:GLU:HG2	1:D:413:LEU:HD23	1.82	0.59
1:D:516:VAL:HG21	1:D:532:LEU:CD1	2.32	0.59
1:E:196:ILE:HA	1:E:199:LEU:HD12	1.82	0.59
1:E:533:LEU:O	1:E:533:LEU:HD23	2.03	0.59
1:F:115:LYS:NZ	1:F:115:LYS:HB3	2.16	0.59
1:F:195:LEU:HD11	1:F:226:ASP:O	2.01	0.59
1:F:515:LYS:NZ	1:F:515:LYS:HB3	2.17	0.59
1:F:567:THR:CG2	1:F:568:GLY:N	2.65	0.59
2:O:43:PRO:CG	2:O:48:LEU:HD13	2.32	0.59
2:R:59:GLY:O	2:R:62:THR:HG23	2.00	0.59
2:S:66:PRO:O	2:S:68:PHE:N	2.35	0.59
1:B:78:LYS:O	1:B:81:GLN:HB3	2.02	0.59
1:B:97:TYR:CE1	1:B:178:SER:HB2	2.37	0.59
1:B:478:ALA:HA	1:B:488:LEU:HG	1.83	0.59
1:B:602:PHE:C	1:B:603:ILE:HG13	2.28	0.59
1:C:112:VAL:HG12	1:C:113:GLU:N	2.09	0.59
1:C:195:LEU:HD11	1:C:226:ASP:O	2.02	0.59
1:C:353:LYS:N	1:C:368:GLN:HE22	1.96	0.59
2:P:8:GLN:O	2:P:12:PHE:CD2	2.55	0.59
2:R:117:THR:HG23	2:R:120:GLU:CB	2.32	0.59
2:T:8:GLN:O	2:T:12:PHE:CD2	2.55	0.59
2:T:73:ALA:O	2:T:76:MSE:N	2.32	0.59
1:A:122:GLU:CD	1:A:122:GLU:H	2.09	0.59
1:A:602:PHE:C	1:A:603:ILE:HG13	2.28	0.59
1:C:164:GLU:O	1:C:167:LYS:HE3	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:567:THR:CG2	1:C:568:GLY:N	2.65	0.59
1:D:478:ALA:HA	1:D:488:LEU:HG	1.84	0.59
1:E:478:ALA:HA	1:E:488:LEU:HG	1.84	0.59
1:F:379:ALA:O	1:F:383:GLY:N	2.35	0.59
2:Q:117:THR:HG21	2:Q:120:GLU:OE2	2.03	0.59
2:R:117:THR:HG21	2:R:120:GLU:OE2	2.03	0.59
2:T:50:ASP:O	2:T:54:GLU:HB2	2.01	0.59
1:A:137:PHE:C	1:A:137:PHE:CD2	2.79	0.59
1:A:154:ILE:HG13	1:A:171:TYR:HE1	1.62	0.59
1:A:515:LYS:HB3	1:A:515:LYS:HZ2	1.66	0.59
1:B:443:GLU:OE2	1:B:458:LYS:HG2	2.02	0.59
1:B:515:LYS:HB3	1:B:515:LYS:NZ	2.18	0.59
1:C:179:LEU:O	1:C:183:SER:N	2.36	0.59
1:C:711:ILE:HG13	1:C:712:PHE:CD2	2.38	0.59
1:D:97:TYR:CE1	1:D:178:SER:HB2	2.37	0.59
2:O:97:ASN:HD22	2:O:97:ASN:N	2.01	0.59
2:P:121:VAL:C	2:P:123:GLN:N	2.57	0.59
1:A:78:LYS:O	1:A:81:GLN:HB3	2.01	0.59
1:A:176:GLY:C	1:A:178:SER:N	2.57	0.59
1:A:305:SER:HG	1:A:307:LEU:HD13	1.67	0.59
1:C:137:PHE:C	1:C:137:PHE:CD2	2.79	0.59
1:C:684:ASP:C	1:C:686:ASP:H	2.10	0.59
1:D:196:ILE:O	1:D:199:LEU:HB2	2.02	0.59
1:E:736:LEU:HD21	1:E:750:GLN:HE22	1.67	0.59
1:F:343:VAL:HG13	1:F:487:PRO:HG2	1.85	0.59
2:O:121:VAL:C	2:O:123:GLN:N	2.58	0.59
2:R:121:VAL:C	2:R:123:GLN:N	2.57	0.59
2:S:121:VAL:C	2:S:123:GLN:N	2.57	0.59
2:T:13:LYS:HZ1	2:T:65:PHE:HB3	1.66	0.59
1:A:217:LYS:CB	1:A:236:GLU:HG3	2.32	0.59
1:D:122:GLU:CD	1:D:122:GLU:H	2.09	0.59
1:F:196:ILE:O	1:F:199:LEU:HB2	2.02	0.59
2:Q:8:GLN:O	2:Q:12:PHE:CD2	2.56	0.59
1:B:343:VAL:HG13	1:B:487:PRO:HG2	1.83	0.59
1:D:748:TYR:O	1:D:751:TYR:N	2.35	0.59
1:E:379:ALA:O	1:E:383:GLY:N	2.36	0.59
1:E:515:LYS:HB3	1:E:515:LYS:NZ	2.17	0.59
1:F:196:ILE:HA	1:F:199:LEU:HD12	1.84	0.59
2:P:43:PRO:CG	2:P:48:LEU:HD13	2.33	0.59
2:Q:56:ASP:HB3	2:Q:60:ASN:OD1	2.02	0.59
2:T:55:VAL:HG21	2:T:67:GLU:CD	2.27	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:97:TYR:CE1	1:A:178:SER:HB2	2.38	0.59
1:A:243:LEU:HA	1:A:246:SER:OG	2.03	0.59
1:C:78:LYS:O	1:C:81:GLN:HB3	2.02	0.59
1:C:92:ASP:O	1:C:96:ILE:HG13	2.03	0.59
1:C:639:ASN:HD22	1:C:639:ASN:N	1.99	0.59
1:D:164:GLU:O	1:D:167:LYS:HE3	2.01	0.59
1:D:179:LEU:O	1:D:183:SER:N	2.36	0.59
1:E:195:LEU:HD11	1:E:226:ASP:O	2.02	0.59
1:F:639:ASN:H	1:F:639:ASN:HD22	1.49	0.59
2:Q:43:PRO:CG	2:Q:48:LEU:HD13	2.33	0.59
2:R:43:PRO:CG	2:R:48:LEU:HD13	2.32	0.59
2:S:117:THR:HG21	2:S:120:GLU:OE2	2.02	0.59
2:T:117:THR:HG23	2:T:120:GLU:CB	2.31	0.59
1:A:377:GLN:O	1:A:381:GLU:HB2	2.03	0.59
1:B:79:ILE:C	1:B:81:GLN:N	2.56	0.59
1:B:92:ASP:O	1:B:96:ILE:HG13	2.03	0.59
1:B:700:TYR:HD1	1:B:728:ALA:HA	1.68	0.59
1:C:131:ARG:HG3	1:C:243:LEU:CD2	2.33	0.59
1:C:176:GLY:C	1:C:178:SER:N	2.58	0.59
1:C:602:PHE:C	1:C:603:ILE:HG13	2.28	0.59
1:E:700:TYR:HD1	1:E:728:ALA:HA	1.67	0.59
1:F:353:LYS:N	1:F:368:GLN:HE22	1.96	0.59
1:F:501:LEU:HD22	2:T:112:LEU:CD2	2.27	0.59
1:A:478:ALA:HA	1:A:488:LEU:HG	1.84	0.58
1:A:587:PRO:HB2	1:A:643:ILE:HD12	1.85	0.58
1:B:88:LYS:NZ	1:B:172:GLU:OE2	2.36	0.58
1:B:243:LEU:HA	1:B:246:SER:OG	2.03	0.58
1:B:639:ASN:HD22	1:B:639:ASN:N	2.00	0.58
1:B:748:TYR:O	1:B:751:TYR:HB3	2.02	0.58
1:B:776:LEU:O	1:B:780:LEU:HD13	2.03	0.58
1:C:307:LEU:HD12	1:C:331:VAL:CG2	2.33	0.58
1:C:674:SER:O	1:C:674:SER:OG	2.14	0.58
1:D:515:LYS:HB3	1:D:515:LYS:NZ	2.18	0.58
1:D:602:PHE:C	1:D:603:ILE:HG13	2.28	0.58
1:D:722:ILE:HG23	1:D:760:VAL:CG1	2.30	0.58
2:O:55:VAL:CG2	2:O:67:GLU:OE1	2.44	0.58
2:T:51:MSE:HB3	2:T:71:MSE:HE2	1.85	0.58
1:A:711:ILE:HG13	1:A:712:PHE:CD2	2.39	0.58
1:F:179:LEU:O	1:F:183:SER:N	2.35	0.58
1:F:377:GLN:O	1:F:381:GLU:HB2	2.03	0.58
1:F:630:ARG:HH11	1:F:630:ARG:HG3	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:100:ILE:HB	2:O:136:VAL:HG22	1.85	0.58
2:P:117:THR:HG21	2:P:120:GLU:OE2	2.03	0.58
1:B:480:ASN:ND2	1:B:481:VAL:N	2.51	0.58
1:D:154:ILE:HG13	1:D:171:TYR:HE1	1.62	0.58
1:D:379:ALA:O	1:D:383:GLY:N	2.35	0.58
1:D:700:TYR:HD1	1:D:728:ALA:HA	1.68	0.58
1:F:711:ILE:HG13	1:F:712:PHE:CD2	2.38	0.58
2:O:117:THR:HG21	2:O:120:GLU:OE2	2.03	0.58
2:S:43:PRO:CG	2:S:48:LEU:HD13	2.33	0.58
1:B:711:ILE:HG13	1:B:712:PHE:CD2	2.39	0.58
1:D:196:ILE:HA	1:D:199:LEU:HD12	1.85	0.58
1:E:729:TYR:HB2	1:E:756:ILE:HG21	1.85	0.58
1:F:533:LEU:HD23	1:F:533:LEU:O	2.04	0.58
1:F:639:ASN:HD22	1:F:639:ASN:N	2.00	0.58
1:F:736:LEU:HD21	1:F:750:GLN:HE22	1.68	0.58
2:O:8:GLN:O	2:O:12:PHE:CD2	2.56	0.58
2:Q:55:VAL:HG21	2:Q:67:GLU:CD	2.26	0.58
2:R:49:GLN:NE2	2:R:49:GLN:N	2.51	0.58
1:A:196:ILE:HA	1:A:199:LEU:HD12	1.85	0.58
1:A:700:TYR:HD1	1:A:728:ALA:HA	1.69	0.58
1:B:639:ASN:H	1:B:639:ASN:HD22	1.49	0.58
1:B:736:LEU:HD21	1:B:750:GLN:HE22	1.69	0.58
1:C:533:LEU:HD23	1:C:533:LEU:O	2.03	0.58
1:C:700:TYR:HD1	1:C:728:ALA:HA	1.67	0.58
1:D:711:ILE:HG13	1:D:712:PHE:CD2	2.39	0.58
1:D:736:LEU:HD21	1:D:750:GLN:NE2	2.18	0.58
1:E:307:LEU:HD12	1:E:331:VAL:CG2	2.33	0.58
1:F:736:LEU:HD21	1:F:750:GLN:NE2	2.19	0.58
1:A:446:ILE:HG13	1:A:452:GLU:O	2.04	0.58
1:A:736:LEU:HD21	1:A:750:GLN:NE2	2.17	0.58
1:D:92:ASP:O	1:D:96:ILE:HG13	2.04	0.58
1:D:243:LEU:HA	1:D:246:SER:OG	2.03	0.58
1:D:748:TYR:O	1:D:751:TYR:HB3	2.03	0.58
1:D:776:LEU:O	1:D:780:LEU:HD13	2.04	0.58
1:E:88:LYS:NZ	1:E:172:GLU:OE2	2.37	0.58
1:E:97:TYR:CE1	1:E:178:SER:HB2	2.38	0.58
1:E:301:ALA:O	1:E:303:LYS:N	2.37	0.58
1:F:88:LYS:NZ	1:F:172:GLU:OE2	2.37	0.58
1:F:243:LEU:HA	1:F:246:SER:OG	2.04	0.58
2:T:49:GLN:NE2	2:T:49:GLN:N	2.52	0.58
2:T:52:ILE:HG23	2:T:53:ASN:N	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:88:LYS:NZ	1:A:172:GLU:OE2	2.37	0.58
1:A:674:SER:O	1:A:674:SER:OG	2.15	0.58
1:B:684:ASP:C	1:B:686:ASP:H	2.10	0.58
1:D:88:LYS:NZ	1:D:172:GLU:OE2	2.37	0.58
1:D:97:TYR:HE1	1:D:178:SER:HB2	1.69	0.58
1:D:195:LEU:HD11	1:D:226:ASP:O	2.03	0.58
1:E:131:ARG:HG3	1:E:243:LEU:CD2	2.32	0.58
1:F:175:LYS:O	1:F:177:ILE:N	2.36	0.58
1:F:724:ARG:HH11	1:F:724:ARG:HG3	1.67	0.58
2:P:56:ASP:OD2	2:P:60:ASN:CA	2.51	0.58
2:Q:52:ILE:HG23	2:Q:53:ASN:N	2.19	0.58
1:B:137:PHE:C	1:B:137:PHE:CD2	2.79	0.58
1:B:729:TYR:HB2	1:B:756:ILE:HG21	1.84	0.58
1:C:196:ILE:HA	1:C:199:LEU:HD12	1.84	0.58
1:D:372:LYS:HG3	1:D:373:LYS:N	2.19	0.58
1:E:602:PHE:C	1:E:603:ILE:HG13	2.27	0.58
2:Q:49:GLN:NE2	2:Q:49:GLN:N	2.52	0.58
2:T:41:GLN:O	2:T:42:ASN:HB3	2.04	0.58
2:T:43:PRO:CG	2:T:48:LEU:HD13	2.33	0.58
1:A:188:LEU:N	1:A:188:LEU:CD2	2.63	0.58
1:A:567:THR:CG2	1:A:568:GLY:N	2.66	0.58
1:B:175:LYS:O	1:B:177:ILE:N	2.36	0.58
1:B:196:ILE:HA	1:B:199:LEU:HD12	1.85	0.58
1:C:243:LEU:HA	1:C:246:SER:OG	2.03	0.58
1:C:377:GLN:O	1:C:381:GLU:HB2	2.04	0.58
1:D:587:PRO:HB2	1:D:643:ILE:HD12	1.85	0.58
1:E:107:THR:CG2	1:E:115:LYS:HD2	2.31	0.58
1:E:515:LYS:HZ3	1:E:516:VAL:HG23	1.69	0.58
1:F:97:TYR:HE1	1:F:178:SER:HB2	1.69	0.58
1:B:97:TYR:HE1	1:B:178:SER:HB2	1.68	0.58
1:B:722:ILE:HG23	1:B:760:VAL:CG1	2.29	0.58
1:C:154:ILE:HG13	1:C:171:TYR:HE1	1.62	0.58
1:C:175:LYS:O	1:C:177:ILE:N	2.37	0.58
1:C:776:LEU:O	1:C:780:LEU:HD13	2.03	0.58
1:D:630:ARG:HH11	1:D:630:ARG:HG3	1.68	0.58
1:D:657:ILE:HD11	1:D:701:LEU:HD23	1.86	0.58
1:D:729:TYR:HB2	1:D:756:ILE:HG21	1.86	0.58
1:E:175:LYS:O	1:E:177:ILE:N	2.37	0.58
1:E:279:ILE:C	1:E:281:GLU:H	2.12	0.58
1:F:729:TYR:HB2	1:F:756:ILE:HG21	1.84	0.58
2:O:56:ASP:OD2	2:O:61:GLY:N	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:56:ASP:OD2	2:O:60:ASN:C	2.46	0.58
2:Q:97:ASN:HD22	2:Q:97:ASN:N	2.01	0.58
1:A:307:LEU:HD12	1:A:331:VAL:CG2	2.34	0.57
1:A:684:ASP:C	1:A:686:ASP:H	2.10	0.57
1:C:697:ILE:CD1	1:C:732:ILE:HD13	2.34	0.57
1:D:301:ALA:C	1:D:303:LYS:N	2.62	0.57
1:D:446:ILE:HG13	1:D:452:GLU:O	2.04	0.57
1:E:508:ILE:HG23	1:E:536:TYR:CD2	2.39	0.57
1:F:480:ASN:HD22	1:F:481:VAL:H	1.52	0.57
1:F:515:LYS:HB3	1:F:515:LYS:HZ2	1.68	0.57
1:B:324:THR:CB	1:B:499:PRO:HA	2.34	0.57
1:B:377:GLN:O	1:B:381:GLU:HB2	2.03	0.57
1:C:282:SER:HA	1:C:285:LYS:HD3	1.87	0.57
1:C:516:VAL:HG21	1:C:532:LEU:CD1	2.34	0.57
1:E:372:LYS:HG3	1:E:373:LYS:N	2.19	0.57
1:E:587:PRO:HB2	1:E:643:ILE:HD12	1.86	0.57
1:E:776:LEU:O	1:E:780:LEU:HD13	2.04	0.57
1:F:480:ASN:ND2	1:F:481:VAL:N	2.52	0.57
1:F:587:PRO:HB2	1:F:643:ILE:HD12	1.85	0.57
2:P:100:ILE:HB	2:P:136:VAL:HG22	1.86	0.57
2:S:49:GLN:NE2	2:S:49:GLN:N	2.52	0.57
2:S:52:ILE:HG23	2:S:53:ASN:N	2.19	0.57
2:T:100:ILE:HB	2:T:136:VAL:HG22	1.84	0.57
1:A:109:ILE:CD1	1:A:157:LYS:HZ2	2.15	0.57
1:A:324:THR:CB	1:A:499:PRO:HA	2.34	0.57
1:A:657:ILE:HD11	1:A:701:LEU:HD23	1.87	0.57
1:B:630:ARG:HH11	1:B:630:ARG:HG3	1.69	0.57
1:C:301:ALA:O	1:C:303:LYS:N	2.37	0.57
1:C:729:TYR:HB2	1:C:756:ILE:HG21	1.84	0.57
1:D:301:ALA:O	1:D:303:LYS:N	2.37	0.57
1:D:684:ASP:C	1:D:686:ASP:H	2.11	0.57
1:E:736:LEU:HD21	1:E:750:GLN:NE2	2.18	0.57
2:R:102:ALA:CB	2:R:125:ILE:HG13	2.34	0.57
1:A:354:SER:O	1:A:371:SER:HB2	2.05	0.57
1:A:379:ALA:O	1:A:383:GLY:N	2.36	0.57
1:A:480:ASN:ND2	1:A:481:VAL:N	2.51	0.57
1:A:697:ILE:CD1	1:A:732:ILE:HD13	2.34	0.57
1:A:776:LEU:O	1:A:780:LEU:HD13	2.05	0.57
1:B:131:ARG:HG3	1:B:243:LEU:CD2	2.34	0.57
1:C:88:LYS:NZ	1:C:172:GLU:OE2	2.37	0.57
1:C:446:ILE:HG13	1:C:452:GLU:O	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:171:TYR:O	1:D:175:LYS:NZ	2.38	0.57
1:E:377:GLN:O	1:E:381:GLU:HB2	2.03	0.57
1:E:480:ASN:ND2	1:E:481:VAL:N	2.53	0.57
1:E:639:ASN:H	1:E:639:ASN:HD22	1.48	0.57
2:S:97:ASN:N	2:S:97:ASN:HD22	2.01	0.57
1:A:372:LYS:HG3	1:A:373:LYS:N	2.19	0.57
1:C:252:ASP:O	1:C:254:ARG:HD2	2.05	0.57
1:D:214:PHE:HB3	1:D:218:LEU:HB3	1.87	0.57
1:D:279:ILE:C	1:D:281:GLU:H	2.12	0.57
1:E:252:ASP:O	1:E:254:ARG:HD2	2.05	0.57
1:F:307:LEU:HD12	1:F:331:VAL:CG2	2.34	0.57
2:Q:51:MSE:HB3	2:Q:71:MSE:HE2	1.85	0.57
2:Q:97:ASN:ND2	2:Q:97:ASN:H	2.02	0.57
1:A:508:ILE:HG23	1:A:536:TYR:CD2	2.39	0.57
1:A:516:VAL:HG21	1:A:532:LEU:CD1	2.35	0.57
1:B:279:ILE:C	1:B:281:GLU:H	2.12	0.57
1:B:480:ASN:HD22	1:B:481:VAL:N	2.03	0.57
1:B:697:ILE:CD1	1:B:732:ILE:HD13	2.34	0.57
1:C:657:ILE:HD11	1:C:701:LEU:HD23	1.86	0.57
1:E:89:ILE:CG2	1:E:93:VAL:HG11	2.20	0.57
1:E:97:TYR:HE1	1:E:178:SER:HB2	1.69	0.57
1:E:243:LEU:HA	1:E:246:SER:OG	2.03	0.57
1:E:282:SER:HA	1:E:285:LYS:HD3	1.87	0.57
1:F:279:ILE:C	1:F:281:GLU:H	2.12	0.57
1:F:700:TYR:HD1	1:F:728:ALA:HA	1.68	0.57
2:O:59:GLY:O	2:O:62:THR:HG23	2.02	0.57
2:P:56:ASP:OD2	2:P:60:ASN:C	2.48	0.57
2:P:59:GLY:O	2:P:62:THR:CG2	2.52	0.57
1:A:214:PHE:HB3	1:A:218:LEU:HB3	1.86	0.57
1:B:516:VAL:HG21	1:B:532:LEU:CD1	2.34	0.57
1:C:480:ASN:HD22	1:C:481:VAL:H	1.52	0.57
1:D:131:ARG:HG3	1:D:243:LEU:CD2	2.35	0.57
1:D:175:LYS:O	1:D:177:ILE:N	2.37	0.57
1:D:567:THR:CG2	1:D:568:GLY:N	2.66	0.57
1:E:343:VAL:HG13	1:E:487:PRO:HG2	1.86	0.57
2:O:52:ILE:HG23	2:O:53:ASN:N	2.18	0.57
1:A:112:VAL:O	1:A:114:HIS:N	2.38	0.57
1:A:326:ILE:HG22	1:A:328:PHE:CE1	2.40	0.57
1:B:372:LYS:HG3	1:B:373:LYS:N	2.19	0.57
1:C:301:ALA:C	1:C:303:LYS:N	2.62	0.57
1:C:480:ASN:HD22	1:C:481:VAL:N	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:722:ILE:HG23	1:C:760:VAL:CG1	2.28	0.57
1:E:354:SER:O	1:E:371:SER:HB2	2.05	0.57
1:E:722:ILE:HG23	1:E:760:VAL:CG1	2.30	0.57
1:F:372:LYS:HG3	1:F:373:LYS:N	2.19	0.57
1:F:657:ILE:HD11	1:F:701:LEU:HD23	1.86	0.57
2:P:49:GLN:NE2	2:P:49:GLN:N	2.52	0.57
2:P:97:ASN:HD22	2:P:97:ASN:N	2.02	0.57
2:Q:49:GLN:H	2:Q:49:GLN:HE21	1.52	0.57
2:Q:102:ALA:CB	2:Q:125:ILE:HG13	2.34	0.57
2:R:52:ILE:HG23	2:R:53:ASN:N	2.19	0.57
2:R:97:ASN:HD22	2:R:97:ASN:N	2.02	0.57
1:A:97:TYR:HE1	1:A:178:SER:HB2	1.70	0.57
1:A:282:SER:HA	1:A:285:LYS:HD3	1.86	0.57
1:A:639:ASN:HD22	1:A:639:ASN:N	1.99	0.57
1:B:446:ILE:HG13	1:B:452:GLU:O	2.05	0.57
1:C:97:TYR:CE1	1:C:178:SER:HB2	2.38	0.57
1:C:354:SER:O	1:C:371:SER:HB2	2.05	0.57
1:E:480:ASN:HD22	1:E:481:VAL:N	2.03	0.57
1:E:630:ARG:HH11	1:E:630:ARG:HG3	1.69	0.57
2:R:51:MSE:HB3	2:R:71:MSE:HE2	1.86	0.57
2:T:49:GLN:H	2:T:49:GLN:HE21	1.52	0.57
1:B:93:VAL:CG2	1:B:179:LEU:HD11	2.35	0.57
1:B:282:SER:HA	1:B:285:LYS:HD3	1.87	0.57
1:B:301:ALA:O	1:B:303:LYS:N	2.38	0.57
1:B:480:ASN:HD22	1:B:481:VAL:H	1.51	0.57
1:B:657:ILE:HD11	1:B:701:LEU:HD23	1.87	0.57
1:B:674:SER:O	1:B:674:SER:OG	2.15	0.57
1:E:480:ASN:HD22	1:E:481:VAL:H	1.53	0.57
1:E:516:VAL:HG21	1:E:532:LEU:CD1	2.34	0.57
1:F:776:LEU:O	1:F:780:LEU:HD13	2.04	0.57
2:P:13:LYS:HZ2	2:P:65:PHE:HB3	1.69	0.57
2:P:51:MSE:HB3	2:P:71:MSE:HE2	1.86	0.57
2:R:41:GLN:O	2:R:42:ASN:HB3	2.04	0.57
2:S:100:ILE:HB	2:S:136:VAL:HG22	1.85	0.57
1:A:517:VAL:HB	1:A:525:LYS:HZ1	1.70	0.56
1:A:615:ILE:CD1	1:A:645:TRP:HH2	2.16	0.56
1:A:697:ILE:CG2	1:A:732:ILE:HD11	2.35	0.56
1:C:175:LYS:HB2	1:C:175:LYS:HZ2	1.68	0.56
1:C:508:ILE:HG23	1:C:536:TYR:CD2	2.40	0.56
1:D:639:ASN:H	1:D:639:ASN:HD22	1.49	0.56
1:E:171:TYR:O	1:E:175:LYS:NZ	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:92:ASP:O	1:F:96:ILE:HG13	2.05	0.56
1:F:171:TYR:O	1:F:175:LYS:NZ	2.38	0.56
1:F:668:SER:CA	2:T:14:GLU:HG3	2.35	0.56
2:S:51:MSE:HB3	2:S:71:MSE:HE2	1.87	0.56
1:A:175:LYS:O	1:A:177:ILE:N	2.37	0.56
1:A:343:VAL:HG13	1:A:487:PRO:HG2	1.86	0.56
1:B:307:LEU:HD12	1:B:331:VAL:CG2	2.35	0.56
1:B:354:SER:O	1:B:371:SER:HB2	2.04	0.56
1:C:214:PHE:HB3	1:C:218:LEU:HB3	1.87	0.56
1:C:480:ASN:ND2	1:C:481:VAL:N	2.52	0.56
1:C:668:SER:CA	2:Q:14:GLU:HG3	2.36	0.56
1:D:131:ARG:HB3	1:D:170:TYR:OH	2.05	0.56
1:D:343:VAL:HG13	1:D:487:PRO:HG2	1.86	0.56
1:E:301:ALA:C	1:E:303:LYS:H	2.14	0.56
1:F:279:ILE:HD13	1:F:279:ILE:N	2.20	0.56
1:F:446:ILE:HG13	1:F:452:GLU:O	2.05	0.56
1:F:516:VAL:HG21	1:F:532:LEU:CD1	2.35	0.56
2:O:41:GLN:O	2:O:42:ASN:HB3	2.05	0.56
2:S:73:ALA:O	2:S:76:MSE:N	2.33	0.56
2:S:102:ALA:CB	2:S:125:ILE:HG13	2.35	0.56
2:T:97:ASN:HD22	2:T:97:ASN:N	2.03	0.56
1:A:92:ASP:O	1:A:96:ILE:HG13	2.05	0.56
1:A:93:VAL:CG2	1:A:179:LEU:HD11	2.34	0.56
1:A:131:ARG:HG3	1:A:243:LEU:CD2	2.35	0.56
1:A:710:HIS:C	1:A:712:PHE:H	2.13	0.56
1:B:109:ILE:HD13	1:B:157:LYS:HZ3	1.69	0.56
1:B:180:ASP:C	1:B:182:ILE:H	2.13	0.56
1:B:413:LEU:HB2	1:B:419:ILE:HG12	1.87	0.56
1:B:515:LYS:NZ	1:B:516:VAL:HG23	2.20	0.56
1:C:180:ASP:O	1:C:183:SER:N	2.32	0.56
1:C:279:ILE:HD13	1:C:279:ILE:N	2.21	0.56
1:C:424:LYS:HZ2	1:C:424:LYS:HB3	1.70	0.56
1:D:175:LYS:HB2	1:D:175:LYS:HZ2	1.69	0.56
1:D:301:ALA:C	1:D:303:LYS:H	2.14	0.56
1:D:307:LEU:HD12	1:D:331:VAL:CG2	2.35	0.56
1:D:405:LEU:HD13	1:D:453:VAL:CG2	2.33	0.56
1:D:697:ILE:CG2	1:D:732:ILE:HD11	2.35	0.56
1:D:697:ILE:CD1	1:D:732:ILE:HD13	2.36	0.56
1:E:92:ASP:O	1:E:96:ILE:HG13	2.05	0.56
1:E:180:ASP:C	1:E:182:ILE:H	2.14	0.56
1:E:324:THR:CB	1:E:499:PRO:HA	2.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:360:VAL:HG11	1:E:370:LEU:HD22	1.88	0.56
1:E:657:ILE:HD11	1:E:701:LEU:HD23	1.87	0.56
1:E:697:ILE:CG2	1:E:732:ILE:HD11	2.35	0.56
1:E:697:ILE:CD1	1:E:732:ILE:HD13	2.36	0.56
1:E:711:ILE:HG13	1:E:712:PHE:CD2	2.40	0.56
1:F:282:SER:HA	1:F:285:LYS:HD3	1.87	0.56
1:F:480:ASN:HD22	1:F:481:VAL:N	2.03	0.56
1:F:697:ILE:CD1	1:F:732:ILE:HD13	2.36	0.56
2:O:49:GLN:NE2	2:O:49:GLN:N	2.52	0.56
2:P:97:ASN:H	2:P:97:ASN:ND2	2.03	0.56
2:Q:41:GLN:O	2:Q:42:ASN:HB3	2.05	0.56
1:B:508:ILE:HG23	1:B:536:TYR:CD2	2.41	0.56
1:D:279:ILE:HD13	1:D:279:ILE:N	2.21	0.56
1:D:450:ASN:ND2	1:D:452:GLU:CG	2.69	0.56
1:D:464:VAL:HG23	1:D:465:LEU:HD12	1.87	0.56
1:D:480:ASN:ND2	1:D:481:VAL:N	2.53	0.56
1:E:501:LEU:HD22	2:S:112:LEU:CD2	2.28	0.56
1:F:324:THR:CB	1:F:499:PRO:HA	2.35	0.56
2:Q:66:PRO:C	2:Q:68:PHE:N	2.63	0.56
2:S:49:GLN:H	2:S:49:GLN:HE21	1.51	0.56
2:T:66:PRO:C	2:T:68:PHE:N	2.64	0.56
1:D:188:LEU:N	1:D:188:LEU:CD2	2.63	0.56
1:D:354:SER:O	1:D:371:SER:HB2	2.04	0.56
1:F:184:LYS:HE3	1:F:191:GLU:HB2	1.88	0.56
1:F:301:ALA:O	1:F:303:LYS:N	2.39	0.56
1:F:354:SER:O	1:F:371:SER:HB2	2.06	0.56
1:F:769:SER:O	1:F:769:SER:OG	2.00	0.56
2:O:97:ASN:ND2	2:O:97:ASN:H	2.02	0.56
2:R:28:THR:HG21	2:R:30:LYS:HZ1	1.69	0.56
2:T:102:ALA:CB	2:T:125:ILE:HG13	2.35	0.56
1:A:480:ASN:HD22	1:A:481:VAL:H	1.52	0.56
1:A:480:ASN:HD22	1:A:481:VAL:N	2.03	0.56
1:D:282:SER:HA	1:D:285:LYS:HD3	1.88	0.56
1:D:296:LEU:H	1:D:296:LEU:CD2	1.91	0.56
1:D:480:ASN:HD22	1:D:481:VAL:N	2.04	0.56
1:E:165:GLN:C	1:E:167:LYS:H	2.14	0.56
1:E:184:LYS:HE3	1:E:191:GLU:HB2	1.87	0.56
1:F:234:LEU:HD23	1:F:235:THR:H	1.71	0.56
2:O:102:ALA:CB	2:O:125:ILE:HG13	2.36	0.56
2:P:41:GLN:O	2:P:42:ASN:HB3	2.04	0.56
1:A:279:ILE:C	1:A:281:GLU:H	2.12	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:238:GLN:C	1:B:240:ALA:N	2.63	0.56
1:B:360:VAL:HG11	1:B:370:LEU:HD22	1.87	0.56
1:C:97:TYR:HE1	1:C:178:SER:HB2	1.70	0.56
1:C:372:LYS:HG3	1:C:373:LYS:N	2.19	0.56
1:C:413:LEU:HB2	1:C:419:ILE:HG12	1.87	0.56
1:C:630:ARG:HG3	1:C:630:ARG:HH11	1.71	0.56
1:C:697:ILE:CG2	1:C:732:ILE:HD11	2.36	0.56
1:D:470:ASN:O	1:D:472:ARG:HG3	2.06	0.56
1:F:214:PHE:HB3	1:F:218:LEU:HB3	1.87	0.56
2:P:52:ILE:HG23	2:P:53:ASN:N	2.20	0.56
2:Q:13:LYS:HZ3	2:Q:65:PHE:HB3	1.69	0.56
2:Q:100:ILE:HB	2:Q:136:VAL:HG22	1.87	0.56
1:A:667:LEU:HB3	2:O:14:GLU:OE2	2.06	0.56
1:B:301:ALA:C	1:B:303:LYS:N	2.63	0.56
1:B:697:ILE:CG2	1:B:732:ILE:HD11	2.35	0.56
1:C:80:GLN:HG3	1:C:80:GLN:O	2.06	0.56
1:D:501:LEU:HD22	2:R:112:LEU:CD2	2.27	0.56
1:D:678:VAL:HG22	1:D:745:TYR:CE2	2.41	0.56
1:E:446:ILE:HG13	1:E:452:GLU:O	2.06	0.56
1:E:666:ASN:O	1:E:670:ILE:HG13	2.06	0.56
1:F:450:ASN:ND2	1:F:452:GLU:CG	2.69	0.56
2:S:13:LYS:HZ1	2:S:65:PHE:HB3	1.67	0.56
1:A:252:ASP:O	1:A:254:ARG:HD2	2.06	0.56
1:B:214:PHE:HB3	1:B:218:LEU:HB3	1.86	0.56
1:C:470:ASN:O	1:C:472:ARG:HG3	2.06	0.56
1:D:508:ILE:HG23	1:D:536:TYR:CD2	2.41	0.56
1:E:464:VAL:HG23	1:E:465:LEU:HD12	1.87	0.56
1:E:470:ASN:O	1:E:472:ARG:HG3	2.06	0.56
1:F:252:ASP:O	1:F:254:ARG:HD2	2.06	0.56
2:S:56:ASP:OD2	2:S:60:ASN:C	2.49	0.56
2:S:97:ASN:ND2	2:S:97:ASN:H	2.02	0.56
1:C:184:LYS:HE3	1:C:191:GLU:HB2	1.88	0.56
1:C:189:ASP:C	1:C:191:GLU:N	2.64	0.56
1:C:279:ILE:C	1:C:281:GLU:H	2.13	0.56
1:C:324:THR:CB	1:C:499:PRO:HA	2.34	0.56
1:C:464:VAL:HG23	1:C:465:LEU:HD12	1.88	0.56
1:C:515:LYS:NZ	1:C:516:VAL:HG23	2.21	0.56
1:E:187:SER:C	1:E:188:LEU:O	2.44	0.56
1:E:413:LEU:HB2	1:E:419:ILE:HG12	1.88	0.56
1:F:305:SER:HG	1:F:307:LEU:HD13	1.70	0.56
2:R:49:GLN:H	2:R:49:GLN:HE21	1.51	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:97:ASN:ND2	2:R:97:ASN:H	2.03	0.56
1:A:450:ASN:ND2	1:A:452:GLU:CG	2.70	0.55
1:A:629:ASN:HD22	1:A:630:ARG:N	2.02	0.55
1:C:171:TYR:O	1:C:175:LYS:NZ	2.39	0.55
1:D:480:ASN:HD22	1:D:481:VAL:H	1.53	0.55
1:D:741:ILE:O	1:D:742:ALA:C	2.49	0.55
1:E:79:ILE:C	1:E:81:GLN:N	2.57	0.55
1:E:515:LYS:NZ	1:E:516:VAL:HG23	2.22	0.55
1:F:505:LYS:HD3	2:T:112:LEU:O	2.07	0.55
2:Q:13:LYS:HZ1	2:Q:65:PHE:HB3	1.69	0.55
2:Q:55:VAL:CG2	2:Q:67:GLU:OE1	2.43	0.55
2:R:13:LYS:HZ2	2:R:65:PHE:HB3	1.68	0.55
2:S:117:THR:HG23	2:S:120:GLU:CB	2.31	0.55
1:A:184:LYS:HE3	1:A:191:GLU:HB2	1.87	0.55
1:A:464:VAL:HG23	1:A:465:LEU:HD12	1.87	0.55
1:B:197:LYS:C	1:B:197:LYS:HZ3	2.14	0.55
1:B:629:ASN:HD22	1:B:630:ARG:N	2.04	0.55
1:B:736:LEU:HD21	1:B:750:GLN:NE2	2.19	0.55
1:D:252:ASP:O	1:D:254:ARG:HD2	2.05	0.55
1:D:360:VAL:HG11	1:D:370:LEU:HD22	1.88	0.55
1:E:142:VAL:HG22	1:E:154:ILE:HD12	1.88	0.55
1:F:180:ASP:C	1:F:182:ILE:H	2.14	0.55
2:O:51:MSE:HB3	2:O:71:MSE:HE2	1.86	0.55
2:R:100:ILE:HB	2:R:136:VAL:HG23	1.88	0.55
2:T:55:VAL:CG2	2:T:67:GLU:OE1	2.44	0.55
1:A:301:ALA:C	1:A:303:LYS:N	2.62	0.55
1:A:741:ILE:O	1:A:742:ALA:C	2.50	0.55
1:C:234:LEU:HD23	1:C:235:THR:H	1.71	0.55
1:C:678:VAL:HG22	1:C:745:TYR:CE2	2.40	0.55
1:D:80:GLN:HG3	1:D:80:GLN:O	2.06	0.55
1:F:80:GLN:HG3	1:F:80:GLN:O	2.06	0.55
1:F:301:ALA:C	1:F:303:LYS:N	2.62	0.55
2:P:102:ALA:CB	2:P:125:ILE:HG13	2.35	0.55
2:S:59:GLY:O	2:S:62:THR:CG2	2.55	0.55
1:A:171:TYR:O	1:A:175:LYS:NZ	2.39	0.55
1:A:301:ALA:O	1:A:303:LYS:N	2.39	0.55
1:D:326:ILE:HG22	1:D:328:PHE:CE1	2.41	0.55
1:D:668:SER:CA	2:R:14:GLU:HG3	2.36	0.55
1:E:153:ILE:C	1:E:154:ILE:HD13	2.31	0.55
1:E:188:LEU:N	1:E:188:LEU:CD2	2.62	0.55
1:E:279:ILE:HD13	1:E:279:ILE:N	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:305:SER:HG	1:E:307:LEU:HD13	1.70	0.55
1:E:462:ILE:HG12	1:E:463:THR:H	1.72	0.55
2:T:97:ASN:ND2	2:T:97:ASN:H	2.04	0.55
1:A:301:ALA:C	1:A:303:LYS:H	2.14	0.55
1:C:165:GLN:C	1:C:167:LYS:H	2.14	0.55
1:D:112:VAL:O	1:D:114:HIS:N	2.38	0.55
1:D:123:GLU:HG2	1:D:124:GLU:N	2.21	0.55
1:D:413:LEU:HB2	1:D:419:ILE:HG12	1.88	0.55
1:E:189:ASP:C	1:E:191:GLU:N	2.64	0.55
1:E:214:PHE:HB3	1:E:218:LEU:HB3	1.88	0.55
1:E:234:LEU:HD23	1:E:235:THR:H	1.72	0.55
1:F:77:ASP:O	1:F:81:GLN:HB2	2.07	0.55
1:F:131:ARG:HG3	1:F:243:LEU:CD2	2.35	0.55
1:F:175:LYS:HB2	1:F:175:LYS:HZ2	1.70	0.55
1:F:189:ASP:C	1:F:191:GLU:N	2.65	0.55
1:F:360:VAL:HG11	1:F:370:LEU:HD22	1.88	0.55
1:F:443:GLU:HG3	1:F:458:LYS:HG2	1.89	0.55
2:Q:59:GLY:O	2:Q:62:THR:HG22	2.05	0.55
2:T:32:LEU:HG	2:T:36:MSE:HE2	1.89	0.55
1:A:189:ASP:C	1:A:191:GLU:N	2.64	0.55
1:A:234:LEU:HD23	1:A:235:THR:H	1.72	0.55
1:A:238:GLN:C	1:A:240:ALA:N	2.63	0.55
1:A:360:VAL:HG11	1:A:370:LEU:HD22	1.89	0.55
1:A:413:LEU:HB2	1:A:419:ILE:HG12	1.88	0.55
1:B:123:GLU:HG2	1:B:124:GLU:N	2.21	0.55
1:B:301:ALA:C	1:B:303:LYS:H	2.14	0.55
1:B:443:GLU:HG3	1:B:458:LYS:HG2	1.88	0.55
1:B:741:ILE:O	1:B:742:ALA:C	2.50	0.55
1:C:112:VAL:O	1:C:114:HIS:N	2.39	0.55
1:C:180:ASP:C	1:C:182:ILE:H	2.14	0.55
1:C:305:SER:HG	1:C:307:LEU:HD13	1.70	0.55
1:E:80:GLN:HG3	1:E:80:GLN:O	2.06	0.55
1:E:629:ASN:HD22	1:E:630:ARG:N	2.04	0.55
1:E:697:ILE:HG21	1:E:732:ILE:HD11	1.88	0.55
2:O:28:THR:CB	2:O:30:LYS:NZ	2.68	0.55
2:R:66:PRO:C	2:R:68:PHE:N	2.63	0.55
2:S:32:LEU:HG	2:S:36:MSE:HE2	1.89	0.55
2:S:41:GLN:O	2:S:42:ASN:HB3	2.05	0.55
1:A:443:GLU:HG3	1:A:458:LYS:HG2	1.89	0.55
1:A:515:LYS:NZ	1:A:516:VAL:HG23	2.21	0.55
1:A:666:ASN:O	1:A:670:ILE:HG13	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:184:LYS:HE3	1:B:191:GLU:HB2	1.88	0.55
1:B:189:ASP:C	1:B:191:GLU:N	2.65	0.55
1:C:301:ALA:C	1:C:303:LYS:H	2.14	0.55
1:C:405:LEU:HD13	1:C:453:VAL:CG2	2.33	0.55
1:D:109:ILE:HD11	1:D:157:LYS:HZ2	1.72	0.55
1:E:238:GLN:C	1:E:240:ALA:N	2.63	0.55
1:E:443:GLU:HG3	1:E:458:LYS:HG2	1.88	0.55
1:E:710:HIS:C	1:E:712:PHE:H	2.14	0.55
1:F:407:HIS:HB2	1:F:408:LEU:HD12	1.88	0.55
1:F:508:ILE:HG23	1:F:536:TYR:CD2	2.40	0.55
1:F:776:LEU:HD23	1:F:776:LEU:C	2.32	0.55
2:O:28:THR:CG2	2:O:30:LYS:HZ1	2.19	0.55
2:R:55:VAL:CG2	2:R:67:GLU:OE1	2.44	0.55
1:A:470:ASN:O	1:A:472:ARG:HG3	2.06	0.55
1:B:171:TYR:O	1:B:175:LYS:NZ	2.39	0.55
1:B:252:ASP:O	1:B:254:ARG:HD2	2.06	0.55
1:B:462:ILE:HG12	1:B:463:THR:H	1.72	0.55
1:B:666:ASN:O	1:B:670:ILE:HG13	2.06	0.55
1:D:74:GLU:HB2	1:D:78:LYS:CB	2.37	0.55
1:D:710:HIS:C	1:D:712:PHE:H	2.14	0.55
1:E:173:ILE:HG13	1:E:242:SER:CB	2.37	0.55
1:F:296:LEU:H	1:F:296:LEU:CD2	1.91	0.55
2:O:73:ALA:O	2:O:74:ARG:C	2.50	0.55
1:A:180:ASP:C	1:A:182:ILE:H	2.14	0.55
1:A:424:LYS:HZ2	1:A:424:LYS:HB3	1.72	0.55
1:A:505:LYS:HD3	2:O:112:LEU:O	2.07	0.55
1:A:668:SER:CA	2:O:14:GLU:HG3	2.36	0.55
1:A:697:ILE:HG21	1:A:732:ILE:HD11	1.89	0.55
1:B:77:ASP:O	1:B:81:GLN:HB2	2.07	0.55
1:B:326:ILE:HG22	1:B:328:PHE:CE1	2.42	0.55
1:B:470:ASN:O	1:B:472:ARG:HG3	2.06	0.55
1:B:710:HIS:C	1:B:712:PHE:H	2.14	0.55
1:C:443:GLU:HG3	1:C:458:LYS:HG2	1.88	0.55
1:C:446:ILE:HG13	1:C:451:ASN:O	2.07	0.55
1:D:77:ASP:O	1:D:81:GLN:HB2	2.07	0.55
1:D:184:LYS:HE3	1:D:191:GLU:HB2	1.89	0.55
1:D:443:GLU:HG3	1:D:458:LYS:HG2	1.88	0.55
1:E:668:SER:CA	2:S:14:GLU:HG3	2.36	0.55
1:E:741:ILE:O	1:E:742:ALA:C	2.49	0.55
1:F:154:ILE:HG13	1:F:171:TYR:HE1	1.62	0.55
1:F:462:ILE:HG12	1:F:463:THR:H	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:12:PHE:CE1	2:P:72:MSE:SE	3.10	0.55
1:C:131:ARG:HB3	1:C:170:TYR:OH	2.06	0.55
1:D:93:VAL:CG2	1:D:179:LEU:HD11	2.35	0.55
1:D:189:ASP:C	1:D:191:GLU:N	2.65	0.55
1:D:515:LYS:NZ	1:D:516:VAL:HG23	2.22	0.55
1:D:658:PRO:HD3	1:D:755:ARG:NH1	2.21	0.55
1:E:77:ASP:O	1:E:81:GLN:HB2	2.07	0.55
1:E:123:GLU:HG2	1:E:124:GLU:N	2.22	0.55
1:E:301:ALA:C	1:E:303:LYS:N	2.62	0.55
1:F:79:ILE:C	1:F:81:GLN:N	2.57	0.55
1:F:153:ILE:C	1:F:154:ILE:HD13	2.32	0.55
1:F:278:LYS:HB2	1:F:279:ILE:HD13	1.89	0.55
1:F:326:ILE:HG22	1:F:328:PHE:CE1	2.42	0.55
1:F:470:ASN:O	1:F:472:ARG:HG3	2.07	0.55
1:F:597:ASN:HD21	1:F:601:GLU:CB	2.08	0.55
1:F:678:VAL:HG22	1:F:745:TYR:CE2	2.42	0.55
1:F:697:ILE:CG2	1:F:732:ILE:HD11	2.36	0.55
2:T:117:THR:OG1	2:T:119:GLU:HG2	2.07	0.55
1:A:254:ARG:HD2	1:A:254:ARG:H	1.72	0.54
1:B:153:ILE:C	1:B:154:ILE:HD13	2.31	0.54
1:B:165:GLN:C	1:B:167:LYS:H	2.15	0.54
1:B:450:ASN:ND2	1:B:452:GLU:CG	2.71	0.54
1:B:464:VAL:HG23	1:B:465:LEU:HD12	1.88	0.54
1:B:517:VAL:HB	1:B:525:LYS:HZ1	1.70	0.54
1:B:697:ILE:HG21	1:B:732:ILE:HD11	1.89	0.54
1:C:77:ASP:O	1:C:81:GLN:HB2	2.07	0.54
1:C:329:ARG:HD2	1:C:590:ASP:OD2	2.07	0.54
1:D:324:THR:CB	1:D:499:PRO:HA	2.36	0.54
1:E:786:GLU:O	1:E:789:ASN:HB3	2.07	0.54
1:F:301:ALA:C	1:F:303:LYS:H	2.14	0.54
2:O:13:LYS:HZ2	2:O:65:PHE:HB3	1.67	0.54
2:P:49:GLN:H	2:P:49:GLN:HE21	1.52	0.54
2:T:28:THR:CB	2:T:30:LYS:NZ	2.70	0.54
1:A:462:ILE:HG12	1:A:463:THR:H	1.72	0.54
1:C:450:ASN:ND2	1:C:452:GLU:CG	2.71	0.54
1:C:741:ILE:O	1:C:742:ALA:C	2.50	0.54
1:D:234:LEU:HD23	1:D:235:THR:H	1.72	0.54
1:D:446:ILE:HG13	1:D:451:ASN:O	2.07	0.54
1:D:697:ILE:HG21	1:D:732:ILE:HD11	1.90	0.54
1:D:786:GLU:O	1:D:789:ASN:HB3	2.08	0.54
1:E:505:LYS:HD3	2:S:112:LEU:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:413:LEU:HB2	1:F:419:ILE:HG12	1.88	0.54
1:F:710:HIS:C	1:F:712:PHE:H	2.14	0.54
2:S:73:ALA:O	2:S:74:ARG:C	2.51	0.54
1:A:165:GLN:C	1:A:167:LYS:H	2.14	0.54
1:A:446:ILE:HG13	1:A:451:ASN:O	2.07	0.54
1:B:123:GLU:O	1:B:146:LYS:NZ	2.40	0.54
1:B:188:LEU:N	1:B:188:LEU:CD2	2.62	0.54
1:E:407:HIS:HB2	1:E:408:LEU:HD12	1.88	0.54
1:F:515:LYS:NZ	1:F:516:VAL:HG23	2.23	0.54
1:F:629:ASN:HD22	1:F:630:ARG:N	2.04	0.54
2:Q:73:ALA:O	2:Q:74:ARG:C	2.50	0.54
1:A:678:VAL:HG22	1:A:745:TYR:CE2	2.42	0.54
1:A:776:LEU:HD23	1:A:776:LEU:C	2.33	0.54
1:B:80:GLN:O	1:B:80:GLN:HG3	2.07	0.54
1:C:76:LEU:HD22	1:C:76:LEU:N	2.22	0.54
1:C:187:SER:C	1:C:188:LEU:O	2.44	0.54
1:C:407:HIS:HB2	1:C:408:LEU:HD12	1.89	0.54
1:C:666:ASN:O	1:C:670:ILE:HG13	2.07	0.54
1:D:112:VAL:HG12	1:D:113:GLU:N	2.09	0.54
1:D:666:ASN:O	1:D:670:ILE:HG13	2.06	0.54
1:E:217:LYS:HB3	1:E:217:LYS:NZ	2.23	0.54
1:E:678:VAL:HG22	1:E:745:TYR:CE2	2.42	0.54
1:F:131:ARG:HB3	1:F:170:TYR:OH	2.07	0.54
1:F:230:ILE:HG13	1:F:237:PHE:CE2	2.43	0.54
1:F:464:VAL:HG23	1:F:465:LEU:HD12	1.88	0.54
2:O:32:LEU:HG	2:O:36:MSE:HE2	1.89	0.54
2:R:76:MSE:C	2:R:78:ASP:H	2.16	0.54
2:S:97:ASN:HD22	2:S:97:ASN:H	1.56	0.54
1:A:142:VAL:HG22	1:A:154:ILE:HD12	1.88	0.54
1:A:335:ALA:O	1:A:339:ILE:HG13	2.07	0.54
1:A:794:GLN:NE2	1:A:795:LYS:N	2.56	0.54
1:C:123:GLU:HG2	1:C:124:GLU:N	2.21	0.54
1:C:776:LEU:HD23	1:C:776:LEU:C	2.32	0.54
1:D:165:GLN:C	1:D:167:LYS:H	2.14	0.54
1:F:350:VAL:HG12	1:F:352:GLY:H	1.73	0.54
1:F:666:ASN:O	1:F:670:ILE:HG13	2.08	0.54
1:F:786:GLU:O	1:F:789:ASN:HB3	2.08	0.54
2:O:129:ASP:OD2	2:O:140:GLU:OE2	2.26	0.54
2:P:32:LEU:HG	2:P:36:MSE:HE2	1.90	0.54
2:T:146:THR:O	2:T:147:ALA:C	2.49	0.54
1:A:279:ILE:HD13	1:A:279:ILE:N	2.20	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:786:GLU:O	1:A:789:ASN:HB3	2.08	0.54
1:B:446:ILE:HG13	1:B:451:ASN:O	2.08	0.54
1:B:678:VAL:HG22	1:B:745:TYR:CE2	2.42	0.54
1:B:786:GLU:O	1:B:789:ASN:HB3	2.08	0.54
2:O:49:GLN:H	2:O:49:GLN:HE21	1.52	0.54
2:P:73:ALA:O	2:P:74:ARG:C	2.50	0.54
2:R:110:THR:O	2:R:113:GLY:N	2.39	0.54
1:A:165:GLN:HE21	1:A:251:PRO:CG	2.20	0.54
1:A:407:HIS:HB2	1:A:408:LEU:HD12	1.89	0.54
1:B:658:PRO:HD3	1:B:755:ARG:NH1	2.23	0.54
1:B:776:LEU:HD23	1:B:776:LEU:C	2.33	0.54
1:C:165:GLN:HE21	1:C:251:PRO:CG	2.20	0.54
1:C:217:LYS:HB3	1:C:217:LYS:NZ	2.22	0.54
1:C:794:GLN:NE2	1:C:795:LYS:N	2.56	0.54
1:E:306:GLY:O	1:E:336:THR:HG23	2.07	0.54
1:F:74:GLU:HB2	1:F:78:LYS:CB	2.37	0.54
2:O:65:PHE:HB2	2:O:66:PRO:CD	2.35	0.54
2:O:136:VAL:O	2:O:136:VAL:HG23	2.08	0.54
2:P:13:LYS:HZ1	2:P:65:PHE:HB3	1.68	0.54
2:Q:136:VAL:HG23	2:Q:136:VAL:O	2.08	0.54
2:R:65:PHE:HB2	2:R:66:PRO:CD	2.36	0.54
2:R:100:ILE:HB	2:R:136:VAL:HG22	1.87	0.54
1:A:123:GLU:HG2	1:A:124:GLU:N	2.22	0.54
1:A:131:ARG:HB3	1:A:170:TYR:OH	2.08	0.54
1:A:413:LEU:HD23	1:A:413:LEU:N	2.23	0.54
1:B:407:HIS:HB2	1:B:408:LEU:HD12	1.89	0.54
1:C:142:VAL:HG22	1:C:154:ILE:HD12	1.89	0.54
1:C:275:GLY:HA2	1:C:278:LYS:CD	2.38	0.54
1:C:311:HIS:O	1:C:312:ALA:C	2.51	0.54
1:C:412:GLU:C	1:C:414:LYS:H	2.16	0.54
1:C:697:ILE:HG21	1:C:732:ILE:HD11	1.90	0.54
1:E:776:LEU:HD23	1:E:776:LEU:C	2.33	0.54
1:F:196:ILE:HG23	1:F:199:LEU:HD12	1.90	0.54
1:F:741:ILE:O	1:F:742:ALA:C	2.50	0.54
2:P:110:THR:O	2:P:113:GLY:N	2.37	0.54
2:S:146:THR:O	2:S:147:ALA:C	2.50	0.54
1:A:350:VAL:HG12	1:A:352:GLY:H	1.73	0.54
1:A:713:SER:O	1:A:717:LYS:HG3	2.08	0.54
1:B:134:LYS:HG2	1:B:136:PRO:HD3	1.90	0.54
1:C:709:ASN:HB2	2:Q:130:ILE:HG23	1.90	0.54
1:D:217:LYS:HB3	1:D:217:LYS:NZ	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:515:LYS:HB3	1:D:515:LYS:HZ2	1.71	0.54
1:E:81:GLN:CD	1:E:156:ILE:HG21	2.33	0.54
1:E:311:HIS:O	1:E:312:ALA:C	2.51	0.54
1:F:127:SER:O	1:F:133:GLU:CD	2.48	0.54
1:F:165:GLN:C	1:F:167:LYS:H	2.15	0.54
1:F:254:ARG:HD2	1:F:254:ARG:H	1.73	0.54
2:O:12:PHE:CE1	2:O:72:MSE:SE	3.11	0.54
2:O:97:ASN:HD22	2:O:97:ASN:H	1.56	0.54
2:Q:24:ASP:OD1	2:Q:25:GLY:N	2.40	0.54
2:Q:28:THR:CB	2:Q:30:LYS:NZ	2.70	0.54
2:R:73:ALA:O	2:R:74:ARG:C	2.50	0.54
2:T:73:ALA:O	2:T:74:ARG:C	2.50	0.54
2:T:110:THR:O	2:T:113:GLY:N	2.39	0.54
1:A:80:GLN:HG3	1:A:80:GLN:O	2.06	0.54
1:B:165:GLN:HE21	1:B:251:PRO:CG	2.20	0.54
1:B:794:GLN:NE2	1:B:795:LYS:N	2.56	0.54
1:C:74:GLU:HB2	1:C:78:LYS:CB	2.37	0.54
1:D:153:ILE:C	1:D:154:ILE:HD13	2.33	0.54
1:D:403:LEU:HG	1:D:405:LEU:HD12	1.90	0.54
1:D:407:HIS:HB2	1:D:408:LEU:HD12	1.89	0.54
1:D:709:ASN:HB2	2:R:130:ILE:HG23	1.90	0.54
1:E:115:LYS:HB3	1:E:115:LYS:HZ3	1.73	0.54
1:F:165:GLN:HE21	1:F:251:PRO:CG	2.20	0.54
1:F:329:ARG:HD2	1:F:590:ASP:OD2	2.08	0.54
1:F:615:ILE:CD1	1:F:645:TRP:HH2	2.16	0.54
2:O:58:ASP:N	2:O:58:ASP:OD2	2.41	0.54
2:P:58:ASP:OD2	2:P:58:ASP:N	2.41	0.54
2:T:100:ILE:HB	2:T:136:VAL:HG23	1.89	0.54
1:A:74:GLU:HB2	1:A:78:LYS:CB	2.38	0.53
1:A:77:ASP:O	1:A:81:GLN:HB2	2.07	0.53
1:A:123:GLU:O	1:A:146:LYS:NZ	2.40	0.53
1:A:145:LYS:HB3	1:A:151:LYS:HB2	1.90	0.53
1:A:329:ARG:HD2	1:A:590:ASP:OD2	2.09	0.53
1:B:109:ILE:HD11	1:B:157:LYS:HZ2	1.72	0.53
1:C:238:GLN:C	1:C:240:ALA:N	2.63	0.53
1:C:254:ARG:HD2	1:C:254:ARG:H	1.73	0.53
1:C:629:ASN:ND2	1:C:629:ASN:C	2.65	0.53
1:C:629:ASN:HD22	1:C:630:ARG:N	2.05	0.53
1:D:165:GLN:HE21	1:D:251:PRO:CG	2.20	0.53
1:D:180:ASP:C	1:D:182:ILE:H	2.15	0.53
1:D:238:GLN:C	1:D:240:ALA:N	2.63	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:74:GLU:HB2	1:E:78:LYS:CB	2.37	0.53
1:F:109:ILE:HD13	1:F:157:LYS:HZ3	1.71	0.53
1:F:180:ASP:O	1:F:183:SER:N	2.33	0.53
2:O:117:THR:OG1	2:O:119:GLU:HG2	2.08	0.53
2:T:76:MSE:C	2:T:78:ASP:H	2.16	0.53
1:A:173:ILE:HD12	1:A:243:LEU:CD2	2.38	0.53
1:A:515:LYS:HZ3	1:A:516:VAL:N	2.06	0.53
1:B:234:LEU:HD23	1:B:235:THR:H	1.71	0.53
1:C:137:PHE:O	1:C:139:SER:N	2.42	0.53
1:C:176:GLY:O	1:C:180:ASP:OD1	2.27	0.53
1:C:230:ILE:HG13	1:C:237:PHE:CE2	2.43	0.53
1:C:697:ILE:C	1:C:699:GLY:N	2.65	0.53
1:D:196:ILE:HG23	1:D:199:LEU:HD12	1.90	0.53
1:D:350:VAL:HG12	1:D:352:GLY:H	1.73	0.53
1:E:123:GLU:O	1:E:146:LYS:NZ	2.41	0.53
1:E:794:GLN:NE2	1:E:795:LYS:N	2.56	0.53
1:F:135:VAL:O	1:F:135:VAL:HG22	2.08	0.53
1:F:176:GLY:O	1:F:180:ASP:OD1	2.26	0.53
2:P:28:THR:CB	2:P:30:LYS:NZ	2.70	0.53
2:P:65:PHE:HB2	2:P:66:PRO:CD	2.35	0.53
2:Q:43:PRO:HG3	2:Q:48:LEU:HD13	1.91	0.53
2:S:117:THR:OG1	2:S:119:GLU:HG2	2.08	0.53
1:C:350:VAL:HG12	1:C:352:GLY:H	1.74	0.53
1:C:404:LYS:O	1:C:405:LEU:C	2.52	0.53
1:D:142:VAL:HG22	1:D:154:ILE:HD12	1.89	0.53
1:D:275:GLY:HA2	1:D:278:LYS:CG	2.38	0.53
1:D:776:LEU:HD23	1:D:776:LEU:C	2.33	0.53
1:E:196:ILE:HG23	1:E:199:LEU:HD12	1.90	0.53
1:E:275:GLY:HA2	1:E:278:LYS:CD	2.39	0.53
1:E:517:VAL:HB	1:E:525:LYS:HZ1	1.73	0.53
1:F:123:GLU:O	1:F:146:LYS:NZ	2.41	0.53
1:F:629:ASN:ND2	1:F:629:ASN:C	2.64	0.53
2:O:66:PRO:C	2:O:68:PHE:N	2.64	0.53
2:O:110:THR:O	2:O:113:GLY:N	2.38	0.53
2:R:28:THR:CB	2:R:30:LYS:NZ	2.71	0.53
2:R:58:ASP:OD2	2:R:58:ASP:N	2.41	0.53
2:S:12:PHE:CE1	2:S:72:MSE:SE	3.11	0.53
2:S:58:ASP:OD2	2:S:58:ASP:N	2.41	0.53
2:T:43:PRO:HG3	2:T:48:LEU:HD13	1.91	0.53
1:A:75:THR:O	1:A:76:LEU:C	2.52	0.53
1:A:217:LYS:HB3	1:A:217:LYS:NZ	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:747:ASN:O	1:A:750:GLN:HB2	2.08	0.53
1:B:275:GLY:HA2	1:B:278:LYS:CD	2.39	0.53
1:B:275:GLY:HA2	1:B:278:LYS:CG	2.39	0.53
1:B:668:SER:CA	2:P:14:GLU:HG3	2.37	0.53
1:C:196:ILE:HG23	1:C:199:LEU:HD12	1.89	0.53
1:C:405:LEU:HD12	1:C:405:LEU:N	2.24	0.53
1:C:667:LEU:HB3	2:Q:14:GLU:OE2	2.08	0.53
1:D:199:LEU:C	1:D:201:ASP:N	2.67	0.53
1:D:205:SER:C	1:D:207:ASP:H	2.17	0.53
1:D:279:ILE:H	1:D:279:ILE:CD1	2.06	0.53
1:E:326:ILE:HG22	1:E:328:PHE:CE1	2.43	0.53
1:F:123:GLU:HG2	1:F:124:GLU:N	2.22	0.53
1:F:517:VAL:HB	1:F:525:LYS:HZ1	1.72	0.53
1:F:674:SER:O	1:F:674:SER:OG	2.16	0.53
2:P:28:THR:OG1	2:P:31:GLU:HB2	2.09	0.53
2:P:129:ASP:OD2	2:P:140:GLU:OE2	2.27	0.53
1:A:275:GLY:HA2	1:A:278:LYS:CD	2.38	0.53
1:A:561:ASN:HA	1:A:564:VAL:HG22	1.91	0.53
1:A:794:GLN:HE22	1:A:795:LYS:HG3	1.74	0.53
1:B:230:ILE:HG13	1:B:237:PHE:CE2	2.43	0.53
1:B:271:LEU:HA	1:B:275:GLY:HA3	1.90	0.53
1:B:279:ILE:HD13	1:B:279:ILE:N	2.21	0.53
1:B:413:LEU:HD23	1:B:413:LEU:N	2.24	0.53
1:B:561:ASN:HA	1:B:564:VAL:HG22	1.91	0.53
1:C:109:ILE:HD11	1:C:157:LYS:HZ2	1.73	0.53
1:C:123:GLU:O	1:C:146:LYS:NZ	2.42	0.53
1:D:123:GLU:O	1:D:146:LYS:NZ	2.41	0.53
1:D:176:GLY:O	1:D:180:ASP:OD1	2.25	0.53
1:D:404:LYS:O	1:D:405:LEU:C	2.52	0.53
1:D:412:GLU:C	1:D:414:LYS:H	2.16	0.53
1:D:437:SER:C	1:D:439:ASN:H	2.17	0.53
1:D:636:ALA:O	1:D:640:LYS:HA	2.08	0.53
1:E:109:ILE:HD13	1:E:157:LYS:HZ3	1.71	0.53
1:E:137:PHE:O	1:E:139:SER:N	2.42	0.53
1:E:450:ASN:ND2	1:E:452:GLU:CG	2.71	0.53
1:F:93:VAL:CG2	1:F:179:LEU:HD11	2.35	0.53
1:F:142:VAL:HG22	1:F:154:ILE:HD12	1.91	0.53
1:F:404:LYS:O	1:F:405:LEU:C	2.52	0.53
2:P:9:ILE:CD1	2:P:69:LEU:HD11	2.37	0.53
2:Q:100:ILE:HB	2:Q:136:VAL:HG23	1.90	0.53
2:R:28:THR:OG1	2:R:31:GLU:HB2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:146:THR:O	2:R:147:ALA:C	2.51	0.53
2:S:66:PRO:C	2:S:68:PHE:N	2.64	0.53
1:A:137:PHE:O	1:A:139:SER:N	2.42	0.53
1:A:196:ILE:HG23	1:A:199:LEU:HD12	1.91	0.53
1:A:205:SER:C	1:A:207:ASP:H	2.17	0.53
1:A:482:GLU:O	1:A:484:VAL:HG23	2.09	0.53
1:B:254:ARG:HD2	1:B:254:ARG:H	1.73	0.53
1:B:306:GLY:O	1:B:336:THR:HG23	2.09	0.53
1:C:205:SER:C	1:C:207:ASP:H	2.17	0.53
1:C:324:THR:HB	1:C:499:PRO:CA	2.37	0.53
1:C:636:ALA:O	1:C:640:LYS:HA	2.08	0.53
1:E:747:ASN:O	1:E:750:GLN:HB2	2.09	0.53
1:F:629:ASN:HD22	1:F:631:SER:N	1.98	0.53
1:F:794:GLN:NE2	1:F:795:LYS:N	2.57	0.53
2:P:65:PHE:HD1	2:P:65:PHE:H	1.54	0.53
2:P:136:VAL:HG23	2:P:136:VAL:O	2.08	0.53
2:Q:117:THR:OG1	2:Q:119:GLU:HG2	2.08	0.53
2:R:65:PHE:HD1	2:R:65:PHE:H	1.55	0.53
2:R:97:ASN:HD22	2:R:97:ASN:H	1.57	0.53
2:S:28:THR:CB	2:S:30:LYS:NZ	2.70	0.53
2:S:28:THR:HG21	2:S:30:LYS:HZ1	1.73	0.53
2:S:43:PRO:HG3	2:S:48:LEU:HD13	1.90	0.53
1:A:404:LYS:O	1:A:405:LEU:C	2.52	0.53
1:A:533:LEU:HD23	1:A:533:LEU:C	2.33	0.53
1:A:636:ALA:O	1:A:640:LYS:HA	2.09	0.53
1:B:75:THR:O	1:B:76:LEU:C	2.51	0.53
1:B:187:SER:C	1:B:188:LEU:O	2.44	0.53
1:B:205:SER:C	1:B:207:ASP:H	2.17	0.53
1:B:335:ALA:O	1:B:339:ILE:HG13	2.09	0.53
1:C:403:LEU:HG	1:C:405:LEU:HD12	1.90	0.53
1:C:515:LYS:HZ3	1:C:516:VAL:HG23	1.73	0.53
1:D:76:LEU:HD22	1:D:76:LEU:N	2.22	0.53
1:D:515:LYS:HZ3	1:D:516:VAL:N	2.07	0.53
1:F:76:LEU:HD22	1:F:76:LEU:N	2.22	0.53
1:F:636:ALA:O	1:F:640:LYS:HA	2.08	0.53
1:F:697:ILE:HG21	1:F:732:ILE:HD11	1.90	0.53
1:F:713:SER:O	1:F:717:LYS:HG3	2.08	0.53
1:F:747:ASN:O	1:F:750:GLN:HB2	2.09	0.53
2:P:76:MSE:C	2:P:78:ASP:H	2.17	0.53
2:Q:32:LEU:HG	2:Q:36:MSE:HE2	1.91	0.53
2:Q:58:ASP:OD2	2:Q:58:ASP:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:65:PHE:HB2	2:Q:66:PRO:CD	2.35	0.53
2:Q:65:PHE:H	2:Q:65:PHE:HD1	1.55	0.53
2:Q:76:MSE:C	2:Q:78:ASP:H	2.16	0.53
2:Q:97:ASN:HD22	2:Q:97:ASN:H	1.57	0.53
2:R:43:PRO:HG3	2:R:48:LEU:HD13	1.90	0.53
2:R:136:VAL:HG23	2:R:136:VAL:O	2.08	0.53
2:S:110:THR:O	2:S:113:GLY:N	2.39	0.53
2:T:58:ASP:OD2	2:T:58:ASP:N	2.41	0.53
1:A:109:ILE:HD11	1:A:157:LYS:HZ2	1.73	0.53
1:A:275:GLY:HA2	1:A:278:LYS:CG	2.38	0.53
1:A:403:LEU:HG	1:A:405:LEU:HD12	1.91	0.53
1:A:405:LEU:HD12	1:A:405:LEU:N	2.24	0.53
1:A:671:ARG:HH12	1:A:677:GLY:HA3	1.72	0.53
1:B:176:GLY:O	1:B:180:ASP:OD1	2.26	0.53
1:B:405:LEU:HD12	1:B:405:LEU:N	2.24	0.53
1:C:326:ILE:HG22	1:C:328:PHE:CE1	2.44	0.53
1:C:327:LEU:HD12	1:C:327:LEU:N	2.24	0.53
1:C:462:ILE:HG12	1:C:463:THR:H	1.72	0.53
1:D:306:GLY:O	1:D:336:THR:HG23	2.09	0.53
1:E:230:ILE:HG13	1:E:237:PHE:CE2	2.44	0.53
1:E:658:PRO:HD3	1:E:755:ARG:NH1	2.24	0.53
1:E:794:GLN:HE22	1:E:795:LYS:HG3	1.73	0.53
1:F:437:SER:C	1:F:439:ASN:H	2.17	0.53
1:F:499:PRO:HD3	1:F:552:TRP:CH2	2.44	0.53
1:F:697:ILE:C	1:F:699:GLY:N	2.67	0.53
2:Q:9:ILE:HG23	2:Q:69:LEU:HD21	1.91	0.53
1:A:709:ASN:HB2	2:O:130:ILE:HG23	1.90	0.53
1:B:403:LEU:HG	1:B:405:LEU:HD12	1.90	0.53
1:B:636:ALA:O	1:B:640:LYS:HA	2.08	0.53
1:C:131:ARG:HG3	1:C:243:LEU:HD22	1.91	0.53
1:C:360:VAL:HG11	1:C:370:LEU:HD22	1.89	0.53
1:C:671:ARG:HH12	1:C:677:GLY:HA3	1.73	0.53
1:D:335:ALA:O	1:D:339:ILE:HG13	2.08	0.53
1:D:667:LEU:HB3	2:R:14:GLU:OE2	2.09	0.53
1:F:199:LEU:C	1:F:201:ASP:N	2.67	0.53
2:R:32:LEU:HG	2:R:36:MSE:HE2	1.90	0.53
2:S:129:ASP:OD2	2:S:140:GLU:OE2	2.27	0.53
1:A:230:ILE:HG13	1:A:237:PHE:CE2	2.43	0.53
1:A:501:LEU:HD22	2:O:112:LEU:CD2	2.26	0.53
1:A:795:LYS:HA	1:A:798:ASP:OD2	2.09	0.53
1:B:794:GLN:HE22	1:B:795:LYS:HG3	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:413:LEU:HD23	1:C:413:LEU:N	2.24	0.53
1:C:437:SER:C	1:C:439:ASN:H	2.17	0.53
1:C:443:GLU:CG	1:C:458:LYS:HZ2	2.22	0.53
1:C:505:LYS:HD3	2:Q:112:LEU:O	2.09	0.53
1:C:629:ASN:HD22	1:C:631:SER:N	1.98	0.53
1:C:710:HIS:C	1:C:712:PHE:H	2.16	0.53
1:D:218:LEU:HD21	1:D:225:ILE:CD1	2.39	0.53
1:D:230:ILE:HG13	1:D:237:PHE:CE2	2.43	0.53
1:D:305:SER:HG	1:D:307:LEU:HD13	1.72	0.53
1:E:76:LEU:HD22	1:E:76:LEU:N	2.21	0.53
1:E:134:LYS:HG2	1:E:136:PRO:HD3	1.91	0.53
1:E:217:LYS:HB2	1:E:236:GLU:CD	2.34	0.53
1:E:218:LEU:C	1:E:220:LEU:H	2.15	0.53
1:F:173:ILE:HD12	1:F:243:LEU:CD2	2.39	0.53
1:F:275:GLY:HA2	1:F:278:LYS:CG	2.39	0.53
1:F:446:ILE:HG13	1:F:451:ASN:O	2.07	0.53
2:O:43:PRO:HG3	2:O:48:LEU:HD13	1.90	0.53
2:O:65:PHE:HD1	2:O:65:PHE:H	1.56	0.53
2:P:66:PRO:C	2:P:68:PHE:N	2.64	0.53
2:P:70:THR:HG22	2:P:70:THR:O	2.08	0.53
2:Q:12:PHE:CE1	2:Q:72:MSE:SE	3.12	0.53
2:T:12:PHE:CE1	2:T:72:MSE:SE	3.12	0.53
1:A:437:SER:C	1:A:439:ASN:H	2.18	0.52
1:A:558:ASP:O	1:A:560:LEU:N	2.43	0.52
1:A:630:ARG:NH1	1:A:630:ARG:HG3	2.24	0.52
1:B:350:VAL:HG12	1:B:352:GLY:H	1.73	0.52
1:B:515:LYS:HZ3	1:B:516:VAL:N	2.07	0.52
1:B:558:ASP:O	1:B:560:LEU:N	2.42	0.52
1:C:173:ILE:HG23	1:C:174:GLY:H	1.74	0.52
1:D:311:HIS:O	1:D:312:ALA:C	2.52	0.52
1:D:561:ASN:HA	1:D:564:VAL:HG22	1.91	0.52
1:D:629:ASN:HD22	1:D:630:ARG:N	2.06	0.52
1:E:176:GLY:O	1:E:180:ASP:OD1	2.26	0.52
1:E:308:VAL:O	1:E:311:HIS:HB2	2.10	0.52
1:F:109:ILE:HD11	1:F:157:LYS:HZ2	1.72	0.52
2:O:28:THR:OG1	2:O:31:GLU:HB2	2.08	0.52
2:O:76:MSE:C	2:O:78:ASP:H	2.16	0.52
2:O:100:ILE:HB	2:O:136:VAL:HG23	1.91	0.52
2:P:121:VAL:C	2:P:123:GLN:H	2.17	0.52
2:S:136:VAL:HG23	2:S:136:VAL:O	2.08	0.52
2:T:94:LYS:HB3	2:T:94:LYS:HZ2	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:76:LEU:HD22	1:A:76:LEU:N	2.22	0.52
1:A:153:ILE:C	1:A:154:ILE:HD13	2.33	0.52
1:A:175:LYS:O	1:A:176:GLY:C	2.52	0.52
1:A:306:GLY:O	1:A:336:THR:HG23	2.09	0.52
1:B:137:PHE:O	1:B:139:SER:N	2.42	0.52
1:B:329:ARG:HD2	1:B:590:ASP:OD2	2.09	0.52
1:B:499:PRO:HD3	1:B:552:TRP:CH2	2.44	0.52
1:C:275:GLY:HA2	1:C:278:LYS:CG	2.39	0.52
1:C:558:ASP:O	1:C:560:LEU:N	2.42	0.52
1:C:786:GLU:O	1:C:789:ASN:HB3	2.08	0.52
1:D:172:GLU:CB	1:D:246:SER:HA	2.39	0.52
1:D:629:ASN:HD22	1:D:631:SER:N	1.96	0.52
1:E:131:ARG:HG3	1:E:243:LEU:HD22	1.90	0.52
1:E:175:LYS:O	1:E:176:GLY:C	2.53	0.52
1:E:254:ARG:HD2	1:E:254:ARG:H	1.73	0.52
1:E:412:GLU:C	1:E:414:LYS:H	2.16	0.52
1:F:205:SER:C	1:F:207:ASP:H	2.17	0.52
1:F:482:GLU:O	1:F:484:VAL:HG23	2.09	0.52
2:O:9:ILE:CD1	2:O:69:LEU:HD11	2.38	0.52
2:P:117:THR:OG1	2:P:119:GLU:HG2	2.08	0.52
2:S:28:THR:OG1	2:S:31:GLU:HB2	2.08	0.52
2:T:52:ILE:HG23	2:T:53:ASN:H	1.74	0.52
2:T:64:ASP:OD2	2:T:67:GLU:HG3	2.09	0.52
2:T:65:PHE:HD1	2:T:65:PHE:H	1.55	0.52
2:T:70:THR:O	2:T:70:THR:HG22	2.08	0.52
1:A:134:LYS:HG2	1:A:136:PRO:HD3	1.91	0.52
1:A:278:LYS:HB2	1:A:279:ILE:HD13	1.91	0.52
1:B:74:GLU:HB2	1:B:78:LYS:CB	2.38	0.52
1:B:671:ARG:HH12	1:B:677:GLY:HA3	1.73	0.52
1:C:127:SER:O	1:C:133:GLU:CD	2.47	0.52
1:C:153:ILE:C	1:C:154:ILE:HD13	2.34	0.52
1:D:254:ARG:HD2	1:D:254:ARG:H	1.74	0.52
1:D:278:LYS:HB2	1:D:279:ILE:HD13	1.92	0.52
1:D:329:ARG:HD2	1:D:590:ASP:OD2	2.10	0.52
1:D:597:ASN:HD21	1:D:601:GLU:CB	2.08	0.52
1:D:678:VAL:HG22	1:D:745:TYR:HE2	1.74	0.52
1:E:131:ARG:HB3	1:E:170:TYR:OH	2.09	0.52
1:E:271:LEU:HA	1:E:275:GLY:HA3	1.90	0.52
1:E:437:SER:C	1:E:439:ASN:H	2.17	0.52
1:F:173:ILE:HG23	1:F:174:GLY:H	1.75	0.52
1:F:218:LEU:C	1:F:220:LEU:H	2.15	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:335:ALA:O	1:F:339:ILE:HG13	2.08	0.52
1:F:405:LEU:HD12	1:F:405:LEU:N	2.24	0.52
2:R:129:ASP:OD2	2:R:140:GLU:OE2	2.28	0.52
2:T:28:THR:OG1	2:T:31:GLU:HB2	2.09	0.52
1:B:311:HIS:O	1:B:312:ALA:C	2.52	0.52
1:B:504:ILE:HD12	1:B:504:ILE:N	2.25	0.52
1:B:515:LYS:NZ	1:B:516:VAL:CG2	2.72	0.52
1:C:278:LYS:HB2	1:C:279:ILE:HD13	1.92	0.52
1:C:499:PRO:HD3	1:C:552:TRP:CH2	2.44	0.52
1:C:658:PRO:HD3	1:C:755:ARG:NH1	2.24	0.52
1:C:795:LYS:HA	1:C:798:ASP:OD2	2.09	0.52
1:D:137:PHE:O	1:D:139:SER:N	2.42	0.52
1:D:324:THR:HB	1:D:499:PRO:CA	2.39	0.52
1:D:482:GLU:O	1:D:484:VAL:HG23	2.10	0.52
1:D:747:ASN:O	1:D:750:GLN:HB2	2.09	0.52
1:D:794:GLN:NE2	1:D:795:LYS:N	2.57	0.52
1:E:165:GLN:HE21	1:E:251:PRO:CG	2.21	0.52
1:E:446:ILE:HG13	1:E:451:ASN:O	2.08	0.52
1:E:561:ASN:HA	1:E:564:VAL:HG22	1.91	0.52
1:F:403:LEU:HG	1:F:405:LEU:HD12	1.90	0.52
2:T:42:ASN:CG	2:T:42:ASN:O	2.53	0.52
2:T:129:ASP:OD2	2:T:140:GLU:OE2	2.27	0.52
1:A:176:GLY:O	1:A:180:ASP:OD1	2.27	0.52
1:A:412:GLU:C	1:A:414:LYS:H	2.16	0.52
1:A:529:VAL:HG21	2:O:109:MSE:HE1	1.91	0.52
1:C:75:THR:O	1:C:76:LEU:C	2.52	0.52
1:C:93:VAL:CG2	1:C:179:LEU:HD11	2.37	0.52
1:C:335:ALA:O	1:C:339:ILE:HG13	2.08	0.52
1:D:75:THR:O	1:D:76:LEU:C	2.52	0.52
1:D:165:GLN:NE2	1:D:251:PRO:HG2	2.23	0.52
1:D:271:LEU:HA	1:D:275:GLY:HA3	1.91	0.52
1:D:275:GLY:HA2	1:D:278:LYS:CD	2.38	0.52
1:D:462:ILE:HG12	1:D:463:THR:H	1.72	0.52
1:D:505:LYS:HD3	2:R:112:LEU:O	2.08	0.52
1:D:794:GLN:HE22	1:D:795:LYS:HG3	1.75	0.52
1:E:121:SER:O	1:E:123:GLU:OE2	2.28	0.52
1:E:413:LEU:HD23	1:E:413:LEU:N	2.24	0.52
1:E:629:ASN:ND2	1:E:629:ASN:C	2.64	0.52
1:F:275:GLY:HA2	1:F:278:LYS:CD	2.39	0.52
1:F:515:LYS:HZ3	1:F:516:VAL:N	2.08	0.52
1:F:795:LYS:HA	1:F:798:ASP:OD2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:31:GLU:O	2:P:35:VAL:HG23	2.10	0.52
2:Q:56:ASP:OD2	2:Q:60:ASN:C	2.52	0.52
2:Q:70:THR:O	2:Q:70:THR:HG22	2.09	0.52
2:R:9:ILE:HG23	2:R:69:LEU:HD21	1.91	0.52
2:R:70:THR:HG22	2:R:70:THR:O	2.08	0.52
2:S:100:ILE:HB	2:S:136:VAL:HG23	1.90	0.52
2:T:121:VAL:C	2:T:123:GLN:H	2.17	0.52
1:A:173:ILE:C	1:A:175:LYS:N	2.67	0.52
1:B:121:SER:O	1:B:123:GLU:OE2	2.28	0.52
1:B:437:SER:C	1:B:439:ASN:H	2.18	0.52
1:B:709:ASN:HB2	2:P:130:ILE:HG23	1.90	0.52
1:C:747:ASN:O	1:C:750:GLN:HB2	2.09	0.52
1:D:145:LYS:HB3	1:D:151:LYS:HB2	1.91	0.52
1:D:499:PRO:HD3	1:D:552:TRP:CH2	2.44	0.52
1:E:112:VAL:O	1:E:114:HIS:N	2.37	0.52
1:E:173:ILE:HD12	1:E:243:LEU:CD2	2.40	0.52
1:E:180:ASP:O	1:E:183:SER:N	2.33	0.52
1:E:278:LYS:HB2	1:E:279:ILE:HD13	1.91	0.52
1:E:713:SER:O	1:E:717:LYS:HG3	2.09	0.52
1:F:306:GLY:O	1:F:336:THR:HG23	2.09	0.52
1:F:709:ASN:HB2	2:T:130:ILE:HG23	1.91	0.52
2:O:70:THR:O	2:O:70:THR:HG22	2.08	0.52
2:Q:121:VAL:C	2:Q:123:GLN:H	2.17	0.52
2:R:31:GLU:O	2:R:35:VAL:HG23	2.10	0.52
2:S:24:ASP:OD1	2:S:25:GLY:N	2.41	0.52
2:S:42:ASN:CG	2:S:42:ASN:O	2.52	0.52
1:A:499:PRO:HD3	1:A:552:TRP:CH2	2.44	0.52
1:B:142:VAL:HG22	1:B:154:ILE:HD12	1.90	0.52
1:B:412:GLU:C	1:B:414:LYS:H	2.16	0.52
1:B:517:VAL:O	1:B:525:LYS:NZ	2.43	0.52
1:B:747:ASN:O	1:B:750:GLN:HB2	2.09	0.52
1:B:795:LYS:HA	1:B:798:ASP:OD2	2.10	0.52
1:C:175:LYS:O	1:C:176:GLY:C	2.53	0.52
1:C:218:LEU:HD21	1:C:225:ILE:CD1	2.40	0.52
1:D:173:ILE:HD12	1:D:243:LEU:CD2	2.39	0.52
1:D:558:ASP:O	1:D:560:LEU:N	2.42	0.52
1:D:615:ILE:CD1	1:D:645:TRP:HH2	2.16	0.52
1:E:558:ASP:O	1:E:560:LEU:N	2.43	0.52
1:E:597:ASN:OD1	1:E:599:GLU:HB2	2.10	0.52
1:E:671:ARG:HH12	1:E:677:GLY:HA3	1.72	0.52
1:F:115:LYS:HB3	1:F:115:LYS:HZ3	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:531:ASN:HA	1:F:534:ILE:HD12	1.92	0.52
1:F:667:LEU:HB3	2:T:14:GLU:OE2	2.09	0.52
2:O:9:ILE:HG23	2:O:69:LEU:HD21	1.92	0.52
2:O:13:LYS:HZ1	2:O:65:PHE:HB3	1.68	0.52
2:R:9:ILE:CD1	2:R:69:LEU:HD11	2.38	0.52
2:R:12:PHE:CE1	2:R:72:MSE:SE	3.13	0.52
2:S:64:ASP:OD2	2:S:67:GLU:HG3	2.10	0.52
2:S:76:MSE:C	2:S:78:ASP:H	2.17	0.52
2:T:9:ILE:HG23	2:T:69:LEU:HD21	1.92	0.52
1:A:658:PRO:HD3	1:A:755:ARG:NH1	2.25	0.52
1:B:713:SER:O	1:B:717:LYS:HG3	2.09	0.52
1:C:197:LYS:HD3	1:C:263:ASP:OD1	2.10	0.52
1:C:306:GLY:O	1:C:336:THR:HG23	2.09	0.52
1:D:197:LYS:HD3	1:D:263:ASP:OD1	2.10	0.52
1:D:405:LEU:HD12	1:D:405:LEU:N	2.24	0.52
1:D:795:LYS:HA	1:D:798:ASP:OD2	2.09	0.52
1:E:172:GLU:CB	1:E:246:SER:HA	2.40	0.52
1:E:173:ILE:O	1:E:174:GLY:C	2.53	0.52
1:E:205:SER:C	1:E:207:ASP:H	2.17	0.52
1:E:218:LEU:HD21	1:E:225:ILE:CD1	2.40	0.52
1:E:350:VAL:HG12	1:E:352:GLY:H	1.74	0.52
1:E:504:ILE:HD12	1:E:504:ILE:N	2.25	0.52
1:E:517:VAL:O	1:E:525:LYS:NZ	2.43	0.52
1:F:412:GLU:C	1:F:414:LYS:H	2.16	0.52
1:F:558:ASP:O	1:F:560:LEU:N	2.43	0.52
2:O:24:ASP:OD1	2:O:25:GLY:N	2.42	0.52
2:Q:42:ASN:CG	2:Q:42:ASN:O	2.53	0.52
2:S:65:PHE:HB2	2:S:66:PRO:CD	2.35	0.52
2:S:110:THR:HG22	2:S:114:GLU:O	2.10	0.52
1:A:131:ARG:HG3	1:A:243:LEU:HD22	1.92	0.52
1:A:169:VAL:CG2	1:A:246:SER:HB2	2.40	0.52
1:A:311:HIS:O	1:A:312:ALA:C	2.51	0.52
1:B:131:ARG:HB3	1:B:170:TYR:OH	2.09	0.52
1:B:405:LEU:HD13	1:B:453:VAL:CG2	2.34	0.52
1:B:531:ASN:HA	1:B:534:ILE:HD12	1.92	0.52
1:C:678:VAL:HG22	1:C:745:TYR:HE2	1.74	0.52
1:D:131:ARG:HG3	1:D:243:LEU:HD22	1.92	0.52
1:D:533:LEU:HD23	1:D:533:LEU:C	2.35	0.52
1:E:109:ILE:HD11	1:E:157:LYS:HZ2	1.73	0.52
1:E:404:LYS:O	1:E:405:LEU:C	2.51	0.52
1:E:499:PRO:HD3	1:E:552:TRP:CH2	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:709:ASN:HB2	2:S:130:ILE:HG23	1.91	0.52
1:E:795:LYS:HA	1:E:798:ASP:OD2	2.09	0.52
1:F:75:THR:O	1:F:76:LEU:C	2.52	0.52
1:F:165:GLN:NE2	1:F:251:PRO:HG2	2.23	0.52
1:F:175:LYS:O	1:F:176:GLY:C	2.52	0.52
1:F:197:LYS:HD3	1:F:263:ASP:OD1	2.09	0.52
2:O:64:ASP:OD2	2:O:67:GLU:HG3	2.09	0.52
2:Q:64:ASP:OD2	2:Q:67:GLU:HG3	2.09	0.52
1:A:135:VAL:O	1:A:135:VAL:HG22	2.10	0.52
1:A:173:ILE:HG23	1:A:174:GLY:H	1.74	0.52
1:A:218:LEU:HD21	1:A:225:ILE:CD1	2.40	0.52
1:A:271:LEU:HA	1:A:275:GLY:HA3	1.91	0.52
1:A:504:ILE:HD12	1:A:504:ILE:N	2.25	0.52
1:B:76:LEU:HD22	1:B:76:LEU:N	2.21	0.52
1:B:169:VAL:CG2	1:B:246:SER:HB2	2.40	0.52
1:B:173:ILE:HG23	1:B:174:GLY:H	1.74	0.52
1:B:533:LEU:HD23	1:B:533:LEU:C	2.34	0.52
1:C:165:GLN:NE2	1:C:251:PRO:HG2	2.24	0.52
1:C:217:LYS:HB2	1:C:236:GLU:HG3	1.92	0.52
1:D:217:LYS:HB2	1:D:236:GLU:CD	2.35	0.52
1:E:288:VAL:CG2	1:E:289:GLU:H	2.20	0.52
1:E:629:ASN:HD22	1:E:631:SER:N	1.98	0.52
1:F:121:SER:O	1:F:123:GLU:OE2	2.28	0.52
1:F:288:VAL:CG2	1:F:289:GLU:H	2.20	0.52
2:P:28:THR:CG2	2:P:30:LYS:HZ1	2.22	0.52
2:Q:31:GLU:O	2:Q:35:VAL:HG23	2.09	0.52
2:R:117:THR:OG1	2:R:119:GLU:HG2	2.10	0.52
2:S:9:ILE:HG23	2:S:69:LEU:HD21	1.92	0.52
2:S:52:ILE:HG23	2:S:53:ASN:H	1.74	0.52
1:A:217:LYS:HB2	1:A:236:GLU:CD	2.35	0.51
1:C:271:LEU:HA	1:C:275:GLY:HA3	1.91	0.51
1:C:515:LYS:HZ3	1:C:516:VAL:N	2.08	0.51
1:C:561:ASN:HA	1:C:564:VAL:HG22	1.91	0.51
1:D:173:ILE:HG13	1:D:242:SER:CB	2.37	0.51
1:D:175:LYS:O	1:D:176:GLY:C	2.53	0.51
1:D:413:LEU:HD23	1:D:413:LEU:N	2.24	0.51
1:E:403:LEU:HG	1:E:405:LEU:HD12	1.91	0.51
1:F:81:GLN:CD	1:F:156:ILE:HG21	2.35	0.51
1:F:137:PHE:O	1:F:139:SER:N	2.42	0.51
1:F:170:TYR:HA	1:F:173:ILE:HG22	1.92	0.51
1:F:217:LYS:HB2	1:F:236:GLU:CD	2.35	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:405:LEU:HD13	1:F:453:VAL:CG2	2.34	0.51
1:F:658:PRO:HD3	1:F:755:ARG:NH1	2.24	0.51
2:O:31:GLU:O	2:O:35:VAL:HG23	2.10	0.51
2:O:42:ASN:O	2:O:42:ASN:CG	2.52	0.51
2:O:52:ILE:HG23	2:O:53:ASN:H	1.74	0.51
2:P:146:THR:O	2:P:147:ALA:C	2.51	0.51
2:Q:28:THR:OG1	2:Q:31:GLU:HB2	2.09	0.51
1:A:170:TYR:HA	1:A:173:ILE:HG22	1.92	0.51
1:A:173:ILE:HG13	1:A:242:SER:CB	2.37	0.51
1:A:565:LYS:C	1:A:567:THR:N	2.68	0.51
1:A:597:ASN:OD1	1:A:599:GLU:HB2	2.10	0.51
1:B:175:LYS:O	1:B:176:GLY:C	2.53	0.51
1:B:629:ASN:ND2	1:B:629:ASN:C	2.63	0.51
1:B:667:LEU:HB3	2:P:14:GLU:OE2	2.10	0.51
1:C:95:GLU:O	1:C:99:GLU:HB2	2.10	0.51
1:C:172:GLU:CB	1:C:246:SER:HA	2.40	0.51
1:C:533:LEU:HD23	1:C:533:LEU:C	2.36	0.51
1:D:127:SER:O	1:D:133:GLU:CD	2.48	0.51
1:E:112:VAL:CG1	1:E:113:GLU:H	2.07	0.51
1:E:170:TYR:HA	1:E:173:ILE:HG22	1.93	0.51
1:F:78:LYS:HG3	1:F:79:ILE:N	2.26	0.51
1:F:413:LEU:HD23	1:F:413:LEU:N	2.24	0.51
2:Q:129:ASP:OD2	2:Q:140:GLU:OE2	2.28	0.51
2:R:52:ILE:HG23	2:R:53:ASN:H	1.74	0.51
2:T:31:GLU:O	2:T:35:VAL:HG23	2.10	0.51
1:A:127:SER:O	1:A:133:GLU:CD	2.48	0.51
1:A:515:LYS:NZ	1:A:516:VAL:CG2	2.74	0.51
1:B:165:GLN:NE2	1:B:252:ASP:HB3	2.26	0.51
1:B:170:TYR:HA	1:B:173:ILE:HG22	1.92	0.51
1:B:173:ILE:HG23	1:B:174:GLY:N	2.25	0.51
1:B:197:LYS:HD3	1:B:263:ASP:OD1	2.09	0.51
1:B:218:LEU:HD21	1:B:225:ILE:CD1	2.41	0.51
1:B:288:VAL:CG2	1:B:289:GLU:H	2.20	0.51
1:B:513:TRP:CZ3	1:B:517:VAL:HG11	2.46	0.51
1:C:134:LYS:HG2	1:C:136:PRO:HD3	1.91	0.51
1:C:794:GLN:HE22	1:C:795:LYS:HG3	1.75	0.51
1:E:405:LEU:HD12	1:E:405:LEU:N	2.24	0.51
1:E:636:ALA:O	1:E:640:LYS:HA	2.09	0.51
1:F:145:LYS:HB3	1:F:151:LYS:HB2	1.92	0.51
1:F:238:GLN:C	1:F:240:ALA:N	2.63	0.51
1:F:308:VAL:O	1:F:311:HIS:HB2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:64:ASP:OD2	2:P:67:GLU:HG3	2.09	0.51
2:P:97:ASN:HD22	2:P:97:ASN:H	1.58	0.51
2:S:31:GLU:O	2:S:35:VAL:HG23	2.10	0.51
2:S:37:ARG:HA	2:S:41:GLN:O	2.10	0.51
2:T:65:PHE:HB2	2:T:66:PRO:CD	2.35	0.51
1:A:197:LYS:HD3	1:A:263:ASP:OD1	2.10	0.51
1:A:337:ASN:C	1:A:339:ILE:N	2.67	0.51
1:A:517:VAL:O	1:A:525:LYS:NZ	2.44	0.51
1:B:145:LYS:HB3	1:B:151:LYS:HB2	1.92	0.51
1:B:196:ILE:HG23	1:B:199:LEU:HD12	1.91	0.51
1:B:308:VAL:O	1:B:311:HIS:HB2	2.10	0.51
1:B:337:ASN:C	1:B:339:ILE:N	2.67	0.51
1:B:483:GLY:O	1:B:484:VAL:HG22	2.10	0.51
1:C:145:LYS:HB3	1:C:151:LYS:HB2	1.91	0.51
1:C:515:LYS:NZ	1:C:516:VAL:CG2	2.74	0.51
1:C:724:ARG:O	1:C:727:GLN:HB2	2.10	0.51
1:D:135:VAL:O	1:D:135:VAL:HG22	2.11	0.51
1:D:630:ARG:CZ	2:R:83:GLU:CG	2.87	0.51
1:E:75:THR:O	1:E:76:LEU:C	2.52	0.51
1:E:135:VAL:HG22	1:E:135:VAL:O	2.11	0.51
1:E:329:ARG:HD2	1:E:590:ASP:OD2	2.10	0.51
1:F:71:PHE:O	1:F:78:LYS:NZ	2.43	0.51
1:F:671:ARG:HH12	1:F:677:GLY:HA3	1.74	0.51
2:P:9:ILE:HG23	2:P:69:LEU:HD21	1.92	0.51
2:S:70:THR:O	2:S:70:THR:HG22	2.09	0.51
1:A:684:ASP:C	1:A:686:ASP:N	2.69	0.51
1:B:81:GLN:CD	1:B:156:ILE:HG21	2.35	0.51
1:B:173:ILE:O	1:B:174:GLY:C	2.53	0.51
1:B:387:ASN:O	1:B:390:SER:HB2	2.10	0.51
1:C:121:SER:O	1:C:123:GLU:OE2	2.28	0.51
1:C:173:ILE:HD12	1:C:243:LEU:CD2	2.40	0.51
1:C:217:LYS:HB2	1:C:236:GLU:CD	2.35	0.51
1:C:308:VAL:O	1:C:311:HIS:HB2	2.10	0.51
1:D:107:THR:HG21	1:D:115:LYS:CD	2.37	0.51
1:D:173:ILE:C	1:D:175:LYS:N	2.66	0.51
1:D:337:ASN:C	1:D:339:ILE:N	2.67	0.51
1:D:443:GLU:CG	1:D:458:LYS:HZ2	2.23	0.51
1:D:597:ASN:OD1	1:D:599:GLU:HB2	2.10	0.51
1:E:165:GLN:NE2	1:E:251:PRO:HG2	2.24	0.51
1:E:515:LYS:HZ3	1:E:516:VAL:CG2	2.24	0.51
1:F:311:HIS:O	1:F:312:ALA:C	2.54	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:324:THR:HB	1:F:499:PRO:CA	2.39	0.51
1:F:597:ASN:OD1	1:F:599:GLU:HB2	2.11	0.51
2:O:110:THR:HG22	2:O:114:GLU:O	2.11	0.51
2:P:43:PRO:HG3	2:P:48:LEU:HD13	1.91	0.51
2:R:94:LYS:HB3	2:R:94:LYS:HZ3	1.76	0.51
2:S:9:ILE:CD1	2:S:69:LEU:HD11	2.38	0.51
1:A:165:GLN:NE2	1:A:252:ASP:HB3	2.26	0.51
1:B:127:SER:O	1:B:133:GLU:CD	2.48	0.51
1:C:135:VAL:O	1:C:135:VAL:HG22	2.10	0.51
1:C:482:GLU:O	1:C:484:VAL:HG23	2.11	0.51
1:C:531:ASN:HA	1:C:534:ILE:HD12	1.92	0.51
1:D:170:TYR:HA	1:D:173:ILE:HG22	1.93	0.51
1:D:214:PHE:CD1	1:D:218:LEU:HD23	2.46	0.51
1:D:662:GLU:OE2	1:D:755:ARG:NH2	2.38	0.51
1:D:713:SER:O	1:D:717:LYS:HG3	2.10	0.51
1:E:156:ILE:HD12	1:E:156:ILE:N	2.26	0.51
1:E:169:VAL:CG2	1:E:246:SER:HB2	2.40	0.51
1:E:173:ILE:HG23	1:E:174:GLY:H	1.75	0.51
1:E:275:GLY:HA2	1:E:278:LYS:CG	2.39	0.51
1:E:513:TRP:CZ3	1:E:517:VAL:HG11	2.46	0.51
1:F:173:ILE:HG23	1:F:174:GLY:N	2.26	0.51
1:F:483:GLY:O	1:F:484:VAL:HG22	2.11	0.51
1:F:497:LEU:CD1	1:F:556:MET:HG2	2.40	0.51
1:F:517:VAL:O	1:F:525:LYS:NZ	2.44	0.51
2:S:65:PHE:HD1	2:S:65:PHE:H	1.56	0.51
1:B:278:LYS:HB2	1:B:279:ILE:HD13	1.92	0.51
1:B:324:THR:HB	1:B:499:PRO:CA	2.37	0.51
1:B:630:ARG:NH1	1:B:630:ARG:HG3	2.26	0.51
1:C:165:GLN:C	1:C:167:LYS:N	2.69	0.51
1:C:180:ASP:CG	1:C:181:ILE:H	2.18	0.51
1:C:218:LEU:C	1:C:220:LEU:H	2.15	0.51
1:D:81:GLN:CD	1:D:156:ILE:HG21	2.35	0.51
1:E:197:LYS:HB3	1:E:197:LYS:NZ	2.26	0.51
1:E:324:THR:HB	1:E:499:PRO:CA	2.39	0.51
1:F:134:LYS:HG2	1:F:136:PRO:HD3	1.92	0.51
1:F:338:LEU:HD21	1:F:409:ARG:CZ	2.41	0.51
1:F:529:VAL:HG21	2:T:109:MSE:HE1	1.92	0.51
2:O:121:VAL:C	2:O:123:GLN:H	2.18	0.51
2:Q:110:THR:HG22	2:Q:114:GLU:O	2.11	0.51
2:R:64:ASP:OD2	2:R:67:GLU:HG3	2.09	0.51
2:S:13:LYS:O	2:S:14:GLU:C	2.54	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:13:LYS:HZ3	2:S:65:PHE:HB3	1.69	0.51
1:A:797:ILE:HG13	1:A:797:ILE:O	2.11	0.51
1:B:95:GLU:O	1:B:99:GLU:HB2	2.11	0.51
1:C:81:GLN:CD	1:C:156:ILE:HG21	2.36	0.51
1:C:288:VAL:CG2	1:C:289:GLU:H	2.20	0.51
1:C:565:LYS:C	1:C:567:THR:N	2.69	0.51
1:D:387:ASN:O	1:D:390:SER:HB2	2.11	0.51
1:D:504:ILE:HD12	1:D:504:ILE:N	2.25	0.51
1:D:517:VAL:HB	1:D:525:LYS:HZ1	1.75	0.51
1:E:387:ASN:O	1:E:390:SER:HB2	2.10	0.51
1:E:667:LEU:HB3	2:S:14:GLU:OE2	2.10	0.51
1:F:131:ARG:HG3	1:F:243:LEU:HD22	1.93	0.51
1:F:173:ILE:O	1:F:174:GLY:C	2.54	0.51
1:F:323:ASN:C	1:F:324:THR:CG2	2.84	0.51
2:P:66:PRO:O	2:P:67:GLU:C	2.54	0.51
2:R:66:PRO:O	2:R:67:GLU:C	2.54	0.51
2:T:66:PRO:O	2:T:67:GLU:C	2.54	0.51
1:A:81:GLN:CD	1:A:156:ILE:HG21	2.35	0.51
1:A:173:ILE:HG23	1:A:174:GLY:N	2.25	0.51
1:A:218:LEU:C	1:A:220:LEU:H	2.16	0.51
1:A:318:ILE:HD12	1:A:318:ILE:N	2.24	0.51
1:B:305:SER:HG	1:B:307:LEU:HD13	1.72	0.51
1:C:107:THR:HG21	1:C:115:LYS:CD	2.37	0.51
1:C:408:LEU:HD12	1:C:408:LEU:N	2.03	0.51
1:C:797:ILE:O	1:C:797:ILE:HG13	2.11	0.51
1:D:165:GLN:NE2	1:D:252:ASP:HB3	2.26	0.51
1:D:697:ILE:C	1:D:699:GLY:N	2.67	0.51
1:E:482:GLU:O	1:E:484:VAL:HG23	2.10	0.51
1:E:615:ILE:CD1	1:E:645:TRP:HH2	2.17	0.51
1:F:180:ASP:CG	1:F:181:ILE:H	2.19	0.51
1:F:214:PHE:CD1	1:F:218:LEU:HD23	2.46	0.51
1:F:271:LEU:HA	1:F:275:GLY:HA3	1.92	0.51
1:F:327:LEU:HD12	1:F:327:LEU:N	2.26	0.51
1:F:443:GLU:HG3	1:F:458:LYS:HZ2	1.76	0.51
1:F:513:TRP:CZ3	1:F:517:VAL:HG11	2.46	0.51
1:F:561:ASN:HA	1:F:564:VAL:HG22	1.92	0.51
1:F:715:GLU:OE1	1:F:767:GLN:NE2	2.44	0.51
2:Q:37:ARG:HA	2:Q:41:GLN:O	2.11	0.51
2:S:121:VAL:C	2:S:123:GLN:H	2.17	0.51
2:T:136:VAL:HG23	2:T:136:VAL:O	2.10	0.51
1:A:121:SER:O	1:A:123:GLU:OE2	2.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:531:ASN:HA	1:A:534:ILE:HD12	1.93	0.51
1:B:218:LEU:C	1:B:220:LEU:H	2.15	0.51
1:B:482:GLU:O	1:B:484:VAL:HG23	2.10	0.51
1:B:497:LEU:CD1	1:B:556:MET:HG2	2.40	0.51
1:B:630:ARG:CZ	2:P:83:GLU:CG	2.87	0.51
1:C:170:TYR:HA	1:C:173:ILE:HG22	1.93	0.51
1:C:173:ILE:O	1:C:174:GLY:C	2.54	0.51
1:C:517:VAL:O	1:C:525:LYS:NZ	2.44	0.51
1:D:97:TYR:HE1	1:D:178:SER:CB	2.24	0.51
1:D:121:SER:O	1:D:123:GLU:OE2	2.28	0.51
1:D:664:ILE:HG21	2:R:15:ALA:HB2	1.93	0.51
1:E:78:LYS:HG3	1:E:79:ILE:N	2.26	0.51
1:E:173:ILE:HG23	1:E:174:GLY:N	2.26	0.51
1:E:180:ASP:CG	1:E:181:ILE:H	2.19	0.51
1:E:376:GLN:HB3	1:E:379:ALA:HB3	1.94	0.51
1:E:515:LYS:NZ	1:E:516:VAL:CG2	2.74	0.51
1:E:692:GLU:OE1	2:S:21:LYS:NZ	2.43	0.51
1:F:217:LYS:HB2	1:F:236:GLU:HG3	1.93	0.51
1:F:552:TRP:O	1:F:553:GLN:C	2.54	0.51
1:F:794:GLN:HE22	1:F:795:LYS:HG3	1.75	0.51
2:Q:66:PRO:O	2:Q:67:GLU:C	2.54	0.51
2:Q:146:THR:O	2:Q:147:ALA:C	2.51	0.51
2:R:121:VAL:C	2:R:123:GLN:H	2.16	0.51
2:T:110:THR:HG22	2:T:114:GLU:O	2.11	0.51
1:A:71:PHE:O	1:A:78:LYS:NZ	2.43	0.50
1:A:197:LYS:HB3	1:A:197:LYS:NZ	2.25	0.50
1:A:214:PHE:CD1	1:A:218:LEU:HD23	2.46	0.50
1:A:323:ASN:C	1:A:324:THR:CG2	2.84	0.50
1:B:173:ILE:C	1:B:175:LYS:N	2.66	0.50
1:B:180:ASP:O	1:B:182:ILE:N	2.44	0.50
1:C:148:GLU:HG3	1:C:149:THR:H	1.76	0.50
1:C:173:ILE:HG23	1:C:174:GLY:N	2.25	0.50
1:C:387:ASN:O	1:C:390:SER:HB2	2.11	0.50
1:C:513:TRP:CZ3	1:C:517:VAL:HG11	2.47	0.50
1:D:71:PHE:O	1:D:78:LYS:NZ	2.42	0.50
1:D:169:VAL:CG2	1:D:246:SER:HB2	2.40	0.50
1:E:335:ALA:O	1:E:339:ILE:HG13	2.10	0.50
1:E:508:ILE:HG23	1:E:536:TYR:CE2	2.47	0.50
1:F:95:GLU:O	1:F:99:GLU:HB2	2.12	0.50
1:F:218:LEU:HD21	1:F:225:ILE:CD1	2.41	0.50
1:F:504:ILE:HD12	1:F:504:ILE:N	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:635:ILE:N	1:F:635:ILE:CD1	2.72	0.50
1:F:662:GLU:OE2	1:F:755:ARG:NH2	2.38	0.50
2:P:42:ASN:CG	2:P:42:ASN:O	2.53	0.50
2:S:62:THR:N	2:S:62:THR:HG22	2.26	0.50
1:A:107:THR:HG21	1:A:115:LYS:CD	2.37	0.50
1:A:275:GLY:CA	1:A:278:LYS:HE3	2.37	0.50
1:A:513:TRP:CZ3	1:A:517:VAL:HG11	2.46	0.50
1:A:629:ASN:HD22	1:A:631:SER:N	1.99	0.50
1:B:197:LYS:HB3	1:B:197:LYS:NZ	2.26	0.50
1:B:404:LYS:O	1:B:405:LEU:C	2.52	0.50
1:B:501:LEU:HD22	2:P:112:LEU:CD2	2.26	0.50
1:C:169:VAL:CG2	1:C:246:SER:HB2	2.40	0.50
1:C:323:ASN:C	1:C:324:THR:CG2	2.84	0.50
1:C:504:ILE:HD12	1:C:504:ILE:N	2.25	0.50
1:D:349:ASN:HD22	1:D:350:VAL:N	2.08	0.50
1:D:515:LYS:NZ	1:D:516:VAL:CG2	2.74	0.50
1:D:565:LYS:C	1:D:567:THR:N	2.68	0.50
1:D:797:ILE:HG13	1:D:797:ILE:O	2.12	0.50
1:E:180:ASP:O	1:E:182:ILE:N	2.45	0.50
1:E:533:LEU:HD23	1:E:533:LEU:C	2.36	0.50
1:F:408:LEU:HD12	1:F:408:LEU:N	2.04	0.50
2:P:13:LYS:O	2:P:14:GLU:C	2.54	0.50
2:Q:56:ASP:CG	2:Q:60:ASN:HA	2.34	0.50
2:R:24:ASP:CG	2:R:25:GLY:H	2.19	0.50
2:S:44:THR:OG1	2:S:47:GLU:HB2	2.12	0.50
2:S:66:PRO:O	2:S:67:GLU:C	2.54	0.50
2:T:58:ASP:HB2	2:T:62:THR:O	2.11	0.50
1:A:327:LEU:HD12	1:A:327:LEU:N	2.25	0.50
1:A:497:LEU:CD1	1:A:556:MET:HG2	2.40	0.50
1:A:552:TRP:O	1:A:553:GLN:C	2.53	0.50
1:B:173:ILE:HD12	1:B:243:LEU:CD2	2.41	0.50
1:B:217:LYS:HB2	1:B:236:GLU:HG3	1.93	0.50
1:B:515:LYS:HZ3	1:B:516:VAL:HG23	1.76	0.50
1:C:349:ASN:HD22	1:C:350:VAL:N	2.08	0.50
1:C:700:TYR:HD1	1:C:728:ALA:CA	2.25	0.50
1:D:189:ASP:HB3	1:D:190:PRO:HD2	1.94	0.50
1:D:552:TRP:O	1:D:553:GLN:C	2.53	0.50
1:E:214:PHE:CD1	1:E:218:LEU:HD23	2.47	0.50
1:E:431:LYS:O	1:E:432:TYR:HD2	1.94	0.50
2:T:37:ARG:HA	2:T:41:GLN:O	2.12	0.50
1:A:97:TYR:HE1	1:A:178:SER:CB	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:302:LEU:HD22	1:A:602:PHE:HE1	1.77	0.50
1:B:217:LYS:HB2	1:B:236:GLU:CD	2.35	0.50
1:B:327:LEU:N	1:B:327:LEU:HD12	2.25	0.50
1:C:154:ILE:CG1	1:C:171:TYR:CE1	2.87	0.50
1:C:597:ASN:OD1	1:C:599:GLU:HB2	2.11	0.50
1:C:713:SER:O	1:C:717:LYS:HG3	2.11	0.50
1:D:95:GLU:O	1:D:99:GLU:HB2	2.10	0.50
1:D:288:VAL:CG2	1:D:289:GLU:H	2.20	0.50
1:D:513:TRP:CZ3	1:D:517:VAL:HG11	2.46	0.50
1:D:684:ASP:C	1:D:686:ASP:N	2.70	0.50
1:D:715:GLU:OE1	1:D:767:GLN:NE2	2.44	0.50
1:E:93:VAL:CG2	1:E:179:LEU:HD11	2.37	0.50
1:E:323:ASN:C	1:E:324:THR:CG2	2.84	0.50
1:E:531:ASN:HA	1:E:534:ILE:HD12	1.94	0.50
1:F:351:HIS:HB2	1:F:386:GLU:HG2	1.94	0.50
1:F:397:GLU:HA	1:F:480:ASN:CB	2.42	0.50
1:F:431:LYS:O	1:F:432:TYR:HD2	1.94	0.50
1:F:533:LEU:HD23	1:F:533:LEU:C	2.36	0.50
2:O:13:LYS:O	2:O:14:GLU:C	2.53	0.50
2:P:101:SER:OG	2:P:104:GLU:HG2	2.12	0.50
2:Q:52:ILE:HG23	2:Q:53:ASN:H	1.74	0.50
1:A:376:GLN:HB3	1:A:379:ALA:HB3	1.94	0.50
1:A:483:GLY:O	1:A:484:VAL:HG22	2.11	0.50
1:A:630:ARG:CZ	2:O:83:GLU:CG	2.84	0.50
1:B:107:THR:HG21	1:B:115:LYS:CD	2.37	0.50
1:B:131:ARG:HG3	1:B:243:LEU:HD22	1.92	0.50
1:B:135:VAL:HG22	1:B:135:VAL:O	2.12	0.50
1:B:323:ASN:C	1:B:324:THR:CG2	2.84	0.50
1:B:505:LYS:HD3	2:P:112:LEU:O	2.11	0.50
1:B:678:VAL:HG22	1:B:745:TYR:HE2	1.76	0.50
1:C:165:GLN:NE2	1:C:252:ASP:HB3	2.26	0.50
1:C:173:ILE:C	1:C:175:LYS:N	2.67	0.50
1:C:376:GLN:HB3	1:C:379:ALA:HB3	1.93	0.50
1:D:134:LYS:HG2	1:D:136:PRO:HD3	1.92	0.50
1:D:217:LYS:HB2	1:D:236:GLU:HG3	1.94	0.50
1:D:308:VAL:O	1:D:311:HIS:HB2	2.11	0.50
1:D:327:LEU:HD12	1:D:327:LEU:N	2.26	0.50
1:D:351:HIS:HB2	1:D:386:GLU:HG2	1.94	0.50
1:E:197:LYS:HD3	1:E:263:ASP:OD1	2.10	0.50
1:E:403:LEU:HD22	1:E:474:ILE:HG21	1.94	0.50
1:E:630:ARG:CZ	2:S:83:GLU:CG	2.85	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:630:ARG:NH1	1:E:630:ARG:HG3	2.26	0.50
1:E:678:VAL:HG22	1:E:745:TYR:HE2	1.77	0.50
1:F:165:GLN:NE2	1:F:252:ASP:HB3	2.26	0.50
1:A:112:VAL:HG12	1:A:113:GLU:HG3	1.94	0.50
1:A:165:GLN:NE2	1:A:251:PRO:HG2	2.24	0.50
1:A:187:SER:C	1:A:188:LEU:O	2.44	0.50
1:A:356:ASP:OD2	1:A:356:ASP:N	2.44	0.50
1:A:431:LYS:O	1:A:432:TYR:HD2	1.94	0.50
1:A:443:GLU:CG	1:A:458:LYS:HZ2	2.24	0.50
1:A:735:VAL:O	1:A:741:ILE:HD13	2.12	0.50
1:B:97:TYR:HE1	1:B:178:SER:CB	2.24	0.50
1:B:376:GLN:HB3	1:B:379:ALA:HB3	1.94	0.50
1:C:156:ILE:N	1:C:156:ILE:HD12	2.26	0.50
1:C:180:ASP:O	1:C:182:ILE:N	2.45	0.50
1:D:443:GLU:HG3	1:D:458:LYS:HZ2	1.77	0.50
1:E:351:HIS:HB2	1:E:386:GLU:HG2	1.94	0.50
1:E:684:ASP:C	1:E:686:ASP:N	2.68	0.50
1:F:349:ASN:HD22	1:F:350:VAL:N	2.09	0.50
1:F:376:GLN:HB3	1:F:379:ALA:HB3	1.94	0.50
1:F:443:GLU:HG3	1:F:458:LYS:CG	2.42	0.50
1:F:678:VAL:HG22	1:F:745:TYR:HE2	1.76	0.50
2:P:24:ASP:CG	2:P:25:GLY:H	2.20	0.50
2:R:24:ASP:OD1	2:R:25:GLY:N	2.40	0.50
1:A:349:ASN:HD22	1:A:350:VAL:N	2.09	0.50
1:A:351:HIS:HB2	1:A:386:GLU:HG2	1.94	0.50
1:B:78:LYS:HG3	1:B:79:ILE:N	2.26	0.50
1:B:165:GLN:NE2	1:B:251:PRO:HG2	2.23	0.50
1:B:214:PHE:CD1	1:B:218:LEU:HD23	2.47	0.50
1:B:684:ASP:C	1:B:686:ASP:N	2.69	0.50
1:C:173:ILE:HG13	1:C:242:SER:CB	2.38	0.50
1:C:197:LYS:HB3	1:C:197:LYS:NZ	2.26	0.50
1:C:214:PHE:CD1	1:C:218:LEU:HD23	2.46	0.50
1:C:529:VAL:HG21	2:Q:109:MSE:HE1	1.93	0.50
1:C:715:GLU:OE1	1:C:767:GLN:NE2	2.45	0.50
1:D:180:ASP:CG	1:D:181:ILE:H	2.19	0.50
1:E:145:LYS:HB3	1:E:151:LYS:HB2	1.93	0.50
1:E:217:LYS:HB2	1:E:236:GLU:HG3	1.94	0.50
1:E:462:ILE:CD1	1:E:466:GLY:HA2	2.42	0.50
1:E:552:TRP:O	1:E:553:GLN:C	2.54	0.50
2:O:37:ARG:HA	2:O:41:GLN:O	2.11	0.50
2:O:66:PRO:O	2:O:67:GLU:C	2.54	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:49:GLN:O	2:Q:51:MSE:N	2.45	0.50
2:T:5:THR:HG23	2:T:8:GLN:H	1.77	0.50
2:T:56:ASP:CG	2:T:60:ASN:CG	2.80	0.50
1:A:180:ASP:CG	1:A:181:ILE:H	2.18	0.50
1:B:173:ILE:HG13	1:B:242:SER:CB	2.37	0.50
1:B:443:GLU:CG	1:B:458:LYS:HZ2	2.24	0.50
1:C:189:ASP:HB3	1:C:190:PRO:HD2	1.94	0.50
1:C:218:LEU:HG	1:C:218:LEU:O	2.12	0.50
1:C:630:ARG:CZ	2:Q:83:GLU:CG	2.87	0.50
1:D:529:VAL:HG21	2:R:109:MSE:HE1	1.93	0.50
1:E:281:GLU:C	1:E:283:LEU:N	2.70	0.50
1:F:112:VAL:CG1	1:F:113:GLU:H	2.07	0.50
1:F:156:ILE:N	1:F:156:ILE:HD12	2.27	0.50
2:Q:24:ASP:CG	2:Q:25:GLY:H	2.20	0.50
2:Q:44:THR:OG1	2:Q:47:GLU:HB2	2.12	0.50
2:R:42:ASN:CG	2:R:42:ASN:O	2.53	0.50
2:T:64:ASP:H	2:T:67:GLU:HB2	1.77	0.50
1:A:78:LYS:HG3	1:A:79:ILE:N	2.26	0.50
1:A:106:PHE:CZ	1:A:171:TYR:OH	2.63	0.50
1:A:165:GLN:C	1:A:167:LYS:N	2.69	0.50
1:A:217:LYS:HB2	1:A:236:GLU:HG3	1.94	0.50
1:A:288:VAL:CG2	1:A:289:GLU:H	2.21	0.50
1:A:664:ILE:HG21	2:O:15:ALA:HB2	1.94	0.50
1:B:112:VAL:O	1:B:114:HIS:N	2.38	0.50
1:B:281:GLU:O	1:B:285:LYS:HG2	2.12	0.50
1:B:724:ARG:HG3	1:B:724:ARG:NH1	2.27	0.50
1:D:156:ILE:HD12	1:D:156:ILE:N	2.26	0.50
1:E:95:GLU:O	1:E:99:GLU:HB2	2.12	0.50
1:E:244:ALA:HB3	1:E:268:MET:HE3	1.94	0.50
1:E:515:LYS:HZ3	1:E:516:VAL:N	2.10	0.50
1:E:529:VAL:HG21	2:S:109:MSE:HE1	1.92	0.50
1:F:165:GLN:C	1:F:167:LYS:N	2.69	0.50
1:F:180:ASP:O	1:F:182:ILE:N	2.45	0.50
1:F:238:GLN:C	1:F:240:ALA:H	2.20	0.50
1:F:716:LYS:O	1:F:720:ILE:HG22	2.12	0.50
2:O:5:THR:HG23	2:O:8:GLN:H	1.76	0.50
2:P:37:ARG:HA	2:P:41:GLN:O	2.12	0.50
2:S:56:ASP:CG	2:S:60:ASN:HA	2.36	0.50
2:T:13:LYS:O	2:T:14:GLU:C	2.55	0.50
2:T:97:ASN:HD22	2:T:97:ASN:H	1.60	0.50
1:A:180:ASP:O	1:A:183:SER:N	2.33	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:180:ASP:O	1:A:182:ILE:N	2.45	0.49
1:A:281:GLU:C	1:A:283:LEU:N	2.69	0.49
1:A:387:ASN:O	1:A:390:SER:HB2	2.11	0.49
1:B:172:GLU:CB	1:B:246:SER:HA	2.40	0.49
1:B:338:LEU:HD21	1:B:409:ARG:CZ	2.41	0.49
1:B:397:GLU:HA	1:B:480:ASN:CB	2.42	0.49
1:B:443:GLU:HG3	1:B:458:LYS:CG	2.42	0.49
1:C:318:ILE:HD12	1:C:318:ILE:N	2.25	0.49
1:C:337:ASN:C	1:C:339:ILE:N	2.67	0.49
1:C:356:ASP:OD2	1:C:356:ASP:N	2.45	0.49
1:D:187:SER:C	1:D:188:LEU:O	2.44	0.49
1:D:446:ILE:HD11	1:D:451:ASN:CB	2.40	0.49
1:D:671:ARG:HH12	1:D:677:GLY:HA3	1.73	0.49
1:F:462:ILE:CD1	1:F:466:GLY:HA2	2.42	0.49
1:F:664:ILE:HG21	2:T:15:ALA:HB2	1.94	0.49
2:P:110:THR:HG22	2:P:114:GLU:O	2.12	0.49
2:R:37:ARG:HA	2:R:41:GLN:O	2.12	0.49
2:S:24:ASP:CG	2:S:25:GLY:H	2.19	0.49
2:T:49:GLN:O	2:T:51:MSE:N	2.45	0.49
1:A:106:PHE:HA	1:A:154:ILE:O	2.11	0.49
1:A:189:ASP:HB3	1:A:190:PRO:HD2	1.94	0.49
1:A:323:ASN:O	1:A:324:THR:HG22	2.13	0.49
1:A:338:LEU:HD21	1:A:409:ARG:CZ	2.42	0.49
1:A:508:ILE:HG23	1:A:536:TYR:CE2	2.47	0.49
1:A:692:GLU:OE2	1:A:692:GLU:HA	2.12	0.49
1:A:706:ASN:O	2:O:130:ILE:HG23	2.13	0.49
1:B:156:ILE:HD12	1:B:156:ILE:N	2.27	0.49
1:B:431:LYS:O	1:B:432:TYR:HD2	1.94	0.49
1:B:735:VAL:O	1:B:741:ILE:HD13	2.13	0.49
1:C:71:PHE:O	1:C:78:LYS:NZ	2.44	0.49
1:C:106:PHE:HA	1:C:154:ILE:O	2.12	0.49
1:C:431:LYS:O	1:C:432:TYR:HD2	1.94	0.49
1:C:483:GLY:O	1:C:484:VAL:HG22	2.11	0.49
1:D:281:GLU:C	1:D:283:LEU:N	2.69	0.49
1:D:431:LYS:O	1:D:432:TYR:HD2	1.94	0.49
1:D:517:VAL:O	1:D:525:LYS:NZ	2.45	0.49
1:D:581:GLN:HB3	1:D:627:TYR:CE1	2.47	0.49
1:E:165:GLN:NE2	1:E:252:ASP:HB3	2.25	0.49
1:E:338:LEU:HD21	1:E:409:ARG:CZ	2.42	0.49
1:E:735:VAL:O	1:E:741:ILE:HD13	2.12	0.49
1:E:742:ALA:HB1	1:E:744:GLU:OE1	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:169:VAL:CG2	1:F:246:SER:HB2	2.42	0.49
1:F:437:SER:O	1:F:439:ASN:N	2.45	0.49
2:R:13:LYS:HZ1	2:R:65:PHE:HB3	1.67	0.49
2:R:61:GLY:C	2:R:62:THR:HG22	2.36	0.49
2:T:101:SER:OG	2:T:104:GLU:HG2	2.12	0.49
1:A:678:VAL:HG22	1:A:745:TYR:HE2	1.76	0.49
1:B:148:GLU:HG3	1:B:149:THR:H	1.77	0.49
1:B:217:LYS:HB3	1:B:217:LYS:NZ	2.24	0.49
1:B:351:HIS:HB2	1:B:386:GLU:HG2	1.94	0.49
1:B:797:ILE:HG13	1:B:797:ILE:O	2.12	0.49
1:C:164:GLU:HG2	1:C:166:SER:HB3	1.94	0.49
1:C:238:GLN:C	1:C:240:ALA:H	2.20	0.49
1:C:281:GLU:C	1:C:283:LEU:N	2.70	0.49
1:C:351:HIS:HB2	1:C:386:GLU:HG2	1.94	0.49
1:D:165:GLN:C	1:D:167:LYS:N	2.70	0.49
1:D:483:GLY:O	1:D:484:VAL:HG22	2.11	0.49
1:E:327:LEU:N	1:E:327:LEU:HD12	2.27	0.49
1:E:397:GLU:HA	1:E:480:ASN:CB	2.42	0.49
1:E:797:ILE:O	1:E:797:ILE:HG13	2.11	0.49
1:F:148:GLU:HG3	1:F:149:THR:H	1.77	0.49
1:F:164:GLU:HG2	1:F:166:SER:HB3	1.94	0.49
1:F:797:ILE:O	1:F:797:ILE:HG13	2.11	0.49
2:P:24:ASP:OD1	2:P:25:GLY:N	2.42	0.49
2:Q:64:ASP:H	2:Q:67:GLU:HB2	1.77	0.49
2:R:44:THR:OG1	2:R:47:GLU:HB2	2.12	0.49
2:S:64:ASP:H	2:S:67:GLU:HB2	1.77	0.49
2:S:126:ARG:HG3	2:S:126:ARG:HH21	1.77	0.49
1:A:355:SER:HB2	1:A:371:SER:HA	1.94	0.49
1:A:403:LEU:HD22	1:A:474:ILE:HG21	1.95	0.49
1:B:552:TRP:O	1:B:553:GLN:C	2.53	0.49
1:C:664:ILE:HG21	2:Q:15:ALA:HB2	1.95	0.49
1:D:173:ILE:HG23	1:D:174:GLY:H	1.76	0.49
1:D:356:ASP:OD2	1:D:356:ASP:N	2.45	0.49
1:E:238:GLN:C	1:E:240:ALA:H	2.20	0.49
1:E:349:ASN:HD22	1:E:350:VAL:N	2.09	0.49
1:E:405:LEU:HD13	1:E:453:VAL:CG2	2.33	0.49
1:E:437:SER:O	1:E:439:ASN:N	2.45	0.49
1:E:716:LYS:O	1:E:720:ILE:HG22	2.12	0.49
1:F:515:LYS:NZ	1:F:516:VAL:CG2	2.75	0.49
1:F:630:ARG:NH1	1:F:630:ARG:HG3	2.26	0.49
1:F:686:ASP:O	1:F:689:ALA:HB3	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:700:TYR:HD1	1:F:728:ALA:CA	2.26	0.49
2:O:64:ASP:H	2:O:67:GLU:HB2	1.77	0.49
2:Q:126:ARG:HH21	2:Q:126:ARG:HG3	1.76	0.49
2:R:64:ASP:H	2:R:67:GLU:HB2	1.77	0.49
1:A:308:VAL:O	1:A:311:HIS:HB2	2.12	0.49
1:A:397:GLU:O	1:A:479:LYS:HA	2.13	0.49
1:B:180:ASP:CG	1:B:181:ILE:H	2.18	0.49
1:B:706:ASN:O	2:P:130:ILE:HG23	2.13	0.49
1:C:338:LEU:HD21	1:C:409:ARG:CZ	2.43	0.49
1:C:716:LYS:O	1:C:720:ILE:HG22	2.13	0.49
1:D:106:PHE:HA	1:D:154:ILE:O	2.13	0.49
1:D:154:ILE:CG1	1:D:171:TYR:CE1	2.87	0.49
1:D:462:ILE:CD1	1:D:466:GLY:HA2	2.42	0.49
1:D:635:ILE:N	1:D:635:ILE:CD1	2.72	0.49
1:D:772:GLU:O	1:D:773:PHE:C	2.55	0.49
1:E:199:LEU:C	1:E:201:ASP:N	2.67	0.49
1:E:581:GLN:HB3	1:E:627:TYR:CE1	2.48	0.49
1:E:772:GLU:O	1:E:773:PHE:C	2.56	0.49
2:S:49:GLN:O	2:S:51:MSE:N	2.46	0.49
2:T:126:ARG:HG3	2:T:126:ARG:HH21	1.77	0.49
1:A:99:GLU:C	1:A:101:GLY:H	2.19	0.49
1:A:156:ILE:N	1:A:156:ILE:HD12	2.26	0.49
1:B:567:THR:HG22	1:B:568:GLY:N	2.28	0.49
1:B:724:ARG:O	1:B:727:GLN:HB2	2.12	0.49
1:B:772:GLU:O	1:B:773:PHE:C	2.56	0.49
1:D:180:ASP:O	1:D:182:ILE:N	2.46	0.49
1:D:192:PHE:HD1	1:D:192:PHE:H	1.61	0.49
1:D:216:GLU:HG3	1:D:217:LYS:HG2	1.95	0.49
1:D:218:LEU:C	1:D:220:LEU:H	2.16	0.49
1:D:338:LEU:HD21	1:D:409:ARG:CZ	2.43	0.49
1:D:403:LEU:HD22	1:D:474:ILE:HG21	1.94	0.49
1:D:686:ASP:O	1:D:689:ALA:HB3	2.13	0.49
1:E:106:PHE:HA	1:E:154:ILE:O	2.12	0.49
1:E:597:ASN:HB2	1:E:598:PRO:CD	2.37	0.49
1:E:662:GLU:OE2	1:E:755:ARG:NH2	2.37	0.49
1:F:387:ASN:O	1:F:390:SER:HB2	2.12	0.49
2:O:44:THR:OG1	2:O:47:GLU:HB2	2.13	0.49
2:O:101:SER:OG	2:O:104:GLU:HG2	2.13	0.49
2:P:25:GLY:HA3	2:P:65:PHE:CZ	2.48	0.49
2:P:44:THR:OG1	2:P:47:GLU:HB2	2.12	0.49
2:P:100:ILE:HB	2:P:136:VAL:HG23	1.91	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:65:PHE:CD1	2:Q:65:PHE:N	2.81	0.49
2:S:5:THR:HG23	2:S:8:GLN:H	1.77	0.49
2:T:9:ILE:CD1	2:T:69:LEU:HD11	2.38	0.49
1:B:165:GLN:C	1:B:167:LYS:N	2.70	0.49
1:B:397:GLU:O	1:B:479:LYS:HA	2.13	0.49
1:B:671:ARG:HG3	1:B:671:ARG:HH11	1.77	0.49
1:C:199:LEU:C	1:C:201:ASP:N	2.67	0.49
1:C:552:TRP:O	1:C:553:GLN:C	2.53	0.49
1:D:323:ASN:C	1:D:324:THR:CG2	2.85	0.49
1:D:437:SER:O	1:D:439:ASN:N	2.46	0.49
1:D:706:ASN:O	2:R:130:ILE:HG23	2.13	0.49
1:D:716:LYS:O	1:D:720:ILE:HG22	2.12	0.49
1:D:717:LYS:O	1:D:720:ILE:HG22	2.13	0.49
1:E:397:GLU:O	1:E:479:LYS:HA	2.13	0.49
1:E:567:THR:HG22	1:E:568:GLY:N	2.28	0.49
1:E:700:TYR:HD1	1:E:728:ALA:CA	2.25	0.49
1:F:172:GLU:CB	1:F:246:SER:HA	2.39	0.49
1:F:197:LYS:HB3	1:F:197:LYS:NZ	2.25	0.49
1:F:565:LYS:C	1:F:567:THR:N	2.68	0.49
2:P:13:LYS:NZ	2:P:65:PHE:CB	2.61	0.49
2:R:110:THR:HG22	2:R:114:GLU:O	2.12	0.49
1:A:218:LEU:HG	1:A:218:LEU:O	2.13	0.49
1:A:715:GLU:OE1	1:A:767:GLN:NE2	2.45	0.49
1:B:218:LEU:O	1:B:218:LEU:HG	2.13	0.49
1:B:629:ASN:HD22	1:B:631:SER:N	1.99	0.49
1:B:697:ILE:C	1:B:699:GLY:N	2.66	0.49
1:C:281:GLU:O	1:C:285:LYS:HG2	2.13	0.49
1:C:397:GLU:O	1:C:479:LYS:HA	2.12	0.49
1:D:508:ILE:HG23	1:D:536:TYR:CE2	2.48	0.49
1:D:630:ARG:NH1	1:D:630:ARG:HG3	2.25	0.49
1:E:76:LEU:O	1:E:77:ASP:C	2.56	0.49
1:E:127:SER:O	1:E:133:GLU:CD	2.48	0.49
1:E:165:GLN:C	1:E:167:LYS:N	2.69	0.49
1:E:216:GLU:HG3	1:E:217:LYS:HG2	1.95	0.49
1:F:97:TYR:HE1	1:F:178:SER:CB	2.25	0.49
2:O:49:GLN:O	2:O:51:MSE:N	2.46	0.49
2:P:16:PHE:CE1	2:P:27:ILE:CD1	2.96	0.49
2:S:56:ASP:CG	2:S:60:ASN:CG	2.81	0.49
2:T:24:ASP:OD1	2:T:25:GLY:N	2.42	0.49
1:A:141:PHE:N	1:A:141:PHE:CD1	2.81	0.49
1:B:189:ASP:HB3	1:B:190:PRO:HD2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:244:ALA:HB3	1:B:268:MET:HE3	1.94	0.49
1:B:308:VAL:CG2	1:B:336:THR:O	2.61	0.49
1:B:355:SER:HB2	1:B:371:SER:HA	1.95	0.49
1:B:742:ALA:HB1	1:B:744:GLU:OE1	2.13	0.49
1:D:376:GLN:HB3	1:D:379:ALA:HB3	1.94	0.49
1:D:724:ARG:O	1:D:727:GLN:HB2	2.13	0.49
1:E:106:PHE:CZ	1:E:171:TYR:OH	2.62	0.49
1:E:443:GLU:HG3	1:E:458:LYS:CG	2.42	0.49
1:E:446:ILE:HD11	1:E:451:ASN:CB	2.40	0.49
1:E:722:ILE:O	1:E:726:ILE:HG13	2.13	0.49
1:F:218:LEU:HG	1:F:218:LEU:O	2.12	0.49
1:F:397:GLU:O	1:F:479:LYS:HA	2.13	0.49
1:F:443:GLU:CG	1:F:458:LYS:HZ2	2.25	0.49
2:Q:13:LYS:O	2:Q:14:GLU:C	2.55	0.49
2:Q:19:PHE:CD1	2:Q:19:PHE:N	2.81	0.49
1:A:148:GLU:HG3	1:A:149:THR:H	1.76	0.49
1:A:308:VAL:CG2	1:A:336:THR:O	2.61	0.49
1:B:99:GLU:C	1:B:101:GLY:H	2.19	0.49
1:B:192:PHE:HD1	1:B:192:PHE:H	1.61	0.49
1:B:405:LEU:CD1	1:B:405:LEU:H	2.26	0.49
1:C:112:VAL:HG12	1:C:113:GLU:HG3	1.94	0.49
1:C:308:VAL:CG2	1:C:336:THR:O	2.61	0.49
1:C:684:ASP:C	1:C:686:ASP:N	2.69	0.49
1:C:772:GLU:O	1:C:773:PHE:C	2.55	0.49
1:D:397:GLU:HA	1:D:480:ASN:CB	2.42	0.49
1:D:671:ARG:HH11	1:D:671:ARG:HG3	1.77	0.49
1:D:742:ALA:HB1	1:D:744:GLU:OE1	2.13	0.49
1:D:793:PHE:O	1:D:794:GLN:C	2.56	0.49
1:E:483:GLY:O	1:E:484:VAL:HG22	2.13	0.49
1:E:715:GLU:OE1	1:E:767:GLN:NE2	2.45	0.49
1:F:107:THR:HG21	1:F:115:LYS:CD	2.37	0.49
1:F:189:ASP:HB3	1:F:190:PRO:HD2	1.94	0.49
1:F:403:LEU:HD22	1:F:474:ILE:HG21	1.94	0.49
1:F:742:ALA:HB1	1:F:744:GLU:OE1	2.13	0.49
2:O:24:ASP:CG	2:O:25:GLY:H	2.20	0.49
2:P:49:GLN:O	2:P:51:MSE:N	2.45	0.49
2:P:56:ASP:OD2	2:P:61:GLY:N	2.46	0.49
2:R:25:GLY:HA3	2:R:65:PHE:CZ	2.48	0.49
1:A:238:GLN:C	1:A:240:ALA:H	2.20	0.48
1:B:112:VAL:HG12	1:B:113:GLU:HG3	1.95	0.48
1:B:112:VAL:CG1	1:B:113:GLU:H	2.08	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:134:LYS:NZ	1:B:136:PRO:HG3	2.28	0.48
1:B:216:GLU:HG3	1:B:217:LYS:HG2	1.95	0.48
1:B:225:ILE:HG23	1:B:229:PHE:CD2	2.48	0.48
1:B:285:LYS:C	1:B:287:GLY:H	2.21	0.48
1:B:615:ILE:CD1	1:B:645:TRP:HH2	2.19	0.48
1:B:664:ILE:HG21	2:P:15:ALA:HB2	1.95	0.48
1:C:597:ASN:HD21	1:C:601:GLU:CB	2.08	0.48
1:C:717:LYS:O	1:C:720:ILE:HG22	2.13	0.48
1:D:173:ILE:HG23	1:D:174:GLY:N	2.27	0.48
1:D:173:ILE:O	1:D:174:GLY:C	2.54	0.48
1:D:180:ASP:O	1:D:183:SER:N	2.33	0.48
1:D:218:LEU:HG	1:D:218:LEU:O	2.13	0.48
1:D:322:LEU:O	1:D:323:ASN:HB3	2.13	0.48
1:D:397:GLU:O	1:D:479:LYS:HA	2.13	0.48
1:D:443:GLU:HG3	1:D:458:LYS:CG	2.42	0.48
1:E:88:LYS:HD2	1:E:89:ILE:HG13	1.94	0.48
1:E:192:PHE:HD1	1:E:192:PHE:H	1.61	0.48
1:E:365:PRO:HB2	1:E:367:ASP:O	2.13	0.48
1:F:173:ILE:HG13	1:F:242:SER:CB	2.38	0.48
1:F:308:VAL:CG2	1:F:336:THR:O	2.61	0.48
1:F:355:SER:HB2	1:F:371:SER:HA	1.95	0.48
1:F:583:ASN:O	1:F:587:PRO:HD3	2.13	0.48
1:F:772:GLU:O	1:F:773:PHE:C	2.55	0.48
2:P:64:ASP:H	2:P:67:GLU:HB2	1.78	0.48
2:P:126:ARG:HH21	2:P:126:ARG:HG3	1.77	0.48
2:R:126:ARG:HH21	2:R:126:ARG:HG3	1.77	0.48
2:S:13:LYS:NZ	2:S:65:PHE:CB	2.61	0.48
2:T:24:ASP:CG	2:T:25:GLY:H	2.21	0.48
1:A:443:GLU:HG3	1:A:458:LYS:CG	2.42	0.48
1:A:742:ALA:HB1	1:A:744:GLU:OE1	2.13	0.48
1:B:106:PHE:HA	1:B:154:ILE:O	2.12	0.48
1:B:141:PHE:CD1	1:B:141:PHE:N	2.81	0.48
1:B:323:ASN:O	1:B:324:THR:HG22	2.13	0.48
1:B:403:LEU:HD22	1:B:474:ILE:HG21	1.94	0.48
1:B:581:GLN:HB3	1:B:627:TYR:CE1	2.48	0.48
1:C:437:SER:O	1:C:439:ASN:N	2.46	0.48
1:C:445:ARG:HG2	1:C:471:TRP:CZ3	2.48	0.48
1:D:112:VAL:HG12	1:D:113:GLU:HG3	1.95	0.48
1:D:164:GLU:HG2	1:D:166:SER:HB3	1.94	0.48
1:D:238:GLN:C	1:D:240:ALA:H	2.20	0.48
1:D:622:LYS:HD3	1:D:622:LYS:HA	1.50	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:112:VAL:HG12	1:E:113:GLU:HG3	1.95	0.48
1:E:164:GLU:HG2	1:E:166:SER:HB3	1.94	0.48
1:E:445:ARG:HG2	1:E:471:TRP:CZ3	2.49	0.48
1:F:192:PHE:H	1:F:192:PHE:HD1	1.61	0.48
1:F:281:GLU:C	1:F:283:LEU:N	2.69	0.48
1:F:322:LEU:O	1:F:323:ASN:HB3	2.13	0.48
1:F:365:PRO:HB2	1:F:367:ASP:O	2.13	0.48
1:F:684:ASP:C	1:F:686:ASP:N	2.69	0.48
1:F:724:ARG:O	1:F:727:GLN:HB2	2.13	0.48
2:O:93:ASP:OD1	2:O:97:ASN:ND2	2.46	0.48
2:P:5:THR:HG23	2:P:8:GLN:H	1.78	0.48
2:Q:101:SER:OG	2:Q:104:GLU:HG2	2.13	0.48
2:R:49:GLN:O	2:R:51:MSE:N	2.46	0.48
2:R:101:SER:OG	2:R:104:GLU:HG2	2.13	0.48
2:S:58:ASP:HB2	2:S:62:THR:O	2.12	0.48
1:A:154:ILE:CG1	1:A:171:TYR:CE1	2.87	0.48
1:A:173:ILE:O	1:A:174:GLY:C	2.54	0.48
1:A:192:PHE:HD1	1:A:192:PHE:H	1.61	0.48
1:A:281:GLU:O	1:A:285:LYS:HG2	2.13	0.48
1:B:71:PHE:O	1:B:78:LYS:NZ	2.46	0.48
1:B:169:VAL:HG22	1:B:246:SER:HB2	1.96	0.48
1:B:597:ASN:OD1	1:B:599:GLU:HB2	2.12	0.48
1:C:97:TYR:HE1	1:C:178:SER:CB	2.26	0.48
1:C:192:PHE:H	1:C:192:PHE:HD1	1.61	0.48
1:C:355:SER:HB2	1:C:371:SER:HA	1.95	0.48
1:C:462:ILE:CD1	1:C:466:GLY:HA2	2.43	0.48
1:C:581:GLN:HB3	1:C:627:TYR:CE1	2.49	0.48
1:C:615:ILE:CD1	1:C:645:TRP:HH2	2.17	0.48
1:D:99:GLU:C	1:D:101:GLY:H	2.21	0.48
1:D:579:THR:C	1:D:581:GLN:H	2.20	0.48
1:E:141:PHE:N	1:E:141:PHE:CD1	2.81	0.48
1:E:312:ALA:O	1:E:315:PHE:HB2	2.14	0.48
1:E:671:ARG:HH11	1:E:671:ARG:HG3	1.77	0.48
1:F:281:GLU:O	1:F:285:LYS:HG2	2.13	0.48
1:F:567:THR:HG22	1:F:568:GLY:N	2.28	0.48
1:F:722:ILE:O	1:F:726:ILE:HG13	2.13	0.48
1:F:735:VAL:O	1:F:741:ILE:HD13	2.12	0.48
2:O:138:TYR:CZ	2:O:142:VAL:CG2	2.97	0.48
2:P:52:ILE:HG23	2:P:53:ASN:H	1.75	0.48
2:T:25:GLY:HA3	2:T:65:PHE:CZ	2.48	0.48
1:A:324:THR:HB	1:A:499:PRO:CA	2.38	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:397:GLU:HA	1:A:480:ASN:CB	2.42	0.48
1:A:772:GLU:O	1:A:773:PHE:C	2.55	0.48
1:B:112:VAL:HG12	1:B:113:GLU:N	2.10	0.48
1:B:172:GLU:O	1:B:176:GLY:N	2.34	0.48
1:C:397:GLU:HA	1:C:480:ASN:CB	2.42	0.48
1:C:443:GLU:HG3	1:C:458:LYS:CG	2.42	0.48
1:C:497:LEU:CD1	1:C:556:MET:HG2	2.40	0.48
1:C:508:ILE:HG23	1:C:536:TYR:CE2	2.48	0.48
1:C:671:ARG:HH11	1:C:671:ARG:HG3	1.77	0.48
1:C:781:ASN:O	1:C:789:ASN:ND2	2.46	0.48
1:D:285:LYS:C	1:D:287:GLY:H	2.21	0.48
1:D:700:TYR:HD1	1:D:728:ALA:CA	2.26	0.48
1:E:355:SER:HB2	1:E:371:SER:HA	1.95	0.48
1:E:724:ARG:O	1:E:727:GLN:HB2	2.13	0.48
1:F:793:PHE:O	1:F:794:GLN:C	2.56	0.48
2:O:19:PHE:CD1	2:O:19:PHE:N	2.82	0.48
2:O:117:THR:O	2:O:119:GLU:N	2.46	0.48
2:O:146:THR:O	2:O:147:ALA:C	2.52	0.48
2:R:19:PHE:CD1	2:R:19:PHE:N	2.82	0.48
2:R:65:PHE:CD1	2:R:65:PHE:N	2.81	0.48
2:S:19:PHE:CD1	2:S:19:PHE:N	2.81	0.48
2:S:25:GLY:HA3	2:S:65:PHE:CZ	2.49	0.48
2:S:101:SER:OG	2:S:104:GLU:HG2	2.14	0.48
1:A:95:GLU:O	1:A:99:GLU:HB2	2.12	0.48
1:A:225:ILE:HG23	1:A:229:PHE:CD2	2.48	0.48
1:A:437:SER:O	1:A:439:ASN:N	2.46	0.48
1:B:175:LYS:NZ	1:B:175:LYS:CB	2.76	0.48
1:B:281:GLU:C	1:B:283:LEU:N	2.70	0.48
1:B:349:ASN:HD22	1:B:350:VAL:N	2.11	0.48
1:B:508:ILE:HG23	1:B:536:TYR:CE2	2.48	0.48
1:C:99:GLU:C	1:C:101:GLY:H	2.21	0.48
1:C:323:ASN:O	1:C:324:THR:HG22	2.13	0.48
1:C:630:ARG:NH1	1:C:630:ARG:HG3	2.27	0.48
1:C:662:GLU:OE2	1:C:755:ARG:NH2	2.39	0.48
1:D:225:ILE:HG23	1:D:229:PHE:CD2	2.48	0.48
1:D:482:GLU:HA	1:D:482:GLU:OE2	2.14	0.48
1:E:97:TYR:HE1	1:E:178:SER:CB	2.26	0.48
1:E:323:ASN:O	1:E:324:THR:HG22	2.13	0.48
1:E:706:ASN:O	2:S:130:ILE:HG23	2.14	0.48
1:E:724:ARG:HG3	1:E:724:ARG:NH1	2.29	0.48
1:F:88:LYS:HD2	1:F:89:ILE:HG13	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:216:GLU:HG3	1:F:217:LYS:HG2	1.95	0.48
2:O:25:GLY:HA3	2:O:65:PHE:CZ	2.49	0.48
2:P:16:PHE:CE1	2:P:27:ILE:HD13	2.48	0.48
2:R:13:LYS:O	2:R:14:GLU:C	2.55	0.48
1:A:172:GLU:O	1:A:176:GLY:N	2.34	0.48
1:A:405:LEU:CD1	1:A:405:LEU:H	2.27	0.48
1:B:238:GLN:C	1:B:240:ALA:H	2.20	0.48
1:B:445:ARG:HG2	1:B:471:TRP:CZ3	2.49	0.48
1:B:715:GLU:OE1	1:B:767:GLN:NE2	2.46	0.48
1:C:244:ALA:HB3	1:C:268:MET:HE3	1.95	0.48
1:C:365:PRO:HB2	1:C:367:ASP:O	2.14	0.48
1:C:405:LEU:CD1	1:C:405:LEU:H	2.26	0.48
1:D:148:GLU:HG3	1:D:149:THR:H	1.77	0.48
1:D:244:ALA:HB3	1:D:268:MET:HE3	1.95	0.48
1:D:302:LEU:HD22	1:D:602:PHE:HE1	1.79	0.48
1:D:531:ASN:HA	1:D:534:ILE:HD12	1.95	0.48
1:E:356:ASP:OD2	1:E:356:ASP:N	2.46	0.48
2:P:19:PHE:CD1	2:P:19:PHE:N	2.82	0.48
2:P:55:VAL:CG2	2:P:67:GLU:CD	2.87	0.48
2:Q:16:PHE:CE1	2:Q:27:ILE:CD1	2.97	0.48
1:A:445:ARG:HG2	1:A:471:TRP:CZ3	2.48	0.48
1:A:671:ARG:HH11	1:A:671:ARG:HG3	1.78	0.48
1:B:529:VAL:HG21	2:P:109:MSE:HE1	1.94	0.48
1:B:717:LYS:O	1:B:720:ILE:HG22	2.13	0.48
1:C:115:LYS:HB3	1:C:115:LYS:HZ3	1.76	0.48
1:C:482:GLU:HA	1:C:482:GLU:OE2	2.13	0.48
1:C:697:ILE:O	1:C:699:GLY:N	2.47	0.48
1:C:742:ALA:HB1	1:C:744:GLU:OE1	2.13	0.48
1:D:141:PHE:N	1:D:141:PHE:CD1	2.81	0.48
1:D:355:SER:HB2	1:D:371:SER:HA	1.96	0.48
1:E:173:ILE:C	1:E:175:LYS:N	2.66	0.48
1:E:337:ASN:C	1:E:339:ILE:N	2.69	0.48
1:E:664:ILE:HG21	2:S:15:ALA:HB2	1.95	0.48
1:F:76:LEU:O	1:F:77:ASP:C	2.57	0.48
1:F:99:GLU:C	1:F:101:GLY:H	2.21	0.48
1:F:323:ASN:O	1:F:324:THR:HG22	2.13	0.48
1:F:508:ILE:HG23	1:F:536:TYR:CE2	2.49	0.48
2:P:117:THR:O	2:P:119:GLU:N	2.47	0.48
2:Q:5:THR:HG23	2:Q:8:GLN:H	1.77	0.48
2:Q:129:ASP:OD1	2:Q:134:GLY:N	2.47	0.48
2:R:5:THR:HG23	2:R:8:GLN:H	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:44:THR:OG1	2:T:47:GLU:HB2	2.13	0.48
2:T:65:PHE:CD1	2:T:65:PHE:N	2.81	0.48
2:T:117:THR:C	2:T:119:GLU:N	2.71	0.48
1:A:285:LYS:C	1:A:287:GLY:H	2.22	0.48
1:A:482:GLU:HA	1:A:482:GLU:OE2	2.14	0.48
1:B:154:ILE:CG1	1:B:171:TYR:CE1	2.88	0.48
1:B:365:PRO:HB2	1:B:367:ASP:O	2.14	0.48
1:C:478:ALA:CB	1:C:486:LYS:O	2.62	0.48
1:C:755:ARG:O	1:C:756:ILE:C	2.57	0.48
1:D:78:LYS:HG3	1:D:79:ILE:N	2.26	0.48
1:D:497:LEU:CD1	1:D:556:MET:HG2	2.41	0.48
1:D:579:THR:C	1:D:581:GLN:N	2.71	0.48
1:D:735:VAL:O	1:D:741:ILE:HD13	2.13	0.48
1:D:781:ASN:O	1:D:789:ASN:ND2	2.46	0.48
1:E:497:LEU:CD1	1:E:556:MET:HG2	2.41	0.48
1:F:112:VAL:O	1:F:114:HIS:N	2.39	0.48
1:F:141:PHE:N	1:F:141:PHE:CD1	2.80	0.48
1:F:187:SER:C	1:F:188:LEU:O	2.44	0.48
2:O:97:ASN:N	2:O:97:ASN:ND2	2.60	0.48
2:Q:39:LEU:HD23	2:Q:39:LEU:HA	1.75	0.48
2:Q:56:ASP:CG	2:Q:60:ASN:CG	2.81	0.48
2:R:117:THR:O	2:R:119:GLU:N	2.47	0.48
1:A:169:VAL:HG22	1:A:246:SER:HB2	1.96	0.48
1:A:216:GLU:HG3	1:A:217:LYS:HG2	1.96	0.48
1:A:281:GLU:C	1:A:283:LEU:H	2.22	0.48
1:B:356:ASP:N	1:B:356:ASP:OD2	2.44	0.48
1:B:620:THR:HG22	1:B:621:GLY:N	2.29	0.48
1:C:78:LYS:HG3	1:C:79:ILE:N	2.26	0.48
1:C:141:PHE:N	1:C:141:PHE:CD1	2.81	0.48
1:C:285:LYS:C	1:C:287:GLY:H	2.21	0.48
1:C:403:LEU:HD22	1:C:474:ILE:HG21	1.95	0.48
1:C:706:ASN:O	2:Q:130:ILE:HG23	2.13	0.48
1:E:154:ILE:CG1	1:E:171:TYR:CE1	2.86	0.48
1:E:189:ASP:HB3	1:E:190:PRO:HD2	1.94	0.48
1:E:308:VAL:CG2	1:E:336:THR:O	2.62	0.48
1:E:482:GLU:HA	1:E:482:GLU:OE2	2.14	0.48
1:E:717:LYS:O	1:E:720:ILE:HG22	2.14	0.48
1:F:197:LYS:HZ3	1:F:197:LYS:C	2.21	0.48
1:F:302:LEU:HD22	1:F:602:PHE:HE1	1.78	0.48
1:F:482:GLU:HA	1:F:482:GLU:OE2	2.14	0.48
1:F:671:ARG:HH11	1:F:671:ARG:HG3	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:88:ALA:O	2:O:91:VAL:HB	2.14	0.48
2:R:9:ILE:HG23	2:R:69:LEU:CD2	2.43	0.48
2:T:13:LYS:NZ	2:T:65:PHE:CB	2.62	0.48
1:A:115:LYS:HB3	1:A:115:LYS:HZ3	1.77	0.48
1:A:164:GLU:HG2	1:A:166:SER:HB3	1.95	0.48
1:A:462:ILE:CD1	1:A:466:GLY:HA2	2.42	0.48
1:A:567:THR:HG22	1:A:568:GLY:N	2.29	0.48
1:B:437:SER:O	1:B:439:ASN:N	2.47	0.48
1:C:722:ILE:O	1:C:726:ILE:HG13	2.13	0.48
1:D:79:ILE:C	1:D:81:GLN:N	2.57	0.48
1:D:210:PHE:HZ	1:D:221:ASN:OD1	1.97	0.48
1:D:281:GLU:O	1:D:285:LYS:HG2	2.13	0.48
1:D:692:GLU:OE2	1:D:692:GLU:HA	2.14	0.48
1:D:722:ILE:O	1:D:726:ILE:HG13	2.14	0.48
1:D:755:ARG:O	1:D:756:ILE:C	2.57	0.48
1:E:225:ILE:HG23	1:E:229:PHE:CD2	2.49	0.48
1:F:141:PHE:HD1	1:F:141:PHE:H	1.62	0.48
1:F:173:ILE:C	1:F:175:LYS:N	2.67	0.48
1:F:217:LYS:HB3	1:F:217:LYS:NZ	2.23	0.48
1:F:275:GLY:CA	1:F:278:LYS:HE3	2.35	0.48
2:Q:25:GLY:HA3	2:Q:65:PHE:CZ	2.49	0.48
2:S:93:ASP:OD1	2:S:97:ASN:ND2	2.47	0.48
1:A:175:LYS:NZ	1:A:175:LYS:CB	2.76	0.47
1:A:176:GLY:O	1:A:178:SER:N	2.47	0.47
1:A:397:GLU:HA	1:A:480:ASN:HB2	1.96	0.47
1:A:620:THR:HG22	1:A:621:GLY:N	2.28	0.47
1:B:700:TYR:HD1	1:B:728:ALA:CA	2.25	0.47
1:C:567:THR:HG22	1:C:568:GLY:N	2.28	0.47
1:C:793:PHE:O	1:C:794:GLN:C	2.56	0.47
1:D:115:LYS:HB3	1:D:115:LYS:HZ3	1.76	0.47
1:D:637:PRO:O	1:D:638:GLY:C	2.57	0.47
1:D:724:ARG:HG3	1:D:724:ARG:NH1	2.29	0.47
1:E:218:LEU:O	1:E:218:LEU:HG	2.13	0.47
1:E:281:GLU:O	1:E:285:LYS:HG2	2.13	0.47
1:E:285:LYS:C	1:E:287:GLY:H	2.21	0.47
1:E:686:ASP:O	1:E:689:ALA:HB3	2.13	0.47
1:E:697:ILE:C	1:E:699:GLY:N	2.67	0.47
2:P:58:ASP:HB2	2:P:62:THR:O	2.13	0.47
2:R:49:GLN:O	2:R:53:ASN:N	2.43	0.47
2:R:88:ALA:O	2:R:91:VAL:HB	2.14	0.47
2:R:93:ASP:OD1	2:R:97:ASN:ND2	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:117:THR:C	2:S:119:GLU:N	2.71	0.47
1:B:164:GLU:HG2	1:B:166:SER:HB3	1.95	0.47
1:B:315:PHE:HA	1:B:318:ILE:HD13	1.96	0.47
1:B:482:GLU:HA	1:B:482:GLU:OE2	2.14	0.47
1:C:322:LEU:O	1:C:323:ASN:HB3	2.15	0.47
1:C:501:LEU:HD22	2:Q:112:LEU:CD2	2.28	0.47
1:D:191:GLU:O	1:D:193:LEU:N	2.48	0.47
1:E:148:GLU:HG3	1:E:149:THR:H	1.77	0.47
1:E:169:VAL:HG22	1:E:246:SER:HB2	1.96	0.47
1:F:106:PHE:HA	1:F:154:ILE:O	2.14	0.47
1:F:112:VAL:HG12	1:F:113:GLU:HG3	1.95	0.47
1:F:282:SER:HA	1:F:285:LYS:CD	2.44	0.47
1:F:755:ARG:O	1:F:756:ILE:C	2.57	0.47
2:P:56:ASP:CG	2:P:60:ASN:CG	2.82	0.47
2:Q:76:MSE:HE3	2:Q:76:MSE:HB2	1.64	0.47
2:Q:81:SER:C	2:Q:83:GLU:N	2.72	0.47
2:T:117:THR:O	2:T:119:GLU:N	2.47	0.47
1:C:191:GLU:O	1:C:193:LEU:N	2.47	0.47
1:C:620:THR:HG22	1:C:621:GLY:N	2.30	0.47
1:D:74:GLU:C	1:D:75:THR:O	2.57	0.47
1:D:88:LYS:HD2	1:D:89:ILE:HG13	1.95	0.47
1:D:275:GLY:CA	1:D:278:LYS:HG3	2.43	0.47
1:E:282:SER:HA	1:E:285:LYS:CD	2.44	0.47
1:F:115:LYS:NZ	1:F:117:LEU:HB2	2.30	0.47
1:F:191:GLU:O	1:F:193:LEU:N	2.48	0.47
1:F:445:ARG:HG2	1:F:471:TRP:CZ3	2.49	0.47
1:F:581:GLN:HB3	1:F:627:TYR:CE1	2.48	0.47
1:F:717:LYS:O	1:F:720:ILE:HG22	2.14	0.47
2:Q:117:THR:C	2:Q:119:GLU:N	2.71	0.47
2:R:55:VAL:CB	2:R:67:GLU:OE2	2.60	0.47
1:A:583:ASN:O	1:A:587:PRO:HD3	2.14	0.47
1:A:700:TYR:HD1	1:A:728:ALA:CA	2.26	0.47
1:A:724:ARG:HG3	1:A:724:ARG:NH1	2.28	0.47
1:B:76:LEU:O	1:B:77:ASP:C	2.57	0.47
1:B:275:GLY:CA	1:B:278:LYS:HG3	2.43	0.47
1:B:481:VAL:O	1:B:482:GLU:HB2	2.14	0.47
1:D:281:GLU:C	1:D:283:LEU:H	2.21	0.47
1:D:405:LEU:CD1	1:D:405:LEU:H	2.27	0.47
1:D:445:ARG:HG2	1:D:471:TRP:CZ3	2.49	0.47
1:E:71:PHE:O	1:E:78:LYS:NZ	2.45	0.47
1:E:134:LYS:NZ	1:E:136:PRO:HG3	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:175:LYS:NZ	1:F:175:LYS:CB	2.76	0.47
1:F:315:PHE:HA	1:F:318:ILE:HD13	1.96	0.47
1:F:318:ILE:HD12	1:F:318:ILE:N	2.25	0.47
2:O:65:PHE:CD1	2:O:65:PHE:N	2.82	0.47
2:P:129:ASP:OD1	2:P:134:GLY:N	2.47	0.47
2:Q:117:THR:O	2:Q:119:GLU:N	2.48	0.47
2:S:109:MSE:HG3	2:S:116:LEU:CD1	2.41	0.47
2:T:16:PHE:CE1	2:T:27:ILE:CD1	2.97	0.47
1:A:102:GLY:HA3	1:A:150:PRO:HG2	1.96	0.47
1:A:191:GLU:O	1:A:193:LEU:N	2.47	0.47
1:A:581:GLN:HB3	1:A:627:TYR:CE1	2.49	0.47
1:A:662:GLU:OE2	1:A:755:ARG:NH2	2.38	0.47
1:A:700:TYR:CD1	1:A:727:GLN:HB3	2.50	0.47
1:B:597:ASN:HB2	1:B:598:PRO:CD	2.37	0.47
1:C:115:LYS:NZ	1:C:117:LEU:HB2	2.30	0.47
1:C:169:VAL:HG22	1:C:246:SER:HB2	1.97	0.47
1:C:216:GLU:HG3	1:C:217:LYS:HG2	1.95	0.47
1:C:225:ILE:HG23	1:C:229:PHE:CD2	2.48	0.47
1:C:282:SER:HA	1:C:285:LYS:CD	2.44	0.47
1:D:323:ASN:O	1:D:324:THR:HG22	2.15	0.47
1:F:102:GLY:HA3	1:F:150:PRO:HG2	1.96	0.47
1:F:244:ALA:HB3	1:F:268:MET:HE3	1.96	0.47
1:F:285:LYS:C	1:F:287:GLY:H	2.21	0.47
1:F:397:GLU:HA	1:F:480:ASN:HB2	1.95	0.47
2:O:49:GLN:O	2:O:53:ASN:N	2.43	0.47
2:O:126:ARG:HH21	2:O:126:ARG:HG3	1.78	0.47
2:P:9:ILE:HG23	2:P:69:LEU:CD2	2.44	0.47
2:Q:9:ILE:HG23	2:Q:69:LEU:CD2	2.44	0.47
2:S:117:THR:O	2:S:119:GLU:N	2.47	0.47
2:T:19:PHE:CD1	2:T:19:PHE:N	2.81	0.47
1:A:76:LEU:O	1:A:77:ASP:C	2.57	0.47
1:A:134:LYS:NZ	1:A:136:PRO:HG3	2.29	0.47
1:A:275:GLY:CA	1:A:278:LYS:HG3	2.43	0.47
1:A:312:ALA:O	1:A:315:PHE:HB2	2.14	0.47
1:A:365:PRO:HB2	1:A:367:ASP:O	2.14	0.47
1:B:180:ASP:O	1:B:183:SER:N	2.33	0.47
1:B:191:GLU:O	1:B:193:LEU:N	2.48	0.47
1:B:322:LEU:O	1:B:323:ASN:HB3	2.14	0.47
1:C:540:ARG:NH1	1:C:627:TYR:CE1	2.83	0.47
1:C:637:PRO:O	1:C:638:GLY:C	2.58	0.47
1:C:686:ASP:O	1:C:689:ALA:HB3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:312:ALA:O	1:D:315:PHE:HB2	2.14	0.47
1:D:432:TYR:CD1	1:D:445:ARG:NE	2.82	0.47
1:D:523:LEU:HD22	2:R:127:GLU:HG2	1.97	0.47
1:D:581:GLN:HB3	1:D:627:TYR:HE1	1.80	0.47
1:D:583:ASN:O	1:D:587:PRO:HD3	2.14	0.47
1:E:115:LYS:NZ	1:E:117:LEU:HB2	2.29	0.47
1:E:134:LYS:C	1:E:136:PRO:HD3	2.40	0.47
1:E:191:GLU:O	1:E:193:LEU:N	2.48	0.47
1:E:302:LEU:HD22	1:E:602:PHE:HE1	1.79	0.47
1:E:318:ILE:HD12	1:E:318:ILE:N	2.25	0.47
1:E:397:GLU:HA	1:E:480:ASN:HB2	1.96	0.47
1:E:781:ASN:O	1:E:789:ASN:ND2	2.46	0.47
1:F:356:ASP:OD2	1:F:356:ASP:N	2.44	0.47
2:O:56:ASP:CG	2:O:60:ASN:CG	2.82	0.47
2:Q:58:ASP:HB2	2:Q:62:THR:O	2.15	0.47
2:Q:102:ALA:HB1	2:Q:121:VAL:CG1	2.45	0.47
2:T:9:ILE:HG23	2:T:69:LEU:CD2	2.44	0.47
2:T:81:SER:C	2:T:83:GLU:N	2.72	0.47
1:A:115:LYS:NZ	1:A:117:LEU:HB2	2.29	0.47
1:A:172:GLU:CB	1:A:246:SER:HA	2.40	0.47
1:A:667:LEU:O	1:A:668:SER:C	2.57	0.47
1:A:722:ILE:O	1:A:726:ILE:HG13	2.15	0.47
1:A:724:ARG:O	1:A:727:GLN:HB2	2.15	0.47
1:B:115:LYS:NZ	1:B:117:LEU:HB2	2.29	0.47
1:B:302:LEU:HD22	1:B:602:PHE:HE1	1.79	0.47
1:B:414:LYS:HZ3	1:B:414:LYS:HA	1.80	0.47
1:B:579:THR:C	1:B:581:GLN:N	2.72	0.47
1:B:597:ASN:CB	1:B:598:PRO:HD2	2.36	0.47
1:B:716:LYS:O	1:B:720:ILE:HG22	2.15	0.47
1:C:302:LEU:HD22	1:C:602:PHE:HE1	1.79	0.47
1:C:692:GLU:HA	1:C:692:GLU:OE2	2.15	0.47
1:D:76:LEU:O	1:D:77:ASP:C	2.57	0.47
1:D:509:PRO:HG2	1:D:512:GLU:HG3	1.96	0.47
1:D:666:ASN:HB2	1:D:748:TYR:OH	2.15	0.47
1:E:107:THR:HG21	1:E:115:LYS:CD	2.38	0.47
1:E:306:GLY:O	1:E:307:LEU:C	2.58	0.47
1:E:322:LEU:O	1:E:323:ASN:HB3	2.15	0.47
1:E:432:TYR:CD1	1:E:445:ARG:NE	2.83	0.47
1:E:579:THR:C	1:E:581:GLN:N	2.72	0.47
1:E:597:ASN:HD21	1:E:601:GLU:CB	2.09	0.47
1:F:225:ILE:HG23	1:F:229:PHE:CD2	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:509:PRO:HG2	1:F:512:GLU:HG3	1.96	0.47
1:F:527:LYS:HG2	2:T:145:MSE:SE	2.65	0.47
1:F:630:ARG:CZ	2:T:83:GLU:CG	2.88	0.47
1:F:692:GLU:OE1	2:T:21:LYS:NZ	2.47	0.47
1:F:706:ASN:O	2:T:130:ILE:HG23	2.14	0.47
2:O:9:ILE:HG23	2:O:69:LEU:CD2	2.44	0.47
2:P:93:ASP:OD1	2:P:97:ASN:ND2	2.48	0.47
2:P:102:ALA:HB1	2:P:121:VAL:CG1	2.45	0.47
2:P:117:THR:C	2:P:119:GLU:N	2.71	0.47
2:P:138:TYR:CZ	2:P:142:VAL:CG2	2.98	0.47
2:Q:55:VAL:CB	2:Q:67:GLU:OE2	2.59	0.47
2:R:56:ASP:CG	2:R:60:ASN:CG	2.82	0.47
2:R:129:ASP:OD1	2:R:134:GLY:N	2.47	0.47
2:S:9:ILE:HG23	2:S:69:LEU:CD2	2.44	0.47
2:S:138:TYR:CZ	2:S:142:VAL:CG2	2.98	0.47
2:T:88:ALA:O	2:T:91:VAL:HB	2.14	0.47
1:B:165:GLN:OE1	1:B:252:ASP:HB3	2.14	0.47
1:B:583:ASN:O	1:B:587:PRO:HD3	2.14	0.47
1:C:76:LEU:O	1:C:77:ASP:C	2.58	0.47
1:C:78:LYS:HD2	1:C:156:ILE:HD13	1.97	0.47
1:C:112:VAL:CG1	1:C:113:GLU:H	2.07	0.47
1:C:414:LYS:C	1:C:416:ASN:H	2.23	0.47
1:C:414:LYS:HZ3	1:C:414:LYS:HA	1.80	0.47
1:C:443:GLU:HG3	1:C:458:LYS:HZ2	1.79	0.47
1:C:724:ARG:HG3	1:C:724:ARG:NH1	2.27	0.47
1:D:115:LYS:NZ	1:D:117:LEU:HB2	2.30	0.47
1:D:169:VAL:HG22	1:D:246:SER:HB2	1.96	0.47
1:D:365:PRO:HB2	1:D:367:ASP:O	2.14	0.47
1:E:620:THR:HG22	1:E:621:GLY:N	2.29	0.47
1:F:281:GLU:C	1:F:283:LEU:H	2.22	0.47
1:F:579:THR:C	1:F:581:GLN:N	2.73	0.47
1:F:620:THR:HG22	1:F:621:GLY:N	2.30	0.47
1:F:692:GLU:HA	1:F:692:GLU:OE2	2.15	0.47
2:O:55:VAL:CB	2:O:67:GLU:OE2	2.59	0.47
2:R:16:PHE:CE1	2:R:27:ILE:CD1	2.97	0.47
2:R:141:PHE:CZ	2:R:145:MSE:HE3	2.50	0.47
2:S:65:PHE:CD1	2:S:65:PHE:N	2.82	0.47
1:A:88:LYS:HD2	1:A:89:ILE:HG13	1.95	0.47
1:A:509:PRO:HD2	1:A:536:TYR:CE2	2.50	0.47
1:A:515:LYS:HZ3	1:A:516:VAL:HG23	1.79	0.47
1:A:781:ASN:O	1:A:789:ASN:ND2	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:432:TYR:CD1	1:B:445:ARG:NE	2.83	0.47
1:B:686:ASP:O	1:B:689:ALA:HB3	2.14	0.47
1:B:692:GLU:HA	1:B:692:GLU:OE2	2.15	0.47
1:C:318:ILE:HG23	1:C:322:LEU:HD12	1.96	0.47
1:C:776:LEU:C	1:C:776:LEU:CD2	2.88	0.47
1:D:515:LYS:HZ1	1:D:516:VAL:CG2	2.27	0.47
1:D:567:THR:HG22	1:D:568:GLY:N	2.30	0.47
1:E:99:GLU:C	1:E:101:GLY:H	2.22	0.47
1:E:252:ASP:OD2	1:E:253:HIS:CD2	2.68	0.47
1:E:281:GLU:C	1:E:283:LEU:H	2.22	0.47
1:E:579:THR:C	1:E:581:GLN:H	2.23	0.47
1:F:597:ASN:HB2	1:F:598:PRO:CD	2.37	0.47
2:O:58:ASP:HB2	2:O:62:THR:O	2.15	0.47
2:O:81:SER:O	2:O:83:GLU:N	2.47	0.47
2:Q:28:THR:HG21	2:Q:30:LYS:HZ1	1.79	0.47
2:R:16:PHE:CE1	2:R:27:ILE:HD13	2.50	0.47
2:S:88:ALA:O	2:S:91:VAL:HB	2.15	0.47
2:T:109:MSE:HG3	2:T:116:LEU:CD1	2.43	0.47
1:A:141:PHE:HD1	1:A:141:PHE:H	1.63	0.47
1:A:315:PHE:HA	1:A:318:ILE:HD13	1.97	0.47
1:A:483:GLY:C	1:A:484:VAL:CG2	2.88	0.47
1:A:716:LYS:O	1:A:720:ILE:HG22	2.14	0.47
1:B:134:LYS:HZ3	1:B:136:PRO:HG3	1.80	0.47
1:B:296:LEU:HD22	1:B:606:LYS:HE2	1.97	0.47
1:B:345:THR:O	1:B:479:LYS:HE2	2.15	0.47
1:B:483:GLY:C	1:B:484:VAL:CG2	2.89	0.47
1:C:176:GLY:O	1:C:178:SER:N	2.48	0.47
1:C:312:ALA:O	1:C:315:PHE:HB2	2.15	0.47
1:C:509:PRO:HG2	1:C:512:GLU:HG3	1.97	0.47
1:D:136:PRO:O	1:D:137:PHE:C	2.58	0.47
1:F:337:ASN:C	1:F:339:ILE:N	2.69	0.47
2:T:129:ASP:OD1	2:T:134:GLY:N	2.48	0.47
1:A:282:SER:HA	1:A:285:LYS:CD	2.44	0.46
1:A:509:PRO:HG2	1:A:512:GLU:HG3	1.96	0.46
1:A:793:PHE:O	1:A:794:GLN:C	2.57	0.46
1:B:102:GLY:HA3	1:B:150:PRO:HG2	1.97	0.46
1:B:306:GLY:O	1:B:307:LEU:C	2.58	0.46
1:C:275:GLY:CA	1:C:278:LYS:HE3	2.35	0.46
1:C:285:LYS:O	1:C:288:VAL:HG22	2.14	0.46
1:C:481:VAL:O	1:C:482:GLU:HB2	2.15	0.46
1:D:102:GLY:HA3	1:D:150:PRO:HG2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:136:PRO:O	1:E:137:PHE:C	2.59	0.46
1:E:141:PHE:HD1	1:E:141:PHE:H	1.64	0.46
1:E:175:LYS:NZ	1:E:175:LYS:CB	2.76	0.46
1:E:329:ARG:HB3	1:E:330:PRO:CD	2.46	0.46
1:E:523:LEU:HD22	2:S:127:GLU:HG2	1.98	0.46
1:E:527:LYS:HG2	2:S:145:MSE:SE	2.65	0.46
1:F:176:GLY:O	1:F:178:SER:N	2.48	0.46
1:F:414:LYS:C	1:F:416:ASN:H	2.23	0.46
1:F:776:LEU:C	1:F:776:LEU:CD2	2.88	0.46
2:O:16:PHE:CE1	2:O:27:ILE:CD1	2.98	0.46
2:O:81:SER:C	2:O:83:GLU:N	2.72	0.46
2:R:56:ASP:CG	2:R:60:ASN:HA	2.38	0.46
2:T:61:GLY:C	2:T:62:THR:HG22	2.40	0.46
2:T:97:ASN:ND2	2:T:99:TYR:H	2.13	0.46
1:A:357:TRP:CZ3	1:A:439:ASN:ND2	2.84	0.46
1:A:432:TYR:CD1	1:A:445:ARG:NE	2.84	0.46
1:A:481:VAL:O	1:A:482:GLU:HB2	2.15	0.46
1:A:527:LYS:HG2	2:O:145:MSE:SE	2.65	0.46
1:A:697:ILE:O	1:A:699:GLY:N	2.47	0.46
1:A:776:LEU:C	1:A:776:LEU:CD2	2.88	0.46
1:B:83:GLN:O	1:B:84:ASP:C	2.58	0.46
1:B:136:PRO:O	1:B:137:PHE:C	2.59	0.46
1:B:462:ILE:CD1	1:B:466:GLY:HA2	2.42	0.46
1:B:776:LEU:C	1:B:776:LEU:CD2	2.88	0.46
1:B:793:PHE:O	1:B:794:GLN:C	2.56	0.46
1:C:88:LYS:HD2	1:C:89:ILE:HG13	1.97	0.46
1:C:210:PHE:HZ	1:C:221:ASN:OD1	1.99	0.46
1:D:308:VAL:CG2	1:D:336:THR:O	2.63	0.46
1:D:481:VAL:O	1:D:482:GLU:HB2	2.16	0.46
1:D:776:LEU:C	1:D:776:LEU:CD2	2.88	0.46
1:E:191:GLU:O	1:E:192:PHE:C	2.59	0.46
1:E:275:GLY:CA	1:E:278:LYS:HE3	2.36	0.46
1:E:285:LYS:O	1:E:288:VAL:HG22	2.16	0.46
1:E:296:LEU:HD22	1:E:606:LYS:HE2	1.97	0.46
1:E:315:PHE:HA	1:E:318:ILE:HD13	1.98	0.46
1:E:357:TRP:CZ3	1:E:439:ASN:ND2	2.84	0.46
1:E:583:ASN:O	1:E:587:PRO:HD3	2.15	0.46
1:E:755:ARG:O	1:E:756:ILE:C	2.59	0.46
2:O:117:THR:C	2:O:119:GLU:N	2.70	0.46
2:O:129:ASP:OD1	2:O:134:GLY:N	2.48	0.46
2:P:81:SER:O	2:P:83:GLU:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:94:LYS:HB3	2:P:94:LYS:HZ2	1.79	0.46
2:Q:81:SER:O	2:Q:83:GLU:N	2.47	0.46
2:Q:93:ASP:OD1	2:Q:97:ASN:ND2	2.48	0.46
2:Q:110:THR:O	2:Q:113:GLY:N	2.39	0.46
1:A:244:ALA:HB3	1:A:268:MET:HE3	1.96	0.46
1:A:285:LYS:O	1:A:288:VAL:HG22	2.15	0.46
1:A:329:ARG:HB3	1:A:330:PRO:CD	2.46	0.46
1:A:597:ASN:CB	1:A:598:PRO:HD2	2.36	0.46
1:A:755:ARG:O	1:A:756:ILE:C	2.57	0.46
1:B:176:GLY:O	1:B:178:SER:N	2.48	0.46
1:B:700:TYR:CD1	1:B:727:GLN:HB3	2.51	0.46
1:C:175:LYS:NZ	1:C:175:LYS:CB	2.76	0.46
1:C:281:GLU:C	1:C:283:LEU:H	2.23	0.46
1:C:306:GLY:O	1:C:307:LEU:C	2.57	0.46
1:C:579:THR:C	1:C:581:GLN:H	2.23	0.46
1:C:583:ASN:O	1:C:587:PRO:HD3	2.15	0.46
1:C:639:ASN:ND2	1:C:639:ASN:N	2.52	0.46
1:C:735:VAL:O	1:C:741:ILE:HD13	2.14	0.46
1:D:106:PHE:CZ	1:D:171:TYR:OH	2.64	0.46
1:D:414:LYS:C	1:D:416:ASN:H	2.23	0.46
1:E:172:GLU:O	1:E:176:GLY:N	2.34	0.46
1:E:637:PRO:O	1:E:638:GLY:C	2.58	0.46
1:F:74:GLU:C	1:F:75:THR:O	2.57	0.46
1:F:169:VAL:HG22	1:F:246:SER:HB2	1.97	0.46
1:F:318:ILE:O	1:F:319:ALA:C	2.59	0.46
1:F:329:ARG:HB3	1:F:330:PRO:CD	2.46	0.46
2:O:109:MSE:HG3	2:O:116:LEU:CD1	2.42	0.46
2:P:117:THR:O	2:P:118:ASP:C	2.58	0.46
2:Q:59:GLY:O	2:Q:62:THR:HG23	2.12	0.46
2:R:58:ASP:HB2	2:R:62:THR:O	2.16	0.46
2:T:28:THR:CG2	2:T:30:LYS:HZ1	2.28	0.46
2:T:93:ASP:OD1	2:T:97:ASN:ND2	2.48	0.46
1:A:579:THR:C	1:A:581:GLN:N	2.73	0.46
1:A:602:PHE:CD2	1:A:602:PHE:N	2.83	0.46
1:A:666:ASN:HB2	1:A:748:TYR:OH	2.15	0.46
1:B:191:GLU:O	1:B:192:PHE:C	2.59	0.46
1:B:199:LEU:C	1:B:201:ASP:N	2.66	0.46
1:B:318:ILE:O	1:B:319:ALA:C	2.58	0.46
1:B:446:ILE:HD11	1:B:451:ASN:CB	2.41	0.46
1:B:718:ARG:O	1:B:722:ILE:HG13	2.15	0.46
1:C:74:GLU:C	1:C:75:THR:O	2.58	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:136:PRO:O	1:C:137:PHE:C	2.58	0.46
1:C:368:GLN:HG3	1:C:383:GLY:C	2.41	0.46
1:C:447:SER:OG	1:C:448:ASP:N	2.48	0.46
1:C:597:ASN:HB2	1:C:598:PRO:CD	2.38	0.46
1:D:165:GLN:OE1	1:D:252:ASP:HB3	2.15	0.46
1:D:210:PHE:C	1:D:210:PHE:CD1	2.93	0.46
1:E:165:GLN:OE1	1:E:252:ASP:HB3	2.15	0.46
1:E:540:ARG:NH1	1:E:627:TYR:CE1	2.83	0.46
1:E:602:PHE:N	1:E:602:PHE:CD2	2.84	0.46
1:F:210:PHE:HZ	1:F:221:ASN:OD1	1.98	0.46
1:F:296:LEU:HD22	1:F:606:LYS:HE2	1.98	0.46
1:F:481:VAL:O	1:F:482:GLU:HB2	2.15	0.46
1:F:579:THR:C	1:F:581:GLN:H	2.24	0.46
2:O:28:THR:CB	2:O:30:LYS:HZ1	2.29	0.46
2:O:61:GLY:C	2:O:62:THR:HG22	2.40	0.46
2:P:65:PHE:CD1	2:P:65:PHE:N	2.81	0.46
2:Q:88:ALA:O	2:Q:91:VAL:HB	2.15	0.46
2:T:39:LEU:HD23	2:T:39:LEU:HA	1.75	0.46
1:A:717:LYS:O	1:A:720:ILE:HG22	2.15	0.46
1:B:141:PHE:H	1:B:141:PHE:HD1	1.64	0.46
1:B:282:SER:HA	1:B:285:LYS:CD	2.44	0.46
1:B:329:ARG:HB3	1:B:330:PRO:CD	2.46	0.46
1:B:722:ILE:O	1:B:726:ILE:HG13	2.16	0.46
1:B:755:ARG:O	1:B:756:ILE:C	2.58	0.46
1:C:329:ARG:HB3	1:C:330:PRO:CD	2.45	0.46
1:C:666:ASN:HB2	1:C:748:TYR:OH	2.16	0.46
1:D:175:LYS:NZ	1:D:175:LYS:CB	2.76	0.46
1:D:176:GLY:O	1:D:178:SER:N	2.48	0.46
1:D:397:GLU:HA	1:D:480:ASN:HB2	1.96	0.46
1:E:227:ILE:HG22	1:E:227:ILE:O	2.15	0.46
1:E:692:GLU:HA	1:E:692:GLU:OE2	2.15	0.46
1:E:709:ASN:O	1:E:717:LYS:HE3	2.16	0.46
1:E:793:PHE:O	1:E:794:GLN:C	2.56	0.46
1:F:210:PHE:CD1	1:F:210:PHE:C	2.94	0.46
1:F:432:TYR:CD1	1:F:445:ARG:NE	2.84	0.46
1:F:529:VAL:O	1:F:532:LEU:HB2	2.16	0.46
1:F:540:ARG:NH1	1:F:627:TYR:CE1	2.83	0.46
1:F:602:PHE:N	1:F:602:PHE:CD2	2.83	0.46
1:F:697:ILE:HG12	1:F:732:ILE:HD13	1.98	0.46
1:F:746:LYS:HG2	1:F:750:GLN:HE21	1.81	0.46
2:O:36:MSE:O	2:O:37:ARG:C	2.59	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:117:THR:C	2:R:119:GLU:N	2.71	0.46
2:T:81:SER:O	2:T:83:GLU:N	2.48	0.46
1:A:112:VAL:CG1	1:A:113:GLU:H	2.07	0.46
1:B:210:PHE:CD1	1:B:210:PHE:C	2.94	0.46
1:B:285:LYS:O	1:B:288:VAL:HG22	2.16	0.46
1:B:529:VAL:O	1:B:532:LEU:HB2	2.16	0.46
1:B:533:LEU:HD12	2:P:112:LEU:HD11	1.97	0.46
1:C:134:LYS:NZ	1:C:136:PRO:HG3	2.30	0.46
1:C:397:GLU:HA	1:C:480:ASN:HB2	1.97	0.46
1:C:527:LYS:HG2	2:Q:145:MSE:SE	2.66	0.46
1:D:134:LYS:NZ	1:D:136:PRO:HG3	2.31	0.46
1:D:282:SER:HA	1:D:285:LYS:CD	2.45	0.46
1:E:210:PHE:CD1	1:E:210:PHE:C	2.94	0.46
1:E:318:ILE:O	1:E:319:ALA:C	2.59	0.46
1:F:134:LYS:C	1:F:136:PRO:HD3	2.41	0.46
1:F:136:PRO:O	1:F:137:PHE:C	2.59	0.46
1:F:183:SER:HB3	1:F:184:LYS:H	1.51	0.46
2:P:61:GLY:C	2:P:62:THR:HG22	2.41	0.46
2:Q:141:PHE:CZ	2:Q:145:MSE:HE3	2.51	0.46
2:R:28:THR:OG1	2:R:30:LYS:HE2	2.16	0.46
2:R:55:VAL:CG2	2:R:67:GLU:CD	2.89	0.46
2:T:13:LYS:HZ3	2:T:65:PHE:HB3	1.70	0.46
1:A:93:VAL:HG23	1:A:179:LEU:CD1	2.40	0.46
1:A:165:GLN:OE1	1:A:252:ASP:HB3	2.15	0.46
1:A:210:PHE:HZ	1:A:221:ASN:OD1	1.98	0.46
1:A:238:GLN:O	1:A:240:ALA:N	2.49	0.46
1:A:322:LEU:O	1:A:323:ASN:HB3	2.14	0.46
1:A:443:GLU:HG3	1:A:458:LYS:HZ2	1.81	0.46
1:B:210:PHE:HZ	1:B:221:ASN:OD1	1.98	0.46
1:B:509:PRO:HD2	1:B:536:TYR:CE2	2.51	0.46
1:B:602:PHE:N	1:B:602:PHE:CD2	2.84	0.46
1:B:662:GLU:OE2	1:B:755:ARG:NH2	2.39	0.46
1:C:102:GLY:HA3	1:C:150:PRO:HG2	1.97	0.46
1:C:141:PHE:HD1	1:C:141:PHE:H	1.63	0.46
1:C:172:GLU:O	1:C:176:GLY:N	2.34	0.46
1:C:191:GLU:O	1:C:192:PHE:C	2.59	0.46
1:C:315:PHE:HA	1:C:318:ILE:HD13	1.97	0.46
1:C:446:ILE:HD11	1:C:451:ASN:CB	2.41	0.46
1:D:315:PHE:HA	1:D:318:ILE:HD13	1.97	0.46
1:E:102:GLY:HA3	1:E:150:PRO:HG2	1.96	0.46
1:E:357:TRP:CH2	1:E:439:ASN:ND2	2.84	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:509:PRO:HD2	1:E:536:TYR:CE2	2.51	0.46
1:E:718:ARG:O	1:E:722:ILE:HG13	2.15	0.46
1:F:134:LYS:NZ	1:F:136:PRO:HG3	2.31	0.46
1:F:312:ALA:O	1:F:315:PHE:HB2	2.16	0.46
1:F:700:TYR:CD1	1:F:727:GLN:HB3	2.50	0.46
2:P:55:VAL:CB	2:P:67:GLU:OE2	2.57	0.46
2:Q:49:GLN:O	2:Q:53:ASN:N	2.43	0.46
2:R:56:ASP:OD2	2:R:60:ASN:C	2.59	0.46
2:R:105:LEU:HD21	2:R:124:MSE:SE	2.66	0.46
2:R:138:TYR:CZ	2:R:142:VAL:CG2	2.99	0.46
2:S:55:VAL:CG2	2:S:67:GLU:CD	2.88	0.46
1:A:492:TYR:CE2	1:A:574:VAL:HG21	2.51	0.46
1:A:529:VAL:O	1:A:532:LEU:HB2	2.16	0.46
1:A:597:ASN:HB2	1:A:598:PRO:CD	2.37	0.46
1:B:78:LYS:HD2	1:B:156:ILE:HD13	1.98	0.46
1:B:88:LYS:HD2	1:B:89:ILE:HG13	1.97	0.46
1:B:403:LEU:CD2	1:B:474:ILE:HG21	2.46	0.46
1:C:115:LYS:HZ1	1:C:117:LEU:HB2	1.80	0.46
1:C:134:LYS:C	1:C:136:PRO:HD3	2.41	0.46
1:C:227:ILE:O	1:C:227:ILE:HG22	2.15	0.46
1:D:115:LYS:HZ1	1:D:117:LEU:HB2	1.81	0.46
1:D:141:PHE:N	1:D:141:PHE:HD1	2.14	0.46
1:D:306:GLY:O	1:D:307:LEU:C	2.58	0.46
1:D:368:GLN:HG3	1:D:383:GLY:C	2.41	0.46
1:D:620:THR:HG22	1:D:621:GLY:N	2.30	0.46
1:E:357:TRP:CZ3	1:E:439:ASN:HB2	2.51	0.46
1:E:357:TRP:HZ3	1:E:439:ASN:HB2	1.81	0.46
1:E:667:LEU:O	1:E:668:SER:C	2.59	0.46
1:F:83:GLN:O	1:F:84:ASP:C	2.59	0.46
1:F:285:LYS:O	1:F:288:VAL:HG22	2.16	0.46
1:F:405:LEU:CD1	1:F:405:LEU:H	2.27	0.46
1:F:724:ARG:HG3	1:F:724:ARG:NH1	2.30	0.46
1:F:781:ASN:O	1:F:789:ASN:ND2	2.47	0.46
2:Q:9:ILE:CD1	2:Q:69:LEU:HD11	2.38	0.46
2:Q:117:THR:O	2:Q:118:ASP:C	2.59	0.46
2:R:81:SER:O	2:R:83:GLU:N	2.48	0.46
1:A:115:LYS:HZ1	1:A:117:LEU:HB2	1.80	0.46
1:A:199:LEU:C	1:A:201:ASP:N	2.67	0.46
1:A:637:PRO:O	1:A:638:GLY:C	2.59	0.46
1:A:697:ILE:HG12	1:A:732:ILE:HD13	1.98	0.46
1:B:281:GLU:C	1:B:283:LEU:H	2.23	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:312:ALA:O	1:B:315:PHE:HB2	2.16	0.46
1:B:579:THR:C	1:B:581:GLN:H	2.24	0.46
1:B:781:ASN:O	1:B:789:ASN:ND2	2.46	0.46
1:C:357:TRP:HZ3	1:C:439:ASN:HB2	1.81	0.46
1:D:318:ILE:HD12	1:D:318:ILE:N	2.25	0.46
1:D:492:TYR:CE2	1:D:574:VAL:HG21	2.51	0.46
1:D:602:PHE:N	1:D:602:PHE:CD2	2.84	0.46
1:D:667:LEU:O	1:D:668:SER:C	2.59	0.46
1:E:176:GLY:O	1:E:178:SER:N	2.48	0.46
1:E:299:GLU:HA	1:E:302:LEU:HB3	1.98	0.46
1:E:403:LEU:CD2	1:E:474:ILE:HG21	2.46	0.46
1:E:414:LYS:C	1:E:416:ASN:H	2.23	0.46
1:E:533:LEU:HD12	2:S:112:LEU:HD11	1.97	0.46
1:E:635:ILE:N	1:E:635:ILE:CD1	2.72	0.46
1:E:746:LYS:HG2	1:E:750:GLN:HE21	1.81	0.46
1:E:776:LEU:C	1:E:776:LEU:CD2	2.89	0.46
1:F:552:TRP:HA	1:F:555:GLN:HG2	1.98	0.46
2:R:81:SER:C	2:R:83:GLU:N	2.73	0.46
2:S:117:THR:O	2:S:118:ASP:C	2.59	0.46
1:A:136:PRO:O	1:A:137:PHE:C	2.59	0.46
1:A:210:PHE:C	1:A:210:PHE:CD1	2.94	0.46
1:A:357:TRP:CZ3	1:A:439:ASN:HB2	2.52	0.46
1:A:357:TRP:HZ3	1:A:439:ASN:HB2	1.81	0.46
1:A:405:LEU:HD13	1:A:453:VAL:CG2	2.33	0.46
1:B:318:ILE:HG23	1:B:322:LEU:HD12	1.98	0.46
1:B:414:LYS:C	1:B:416:ASN:H	2.23	0.46
1:B:478:ALA:CB	1:B:486:LYS:O	2.61	0.46
1:B:581:GLN:HB3	1:B:627:TYR:HE1	1.81	0.46
1:B:670:ILE:O	1:B:671:ARG:C	2.59	0.46
1:B:739:LYS:CG	1:B:740:GLN:H	2.26	0.46
1:C:432:TYR:CD1	1:C:445:ARG:NE	2.84	0.46
1:D:629:ASN:HB3	1:D:632:TYR:CE1	2.51	0.46
1:D:700:TYR:CD1	1:D:727:GLN:HB3	2.51	0.46
1:E:492:TYR:CE2	1:E:574:VAL:HG21	2.51	0.46
1:F:165:GLN:OE1	1:F:252:ASP:HB3	2.15	0.46
1:F:483:GLY:C	1:F:484:VAL:CG2	2.89	0.46
1:F:515:LYS:HZ3	1:F:516:VAL:HG23	1.81	0.46
2:P:81:SER:C	2:P:83:GLU:N	2.73	0.46
2:Q:16:PHE:CE1	2:Q:27:ILE:HD13	2.50	0.46
2:Q:28:THR:OG1	2:Q:30:LYS:HE2	2.16	0.46
2:T:28:THR:OG1	2:T:30:LYS:HE2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:59:GLY:O	2:T:62:THR:CG2	2.64	0.46
1:A:299:GLU:HA	1:A:302:LEU:HB3	1.99	0.45
1:A:395:GLU:OE1	1:A:395:GLU:O	2.34	0.45
1:A:670:ILE:O	1:A:671:ARG:C	2.59	0.45
1:B:278:LYS:O	1:B:281:GLU:N	2.49	0.45
1:B:527:LYS:HG2	2:P:145:MSE:SE	2.65	0.45
1:B:558:ASP:O	1:B:559:ARG:C	2.60	0.45
1:B:756:ILE:H	1:B:756:ILE:HG12	1.64	0.45
1:C:83:GLN:O	1:C:84:ASP:C	2.58	0.45
1:C:492:TYR:CE2	1:C:574:VAL:HG21	2.51	0.45
1:C:580:GLU:O	1:C:583:ASN:HB2	2.16	0.45
1:C:778:LYS:HE3	1:C:778:LYS:HB3	1.76	0.45
1:D:483:GLY:C	1:D:484:VAL:CG2	2.89	0.45
1:E:141:PHE:N	1:E:141:PHE:HD1	2.14	0.45
1:E:210:PHE:HZ	1:E:221:ASN:OD1	1.98	0.45
1:E:296:LEU:O	1:E:301:ALA:HB2	2.17	0.45
1:E:700:TYR:CD1	1:E:727:GLN:HB3	2.52	0.45
1:F:227:ILE:O	1:F:227:ILE:HG22	2.16	0.45
2:O:138:TYR:CZ	2:O:142:VAL:HG21	2.51	0.45
2:Q:94:LYS:HB3	2:Q:94:LYS:HZ2	1.81	0.45
2:S:16:PHE:CE1	2:S:27:ILE:HD13	2.52	0.45
2:S:129:ASP:OD1	2:S:134:GLY:N	2.48	0.45
2:T:138:TYR:CZ	2:T:142:VAL:CG2	2.99	0.45
1:A:191:GLU:O	1:A:192:PHE:C	2.59	0.45
1:A:345:THR:O	1:A:479:LYS:HE2	2.17	0.45
1:A:391:ILE:CG1	1:A:399:GLY:HA2	2.43	0.45
1:A:478:ALA:CB	1:A:486:LYS:O	2.62	0.45
1:A:686:ASP:O	1:A:689:ALA:HB3	2.15	0.45
1:B:318:ILE:HD12	1:B:318:ILE:N	2.24	0.45
1:C:234:LEU:HD23	1:C:234:LEU:N	2.32	0.45
1:C:252:ASP:OD2	1:C:253:HIS:CD2	2.70	0.45
1:C:533:LEU:HD12	2:Q:112:LEU:HD11	1.98	0.45
1:D:670:ILE:O	1:D:671:ARG:C	2.59	0.45
1:F:152:LEU:HD21	1:F:154:ILE:HD11	1.99	0.45
1:F:279:ILE:HG22	1:F:283:LEU:HD13	1.99	0.45
1:F:306:GLY:O	1:F:307:LEU:C	2.57	0.45
1:F:637:PRO:O	1:F:638:GLY:C	2.59	0.45
2:O:16:PHE:CE1	2:O:27:ILE:HD13	2.52	0.45
2:O:94:LYS:HB3	2:O:94:LYS:HZ2	1.80	0.45
2:O:111:ASN:C	2:O:113:GLY:H	2.24	0.45
2:P:28:THR:OG1	2:P:30:LYS:HE2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:16:PHE:CE1	2:S:27:ILE:CD1	2.98	0.45
2:S:36:MSE:O	2:S:37:ARG:C	2.59	0.45
2:S:102:ALA:HB1	2:S:121:VAL:CG1	2.46	0.45
2:T:111:ASN:C	2:T:113:GLY:H	2.25	0.45
1:A:296:LEU:O	1:A:301:ALA:HB2	2.16	0.45
1:A:552:TRP:HA	1:A:555:GLN:HG2	1.97	0.45
1:A:581:GLN:HB3	1:A:627:TYR:HE1	1.82	0.45
1:A:629:ASN:HB3	1:A:632:TYR:CE1	2.51	0.45
1:B:74:GLU:C	1:B:75:THR:O	2.57	0.45
1:B:357:TRP:CZ3	1:B:439:ASN:HB2	2.52	0.45
1:C:104:ILE:HG23	1:C:152:LEU:CD2	2.47	0.45
1:C:141:PHE:N	1:C:141:PHE:HD1	2.14	0.45
1:C:210:PHE:CD1	1:C:210:PHE:C	2.94	0.45
1:C:307:LEU:H	1:C:307:LEU:CD1	2.29	0.45
1:D:529:VAL:O	1:D:532:LEU:HB2	2.16	0.45
1:D:697:ILE:O	1:D:699:GLY:N	2.50	0.45
1:E:311:HIS:O	1:E:314:ALA:N	2.49	0.45
1:E:483:GLY:C	1:E:484:VAL:CG2	2.90	0.45
1:E:611:THR:HG22	1:E:615:ILE:HD11	1.98	0.45
1:F:141:PHE:N	1:F:141:PHE:HD1	2.14	0.45
1:F:333:LYS:HA	1:F:336:THR:OG1	2.17	0.45
1:F:357:TRP:CH2	1:F:439:ASN:ND2	2.85	0.45
1:F:550:SER:HB3	1:F:553:GLN:CG	2.38	0.45
1:F:778:LYS:HE3	1:F:778:LYS:HB3	1.76	0.45
2:Q:55:VAL:CG2	2:Q:67:GLU:CD	2.88	0.45
2:Q:61:GLY:C	2:Q:62:THR:HG22	2.40	0.45
2:Q:138:TYR:CZ	2:Q:142:VAL:CG2	2.99	0.45
2:R:36:MSE:O	2:R:37:ARG:C	2.59	0.45
2:S:81:SER:C	2:S:83:GLU:N	2.73	0.45
2:T:16:PHE:CE1	2:T:27:ILE:HD13	2.51	0.45
2:T:58:ASP:C	2:T:59:GLY:O	2.54	0.45
1:A:227:ILE:O	1:A:227:ILE:HG22	2.16	0.45
1:A:357:TRP:CH2	1:A:439:ASN:ND2	2.84	0.45
1:A:515:LYS:HZ1	1:A:516:VAL:CG2	2.30	0.45
1:A:597:ASN:HD21	1:A:601:GLU:CB	2.09	0.45
1:A:700:TYR:CD1	1:A:727:GLN:C	2.94	0.45
1:B:238:GLN:O	1:B:240:ALA:N	2.50	0.45
1:B:299:GLU:HA	1:B:302:LEU:HB3	1.99	0.45
1:B:492:TYR:CE2	1:B:574:VAL:HG21	2.52	0.45
1:B:509:PRO:HG2	1:B:512:GLU:HG3	1.98	0.45
1:B:660:SER:O	1:B:663:PHE:HB3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:141:PHE:HD1	1:D:141:PHE:H	1.63	0.45
1:D:299:GLU:HA	1:D:302:LEU:HB3	1.98	0.45
1:D:700:TYR:CD1	1:D:727:GLN:C	2.95	0.45
1:E:78:LYS:HD2	1:E:156:ILE:HD13	1.99	0.45
1:E:345:THR:O	1:E:479:LYS:HE2	2.16	0.45
1:E:481:VAL:O	1:E:482:GLU:HB2	2.15	0.45
1:E:629:ASN:HB3	1:E:632:TYR:CE1	2.52	0.45
1:F:739:LYS:HG2	1:F:740:GLN:N	2.30	0.45
2:P:97:ASN:ND2	2:P:99:TYR:H	2.14	0.45
1:A:306:GLY:O	1:A:307:LEU:C	2.57	0.45
1:A:368:GLN:HG3	1:A:383:GLY:C	2.42	0.45
1:A:375:GLY:O	1:A:377:GLN:N	2.49	0.45
1:A:611:THR:HG22	1:A:615:ILE:HD11	1.97	0.45
1:B:606:LYS:HB2	1:B:610:MET:HE1	1.99	0.45
1:B:637:PRO:O	1:B:638:GLY:C	2.59	0.45
1:C:165:GLN:OE1	1:C:252:ASP:HB3	2.16	0.45
1:C:606:LYS:HB2	1:C:610:MET:HE1	1.99	0.45
1:C:670:ILE:O	1:C:671:ARG:C	2.58	0.45
1:C:700:TYR:CD1	1:C:727:GLN:HB3	2.51	0.45
1:D:104:ILE:HG23	1:D:152:LEU:CD2	2.47	0.45
1:D:191:GLU:O	1:D:192:PHE:C	2.58	0.45
1:D:527:LYS:HG2	2:R:145:MSE:SE	2.66	0.45
1:D:709:ASN:O	1:D:717:LYS:HE3	2.16	0.45
1:E:134:LYS:HZ3	1:E:136:PRO:HG3	1.82	0.45
1:E:278:LYS:O	1:E:281:GLU:N	2.49	0.45
1:E:297:LYS:HB3	1:E:297:LYS:NZ	2.32	0.45
1:E:325:TYR:CD1	1:E:598:PRO:HD3	2.52	0.45
1:E:368:GLN:HG3	1:E:383:GLY:C	2.41	0.45
1:E:478:ALA:CB	1:E:486:LYS:O	2.63	0.45
1:F:278:LYS:CB	1:F:279:ILE:HD13	2.47	0.45
1:F:523:LEU:HD22	2:T:127:GLU:HG2	1.99	0.45
2:O:28:THR:OG1	2:O:30:LYS:HE2	2.17	0.45
2:O:102:ALA:HB1	2:O:121:VAL:CG1	2.46	0.45
2:P:69:LEU:HD12	2:P:69:LEU:O	2.17	0.45
2:R:66:PRO:C	2:R:68:PHE:H	2.24	0.45
2:S:105:LEU:HD21	2:S:124:MSE:SE	2.67	0.45
2:T:117:THR:O	2:T:118:ASP:C	2.59	0.45
1:A:74:GLU:C	1:A:75:THR:O	2.58	0.45
1:A:403:LEU:CD2	1:A:474:ILE:HG21	2.47	0.45
1:B:88:LYS:NZ	1:B:172:GLU:CD	2.75	0.45
1:C:412:GLU:C	1:C:414:LYS:N	2.75	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:602:PHE:CD2	1:C:602:PHE:N	2.84	0.45
1:D:134:LYS:C	1:D:136:PRO:HD3	2.41	0.45
1:D:278:LYS:O	1:D:281:GLU:N	2.49	0.45
1:D:318:ILE:HG23	1:D:322:LEU:HD12	1.97	0.45
1:D:611:THR:HG22	1:D:615:ILE:HD11	1.98	0.45
1:D:697:ILE:HG12	1:D:732:ILE:HD13	1.99	0.45
1:E:333:LYS:C	1:E:335:ALA:H	2.25	0.45
1:F:238:GLN:O	1:F:240:ALA:N	2.50	0.45
1:F:285:LYS:C	1:F:287:GLY:N	2.75	0.45
1:F:296:LEU:O	1:F:301:ALA:HB2	2.17	0.45
1:F:368:GLN:HG3	1:F:383:GLY:C	2.42	0.45
2:P:66:PRO:C	2:P:68:PHE:H	2.25	0.45
2:Q:46:ALA:HA	2:Q:49:GLN:NE2	2.32	0.45
2:S:3:GLN:N	2:S:77:LYS:HD3	2.32	0.45
2:S:81:SER:O	2:S:83:GLU:N	2.50	0.45
2:T:55:VAL:CG2	2:T:67:GLU:CD	2.89	0.45
1:A:307:LEU:H	1:A:307:LEU:CD1	2.29	0.45
1:A:414:LYS:C	1:A:416:ASN:H	2.23	0.45
1:A:759:GLN:NE2	1:A:762:LEU:HD23	2.32	0.45
1:B:100:LEU:HD13	1:B:182:ILE:HG21	1.99	0.45
1:B:443:GLU:HG3	1:B:458:LYS:HZ2	1.82	0.45
1:B:447:SER:OG	1:B:448:ASP:N	2.49	0.45
1:C:275:GLY:CA	1:C:278:LYS:HG3	2.43	0.45
1:C:278:LYS:O	1:C:281:GLU:N	2.49	0.45
1:C:279:ILE:HG22	1:C:283:LEU:HD13	1.98	0.45
1:C:357:TRP:CH2	1:C:439:ASN:ND2	2.85	0.45
1:C:700:TYR:CD1	1:C:727:GLN:C	2.95	0.45
1:C:709:ASN:O	1:C:717:LYS:HE3	2.16	0.45
1:D:112:VAL:CG1	1:D:113:GLU:H	2.07	0.45
1:D:238:GLN:O	1:D:240:ALA:N	2.49	0.45
1:D:307:LEU:H	1:D:307:LEU:CD1	2.30	0.45
1:D:357:TRP:CH2	1:D:439:ASN:ND2	2.85	0.45
1:D:357:TRP:CZ3	1:D:439:ASN:HB2	2.51	0.45
1:E:183:SER:HB3	1:E:184:LYS:H	1.51	0.45
1:E:275:GLY:CA	1:E:278:LYS:HG3	2.44	0.45
1:E:552:TRP:HA	1:E:555:GLN:HG2	1.99	0.45
1:F:123:GLU:CG	1:F:124:GLU:N	2.80	0.45
1:F:191:GLU:O	1:F:192:PHE:C	2.59	0.45
1:F:278:LYS:HB2	1:F:279:ILE:CD1	2.47	0.45
1:F:318:ILE:HG23	1:F:322:LEU:HD12	1.98	0.45
2:O:55:VAL:CG2	2:O:67:GLU:CD	2.89	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:109:MSE:HG3	2:Q:116:LEU:CD1	2.44	0.45
2:R:111:ASN:C	2:R:113:GLY:H	2.24	0.45
2:S:66:PRO:C	2:S:68:PHE:H	2.25	0.45
2:S:69:LEU:HD12	2:S:69:LEU:O	2.17	0.45
1:A:141:PHE:N	1:A:141:PHE:HD1	2.14	0.45
1:A:579:THR:C	1:A:581:GLN:H	2.24	0.45
1:A:606:LYS:HB2	1:A:610:MET:HE1	1.99	0.45
1:A:718:ARG:O	1:A:722:ILE:HG13	2.17	0.45
1:B:122:GLU:HG3	1:B:147:ARG:H	1.81	0.45
1:B:134:LYS:C	1:B:136:PRO:HD3	2.41	0.45
1:B:397:GLU:HA	1:B:480:ASN:HB2	1.98	0.45
1:B:746:LYS:HG2	1:B:750:GLN:HE21	1.82	0.45
1:B:759:GLN:NE2	1:B:762:LEU:HD23	2.32	0.45
1:C:299:GLU:HA	1:C:302:LEU:HB3	1.98	0.45
1:C:305:SER:O	1:C:331:VAL:HG23	2.17	0.45
1:C:403:LEU:CD2	1:C:474:ILE:HG21	2.46	0.45
1:C:529:VAL:O	1:C:532:LEU:HB2	2.17	0.45
1:D:285:LYS:O	1:D:288:VAL:HG22	2.16	0.45
1:D:403:LEU:CD2	1:D:474:ILE:HG21	2.46	0.45
1:D:515:LYS:HZ3	1:D:516:VAL:HG23	1.82	0.45
1:D:533:LEU:HD12	2:R:112:LEU:HD11	1.99	0.45
1:D:558:ASP:O	1:D:559:ARG:C	2.60	0.45
1:D:579:THR:O	1:D:581:GLN:N	2.49	0.45
1:E:279:ILE:HG22	1:E:283:LEU:HD13	1.99	0.45
1:E:565:LYS:C	1:E:567:THR:N	2.69	0.45
1:E:666:ASN:HB2	1:E:748:TYR:OH	2.16	0.45
1:F:78:LYS:HD2	1:F:156:ILE:HD13	1.98	0.45
1:F:88:LYS:NZ	1:F:172:GLU:CD	2.75	0.45
1:F:275:GLY:O	1:F:278:LYS:HB2	2.17	0.45
1:F:297:LYS:NZ	1:F:297:LYS:HB3	2.32	0.45
1:F:333:LYS:C	1:F:335:ALA:H	2.25	0.45
1:F:398:ILE:HD13	1:F:479:LYS:HA	1.99	0.45
1:F:447:SER:OG	1:F:448:ASP:N	2.50	0.45
1:F:666:ASN:HB2	1:F:748:TYR:OH	2.16	0.45
2:O:66:PRO:C	2:O:68:PHE:H	2.25	0.45
2:O:141:PHE:CZ	2:O:145:MSE:HE3	2.52	0.45
2:T:49:GLN:O	2:T:53:ASN:N	2.44	0.45
1:A:104:ILE:HG23	1:A:152:LEU:CD2	2.47	0.45
1:A:134:LYS:C	1:A:136:PRO:HD3	2.41	0.45
1:A:275:GLY:O	1:A:278:LYS:HB2	2.17	0.45
1:A:333:LYS:C	1:A:335:ALA:H	2.25	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:412:GLU:C	1:A:414:LYS:N	2.75	0.45
1:A:709:ASN:O	1:A:717:LYS:HE3	2.16	0.45
1:B:552:TRP:HA	1:B:555:GLN:HG2	1.98	0.45
1:C:483:GLY:C	1:C:484:VAL:CG2	2.89	0.45
1:C:515:LYS:HZ3	1:C:516:VAL:CG2	2.30	0.45
1:C:697:ILE:HD13	1:C:732:ILE:HD13	1.99	0.45
1:D:329:ARG:HB3	1:D:330:PRO:CD	2.46	0.45
1:D:412:GLU:C	1:D:414:LYS:N	2.74	0.45
1:D:477:MET:HA	1:D:477:MET:HE3	1.98	0.45
1:E:90:PRO:O	1:E:93:VAL:N	2.50	0.45
1:E:307:LEU:H	1:E:307:LEU:CD1	2.29	0.45
1:E:376:GLN:O	1:E:380:VAL:HG23	2.17	0.45
1:F:275:GLY:CA	1:F:278:LYS:HG3	2.43	0.45
1:F:357:TRP:CZ3	1:F:439:ASN:ND2	2.85	0.45
1:F:375:GLY:O	1:F:377:GLN:N	2.50	0.45
1:F:444:PHE:N	1:F:444:PHE:CD1	2.85	0.45
1:F:492:TYR:CE2	1:F:574:VAL:HG21	2.52	0.45
1:F:581:GLN:HB3	1:F:627:TYR:HE1	1.82	0.45
2:Q:97:ASN:ND2	2:Q:99:TYR:H	2.14	0.45
2:S:61:GLY:C	2:S:62:THR:HG22	2.41	0.45
1:A:83:GLN:O	1:A:84:ASP:C	2.59	0.45
1:A:136:PRO:HG2	1:A:139:SER:OG	2.17	0.45
1:A:278:LYS:O	1:A:281:GLU:N	2.50	0.45
1:A:376:GLN:O	1:A:380:VAL:HG23	2.17	0.45
1:A:580:GLU:O	1:A:583:ASN:HB2	2.17	0.45
1:A:697:ILE:C	1:A:699:GLY:N	2.67	0.45
1:B:141:PHE:N	1:B:141:PHE:HD1	2.14	0.45
1:B:296:LEU:O	1:B:301:ALA:HB2	2.17	0.45
1:B:395:GLU:OE1	1:B:395:GLU:O	2.35	0.45
1:B:611:THR:HG22	1:B:615:ILE:HD11	1.99	0.45
1:B:622:LYS:HD3	1:B:622:LYS:HA	1.51	0.45
1:B:697:ILE:O	1:B:699:GLY:N	2.47	0.45
1:C:318:ILE:O	1:C:319:ALA:C	2.59	0.45
1:C:636:ALA:HA	1:C:637:PRO:HD3	1.85	0.45
1:C:746:LYS:HG2	1:C:750:GLN:HE21	1.82	0.45
1:D:279:ILE:HG22	1:D:283:LEU:HD13	1.98	0.45
1:D:357:TRP:HZ3	1:D:439:ASN:HB2	1.82	0.45
1:D:391:ILE:CG1	1:D:399:GLY:HA2	2.40	0.45
1:D:759:GLN:NE2	1:D:762:LEU:HD23	2.32	0.45
1:E:238:GLN:O	1:E:240:ALA:N	2.50	0.45
1:E:376:GLN:C	1:E:378:LEU:N	2.75	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:403:LEU:CD2	1:F:474:ILE:HG21	2.46	0.45
1:F:660:SER:O	1:F:663:PHE:HB3	2.16	0.45
2:O:65:PHE:CB	2:O:66:PRO:HD3	2.38	0.45
2:P:3:GLN:N	2:P:77:LYS:HD3	2.32	0.45
2:P:49:GLN:O	2:P:53:ASN:N	2.43	0.45
2:Q:69:LEU:HD12	2:Q:69:LEU:O	2.17	0.45
2:Q:111:ASN:C	2:Q:113:GLY:H	2.24	0.45
2:R:39:LEU:HD23	2:R:39:LEU:HA	1.74	0.45
2:R:97:ASN:ND2	2:R:99:TYR:H	2.15	0.45
1:A:134:LYS:HZ3	1:A:136:PRO:HG3	1.82	0.44
1:B:93:VAL:HG23	1:B:179:LEU:CD1	2.40	0.44
1:B:227:ILE:O	1:B:227:ILE:HG22	2.16	0.44
1:B:234:LEU:HD23	1:B:234:LEU:N	2.31	0.44
1:B:368:GLN:HG3	1:B:383:GLY:C	2.42	0.44
1:B:376:GLN:O	1:B:378:LEU:N	2.50	0.44
1:B:478:ALA:HB1	1:B:486:LYS:C	2.42	0.44
1:B:667:LEU:O	1:B:668:SER:C	2.59	0.44
1:C:76:LEU:CD2	1:C:76:LEU:N	2.80	0.44
1:C:90:PRO:O	1:C:93:VAL:N	2.50	0.44
1:C:296:LEU:O	1:C:301:ALA:HB2	2.16	0.44
1:D:182:ILE:O	1:D:182:ILE:HD13	2.17	0.44
1:D:227:ILE:O	1:D:227:ILE:HG22	2.15	0.44
1:D:375:GLY:O	1:D:377:GLN:N	2.50	0.44
1:E:509:PRO:HG2	1:E:512:GLU:HG3	1.99	0.44
1:E:670:ILE:O	1:E:671:ARG:C	2.59	0.44
1:F:154:ILE:CG1	1:F:171:TYR:CE1	2.88	0.44
1:F:186:LYS:O	1:F:186:LYS:HG2	2.17	0.44
1:F:622:LYS:HD3	1:F:622:LYS:HA	1.51	0.44
1:F:629:ASN:HB3	1:F:632:TYR:CE1	2.52	0.44
1:F:700:TYR:CD1	1:F:727:GLN:C	2.95	0.44
2:P:32:LEU:O	2:P:33:GLY:C	2.60	0.44
2:Q:66:PRO:C	2:Q:68:PHE:H	2.24	0.44
1:A:135:VAL:N	1:A:136:PRO:CD	2.81	0.44
1:A:297:LYS:NZ	1:A:297:LYS:HB3	2.32	0.44
1:A:447:SER:OG	1:A:448:ASP:N	2.49	0.44
1:A:558:ASP:O	1:A:559:ARG:C	2.61	0.44
1:B:307:LEU:H	1:B:307:LEU:CD1	2.29	0.44
1:B:376:GLN:C	1:B:378:LEU:N	2.76	0.44
1:B:412:GLU:C	1:B:414:LYS:N	2.75	0.44
1:B:424:LYS:NZ	1:B:424:LYS:HB3	2.32	0.44
1:C:285:LYS:C	1:C:287:GLY:N	2.75	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:345:THR:O	1:C:479:LYS:HE2	2.16	0.44
1:C:552:TRP:HA	1:C:555:GLN:HG2	1.99	0.44
1:D:172:GLU:O	1:D:176:GLY:N	2.34	0.44
1:D:252:ASP:OD2	1:D:253:HIS:CD2	2.70	0.44
1:D:325:TYR:CD1	1:D:598:PRO:HD3	2.52	0.44
1:D:444:PHE:CD1	1:D:444:PHE:N	2.85	0.44
1:E:148:GLU:CG	1:E:149:THR:N	2.75	0.44
1:E:318:ILE:HG23	1:E:322:LEU:HD12	1.98	0.44
1:E:376:GLN:O	1:E:378:LEU:N	2.50	0.44
1:E:412:GLU:C	1:E:414:LYS:N	2.74	0.44
1:E:529:VAL:O	1:E:532:LEU:HB2	2.17	0.44
1:E:785:ASN:O	1:E:785:ASN:OD1	2.35	0.44
1:F:90:PRO:O	1:F:93:VAL:N	2.51	0.44
1:F:234:LEU:HD23	1:F:234:LEU:N	2.32	0.44
1:F:307:LEU:H	1:F:307:LEU:CD1	2.30	0.44
1:F:318:ILE:H	1:F:318:ILE:CD1	2.27	0.44
1:F:424:LYS:NZ	1:F:424:LYS:HB3	2.31	0.44
1:F:509:PRO:HD2	1:F:536:TYR:CE2	2.52	0.44
1:F:709:ASN:O	1:F:717:LYS:HE3	2.17	0.44
2:Q:3:GLN:N	2:Q:77:LYS:HD3	2.32	0.44
2:Q:105:LEU:HD21	2:Q:124:MSE:SE	2.67	0.44
2:R:102:ALA:HB1	2:R:121:VAL:CG1	2.44	0.44
2:S:28:THR:OG1	2:S:30:LYS:HE2	2.17	0.44
2:S:138:TYR:CZ	2:S:142:VAL:HG21	2.53	0.44
2:T:66:PRO:C	2:T:68:PHE:H	2.25	0.44
1:A:90:PRO:O	1:A:93:VAL:N	2.49	0.44
1:A:234:LEU:HD23	1:A:234:LEU:N	2.32	0.44
1:A:635:ILE:N	1:A:635:ILE:CD1	2.71	0.44
1:B:333:LYS:C	1:B:335:ALA:H	2.25	0.44
1:B:697:ILE:HG12	1:B:732:ILE:HD13	1.98	0.44
1:C:180:ASP:C	1:C:182:ILE:N	2.76	0.44
1:C:296:LEU:HD22	1:C:606:LYS:HE2	1.99	0.44
1:C:333:LYS:HA	1:C:336:THR:OG1	2.17	0.44
1:C:444:PHE:N	1:C:444:PHE:CD1	2.86	0.44
1:C:579:THR:C	1:C:581:GLN:N	2.73	0.44
1:C:794:GLN:O	1:C:797:ILE:HG12	2.18	0.44
1:D:279:ILE:C	1:D:281:GLU:N	2.76	0.44
1:D:376:GLN:O	1:D:380:VAL:HG23	2.17	0.44
1:D:509:PRO:HD2	1:D:536:TYR:CE2	2.52	0.44
1:E:697:ILE:O	1:E:699:GLY:N	2.48	0.44
1:E:700:TYR:CD1	1:E:727:GLN:C	2.95	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:135:VAL:N	1:F:136:PRO:CD	2.80	0.44
1:F:345:THR:O	1:F:479:LYS:HE2	2.17	0.44
1:F:478:ALA:CB	1:F:486:LYS:O	2.61	0.44
1:F:606:LYS:HB2	1:F:610:MET:HE1	1.99	0.44
2:O:69:LEU:HD12	2:O:69:LEU:O	2.17	0.44
2:P:88:ALA:O	2:P:91:VAL:HB	2.17	0.44
2:R:109:MSE:HG3	2:R:116:LEU:CD1	2.45	0.44
2:S:141:PHE:CZ	2:S:145:MSE:HE3	2.51	0.44
1:A:78:LYS:HD2	1:A:156:ILE:HD13	1.99	0.44
1:A:97:TYR:OH	1:A:150:PRO:HB2	2.17	0.44
1:A:252:ASP:CG	1:A:253:HIS:N	2.76	0.44
1:A:408:LEU:HD12	1:A:408:LEU:N	2.04	0.44
1:A:533:LEU:HD12	2:O:112:LEU:HD11	1.99	0.44
1:A:629:ASN:ND2	1:A:629:ASN:C	2.62	0.44
1:A:700:TYR:HD1	1:A:728:ALA:N	2.16	0.44
1:B:88:LYS:HZ3	1:B:172:GLU:CD	2.26	0.44
1:B:477:MET:HA	1:B:477:MET:HE3	1.99	0.44
1:B:629:ASN:HB3	1:B:632:TYR:CE1	2.53	0.44
1:C:120:LEU:C	1:C:120:LEU:HD13	2.43	0.44
1:C:323:ASN:C	1:C:323:ASN:HD22	2.26	0.44
1:C:357:TRP:CZ3	1:C:439:ASN:HB2	2.51	0.44
1:C:357:TRP:CZ3	1:C:439:ASN:ND2	2.84	0.44
1:C:629:ASN:HB3	1:C:632:TYR:CE1	2.52	0.44
1:D:88:LYS:NZ	1:D:172:GLU:CD	2.75	0.44
1:D:216:GLU:HA	1:D:219:GLU:OE2	2.17	0.44
1:D:285:LYS:C	1:D:287:GLY:N	2.75	0.44
1:D:296:LEU:O	1:D:301:ALA:HB2	2.17	0.44
1:D:318:ILE:O	1:D:319:ALA:C	2.59	0.44
1:D:345:THR:O	1:D:479:LYS:HE2	2.17	0.44
1:D:794:GLN:O	1:D:797:ILE:HG12	2.18	0.44
1:E:424:LYS:NZ	1:E:424:LYS:HB3	2.32	0.44
1:F:325:TYR:CD1	1:F:598:PRO:HD3	2.52	0.44
1:F:357:TRP:CZ3	1:F:439:ASN:HB2	2.52	0.44
1:F:580:GLU:O	1:F:583:ASN:HB2	2.17	0.44
1:F:697:ILE:O	1:F:699:GLY:N	2.49	0.44
1:F:794:GLN:O	1:F:797:ILE:HG12	2.17	0.44
2:O:32:LEU:O	2:O:33:GLY:C	2.61	0.44
2:P:105:LEU:HD21	2:P:124:MSE:SE	2.68	0.44
2:R:32:LEU:O	2:R:33:GLY:C	2.61	0.44
2:R:46:ALA:HA	2:R:49:GLN:NE2	2.33	0.44
2:R:76:MSE:HA	2:R:79:THR:HG22	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:117:THR:O	2:R:118:ASP:C	2.59	0.44
2:S:32:LEU:O	2:S:33:GLY:C	2.60	0.44
2:S:111:ASN:C	2:S:113:GLY:H	2.25	0.44
2:T:141:PHE:CZ	2:T:145:MSE:HE3	2.52	0.44
1:A:100:LEU:HD13	1:A:182:ILE:HG21	1.99	0.44
1:A:376:GLN:O	1:A:378:LEU:N	2.51	0.44
1:A:414:LYS:HA	1:A:414:LYS:HZ3	1.81	0.44
1:A:622:LYS:HD3	1:A:622:LYS:HA	1.51	0.44
1:A:746:LYS:HG2	1:A:750:GLN:HE21	1.82	0.44
1:B:357:TRP:CH2	1:B:439:ASN:ND2	2.85	0.44
1:B:523:LEU:HD22	2:P:127:GLU:HG2	2.00	0.44
1:C:93:VAL:HG23	1:C:179:LEU:CD1	2.43	0.44
1:C:375:GLY:O	1:C:377:GLN:N	2.50	0.44
1:C:477:MET:HA	1:C:477:MET:HE3	1.98	0.44
1:C:697:ILE:HG12	1:C:732:ILE:HD13	2.00	0.44
1:C:736:LEU:HD11	1:C:750:GLN:HE21	1.80	0.44
1:D:136:PRO:HG2	1:D:139:SER:OG	2.17	0.44
1:D:333:LYS:C	1:D:335:ALA:H	2.26	0.44
1:D:540:ARG:NH1	1:D:627:TYR:CE1	2.86	0.44
1:D:718:ARG:O	1:D:722:ILE:HG13	2.17	0.44
1:E:375:GLY:O	1:E:377:GLN:N	2.51	0.44
1:E:444:PHE:CD1	1:E:444:PHE:N	2.86	0.44
1:E:447:SER:OG	1:E:448:ASP:N	2.49	0.44
1:E:794:GLN:O	1:E:797:ILE:HG12	2.18	0.44
1:F:136:PRO:HG2	1:F:139:SER:OG	2.18	0.44
1:F:180:ASP:C	1:F:182:ILE:N	2.76	0.44
1:F:323:ASN:C	1:F:323:ASN:HD22	2.26	0.44
1:F:581:GLN:O	1:F:629:ASN:HA	2.17	0.44
2:O:97:ASN:ND2	2:O:99:TYR:H	2.16	0.44
2:O:105:LEU:HD21	2:O:124:MSE:SE	2.67	0.44
2:S:62:THR:CG2	2:S:62:THR:HB	2.19	0.44
2:T:36:MSE:O	2:T:37:ARG:C	2.60	0.44
2:T:42:ASN:HA	2:T:43:PRO:HD2	1.89	0.44
2:T:102:ALA:HB1	2:T:121:VAL:CG1	2.46	0.44
1:A:318:ILE:HG23	1:A:322:LEU:HD12	1.98	0.44
1:A:391:ILE:O	1:A:392:THR:C	2.61	0.44
1:A:540:ARG:NH1	1:A:627:TYR:CE1	2.85	0.44
1:A:694:VAL:C	1:A:696:LYS:N	2.75	0.44
1:B:444:PHE:CD1	1:B:444:PHE:N	2.86	0.44
1:C:238:GLN:O	1:C:240:ALA:N	2.50	0.44
1:C:275:GLY:O	1:C:278:LYS:HB2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:622:LYS:HA	1:C:622:LYS:HD3	1.52	0.44
1:C:759:GLN:NE2	1:C:762:LEU:HD23	2.32	0.44
1:D:78:LYS:HD2	1:D:156:ILE:HD13	1.99	0.44
1:D:135:VAL:N	1:D:136:PRO:CD	2.81	0.44
1:D:447:SER:OG	1:D:448:ASP:N	2.49	0.44
1:D:629:ASN:ND2	1:D:629:ASN:C	2.65	0.44
1:D:792:VAL:O	1:D:795:LYS:HB2	2.18	0.44
1:E:398:ILE:HD13	1:E:479:LYS:HA	2.00	0.44
1:E:660:SER:O	1:E:663:PHE:HB3	2.18	0.44
1:F:299:GLU:HA	1:F:302:LEU:HB3	1.99	0.44
2:O:117:THR:O	2:O:118:ASP:C	2.58	0.44
2:P:28:THR:CB	2:P:30:LYS:HZ1	2.31	0.44
2:P:46:ALA:HA	2:P:49:GLN:NE2	2.33	0.44
2:Q:36:MSE:O	2:Q:37:ARG:C	2.59	0.44
2:R:138:TYR:CZ	2:R:142:VAL:HG21	2.53	0.44
2:T:55:VAL:CB	2:T:67:GLU:OE2	2.60	0.44
1:A:88:LYS:NZ	1:A:172:GLU:CD	2.76	0.44
1:A:325:TYR:CD1	1:A:598:PRO:HD3	2.53	0.44
1:A:444:PHE:CD1	1:A:444:PHE:N	2.85	0.44
1:B:135:VAL:N	1:B:136:PRO:CD	2.80	0.44
1:B:252:ASP:OD2	1:B:253:HIS:CD2	2.70	0.44
1:B:297:LYS:NZ	1:B:297:LYS:HB3	2.33	0.44
1:B:391:ILE:O	1:B:392:THR:C	2.61	0.44
1:C:97:TYR:OH	1:C:150:PRO:HB2	2.18	0.44
1:C:135:VAL:N	1:C:136:PRO:CD	2.80	0.44
1:C:311:HIS:O	1:C:314:ALA:N	2.50	0.44
1:D:108:ASP:CG	1:D:109:ILE:H	2.26	0.44
1:D:275:GLY:O	1:D:278:LYS:HB2	2.18	0.44
1:D:288:VAL:CG2	1:D:289:GLU:N	2.78	0.44
1:D:297:LYS:NZ	1:D:297:LYS:HB3	2.32	0.44
1:D:372:LYS:C	1:D:374:HIS:H	2.26	0.44
1:D:403:LEU:CG	1:D:405:LEU:CD1	2.95	0.44
1:D:424:LYS:HZ2	1:D:424:LYS:HB3	1.83	0.44
1:D:627:TYR:CD1	1:D:627:TYR:C	2.96	0.44
1:D:636:ALA:HA	1:D:637:PRO:HD3	1.86	0.44
1:D:746:LYS:HG2	1:D:750:GLN:HE21	1.82	0.44
1:E:83:GLN:O	1:E:84:ASP:C	2.60	0.44
1:E:182:ILE:O	1:E:182:ILE:HD13	2.18	0.44
1:E:234:LEU:HD23	1:E:234:LEU:N	2.32	0.44
1:E:285:LYS:C	1:E:287:GLY:N	2.75	0.44
1:E:700:TYR:HD1	1:E:728:ALA:N	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:120:LEU:C	1:F:120:LEU:HD13	2.43	0.44
1:F:357:TRP:HZ3	1:F:439:ASN:HB2	1.83	0.44
1:F:376:GLN:C	1:F:378:LEU:N	2.76	0.44
1:F:533:LEU:HD12	2:T:112:LEU:HD11	1.99	0.44
1:F:708:ALA:C	1:F:710:HIS:H	2.26	0.44
2:P:138:TYR:CZ	2:P:142:VAL:HG21	2.52	0.44
2:T:3:GLN:N	2:T:77:LYS:HD3	2.32	0.44
2:T:69:LEU:HD12	2:T:69:LEU:O	2.18	0.44
1:A:165:GLN:HG2	1:A:251:PRO:HG2	2.00	0.44
1:A:279:ILE:C	1:A:281:GLU:N	2.75	0.44
1:A:318:ILE:O	1:A:319:ALA:C	2.59	0.44
1:A:627:TYR:CD1	1:A:627:TYR:C	2.96	0.44
1:A:660:SER:O	1:A:663:PHE:HB3	2.18	0.44
1:B:104:ILE:HG23	1:B:152:LEU:CD2	2.48	0.44
1:B:180:ASP:C	1:B:182:ILE:N	2.75	0.44
1:B:333:LYS:HA	1:B:336:THR:OG1	2.18	0.44
1:B:373:LYS:O	1:B:380:VAL:CG2	2.66	0.44
1:B:666:ASN:HB2	1:B:748:TYR:OH	2.17	0.44
1:C:152:LEU:HD21	1:C:154:ILE:HD11	1.99	0.44
1:C:165:GLN:HG2	1:C:251:PRO:HG2	1.99	0.44
1:C:252:ASP:CG	1:C:253:HIS:N	2.76	0.44
1:C:297:LYS:NZ	1:C:297:LYS:HB3	2.32	0.44
1:C:333:LYS:C	1:C:335:ALA:H	2.25	0.44
1:C:558:ASP:O	1:C:559:ARG:C	2.60	0.44
1:C:667:LEU:O	1:C:668:SER:C	2.60	0.44
1:D:234:LEU:HD23	1:D:234:LEU:N	2.33	0.44
1:D:736:LEU:HD11	1:D:750:GLN:HE21	1.80	0.44
1:E:108:ASP:CG	1:E:109:ILE:H	2.24	0.44
1:E:122:GLU:HG3	1:E:147:ARG:H	1.83	0.44
1:E:279:ILE:C	1:E:281:GLU:N	2.75	0.44
1:E:372:LYS:C	1:E:374:HIS:H	2.26	0.44
1:E:405:LEU:CD1	1:E:405:LEU:H	2.27	0.44
1:E:477:MET:HA	1:E:477:MET:HE3	1.99	0.44
1:E:756:ILE:H	1:E:756:ILE:HG12	1.63	0.44
1:F:252:ASP:OD2	1:F:253:HIS:CD2	2.70	0.44
1:F:372:LYS:C	1:F:374:HIS:H	2.26	0.44
1:F:376:GLN:O	1:F:380:VAL:HG23	2.18	0.44
1:F:667:LEU:O	1:F:668:SER:C	2.60	0.44
2:Q:138:TYR:CZ	2:Q:142:VAL:HG21	2.53	0.44
2:R:13:LYS:NZ	2:R:65:PHE:CB	2.61	0.44
2:R:69:LEU:HD12	2:R:69:LEU:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:75:LYS:O	2:R:79:THR:HG22	2.18	0.44
2:T:138:TYR:CZ	2:T:142:VAL:HG21	2.53	0.44
1:A:180:ASP:C	1:A:182:ILE:N	2.75	0.44
1:A:333:LYS:HA	1:A:336:THR:OG1	2.18	0.44
1:A:764:LEU:HD23	1:A:764:LEU:HA	1.86	0.44
1:B:148:GLU:CG	1:B:149:THR:N	2.75	0.44
1:B:152:LEU:HD21	1:B:154:ILE:HD11	1.99	0.44
1:B:275:GLY:CA	1:B:278:LYS:HE3	2.36	0.44
1:B:279:ILE:C	1:B:281:GLU:N	2.76	0.44
1:B:325:TYR:CD1	1:B:598:PRO:HD3	2.52	0.44
1:C:123:GLU:CG	1:C:124:GLU:N	2.79	0.44
1:C:372:LYS:C	1:C:374:HIS:H	2.26	0.44
1:D:120:LEU:HD13	1:D:120:LEU:C	2.43	0.44
1:D:208:LEU:HD12	1:D:208:LEU:N	2.33	0.44
1:E:123:GLU:CG	1:E:124:GLU:N	2.80	0.44
1:E:135:VAL:N	1:E:136:PRO:CD	2.80	0.44
1:E:395:GLU:OE1	1:E:395:GLU:O	2.36	0.44
1:E:580:GLU:O	1:E:583:ASN:HB2	2.18	0.44
1:E:694:VAL:C	1:E:696:LYS:N	2.75	0.44
1:F:305:SER:O	1:F:331:VAL:HG23	2.18	0.44
1:F:376:GLN:O	1:F:378:LEU:N	2.50	0.44
1:F:514:ASP:C	1:F:516:VAL:N	2.76	0.44
1:F:697:ILE:HG12	1:F:732:ILE:CD1	2.48	0.44
2:P:111:ASN:C	2:P:113:GLY:H	2.24	0.44
2:Q:32:LEU:O	2:Q:33:GLY:C	2.61	0.44
2:R:65:PHE:CB	2:R:66:PRO:HD3	2.38	0.44
2:T:46:ALA:HA	2:T:49:GLN:NE2	2.33	0.44
1:A:122:GLU:HG3	1:A:147:ARG:H	1.82	0.43
1:A:186:LYS:O	1:A:186:LYS:HG2	2.17	0.43
1:A:278:LYS:HB2	1:A:279:ILE:CD1	2.48	0.43
1:A:278:LYS:CB	1:A:279:ILE:HD13	2.48	0.43
1:A:296:LEU:HD22	1:A:606:LYS:HE2	1.99	0.43
1:A:478:ALA:HB1	1:A:486:LYS:C	2.43	0.43
1:A:697:ILE:HD13	1:A:732:ILE:HD13	2.00	0.43
1:B:136:PRO:HG2	1:B:139:SER:OG	2.18	0.43
1:B:165:GLN:HG2	1:B:251:PRO:HG2	1.99	0.43
1:B:186:LYS:O	1:B:186:LYS:HG2	2.18	0.43
1:B:279:ILE:HG22	1:B:283:LEU:HD13	1.99	0.43
1:B:357:TRP:CZ3	1:B:439:ASN:ND2	2.85	0.43
1:B:357:TRP:HZ3	1:B:439:ASN:HB2	1.83	0.43
1:B:375:GLY:O	1:B:377:GLN:N	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:580:GLU:O	1:B:583:ASN:HB2	2.18	0.43
1:C:136:PRO:HG2	1:C:139:SER:OG	2.17	0.43
1:C:325:TYR:CD1	1:C:598:PRO:HD3	2.53	0.43
1:C:677:GLY:HA2	1:C:745:TYR:OH	2.18	0.43
1:C:708:ALA:C	1:C:710:HIS:H	2.26	0.43
1:D:357:TRP:CZ3	1:D:439:ASN:ND2	2.85	0.43
1:D:391:ILE:O	1:D:392:THR:C	2.61	0.43
1:D:671:ARG:NH1	1:D:671:ARG:HG3	2.33	0.43
1:D:756:ILE:H	1:D:756:ILE:HG12	1.62	0.43
1:E:318:ILE:H	1:E:318:ILE:CD1	2.28	0.43
1:E:333:LYS:HA	1:E:336:THR:OG1	2.18	0.43
1:E:558:ASP:O	1:E:559:ARG:C	2.61	0.43
1:E:606:LYS:HB2	1:E:610:MET:HE1	2.00	0.43
1:F:88:LYS:HZ3	1:F:172:GLU:CD	2.26	0.43
1:F:108:ASP:CG	1:F:109:ILE:H	2.26	0.43
1:F:122:GLU:HG3	1:F:147:ARG:H	1.83	0.43
1:F:165:GLN:HG2	1:F:251:PRO:HG2	1.99	0.43
1:F:278:LYS:O	1:F:281:GLU:N	2.49	0.43
1:F:412:GLU:C	1:F:414:LYS:N	2.75	0.43
2:O:65:PHE:O	2:O:68:PHE:HB3	2.18	0.43
2:P:109:MSE:HG3	2:P:116:LEU:CD1	2.44	0.43
2:Q:133:ASP:OD2	2:Q:135:GLN:HG3	2.18	0.43
2:S:97:ASN:ND2	2:S:99:TYR:H	2.16	0.43
1:A:148:GLU:CG	1:A:149:THR:N	2.75	0.43
1:A:182:ILE:O	1:A:182:ILE:HD13	2.18	0.43
1:A:376:GLN:C	1:A:378:LEU:N	2.76	0.43
1:A:443:GLU:O	1:A:455:TYR:HA	2.18	0.43
1:A:736:LEU:HD11	1:A:750:GLN:HE21	1.79	0.43
1:B:120:LEU:HD13	1:B:120:LEU:C	2.43	0.43
1:B:123:GLU:CG	1:B:124:GLU:N	2.79	0.43
1:B:323:ASN:C	1:B:323:ASN:ND2	2.76	0.43
1:B:694:VAL:C	1:B:696:LYS:N	2.74	0.43
1:C:523:LEU:HD22	2:Q:127:GLU:HG2	2.00	0.43
1:C:611:THR:HG22	1:C:615:ILE:HD11	1.99	0.43
1:C:718:ARG:O	1:C:722:ILE:HG13	2.18	0.43
1:D:83:GLN:O	1:D:84:ASP:C	2.60	0.43
1:D:122:GLU:HG3	1:D:147:ARG:H	1.82	0.43
1:D:296:LEU:HD22	1:D:606:LYS:HE2	1.99	0.43
1:D:697:ILE:HD13	1:D:732:ILE:HD13	2.01	0.43
1:D:700:TYR:HD1	1:D:728:ALA:N	2.16	0.43
1:E:88:LYS:NZ	1:E:172:GLU:CD	2.75	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:345:THR:OG1	1:E:573:ASP:O	2.36	0.43
1:E:581:GLN:HB3	1:E:627:TYR:HE1	1.81	0.43
1:E:694:VAL:CG2	2:S:18:LEU:HD21	2.48	0.43
1:E:697:ILE:HD13	1:E:732:ILE:HD13	2.00	0.43
1:F:173:ILE:HD12	1:F:243:LEU:HD21	2.00	0.43
1:F:240:ALA:C	1:F:242:SER:N	2.76	0.43
1:F:414:LYS:HZ3	1:F:414:LYS:HA	1.83	0.43
1:F:558:ASP:O	1:F:559:ARG:C	2.60	0.43
2:P:36:MSE:HE3	2:P:43:PRO:CG	2.38	0.43
2:P:65:PHE:CB	2:P:66:PRO:HD3	2.38	0.43
2:Q:13:LYS:NZ	2:Q:65:PHE:CB	2.62	0.43
2:Q:75:LYS:O	2:Q:79:THR:HG22	2.18	0.43
2:R:3:GLN:N	2:R:77:LYS:HD3	2.33	0.43
2:S:6:GLU:O	2:S:9:ILE:N	2.47	0.43
1:A:446:ILE:HD11	1:A:451:ASN:CB	2.41	0.43
1:A:523:LEU:HD22	2:O:127:GLU:HG2	2.00	0.43
1:B:85:LEU:HD12	1:B:168:GLU:OE1	2.18	0.43
1:B:683:GLY:O	1:B:684:ASP:C	2.61	0.43
1:C:376:GLN:O	1:C:380:VAL:HG23	2.18	0.43
1:C:395:GLU:OE1	1:C:395:GLU:O	2.36	0.43
1:C:457:THR:HG21	1:C:468:LYS:HA	2.01	0.43
1:D:376:GLN:CB	1:D:379:ALA:HB3	2.48	0.43
1:D:512:GLU:O	1:D:516:VAL:HG23	2.19	0.43
1:E:97:TYR:OH	1:E:150:PRO:HB2	2.18	0.43
1:E:115:LYS:HZ1	1:E:117:LEU:HB2	1.83	0.43
1:E:216:GLU:HA	1:E:219:GLU:OE2	2.19	0.43
1:E:708:ALA:C	1:E:710:HIS:H	2.27	0.43
1:F:792:VAL:O	1:F:795:LYS:HB2	2.18	0.43
2:O:46:ALA:HA	2:O:49:GLN:NE2	2.33	0.43
2:O:76:MSE:HA	2:O:79:THR:HG22	2.01	0.43
2:S:65:PHE:CB	2:S:66:PRO:HD3	2.38	0.43
2:T:56:ASP:OD2	2:T:60:ASN:C	2.62	0.43
2:T:105:LEU:HD21	2:T:124:MSE:SE	2.68	0.43
1:A:133:GLU:OE1	1:A:134:LYS:N	2.52	0.43
1:A:208:LEU:HD12	1:A:208:LEU:N	2.33	0.43
1:A:252:ASP:OD2	1:A:253:HIS:CD2	2.72	0.43
1:A:288:VAL:CG2	1:A:289:GLU:N	2.79	0.43
1:A:311:HIS:O	1:A:314:ALA:N	2.51	0.43
1:A:372:LYS:C	1:A:374:HIS:H	2.26	0.43
1:A:477:MET:HA	1:A:477:MET:HE3	1.99	0.43
1:A:521:ASN:HB3	1:A:524:GLU:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:71:PHE:CD2	1:B:73:ASN:HB2	2.53	0.43
1:B:99:GLU:C	1:B:101:GLY:N	2.77	0.43
1:B:133:GLU:OE1	1:B:134:LYS:N	2.52	0.43
1:B:199:LEU:O	1:B:201:ASP:N	2.51	0.43
1:B:311:HIS:O	1:B:314:ALA:N	2.52	0.43
1:B:532:LEU:HA	1:B:532:LEU:HD23	1.76	0.43
1:B:677:GLY:HA2	1:B:745:TYR:OH	2.18	0.43
1:B:700:TYR:CD1	1:B:727:GLN:C	2.95	0.43
1:B:794:GLN:O	1:B:797:ILE:HG12	2.17	0.43
1:C:398:ILE:HD13	1:C:479:LYS:HA	2.00	0.43
1:C:509:PRO:HD2	1:C:536:TYR:CE2	2.53	0.43
1:C:525:LYS:O	1:C:526:GLN:C	2.62	0.43
1:C:792:VAL:O	1:C:795:LYS:HB2	2.19	0.43
1:D:199:LEU:O	1:D:201:ASP:N	2.51	0.43
1:D:376:GLN:O	1:D:378:LEU:N	2.51	0.43
1:E:165:GLN:HG2	1:E:251:PRO:HG2	1.99	0.43
1:E:170:TYR:HA	1:E:173:ILE:CG2	2.49	0.43
1:E:173:ILE:HD12	1:E:243:LEU:HD21	2.01	0.43
1:E:184:LYS:O	1:E:185:ASP:C	2.62	0.43
1:E:697:ILE:HG12	1:E:732:ILE:HD13	2.00	0.43
1:F:611:THR:HG22	1:F:615:ILE:HD11	2.00	0.43
1:F:700:TYR:HD1	1:F:728:ALA:N	2.16	0.43
1:A:184:LYS:CE	1:A:191:GLU:HB2	2.49	0.43
1:A:373:LYS:O	1:A:380:VAL:CG2	2.67	0.43
1:B:137:PHE:C	1:B:139:SER:N	2.76	0.43
1:B:182:ILE:O	1:B:182:ILE:HD13	2.18	0.43
1:B:697:ILE:HD13	1:B:732:ILE:HD13	2.00	0.43
1:C:128:MET:HE3	1:C:239:HIS:NE2	2.34	0.43
1:C:137:PHE:C	1:C:139:SER:N	2.77	0.43
1:C:231:LYS:O	1:C:232:GLU:C	2.61	0.43
1:C:376:GLN:O	1:C:378:LEU:N	2.51	0.43
1:C:376:GLN:CB	1:C:379:ALA:HB3	2.48	0.43
1:C:581:GLN:HB3	1:C:627:TYR:HE1	1.82	0.43
1:D:186:LYS:O	1:D:186:LYS:HG2	2.17	0.43
1:D:424:LYS:HB3	1:D:424:LYS:NZ	2.32	0.43
1:D:462:ILE:CG1	1:D:463:THR:N	2.80	0.43
1:D:478:ALA:CB	1:D:486:LYS:O	2.63	0.43
1:D:543:ASP:OD1	1:D:544:SER:N	2.52	0.43
1:D:552:TRP:HA	1:D:555:GLN:HG2	1.99	0.43
1:D:716:LYS:O	1:D:717:LYS:C	2.62	0.43
1:D:785:ASN:OD1	1:D:785:ASN:O	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:137:PHE:O	1:E:140:ARG:N	2.51	0.43
1:E:478:ALA:HB1	1:E:486:LYS:C	2.43	0.43
1:F:71:PHE:CD2	1:F:73:ASN:HB2	2.53	0.43
1:F:254:ARG:HD2	1:F:254:ARG:N	2.34	0.43
1:F:478:ALA:HB1	1:F:486:LYS:C	2.42	0.43
1:F:515:LYS:HZ1	1:F:516:VAL:CG2	2.30	0.43
1:F:527:LYS:HE2	1:F:527:LYS:HB3	1.87	0.43
1:F:748:TYR:O	1:F:749:PHE:C	2.61	0.43
1:F:785:ASN:OD1	1:F:785:ASN:O	2.36	0.43
2:O:39:LEU:HD23	2:O:39:LEU:HA	1.75	0.43
2:P:36:MSE:O	2:P:37:ARG:C	2.60	0.43
2:S:106:ARG:NH2	2:S:118:ASP:OD2	2.52	0.43
1:A:120:LEU:HD13	1:A:120:LEU:C	2.43	0.43
1:A:254:ARG:HD2	1:A:254:ARG:N	2.34	0.43
1:A:697:ILE:HG12	1:A:732:ILE:CD1	2.49	0.43
1:B:216:GLU:HA	1:B:219:GLU:OE2	2.19	0.43
1:B:252:ASP:CG	1:B:253:HIS:N	2.76	0.43
1:B:512:GLU:O	1:B:516:VAL:HG23	2.19	0.43
1:B:716:LYS:O	1:B:717:LYS:C	2.62	0.43
1:C:122:GLU:HG3	1:C:147:ARG:H	1.82	0.43
1:C:278:LYS:HB2	1:C:279:ILE:CD1	2.49	0.43
1:C:660:SER:O	1:C:663:PHE:HB3	2.18	0.43
1:C:785:ASN:OD1	1:C:785:ASN:O	2.36	0.43
1:D:165:GLN:HG2	1:D:251:PRO:HG2	2.00	0.43
1:D:180:ASP:C	1:D:182:ILE:N	2.76	0.43
1:D:197:LYS:HB3	1:D:197:LYS:NZ	2.25	0.43
1:D:398:ILE:HD13	1:D:479:LYS:HA	1.99	0.43
1:D:606:LYS:HB2	1:D:610:MET:HE1	2.01	0.43
1:E:104:ILE:HG23	1:E:152:LEU:CD2	2.48	0.43
1:E:152:LEU:HD21	1:E:154:ILE:HD11	2.01	0.43
1:E:231:LYS:O	1:E:232:GLU:C	2.62	0.43
1:E:792:VAL:O	1:E:795:LYS:HB2	2.18	0.43
1:F:182:ILE:O	1:F:182:ILE:HD13	2.18	0.43
1:F:391:ILE:O	1:F:392:THR:C	2.61	0.43
1:F:395:GLU:OE1	1:F:395:GLU:O	2.36	0.43
2:O:75:LYS:O	2:O:79:THR:HG22	2.19	0.43
2:P:75:LYS:O	2:P:79:THR:HG22	2.19	0.43
2:P:141:PHE:CZ	2:P:145:MSE:HE3	2.53	0.43
2:T:76:MSE:HA	2:T:79:THR:HG22	2.01	0.43
1:A:199:LEU:O	1:A:201:ASP:N	2.52	0.43
1:B:285:LYS:C	1:B:287:GLY:N	2.75	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:403:LEU:CG	1:B:405:LEU:CD1	2.96	0.43
1:B:521:ASN:HB3	1:B:524:GLU:HB3	2.01	0.43
1:B:598:PRO:HG3	1:B:624:TYR:OH	2.18	0.43
1:B:697:ILE:HG12	1:B:732:ILE:CD1	2.49	0.43
1:B:700:TYR:HD1	1:B:728:ALA:N	2.16	0.43
1:B:739:LYS:HG2	1:B:740:GLN:N	2.30	0.43
1:C:88:LYS:NZ	1:C:172:GLU:CD	2.76	0.43
1:C:182:ILE:O	1:C:182:ILE:HD13	2.18	0.43
1:C:186:LYS:O	1:C:186:LYS:HG2	2.18	0.43
1:C:443:GLU:O	1:C:455:TYR:HA	2.19	0.43
1:C:598:PRO:HG3	1:C:624:TYR:OH	2.18	0.43
1:C:700:TYR:HD1	1:C:728:ALA:N	2.15	0.43
1:C:748:TYR:O	1:C:749:PHE:C	2.61	0.43
1:D:71:PHE:CD2	1:D:73:ASN:HB2	2.53	0.43
1:D:128:MET:HE3	1:D:239:HIS:NE2	2.34	0.43
1:D:323:ASN:C	1:D:323:ASN:ND2	2.77	0.43
1:D:457:THR:HG21	1:D:468:LYS:HA	2.01	0.43
1:E:74:GLU:C	1:E:75:THR:O	2.57	0.43
1:E:120:LEU:C	1:E:120:LEU:HD13	2.43	0.43
1:E:133:GLU:OE1	1:E:134:LYS:N	2.52	0.43
1:E:136:PRO:HG2	1:E:139:SER:OG	2.18	0.43
1:E:186:LYS:O	1:E:186:LYS:HG2	2.18	0.43
1:E:323:ASN:C	1:E:323:ASN:HD22	2.26	0.43
1:F:104:ILE:HG23	1:F:152:LEU:CD2	2.49	0.43
1:F:671:ARG:NH1	1:F:671:ARG:HG3	2.34	0.43
2:Q:76:MSE:HA	2:Q:79:THR:HG22	2.01	0.43
2:S:46:ALA:HA	2:S:49:GLN:NE2	2.33	0.43
2:S:55:VAL:CB	2:S:67:GLU:OE2	2.59	0.43
2:S:65:PHE:O	2:S:68:PHE:HB3	2.19	0.43
2:S:76:MSE:HE3	2:S:76:MSE:HB2	1.65	0.43
2:S:76:MSE:HA	2:S:79:THR:HG22	2.00	0.43
2:T:77:LYS:HG3	2:T:77:LYS:O	2.19	0.43
1:A:71:PHE:CD2	1:A:73:ASN:HB2	2.54	0.43
1:A:99:GLU:C	1:A:101:GLY:N	2.76	0.43
1:A:216:GLU:HA	1:A:219:GLU:OE2	2.18	0.43
1:A:240:ALA:O	1:A:241:PHE:C	2.62	0.43
1:A:279:ILE:HG22	1:A:283:LEU:HD13	1.99	0.43
1:A:286:GLU:O	1:A:286:GLU:HG2	2.18	0.43
1:A:794:GLN:O	1:A:797:ILE:HG12	2.18	0.43
1:B:323:ASN:C	1:B:323:ASN:HD22	2.25	0.43
1:B:709:ASN:O	1:B:717:LYS:HE3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:710:HIS:C	1:B:712:PHE:N	2.77	0.43
1:B:748:TYR:O	1:B:749:PHE:C	2.61	0.43
1:C:183:SER:HB3	1:C:184:LYS:H	1.51	0.43
1:C:376:GLN:C	1:C:378:LEU:N	2.76	0.43
1:D:133:GLU:OE1	1:D:134:LYS:N	2.52	0.43
1:D:137:PHE:C	1:D:139:SER:N	2.76	0.43
1:D:137:PHE:O	1:D:140:ARG:N	2.52	0.43
1:D:173:ILE:HD12	1:D:243:LEU:HD21	2.00	0.43
1:D:181:ILE:HD12	1:D:238:GLN:OE1	2.19	0.43
1:D:311:HIS:O	1:D:314:ALA:N	2.52	0.43
1:D:333:LYS:HA	1:D:336:THR:OG1	2.18	0.43
1:D:395:GLU:OE1	1:D:395:GLU:O	2.36	0.43
1:D:408:LEU:HD12	1:D:408:LEU:N	2.05	0.43
1:D:778:LYS:HE3	1:D:778:LYS:HB3	1.74	0.43
1:E:671:ARG:NH1	1:E:671:ARG:HG3	2.34	0.43
1:E:759:GLN:NE2	1:E:762:LEU:HD23	2.34	0.43
1:F:199:LEU:O	1:F:201:ASP:N	2.51	0.43
1:F:207:ASP:C	1:F:209:LEU:H	2.27	0.43
1:F:252:ASP:CG	1:F:253:HIS:N	2.77	0.43
1:F:322:LEU:HD13	1:F:556:MET:HE1	2.01	0.43
1:F:582:ASP:C	1:F:584:GLU:H	2.27	0.43
2:O:3:GLN:N	2:O:77:LYS:HD3	2.33	0.43
2:O:137:ASN:O	2:O:138:TYR:C	2.62	0.43
2:S:133:ASP:OD2	2:S:135:GLN:HG3	2.19	0.43
2:T:32:LEU:O	2:T:33:GLY:C	2.61	0.43
1:A:108:ASP:CG	1:A:109:ILE:H	2.26	0.43
1:A:128:MET:HE3	1:A:239:HIS:NE2	2.34	0.43
1:A:398:ILE:HD13	1:A:479:LYS:HA	2.00	0.43
1:A:794:GLN:HE22	1:A:795:LYS:CG	2.31	0.43
1:B:231:LYS:O	1:B:232:GLU:C	2.62	0.43
1:B:286:GLU:O	1:B:286:GLU:HG2	2.19	0.43
1:B:292:ARG:NE	1:B:617:LYS:HE3	2.34	0.43
1:B:398:ILE:HD13	1:B:479:LYS:HA	2.00	0.43
1:C:133:GLU:OE1	1:C:134:LYS:N	2.52	0.43
1:C:397:GLU:O	1:C:480:ASN:N	2.50	0.43
1:C:512:GLU:O	1:C:516:VAL:HG23	2.18	0.43
1:D:240:ALA:O	1:D:241:PHE:C	2.62	0.43
1:D:278:LYS:HB2	1:D:279:ILE:CD1	2.49	0.43
1:D:338:LEU:O	1:D:343:VAL:CG2	2.66	0.43
1:D:373:LYS:O	1:D:380:VAL:CG2	2.67	0.43
1:E:81:GLN:OE1	1:E:156:ILE:HG21	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:278:LYS:CB	1:E:279:ILE:HD13	2.49	0.43
1:E:305:SER:O	1:E:331:VAL:HG23	2.19	0.43
1:E:514:ASP:C	1:E:516:VAL:N	2.76	0.43
1:F:133:GLU:OE1	1:F:134:LYS:N	2.52	0.43
1:F:137:PHE:C	1:F:139:SER:N	2.77	0.43
1:F:271:LEU:HA	1:F:271:LEU:HD23	1.86	0.43
1:F:670:ILE:O	1:F:671:ARG:C	2.60	0.43
2:R:42:ASN:HA	2:R:43:PRO:HD2	1.88	0.43
2:T:76:MSE:HE3	2:T:76:MSE:HB2	1.64	0.43
1:A:376:GLN:CB	1:A:379:ALA:HB3	2.49	0.43
1:B:208:LEU:HD12	1:B:208:LEU:N	2.34	0.43
1:B:318:ILE:H	1:B:318:ILE:CD1	2.26	0.43
1:B:597:ASN:HD21	1:B:601:GLU:CB	2.10	0.43
1:C:71:PHE:CD2	1:C:73:ASN:HB2	2.53	0.43
1:C:334:LEU:HD23	1:C:356:ASP:HA	2.01	0.43
1:C:391:ILE:O	1:C:392:THR:C	2.61	0.43
1:D:305:SER:O	1:D:331:VAL:HG23	2.19	0.43
1:D:345:THR:OG1	1:D:573:ASP:O	2.37	0.43
1:D:376:GLN:C	1:D:378:LEU:N	2.76	0.43
1:D:581:GLN:O	1:D:629:ASN:HA	2.19	0.43
1:D:582:ASP:C	1:D:584:GLU:H	2.27	0.43
1:D:748:TYR:O	1:D:749:PHE:C	2.60	0.43
1:E:181:ILE:HD12	1:E:238:GLN:OE1	2.19	0.43
1:E:373:LYS:O	1:E:380:VAL:CG2	2.67	0.43
1:E:752:LEU:O	1:E:753:LYS:C	2.61	0.43
1:E:794:GLN:HE22	1:E:795:LYS:CG	2.31	0.43
1:F:99:GLU:C	1:F:101:GLY:N	2.77	0.43
1:F:170:TYR:HA	1:F:173:ILE:CG2	2.49	0.43
1:F:373:LYS:O	1:F:380:VAL:CG2	2.67	0.43
1:F:391:ILE:CG1	1:F:399:GLY:HA2	2.41	0.43
2:O:138:TYR:O	2:O:141:PHE:HB3	2.19	0.43
2:R:54:GLU:O	2:R:55:VAL:HG22	2.19	0.43
2:R:77:LYS:HG3	2:R:77:LYS:O	2.19	0.43
2:T:65:PHE:O	2:T:68:PHE:HB3	2.19	0.43
1:A:307:LEU:HD12	1:A:307:LEU:N	2.34	0.42
1:A:395:GLU:O	1:A:395:GLU:CD	2.62	0.42
1:A:671:ARG:NH1	1:A:671:ARG:HG3	2.34	0.42
1:A:671:ARG:O	1:A:675:ASN:HA	2.19	0.42
1:B:170:TYR:HA	1:B:173:ILE:CG2	2.49	0.42
1:B:240:ALA:O	1:B:241:PHE:C	2.62	0.42
1:B:443:GLU:O	1:B:455:TYR:HA	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:688:PHE:O	1:B:689:ALA:C	2.62	0.42
1:C:100:LEU:HD13	1:C:182:ILE:HG21	2.01	0.42
1:C:286:GLU:HG2	1:C:286:GLU:O	2.19	0.42
1:C:373:LYS:O	1:C:380:VAL:CG2	2.67	0.42
1:C:671:ARG:NH1	1:C:671:ARG:HG3	2.34	0.42
1:C:671:ARG:O	1:C:675:ASN:HA	2.19	0.42
1:C:716:LYS:O	1:C:717:LYS:C	2.61	0.42
1:E:71:PHE:CD2	1:E:73:ASN:HB2	2.53	0.42
1:E:208:LEU:HD12	1:E:208:LEU:N	2.33	0.42
1:E:443:GLU:O	1:E:455:TYR:HA	2.19	0.42
1:E:582:ASP:C	1:E:584:GLU:H	2.27	0.42
1:F:677:GLY:HA2	1:F:745:TYR:OH	2.19	0.42
1:F:759:GLN:NE2	1:F:762:LEU:HD23	2.33	0.42
1:F:764:LEU:HD23	1:F:764:LEU:HA	1.85	0.42
2:O:13:LYS:NZ	2:O:65:PHE:CB	2.62	0.42
2:P:42:ASN:HA	2:P:43:PRO:HD2	1.88	0.42
2:P:44:THR:H	2:P:47:GLU:HB3	1.84	0.42
1:A:173:ILE:HD12	1:A:243:LEU:HD21	2.00	0.42
1:A:532:LEU:HD23	1:A:532:LEU:HA	1.78	0.42
1:B:184:LYS:CE	1:B:191:GLU:HB2	2.49	0.42
1:B:275:GLY:O	1:B:278:LYS:HB2	2.19	0.42
1:B:376:GLN:O	1:B:380:VAL:HG23	2.19	0.42
1:B:579:THR:O	1:B:581:GLN:N	2.52	0.42
1:B:785:ASN:O	1:B:785:ASN:OD1	2.36	0.42
1:C:318:ILE:H	1:C:318:ILE:CD1	2.28	0.42
1:D:186:LYS:CE	1:D:234:LEU:HB2	2.49	0.42
1:D:275:GLY:CA	1:D:278:LYS:HE3	2.36	0.42
1:D:463:THR:HG22	1:D:465:LEU:H	1.84	0.42
1:D:478:ALA:HB1	1:D:486:LYS:C	2.44	0.42
1:D:580:GLU:O	1:D:583:ASN:HB2	2.19	0.42
1:E:85:LEU:HD12	1:E:168:GLU:OE1	2.19	0.42
1:E:275:GLY:O	1:E:278:LYS:HB2	2.18	0.42
1:E:391:ILE:O	1:E:392:THR:C	2.61	0.42
1:E:716:LYS:O	1:E:717:LYS:C	2.61	0.42
1:F:443:GLU:C	1:F:444:PHE:CD1	2.97	0.42
2:O:42:ASN:HA	2:O:43:PRO:HD2	1.88	0.42
2:P:106:ARG:NH2	2:P:118:ASP:OD2	2.52	0.42
2:S:44:THR:H	2:S:47:GLU:HB3	1.84	0.42
2:S:49:GLN:O	2:S:53:ASN:N	2.44	0.42
1:A:85:LEU:HD12	1:A:168:GLU:OE1	2.19	0.42
1:A:794:GLN:HE21	1:A:794:GLN:HB3	1.66	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:90:PRO:O	1:B:93:VAL:N	2.51	0.42
1:B:540:ARG:NH1	1:B:627:TYR:CE1	2.87	0.42
1:B:792:VAL:O	1:B:795:LYS:HB2	2.18	0.42
1:B:794:GLN:HE22	1:B:795:LYS:CG	2.31	0.42
1:B:794:GLN:HE21	1:B:794:GLN:HB3	1.66	0.42
1:C:79:ILE:C	1:C:81:GLN:N	2.57	0.42
1:C:137:PHE:O	1:C:140:ARG:N	2.53	0.42
1:C:208:LEU:N	1:C:208:LEU:HD12	2.34	0.42
1:C:216:GLU:HA	1:C:219:GLU:OE2	2.19	0.42
1:C:532:LEU:HD23	1:C:532:LEU:HA	1.78	0.42
1:C:581:GLN:O	1:C:629:ASN:HA	2.19	0.42
1:D:97:TYR:OH	1:D:150:PRO:HB2	2.19	0.42
1:D:112:VAL:C	1:D:114:HIS:N	2.78	0.42
1:D:123:GLU:CG	1:D:124:GLU:N	2.79	0.42
1:D:334:LEU:HD23	1:D:356:ASP:HA	2.02	0.42
1:D:694:VAL:C	1:D:696:LYS:N	2.75	0.42
1:E:710:HIS:C	1:E:712:PHE:N	2.78	0.42
1:F:85:LEU:O	1:F:88:LYS:HE3	2.20	0.42
1:F:231:LYS:O	1:F:232:GLU:C	2.62	0.42
1:F:286:GLU:HG2	1:F:286:GLU:O	2.19	0.42
1:F:323:ASN:C	1:F:323:ASN:ND2	2.76	0.42
1:F:450:ASN:ND2	1:F:452:GLU:CD	2.78	0.42
1:F:457:THR:HG21	1:F:468:LYS:HA	2.02	0.42
1:F:736:LEU:HD11	1:F:750:GLN:HE21	1.81	0.42
2:O:77:LYS:HG3	2:O:77:LYS:O	2.19	0.42
2:P:77:LYS:HG3	2:P:77:LYS:O	2.19	0.42
2:R:106:ARG:NH2	2:R:118:ASP:OD2	2.53	0.42
2:R:133:ASP:OD2	2:R:135:GLN:HG3	2.18	0.42
2:T:54:GLU:O	2:T:55:VAL:HG22	2.19	0.42
1:A:100:LEU:CD1	1:A:182:ILE:HG21	2.49	0.42
1:A:137:PHE:O	1:A:140:ARG:N	2.52	0.42
1:A:285:LYS:C	1:A:287:GLY:N	2.75	0.42
1:A:305:SER:O	1:A:331:VAL:HG23	2.19	0.42
1:A:403:LEU:CG	1:A:405:LEU:CD1	2.96	0.42
1:A:792:VAL:O	1:A:795:LYS:HB2	2.19	0.42
1:B:186:LYS:HE3	1:B:234:LEU:HB2	2.02	0.42
1:B:278:LYS:HB2	1:B:279:ILE:CD1	2.48	0.42
1:B:671:ARG:NH1	1:B:671:ARG:HG3	2.34	0.42
1:C:85:LEU:O	1:C:88:LYS:HE3	2.20	0.42
1:C:108:ASP:CG	1:C:109:ILE:H	2.27	0.42
1:D:450:ASN:ND2	1:D:452:GLU:CD	2.77	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:527:LYS:HE2	1:D:527:LYS:HB3	1.86	0.42
1:D:677:GLY:HA2	1:D:745:TYR:OH	2.19	0.42
1:D:697:ILE:HG12	1:D:732:ILE:CD1	2.49	0.42
1:E:376:GLN:CB	1:E:379:ALA:HB3	2.49	0.42
1:E:598:PRO:HG3	1:E:624:TYR:OH	2.20	0.42
1:E:748:TYR:O	1:E:749:PHE:C	2.62	0.42
1:F:97:TYR:OH	1:F:150:PRO:HB2	2.19	0.42
1:F:512:GLU:O	1:F:516:VAL:HG23	2.19	0.42
1:F:694:VAL:CG2	2:T:18:LEU:HD21	2.50	0.42
2:O:106:ARG:NH2	2:O:118:ASP:OD2	2.52	0.42
2:P:5:THR:O	2:P:8:GLN:HB3	2.20	0.42
2:P:138:TYR:O	2:P:141:PHE:HB3	2.19	0.42
2:Q:18:LEU:HB3	2:Q:19:PHE:CE1	2.54	0.42
2:R:18:LEU:HB3	2:R:19:PHE:CE1	2.54	0.42
2:S:42:ASN:HA	2:S:43:PRO:HD2	1.88	0.42
1:A:85:LEU:O	1:A:88:LYS:HE3	2.19	0.42
1:A:90:PRO:O	1:A:92:ASP:N	2.52	0.42
1:A:170:TYR:HA	1:A:173:ILE:CG2	2.49	0.42
1:A:333:LYS:H	1:A:333:LYS:HD2	1.85	0.42
1:A:424:LYS:HB3	1:A:424:LYS:NZ	2.32	0.42
1:A:450:ASN:ND2	1:A:452:GLU:CD	2.77	0.42
1:A:683:GLY:O	1:A:684:ASP:C	2.62	0.42
1:A:785:ASN:OD1	1:A:785:ASN:O	2.36	0.42
1:B:543:ASP:OD1	1:B:544:SER:N	2.53	0.42
1:B:708:ALA:C	1:B:710:HIS:H	2.27	0.42
1:C:181:ILE:HD12	1:C:238:GLN:OE1	2.20	0.42
1:C:391:ILE:CG1	1:C:399:GLY:HA2	2.40	0.42
1:C:443:GLU:C	1:C:444:PHE:CD1	2.98	0.42
1:C:478:ALA:HB1	1:C:486:LYS:C	2.43	0.42
1:D:81:GLN:OE1	1:D:156:ILE:HG21	2.19	0.42
1:D:90:PRO:O	1:D:93:VAL:N	2.52	0.42
1:D:254:ARG:HD2	1:D:254:ARG:N	2.35	0.42
1:D:671:ARG:O	1:D:675:ASN:HA	2.20	0.42
1:E:88:LYS:HZ3	1:E:172:GLU:CD	2.26	0.42
1:E:112:VAL:C	1:E:114:HIS:N	2.77	0.42
1:E:137:PHE:C	1:E:139:SER:N	2.76	0.42
1:E:286:GLU:O	1:E:286:GLU:HG2	2.19	0.42
1:E:521:ASN:HB3	1:E:524:GLU:HB3	2.02	0.42
1:F:208:LEU:N	1:F:208:LEU:HD12	2.33	0.42
1:F:216:GLU:HA	1:F:219:GLU:OE2	2.19	0.42
1:F:345:THR:OG1	1:F:573:ASP:O	2.36	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:446:ILE:HD11	1:F:451:ASN:CB	2.41	0.42
1:F:477:MET:HA	1:F:477:MET:HE3	1.99	0.42
1:F:521:ASN:HB3	1:F:524:GLU:HB3	2.01	0.42
2:Q:44:THR:H	2:Q:47:GLU:HB3	1.84	0.42
1:A:81:GLN:OE1	1:A:156:ILE:HG21	2.19	0.42
1:A:334:LEU:HD23	1:A:356:ASP:HA	2.01	0.42
1:A:688:PHE:O	1:A:689:ALA:C	2.61	0.42
1:A:708:ALA:C	1:A:710:HIS:H	2.26	0.42
1:B:112:VAL:C	1:B:114:HIS:N	2.77	0.42
1:B:376:GLN:CB	1:B:379:ALA:HB3	2.49	0.42
1:B:585:GLU:OE1	1:B:585:GLU:HA	2.18	0.42
1:C:170:TYR:HA	1:C:173:ILE:CG2	2.50	0.42
1:C:184:LYS:O	1:C:185:ASP:C	2.61	0.42
1:C:462:ILE:CG1	1:C:463:THR:N	2.80	0.42
1:C:521:ASN:HB3	1:C:524:GLU:HB3	2.01	0.42
1:C:680:LYS:O	1:C:687:GLU:HG2	2.19	0.42
1:D:186:LYS:HE3	1:D:234:LEU:HB2	2.01	0.42
1:D:197:LYS:HZ3	1:D:197:LYS:C	2.26	0.42
1:D:278:LYS:CB	1:D:279:ILE:HD13	2.49	0.42
1:D:286:GLU:O	1:D:286:GLU:HG2	2.19	0.42
1:D:323:ASN:C	1:D:323:ASN:HD22	2.26	0.42
1:D:412:GLU:O	1:D:416:ASN:HB2	2.20	0.42
1:E:115:LYS:C	1:E:117:LEU:H	2.28	0.42
1:E:184:LYS:CE	1:E:191:GLU:HB2	2.48	0.42
1:E:462:ILE:CG1	1:E:463:THR:N	2.80	0.42
1:F:292:ARG:NE	1:F:617:LYS:HE3	2.35	0.42
1:F:443:GLU:O	1:F:455:TYR:HA	2.19	0.42
2:O:81:SER:O	2:O:82:GLU:C	2.62	0.42
2:P:18:LEU:HA	2:P:18:LEU:HD23	1.83	0.42
2:P:38:SER:C	2:P:40:GLY:H	2.28	0.42
2:Q:77:LYS:O	2:Q:77:LYS:HG3	2.19	0.42
2:Q:106:ARG:NH2	2:Q:118:ASP:OD2	2.53	0.42
2:S:94:LYS:HB3	2:S:94:LYS:HZ2	1.84	0.42
2:T:38:SER:C	2:T:40:GLY:H	2.27	0.42
1:A:186:LYS:HE3	1:A:234:LEU:HB2	2.02	0.42
1:A:186:LYS:CE	1:A:234:LEU:HB2	2.50	0.42
1:A:457:THR:HG21	1:A:468:LYS:HA	2.01	0.42
1:A:598:PRO:HG3	1:A:624:TYR:OH	2.20	0.42
1:A:716:LYS:O	1:A:717:LYS:C	2.62	0.42
1:A:739:LYS:CG	1:A:740:GLN:H	2.26	0.42
1:B:81:GLN:OE1	1:B:156:ILE:HG21	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:172:GLU:O	1:B:175:LYS:HB3	2.20	0.42
1:B:627:TYR:C	1:B:627:TYR:CD1	2.97	0.42
1:C:254:ARG:HD2	1:C:254:ARG:N	2.34	0.42
1:C:514:ASP:C	1:C:516:VAL:N	2.76	0.42
1:C:550:SER:HB2	1:C:553:GLN:HG3	1.98	0.42
1:D:115:LYS:N	1:D:118:GLN:HB2	2.34	0.42
1:D:170:TYR:HA	1:D:173:ILE:CG2	2.49	0.42
1:D:521:ASN:HB3	1:D:524:GLU:HB3	2.02	0.42
1:D:636:ALA:O	1:D:640:LYS:CA	2.68	0.42
1:D:680:LYS:O	1:D:687:GLU:HG2	2.19	0.42
1:D:708:ALA:C	1:D:710:HIS:H	2.26	0.42
1:E:254:ARG:HD2	1:E:254:ARG:N	2.35	0.42
1:E:323:ASN:C	1:E:323:ASN:ND2	2.76	0.42
1:E:463:THR:HG22	1:E:465:LEU:H	1.85	0.42
1:E:543:ASP:OD1	1:E:544:SER:N	2.53	0.42
1:F:137:PHE:O	1:F:140:ARG:N	2.53	0.42
1:F:718:ARG:O	1:F:722:ILE:HG13	2.19	0.42
2:Q:81:SER:O	2:Q:82:GLU:C	2.61	0.42
2:S:54:GLU:O	2:S:55:VAL:HG13	2.20	0.42
2:S:75:LYS:O	2:S:79:THR:HG22	2.20	0.42
2:T:16:PHE:CE1	2:T:27:ILE:HG12	2.55	0.42
2:T:76:MSE:C	2:T:78:ASP:N	2.78	0.42
2:T:133:ASP:OD2	2:T:135:GLN:HG3	2.19	0.42
2:T:138:TYR:O	2:T:141:PHE:HB3	2.19	0.42
1:A:152:LEU:HD21	1:A:154:ILE:HD11	2.01	0.42
1:A:443:GLU:C	1:A:444:PHE:CD1	2.98	0.42
1:B:106:PHE:CZ	1:B:171:TYR:OH	2.64	0.42
1:B:128:MET:HE3	1:B:239:HIS:NE2	2.34	0.42
1:B:450:ASN:ND2	1:B:452:GLU:CD	2.78	0.42
1:B:635:ILE:N	1:B:635:ILE:CD1	2.71	0.42
1:C:395:GLU:O	1:C:395:GLU:CD	2.63	0.42
1:C:463:THR:HG22	1:C:465:LEU:H	1.85	0.42
1:C:697:ILE:HG12	1:C:732:ILE:CD1	2.50	0.42
1:D:443:GLU:O	1:D:455:TYR:HA	2.19	0.42
1:D:557:LEU:HD11	1:D:575:VAL:CG1	2.50	0.42
1:E:180:ASP:C	1:E:182:ILE:N	2.75	0.42
1:E:186:LYS:CE	1:E:234:LEU:HB2	2.49	0.42
1:E:278:LYS:HB2	1:E:279:ILE:CD1	2.49	0.42
1:E:674:SER:O	1:E:675:ASN:C	2.63	0.42
1:F:462:ILE:CG1	1:F:463:THR:N	2.80	0.42
2:O:5:THR:O	2:O:8:GLN:HB3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:44:THR:O	2:O:45:GLU:C	2.63	0.42
2:P:65:PHE:O	2:P:68:PHE:HB3	2.20	0.42
2:Q:21:LYS:O	2:Q:23:GLY:N	2.49	0.42
2:R:5:THR:O	2:R:8:GLN:HB3	2.20	0.42
2:R:54:GLU:O	2:R:55:VAL:HG13	2.20	0.42
2:S:39:LEU:HD23	2:S:39:LEU:HA	1.74	0.42
1:A:73:ASN:HB3	1:A:74:GLU:OE2	2.20	0.42
1:A:181:ILE:HD12	1:A:238:GLN:OE1	2.20	0.42
1:A:318:ILE:H	1:A:318:ILE:CD1	2.26	0.42
1:A:338:LEU:HD21	1:A:409:ARG:HD3	2.02	0.42
1:B:462:ILE:CG1	1:B:463:THR:N	2.81	0.42
1:B:515:LYS:HZ1	1:B:516:VAL:CG2	2.31	0.42
1:B:565:LYS:C	1:B:567:THR:N	2.68	0.42
1:C:172:GLU:O	1:C:175:LYS:HB3	2.19	0.42
1:C:207:ASP:C	1:C:209:LEU:H	2.28	0.42
1:C:333:LYS:H	1:C:333:LYS:HD2	1.85	0.42
1:C:527:LYS:HB3	1:C:527:LYS:HE2	1.87	0.42
1:C:794:GLN:HE22	1:C:795:LYS:CG	2.31	0.42
1:D:73:ASN:HB3	1:D:74:GLU:OE2	2.20	0.42
1:D:231:LYS:O	1:D:232:GLU:C	2.62	0.42
1:D:279:ILE:HG22	1:D:283:LEU:CD1	2.50	0.42
1:D:292:ARG:NE	1:D:617:LYS:HE3	2.34	0.42
1:D:764:LEU:C	1:D:766:HIS:N	2.76	0.42
1:E:90:PRO:O	1:E:92:ASP:N	2.53	0.42
1:E:99:GLU:C	1:E:101:GLY:N	2.78	0.42
1:E:100:LEU:HD13	1:E:182:ILE:HG21	2.02	0.42
1:F:115:LYS:C	1:F:117:LEU:H	2.28	0.42
1:F:115:LYS:HZ1	1:F:117:LEU:HB2	1.85	0.42
1:F:333:LYS:H	1:F:333:LYS:HD2	1.85	0.42
1:F:376:GLN:CB	1:F:379:ALA:HB3	2.49	0.42
1:F:543:ASP:OD1	1:F:544:SER:N	2.52	0.42
1:F:558:ASP:C	1:F:560:LEU:N	2.78	0.42
1:F:671:ARG:O	1:F:675:ASN:HA	2.19	0.42
1:F:674:SER:O	1:F:675:ASN:C	2.63	0.42
1:F:693:SER:OG	1:F:731:GLU:OE1	2.38	0.42
1:F:694:VAL:C	1:F:696:LYS:N	2.75	0.42
1:F:697:ILE:HD13	1:F:732:ILE:HD13	2.02	0.42
2:Q:6:GLU:O	2:Q:9:ILE:HB	2.20	0.42
2:Q:44:THR:OG1	2:Q:47:GLU:CB	2.68	0.42
2:R:27:ILE:HA	2:R:31:GLU:OE2	2.20	0.42
2:R:44:THR:H	2:R:47:GLU:HB3	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:5:THR:O	2:S:8:GLN:HB3	2.20	0.42
2:T:44:THR:OG1	2:T:47:GLU:CB	2.68	0.42
1:A:88:LYS:HZ3	1:A:172:GLU:CD	2.27	0.42
1:A:207:ASP:C	1:A:209:LEU:H	2.27	0.42
1:A:240:ALA:C	1:A:242:SER:N	2.75	0.42
1:A:503:GLU:HA	1:A:503:GLU:OE1	2.20	0.42
1:A:710:HIS:C	1:A:712:PHE:N	2.76	0.42
1:A:739:LYS:HG2	1:A:740:GLN:N	2.30	0.42
1:B:115:LYS:N	1:B:118:GLN:HB2	2.35	0.42
1:B:197:LYS:HD3	1:B:263:ASP:CG	2.45	0.42
1:B:338:LEU:O	1:B:343:VAL:CG2	2.68	0.42
1:B:522:SER:O	2:P:124:MSE:HE2	2.20	0.42
1:C:161:ILE:CG2	1:C:161:ILE:O	2.68	0.42
1:C:173:ILE:HD12	1:C:243:LEU:HD21	2.01	0.42
1:C:292:ARG:NE	1:C:617:LYS:HE3	2.35	0.42
1:C:558:ASP:C	1:C:560:LEU:N	2.78	0.42
1:C:579:THR:O	1:C:581:GLN:N	2.53	0.42
1:C:636:ALA:O	1:C:640:LYS:CA	2.68	0.42
1:D:184:LYS:O	1:D:185:ASP:C	2.61	0.42
1:D:503:GLU:OE1	1:D:503:GLU:HA	2.20	0.42
1:D:794:GLN:HE21	1:D:794:GLN:HB3	1.66	0.42
1:E:240:ALA:O	1:E:241:PHE:C	2.62	0.42
1:E:680:LYS:O	1:E:687:GLU:HG2	2.19	0.42
1:F:90:PRO:O	1:F:91:LYS:C	2.63	0.42
1:F:311:HIS:O	1:F:314:ALA:N	2.53	0.42
1:F:334:LEU:HD23	1:F:356:ASP:HA	2.01	0.42
2:O:64:ASP:CG	2:O:67:GLU:HB2	2.45	0.42
2:P:18:LEU:HB3	2:P:19:PHE:CE1	2.55	0.42
2:P:133:ASP:OD2	2:P:135:GLN:HG3	2.20	0.42
2:Q:65:PHE:CB	2:Q:66:PRO:HD3	2.38	0.42
2:S:18:LEU:HB3	2:S:19:PHE:CE1	2.55	0.42
2:S:44:THR:O	2:S:45:GLU:C	2.63	0.42
2:T:106:ARG:NH2	2:T:118:ASP:OD2	2.53	0.42
1:A:414:LYS:C	1:A:416:ASN:N	2.78	0.41
1:A:512:GLU:O	1:A:516:VAL:HG23	2.20	0.41
1:A:550:SER:HB3	1:A:553:GLN:CG	2.39	0.41
1:A:582:ASP:C	1:A:584:GLU:H	2.29	0.41
1:A:585:GLU:OE1	1:A:585:GLU:HA	2.20	0.41
1:B:97:TYR:OH	1:B:150:PRO:HB2	2.19	0.41
1:B:278:LYS:CB	1:B:279:ILE:HD13	2.49	0.41
1:B:525:LYS:O	1:B:526:GLN:C	2.62	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:736:LEU:HD11	1:B:750:GLN:HE21	1.80	0.41
1:C:90:PRO:O	1:C:91:LYS:C	2.64	0.41
1:C:112:VAL:C	1:C:114:HIS:N	2.78	0.41
1:C:557:LEU:HD11	1:C:575:VAL:CG1	2.50	0.41
1:C:582:ASP:C	1:C:584:GLU:H	2.28	0.41
1:C:656:THR:HG22	1:C:657:ILE:O	2.20	0.41
1:C:659:THR:O	1:C:660:SER:C	2.63	0.41
1:C:694:VAL:CG2	2:Q:18:LEU:HD21	2.50	0.41
1:D:395:GLU:O	1:D:395:GLU:CD	2.63	0.41
1:D:414:LYS:C	1:D:416:ASN:N	2.78	0.41
1:D:558:ASP:C	1:D:560:LEU:N	2.78	0.41
1:D:739:LYS:HG2	1:D:740:GLN:N	2.30	0.41
1:E:128:MET:HE3	1:E:239:HIS:NE2	2.35	0.41
1:E:186:LYS:HE3	1:E:234:LEU:HB2	2.02	0.41
1:E:457:THR:HG21	1:E:468:LYS:HA	2.01	0.41
1:E:462:ILE:HD11	1:E:466:GLY:CA	2.49	0.41
1:E:671:ARG:O	1:E:675:ASN:HA	2.19	0.41
1:F:81:GLN:OE1	1:F:156:ILE:HG21	2.20	0.41
1:F:338:LEU:O	1:F:343:VAL:CG2	2.67	0.41
2:O:18:LEU:HB3	2:O:19:PHE:CE1	2.54	0.41
2:O:38:SER:C	2:O:40:GLY:H	2.28	0.41
2:O:44:THR:H	2:O:47:GLU:HB3	1.85	0.41
2:P:44:THR:OG1	2:P:47:GLU:CB	2.68	0.41
2:S:21:LYS:O	2:S:23:GLY:N	2.49	0.41
2:T:44:THR:H	2:T:47:GLU:HB3	1.85	0.41
1:A:543:ASP:OD1	1:A:544:SER:N	2.53	0.41
1:A:581:GLN:O	1:A:629:ASN:HA	2.20	0.41
1:A:748:TYR:O	1:A:749:PHE:C	2.61	0.41
1:B:207:ASP:C	1:B:209:LEU:H	2.28	0.41
1:B:395:GLU:O	1:B:395:GLU:CD	2.63	0.41
1:B:423:LYS:HE2	1:B:425:GLU:OE1	2.20	0.41
1:B:671:ARG:O	1:B:675:ASN:HA	2.20	0.41
1:B:694:VAL:O	1:B:695:LYS:C	2.62	0.41
1:C:318:ILE:CG2	1:C:322:LEU:HD12	2.50	0.41
1:C:345:THR:OG1	1:C:573:ASP:O	2.37	0.41
1:C:521:ASN:O	1:C:522:SER:C	2.63	0.41
1:D:66:LEU:HD11	1:D:97:TYR:HD2	1.85	0.41
1:D:100:LEU:HD13	1:D:182:ILE:HG21	2.01	0.41
1:D:307:LEU:HD12	1:D:307:LEU:N	2.34	0.41
1:D:515:LYS:HG2	1:D:515:LYS:O	2.20	0.41
1:D:629:ASN:HB3	1:D:632:TYR:CZ	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:660:SER:O	1:D:663:PHE:HB3	2.20	0.41
1:E:240:ALA:C	1:E:242:SER:N	2.76	0.41
1:E:333:LYS:H	1:E:333:LYS:HD2	1.85	0.41
1:E:450:ASN:ND2	1:E:452:GLU:CD	2.78	0.41
1:E:525:LYS:O	1:E:526:GLN:C	2.63	0.41
1:E:581:GLN:O	1:E:629:ASN:HA	2.19	0.41
1:E:683:GLY:O	1:E:684:ASP:C	2.63	0.41
1:E:688:PHE:O	1:E:689:ALA:C	2.63	0.41
1:E:736:LEU:HD11	1:E:750:GLN:HE21	1.80	0.41
1:F:128:MET:HE3	1:F:239:HIS:NE2	2.36	0.41
1:F:184:LYS:O	1:F:185:ASP:C	2.62	0.41
1:F:627:TYR:CD1	1:F:627:TYR:C	2.98	0.41
2:P:76:MSE:HA	2:P:79:THR:HG22	2.02	0.41
2:Q:16:PHE:CE1	2:Q:27:ILE:HG12	2.55	0.41
2:Q:54:GLU:O	2:Q:55:VAL:HG22	2.20	0.41
2:R:6:GLU:O	2:R:9:ILE:HB	2.21	0.41
2:R:65:PHE:O	2:R:68:PHE:HB3	2.20	0.41
2:S:138:TYR:O	2:S:141:PHE:HB3	2.19	0.41
2:T:27:ILE:HA	2:T:31:GLU:OE2	2.20	0.41
1:A:137:PHE:C	1:A:139:SER:N	2.76	0.41
1:A:257:LEU:O	1:A:261:ALA:O	2.38	0.41
1:A:371:SER:O	1:A:372:LYS:C	2.63	0.41
1:A:522:SER:O	2:O:124:MSE:HE2	2.20	0.41
1:B:90:PRO:O	1:B:92:ASP:N	2.53	0.41
1:B:102:GLY:C	1:B:103:GLU:HG3	2.45	0.41
1:B:231:LYS:HB2	1:B:231:LYS:HE3	1.85	0.41
1:B:333:LYS:H	1:B:333:LYS:HD2	1.85	0.41
1:B:457:THR:HG21	1:B:468:LYS:HA	2.02	0.41
1:B:521:ASN:O	1:B:522:SER:C	2.63	0.41
1:B:582:ASP:C	1:B:584:GLU:H	2.29	0.41
1:C:70:GLU:CB	1:C:107:THR:HG22	2.44	0.41
1:C:106:PHE:CZ	1:C:171:TYR:OH	2.65	0.41
1:C:115:LYS:N	1:C:118:GLN:HB2	2.34	0.41
1:C:186:LYS:CE	1:C:234:LEU:HB2	2.49	0.41
1:C:217:LYS:HB2	1:C:236:GLU:CG	2.50	0.41
1:C:275:GLY:O	1:C:278:LYS:HD2	2.20	0.41
1:C:278:LYS:CB	1:C:279:ILE:HD13	2.50	0.41
1:C:688:PHE:O	1:C:689:ALA:C	2.61	0.41
1:C:764:LEU:HD23	1:C:764:LEU:HA	1.84	0.41
1:D:93:VAL:HG23	1:D:179:LEU:CD1	2.41	0.41
1:D:318:ILE:H	1:D:318:ILE:CD1	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:423:LYS:HE2	1:D:425:GLU:OE1	2.21	0.41
1:E:70:GLU:HB3	1:E:71:PHE:H	1.75	0.41
1:E:217:LYS:HB2	1:E:236:GLU:CG	2.51	0.41
1:E:395:GLU:O	1:E:395:GLU:CD	2.63	0.41
1:E:521:ASN:O	1:E:522:SER:C	2.63	0.41
1:E:579:THR:O	1:E:581:GLN:N	2.53	0.41
1:E:693:SER:OG	1:E:731:GLU:OE1	2.38	0.41
1:F:181:ILE:HD12	1:F:238:GLN:OE1	2.20	0.41
1:F:184:LYS:CE	1:F:191:GLU:HB2	2.49	0.41
1:F:338:LEU:HD21	1:F:409:ARG:HD3	2.01	0.41
1:F:412:GLU:O	1:F:416:ASN:HB2	2.20	0.41
1:F:579:THR:O	1:F:581:GLN:N	2.53	0.41
2:O:133:ASP:OD2	2:O:135:GLN:HG3	2.20	0.41
2:P:4:LEU:CB	2:P:8:GLN:HE21	2.33	0.41
2:R:6:GLU:O	2:R:9:ILE:N	2.48	0.41
2:R:44:THR:O	2:R:45:GLU:C	2.63	0.41
1:A:90:PRO:O	1:A:91:LYS:C	2.63	0.41
1:A:137:PHE:O	1:A:138:ALA:C	2.64	0.41
1:A:323:ASN:C	1:A:323:ASN:HD22	2.27	0.41
1:A:338:LEU:O	1:A:343:VAL:CG2	2.68	0.41
1:A:407:HIS:ND1	1:A:407:HIS:N	2.69	0.41
1:A:462:ILE:CG1	1:A:463:THR:N	2.80	0.41
1:A:463:THR:HG22	1:A:465:LEU:H	1.85	0.41
1:A:514:ASP:C	1:A:516:VAL:N	2.76	0.41
1:B:73:ASN:HB3	1:B:74:GLU:OE2	2.20	0.41
1:B:186:LYS:CE	1:B:234:LEU:HB2	2.49	0.41
1:B:254:ARG:HG2	1:B:255:THR:N	2.35	0.41
1:B:443:GLU:C	1:B:444:PHE:CD1	2.98	0.41
1:C:349:ASN:HD22	1:C:350:VAL:HG23	1.86	0.41
1:C:424:LYS:HB3	1:C:424:LYS:NZ	2.31	0.41
1:C:522:SER:O	2:Q:124:MSE:HE2	2.20	0.41
1:C:543:ASP:OD1	1:C:544:SER:N	2.53	0.41
1:C:694:VAL:C	1:C:696:LYS:N	2.75	0.41
1:D:85:LEU:HD12	1:D:168:GLU:OE1	2.20	0.41
1:D:207:ASP:C	1:D:209:LEU:H	2.28	0.41
1:E:161:ILE:CG2	1:E:161:ILE:O	2.68	0.41
1:E:292:ARG:NE	1:E:617:LYS:HE3	2.35	0.41
1:E:324:THR:CG2	1:E:499:PRO:HA	2.51	0.41
1:E:443:GLU:C	1:E:444:PHE:CD1	2.98	0.41
1:E:697:ILE:HG12	1:E:732:ILE:CD1	2.50	0.41
1:F:85:LEU:HD12	1:F:168:GLU:OE1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:90:PRO:O	1:F:92:ASP:N	2.54	0.41
1:F:106:PHE:CZ	1:F:171:TYR:OH	2.65	0.41
1:F:172:GLU:O	1:F:176:GLY:N	2.35	0.41
1:F:794:GLN:HE22	1:F:795:LYS:CG	2.32	0.41
2:O:6:GLU:O	2:O:9:ILE:HB	2.20	0.41
2:P:124:MSE:O	2:P:125:ILE:C	2.63	0.41
2:T:6:GLU:O	2:T:9:ILE:HB	2.20	0.41
2:T:18:LEU:HB3	2:T:19:PHE:HD1	1.83	0.41
2:T:65:PHE:CB	2:T:66:PRO:HD3	2.38	0.41
2:T:81:SER:O	2:T:82:GLU:C	2.62	0.41
1:A:66:LEU:HD11	1:A:97:TYR:HD2	1.86	0.41
1:A:324:THR:CG2	1:A:499:PRO:HA	2.51	0.41
1:A:680:LYS:O	1:A:687:GLU:HG2	2.21	0.41
1:B:66:LEU:HD11	1:B:97:TYR:CD2	2.55	0.41
1:B:137:PHE:O	1:B:140:ARG:N	2.52	0.41
1:B:181:ILE:HD12	1:B:238:GLN:OE1	2.20	0.41
1:B:217:LYS:HB2	1:B:236:GLU:CG	2.50	0.41
1:B:371:SER:O	1:B:372:LYS:C	2.63	0.41
1:B:495:PHE:CD1	1:B:495:PHE:C	2.98	0.41
1:B:607:ASN:HB3	1:B:609:GLU:OE2	2.20	0.41
1:B:694:VAL:CG2	2:P:18:LEU:HD21	2.50	0.41
1:C:73:ASN:HB3	1:C:74:GLU:OE2	2.21	0.41
1:C:131:ARG:CB	1:C:170:TYR:OH	2.69	0.41
1:C:197:LYS:HD3	1:C:263:ASP:CG	2.46	0.41
1:C:199:LEU:O	1:C:201:ASP:N	2.52	0.41
1:C:412:GLU:O	1:C:416:ASN:HB2	2.21	0.41
1:D:217:LYS:HB2	1:D:236:GLU:CG	2.51	0.41
1:D:217:LYS:HG3	1:D:236:GLU:HG3	2.03	0.41
1:D:443:GLU:C	1:D:444:PHE:CD1	2.98	0.41
1:D:666:ASN:HB2	1:D:748:TYR:CZ	2.56	0.41
1:E:115:LYS:N	1:E:118:GLN:HB2	2.35	0.41
1:E:172:GLU:O	1:E:175:LYS:HB3	2.21	0.41
1:E:207:ASP:C	1:E:209:LEU:H	2.28	0.41
1:E:627:TYR:C	1:E:627:TYR:CD1	2.98	0.41
1:F:70:GLU:CB	1:F:107:THR:HG22	2.44	0.41
1:F:161:ILE:CG2	1:F:161:ILE:O	2.68	0.41
1:F:197:LYS:HD3	1:F:263:ASP:CG	2.45	0.41
1:F:395:GLU:O	1:F:395:GLU:CD	2.63	0.41
1:F:463:THR:HG22	1:F:465:LEU:H	1.85	0.41
1:F:667:LEU:HD13	1:F:678:VAL:HG21	2.01	0.41
1:F:716:LYS:O	1:F:717:LYS:C	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:764:LEU:C	1:F:766:HIS:N	2.78	0.41
2:P:54:GLU:O	2:P:55:VAL:HG22	2.21	0.41
2:P:117:THR:HG23	2:P:120:GLU:CG	2.50	0.41
2:Q:38:SER:C	2:Q:40:GLY:H	2.28	0.41
2:Q:138:TYR:O	2:Q:141:PHE:HB3	2.20	0.41
2:S:4:LEU:CB	2:S:8:GLN:HE21	2.34	0.41
2:S:44:THR:OG1	2:S:47:GLU:CB	2.68	0.41
1:A:184:LYS:O	1:A:185:ASP:C	2.63	0.41
1:A:231:LYS:O	1:A:232:GLU:C	2.63	0.41
1:A:557:LEU:HD11	1:A:575:VAL:CG1	2.51	0.41
1:B:90:PRO:O	1:B:91:LYS:C	2.62	0.41
1:B:108:ASP:CG	1:B:109:ILE:H	2.27	0.41
1:B:173:ILE:HD12	1:B:243:LEU:HD21	2.02	0.41
1:B:183:SER:HB3	1:B:184:LYS:H	1.50	0.41
1:B:463:THR:HG22	1:B:465:LEU:H	1.85	0.41
1:B:527:LYS:HB3	1:B:527:LYS:HE2	1.88	0.41
1:C:515:LYS:O	1:C:515:LYS:HG2	2.21	0.41
1:C:540:ARG:HD3	1:C:627:TYR:OH	2.20	0.41
1:C:627:TYR:CD1	1:C:627:TYR:C	2.98	0.41
1:C:683:GLY:O	1:C:684:ASP:C	2.63	0.41
1:C:710:HIS:C	1:C:712:PHE:N	2.79	0.41
1:D:74:GLU:O	1:D:75:THR:O	2.39	0.41
1:D:88:LYS:HZ3	1:D:172:GLU:CD	2.29	0.41
1:D:90:PRO:O	1:D:91:LYS:C	2.64	0.41
1:D:131:ARG:CB	1:D:170:TYR:OH	2.67	0.41
1:E:66:LEU:HD11	1:E:97:TYR:HD2	1.86	0.41
1:E:73:ASN:HB3	1:E:74:GLU:OE2	2.20	0.41
1:E:231:LYS:HB2	1:E:231:LYS:HE3	1.86	0.41
1:E:508:ILE:HG12	1:E:536:TYR:CD2	2.55	0.41
1:E:585:GLU:OE1	1:E:585:GLU:HA	2.18	0.41
1:F:66:LEU:HD11	1:F:97:TYR:CD2	2.55	0.41
1:F:279:ILE:HG22	1:F:283:LEU:CD1	2.51	0.41
1:F:743:PRO:HA	1:F:746:LYS:HE3	2.03	0.41
2:O:44:THR:OG1	2:O:47:GLU:CB	2.68	0.41
2:S:16:PHE:CE1	2:S:27:ILE:HG12	2.56	0.41
2:S:77:LYS:HG3	2:S:77:LYS:O	2.20	0.41
2:S:81:SER:O	2:S:82:GLU:C	2.63	0.41
2:S:117:THR:HG23	2:S:120:GLU:CG	2.51	0.41
2:T:54:GLU:O	2:T:55:VAL:HG13	2.20	0.41
1:A:115:LYS:C	1:A:117:LEU:H	2.28	0.41
1:A:123:GLU:CG	1:A:124:GLU:N	2.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:197:LYS:HD3	1:A:263:ASP:CG	2.46	0.41
1:A:217:LYS:HB2	1:A:236:GLU:CG	2.51	0.41
1:A:231:LYS:HE3	1:A:231:LYS:HB2	1.85	0.41
1:A:422:GLY:O	1:A:423:LYS:C	2.64	0.41
1:A:423:LYS:HE2	1:A:425:GLU:OE1	2.20	0.41
1:A:559:ARG:O	1:A:563:ALA:HB2	2.21	0.41
1:B:66:LEU:HD11	1:B:97:TYR:HD2	1.85	0.41
1:B:85:LEU:O	1:B:88:LYS:HE3	2.20	0.41
1:B:254:ARG:HD2	1:B:254:ARG:N	2.34	0.41
1:B:305:SER:O	1:B:331:VAL:HG23	2.20	0.41
1:B:414:LYS:C	1:B:416:ASN:N	2.79	0.41
1:B:514:ASP:C	1:B:516:VAL:N	2.76	0.41
1:B:636:ALA:O	1:B:640:LYS:CA	2.68	0.41
1:B:728:ALA:O	1:B:729:TYR:C	2.64	0.41
1:B:779:GLN:OE1	1:B:796:ILE:HD12	2.21	0.41
1:C:161:ILE:HG21	1:C:168:GLU:OE2	2.21	0.41
1:C:503:GLU:OE1	1:C:503:GLU:HA	2.21	0.41
1:C:728:ALA:O	1:C:729:TYR:C	2.64	0.41
1:D:70:GLU:HB3	1:D:71:PHE:H	1.74	0.41
1:D:403:LEU:CG	1:D:405:LEU:HD11	2.51	0.41
1:D:407:HIS:ND1	1:D:407:HIS:N	2.69	0.41
1:D:522:SER:O	2:R:124:MSE:HE2	2.21	0.41
1:D:655:ASN:N	1:D:655:ASN:ND2	2.69	0.41
1:E:90:PRO:O	1:E:91:LYS:C	2.63	0.41
1:E:622:LYS:HA	1:E:622:LYS:HD3	1.52	0.41
1:E:728:ALA:O	1:E:729:TYR:C	2.64	0.41
1:F:422:GLY:O	1:F:423:LYS:C	2.64	0.41
2:P:6:GLU:O	2:P:9:ILE:HB	2.20	0.41
2:P:137:ASN:O	2:P:138:TYR:C	2.64	0.41
2:R:140:GLU:O	2:R:143:GLN:HB2	2.21	0.41
2:S:6:GLU:O	2:S:9:ILE:HB	2.19	0.41
2:S:27:ILE:HA	2:S:31:GLU:OE2	2.21	0.41
2:S:137:ASN:O	2:S:138:TYR:C	2.62	0.41
2:T:4:LEU:CB	2:T:8:GLN:HE21	2.33	0.41
2:T:5:THR:O	2:T:8:GLN:HB3	2.20	0.41
1:A:115:LYS:N	1:A:118:GLN:HB2	2.35	0.41
1:A:412:GLU:O	1:A:416:ASN:HB2	2.20	0.41
1:A:607:ASN:HB3	1:A:609:GLU:OE2	2.21	0.41
1:A:667:LEU:HD13	1:A:678:VAL:HG21	2.02	0.41
1:B:115:LYS:C	1:B:117:LEU:H	2.28	0.41
1:B:407:HIS:ND1	1:B:407:HIS:N	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:775:LEU:O	1:B:776:LEU:C	2.64	0.41
1:C:85:LEU:HD12	1:C:168:GLU:OE1	2.21	0.41
1:C:90:PRO:O	1:C:92:ASP:N	2.53	0.41
1:C:115:LYS:C	1:C:117:LEU:H	2.28	0.41
1:C:240:ALA:O	1:C:241:PHE:C	2.62	0.41
1:C:422:GLY:O	1:C:423:LYS:C	2.64	0.41
1:C:585:GLU:OE1	1:C:585:GLU:HA	2.20	0.41
1:D:148:GLU:CG	1:D:149:THR:N	2.75	0.41
1:D:197:LYS:HD3	1:D:263:ASP:CG	2.45	0.41
1:D:240:ALA:C	1:D:242:SER:N	2.75	0.41
1:D:333:LYS:HD2	1:D:333:LYS:H	1.86	0.41
1:D:585:GLU:OE1	1:D:585:GLU:HA	2.21	0.41
1:D:694:VAL:CG2	2:R:18:LEU:HD21	2.50	0.41
1:E:252:ASP:CG	1:E:253:HIS:N	2.76	0.41
1:E:334:LEU:HD23	1:E:356:ASP:HA	2.02	0.41
1:E:338:LEU:HD21	1:E:409:ARG:HD3	2.02	0.41
1:F:131:ARG:CB	1:F:170:TYR:OH	2.69	0.41
1:F:186:LYS:CE	1:F:234:LEU:HB2	2.50	0.41
1:F:275:GLY:O	1:F:278:LYS:HD2	2.21	0.41
1:F:431:LYS:O	1:F:432:TYR:CD2	2.74	0.41
1:F:495:PHE:CD1	1:F:495:PHE:C	2.99	0.41
1:F:503:GLU:OE1	1:F:503:GLU:HA	2.21	0.41
1:F:585:GLU:OE1	1:F:585:GLU:HA	2.20	0.41
1:F:636:ALA:O	1:F:640:LYS:CA	2.69	0.41
1:F:659:THR:O	1:F:660:SER:C	2.64	0.41
1:F:775:LEU:O	1:F:776:LEU:C	2.64	0.41
2:P:59:GLY:O	2:P:62:THR:HG22	2.19	0.41
2:Q:44:THR:O	2:Q:45:GLU:C	2.64	0.41
2:Q:65:PHE:O	2:Q:68:PHE:HB3	2.20	0.41
2:R:138:TYR:O	2:R:141:PHE:HB3	2.21	0.41
2:T:18:LEU:HB3	2:T:19:PHE:CE1	2.54	0.41
2:T:52:ILE:CG2	2:T:53:ASN:H	2.34	0.41
2:T:75:LYS:O	2:T:79:THR:HG22	2.20	0.41
1:A:102:GLY:C	1:A:103:GLU:HG3	2.46	0.41
1:A:112:VAL:C	1:A:114:HIS:N	2.77	0.41
1:A:172:GLU:O	1:A:175:LYS:HB3	2.21	0.41
1:A:292:ARG:NE	1:A:617:LYS:HE3	2.35	0.41
1:A:431:LYS:O	1:A:432:TYR:CD2	2.74	0.41
1:A:508:ILE:HG12	1:A:536:TYR:CD2	2.56	0.41
1:A:521:ASN:HB3	1:A:524:GLU:CB	2.51	0.41
1:A:521:ASN:O	1:A:522:SER:C	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:525:LYS:O	1:A:526:GLN:C	2.63	0.41
1:A:694:VAL:CG2	2:O:18:LEU:HD21	2.50	0.41
1:A:764:LEU:C	1:A:766:HIS:N	2.77	0.41
1:B:100:LEU:CD1	1:B:182:ILE:HG21	2.51	0.41
1:B:270:LYS:HA	1:B:273:LYS:CG	2.51	0.41
1:B:338:LEU:HD21	1:B:409:ARG:HD3	2.02	0.41
1:B:412:GLU:O	1:B:416:ASN:HB2	2.21	0.41
1:B:574:VAL:HG13	1:B:575:VAL:HG23	2.03	0.41
1:B:581:GLN:O	1:B:629:ASN:HA	2.20	0.41
1:C:74:GLU:O	1:C:75:THR:O	2.39	0.41
1:C:186:LYS:HE3	1:C:234:LEU:HB2	2.02	0.41
1:C:257:LEU:O	1:C:261:ALA:O	2.38	0.41
1:C:279:ILE:HG22	1:C:283:LEU:CD1	2.51	0.41
1:C:307:LEU:HD12	1:C:307:LEU:N	2.34	0.41
1:C:338:LEU:O	1:C:343:VAL:CG2	2.67	0.41
1:C:339:ILE:O	1:C:340:LYS:C	2.64	0.41
1:C:403:LEU:CG	1:C:405:LEU:HD11	2.51	0.41
1:C:414:LYS:C	1:C:416:ASN:N	2.79	0.41
1:C:423:LYS:HE2	1:C:425:GLU:OE1	2.21	0.41
1:C:431:LYS:O	1:C:432:TYR:CD2	2.74	0.41
1:C:629:ASN:HB3	1:C:632:TYR:CZ	2.56	0.41
1:C:708:ALA:C	1:C:710:HIS:N	2.79	0.41
1:C:741:ILE:O	1:C:741:ILE:HG13	2.21	0.41
1:C:743:PRO:HA	1:C:746:LYS:HE3	2.03	0.41
1:C:752:LEU:O	1:C:753:LYS:C	2.62	0.41
1:D:85:LEU:O	1:D:88:LYS:HE3	2.21	0.41
1:D:99:GLU:C	1:D:101:GLY:N	2.78	0.41
1:D:102:GLY:C	1:D:103:GLU:HG3	2.45	0.41
1:D:184:LYS:CE	1:D:191:GLU:HB2	2.50	0.41
1:D:252:ASP:CG	1:D:253:HIS:N	2.76	0.41
1:D:338:LEU:HD21	1:D:409:ARG:HD3	2.02	0.41
1:D:339:ILE:O	1:D:340:LYS:C	2.63	0.41
1:D:414:LYS:HZ3	1:D:414:LYS:HA	1.85	0.41
1:D:462:ILE:HD11	1:D:466:GLY:CA	2.48	0.41
1:D:688:PHE:O	1:D:689:ALA:C	2.62	0.41
1:D:779:GLN:OE1	1:D:796:ILE:HD12	2.21	0.41
1:D:784:GLU:HG3	1:D:785:ASN:N	2.36	0.41
1:E:93:VAL:HG23	1:E:179:LEU:CD1	2.42	0.41
1:E:184:LYS:NZ	1:E:191:GLU:HB2	2.36	0.41
1:E:279:ILE:HG22	1:E:283:LEU:CD1	2.51	0.41
1:E:412:GLU:O	1:E:416:ASN:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:636:ALA:O	1:E:640:LYS:CA	2.69	0.41
1:E:685:LYS:HD3	1:E:685:LYS:HA	1.90	0.41
1:E:764:LEU:C	1:E:766:HIS:N	2.77	0.41
1:E:767:GLN:HB3	1:E:768:LYS:H	1.55	0.41
1:E:775:LEU:O	1:E:776:LEU:C	2.63	0.41
1:E:778:LYS:HB3	1:E:778:LYS:HE3	1.75	0.41
1:F:66:LEU:HD11	1:F:97:TYR:HD2	1.86	0.41
1:F:100:LEU:HD13	1:F:182:ILE:HG21	2.01	0.41
1:F:112:VAL:C	1:F:114:HIS:N	2.78	0.41
1:F:115:LYS:N	1:F:118:GLN:HB2	2.35	0.41
1:F:217:LYS:HB2	1:F:236:GLU:CG	2.51	0.41
1:F:240:ALA:O	1:F:241:PHE:C	2.63	0.41
1:F:278:LYS:O	1:F:281:GLU:HB2	2.21	0.41
1:F:376:GLN:C	1:F:378:LEU:H	2.29	0.41
1:F:525:LYS:O	1:F:526:GLN:C	2.62	0.41
1:F:557:LEU:HD11	1:F:575:VAL:CG1	2.51	0.41
1:F:559:ARG:O	1:F:563:ALA:HB2	2.21	0.41
1:F:680:LYS:O	1:F:687:GLU:HG2	2.20	0.41
1:F:688:PHE:O	1:F:689:ALA:C	2.63	0.41
1:F:752:LEU:O	1:F:753:LYS:C	2.63	0.41
2:O:76:MSE:C	2:O:78:ASP:N	2.79	0.41
2:P:44:THR:O	2:P:45:GLU:C	2.64	0.41
2:Q:4:LEU:CB	2:Q:8:GLN:HE21	2.33	0.41
2:Q:52:ILE:CG2	2:Q:53:ASN:N	2.84	0.41
2:Q:76:MSE:C	2:Q:78:ASP:N	2.79	0.41
2:Q:117:THR:HG23	2:Q:120:GLU:CG	2.51	0.41
2:R:16:PHE:CE1	2:R:27:ILE:HG12	2.56	0.41
2:R:137:ASN:O	2:R:138:TYR:C	2.63	0.41
2:S:54:GLU:O	2:S:55:VAL:HG22	2.21	0.41
2:S:59:GLY:O	2:S:62:THR:HG22	2.19	0.41
2:S:148:LYS:HE3	2:S:148:LYS:HB3	1.96	0.41
2:T:64:ASP:CG	2:T:67:GLU:HB2	2.46	0.41
2:T:117:THR:HG23	2:T:120:GLU:CG	2.50	0.41
2:T:140:GLU:O	2:T:143:GLN:HB2	2.20	0.41
1:A:677:GLY:HA2	1:A:745:TYR:OH	2.20	0.41
1:B:161:ILE:HG21	1:B:168:GLU:OE2	2.21	0.41
1:B:372:LYS:C	1:B:374:HIS:H	2.26	0.41
1:B:469:PHE:CD1	1:B:469:PHE:C	2.99	0.41
1:B:515:LYS:O	1:B:515:LYS:HG2	2.21	0.41
1:C:184:LYS:CE	1:C:191:GLU:HB2	2.49	0.41
1:C:450:ASN:ND2	1:C:452:GLU:CD	2.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:66:LEU:HD11	1:D:97:TYR:CD2	2.55	0.41
1:D:161:ILE:HG21	1:D:168:GLU:OE2	2.20	0.41
1:D:492:TYR:HB2	1:D:575:VAL:HG22	2.03	0.41
1:D:521:ASN:O	1:D:522:SER:C	2.64	0.41
1:D:794:GLN:HE22	1:D:795:LYS:CG	2.32	0.41
1:E:659:THR:O	1:E:660:SER:C	2.64	0.41
1:F:257:LEU:O	1:F:261:ALA:O	2.39	0.41
1:F:521:ASN:O	1:F:522:SER:C	2.63	0.41
2:O:27:ILE:HA	2:O:31:GLU:OE2	2.21	0.41
2:P:11:GLU:C	2:P:13:LYS:H	2.29	0.41
2:P:54:GLU:O	2:P:55:VAL:HG13	2.21	0.41
2:Q:111:ASN:C	2:Q:113:GLY:N	2.79	0.41
2:R:44:THR:OG1	2:R:47:GLU:CB	2.68	0.41
2:R:117:THR:HG23	2:R:120:GLU:CG	2.51	0.41
2:S:38:SER:C	2:S:40:GLY:H	2.28	0.41
2:T:111:ASN:C	2:T:113:GLY:N	2.79	0.41
1:A:172:GLU:HB3	1:A:246:SER:CA	2.46	0.40
1:A:288:VAL:O	1:A:289:GLU:C	2.65	0.40
1:A:349:ASN:HD22	1:A:350:VAL:HG23	1.85	0.40
1:A:495:PHE:CD1	1:A:495:PHE:C	2.98	0.40
1:A:585:GLU:HB3	1:A:586:PHE:CD1	2.56	0.40
1:A:609:GLU:N	1:A:609:GLU:CD	2.79	0.40
1:A:779:GLN:OE1	1:A:796:ILE:HD12	2.21	0.40
1:B:334:LEU:HD23	1:B:356:ASP:HA	2.02	0.40
1:B:680:LYS:O	1:B:687:GLU:HG2	2.20	0.40
1:C:270:LYS:HA	1:C:273:LYS:CG	2.51	0.40
1:C:338:LEU:HD21	1:C:409:ARG:HD3	2.02	0.40
1:C:371:SER:O	1:C:372:LYS:C	2.63	0.40
1:C:775:LEU:O	1:C:776:LEU:C	2.64	0.40
1:D:257:LEU:O	1:D:261:ALA:O	2.39	0.40
1:D:693:SER:OG	1:D:731:GLU:OE1	2.39	0.40
1:E:197:LYS:HD3	1:E:263:ASP:CG	2.46	0.40
1:E:199:LEU:O	1:E:201:ASP:N	2.52	0.40
1:E:338:LEU:O	1:E:343:VAL:CG2	2.67	0.40
1:E:512:GLU:O	1:E:516:VAL:HG23	2.20	0.40
1:E:515:LYS:O	1:E:515:LYS:HG2	2.21	0.40
1:E:527:LYS:HB3	1:E:527:LYS:HE2	1.86	0.40
1:E:693:SER:O	1:E:696:LYS:HB2	2.21	0.40
1:F:521:ASN:HB3	1:F:524:GLU:CB	2.51	0.40
2:O:16:PHE:CE1	2:O:27:ILE:HG12	2.55	0.40
2:P:52:ILE:CG2	2:P:53:ASN:N	2.84	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:27:ILE:HA	2:Q:31:GLU:OE2	2.21	0.40
2:Q:54:GLU:O	2:Q:55:VAL:HG13	2.21	0.40
2:R:76:MSE:C	2:R:78:ASP:N	2.78	0.40
1:A:338:LEU:HD21	1:A:409:ARG:NE	2.37	0.40
1:A:345:THR:OG1	1:A:573:ASP:O	2.37	0.40
1:A:632:TYR:O	1:A:633:ASN:HB2	2.20	0.40
1:A:775:LEU:O	1:A:776:LEU:C	2.64	0.40
1:A:784:GLU:HG3	1:A:785:ASN:N	2.36	0.40
1:B:184:LYS:NZ	1:B:191:GLU:HB2	2.37	0.40
1:B:197:LYS:C	1:B:197:LYS:NZ	2.79	0.40
1:B:275:GLY:O	1:B:278:LYS:HD2	2.21	0.40
1:B:338:LEU:HD21	1:B:409:ARG:NE	2.37	0.40
1:B:403:LEU:CG	1:B:405:LEU:HD11	2.52	0.40
1:B:558:ASP:C	1:B:560:LEU:N	2.78	0.40
1:C:376:GLN:C	1:C:378:LEU:H	2.30	0.40
1:C:666:ASN:HB2	1:C:748:TYR:CZ	2.57	0.40
1:D:469:PHE:C	1:D:469:PHE:CD1	3.00	0.40
1:D:585:GLU:HB3	1:D:586:PHE:CD1	2.56	0.40
1:D:683:GLY:O	1:D:684:ASP:C	2.63	0.40
1:D:743:PRO:HA	1:D:746:LYS:HB3	2.03	0.40
1:D:764:LEU:HD23	1:D:764:LEU:HA	1.85	0.40
1:E:257:LEU:O	1:E:261:ALA:O	2.38	0.40
1:E:376:GLN:C	1:E:378:LEU:H	2.29	0.40
1:E:407:HIS:ND1	1:E:407:HIS:N	2.69	0.40
1:E:414:LYS:C	1:E:414:LYS:HZ2	2.27	0.40
1:E:469:PHE:C	1:E:469:PHE:CD1	2.99	0.40
1:E:503:GLU:OE1	1:E:503:GLU:HA	2.21	0.40
1:E:574:VAL:HG13	1:E:575:VAL:HG23	2.03	0.40
1:E:619:ILE:O	1:E:620:THR:C	2.64	0.40
1:F:197:LYS:HE3	1:F:264:MET:SD	2.61	0.40
1:F:318:ILE:CG2	1:F:322:LEU:HD12	2.51	0.40
1:F:423:LYS:HE2	1:F:425:GLU:OE1	2.20	0.40
1:F:629:ASN:HB3	1:F:632:TYR:CZ	2.56	0.40
2:P:27:ILE:HA	2:P:31:GLU:OE2	2.20	0.40
2:P:64:ASP:CG	2:P:67:GLU:HB2	2.46	0.40
2:R:38:SER:C	2:R:40:GLY:H	2.27	0.40
2:T:44:THR:O	2:T:45:GLU:C	2.64	0.40
1:A:66:LEU:HD11	1:A:97:TYR:CD2	2.56	0.40
1:A:271:LEU:HA	1:A:271:LEU:HD23	1.87	0.40
1:A:278:LYS:O	1:A:281:GLU:HB2	2.21	0.40
1:A:666:ASN:HB2	1:A:748:TYR:CZ	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:708:ALA:C	1:A:710:HIS:N	2.80	0.40
1:B:128:MET:H	1:B:128:MET:HG2	1.77	0.40
1:B:515:LYS:HZ3	1:B:516:VAL:CG2	2.34	0.40
1:B:636:ALA:HA	1:B:637:PRO:HD3	1.86	0.40
1:B:752:LEU:O	1:B:753:LYS:C	2.63	0.40
1:C:81:GLN:OE1	1:C:156:ILE:HG21	2.21	0.40
1:C:159:TYR:CD1	1:C:159:TYR:N	2.90	0.40
1:C:165:GLN:HG2	1:C:251:PRO:CG	2.51	0.40
1:C:217:LYS:HG3	1:C:236:GLU:HG3	2.03	0.40
1:C:504:ILE:H	1:C:504:ILE:CD1	2.32	0.40
1:C:559:ARG:O	1:C:563:ALA:HB2	2.21	0.40
1:C:779:GLN:OE1	1:C:796:ILE:HD12	2.21	0.40
1:D:152:LEU:HD21	1:D:154:ILE:HD11	2.02	0.40
1:D:278:LYS:HB2	1:D:279:ILE:H	1.64	0.40
1:D:658:PRO:HD3	1:D:755:ARG:HH11	1.86	0.40
1:D:710:HIS:C	1:D:712:PHE:N	2.77	0.40
1:E:414:LYS:C	1:E:414:LYS:HD3	2.47	0.40
1:E:414:LYS:C	1:E:416:ASN:N	2.79	0.40
1:E:423:LYS:HE2	1:E:425:GLU:OE1	2.21	0.40
1:E:607:ASN:HB3	1:E:609:GLU:OE2	2.22	0.40
1:E:655:ASN:N	1:E:655:ASN:ND2	2.68	0.40
1:F:437:SER:C	1:F:439:ASN:N	2.80	0.40
1:F:492:TYR:HB2	1:F:575:VAL:HG22	2.04	0.40
1:F:508:ILE:HG12	1:F:536:TYR:CD2	2.56	0.40
1:F:598:PRO:HG3	1:F:624:TYR:OH	2.20	0.40
2:O:117:THR:HG23	2:O:120:GLU:CG	2.51	0.40
2:P:81:SER:O	2:P:82:GLU:C	2.63	0.40
2:R:52:ILE:CG2	2:R:53:ASN:N	2.84	0.40
2:R:81:SER:O	2:R:82:GLU:C	2.62	0.40
2:R:111:ASN:C	2:R:113:GLY:N	2.79	0.40
2:T:11:GLU:C	2:T:13:LYS:H	2.29	0.40
1:A:115:LYS:C	1:A:117:LEU:N	2.80	0.40
1:A:376:GLN:C	1:A:378:LEU:H	2.29	0.40
1:A:743:PRO:HA	1:A:746:LYS:HE3	2.03	0.40
1:A:752:LEU:O	1:A:753:LYS:C	2.61	0.40
1:B:184:LYS:O	1:B:185:ASP:C	2.62	0.40
1:B:217:LYS:HG3	1:B:236:GLU:HG3	2.03	0.40
1:B:240:ALA:C	1:B:242:SER:N	2.75	0.40
1:B:431:LYS:O	1:B:432:TYR:CD2	2.74	0.40
1:B:540:ARG:HD3	1:B:627:TYR:OH	2.21	0.40
1:B:585:GLU:HB3	1:B:586:PHE:CD1	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:667:LEU:HD13	1:B:678:VAL:HG21	2.03	0.40
1:B:741:ILE:O	1:B:741:ILE:HG13	2.21	0.40
1:B:784:GLU:HG3	1:B:785:ASN:H	1.87	0.40
1:B:784:GLU:HG3	1:B:785:ASN:N	2.36	0.40
1:C:66:LEU:HD11	1:C:97:TYR:HD2	1.86	0.40
1:C:99:GLU:C	1:C:101:GLY:N	2.78	0.40
1:C:745:TYR:O	1:C:746:LYS:C	2.64	0.40
1:C:784:GLU:HG3	1:C:785:ASN:N	2.36	0.40
1:D:767:GLN:HB3	1:D:768:LYS:H	1.55	0.40
1:D:775:LEU:O	1:D:776:LEU:C	2.64	0.40
1:E:288:VAL:O	1:E:289:GLU:C	2.64	0.40
1:E:371:SER:O	1:E:372:LYS:C	2.64	0.40
1:E:495:PHE:CD1	1:E:495:PHE:C	2.99	0.40
1:E:504:ILE:H	1:E:504:ILE:CD1	2.32	0.40
1:E:522:SER:O	2:S:124:MSE:HE2	2.22	0.40
1:E:784:GLU:HG3	1:E:785:ASN:N	2.36	0.40
1:F:73:ASN:HB3	1:F:74:GLU:OE2	2.21	0.40
1:F:338:LEU:HD21	1:F:409:ARG:NE	2.36	0.40
1:F:756:ILE:H	1:F:756:ILE:HG12	1.63	0.40
2:R:64:ASP:CG	2:R:67:GLU:HB2	2.46	0.40
2:T:56:ASP:CG	2:T:60:ASN:HA	2.46	0.40
1:A:74:GLU:O	1:A:75:THR:O	2.39	0.40
1:A:264:MET:SD	1:A:267:TYR:HD2	2.45	0.40
1:A:318:ILE:CG2	1:A:322:LEU:HD12	2.52	0.40
1:A:403:LEU:CG	1:A:405:LEU:HD11	2.52	0.40
1:A:533:LEU:C	1:A:533:LEU:CD2	2.95	0.40
1:A:558:ASP:C	1:A:560:LEU:N	2.78	0.40
1:A:636:ALA:O	1:A:640:LYS:CA	2.68	0.40
1:B:115:LYS:HZ1	1:B:117:LEU:HB2	1.85	0.40
1:B:318:ILE:CG2	1:B:322:LEU:HD12	2.51	0.40
1:B:690:LYS:HD3	1:B:741:ILE:HG23	2.04	0.40
1:B:764:LEU:HD23	1:B:764:LEU:HA	1.85	0.40
1:C:66:LEU:HD11	1:C:97:TYR:CD2	2.56	0.40
1:C:323:ASN:C	1:C:323:ASN:ND2	2.76	0.40
1:C:585:GLU:HB3	1:C:586:PHE:CD1	2.56	0.40
1:C:656:THR:O	1:C:755:ARG:NH1	2.55	0.40
1:D:137:PHE:O	1:D:138:ALA:C	2.65	0.40
1:D:275:GLY:O	1:D:278:LYS:HD2	2.21	0.40
1:D:437:SER:C	1:D:439:ASN:N	2.80	0.40
1:D:514:ASP:C	1:D:516:VAL:N	2.77	0.40
1:D:532:LEU:HA	1:D:532:LEU:HD23	1.77	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:619:ILE:O	1:D:620:THR:C	2.65	0.40
1:D:694:VAL:O	1:D:695:LYS:C	2.65	0.40
1:D:708:ALA:C	1:D:710:HIS:N	2.80	0.40
1:E:70:GLU:CB	1:E:107:THR:HG22	2.43	0.40
1:E:275:GLY:O	1:E:278:LYS:HD2	2.21	0.40
1:E:422:GLY:O	1:E:423:LYS:C	2.64	0.40
1:E:585:GLU:HB3	1:E:586:PHE:CD1	2.57	0.40
1:E:674:SER:C	1:E:676:VAL:H	2.30	0.40
1:E:677:GLY:HA2	1:E:745:TYR:OH	2.22	0.40
1:E:694:VAL:O	1:E:695:LYS:C	2.64	0.40
1:E:743:PRO:HA	1:E:746:LYS:HE3	2.04	0.40
1:F:172:GLU:O	1:F:175:LYS:HB3	2.21	0.40
1:F:231:LYS:HE3	1:F:231:LYS:HB2	1.85	0.40
1:F:585:GLU:HB3	1:F:586:PHE:CD1	2.56	0.40
1:F:784:GLU:HG3	1:F:785:ASN:N	2.36	0.40
2:O:18:LEU:HB3	2:O:19:PHE:HD1	1.83	0.40
2:P:30:LYS:HD3	2:P:30:LYS:N	2.11	0.40
2:Q:18:LEU:HB3	2:Q:19:PHE:HD1	1.82	0.40
2:Q:102:ALA:CA	2:Q:125:ILE:HG13	2.51	0.40
2:R:18:LEU:HB3	2:R:19:PHE:HD1	1.83	0.40
2:R:76:MSE:HE3	2:R:76:MSE:HB2	1.65	0.40

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

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:682:SER:O	1:B:682:SER:O[2_555]	2.16	0.04
1:C:682:SER:O	1:F:682:SER:O[4_556]	2.18	0.02

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all 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	733/777 (94%)	526 (72%)	161 (22%)	46 (6%)	1	8
1	B	733/777 (94%)	525 (72%)	159 (22%)	49 (7%)	1	7
1	C	733/777 (94%)	526 (72%)	159 (22%)	48 (6%)	1	8
1	D	733/777 (94%)	523 (71%)	162 (22%)	48 (6%)	1	8
1	E	733/777 (94%)	522 (71%)	164 (22%)	47 (6%)	1	8
1	F	733/777 (94%)	526 (72%)	158 (22%)	49 (7%)	1	7
2	O	144/149 (97%)	110 (76%)	21 (15%)	13 (9%)	0	3
2	P	144/149 (97%)	108 (75%)	22 (15%)	14 (10%)	0	3
2	Q	144/149 (97%)	109 (76%)	23 (16%)	12 (8%)	0	4
2	R	144/149 (97%)	108 (75%)	24 (17%)	12 (8%)	0	4
2	S	144/149 (97%)	109 (76%)	23 (16%)	12 (8%)	0	4
2	T	144/149 (97%)	110 (76%)	22 (15%)	12 (8%)	0	4
All	All	5262/5556 (95%)	3802 (72%)	1098 (21%)	362 (7%)	1	7

All (362) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	75	THR
1	A	80	GLN
1	A	135	VAL
1	A	137	PHE
1	A	180	ASP
1	A	181	ILE
1	A	278	LYS
1	A	438	ASN
1	A	510	GLN
1	A	675	ASN
1	A	787	THR
1	B	75	THR
1	B	80	GLN
1	B	135	VAL
1	B	137	PHE
1	B	180	ASP
1	B	181	ILE
1	B	278	LYS
1	B	438	ASN
1	B	510	GLN
1	B	675	ASN
1	B	787	THR

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Mol	Chain	Res	Type
1	C	75	THR
1	C	80	GLN
1	C	135	VAL
1	C	137	PHE
1	C	180	ASP
1	C	181	ILE
1	C	278	LYS
1	C	438	ASN
1	C	510	GLN
1	C	675	ASN
1	C	787	THR
1	D	75	THR
1	D	80	GLN
1	D	135	VAL
1	D	137	PHE
1	D	180	ASP
1	D	181	ILE
1	D	278	LYS
1	D	438	ASN
1	D	510	GLN
1	D	675	ASN
1	D	787	THR
1	E	75	THR
1	E	80	GLN
1	E	135	VAL
1	E	137	PHE
1	E	180	ASP
1	E	181	ILE
1	E	278	LYS
1	E	438	ASN
1	E	510	GLN
1	E	675	ASN
1	E	787	THR
1	F	75	THR
1	F	80	GLN
1	F	135	VAL
1	F	137	PHE
1	F	180	ASP
1	F	181	ILE
1	F	278	LYS
1	F	438	ASN
1	F	510	GLN

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Mol	Chain	Res	Type
1	F	675	ASN
1	F	787	THR
2	O	23	GLY
2	O	60	ASN
2	P	23	GLY
2	Q	23	GLY
2	R	23	GLY
2	S	23	GLY
2	T	23	GLY
1	A	109	ILE
1	A	120	LEU
1	A	138	ALA
1	A	176	GLY
1	A	192	PHE
1	A	290	LYS
1	A	302	LEU
1	A	559	ARG
1	B	109	ILE
1	B	120	LEU
1	B	138	ALA
1	B	176	GLY
1	B	192	PHE
1	B	290	LYS
1	B	302	LEU
1	B	559	ARG
1	C	109	ILE
1	C	120	LEU
1	C	138	ALA
1	C	176	GLY
1	C	192	PHE
1	C	290	LYS
1	C	302	LEU
1	C	559	ARG
1	D	109	ILE
1	D	120	LEU
1	D	138	ALA
1	D	176	GLY
1	D	192	PHE
1	D	290	LYS
1	D	302	LEU
1	D	559	ARG
1	E	109	ILE

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Mol	Chain	Res	Type
1	E	120	LEU
1	E	138	ALA
1	E	176	GLY
1	E	192	PHE
1	E	290	LYS
1	E	302	LEU
1	E	559	ARG
1	F	109	ILE
1	F	120	LEU
1	F	138	ALA
1	F	176	GLY
1	F	192	PHE
1	F	290	LYS
1	F	302	LEU
1	F	559	ARG
2	O	24	ASP
2	O	50	ASP
2	O	67	GLU
2	P	24	ASP
2	P	50	ASP
2	P	67	GLU
2	Q	24	ASP
2	Q	50	ASP
2	Q	67	GLU
2	R	24	ASP
2	R	50	ASP
2	R	67	GLU
2	S	24	ASP
2	S	50	ASP
2	S	67	GLU
2	T	24	ASP
2	T	50	ASP
2	T	67	GLU
1	A	70	GLU
1	A	91	LYS
1	A	113	GLU
1	A	200	SER
1	A	232	GLU
1	A	377	GLN
1	A	638	GLY
1	A	698	ALA
1	A	779	GLN

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Mol	Chain	Res	Type
1	B	70	GLU
1	B	91	LYS
1	B	113	GLU
1	B	200	SER
1	B	232	GLU
1	B	376	GLN
1	B	377	GLN
1	B	638	GLY
1	B	698	ALA
1	B	779	GLN
1	C	70	GLU
1	C	91	LYS
1	C	113	GLU
1	C	200	SER
1	C	232	GLU
1	C	376	GLN
1	C	377	GLN
1	C	638	GLY
1	C	698	ALA
1	C	779	GLN
1	D	70	GLU
1	D	113	GLU
1	D	200	SER
1	D	232	GLU
1	D	376	GLN
1	D	638	GLY
1	D	698	ALA
1	D	779	GLN
1	E	70	GLU
1	E	91	LYS
1	E	113	GLU
1	E	200	SER
1	E	232	GLU
1	E	376	GLN
1	E	638	GLY
1	E	698	ALA
1	E	779	GLN
1	F	70	GLU
1	F	91	LYS
1	F	113	GLU
1	F	200	SER
1	F	232	GLU

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Mol	Chain	Res	Type
1	F	376	GLN
1	F	638	GLY
1	F	698	ALA
1	F	779	GLN
2	O	25	GLY
2	O	74	ARG
2	O	82	GLU
2	O	118	ASP
2	O	120	GLU
2	P	60	ASN
2	P	74	ARG
2	P	82	GLU
2	P	118	ASP
2	P	120	GLU
2	Q	74	ARG
2	Q	82	GLU
2	Q	118	ASP
2	Q	120	GLU
2	R	74	ARG
2	R	82	GLU
2	R	118	ASP
2	R	120	GLU
2	S	74	ARG
2	S	118	ASP
2	S	120	GLU
2	T	25	GLY
2	T	74	ARG
2	T	82	GLU
2	T	118	ASP
2	T	120	GLU
1	A	108	ASP
1	A	307	LEU
1	A	376	GLN
1	A	452	GLU
1	A	471	TRP
1	B	108	ASP
1	B	471	TRP
1	B	537	GLY
1	C	108	ASP
1	C	307	LEU
1	C	471	TRP
1	C	672	ARG

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Mol	Chain	Res	Type
1	D	91	LYS
1	D	108	ASP
1	D	307	LEU
1	D	377	GLN
1	D	452	GLU
1	D	471	TRP
1	D	672	ARG
1	E	108	ASP
1	E	294	ASP
1	E	307	LEU
1	E	377	GLN
1	E	471	TRP
1	E	672	ARG
1	F	108	ASP
1	F	307	LEU
1	F	377	GLN
1	F	471	TRP
2	O	12	PHE
2	P	12	PHE
2	P	25	GLY
2	Q	12	PHE
2	Q	22	ASP
2	Q	25	GLY
2	R	12	PHE
2	R	25	GLY
2	S	12	PHE
2	S	25	GLY
2	S	82	GLU
2	T	12	PHE
1	A	177	ILE
1	A	274	GLY
1	A	294	ASP
1	A	334	LEU
1	A	537	GLY
1	A	672	ARG
1	B	274	GLY
1	B	294	ASP
1	B	307	LEU
1	B	334	LEU
1	B	452	GLU
1	B	672	ARG
1	B	775	LEU

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Mol	Chain	Res	Type
1	C	274	GLY
1	C	294	ASP
1	C	334	LEU
1	C	452	GLU
1	C	537	GLY
1	D	274	GLY
1	D	294	ASP
1	D	334	LEU
1	D	537	GLY
1	D	580	GLU
1	D	775	LEU
1	E	274	GLY
1	E	334	LEU
1	E	452	GLU
1	E	537	GLY
1	E	775	LEU
1	F	274	GLY
1	F	294	ASP
1	F	334	LEU
1	F	452	GLU
1	F	537	GLY
1	F	580	GLU
1	F	672	ARG
1	F	775	LEU
2	O	21	LYS
2	O	22	ASP
2	P	21	LYS
2	P	22	ASP
2	Q	21	LYS
2	R	21	LYS
2	R	22	ASP
2	S	21	LYS
2	S	22	ASP
2	T	21	LYS
2	T	22	ASP
1	A	775	LEU
1	B	65	ASN
1	B	177	ILE
1	B	580	GLU
1	B	585	GLU
1	C	177	ILE
1	C	580	GLU

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Mol	Chain	Res	Type
1	C	669	SER
1	C	775	LEU
1	D	177	ILE
1	D	669	SER
1	E	177	ILE
1	E	580	GLU
1	F	177	ILE
1	F	423	LYS
1	F	669	SER
2	P	61	GLY
1	A	112	VAL
1	A	711	ILE
1	B	112	VAL
1	B	711	ILE
1	C	112	VAL
1	D	112	VAL
1	E	112	VAL
1	E	711	ILE
1	F	112	VAL
1	F	711	ILE
1	A	484	VAL
1	B	484	VAL
1	C	484	VAL
1	C	711	ILE
1	D	484	VAL
1	D	711	ILE
1	F	481	VAL
1	F	484	VAL
1	A	182	ILE
1	A	441	VAL
1	A	481	VAL
1	B	182	ILE
1	B	441	VAL
1	B	481	VAL
1	C	182	ILE
1	C	441	VAL
1	C	481	VAL
1	D	182	ILE
1	D	441	VAL
1	D	481	VAL
1	E	182	ILE
1	E	441	VAL

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Mol	Chain	Res	Type
1	E	481	VAL
1	E	484	VAL
1	F	182	ILE
1	F	441	VAL

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	664/705 (94%)	586 (88%)	78 (12%)	5	23
1	B	664/705 (94%)	587 (88%)	77 (12%)	5	24
1	C	664/705 (94%)	587 (88%)	77 (12%)	5	24
1	D	664/705 (94%)	588 (89%)	76 (11%)	5	24
1	E	664/705 (94%)	586 (88%)	78 (12%)	5	23
1	F	664/705 (94%)	588 (89%)	76 (11%)	5	24
2	O	123/117 (105%)	102 (83%)	21 (17%)	2	11
2	P	123/117 (105%)	103 (84%)	20 (16%)	2	12
2	Q	123/117 (105%)	102 (83%)	21 (17%)	2	11
2	R	123/117 (105%)	103 (84%)	20 (16%)	2	12
2	S	123/117 (105%)	102 (83%)	21 (17%)	2	11
2	T	123/117 (105%)	102 (83%)	21 (17%)	2	11
All	All	4722/4932 (96%)	4136 (88%)	586 (12%)	4	21

All (586) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	67	VAL
1	A	69	THR
1	A	78	LYS
1	A	85	LEU
1	A	112	VAL
1	A	114	HIS

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Mol	Chain	Res	Type
1	A	115	LYS
1	A	117	LEU
1	A	120	LEU
1	A	125	LYS
1	A	133	GLU
1	A	141	PHE
1	A	147	ARG
1	A	149	THR
1	A	156	ILE
1	A	158	ASP
1	A	159	TYR
1	A	172	GLU
1	A	175	LYS
1	A	179	LEU
1	A	180	ASP
1	A	182	ILE
1	A	188	LEU
1	A	197	LYS
1	A	209	LEU
1	A	212	GLN
1	A	213	LYS
1	A	217	LYS
1	A	236	GLU
1	A	254	ARG
1	A	255	THR
1	A	279	ILE
1	A	284	LYS
1	A	292	ARG
1	A	296	LEU
1	A	320	ARG
1	A	324	THR
1	A	331	VAL
1	A	349	ASN
1	A	364	ILE
1	A	370	LEU
1	A	376	GLN
1	A	377	GLN
1	A	395	GLU
1	A	397	GLU
1	A	400	LYS
1	A	408	LEU
1	A	413	LEU

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Mol	Chain	Res	Type
1	A	414	LYS
1	A	415	GLU
1	A	427	ASP
1	A	434	LEU
1	A	438	ASN
1	A	455	TYR
1	A	479	LYS
1	A	484	VAL
1	A	515	LYS
1	A	527	LYS
1	A	562	GLU
1	A	567	THR
1	A	581	GLN
1	A	583	ASN
1	A	620	THR
1	A	629	ASN
1	A	635	ILE
1	A	639	ASN
1	A	644	GLU
1	A	646	THR
1	A	665	LYS
1	A	669	SER
1	A	672	ARG
1	A	678	VAL
1	A	688	PHE
1	A	714	GLN
1	A	741	ILE
1	A	744	GLU
1	A	755	ARG
1	A	794	GLN
1	B	67	VAL
1	B	69	THR
1	B	78	LYS
1	B	85	LEU
1	B	112	VAL
1	B	114	HIS
1	B	115	LYS
1	B	117	LEU
1	B	120	LEU
1	B	125	LYS
1	B	133	GLU
1	B	141	PHE

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Mol	Chain	Res	Type
1	B	147	ARG
1	B	149	THR
1	B	156	ILE
1	B	158	ASP
1	B	172	GLU
1	B	175	LYS
1	B	179	LEU
1	B	180	ASP
1	B	182	ILE
1	B	188	LEU
1	B	197	LYS
1	B	209	LEU
1	B	212	GLN
1	B	213	LYS
1	B	217	LYS
1	B	236	GLU
1	B	254	ARG
1	B	255	THR
1	B	279	ILE
1	B	284	LYS
1	B	292	ARG
1	B	296	LEU
1	B	320	ARG
1	B	324	THR
1	B	331	VAL
1	B	349	ASN
1	B	364	ILE
1	B	370	LEU
1	B	376	GLN
1	B	377	GLN
1	B	395	GLU
1	B	397	GLU
1	B	400	LYS
1	B	408	LEU
1	B	413	LEU
1	B	414	LYS
1	B	415	GLU
1	B	427	ASP
1	B	434	LEU
1	B	438	ASN
1	B	455	TYR
1	B	479	LYS

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Mol	Chain	Res	Type
1	B	484	VAL
1	B	515	LYS
1	B	527	LYS
1	B	562	GLU
1	B	567	THR
1	B	581	GLN
1	B	583	ASN
1	B	620	THR
1	B	629	ASN
1	B	635	ILE
1	B	639	ASN
1	B	644	GLU
1	B	646	THR
1	B	665	LYS
1	B	669	SER
1	B	672	ARG
1	B	678	VAL
1	B	688	PHE
1	B	714	GLN
1	B	741	ILE
1	B	744	GLU
1	B	755	ARG
1	B	794	GLN
1	C	67	VAL
1	C	69	THR
1	C	78	LYS
1	C	85	LEU
1	C	112	VAL
1	C	114	HIS
1	C	115	LYS
1	C	117	LEU
1	C	120	LEU
1	C	125	LYS
1	C	133	GLU
1	C	141	PHE
1	C	147	ARG
1	C	149	THR
1	C	156	ILE
1	C	158	ASP
1	C	172	GLU
1	C	175	LYS
1	C	179	LEU

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Mol	Chain	Res	Type
1	C	180	ASP
1	C	182	ILE
1	C	188	LEU
1	C	197	LYS
1	C	209	LEU
1	C	212	GLN
1	C	213	LYS
1	C	217	LYS
1	C	236	GLU
1	C	254	ARG
1	C	255	THR
1	C	279	ILE
1	C	284	LYS
1	C	292	ARG
1	C	296	LEU
1	C	320	ARG
1	C	324	THR
1	C	331	VAL
1	C	349	ASN
1	C	364	ILE
1	C	370	LEU
1	C	376	GLN
1	C	377	GLN
1	C	395	GLU
1	C	397	GLU
1	C	400	LYS
1	C	408	LEU
1	C	413	LEU
1	C	414	LYS
1	C	415	GLU
1	C	427	ASP
1	C	434	LEU
1	C	438	ASN
1	C	455	TYR
1	C	479	LYS
1	C	484	VAL
1	C	515	LYS
1	C	527	LYS
1	C	562	GLU
1	C	567	THR
1	C	581	GLN
1	C	583	ASN

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Mol	Chain	Res	Type
1	C	620	THR
1	C	629	ASN
1	C	635	ILE
1	C	639	ASN
1	C	644	GLU
1	C	646	THR
1	C	665	LYS
1	C	669	SER
1	C	672	ARG
1	C	678	VAL
1	C	688	PHE
1	C	714	GLN
1	C	741	ILE
1	C	744	GLU
1	C	755	ARG
1	C	794	GLN
1	D	67	VAL
1	D	69	THR
1	D	78	LYS
1	D	112	VAL
1	D	114	HIS
1	D	115	LYS
1	D	117	LEU
1	D	120	LEU
1	D	125	LYS
1	D	133	GLU
1	D	141	PHE
1	D	147	ARG
1	D	149	THR
1	D	156	ILE
1	D	158	ASP
1	D	172	GLU
1	D	175	LYS
1	D	179	LEU
1	D	180	ASP
1	D	182	ILE
1	D	188	LEU
1	D	197	LYS
1	D	209	LEU
1	D	212	GLN
1	D	213	LYS
1	D	217	LYS

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Mol	Chain	Res	Type
1	D	236	GLU
1	D	254	ARG
1	D	255	THR
1	D	279	ILE
1	D	284	LYS
1	D	292	ARG
1	D	296	LEU
1	D	320	ARG
1	D	324	THR
1	D	331	VAL
1	D	349	ASN
1	D	364	ILE
1	D	370	LEU
1	D	376	GLN
1	D	377	GLN
1	D	395	GLU
1	D	397	GLU
1	D	400	LYS
1	D	408	LEU
1	D	413	LEU
1	D	414	LYS
1	D	415	GLU
1	D	427	ASP
1	D	434	LEU
1	D	438	ASN
1	D	455	TYR
1	D	479	LYS
1	D	484	VAL
1	D	515	LYS
1	D	527	LYS
1	D	562	GLU
1	D	567	THR
1	D	581	GLN
1	D	583	ASN
1	D	620	THR
1	D	629	ASN
1	D	635	ILE
1	D	639	ASN
1	D	644	GLU
1	D	646	THR
1	D	665	LYS
1	D	669	SER

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Mol	Chain	Res	Type
1	D	672	ARG
1	D	678	VAL
1	D	688	PHE
1	D	714	GLN
1	D	741	ILE
1	D	744	GLU
1	D	755	ARG
1	D	794	GLN
1	E	67	VAL
1	E	69	THR
1	E	78	LYS
1	E	85	LEU
1	E	112	VAL
1	E	114	HIS
1	E	115	LYS
1	E	117	LEU
1	E	120	LEU
1	E	125	LYS
1	E	133	GLU
1	E	141	PHE
1	E	147	ARG
1	E	149	THR
1	E	156	ILE
1	E	158	ASP
1	E	159	TYR
1	E	172	GLU
1	E	175	LYS
1	E	179	LEU
1	E	180	ASP
1	E	182	ILE
1	E	188	LEU
1	E	197	LYS
1	E	209	LEU
1	E	212	GLN
1	E	213	LYS
1	E	217	LYS
1	E	236	GLU
1	E	254	ARG
1	E	255	THR
1	E	279	ILE
1	E	284	LYS
1	E	292	ARG

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Mol	Chain	Res	Type
1	E	296	LEU
1	E	320	ARG
1	E	324	THR
1	E	331	VAL
1	E	349	ASN
1	E	364	ILE
1	E	370	LEU
1	E	376	GLN
1	E	377	GLN
1	E	395	GLU
1	E	397	GLU
1	E	400	LYS
1	E	408	LEU
1	E	413	LEU
1	E	414	LYS
1	E	415	GLU
1	E	427	ASP
1	E	434	LEU
1	E	438	ASN
1	E	455	TYR
1	E	479	LYS
1	E	484	VAL
1	E	515	LYS
1	E	527	LYS
1	E	562	GLU
1	E	567	THR
1	E	581	GLN
1	E	583	ASN
1	E	620	THR
1	E	629	ASN
1	E	635	ILE
1	E	639	ASN
1	E	644	GLU
1	E	646	THR
1	E	665	LYS
1	E	669	SER
1	E	672	ARG
1	E	678	VAL
1	E	688	PHE
1	E	714	GLN
1	E	741	ILE
1	E	744	GLU

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Mol	Chain	Res	Type
1	E	755	ARG
1	E	794	GLN
1	F	67	VAL
1	F	69	THR
1	F	78	LYS
1	F	85	LEU
1	F	112	VAL
1	F	114	HIS
1	F	115	LYS
1	F	120	LEU
1	F	125	LYS
1	F	133	GLU
1	F	141	PHE
1	F	147	ARG
1	F	149	THR
1	F	156	ILE
1	F	158	ASP
1	F	172	GLU
1	F	175	LYS
1	F	179	LEU
1	F	180	ASP
1	F	182	ILE
1	F	188	LEU
1	F	197	LYS
1	F	209	LEU
1	F	212	GLN
1	F	213	LYS
1	F	217	LYS
1	F	236	GLU
1	F	254	ARG
1	F	255	THR
1	F	279	ILE
1	F	284	LYS
1	F	292	ARG
1	F	296	LEU
1	F	320	ARG
1	F	324	THR
1	F	331	VAL
1	F	349	ASN
1	F	364	ILE
1	F	370	LEU
1	F	376	GLN

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Mol	Chain	Res	Type
1	F	377	GLN
1	F	395	GLU
1	F	397	GLU
1	F	400	LYS
1	F	408	LEU
1	F	413	LEU
1	F	414	LYS
1	F	415	GLU
1	F	427	ASP
1	F	434	LEU
1	F	438	ASN
1	F	455	TYR
1	F	479	LYS
1	F	484	VAL
1	F	515	LYS
1	F	527	LYS
1	F	562	GLU
1	F	567	THR
1	F	581	GLN
1	F	583	ASN
1	F	620	THR
1	F	629	ASN
1	F	635	ILE
1	F	639	ASN
1	F	644	GLU
1	F	646	THR
1	F	665	LYS
1	F	669	SER
1	F	672	ARG
1	F	678	VAL
1	F	688	PHE
1	F	714	GLN
1	F	741	ILE
1	F	744	GLU
1	F	755	ARG
1	F	794	GLN
2	O	5	THR
2	O	13	LYS
2	O	14	GLU
2	O	18	LEU
2	O	21	LYS
2	O	30	LYS

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Mol	Chain	Res	Type
2	O	49	GLN
2	O	54	GLU
2	O	55	VAL
2	O	56	ASP
2	O	62	THR
2	O	64	ASP
2	O	65	PHE
2	O	67	GLU
2	O	69	LEU
2	O	76	MSE
2	O	94	LYS
2	O	97	ASN
2	O	109	MSE
2	O	117	THR
2	O	123	GLN
2	P	5	THR
2	P	13	LYS
2	P	14	GLU
2	P	18	LEU
2	P	21	LYS
2	P	30	LYS
2	P	49	GLN
2	P	54	GLU
2	P	55	VAL
2	P	56	ASP
2	P	64	ASP
2	P	65	PHE
2	P	67	GLU
2	P	69	LEU
2	P	76	MSE
2	P	94	LYS
2	P	97	ASN
2	P	109	MSE
2	P	117	THR
2	P	123	GLN
2	Q	5	THR
2	Q	13	LYS
2	Q	14	GLU
2	Q	18	LEU
2	Q	21	LYS
2	Q	30	LYS
2	Q	49	GLN

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Mol	Chain	Res	Type
2	Q	54	GLU
2	Q	55	VAL
2	Q	56	ASP
2	Q	62	THR
2	Q	64	ASP
2	Q	65	PHE
2	Q	67	GLU
2	Q	69	LEU
2	Q	76	MSE
2	Q	94	LYS
2	Q	97	ASN
2	Q	109	MSE
2	Q	117	THR
2	Q	123	GLN
2	R	5	THR
2	R	13	LYS
2	R	14	GLU
2	R	18	LEU
2	R	21	LYS
2	R	30	LYS
2	R	49	GLN
2	R	54	GLU
2	R	55	VAL
2	R	56	ASP
2	R	64	ASP
2	R	65	PHE
2	R	67	GLU
2	R	69	LEU
2	R	76	MSE
2	R	94	LYS
2	R	97	ASN
2	R	109	MSE
2	R	117	THR
2	R	123	GLN
2	S	5	THR
2	S	13	LYS
2	S	14	GLU
2	S	18	LEU
2	S	21	LYS
2	S	30	LYS
2	S	49	GLN
2	S	54	GLU

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Mol	Chain	Res	Type
2	S	55	VAL
2	S	56	ASP
2	S	62	THR
2	S	64	ASP
2	S	65	PHE
2	S	67	GLU
2	S	69	LEU
2	S	76	MSE
2	S	94	LYS
2	S	97	ASN
2	S	109	MSE
2	S	117	THR
2	S	123	GLN
2	T	5	THR
2	T	13	LYS
2	T	14	GLU
2	T	18	LEU
2	T	21	LYS
2	T	30	LYS
2	T	49	GLN
2	T	54	GLU
2	T	55	VAL
2	T	56	ASP
2	T	62	THR
2	T	64	ASP
2	T	65	PHE
2	T	67	GLU
2	T	69	LEU
2	T	76	MSE
2	T	94	LYS
2	T	97	ASN
2	T	109	MSE
2	T	117	THR
2	T	123	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (251) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	65	ASN
1	A	80	GLN
1	A	81	GLN
1	A	126	ASN

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Mol	Chain	Res	Type
1	A	129	ASN
1	A	165	GLN
1	A	212	GLN
1	A	269	ASN
1	A	323	ASN
1	A	349	ASN
1	A	351	HIS
1	A	368	GLN
1	A	377	GLN
1	A	387	ASN
1	A	438	ASN
1	A	451	ASN
1	A	480	ASN
1	A	507	GLN
1	A	510	GLN
1	A	518	ASN
1	A	551	ASN
1	A	553	GLN
1	A	576	ASN
1	A	581	GLN
1	A	618	ASN
1	A	629	ASN
1	A	639	ASN
1	A	655	ASN
1	A	666	ASN
1	A	730	ASN
1	A	747	ASN
1	A	750	GLN
1	A	758	ASN
1	A	761	GLN
1	A	767	GLN
1	A	770	ASN
1	A	781	ASN
1	A	794	GLN
1	B	64	ASN
1	B	80	GLN
1	B	81	GLN
1	B	126	ASN
1	B	129	ASN
1	B	165	GLN
1	B	212	GLN
1	B	269	ASN

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Mol	Chain	Res	Type
1	B	323	ASN
1	B	349	ASN
1	B	351	HIS
1	B	368	GLN
1	B	377	GLN
1	B	387	ASN
1	B	438	ASN
1	B	451	ASN
1	B	480	ASN
1	B	507	GLN
1	B	510	GLN
1	B	518	ASN
1	B	551	ASN
1	B	553	GLN
1	B	576	ASN
1	B	581	GLN
1	B	618	ASN
1	B	629	ASN
1	B	639	ASN
1	B	655	ASN
1	B	666	ASN
1	B	730	ASN
1	B	747	ASN
1	B	750	GLN
1	B	758	ASN
1	B	761	GLN
1	B	767	GLN
1	B	770	ASN
1	B	781	ASN
1	B	794	GLN
1	C	65	ASN
1	C	80	GLN
1	C	81	GLN
1	C	126	ASN
1	C	129	ASN
1	C	165	GLN
1	C	212	GLN
1	C	269	ASN
1	C	323	ASN
1	C	349	ASN
1	C	351	HIS
1	C	368	GLN

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Mol	Chain	Res	Type
1	C	377	GLN
1	C	387	ASN
1	C	438	ASN
1	C	451	ASN
1	C	480	ASN
1	C	507	GLN
1	C	510	GLN
1	C	518	ASN
1	C	551	ASN
1	C	553	GLN
1	C	576	ASN
1	C	577	HIS
1	C	581	GLN
1	C	618	ASN
1	C	629	ASN
1	C	639	ASN
1	C	655	ASN
1	C	666	ASN
1	C	730	ASN
1	C	747	ASN
1	C	750	GLN
1	C	758	ASN
1	C	761	GLN
1	C	767	GLN
1	C	770	ASN
1	C	781	ASN
1	C	785	ASN
1	C	794	GLN
1	D	64	ASN
1	D	65	ASN
1	D	80	GLN
1	D	81	GLN
1	D	126	ASN
1	D	129	ASN
1	D	165	GLN
1	D	212	GLN
1	D	269	ASN
1	D	323	ASN
1	D	349	ASN
1	D	351	HIS
1	D	368	GLN
1	D	377	GLN

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Mol	Chain	Res	Type
1	D	387	ASN
1	D	438	ASN
1	D	451	ASN
1	D	480	ASN
1	D	507	GLN
1	D	510	GLN
1	D	518	ASN
1	D	551	ASN
1	D	553	GLN
1	D	576	ASN
1	D	577	HIS
1	D	581	GLN
1	D	618	ASN
1	D	629	ASN
1	D	639	ASN
1	D	655	ASN
1	D	666	ASN
1	D	730	ASN
1	D	747	ASN
1	D	750	GLN
1	D	758	ASN
1	D	761	GLN
1	D	767	GLN
1	D	770	ASN
1	D	781	ASN
1	D	794	GLN
1	E	80	GLN
1	E	81	GLN
1	E	126	ASN
1	E	129	ASN
1	E	165	GLN
1	E	212	GLN
1	E	269	ASN
1	E	323	ASN
1	E	349	ASN
1	E	351	HIS
1	E	368	GLN
1	E	377	GLN
1	E	387	ASN
1	E	438	ASN
1	E	451	ASN
1	E	480	ASN

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Mol	Chain	Res	Type
1	E	507	GLN
1	E	510	GLN
1	E	518	ASN
1	E	551	ASN
1	E	553	GLN
1	E	576	ASN
1	E	577	HIS
1	E	581	GLN
1	E	618	ASN
1	E	629	ASN
1	E	639	ASN
1	E	655	ASN
1	E	666	ASN
1	E	730	ASN
1	E	747	ASN
1	E	750	GLN
1	E	758	ASN
1	E	767	GLN
1	E	770	ASN
1	E	781	ASN
1	E	794	GLN
1	F	64	ASN
1	F	80	GLN
1	F	81	GLN
1	F	126	ASN
1	F	129	ASN
1	F	165	GLN
1	F	212	GLN
1	F	269	ASN
1	F	323	ASN
1	F	349	ASN
1	F	351	HIS
1	F	368	GLN
1	F	377	GLN
1	F	387	ASN
1	F	438	ASN
1	F	451	ASN
1	F	480	ASN
1	F	507	GLN
1	F	510	GLN
1	F	518	ASN
1	F	551	ASN

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Mol	Chain	Res	Type
1	F	553	GLN
1	F	576	ASN
1	F	577	HIS
1	F	581	GLN
1	F	618	ASN
1	F	629	ASN
1	F	639	ASN
1	F	655	ASN
1	F	666	ASN
1	F	730	ASN
1	F	747	ASN
1	F	750	GLN
1	F	758	ASN
1	F	761	GLN
1	F	767	GLN
1	F	770	ASN
1	F	781	ASN
1	F	794	GLN
2	O	8	GLN
2	O	49	GLN
2	O	111	ASN
2	P	8	GLN
2	P	49	GLN
2	P	111	ASN
2	Q	8	GLN
2	Q	49	GLN
2	Q	111	ASN
2	R	8	GLN
2	R	49	GLN
2	R	111	ASN
2	S	8	GLN
2	S	42	ASN
2	S	49	GLN
2	S	111	ASN
2	T	8	GLN
2	T	49	GLN
2	T	111	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 30 ligands modelled in this entry, 30 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data [i](#)

6.1 Protein, DNA and RNA chains [i](#)

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	735/777 (94%)	-1.23	0 100 100	34, 87, 140, 151	0
1	B	735/777 (94%)	-1.24	0 100 100	35, 87, 141, 153	0
1	C	735/777 (94%)	-1.25	0 100 100	34, 87, 141, 153	0
1	D	735/777 (94%)	-1.25	0 100 100	35, 87, 140, 152	0
1	E	735/777 (94%)	-1.25	0 100 100	34, 87, 140, 153	0
1	F	735/777 (94%)	-1.24	0 100 100	34, 87, 140, 153	0
2	O	137/149 (91%)	-1.34	0 100 100	27, 74, 124, 135	0
2	P	137/149 (91%)	-1.38	0 100 100	28, 74, 124, 135	0
2	Q	137/149 (91%)	-1.37	0 100 100	29, 74, 124, 135	0
2	R	137/149 (91%)	-1.35	0 100 100	28, 74, 125, 135	0
2	S	137/149 (91%)	-1.33	0 100 100	29, 74, 125, 135	0
2	T	137/149 (91%)	-1.37	0 100 100	29, 73, 124, 135	0
All	All	5232/5556 (94%)	-1.26	0 100 100	27, 83, 140, 153	0

There are no RSRZ outliers to report.

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

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

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

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. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
3	MG	E	904	1/1	0.98	0.02	23,23,23,23	0
4	CA	R	708	1/1	0.98	0.07	85,85,85,85	0
4	CA	S	710	1/1	0.98	0.06	87,87,87,87	0
4	CA	T	712	1/1	0.98	0.06	85,85,85,85	0
4	CA	O	702	1/1	0.99	0.02	84,84,84,84	0
4	CA	P	703	1/1	0.99	0.01	88,88,88,88	0
4	CA	P	803	1/1	0.99	0.02	36,36,36,36	0
4	CA	Q	705	1/1	0.99	0.02	86,86,86,86	0
4	CA	Q	706	1/1	0.99	0.04	84,84,84,84	0
4	CA	R	707	1/1	0.99	0.02	85,85,85,85	0
3	MG	B	901	1/1	0.99	0.02	28,28,28,28	0
4	CA	S	709	1/1	0.99	0.02	83,83,83,83	0
3	MG	F	905	1/1	0.99	0.03	22,22,22,22	0
4	CA	T	711	1/1	0.99	0.02	84,84,84,84	0
4	CA	O	701	1/1	0.99	0.03	83,83,83,83	0
4	CA	O	801	1/1	1.00	0.01	36,36,36,36	0
4	CA	Q	805	1/1	1.00	0.02	38,38,38,38	0
4	CA	Q	806	1/1	1.00	0.01	46,46,46,46	0
4	CA	O	802	1/1	1.00	0.01	44,44,44,44	0
3	MG	C	902	1/1	1.00	0.01	23,23,23,23	0
4	CA	R	807	1/1	1.00	0.01	38,38,38,38	0
4	CA	R	808	1/1	1.00	0.01	44,44,44,44	0
4	CA	P	704	1/1	1.00	0.01	82,82,82,82	0
3	MG	D	903	1/1	1.00	0.01	27,27,27,27	0
4	CA	S	809	1/1	1.00	0.01	37,37,37,37	0
4	CA	S	810	1/1	1.00	0.01	44,44,44,44	0
4	CA	P	804	1/1	1.00	0.02	46,46,46,46	0
3	MG	A	900	1/1	1.00	0.01	28,28,28,28	0
4	CA	T	811	1/1	1.00	0.01	43,43,43,43	0
4	CA	T	812	1/1	1.00	0.01	48,48,48,48	0

6.5 Other polymers [i](#)

There are no such residues in this entry.