



Full wwPDB X-ray Structure Validation Report ⓘ

May 13, 2020 – 04:34 am BST

PDB ID : 1Y0V
Title : Crystal structure of anthrax edema factor (EF) in complex with calmodulin and pyrophosphate
Authors : Shen, Y.; Zhukovskaya, N.L.; Guo, Q.; Florian, J.; Tang, W.-J.
Deposited on : 2004-11-16
Resolution : 3.60 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 following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.11
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.11

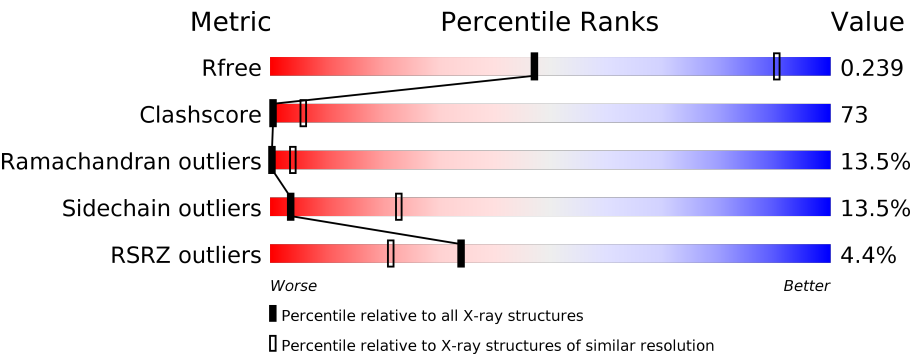
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.60 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}	130704	1257 (3.70-3.50)
Clashscore	141614	1353 (3.70-3.50)
Ramachandran outliers	138981	1307 (3.70-3.50)
Sidechain outliers	138945	1307 (3.70-3.50)
RSRZ outliers	127900	1161 (3.70-3.50)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria 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	<div><div>5%</div><div>20%56%17%5%</div></div>
1	B	777	<div><div>5%</div><div>19%57%17%5%</div></div>
1	C	777	<div><div>5%</div><div>19%57%17%5%</div></div>
1	D	777	<div><div>4%</div><div>19%57%17%5%</div></div>
1	E	777	<div><div>5%</div><div>20%56%17%5%</div></div>
1	F	777	<div><div>5%</div><div>19%57%16%5%</div></div>

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Mol	Chain	Length	Quality of chain
2	H	146	<div><div><div></div><div></div><div></div></div><div>%15%64%19%•</div></div>
2	I	146	<div><div><div></div><div></div><div></div></div><div>2%16%64%19%•</div></div>
2	J	146	<div><div><div></div><div></div><div></div></div><div>%16%64%18%•</div></div>
2	K	146	<div><div><div></div><div></div><div></div></div><div>%16%64%18%•</div></div>
2	L	146	<div><div><div></div><div></div><div></div></div><div>%15%66%18%•</div></div>
2	M	146	<div><div><div></div><div></div><div></div></div><div>3%16%64%19%•</div></div>

2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 42906 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	-	CLONING ARTIFACT	UNP P40136
A	25	HIS	-	CLONING ARTIFACT	UNP P40136
A	26	HIS	-	CLONING ARTIFACT	UNP P40136
A	27	HIS	-	CLONING ARTIFACT	UNP P40136
A	28	HIS	-	CLONING ARTIFACT	UNP P40136
A	29	HIS	-	CLONING ARTIFACT	UNP P40136
A	30	HIS	-	CLONING ARTIFACT	UNP P40136
A	31	ALA	-	CLONING ARTIFACT	UNP P40136
A	32	ALA	-	CLONING ARTIFACT	UNP P40136
B	24	MET	-	CLONING ARTIFACT	UNP P40136
B	25	HIS	-	CLONING ARTIFACT	UNP P40136
B	26	HIS	-	CLONING ARTIFACT	UNP P40136
B	27	HIS	-	CLONING ARTIFACT	UNP P40136
B	28	HIS	-	CLONING ARTIFACT	UNP P40136
B	29	HIS	-	CLONING ARTIFACT	UNP P40136
B	30	HIS	-	CLONING ARTIFACT	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	-	CLONING ARTIFACT	UNP P40136
C	25	HIS	-	CLONING ARTIFACT	UNP P40136
C	26	HIS	-	CLONING ARTIFACT	UNP P40136
C	27	HIS	-	CLONING ARTIFACT	UNP P40136
C	28	HIS	-	CLONING ARTIFACT	UNP P40136
C	29	HIS	-	CLONING ARTIFACT	UNP P40136
C	30	HIS	-	CLONING ARTIFACT	UNP P40136
C	31	ALA	-	CLONING ARTIFACT	UNP P40136
C	32	ALA	-	CLONING ARTIFACT	UNP P40136
D	24	MET	-	CLONING ARTIFACT	UNP P40136
D	25	HIS	-	CLONING ARTIFACT	UNP P40136
D	26	HIS	-	CLONING ARTIFACT	UNP P40136
D	27	HIS	-	CLONING ARTIFACT	UNP P40136
D	28	HIS	-	CLONING ARTIFACT	UNP P40136
D	29	HIS	-	CLONING ARTIFACT	UNP P40136
D	30	HIS	-	CLONING ARTIFACT	UNP P40136
D	31	ALA	-	CLONING ARTIFACT	UNP P40136
D	32	ALA	-	CLONING ARTIFACT	UNP P40136
E	24	MET	-	CLONING ARTIFACT	UNP P40136
E	25	HIS	-	CLONING ARTIFACT	UNP P40136
E	26	HIS	-	CLONING ARTIFACT	UNP P40136
E	27	HIS	-	CLONING ARTIFACT	UNP P40136
E	28	HIS	-	CLONING ARTIFACT	UNP P40136
E	29	HIS	-	CLONING ARTIFACT	UNP P40136
E	30	HIS	-	CLONING ARTIFACT	UNP P40136
E	31	ALA	-	CLONING ARTIFACT	UNP P40136
E	32	ALA	-	CLONING ARTIFACT	UNP P40136
F	24	MET	-	CLONING ARTIFACT	UNP P40136
F	25	HIS	-	CLONING ARTIFACT	UNP P40136
F	26	HIS	-	CLONING ARTIFACT	UNP P40136
F	27	HIS	-	CLONING ARTIFACT	UNP P40136
F	28	HIS	-	CLONING ARTIFACT	UNP P40136
F	29	HIS	-	CLONING ARTIFACT	UNP P40136
F	30	HIS	-	CLONING ARTIFACT	UNP P40136
F	31	ALA	-	CLONING ARTIFACT	UNP P40136
F	32	ALA	-	CLONING ARTIFACT	UNP P40136

- Molecule 2 is a protein called Calmodulin.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	H	146	Total	C	N	O	S	0	0	0
			1146	702	185	250	9			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	I	146	Total	C	N	O	S	0	0	0
			1146	702	185	250	9			
2	J	146	Total	C	N	O	S	0	0	0
			1146	702	185	250	9			
2	K	146	Total	C	N	O	S	0	0	0
			1146	702	185	250	9			
2	L	146	Total	C	N	O	S	0	0	0
			1146	702	185	250	9			
2	M	146	Total	C	N	O	S	0	0	0
			1146	702	185	250	9			

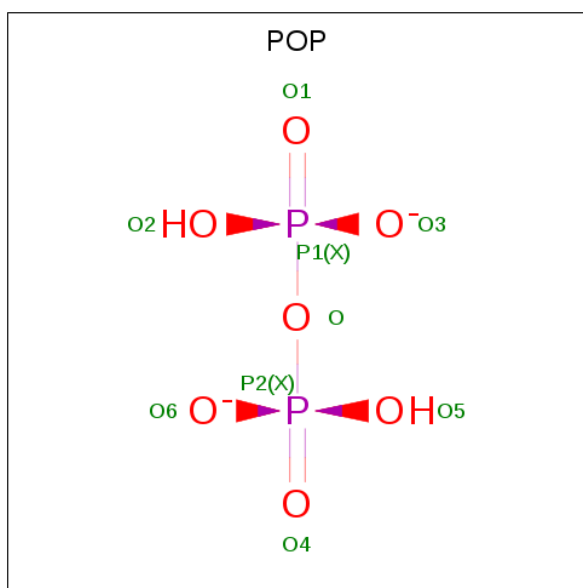
There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
H	3	ALA	-	CLONING ARTIFACT	UNP P62155
H	4	ALA	-	CLONING ARTIFACT	UNP P62155
I	3	ALA	-	CLONING ARTIFACT	UNP P62155
I	4	ALA	-	CLONING ARTIFACT	UNP P62155
J	3	ALA	-	CLONING ARTIFACT	UNP P62155
J	4	ALA	-	CLONING ARTIFACT	UNP P62155
K	3	ALA	-	CLONING ARTIFACT	UNP P62155
K	4	ALA	-	CLONING ARTIFACT	UNP P62155
L	3	ALA	-	CLONING ARTIFACT	UNP P62155
L	4	ALA	-	CLONING ARTIFACT	UNP P62155
M	3	ALA	-	CLONING ARTIFACT	UNP P62155
M	4	ALA	-	CLONING ARTIFACT	UNP P62155

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

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

- Molecule 4 is PYROPHOSPHATE 2- (three-letter code: POP) (formula: $\text{H}_2\text{O}_7\text{P}_2$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	O	P	0	0
			9	7	2		
4	B	1	Total	O	P	0	0
			9	7	2		
4	C	1	Total	O	P	0	0
			9	7	2		
4	D	1	Total	O	P	0	0
			9	7	2		
4	E	1	Total	O	P	0	0
			9	7	2		
4	F	1	Total	O	P	0	0
			9	7	2		

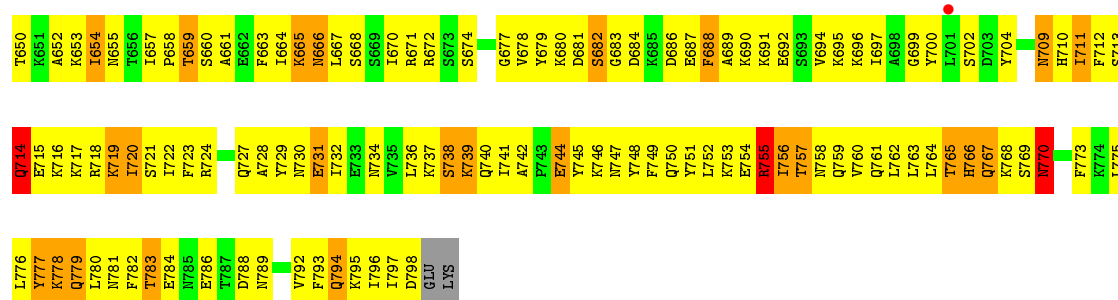
- Molecule 5 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	J	3	Total	Ca	0	0
			3	3		
5	K	3	Total	Ca	0	0
			3	3		
5	H	3	Total	Ca	0	0
			3	3		
5	I	3	Total	Ca	0	0
			3	3		
5	L	3	Total	Ca	0	0
			3	3		

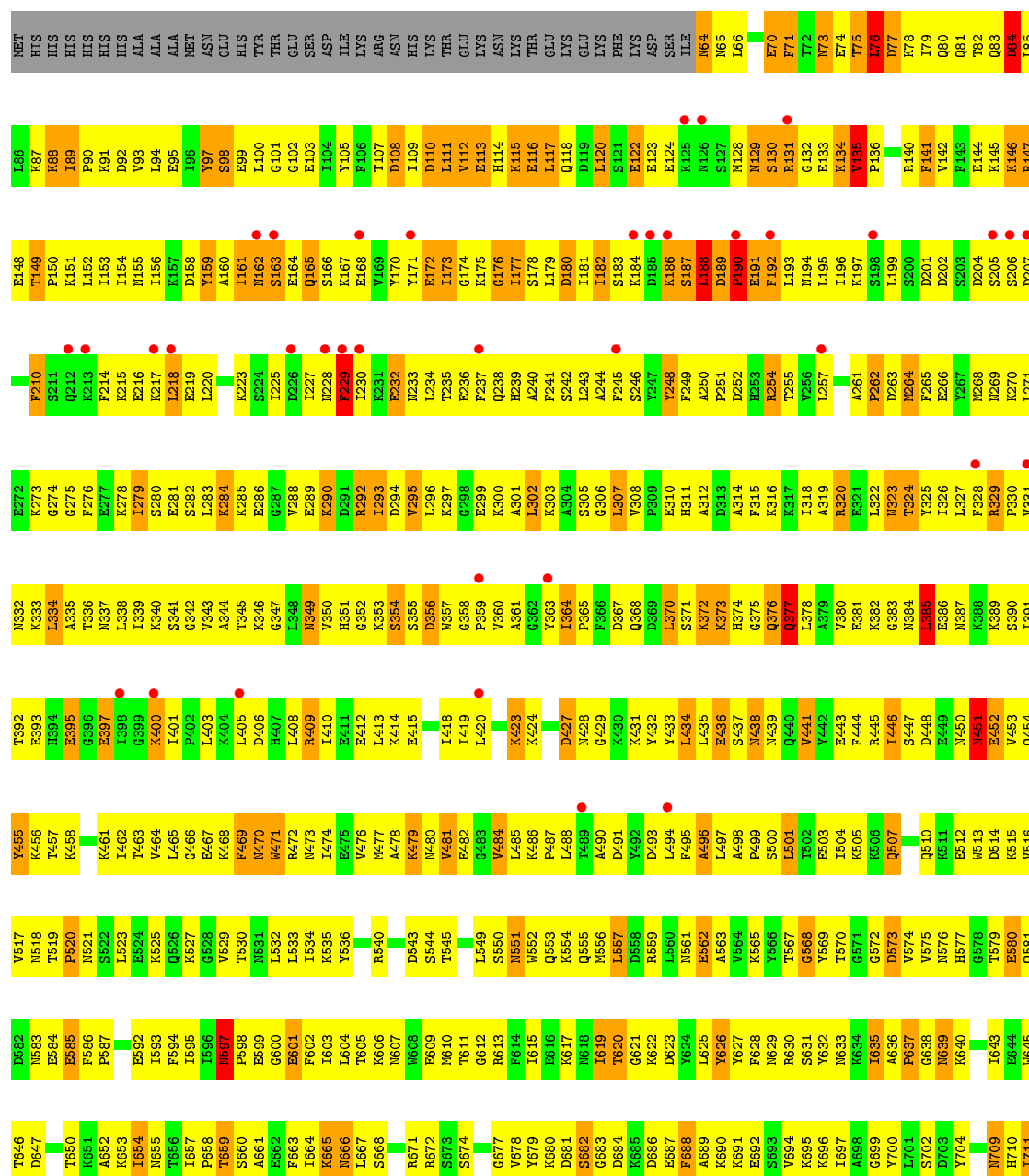
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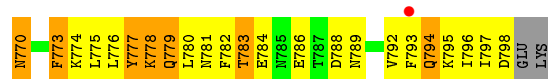
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	M	3	Total	Ca	0	0
			3	3		



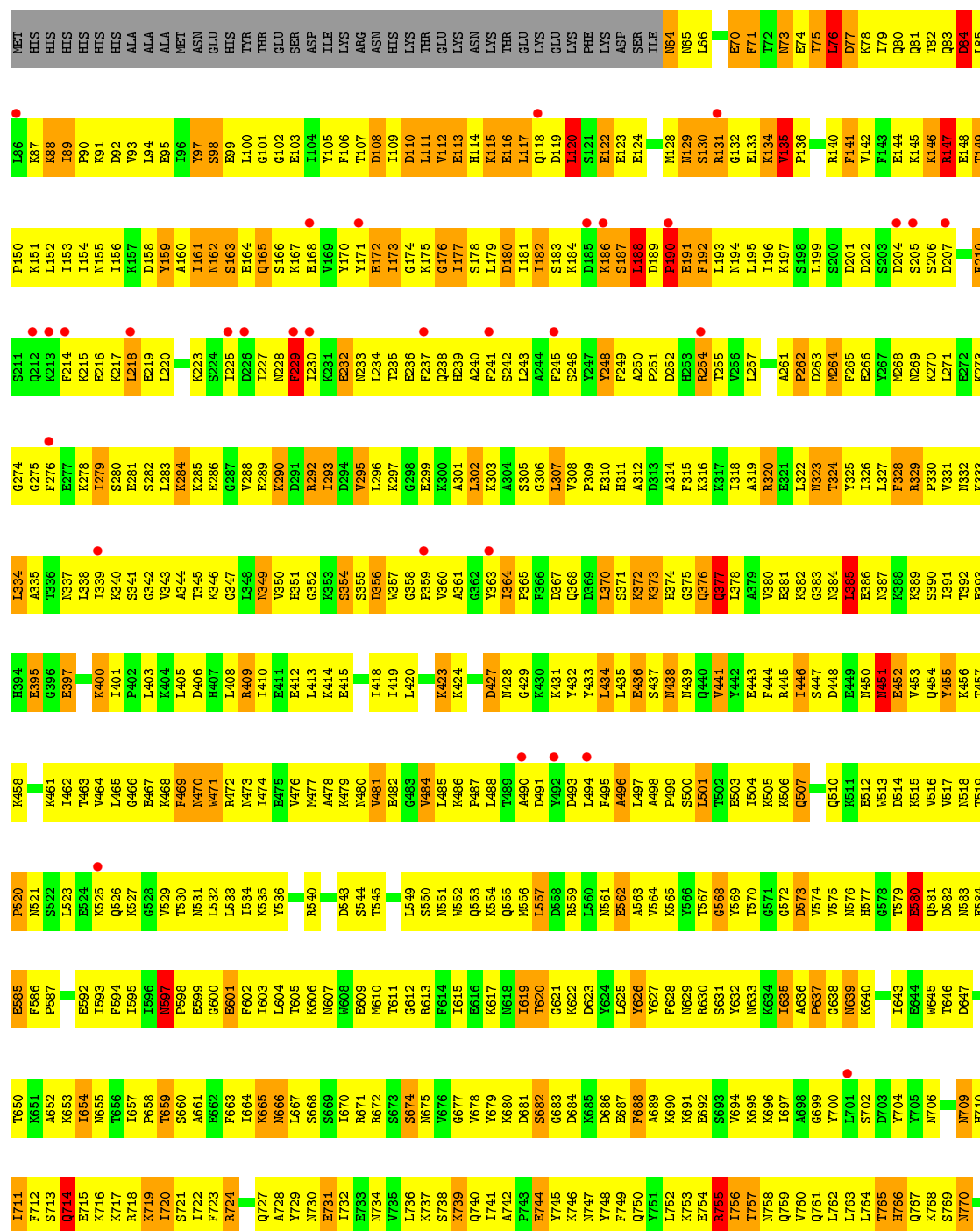
• Molecule 1: Calmodulin-sensitive adenylate cyclase

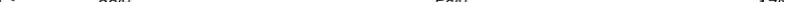






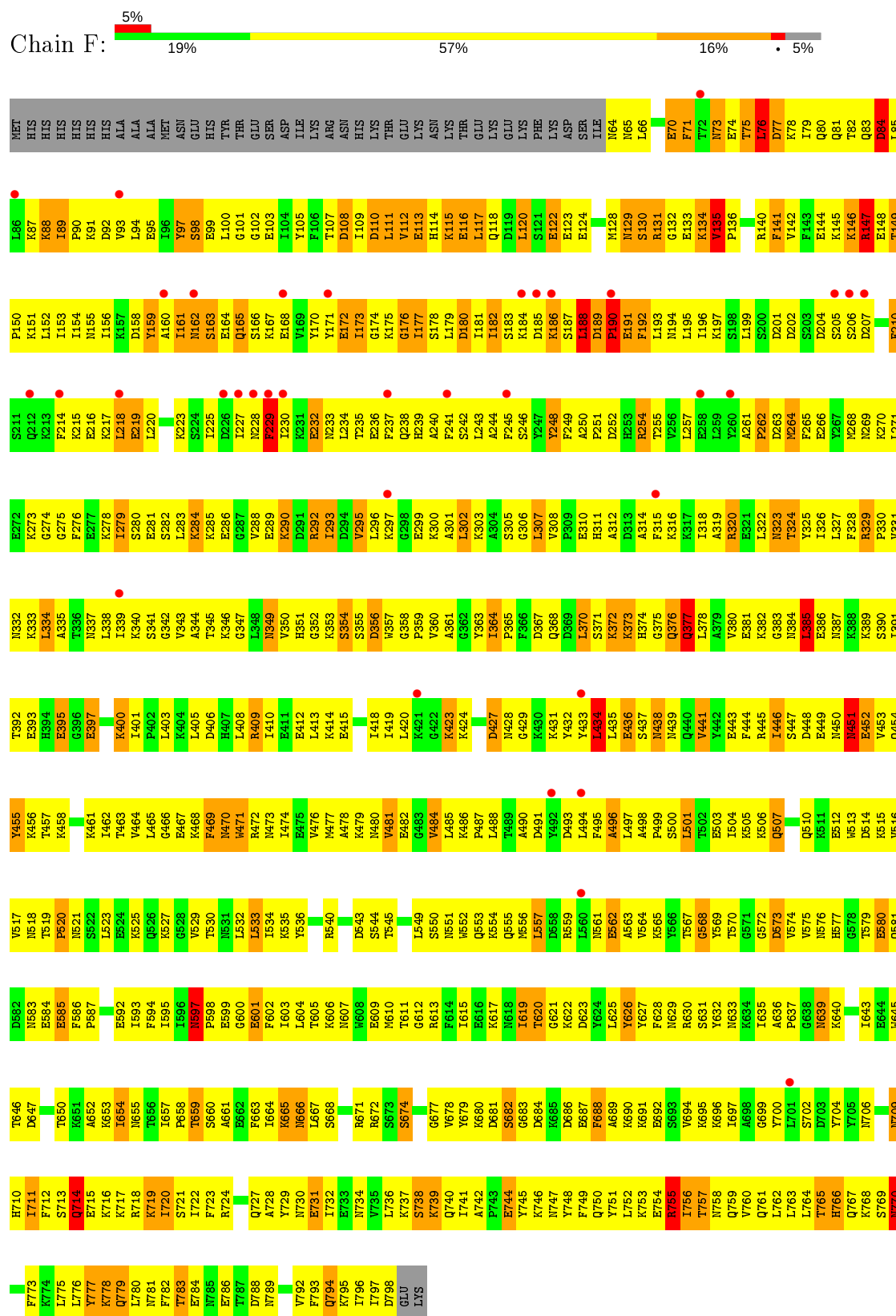
• Molecule 1: Calmodulin-sensitive adenylate cyclase



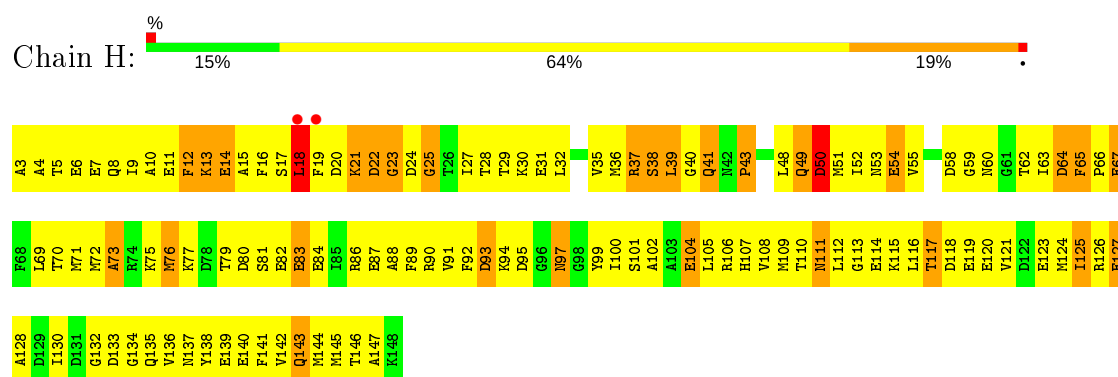
Chain E:  5% 20% 56% 17% 5%



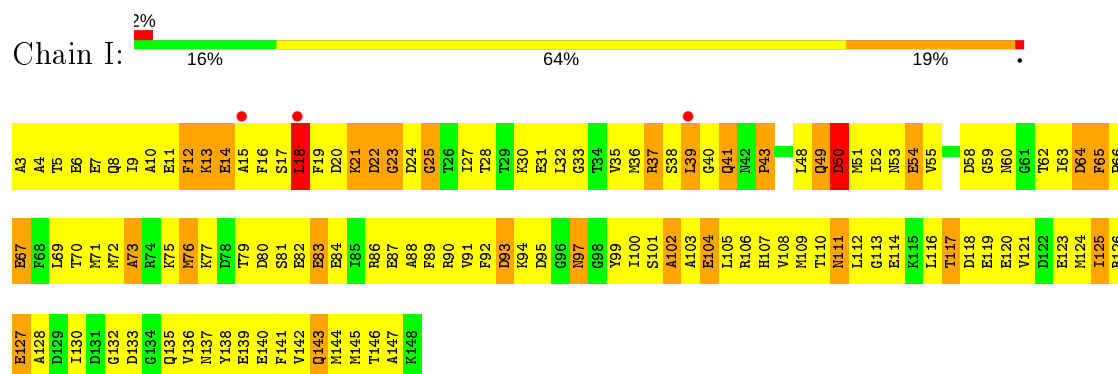
- Molecule 1: Calmodulin-sensitive adenylylate cyclase



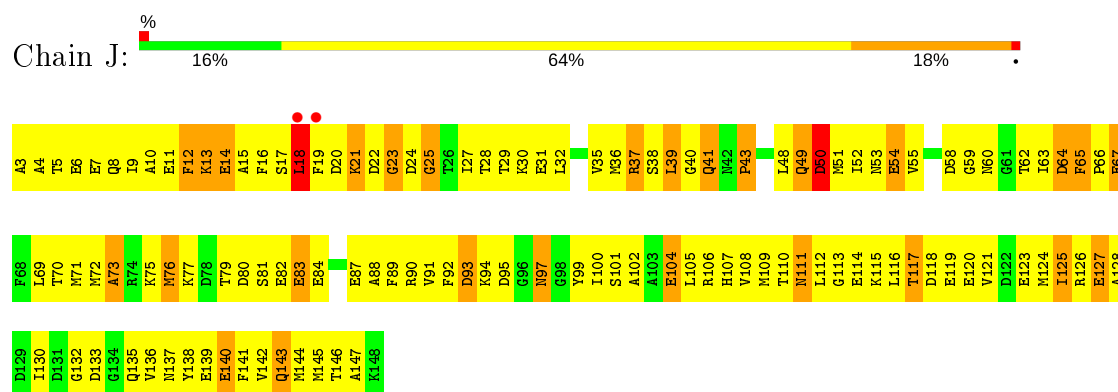
- Molecule 2: Calmodulin



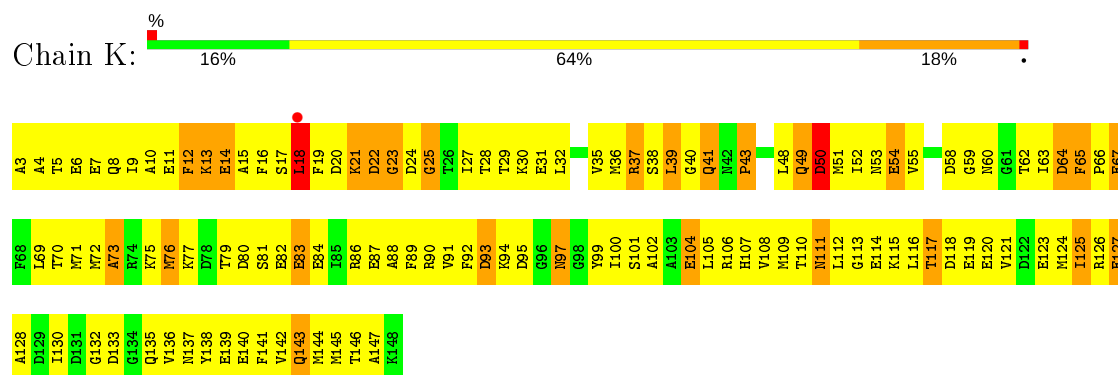
• Molecule 2: Calmodulin



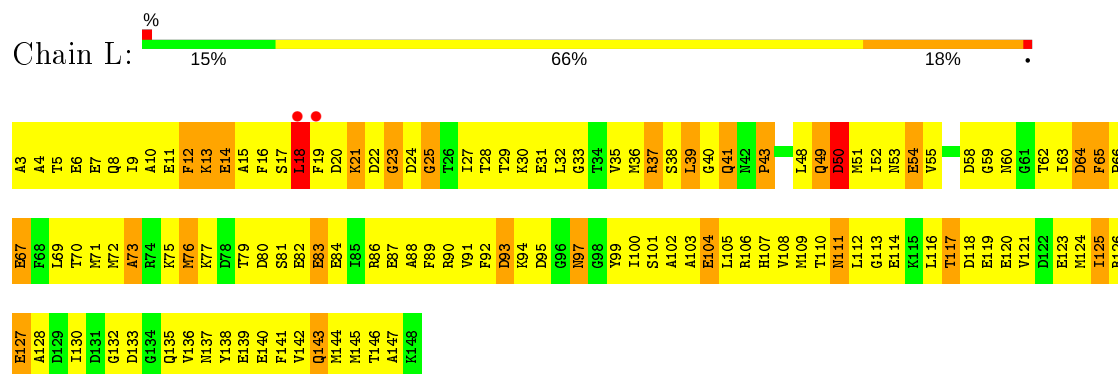
• Molecule 2: Calmodulin



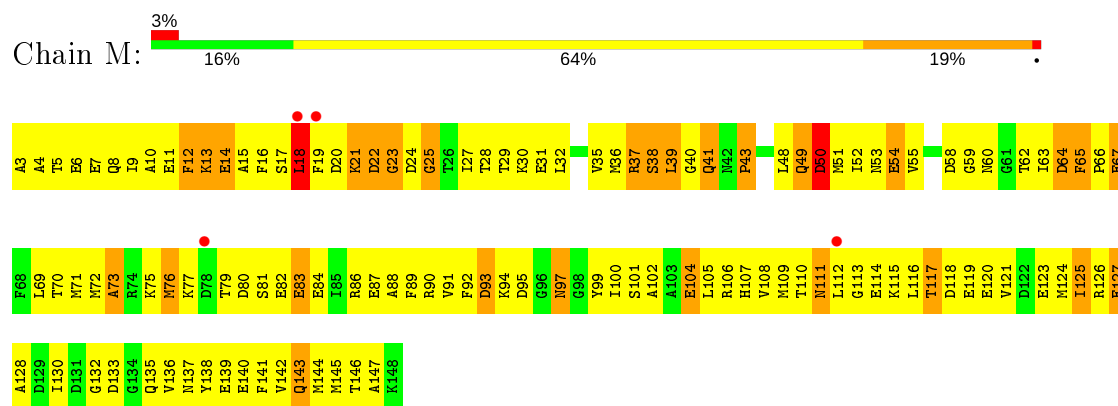
• Molecule 2: Calmodulin



• Molecule 2: Calmodulin



• Molecule 2: Calmodulin



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	317.51Å 183.35Å 141.81Å 90.00° 90.05° 90.00°	Depositor
Resolution (Å)	29.87 – 3.60 44.04 – 3.52	Depositor EDS
% Data completeness (in resolution range)	86.2 (29.87-3.60) 93.3 (44.04-3.52)	Depositor EDS
R_{merge}	0.05	Depositor
R_{sym}	0.06	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.99 (at 3.57Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.286 , 0.307 0.225 , 0.239	Depositor DCC
R_{free} test set	4714 reflections (4.82%)	wwPDB-VP
Wilson B-factor (Å ²)	119.9	Xtriage
Anisotropy	0.107	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 70.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.458 for -1/2*h+3/2*k,1/2*h+1/2*k,-l 0.458 for -1/2*h-3/2*k,-1/2*h+1/2*k,-l 0.450 for 1/2*h+3/2*k,1/2*h-1/2*k,-l 0.450 for 1/2*h-3/2*k,-1/2*h-1/2*k,-l 0.458 for -h,-k,l	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	42906	wwPDB-VP
Average B, all atoms (Å ²)	85.0	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

5.1 Standard geometry

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

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	0.57	4/6104 (0.1%)	0.80	19/8208 (0.2%)
1	B	0.52	2/6104 (0.0%)	0.77	11/8208 (0.1%)
1	C	0.52	1/6104 (0.0%)	0.78	14/8208 (0.2%)
1	D	0.52	1/6104 (0.0%)	0.78	10/8208 (0.1%)
1	E	0.52	1/6104 (0.0%)	0.77	12/8208 (0.1%)
1	F	0.52	0/6104	0.79	16/8208 (0.2%)
2	H	0.54	0/1158	0.72	0/1553
2	I	0.54	0/1158	0.71	0/1553
2	J	0.53	0/1158	0.71	0/1553
2	K	0.53	0/1158	0.71	0/1553
2	L	0.54	0/1158	0.72	0/1553
2	M	0.53	0/1158	0.72	0/1553
All	All	0.53	9/43572 (0.0%)	0.77	82/58566 (0.1%)

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

All (9) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	159	TYR	CA-CB	-13.07	1.25	1.53
1	A	159	TYR	CB-CG	-7.80	1.40	1.51
1	A	159	TYR	N-CA	7.25	1.60	1.46
1	E	159	TYR	CB-CG	-6.22	1.42	1.51
1	D	159	TYR	CB-CG	-5.77	1.43	1.51
1	B	767	GLN	CG-CD	5.73	1.64	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	159	TYR	CB-CG	-5.70	1.43	1.51
1	C	159	TYR	CB-CG	-5.49	1.43	1.51
1	A	190	PRO	CA-C	5.30	1.63	1.52

All (82) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	188	LEU	C-N-CA	-10.45	95.58	121.70
1	C	159	TYR	N-CA-C	10.02	138.04	111.00
1	F	159	TYR	N-CA-C	10.01	138.03	111.00
1	E	159	TYR	N-CA-C	9.74	137.31	111.00
1	F	433	TYR	C-N-CA	-9.48	98.00	121.70
1	B	159	TYR	N-CA-C	9.46	136.53	111.00
1	A	188	LEU	C-N-CA	-9.34	98.35	121.70
1	A	159	TYR	CB-CA-C	-9.24	91.93	110.40
1	E	188	LEU	C-N-CA	-8.99	99.21	121.70
1	C	159	TYR	CB-CA-C	-8.78	92.84	110.40
1	D	159	TYR	N-CA-C	8.78	134.69	111.00
1	F	159	TYR	CB-CA-C	-8.69	93.01	110.40
1	A	147	ARG	N-CA-C	8.57	134.15	111.00
1	C	147	ARG	N-CA-C	8.38	133.63	111.00
1	B	147	ARG	N-CA-C	8.38	133.61	111.00
1	F	147	ARG	N-CA-C	8.27	133.34	111.00
1	B	159	TYR	CB-CA-C	-8.23	93.94	110.40
1	A	433	TYR	C-N-CA	-8.20	101.20	121.70
1	D	188	LEU	C-N-CA	-8.11	101.43	121.70
1	E	147	ARG	N-CA-C	7.98	132.56	111.00
1	D	147	ARG	N-CA-C	7.90	132.32	111.00
1	D	159	TYR	CB-CA-C	-7.80	94.80	110.40
1	C	188	LEU	C-N-CA	-7.50	102.94	121.70
1	A	158	ASP	O-C-N	-7.43	110.81	122.70
1	E	674	SER	N-CA-C	-7.33	91.21	111.00
1	B	188	LEU	C-N-CA	-7.24	103.60	121.70
1	D	674	SER	N-CA-C	-7.23	91.47	111.00
1	E	159	TYR	CB-CA-C	-7.16	96.08	110.40
1	C	188	LEU	N-CA-C	-6.99	92.13	111.00
1	A	188	LEU	N-CA-C	-6.97	92.19	111.00
1	F	674	SER	N-CA-C	-6.96	92.20	111.00
1	E	188	LEU	N-CA-C	-6.89	92.40	111.00
1	B	188	LEU	N-CA-C	-6.88	92.44	111.00
1	D	188	LEU	N-CA-C	-6.83	92.55	111.00
1	F	188	LEU	N-CA-C	-6.78	92.70	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	190	PRO	CA-N-CD	-6.77	102.03	111.50
1	A	159	TYR	N-CA-CB	-6.63	98.67	110.60
1	F	188	LEU	O-C-N	-6.52	112.27	122.70
1	F	190	PRO	CA-N-CD	-6.49	102.42	111.50
1	C	674	SER	N-CA-C	-6.40	93.73	111.00
1	B	433	TYR	C-N-CA	-6.37	105.78	121.70
1	A	674	SER	N-CA-C	-6.35	93.86	111.00
1	B	674	SER	N-CA-C	-6.29	94.01	111.00
1	F	434	LEU	CB-CA-C	6.14	121.87	110.20
1	A	159	TYR	N-CA-C	6.06	127.35	111.00
1	F	434	LEU	CA-CB-CG	6.05	129.21	115.30
1	F	188	LEU	CA-C-N	5.87	130.12	117.20
1	A	159	TYR	CB-CG-CD2	-5.84	117.50	121.00
1	A	434	LEU	CB-CA-C	5.77	121.17	110.20
1	B	433	TYR	N-CA-C	-5.73	95.53	111.00
1	D	188	LEU	O-C-N	-5.68	113.60	122.70
1	D	188	LEU	CA-C-N	5.67	129.67	117.20
1	A	188	LEU	O-C-N	-5.65	113.65	122.70
1	C	434	LEU	CB-CA-C	5.57	120.79	110.20
1	C	188	LEU	CA-C-N	5.57	129.44	117.20
1	E	190	PRO	CA-N-CD	-5.57	103.71	111.50
1	A	158	ASP	CA-C-N	5.54	129.38	117.20
1	B	120	LEU	CA-CB-CG	5.51	127.97	115.30
1	C	188	LEU	O-C-N	-5.49	113.91	122.70
1	C	120	LEU	CA-CB-CG	5.48	127.91	115.30
1	C	434	LEU	CA-CB-CG	5.46	127.85	115.30
1	E	433	TYR	N-CA-C	-5.42	96.35	111.00
1	A	120	LEU	CA-CB-CG	5.42	127.76	115.30
1	E	120	LEU	CA-CB-CG	5.42	127.76	115.30
1	D	120	LEU	CA-CB-CG	5.41	127.74	115.30
1	B	188	LEU	CA-C-N	5.38	129.03	117.20
1	F	120	LEU	CA-CB-CG	5.37	127.66	115.30
1	B	188	LEU	O-C-N	-5.32	114.18	122.70
1	E	188	LEU	O-C-N	-5.32	114.20	122.70
1	A	433	TYR	N-CA-C	-5.24	96.84	111.00
1	F	433	TYR	O-C-N	-5.20	114.38	122.70
1	A	188	LEU	CA-C-N	5.18	128.59	117.20
1	C	433	TYR	N-CA-C	-5.16	97.06	111.00
1	D	433	TYR	N-CA-C	-5.11	97.20	111.00
1	C	533	LEU	CA-CB-CG	5.08	126.98	115.30
1	E	433	TYR	C-N-CA	-5.06	109.05	121.70
1	E	219	GLU	N-CA-C	-5.05	97.37	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	433	TYR	O-C-N	-5.04	114.63	122.70
1	A	219	GLU	N-CA-C	-5.04	97.40	111.00
1	F	533	LEU	CA-CB-CG	5.03	126.88	115.30
1	C	219	GLU	N-CA-C	-5.03	97.42	111.00
1	F	219	GLU	N-CA-C	-5.02	97.45	111.00

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	158	ASP	Peptide

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	5992	0	6010	891	0
1	B	5992	0	6010	886	0
1	C	5992	0	6010	882	0
1	D	5992	0	6010	880	0
1	E	5992	0	6010	872	0
1	F	5992	0	6010	882	0
2	H	1146	0	1075	194	0
2	I	1146	0	1075	189	0
2	J	1146	0	1075	194	0
2	K	1146	0	1075	198	0
2	L	1146	0	1075	190	0
2	M	1146	0	1075	193	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	A	9	0	0	0	0
4	B	9	0	0	0	0
4	C	9	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	D	9	0	0	0	0
4	E	9	0	0	0	0
4	F	9	0	0	0	0
5	H	3	0	0	0	0
5	I	3	0	0	0	0
5	J	3	0	0	0	0
5	K	3	0	0	0	0
5	L	3	0	0	0	0
5	M	3	0	0	0	0
All	All	42906	0	42510	6245	0

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 73.

All (6245) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:697:ILE:HD13	1:B:732:ILE:HD13	1.21	1.20
1:A:697:ILE:HD13	1:A:732:ILE:HD13	1.23	1.16
1:E:697:ILE:HD13	1:E:732:ILE:HD13	1.22	1.14
1:B:188:LEU:HD23	1:B:188:LEU:H	0.97	1.11
1:A:533:LEU:HD23	2:H:112:LEU:HD21	1.32	1.11
1:D:697:ILE:HD13	1:D:732:ILE:HD13	1.22	1.11
1:D:188:LEU:H	1:D:188:LEU:HD23	1.05	1.10
1:F:697:ILE:HD13	1:F:732:ILE:HD13	1.22	1.10
1:E:533:LEU:HD23	2:L:112:LEU:HD21	1.34	1.10
1:C:697:ILE:HD13	1:C:732:ILE:HD13	1.23	1.09
1:F:188:LEU:HD23	1:F:188:LEU:H	0.98	1.09
1:F:533:LEU:HD23	2:M:112:LEU:HD21	1.32	1.09
1:D:122:GLU:HG3	1:D:147:ARG:HB2	1.35	1.09
1:E:188:LEU:H	1:E:188:LEU:HD23	0.97	1.08
1:B:533:LEU:HD23	2:I:112:LEU:HD21	1.34	1.08
1:A:188:LEU:HD23	1:A:188:LEU:H	0.97	1.08
1:E:105:TYR:HB2	1:E:153:ILE:HG12	1.36	1.08
1:A:105:TYR:HB2	1:A:153:ILE:HG12	1.36	1.07
1:D:533:LEU:HD23	2:K:112:LEU:HD21	1.31	1.07
1:B:105:TYR:HB2	1:B:153:ILE:HG12	1.36	1.07
1:C:327:LEU:HG	1:C:595:ILE:HG12	1.36	1.06
1:F:105:TYR:HB2	1:F:153:ILE:HG12	1.36	1.06
1:D:479:LYS:HG2	1:D:488:LEU:HD21	1.37	1.05
1:E:715:GLU:HG3	1:E:767:GLN:NE2	1.70	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:533:LEU:HD23	2:J:112:LEU:HD21	1.32	1.05
1:C:123:GLU:HG2	1:C:124:GLU:H	1.22	1.05
1:C:479:LYS:HG2	1:C:488:LEU:HD21	1.38	1.05
1:F:479:LYS:HG2	1:F:488:LEU:HD21	1.37	1.05
1:E:122:GLU:HG3	1:E:147:ARG:HB2	1.36	1.05
1:B:327:LEU:HG	1:B:595:ILE:HG12	1.37	1.05
1:C:188:LEU:HD23	1:C:188:LEU:H	0.92	1.04
1:D:105:TYR:HB2	1:D:153:ILE:HG12	1.36	1.04
2:J:100:ILE:HB	2:J:136:VAL:HG23	1.39	1.04
1:B:123:GLU:HG2	1:B:124:GLU:H	1.22	1.04
1:B:188:LEU:CD2	1:B:188:LEU:H	1.70	1.04
1:C:715:GLU:HA	1:C:718:ARG:NH1	1.72	1.04
1:C:105:TYR:HB2	1:C:153:ILE:HG12	1.35	1.03
1:A:123:GLU:HG2	1:A:124:GLU:H	1.22	1.03
1:E:123:GLU:HG2	1:E:124:GLU:H	1.22	1.03
1:E:715:GLU:HA	1:E:718:ARG:NH1	1.74	1.03
1:F:715:GLU:HA	1:F:718:ARG:NH1	1.73	1.03
1:A:479:LYS:HG2	1:A:488:LEU:HD21	1.38	1.03
1:B:715:GLU:HA	1:B:718:ARG:NH1	1.74	1.03
1:F:122:GLU:HG3	1:F:147:ARG:HB2	1.38	1.02
1:D:123:GLU:HG2	1:D:124:GLU:H	1.22	1.02
1:D:715:GLU:HA	1:D:718:ARG:NH1	1.74	1.02
2:L:100:ILE:HB	2:L:136:VAL:HG23	1.39	1.02
1:C:639:ASN:HD22	1:C:639:ASN:N	1.57	1.02
1:A:715:GLU:HA	1:A:718:ARG:NH1	1.74	1.02
1:F:639:ASN:HD22	1:F:639:ASN:N	1.57	1.02
2:L:63:ILE:HG13	2:L:67:GLU:HB3	1.40	1.02
1:B:479:LYS:HG2	1:B:488:LEU:HD21	1.38	1.02
2:J:63:ILE:HG13	2:J:67:GLU:HB3	1.41	1.02
1:E:327:LEU:HG	1:E:595:ILE:HG12	1.38	1.01
1:D:639:ASN:N	1:D:639:ASN:HD22	1.57	1.01
2:K:63:ILE:HG13	2:K:67:GLU:HB3	1.41	1.01
1:E:479:LYS:HG2	1:E:488:LEU:HD21	1.37	1.01
2:M:100:ILE:HB	2:M:136:VAL:HG23	1.39	1.01
1:D:327:LEU:HG	1:D:595:ILE:HG12	1.38	1.01
1:E:639:ASN:HD22	1:E:639:ASN:N	1.57	1.01
1:C:188:LEU:CD2	1:C:188:LEU:H	1.72	1.00
1:F:123:GLU:HG2	1:F:124:GLU:H	1.23	1.00
1:A:327:LEU:HG	1:A:595:ILE:HG12	1.39	1.00
2:H:100:ILE:HB	2:H:136:VAL:HG23	1.39	1.00
1:B:635:ILE:HD12	1:B:635:ILE:H	1.25	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:100:ILE:HB	2:I:136:VAL:HG23	1.39	1.00
1:B:122:GLU:HG3	1:B:147:ARG:HB2	1.44	1.00
1:C:122:GLU:HG3	1:C:147:ARG:HB2	1.43	1.00
1:A:639:ASN:HD22	1:A:639:ASN:N	1.57	1.00
1:C:188:LEU:HD23	1:C:188:LEU:N	1.77	1.00
1:A:188:LEU:CD2	1:A:188:LEU:H	1.75	0.99
1:E:722:ILE:HG23	1:E:760:VAL:HG13	1.44	0.99
1:F:327:LEU:HG	1:F:595:ILE:HG12	1.38	0.99
2:M:63:ILE:HG13	2:M:67:GLU:HB3	1.41	0.99
2:H:63:ILE:HG13	2:H:67:GLU:HB3	1.39	0.99
1:B:722:ILE:HG23	1:B:760:VAL:HG13	1.45	0.99
2:I:63:ILE:HG13	2:I:67:GLU:HB3	1.41	0.99
1:B:497:LEU:HD13	1:B:556:MET:HG2	1.45	0.98
1:B:639:ASN:HD22	1:B:639:ASN:N	1.57	0.98
2:K:100:ILE:HB	2:K:136:VAL:HG23	1.40	0.98
1:A:122:GLU:HG3	1:A:147:ARG:HB2	1.45	0.98
1:F:173:ILE:HG13	1:F:242:SER:HB3	1.46	0.97
1:D:186:LYS:HA	1:D:190:PRO:HD3	1.45	0.97
1:E:189:ASP:O	1:E:191:GLU:N	1.97	0.97
1:A:722:ILE:HG23	1:A:760:VAL:HG13	1.45	0.97
1:D:189:ASP:O	1:D:191:GLU:N	1.97	0.97
1:E:497:LEU:HD13	1:E:556:MET:HG2	1.45	0.97
1:E:715:GLU:HG3	1:E:767:GLN:HE21	1.29	0.97
1:C:497:LEU:HD13	1:C:556:MET:HG2	1.46	0.97
1:D:722:ILE:HG23	1:D:760:VAL:HG13	1.45	0.97
1:C:722:ILE:HG23	1:C:760:VAL:HG13	1.44	0.97
1:F:497:LEU:HD13	1:F:556:MET:HG2	1.46	0.97
1:B:715:GLU:HG3	1:B:767:GLN:NE2	1.80	0.96
1:A:115:LYS:HZ3	1:A:116:GLU:HG2	1.30	0.96
1:D:66:LEU:HD22	1:D:98:SER:HB3	1.47	0.96
1:B:66:LEU:HD22	1:B:98:SER:HB3	1.46	0.96
1:E:188:LEU:N	1:E:188:LEU:HD23	1.81	0.96
1:B:188:LEU:HD23	1:B:188:LEU:N	1.79	0.96
1:C:173:ILE:HG13	1:C:242:SER:HB3	1.47	0.96
1:E:188:LEU:H	1:E:188:LEU:CD2	1.79	0.96
1:E:173:ILE:HG13	1:E:242:SER:HB3	1.46	0.95
1:B:173:ILE:HG13	1:B:242:SER:HB3	1.47	0.95
1:C:318:ILE:HD12	1:C:318:ILE:H	1.31	0.95
1:A:66:LEU:HD22	1:A:98:SER:HB3	1.47	0.95
1:F:188:LEU:HD23	1:F:188:LEU:N	1.82	0.95
1:A:154:ILE:HG13	1:A:171:TYR:CE1	2.02	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:722:ILE:HG23	1:F:760:VAL:HG13	1.44	0.94
1:F:66:LEU:HD22	1:F:98:SER:HB3	1.47	0.94
1:E:115:LYS:HZ3	1:E:116:GLU:HG2	1.32	0.94
1:A:173:ILE:HG13	1:A:242:SER:HB3	1.47	0.94
1:D:497:LEU:HD13	1:D:556:MET:HG2	1.46	0.94
1:F:154:ILE:HG13	1:F:171:TYR:CE1	2.03	0.94
1:B:154:ILE:HG13	1:B:171:TYR:CE1	2.03	0.94
1:A:188:LEU:HD23	1:A:188:LEU:N	1.80	0.94
1:B:318:ILE:H	1:B:318:ILE:HD12	1.31	0.94
1:C:635:ILE:HD12	1:C:635:ILE:H	1.32	0.94
1:E:186:LYS:HA	1:E:190:PRO:HD3	1.45	0.94
1:F:89:ILE:HD13	1:F:175:LYS:HE2	1.49	0.94
1:F:115:LYS:HZ3	1:F:116:GLU:N	1.66	0.93
1:F:318:ILE:H	1:F:318:ILE:HD12	1.33	0.93
1:B:697:ILE:HD13	1:B:732:ILE:CD1	1.98	0.93
1:C:89:ILE:HD13	1:C:175:LYS:HE2	1.49	0.93
1:E:66:LEU:HD22	1:E:98:SER:HB3	1.47	0.93
1:C:154:ILE:HG13	1:C:171:TYR:CE1	2.03	0.93
1:E:154:ILE:HG13	1:E:171:TYR:CE1	2.02	0.93
1:D:154:ILE:HG13	1:D:171:TYR:CE1	2.03	0.93
1:D:173:ILE:HG13	1:D:242:SER:HB3	1.46	0.93
1:A:186:LYS:HA	1:A:190:PRO:HD3	1.49	0.93
1:A:497:LEU:HD13	1:A:556:MET:HG2	1.47	0.93
1:F:188:LEU:H	1:F:188:LEU:CD2	1.81	0.93
1:C:66:LEU:HD22	1:C:98:SER:HB3	1.48	0.92
1:B:115:LYS:HZ3	1:B:116:GLU:HG2	1.35	0.92
1:B:89:ILE:HD13	1:B:175:LYS:HE2	1.50	0.92
1:E:89:ILE:HD13	1:E:175:LYS:HE2	1.49	0.92
1:D:697:ILE:HD13	1:D:732:ILE:CD1	2.00	0.92
1:F:697:ILE:HD13	1:F:732:ILE:CD1	2.00	0.92
2:M:58:ASP:HB3	2:M:62:THR:HG23	1.52	0.92
1:A:318:ILE:H	1:A:318:ILE:HD12	1.33	0.92
1:E:318:ILE:H	1:E:318:ILE:HD12	1.32	0.92
1:E:697:ILE:HD13	1:E:732:ILE:CD1	2.00	0.92
1:A:697:ILE:HD13	1:A:732:ILE:CD1	2.00	0.92
1:D:89:ILE:HD13	1:D:175:LYS:HE2	1.50	0.91
1:D:737:LYS:HA	1:D:737:LYS:HE2	1.52	0.91
2:J:58:ASP:HB3	2:J:62:THR:HG23	1.52	0.91
1:A:89:ILE:HD13	1:A:175:LYS:HE2	1.50	0.91
1:C:697:ILE:HD13	1:C:732:ILE:CD1	2.00	0.91
1:C:737:LYS:HE2	1:C:737:LYS:HA	1.52	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:115:LYS:HZ3	1:C:116:GLU:HG2	1.34	0.91
1:D:115:LYS:HZ1	1:D:116:GLU:HG2	1.34	0.91
1:A:567:THR:HG23	1:A:568:GLY:H	1.37	0.90
1:D:567:THR:HG23	1:D:568:GLY:H	1.36	0.90
1:E:567:THR:HG23	1:E:568:GLY:H	1.36	0.90
2:L:58:ASP:HB3	2:L:62:THR:HG23	1.52	0.90
1:D:318:ILE:HD12	1:D:318:ILE:H	1.32	0.90
1:D:115:LYS:NZ	1:D:116:GLU:HG2	1.86	0.90
1:E:115:LYS:NZ	1:E:116:GLU:HG2	1.87	0.90
2:L:36:MET:HE3	2:L:43:PRO:HG3	1.51	0.90
1:A:115:LYS:NZ	1:A:116:GLU:HG2	1.87	0.90
1:A:737:LYS:HA	1:A:737:LYS:HE2	1.53	0.90
1:B:115:LYS:NZ	1:B:116:GLU:HG2	1.87	0.90
1:C:567:THR:HG23	1:C:568:GLY:H	1.36	0.90
1:F:737:LYS:HA	1:F:737:LYS:HE2	1.53	0.90
1:A:89:ILE:HG22	1:A:93:VAL:HG11	1.54	0.90
1:A:184:LYS:HE2	1:A:193:LEU:HD12	1.54	0.90
1:E:434:LEU:HD12	1:E:434:LEU:C	1.93	0.90
1:F:567:THR:HG23	1:F:568:GLY:H	1.36	0.89
1:B:184:LYS:HE2	1:B:193:LEU:HD12	1.54	0.89
1:B:248:TYR:HD1	1:B:268:MET:HB2	1.37	0.89
1:F:184:LYS:HE2	1:F:193:LEU:HD12	1.55	0.89
2:K:58:ASP:HB3	2:K:62:THR:HG23	1.52	0.89
1:B:567:THR:HG23	1:B:568:GLY:H	1.37	0.89
1:B:89:ILE:HG22	1:B:93:VAL:HG11	1.55	0.89
1:A:248:TYR:HD1	1:A:268:MET:HB2	1.37	0.89
1:F:115:LYS:NZ	1:F:116:GLU:HG2	1.87	0.89
1:F:456:LYS:HB3	1:F:471:TRP:H	1.36	0.89
1:A:456:LYS:HB3	1:A:471:TRP:H	1.37	0.89
1:A:567:THR:HG23	1:A:568:GLY:N	1.88	0.89
1:D:254:ARG:HH11	1:D:254:ARG:HB3	1.38	0.89
1:D:456:LYS:HB3	1:D:471:TRP:H	1.38	0.89
2:H:58:ASP:HB3	2:H:62:THR:HG23	1.52	0.89
2:I:58:ASP:HB3	2:I:62:THR:HG23	1.52	0.89
1:B:737:LYS:HE2	1:B:737:LYS:HA	1.52	0.89
1:B:354:SER:O	1:B:371:SER:HB2	1.73	0.89
1:C:115:LYS:NZ	1:C:116:GLU:HG2	1.87	0.89
1:C:184:LYS:HE2	1:C:193:LEU:HD12	1.54	0.89
1:B:567:THR:HG23	1:B:568:GLY:N	1.88	0.89
1:D:184:LYS:HE2	1:D:193:LEU:HD12	1.55	0.89
1:B:456:LYS:HB3	1:B:471:TRP:H	1.37	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:89:ILE:HG22	1:D:93:VAL:HG11	1.55	0.88
1:E:184:LYS:HE2	1:E:193:LEU:HD12	1.55	0.88
1:E:254:ARG:HH11	1:E:254:ARG:HB3	1.38	0.88
1:C:456:LYS:HB3	1:C:471:TRP:H	1.37	0.88
1:D:188:LEU:H	1:D:188:LEU:CD2	1.84	0.88
1:A:434:LEU:HD13	1:A:435:LEU:N	1.88	0.88
1:B:462:ILE:HG12	1:B:463:THR:H	1.38	0.88
1:D:462:ILE:HG12	1:D:463:THR:H	1.38	0.88
1:D:567:THR:HG23	1:D:568:GLY:N	1.88	0.88
1:E:639:ASN:HD22	1:E:639:ASN:H	0.89	0.88
1:D:186:LYS:HE3	1:D:234:LEU:HD12	1.56	0.88
1:E:462:ILE:HG12	1:E:463:THR:H	1.38	0.88
1:B:457:THR:HG21	1:B:468:LYS:HA	1.56	0.88
1:E:737:LYS:HA	1:E:737:LYS:HE2	1.53	0.88
1:F:186:LYS:HA	1:F:190:PRO:HD3	1.54	0.88
1:B:254:ARG:HB3	1:B:254:ARG:HH11	1.38	0.88
1:E:89:ILE:HG22	1:E:93:VAL:HG11	1.54	0.88
1:A:186:LYS:HE3	1:A:234:LEU:HD12	1.56	0.88
1:A:254:ARG:HB3	1:A:254:ARG:HH11	1.38	0.88
1:D:188:LEU:N	1:D:188:LEU:HD23	1.88	0.88
1:E:354:SER:O	1:E:371:SER:HB2	1.74	0.88
1:F:153:ILE:O	1:F:154:ILE:HD13	1.74	0.88
1:A:462:ILE:HG12	1:A:463:THR:H	1.38	0.88
2:H:36:MET:HE3	2:H:43:PRO:HG3	1.54	0.87
1:D:697:ILE:HG21	1:D:732:ILE:HD11	1.57	0.87
1:E:248:TYR:HD1	1:E:268:MET:HB2	1.38	0.87
1:C:153:ILE:O	1:C:154:ILE:HD13	1.75	0.87
1:D:354:SER:O	1:D:371:SER:HB2	1.74	0.87
1:E:456:LYS:HB3	1:E:471:TRP:H	1.38	0.87
2:K:37:ARG:HA	2:K:41:GLN:O	1.74	0.87
1:A:639:ASN:ND2	1:A:639:ASN:H	1.72	0.87
1:B:115:LYS:HZ3	1:B:116:GLU:N	1.72	0.87
1:C:567:THR:HG23	1:C:568:GLY:N	1.88	0.87
1:E:457:THR:HG21	1:E:468:LYS:HA	1.56	0.87
1:B:115:LYS:HZ3	1:B:116:GLU:H	1.23	0.87
1:B:639:ASN:H	1:B:639:ASN:ND2	1.72	0.87
1:B:639:ASN:HD22	1:B:639:ASN:H	0.89	0.87
1:C:254:ARG:HH11	1:C:254:ARG:HB3	1.38	0.87
1:A:354:SER:O	1:A:371:SER:HB2	1.74	0.87
1:A:372:LYS:HG3	1:A:373:LYS:H	1.40	0.87
1:E:360:VAL:HG11	1:E:370:LEU:HD22	1.57	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:189:ASP:O	1:C:191:GLU:N	2.06	0.87
1:C:89:ILE:HG22	1:C:93:VAL:HG11	1.55	0.87
1:C:354:SER:O	1:C:371:SER:HB2	1.74	0.86
1:C:697:ILE:HG21	1:C:732:ILE:HD11	1.56	0.86
1:E:90:PRO:HG2	1:E:93:VAL:HB	1.57	0.86
2:I:37:ARG:HA	2:I:41:GLN:O	1.75	0.86
2:L:37:ARG:HA	2:L:41:GLN:O	1.75	0.86
1:E:567:THR:HG23	1:E:568:GLY:N	1.88	0.86
1:F:360:VAL:HG11	1:F:370:LEU:HD22	1.57	0.86
1:F:567:THR:HG23	1:F:568:GLY:N	1.88	0.86
1:A:90:PRO:HG2	1:A:93:VAL:HB	1.57	0.86
1:B:697:ILE:HG21	1:B:732:ILE:HD11	1.55	0.86
1:D:115:LYS:HZ1	1:D:116:GLU:N	1.72	0.86
1:F:639:ASN:H	1:F:639:ASN:ND2	1.72	0.86
1:B:90:PRO:HG2	1:B:93:VAL:HB	1.58	0.86
1:D:248:TYR:HD1	1:D:268:MET:HB2	1.38	0.86
1:A:153:ILE:O	1:A:154:ILE:HD13	1.75	0.86
1:A:457:THR:HG21	1:A:468:LYS:HA	1.56	0.86
1:D:90:PRO:HG2	1:D:93:VAL:HB	1.57	0.86
1:F:107:THR:HG21	1:F:115:LYS:HD2	1.56	0.86
1:F:248:TYR:HD1	1:F:268:MET:HB2	1.37	0.86
1:F:697:ILE:HG21	1:F:732:ILE:HD11	1.57	0.86
1:D:165:GLN:HE21	1:D:251:PRO:HG2	1.40	0.86
1:E:372:LYS:HG3	1:E:373:LYS:H	1.40	0.86
2:H:37:ARG:HA	2:H:41:GLN:O	1.75	0.86
2:J:37:ARG:HA	2:J:41:GLN:O	1.76	0.86
1:A:697:ILE:HG21	1:A:732:ILE:HD11	1.57	0.86
1:B:107:THR:HG21	1:B:115:LYS:HD2	1.57	0.86
1:C:107:THR:HG21	1:C:115:LYS:HD2	1.57	0.86
1:E:115:LYS:HZ3	1:E:116:GLU:N	1.74	0.86
1:F:115:LYS:HZ3	1:F:116:GLU:H	1.20	0.86
2:M:37:ARG:HA	2:M:41:GLN:O	1.75	0.86
1:A:360:VAL:HG11	1:A:370:LEU:HD22	1.58	0.86
1:A:724:ARG:HH11	1:A:724:ARG:HG3	1.41	0.86
1:C:246:SER:O	1:C:250:ALA:HB2	1.76	0.86
1:C:360:VAL:HG11	1:C:370:LEU:HD22	1.57	0.86
1:C:462:ILE:HG12	1:C:463:THR:H	1.38	0.86
1:B:153:ILE:O	1:B:154:ILE:HD13	1.76	0.86
1:B:165:GLN:HE21	1:B:251:PRO:HG2	1.40	0.86
1:C:248:TYR:HD1	1:C:268:MET:HB2	1.37	0.86
1:E:639:ASN:ND2	1:E:639:ASN:H	1.73	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:254:ARG:HB3	1:F:254:ARG:HH11	1.38	0.86
1:F:462:ILE:HG12	1:F:463:THR:H	1.38	0.86
1:F:186:LYS:HE3	1:F:234:LEU:HD12	1.57	0.85
1:E:153:ILE:O	1:E:154:ILE:HD13	1.76	0.85
1:B:520:PRO:HG2	1:B:521:ASN:H	1.41	0.85
1:C:457:THR:HG21	1:C:468:LYS:HA	1.56	0.85
1:E:697:ILE:HG21	1:E:732:ILE:HD11	1.56	0.85
1:B:767:GLN:HG2	1:B:768:LYS:N	1.90	0.85
1:D:153:ILE:O	1:D:154:ILE:HD13	1.75	0.85
1:F:354:SER:O	1:F:371:SER:HB2	1.75	0.85
1:F:639:ASN:H	1:F:639:ASN:HD22	0.89	0.85
1:F:767:GLN:HG2	1:F:768:LYS:N	1.91	0.85
1:D:434:LEU:HD13	1:D:435:LEU:N	1.90	0.85
1:D:520:PRO:HG2	1:D:521:ASN:H	1.41	0.85
1:D:639:ASN:ND2	1:D:639:ASN:H	1.73	0.85
1:F:457:THR:HG21	1:F:468:LYS:HA	1.56	0.85
1:C:639:ASN:H	1:C:639:ASN:ND2	1.73	0.85
1:D:246:SER:O	1:D:250:ALA:HB2	1.76	0.85
1:D:639:ASN:H	1:D:639:ASN:HD22	0.90	0.85
1:D:729:TYR:HB2	1:D:756:ILE:HG21	1.59	0.85
1:F:372:LYS:HG3	1:F:373:LYS:H	1.40	0.85
1:F:90:PRO:HG2	1:F:93:VAL:HB	1.58	0.85
1:A:639:ASN:HD22	1:A:639:ASN:H	0.89	0.85
1:B:724:ARG:HG3	1:B:724:ARG:HH11	1.42	0.85
1:C:115:LYS:HZ3	1:C:116:GLU:H	1.25	0.85
1:D:225:ILE:HG12	1:D:229:PHE:HE2	1.42	0.85
1:E:107:THR:HG21	1:E:115:LYS:HD2	1.57	0.85
1:C:165:GLN:HE21	1:C:251:PRO:HG2	1.40	0.85
1:D:360:VAL:HG11	1:D:370:LEU:HD22	1.59	0.85
1:F:165:GLN:HE21	1:F:251:PRO:HG2	1.39	0.85
1:B:360:VAL:HG11	1:B:370:LEU:HD22	1.58	0.85
1:C:724:ARG:HG3	1:C:724:ARG:HH11	1.41	0.85
1:D:457:THR:HG21	1:D:468:LYS:HA	1.56	0.85
1:D:579:THR:O	1:D:581:GLN:N	2.10	0.84
1:E:225:ILE:HG12	1:E:229:PHE:HE2	1.41	0.84
1:F:89:ILE:HG22	1:F:93:VAL:HG11	1.56	0.84
1:A:579:THR:O	1:A:581:GLN:N	2.10	0.84
1:C:225:ILE:HG12	1:C:229:PHE:HE2	1.42	0.84
1:E:165:GLN:HE21	1:E:251:PRO:HG2	1.40	0.84
1:A:165:GLN:HE21	1:A:251:PRO:HG2	1.42	0.84
1:D:372:LYS:HG3	1:D:373:LYS:H	1.40	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:520:PRO:HG2	1:E:521:ASN:H	1.42	0.84
1:B:189:ASP:O	1:B:191:GLU:N	2.08	0.84
1:B:246:SER:O	1:B:250:ALA:HB2	1.76	0.84
1:C:90:PRO:HG2	1:C:93:VAL:HB	1.58	0.84
1:D:724:ARG:HH11	1:D:724:ARG:HG3	1.42	0.84
1:E:579:THR:O	1:E:581:GLN:N	2.10	0.84
1:E:724:ARG:HG3	1:E:724:ARG:HH11	1.40	0.84
1:A:115:LYS:HZ3	1:A:116:GLU:H	1.26	0.84
1:A:225:ILE:HG12	1:A:229:PHE:HE2	1.43	0.84
1:A:246:SER:O	1:A:250:ALA:HB2	1.76	0.84
1:C:115:LYS:HZ3	1:C:116:GLU:N	1.74	0.84
1:E:115:LYS:HZ3	1:E:116:GLU:H	1.24	0.84
1:E:295:VAL:HB	1:E:603:ILE:HG23	1.60	0.84
1:B:372:LYS:HG3	1:B:373:LYS:H	1.40	0.84
1:C:579:THR:O	1:C:581:GLN:N	2.10	0.84
1:A:107:THR:HG21	1:A:115:LYS:HD2	1.57	0.84
1:B:550:SER:H	1:B:553:GLN:HE21	1.22	0.84
1:C:186:LYS:HE3	1:C:234:LEU:HD12	1.60	0.84
1:E:112:VAL:HG12	1:E:113:GLU:H	1.43	0.84
1:B:225:ILE:HG12	1:B:229:PHE:HE2	1.42	0.84
1:B:579:THR:O	1:B:581:GLN:N	2.10	0.84
1:C:112:VAL:HG12	1:C:113:GLU:H	1.43	0.84
1:C:520:PRO:HG2	1:C:521:ASN:H	1.42	0.84
1:C:729:TYR:HB2	1:C:756:ILE:HG21	1.60	0.84
1:D:112:VAL:HG12	1:D:113:GLU:H	1.43	0.84
1:E:550:SER:H	1:E:553:GLN:HE21	1.21	0.84
1:E:767:GLN:HG2	1:E:768:LYS:HG2	1.59	0.84
1:A:115:LYS:HZ3	1:A:116:GLU:N	1.75	0.83
1:B:142:VAL:HG22	1:B:154:ILE:HD12	1.60	0.83
1:B:295:VAL:HB	1:B:603:ILE:HG23	1.60	0.83
1:A:112:VAL:HG12	1:A:113:GLU:H	1.43	0.83
1:C:372:LYS:HG3	1:C:373:LYS:H	1.40	0.83
1:D:107:THR:HG21	1:D:115:LYS:HD2	1.57	0.83
1:F:724:ARG:HG3	1:F:724:ARG:HH11	1.42	0.83
1:B:112:VAL:HG12	1:B:113:GLU:H	1.43	0.83
1:C:639:ASN:HD22	1:C:639:ASN:H	0.89	0.83
1:F:142:VAL:HG22	1:F:154:ILE:HD12	1.60	0.83
1:F:520:PRO:HG2	1:F:521:ASN:H	1.42	0.83
1:F:550:SER:H	1:F:553:GLN:HE21	1.22	0.83
1:F:579:THR:O	1:F:581:GLN:N	2.10	0.83
2:L:30:LYS:HD3	2:L:30:LYS:H	1.43	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:550:SER:H	1:C:553:GLN:HE21	1.24	0.83
1:E:142:VAL:HG22	1:E:154:ILE:HD12	1.61	0.83
1:F:295:VAL:HB	1:F:603:ILE:HG23	1.60	0.83
1:F:718:ARG:NH1	1:F:767:GLN:HE21	1.76	0.83
1:B:186:LYS:HE3	1:B:234:LEU:HD12	1.60	0.83
1:E:246:SER:O	1:E:250:ALA:HB2	1.77	0.83
1:B:148:GLU:HG3	1:B:149:THR:N	1.93	0.83
1:D:115:LYS:HZ1	1:D:116:GLU:H	1.24	0.83
1:E:729:TYR:HB2	1:E:756:ILE:HG21	1.59	0.83
1:C:148:GLU:HG3	1:C:149:THR:N	1.93	0.83
1:D:295:VAL:HB	1:D:603:ILE:HG23	1.60	0.83
1:F:112:VAL:HG12	1:F:113:GLU:H	1.44	0.83
1:A:550:SER:H	1:A:553:GLN:HE21	1.22	0.83
1:F:225:ILE:HG12	1:F:229:PHE:HE2	1.42	0.83
1:B:254:ARG:HD2	1:B:254:ARG:H	1.44	0.83
1:F:246:SER:O	1:F:250:ALA:HB2	1.78	0.83
2:I:30:LYS:H	2:I:30:LYS:HD3	1.44	0.83
1:D:550:SER:H	1:D:553:GLN:HE21	1.21	0.82
1:A:694:VAL:HG23	2:H:18:LEU:HD21	1.60	0.82
2:J:30:LYS:H	2:J:30:LYS:HD3	1.44	0.82
1:A:142:VAL:HG22	1:A:154:ILE:HD12	1.61	0.82
1:A:268:MET:O	1:A:271:LEU:HB2	1.79	0.82
1:D:325:TYR:CE1	1:D:598:PRO:HD3	2.14	0.82
1:A:520:PRO:HG2	1:A:521:ASN:H	1.42	0.82
1:A:729:TYR:HB2	1:A:756:ILE:HG21	1.60	0.82
1:D:142:VAL:HG22	1:D:154:ILE:HD12	1.61	0.82
1:D:254:ARG:HD2	1:D:254:ARG:H	1.44	0.82
1:D:268:MET:HA	1:D:271:LEU:HD12	1.61	0.82
1:C:325:TYR:CE1	1:C:598:PRO:HD3	2.14	0.82
2:K:37:ARG:HG2	2:K:37:ARG:HH11	1.43	0.82
2:L:48:LEU:HA	2:L:51:MET:HE1	1.61	0.82
1:A:718:ARG:O	1:A:722:ILE:HG13	1.80	0.82
1:C:295:VAL:HB	1:C:603:ILE:HG23	1.60	0.82
1:E:186:LYS:HE3	1:E:234:LEU:HD12	1.60	0.82
1:B:729:TYR:HB2	1:B:756:ILE:HG21	1.60	0.82
1:C:254:ARG:H	1:C:254:ARG:HD2	1.44	0.82
2:H:30:LYS:HD3	2:H:30:LYS:H	1.43	0.82
1:B:694:VAL:HG23	2:I:18:LEU:HD21	1.62	0.82
1:E:694:VAL:HG23	2:L:18:LEU:HD21	1.62	0.82
1:C:142:VAL:HG22	1:C:154:ILE:HD12	1.61	0.82
1:A:325:TYR:CE1	1:A:598:PRO:HD3	2.14	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:37:ARG:HG2	2:M:37:ARG:HH11	1.45	0.82
1:C:268:MET:HA	1:C:271:LEU:HD12	1.62	0.82
1:F:254:ARG:HD2	1:F:254:ARG:H	1.43	0.82
2:J:37:ARG:HG2	2:J:37:ARG:HH11	1.45	0.82
2:M:36:MET:HE3	2:M:43:PRO:HG3	1.61	0.82
1:E:661:ALA:O	1:E:665:LYS:HB2	1.80	0.81
1:B:607:ASN:HB3	1:B:609:GLU:OE2	1.80	0.81
1:D:160:ALA:O	1:D:161:ILE:HG13	1.80	0.81
1:E:550:SER:H	1:E:553:GLN:NE2	1.78	0.81
2:M:30:LYS:HD3	2:M:30:LYS:H	1.44	0.81
1:B:550:SER:H	1:B:553:GLN:NE2	1.78	0.81
1:D:661:ALA:O	1:D:665:LYS:HB2	1.79	0.81
1:A:715:GLU:HG3	1:A:767:GLN:NE2	1.94	0.81
1:B:718:ARG:O	1:B:722:ILE:HG13	1.81	0.81
1:C:324:THR:HB	1:C:499:PRO:HA	1.63	0.81
1:D:607:ASN:HB3	1:D:609:GLU:OE2	1.81	0.81
1:E:718:ARG:O	1:E:722:ILE:HG13	1.80	0.81
1:B:268:MET:O	1:B:271:LEU:HB2	1.81	0.81
1:E:550:SER:HB3	1:E:553:GLN:HG3	1.62	0.81
1:F:148:GLU:HG3	1:F:149:THR:N	1.94	0.81
1:F:550:SER:HB3	1:F:553:GLN:HG3	1.61	0.81
2:M:48:LEU:HA	2:M:51:MET:HE1	1.62	0.81
1:E:550:SER:HB3	1:E:553:GLN:CG	2.10	0.81
1:B:716:LYS:O	1:B:720:ILE:HG22	1.81	0.81
1:C:661:ALA:O	1:C:665:LYS:HB2	1.80	0.81
1:F:325:TYR:CE1	1:F:598:PRO:HD3	2.15	0.81
1:F:607:ASN:HB3	1:F:609:GLU:OE2	1.81	0.81
1:F:729:TYR:HB2	1:F:756:ILE:HG21	1.60	0.81
2:J:48:LEU:HA	2:J:51:MET:HE1	1.63	0.81
1:D:694:VAL:HG23	2:K:18:LEU:HD21	1.62	0.81
2:M:121:VAL:C	2:M:123:GLU:H	1.84	0.81
1:A:254:ARG:H	1:A:254:ARG:HD2	1.44	0.81
1:A:295:VAL:HB	1:A:603:ILE:HG23	1.60	0.81
1:D:550:SER:HB3	1:D:553:GLN:CG	2.11	0.81
1:D:718:ARG:O	1:D:722:ILE:HG13	1.80	0.81
2:L:37:ARG:HH11	2:L:37:ARG:HG2	1.45	0.81
1:A:607:ASN:HB3	1:A:609:GLU:OE2	1.80	0.81
1:A:661:ALA:O	1:A:665:LYS:HB2	1.81	0.81
1:B:661:ALA:O	1:B:665:LYS:HB2	1.80	0.81
1:C:182:ILE:HD13	1:C:182:ILE:O	1.81	0.81
1:C:694:VAL:HG23	2:J:18:LEU:HD21	1.61	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:611:THR:O	1:E:615:ILE:HG13	1.81	0.81
1:F:189:ASP:O	1:F:191:GLU:N	2.13	0.81
1:B:268:MET:HA	1:B:271:LEU:HD12	1.61	0.81
1:E:325:TYR:CE1	1:E:598:PRO:HD3	2.15	0.81
1:F:268:MET:O	1:F:271:LEU:HB2	1.80	0.81
1:C:607:ASN:HB3	1:C:609:GLU:OE2	1.81	0.80
1:E:122:GLU:CG	1:E:147:ARG:HB2	2.11	0.80
1:A:268:MET:HA	1:A:271:LEU:HD12	1.60	0.80
1:B:550:SER:HB3	1:B:553:GLN:CG	2.10	0.80
1:D:182:ILE:HD13	1:D:182:ILE:O	1.81	0.80
1:D:550:SER:H	1:D:553:GLN:NE2	1.77	0.80
1:F:550:SER:H	1:F:553:GLN:NE2	1.78	0.80
1:E:254:ARG:HD2	1:E:254:ARG:H	1.44	0.80
1:B:550:SER:HB3	1:B:553:GLN:HG3	1.61	0.80
1:D:268:MET:O	1:D:271:LEU:HB2	1.81	0.80
1:E:716:LYS:O	1:E:720:ILE:HG22	1.81	0.80
1:F:324:THR:HB	1:F:499:PRO:HA	1.63	0.80
1:F:550:SER:HB3	1:F:553:GLN:CG	2.11	0.80
1:B:668:SER:HA	2:I:14:GLU:HG3	1.64	0.80
2:J:121:VAL:C	2:J:123:GLU:H	1.84	0.80
2:K:30:LYS:HD3	2:K:30:LYS:H	1.44	0.80
1:B:325:TYR:CE1	1:B:598:PRO:HD3	2.16	0.80
1:C:76:LEU:O	1:C:78:LYS:N	2.15	0.80
1:D:715:GLU:HG3	1:D:767:GLN:NE2	1.96	0.80
1:E:268:MET:O	1:E:271:LEU:HB2	1.82	0.80
1:F:182:ILE:O	1:F:182:ILE:HD13	1.81	0.80
1:A:550:SER:H	1:A:553:GLN:NE2	1.79	0.80
1:A:716:LYS:O	1:A:720:ILE:HG22	1.81	0.80
1:E:288:VAL:HG23	1:E:289:GLU:H	1.47	0.80
2:L:117:THR:HG23	2:L:120:GLU:HB2	1.64	0.80
1:C:288:VAL:HG23	1:C:289:GLU:H	1.47	0.80
1:B:66:LEU:HD12	1:B:103:GLU:HA	1.64	0.80
1:C:268:MET:O	1:C:271:LEU:HB2	1.80	0.80
1:D:611:THR:O	1:D:615:ILE:HG13	1.83	0.80
1:E:268:MET:HA	1:E:271:LEU:HD12	1.62	0.80
1:A:248:TYR:CD1	1:A:268:MET:HB2	2.18	0.79
1:A:611:THR:O	1:A:615:ILE:HG13	1.82	0.79
1:C:550:SER:H	1:C:553:GLN:NE2	1.79	0.79
1:E:607:ASN:HB3	1:E:609:GLU:OE2	1.81	0.79
1:F:66:LEU:HD12	1:F:103:GLU:HA	1.64	0.79
1:F:288:VAL:HG23	1:F:289:GLU:H	1.47	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:661:ALA:O	1:F:665:LYS:HB2	1.80	0.79
1:A:664:ILE:HG21	2:H:15:ALA:HB2	1.65	0.79
1:B:248:TYR:CD1	1:B:268:MET:HB2	2.17	0.79
1:B:324:THR:HB	1:B:499:PRO:HA	1.64	0.79
1:C:597:ASN:HD22	1:C:601:GLU:N	1.81	0.79
1:D:288:VAL:HG23	1:D:289:GLU:H	1.47	0.79
1:E:66:LEU:HD12	1:E:103:GLU:HA	1.64	0.79
2:I:117:THR:HG23	2:I:120:GLU:HB2	1.64	0.79
2:I:37:ARG:HG2	2:I:37:ARG:HH11	1.45	0.79
2:M:92:PHE:O	2:M:94:LYS:N	2.15	0.79
1:A:324:THR:HB	1:A:499:PRO:HA	1.64	0.79
1:C:550:SER:HB3	1:C:553:GLN:CG	2.12	0.79
1:D:122:GLU:CG	1:D:147:ARG:HB2	2.10	0.79
1:E:182:ILE:O	1:E:182:ILE:HD13	1.81	0.79
1:F:611:THR:O	1:F:615:ILE:HG13	1.82	0.79
1:A:288:VAL:HG23	1:A:289:GLU:H	1.47	0.79
1:A:550:SER:HB3	1:A:553:GLN:CG	2.12	0.79
1:B:182:ILE:O	1:B:182:ILE:HD13	1.81	0.79
1:B:288:VAL:HG23	1:B:289:GLU:H	1.47	0.79
2:L:92:PHE:O	2:L:94:LYS:N	2.16	0.79
1:B:141:PHE:HD1	1:B:141:PHE:H	1.30	0.79
1:C:66:LEU:HD12	1:C:103:GLU:HA	1.65	0.79
1:D:180:ASP:CG	1:D:181:ILE:H	1.86	0.79
1:D:716:LYS:O	1:D:720:ILE:HG22	1.81	0.79
1:A:66:LEU:HD12	1:A:103:GLU:HA	1.65	0.79
1:B:160:ALA:O	1:B:161:ILE:HG13	1.83	0.79
1:D:66:LEU:HD12	1:D:103:GLU:HA	1.65	0.79
1:D:715:GLU:HG3	1:D:767:GLN:HE21	1.47	0.79
1:C:715:GLU:HG3	1:C:767:GLN:NE2	1.96	0.79
1:D:550:SER:HB3	1:D:553:GLN:HG3	1.62	0.79
1:E:141:PHE:H	1:E:141:PHE:HD1	1.30	0.79
2:K:48:LEU:HA	2:K:51:MET:HE1	1.65	0.79
1:F:694:VAL:HG23	2:M:18:LEU:HD21	1.63	0.79
1:F:716:LYS:O	1:F:720:ILE:HG22	1.82	0.79
1:A:550:SER:HB3	1:A:553:GLN:HB2	1.65	0.79
1:C:715:GLU:HG3	1:C:767:GLN:HE21	1.46	0.79
2:H:92:PHE:O	2:H:94:LYS:N	2.16	0.79
2:J:92:PHE:O	2:J:94:LYS:N	2.16	0.79
1:C:718:ARG:O	1:C:722:ILE:HG13	1.82	0.78
1:E:180:ASP:CG	1:E:181:ILE:H	1.87	0.78
1:F:268:MET:HA	1:F:271:LEU:HD12	1.62	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:37:ARG:HG2	2:H:37:ARG:HH11	1.45	0.78
2:L:121:VAL:C	2:L:123:GLU:H	1.84	0.78
1:B:611:THR:O	1:B:615:ILE:HG13	1.84	0.78
1:C:611:THR:O	1:C:615:ILE:HG13	1.84	0.78
1:F:718:ARG:O	1:F:722:ILE:HG13	1.82	0.78
2:J:117:THR:HG23	2:J:120:GLU:HB2	1.64	0.78
2:L:65:PHE:CD1	2:L:66:PRO:HD3	2.18	0.78
1:A:182:ILE:O	1:A:182:ILE:HD13	1.83	0.78
1:D:76:LEU:O	1:D:78:LYS:N	2.16	0.78
1:E:76:LEU:O	1:E:78:LYS:N	2.16	0.78
2:M:117:THR:HG23	2:M:120:GLU:HB2	1.64	0.78
1:C:180:ASP:CG	1:C:181:ILE:H	1.87	0.78
1:C:716:LYS:O	1:C:720:ILE:HG22	1.81	0.78
1:D:228:ASN:O	1:D:229:PHE:HB3	1.84	0.78
1:D:248:TYR:CD1	1:D:268:MET:HB2	2.18	0.78
1:E:248:TYR:CD1	1:E:268:MET:HB2	2.18	0.78
1:F:180:ASP:CG	1:F:181:ILE:H	1.87	0.78
1:F:397:GLU:HA	1:F:480:ASN:HB2	1.65	0.78
2:H:117:THR:HG23	2:H:120:GLU:HB2	1.64	0.78
1:A:597:ASN:HD22	1:A:601:GLU:N	1.81	0.78
1:E:324:THR:HB	1:E:499:PRO:HA	1.65	0.78
2:M:65:PHE:CD1	2:M:66:PRO:HD3	2.18	0.78
1:A:180:ASP:CG	1:A:181:ILE:H	1.86	0.78
1:A:228:ASN:O	1:A:229:PHE:HB3	1.84	0.78
1:E:550:SER:HB3	1:E:553:GLN:HB2	1.66	0.78
1:B:76:LEU:O	1:B:78:LYS:N	2.16	0.78
1:C:248:TYR:CD1	1:C:268:MET:HB2	2.18	0.78
1:D:597:ASN:HD22	1:D:601:GLU:N	1.81	0.78
1:F:597:ASN:HD22	1:F:601:GLU:N	1.82	0.78
1:A:456:LYS:HB3	1:A:471:TRP:N	1.98	0.78
1:D:141:PHE:H	1:D:141:PHE:HD1	1.30	0.78
1:D:324:THR:HB	1:D:499:PRO:HA	1.64	0.78
1:E:228:ASN:O	1:E:229:PHE:HB3	1.83	0.78
1:E:434:LEU:HD12	1:E:435:LEU:N	1.98	0.78
1:E:597:ASN:HD22	1:E:601:GLU:N	1.82	0.78
2:J:65:PHE:CD1	2:J:66:PRO:HD3	2.18	0.78
2:K:117:THR:HG23	2:K:120:GLU:HB2	1.64	0.78
1:D:550:SER:HB3	1:D:553:GLN:HB2	1.66	0.78
1:E:792:VAL:HG12	1:E:796:ILE:HD11	1.65	0.78
2:H:121:VAL:C	2:H:123:GLU:H	1.84	0.78
1:A:550:SER:HB3	1:A:553:GLN:HG3	1.63	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:141:PHE:HD1	1:C:141:PHE:H	1.30	0.78
1:F:199:LEU:C	1:F:201:ASP:H	1.87	0.78
2:I:121:VAL:C	2:I:123:GLU:H	1.83	0.78
2:K:65:PHE:CD1	2:K:66:PRO:HD3	2.18	0.78
1:B:597:ASN:HD22	1:B:601:GLU:N	1.82	0.77
1:C:792:VAL:HG12	1:C:796:ILE:HD11	1.65	0.77
1:D:100:LEU:HD11	1:D:182:ILE:HG21	1.66	0.77
1:D:499:PRO:HD3	1:D:552:TRP:CH2	2.19	0.77
1:E:678:VAL:HG22	1:E:745:TYR:CE2	2.19	0.77
2:H:65:PHE:CD1	2:H:66:PRO:HD3	2.18	0.77
2:K:92:PHE:O	2:K:94:LYS:N	2.17	0.77
1:A:499:PRO:HD3	1:A:552:TRP:CH2	2.20	0.77
1:B:180:ASP:CG	1:B:181:ILE:H	1.87	0.77
1:B:792:VAL:HG12	1:B:796:ILE:HD11	1.65	0.77
1:C:154:ILE:HG13	1:C:171:TYR:HE1	1.48	0.77
1:C:550:SER:HB3	1:C:553:GLN:HB2	1.66	0.77
1:D:456:LYS:HB3	1:D:471:TRP:N	1.99	0.77
1:D:792:VAL:HG12	1:D:796:ILE:HD11	1.65	0.77
1:C:550:SER:HB3	1:C:553:GLN:HG3	1.64	0.77
1:F:550:SER:HB3	1:F:553:GLN:HB2	1.66	0.77
2:H:48:LEU:HA	2:H:51:MET:HE1	1.66	0.77
2:I:92:PHE:O	2:I:94:LYS:N	2.17	0.77
2:J:36:MET:CE	2:J:43:PRO:HG3	2.14	0.77
2:K:121:VAL:C	2:K:123:GLU:H	1.84	0.77
1:A:76:LEU:O	1:A:78:LYS:N	2.16	0.77
1:A:776:LEU:O	1:A:776:LEU:HD23	1.84	0.77
1:B:499:PRO:HD3	1:B:552:TRP:CH2	2.20	0.77
1:D:397:GLU:HA	1:D:480:ASN:HB2	1.65	0.77
1:F:456:LYS:HB3	1:F:471:TRP:N	1.98	0.77
1:F:76:LEU:O	1:F:78:LYS:N	2.16	0.77
1:A:141:PHE:H	1:A:141:PHE:HD1	1.30	0.77
1:B:456:LYS:HB3	1:B:471:TRP:N	1.98	0.77
1:C:776:LEU:HD23	1:C:776:LEU:O	1.85	0.77
1:E:456:LYS:HB3	1:E:471:TRP:N	1.99	0.77
1:E:325:TYR:HB2	1:E:498:ALA:HB3	1.67	0.77
1:E:499:PRO:HD3	1:E:552:TRP:CH2	2.20	0.77
1:C:115:LYS:HD3	1:C:153:ILE:HD13	1.67	0.77
2:J:36:MET:HE3	2:J:43:PRO:HG3	1.65	0.77
1:A:397:GLU:HA	1:A:480:ASN:HB2	1.65	0.77
1:D:179:LEU:HD23	1:D:179:LEU:H	1.50	0.77
1:E:115:LYS:HD3	1:E:153:ILE:HD13	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:248:TYR:CD1	1:F:268:MET:HB2	2.18	0.77
1:F:499:PRO:HD3	1:F:552:TRP:CH2	2.19	0.77
1:A:668:SER:HA	2:H:14:GLU:HG3	1.66	0.77
1:B:397:GLU:HA	1:B:480:ASN:HB2	1.66	0.77
1:B:550:SER:HB3	1:B:553:GLN:HB2	1.67	0.77
1:B:316:LYS:HG3	1:B:600:GLY:HA2	1.67	0.77
1:C:499:PRO:HD3	1:C:552:TRP:CH2	2.19	0.77
1:C:668:SER:HA	2:J:14:GLU:HG3	1.66	0.77
1:D:776:LEU:O	1:D:776:LEU:HD23	1.85	0.77
1:F:160:ALA:O	1:F:161:ILE:HG13	1.85	0.77
1:C:664:ILE:HG21	2:J:15:ALA:HB2	1.66	0.77
1:B:434:LEU:HD13	1:B:435:LEU:N	1.99	0.77
1:C:456:LYS:HB3	1:C:471:TRP:N	1.98	0.77
1:D:115:LYS:HD3	1:D:153:ILE:HD13	1.66	0.77
1:B:664:ILE:HG21	2:I:15:ALA:HB2	1.67	0.77
2:I:65:PHE:CD1	2:I:66:PRO:HD3	2.18	0.77
1:A:792:VAL:HG12	1:A:796:ILE:HD11	1.65	0.77
1:B:228:ASN:O	1:B:229:PHE:HB3	1.84	0.77
1:E:316:LYS:HG3	1:E:600:GLY:HA2	1.67	0.77
1:E:668:SER:HA	2:L:14:GLU:HG3	1.67	0.77
1:F:141:PHE:H	1:F:141:PHE:HD1	1.30	0.77
2:K:36:MET:CE	2:K:43:PRO:HG3	2.15	0.77
1:F:115:LYS:HD3	1:F:153:ILE:HD13	1.67	0.76
1:C:397:GLU:HA	1:C:480:ASN:HB2	1.65	0.76
1:D:154:ILE:HG13	1:D:171:TYR:HE1	1.48	0.76
1:D:709:ASN:HB2	2:K:130:ILE:HG23	1.67	0.76
2:I:48:LEU:HA	2:I:51:MET:HE1	1.66	0.76
1:F:115:LYS:HZ3	1:F:116:GLU:HG2	1.47	0.76
1:F:228:ASN:O	1:F:229:PHE:HB3	1.83	0.76
1:F:409:ARG:NE	1:F:413:LEU:HD21	2.00	0.76
1:F:435:LEU:HG	1:F:446:ILE:HG22	1.66	0.76
2:H:36:MET:CE	2:H:43:PRO:HG3	2.15	0.76
1:A:671:ARG:NH1	1:A:677:GLY:HA3	2.00	0.76
1:B:154:ILE:HG13	1:B:171:TYR:HE1	1.48	0.76
1:C:316:LYS:HG3	1:C:600:GLY:HA2	1.68	0.76
1:F:154:ILE:HG13	1:F:171:TYR:HE1	1.47	0.76
1:F:792:VAL:HG12	1:F:796:ILE:HD11	1.66	0.76
1:F:709:ASN:HB2	2:M:130:ILE:HG23	1.68	0.76
2:M:36:MET:CE	2:M:43:PRO:HG3	2.16	0.76
1:B:776:LEU:HD23	1:B:776:LEU:O	1.84	0.76
1:C:671:ARG:NH1	1:C:677:GLY:HA3	2.01	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:409:ARG:NE	1:E:413:LEU:HD21	2.01	0.76
2:L:36:MET:CE	2:L:43:PRO:HG3	2.14	0.76
1:A:325:TYR:HB2	1:A:498:ALA:HB3	1.68	0.76
1:A:316:LYS:HG3	1:A:600:GLY:HA2	1.67	0.76
1:B:409:ARG:NE	1:B:413:LEU:HD21	2.01	0.76
1:C:179:LEU:HD23	1:C:179:LEU:H	1.50	0.76
1:D:664:ILE:HG21	2:K:15:ALA:HB2	1.67	0.76
1:E:397:GLU:HA	1:E:480:ASN:HB2	1.66	0.76
1:F:316:LYS:HG3	1:F:600:GLY:HA2	1.68	0.76
1:F:671:ARG:NH1	1:F:677:GLY:HA3	2.01	0.76
2:I:36:MET:CE	2:I:43:PRO:HG3	2.16	0.76
1:E:664:ILE:HG21	2:L:15:ALA:HB2	1.67	0.76
1:A:435:LEU:HG	1:A:446:ILE:HG22	1.66	0.76
1:B:115:LYS:HD3	1:B:153:ILE:HD13	1.67	0.76
1:E:100:LEU:HD11	1:E:182:ILE:HG21	1.68	0.76
1:E:154:ILE:HG13	1:E:171:TYR:HE1	1.47	0.76
1:E:199:LEU:C	1:E:201:ASP:H	1.88	0.76
1:A:199:LEU:C	1:A:201:ASP:H	1.88	0.76
1:F:275:GLY:HA2	1:F:278:LYS:CE	2.16	0.76
1:A:179:LEU:HD23	1:A:179:LEU:H	1.50	0.76
1:A:409:ARG:NE	1:A:413:LEU:HD21	2.01	0.76
1:C:275:GLY:HA2	1:C:278:LYS:CE	2.16	0.76
1:C:409:ARG:NE	1:C:413:LEU:HD21	2.00	0.76
1:D:316:LYS:HG3	1:D:600:GLY:HA2	1.68	0.76
1:F:664:ILE:HG21	2:M:15:ALA:HB2	1.66	0.76
2:I:48:LEU:HD12	2:I:51:MET:HE1	1.68	0.75
1:A:154:ILE:HG13	1:A:171:TYR:HE1	1.48	0.75
1:B:100:LEU:HD11	1:B:182:ILE:HG21	1.68	0.75
1:C:199:LEU:C	1:C:201:ASP:H	1.89	0.75
1:E:179:LEU:HD23	1:E:179:LEU:H	1.50	0.75
2:I:36:MET:HE3	2:I:43:PRO:HG3	1.68	0.75
1:C:228:ASN:O	1:C:229:PHE:HB3	1.83	0.75
1:F:776:LEU:HD23	1:F:776:LEU:O	1.85	0.75
2:H:12:PHE:CE1	2:H:72:MET:HG3	2.22	0.75
1:D:409:ARG:NE	1:D:413:LEU:HD21	2.00	0.75
1:E:567:THR:CG2	1:E:568:GLY:H	1.99	0.75
1:E:709:ASN:HB2	2:L:130:ILE:HG23	1.67	0.75
1:D:325:TYR:HB2	1:D:498:ALA:HB3	1.69	0.75
1:E:671:ARG:NH1	1:E:677:GLY:HA3	2.01	0.75
1:D:134:LYS:HB3	1:D:136:PRO:HD2	1.69	0.75
1:C:567:THR:CG2	1:C:568:GLY:H	1.99	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:776:LEU:O	1:E:776:LEU:HD23	1.85	0.75
1:F:100:LEU:HD11	1:F:182:ILE:HG21	1.68	0.75
2:J:12:PHE:CE1	2:J:72:MET:HG3	2.22	0.75
1:A:115:LYS:HD3	1:A:153:ILE:HD13	1.67	0.75
1:B:671:ARG:NH1	1:B:677:GLY:HA3	2.01	0.75
1:D:275:GLY:HA2	1:D:278:LYS:CE	2.17	0.75
1:D:293:ILE:O	1:D:295:VAL:HG13	1.87	0.75
1:D:671:ARG:NH1	1:D:677:GLY:HA3	2.01	0.75
1:F:567:THR:CG2	1:F:568:GLY:H	1.99	0.75
2:H:48:LEU:HD12	2:H:51:MET:HE1	1.69	0.75
1:B:134:LYS:HB3	1:B:136:PRO:HD2	1.69	0.75
1:B:567:THR:CG2	1:B:568:GLY:H	1.99	0.75
1:D:567:THR:CG2	1:D:568:GLY:H	1.99	0.75
1:A:567:THR:CG2	1:A:568:GLY:H	1.99	0.74
1:C:134:LYS:HB3	1:C:136:PRO:HD2	1.69	0.74
1:D:199:LEU:C	1:D:201:ASP:H	1.88	0.74
1:E:275:GLY:HA2	1:E:278:LYS:CE	2.16	0.74
1:F:179:LEU:HD23	1:F:179:LEU:H	1.50	0.74
1:A:709:ASN:HB2	2:H:130:ILE:HG23	1.68	0.74
1:C:325:TYR:HB2	1:C:498:ALA:HB3	1.69	0.74
1:E:134:LYS:HB3	1:E:136:PRO:HD2	1.69	0.74
1:F:122:GLU:CG	1:F:147:ARG:HB2	2.14	0.74
1:A:718:ARG:NH1	1:A:767:GLN:HE21	1.85	0.74
1:E:293:ILE:O	1:E:295:VAL:HG13	1.87	0.74
1:C:160:ALA:O	1:C:161:ILE:HG13	1.86	0.74
1:C:678:VAL:HG22	1:C:745:TYR:CE2	2.22	0.74
1:F:325:TYR:HB2	1:F:498:ALA:HB3	1.69	0.74
1:B:179:LEU:H	1:B:179:LEU:HD23	1.51	0.74
1:A:293:ILE:O	1:A:295:VAL:HG13	1.87	0.74
1:B:697:ILE:CD1	1:B:732:ILE:HD13	2.12	0.74
1:C:709:ASN:HB2	2:J:130:ILE:HG23	1.68	0.74
2:M:12:PHE:CE1	2:M:72:MET:HG3	2.22	0.74
1:A:581:GLN:NE2	1:A:629:ASN:H	1.85	0.74
1:A:678:VAL:HG22	1:A:745:TYR:CE2	2.23	0.74
1:F:678:VAL:HG22	1:F:745:TYR:CE2	2.22	0.74
1:A:100:LEU:HD11	1:A:182:ILE:HG21	1.70	0.74
1:B:293:ILE:O	1:B:295:VAL:HG13	1.87	0.74
1:D:678:VAL:HG22	1:D:745:TYR:CE2	2.22	0.74
1:F:293:ILE:O	1:F:295:VAL:HG13	1.87	0.74
1:F:305:SER:OG	1:F:307:LEU:HD13	1.87	0.74
2:L:12:PHE:CE1	2:L:72:MET:HG3	2.23	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:148:GLU:HG3	1:A:149:THR:N	2.02	0.74
2:K:12:PHE:CE1	2:K:72:MET:HG3	2.23	0.74
1:A:187:SER:C	1:A:188:LEU:O	2.16	0.74
1:A:629:ASN:HD22	1:A:630:ARG:N	1.85	0.74
1:C:293:ILE:O	1:C:295:VAL:HG13	1.88	0.74
1:D:629:ASN:HD22	1:D:630:ARG:N	1.85	0.74
1:E:550:SER:HB3	1:E:553:GLN:CB	2.18	0.74
1:F:134:LYS:HB3	1:F:136:PRO:HD2	1.69	0.74
1:F:657:ILE:HG13	1:F:756:ILE:HD13	1.70	0.74
2:I:102:ALA:HB1	2:I:121:VAL:HG12	1.70	0.74
2:I:12:PHE:CE1	2:I:72:MET:HG3	2.23	0.74
2:J:48:LEU:HD12	2:J:51:MET:HE1	1.70	0.74
1:A:335:ALA:O	1:A:339:ILE:HG13	1.88	0.73
1:B:325:TYR:HB2	1:B:498:ALA:HB3	1.70	0.73
2:L:102:ALA:HB1	2:L:121:VAL:HG12	1.70	0.73
1:C:657:ILE:HG13	1:C:756:ILE:HD13	1.70	0.73
1:F:629:ASN:HD22	1:F:630:ARG:N	1.85	0.73
1:A:275:GLY:HA2	1:A:278:LYS:CE	2.17	0.73
1:C:100:LEU:HD11	1:C:182:ILE:HG21	1.69	0.73
1:E:305:SER:OG	1:E:307:LEU:HD13	1.87	0.73
1:E:657:ILE:HG13	1:E:756:ILE:HD13	1.70	0.73
2:K:48:LEU:HD12	2:K:51:MET:HE1	1.69	0.73
1:C:305:SER:OG	1:C:307:LEU:HD13	1.88	0.73
1:D:305:SER:OG	1:D:307:LEU:HD13	1.88	0.73
2:H:102:ALA:HB1	2:H:121:VAL:HG12	1.70	0.73
2:M:102:ALA:HB1	2:M:121:VAL:HG12	1.71	0.73
1:B:199:LEU:C	1:B:201:ASP:H	1.88	0.73
1:B:275:GLY:HA2	1:B:278:LYS:CE	2.16	0.73
1:B:581:GLN:NE2	1:B:629:ASN:H	1.85	0.73
1:D:409:ARG:CZ	1:D:413:LEU:HD21	2.19	0.73
1:E:409:ARG:CZ	1:E:413:LEU:HD21	2.19	0.73
1:F:409:ARG:CZ	1:F:413:LEU:HD21	2.19	0.73
1:A:134:LYS:HB3	1:A:136:PRO:HD2	1.69	0.73
1:B:678:VAL:HG22	1:B:745:TYR:CE2	2.24	0.73
1:C:629:ASN:HD22	1:C:630:ARG:N	1.86	0.73
1:D:581:GLN:NE2	1:D:629:ASN:H	1.87	0.73
1:D:302:LEU:HB2	1:D:602:PHE:HD1	1.54	0.73
1:E:189:ASP:C	1:E:191:GLU:H	1.91	0.73
1:F:550:SER:HB3	1:F:553:GLN:CB	2.19	0.73
1:A:108:ASP:O	1:A:155:ASN:HB2	1.89	0.73
1:B:550:SER:HB3	1:B:553:GLN:CB	2.19	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:409:ARG:CZ	1:A:413:LEU:HD21	2.19	0.72
1:B:305:SER:OG	1:B:307:LEU:HD13	1.88	0.72
1:B:497:LEU:CD1	1:B:556:MET:HG2	2.19	0.72
1:E:335:ALA:O	1:E:339:ILE:HG13	1.89	0.72
1:D:668:SER:HA	2:K:14:GLU:HG3	1.70	0.72
1:F:668:SER:HA	2:M:14:GLU:HG3	1.68	0.72
1:A:657:ILE:HG13	1:A:756:ILE:HD13	1.72	0.72
1:C:722:ILE:HD13	1:C:764:LEU:HD23	1.71	0.72
1:D:295:VAL:C	1:D:296:LEU:HD23	2.09	0.72
1:B:709:ASN:HB2	2:I:130:ILE:HG23	1.69	0.72
1:A:550:SER:HB3	1:A:553:GLN:CB	2.19	0.72
1:C:409:ARG:CZ	1:C:413:LEU:HD21	2.19	0.72
1:E:497:LEU:CD1	1:E:556:MET:HG2	2.19	0.72
1:C:295:VAL:C	1:C:296:LEU:HD23	2.10	0.72
1:C:657:ILE:HG13	1:C:756:ILE:CD1	2.20	0.72
1:E:629:ASN:HD22	1:E:630:ARG:N	1.85	0.72
2:J:102:ALA:HB1	2:J:121:VAL:HG12	1.71	0.72
1:D:540:ARG:NH2	2:K:87:GLU:OE1	2.22	0.72
1:B:77:ASP:O	1:B:81:GLN:HB2	1.89	0.72
1:C:122:GLU:CG	1:C:147:ARG:HB2	2.18	0.72
1:C:108:ASP:O	1:C:155:ASN:HB2	1.90	0.72
1:C:550:SER:HB3	1:C:553:GLN:CB	2.19	0.72
1:D:108:ASP:O	1:D:155:ASN:HB2	1.90	0.72
1:D:435:LEU:HG	1:D:446:ILE:HG22	1.71	0.72
1:F:77:ASP:O	1:F:81:GLN:HB2	1.90	0.72
2:M:48:LEU:HD12	2:M:51:MET:HE1	1.71	0.72
1:A:295:VAL:C	1:A:296:LEU:HD23	2.10	0.72
1:A:305:SER:OG	1:A:307:LEU:HD13	1.88	0.72
1:B:629:ASN:HD22	1:B:630:ARG:N	1.86	0.72
1:C:581:GLN:NE2	1:C:629:ASN:H	1.87	0.72
1:C:77:ASP:O	1:C:81:GLN:HB2	1.90	0.72
1:F:497:LEU:CD1	1:F:556:MET:HG2	2.19	0.72
1:B:108:ASP:O	1:B:155:ASN:HB2	1.90	0.72
1:C:161:ILE:HA	1:C:167:LYS:HD2	1.71	0.72
1:D:550:SER:HB3	1:D:553:GLN:CB	2.19	0.72
1:D:657:ILE:HG13	1:D:756:ILE:HD13	1.72	0.72
1:E:581:GLN:NE2	1:E:629:ASN:H	1.87	0.72
2:J:69:LEU:HD12	2:J:69:LEU:O	1.90	0.72
1:A:160:ALA:O	1:A:161:ILE:HG13	1.88	0.72
1:A:722:ILE:HD13	1:A:764:LEU:HD23	1.72	0.72
1:A:767:GLN:HG2	1:A:768:LYS:HG2	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:65:PHE:HD1	2:H:66:PRO:HD3	1.53	0.72
1:A:302:LEU:HB2	1:A:602:PHE:HD1	1.54	0.72
1:A:635:ILE:H	1:A:635:ILE:HD12	1.54	0.72
1:C:297:LYS:HG2	1:C:603:ILE:HG12	1.71	0.72
1:F:189:ASP:C	1:F:191:GLU:H	1.92	0.72
1:F:295:VAL:C	1:F:296:LEU:HD23	2.10	0.72
1:F:540:ARG:NH2	2:M:87:GLU:OE1	2.23	0.72
1:F:581:GLN:NE2	1:F:629:ASN:H	1.87	0.72
2:I:65:PHE:HD1	2:I:66:PRO:HD3	1.54	0.72
1:A:77:ASP:O	1:A:81:GLN:HB2	1.89	0.71
1:B:122:GLU:CG	1:B:147:ARG:HB2	2.18	0.71
1:C:302:LEU:HB2	1:C:602:PHE:HD1	1.55	0.71
1:D:697:ILE:CD1	1:D:732:ILE:HD13	2.13	0.71
1:D:77:ASP:O	1:D:81:GLN:HB2	1.90	0.71
1:E:77:ASP:O	1:E:81:GLN:HB2	1.90	0.71
1:A:767:GLN:HG2	1:A:768:LYS:N	2.04	0.71
1:E:108:ASP:O	1:E:155:ASN:HB2	1.89	0.71
1:A:122:GLU:CG	1:A:147:ARG:HB2	2.18	0.71
1:A:297:LYS:HG2	1:A:603:ILE:HG12	1.71	0.71
1:B:409:ARG:CZ	1:B:413:LEU:HD21	2.19	0.71
1:C:557:LEU:HD21	1:C:575:VAL:HG12	1.72	0.71
1:D:722:ILE:HD13	1:D:764:LEU:HD23	1.72	0.71
1:F:176:GLY:HA2	1:F:179:LEU:HD21	1.72	0.71
1:F:657:ILE:HG13	1:F:756:ILE:CD1	2.20	0.71
2:L:83:GLU:O	2:L:87:GLU:HG3	1.90	0.71
1:A:684:ASP:C	1:A:686:ASP:H	1.94	0.71
1:D:161:ILE:HA	1:D:167:LYS:HD2	1.71	0.71
1:D:657:ILE:HG13	1:D:756:ILE:CD1	2.20	0.71
1:F:108:ASP:O	1:F:155:ASN:HB2	1.90	0.71
1:F:722:ILE:HD13	1:F:764:LEU:HD23	1.72	0.71
2:K:102:ALA:HB1	2:K:121:VAL:HG12	1.71	0.71
1:A:497:LEU:CD1	1:A:556:MET:HG2	2.20	0.71
1:D:173:ILE:HG13	1:D:242:SER:CB	2.20	0.71
1:E:462:ILE:HG12	1:E:463:THR:N	2.06	0.71
1:E:557:LEU:HD21	1:E:575:VAL:HG12	1.71	0.71
1:E:722:ILE:HD13	1:E:764:LEU:HD23	1.72	0.71
1:F:351:HIS:HB2	1:F:386:GLU:HG2	1.73	0.71
1:A:351:HIS:HB2	1:A:386:GLU:HG2	1.72	0.71
1:D:176:GLY:HA2	1:D:179:LEU:HD21	1.73	0.71
1:E:351:HIS:HB2	1:E:386:GLU:HG2	1.73	0.71
1:F:335:ALA:O	1:F:339:ILE:HG13	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:715:GLU:HG3	1:F:767:GLN:NE2	2.06	0.71
1:A:780:LEU:HD12	1:A:789:ASN:OD1	1.91	0.71
1:B:295:VAL:C	1:B:296:LEU:HD23	2.10	0.71
1:C:472:ARG:NH1	1:C:472:ARG:HB3	2.06	0.71
1:F:462:ILE:HG12	1:F:463:THR:N	2.06	0.71
2:M:65:PHE:HD1	2:M:66:PRO:HD3	1.54	0.71
1:A:176:GLY:HA2	1:A:179:LEU:HD21	1.72	0.71
1:A:697:ILE:CD1	1:A:732:ILE:HD13	2.14	0.71
1:B:351:HIS:HB2	1:B:386:GLU:HG2	1.73	0.71
1:C:462:ILE:HG12	1:C:463:THR:N	2.06	0.71
1:D:497:LEU:CD1	1:D:556:MET:HG2	2.20	0.71
1:E:123:GLU:HG2	1:E:124:GLU:N	2.04	0.71
1:E:443:GLU:OE2	1:E:458:LYS:HG2	1.91	0.71
1:E:657:ILE:HG13	1:E:756:ILE:CD1	2.20	0.71
2:J:65:PHE:HD1	2:J:66:PRO:HD3	1.53	0.71
1:C:540:ARG:NH2	2:J:87:GLU:OE1	2.23	0.71
2:L:69:LEU:O	2:L:69:LEU:HD12	1.91	0.71
1:D:462:ILE:HG12	1:D:463:THR:N	2.06	0.71
1:D:719:LYS:HA	1:D:722:ILE:HD12	1.72	0.71
2:I:69:LEU:O	2:I:69:LEU:HD12	1.91	0.71
1:B:335:ALA:O	1:B:339:ILE:HG13	1.90	0.71
1:C:335:ALA:O	1:C:339:ILE:HG13	1.90	0.71
1:D:557:LEU:HD21	1:D:575:VAL:HG12	1.71	0.71
1:E:297:LYS:HG2	1:E:603:ILE:HG12	1.71	0.71
1:A:159:TYR:CD1	1:A:159:TYR:N	2.58	0.70
1:B:176:GLY:HA2	1:B:179:LEU:HD21	1.73	0.70
1:B:557:LEU:HD21	1:B:575:VAL:HG12	1.71	0.70
1:B:657:ILE:HG13	1:B:756:ILE:HD13	1.72	0.70
1:D:423:LYS:HG3	1:D:424:LYS:N	2.06	0.70
2:H:83:GLU:O	2:H:87:GLU:HG3	1.91	0.70
2:K:65:PHE:HD1	2:K:66:PRO:HD3	1.53	0.70
1:A:540:ARG:NH2	2:H:87:GLU:OE1	2.24	0.70
1:C:217:LYS:NZ	1:C:236:GLU:HB2	2.06	0.70
1:B:540:ARG:NH2	2:I:87:GLU:OE1	2.23	0.70
2:M:58:ASP:HB3	2:M:62:THR:CG2	2.21	0.70
1:A:173:ILE:HG13	1:A:242:SER:CB	2.21	0.70
1:B:462:ILE:HG12	1:B:463:THR:N	2.05	0.70
1:B:722:ILE:HD13	1:B:764:LEU:HD23	1.73	0.70
1:C:780:LEU:HD12	1:C:789:ASN:OD1	1.90	0.70
1:C:776:LEU:HD11	1:C:793:PHE:HE1	1.56	0.70
1:D:351:HIS:HB2	1:D:386:GLU:HG2	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:684:ASP:C	1:D:686:ASP:H	1.94	0.70
1:D:780:LEU:HD12	1:D:789:ASN:OD1	1.91	0.70
1:E:295:VAL:C	1:E:296:LEU:HD23	2.11	0.70
1:E:302:LEU:HB2	1:E:602:PHE:HD1	1.54	0.70
2:L:65:PHE:HD1	2:L:66:PRO:HD3	1.53	0.70
1:C:351:HIS:HB2	1:C:386:GLU:HG2	1.73	0.70
1:F:217:LYS:NZ	1:F:236:GLU:HB2	2.06	0.70
1:F:423:LYS:HG3	1:F:424:LYS:N	2.07	0.70
1:F:472:ARG:NH1	1:F:472:ARG:HB3	2.06	0.70
2:L:48:LEU:HD12	2:L:51:MET:HE1	1.72	0.70
1:A:423:LYS:HG3	1:A:424:LYS:N	2.07	0.70
1:B:161:ILE:HA	1:B:167:LYS:HD2	1.73	0.70
1:B:302:LEU:HB2	1:B:602:PHE:HD1	1.54	0.70
1:B:684:ASP:C	1:B:686:ASP:H	1.94	0.70
1:B:657:ILE:HG13	1:B:756:ILE:CD1	2.21	0.70
1:C:189:ASP:C	1:C:191:GLU:H	1.93	0.70
1:F:161:ILE:HA	1:F:167:LYS:HD2	1.72	0.70
1:F:173:ILE:HG13	1:F:242:SER:CB	2.21	0.70
2:I:83:GLU:O	2:I:87:GLU:HG3	1.91	0.70
1:A:462:ILE:HG12	1:A:463:THR:N	2.06	0.70
1:B:472:ARG:HB3	1:B:472:ARG:NH1	2.05	0.70
1:C:435:LEU:HG	1:C:446:ILE:HG22	1.72	0.70
1:D:189:ASP:C	1:D:191:GLU:H	1.94	0.70
1:E:176:GLY:HA2	1:E:179:LEU:HD21	1.73	0.70
1:B:297:LYS:HG2	1:B:603:ILE:HG12	1.72	0.70
1:C:423:LYS:HG3	1:C:424:LYS:N	2.06	0.70
1:D:345:THR:HG22	1:D:490:ALA:O	1.92	0.70
1:D:358:GLY:H	1:D:418:ILE:HG22	1.57	0.70
2:L:58:ASP:HB3	2:L:62:THR:CG2	2.22	0.70
1:A:657:ILE:HG13	1:A:756:ILE:CD1	2.21	0.70
1:B:719:LYS:HA	1:B:722:ILE:HD12	1.74	0.70
1:B:776:LEU:HD11	1:B:793:PHE:HE1	1.56	0.70
1:C:123:GLU:HG2	1:C:124:GLU:N	2.03	0.70
1:C:279:ILE:O	1:C:283:LEU:HD13	1.92	0.70
1:D:148:GLU:HG3	1:D:149:THR:N	2.06	0.70
1:D:776:LEU:HD11	1:D:793:PHE:HE1	1.55	0.70
1:E:780:LEU:HD12	1:E:789:ASN:OD1	1.91	0.70
1:A:776:LEU:HD11	1:A:793:PHE:HE1	1.56	0.70
1:B:435:LEU:HG	1:B:446:ILE:HG22	1.72	0.70
1:B:615:ILE:HG23	1:B:619:ILE:HD12	1.74	0.70
1:C:187:SER:C	1:C:188:LEU:O	2.22	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:567:THR:CG2	1:C:568:GLY:N	2.55	0.70
1:F:780:LEU:HD12	1:F:789:ASN:OD1	1.91	0.70
2:J:58:ASP:HB3	2:J:62:THR:CG2	2.22	0.70
1:E:540:ARG:NH2	2:L:87:GLU:OE1	2.25	0.70
2:M:10:ALA:O	2:M:14:GLU:HB2	1.92	0.70
1:A:443:GLU:OE2	1:A:458:LYS:HG2	1.91	0.70
1:A:472:ARG:NH1	1:A:472:ARG:HB3	2.06	0.70
1:B:715:GLU:HG3	1:B:767:GLN:HE21	1.54	0.70
1:C:472:ARG:HH11	1:C:472:ARG:HB3	1.57	0.70
1:D:335:ALA:O	1:D:339:ILE:HG13	1.91	0.70
1:D:472:ARG:HB3	1:D:472:ARG:HH11	1.57	0.70
1:E:173:ILE:HG13	1:E:242:SER:CB	2.20	0.70
1:E:225:ILE:HG12	1:E:229:PHE:CE2	2.27	0.70
1:F:297:LYS:HG2	1:F:603:ILE:HG12	1.71	0.70
1:A:557:LEU:HD21	1:A:575:VAL:HG12	1.73	0.69
1:B:217:LYS:NZ	1:B:236:GLU:HB2	2.07	0.69
2:J:83:GLU:O	2:J:87:GLU:HG3	1.92	0.69
2:K:83:GLU:O	2:K:87:GLU:HG3	1.92	0.69
1:A:161:ILE:HA	1:A:167:LYS:HD2	1.72	0.69
1:A:450:ASN:O	1:A:452:GLU:N	2.24	0.69
1:C:684:ASP:C	1:C:686:ASP:H	1.94	0.69
1:D:472:ARG:HB3	1:D:472:ARG:NH1	2.06	0.69
1:E:794:GLN:O	1:E:797:ILE:HG12	1.93	0.69
1:F:302:LEU:HB2	1:F:602:PHE:HD1	1.56	0.69
1:F:794:GLN:O	1:F:797:ILE:HG12	1.92	0.69
2:K:10:ALA:O	2:K:14:GLU:HB2	1.92	0.69
1:A:358:GLY:H	1:A:418:ILE:HG22	1.58	0.69
1:C:173:ILE:HG13	1:C:242:SER:CB	2.21	0.69
1:E:345:THR:HG22	1:E:490:ALA:O	1.93	0.69
1:E:719:LYS:HA	1:E:722:ILE:HD12	1.75	0.69
1:A:794:GLN:O	1:A:797:ILE:HG12	1.92	0.69
1:B:187:SER:C	1:B:188:LEU:O	2.23	0.69
1:B:302:LEU:HD22	1:B:602:PHE:CE1	2.28	0.69
1:C:719:LYS:HA	1:C:722:ILE:HD12	1.74	0.69
1:C:794:GLN:O	1:C:797:ILE:HG12	1.92	0.69
1:D:217:LYS:NZ	1:D:236:GLU:HB2	2.08	0.69
1:E:318:ILE:HD12	1:E:318:ILE:N	2.08	0.69
1:E:435:LEU:HG	1:E:446:ILE:HG22	1.73	0.69
1:E:472:ARG:HB3	1:E:472:ARG:NH1	2.07	0.69
2:M:69:LEU:O	2:M:69:LEU:HD12	1.91	0.69
1:A:217:LYS:NZ	1:A:236:GLU:HB2	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:472:ARG:HH11	1:A:472:ARG:HB3	1.57	0.69
1:B:358:GLY:H	1:B:418:ILE:HG22	1.57	0.69
1:C:358:GLY:H	1:C:418:ILE:HG22	1.57	0.69
1:C:615:ILE:HG23	1:C:619:ILE:HD12	1.74	0.69
1:E:423:LYS:HG3	1:E:424:LYS:N	2.07	0.69
2:K:58:ASP:HB3	2:K:62:THR:CG2	2.21	0.69
1:B:225:ILE:HG12	1:B:229:PHE:CE2	2.27	0.69
1:B:173:ILE:HG13	1:B:242:SER:CB	2.21	0.69
1:B:794:GLN:O	1:B:797:ILE:HG12	1.93	0.69
1:C:176:GLY:HA2	1:C:179:LEU:HD21	1.73	0.69
1:D:297:LYS:HG2	1:D:603:ILE:HG12	1.72	0.69
1:E:184:LYS:HE3	1:E:191:GLU:HB2	1.75	0.69
1:E:217:LYS:NZ	1:E:236:GLU:HB2	2.07	0.69
1:E:302:LEU:HD22	1:E:602:PHE:CE1	2.27	0.69
1:F:187:SER:C	1:F:188:LEU:O	2.23	0.69
1:F:615:ILE:HG23	1:F:619:ILE:HD12	1.75	0.69
1:F:776:LEU:HD11	1:F:793:PHE:HE1	1.56	0.69
2:H:69:LEU:O	2:H:69:LEU:HD12	1.92	0.69
2:K:69:LEU:O	2:K:69:LEU:HD12	1.92	0.69
1:A:123:GLU:HG2	1:A:124:GLU:N	2.04	0.69
1:B:345:THR:HG22	1:B:490:ALA:O	1.93	0.69
1:B:423:LYS:HG3	1:B:424:LYS:N	2.07	0.69
1:C:443:GLU:OE2	1:C:458:LYS:HG2	1.92	0.69
1:C:497:LEU:CD1	1:C:556:MET:HG2	2.20	0.69
1:A:615:ILE:HG23	1:A:619:ILE:HD12	1.74	0.69
1:B:635:ILE:HD12	1:B:635:ILE:N	2.05	0.69
1:B:764:LEU:C	1:B:766:HIS:H	1.95	0.69
1:D:302:LEU:HD22	1:D:602:PHE:CE1	2.28	0.69
2:L:10:ALA:O	2:L:14:GLU:HB2	1.92	0.69
1:A:302:LEU:HD22	1:A:602:PHE:CE1	2.28	0.69
1:B:189:ASP:C	1:B:191:GLU:H	1.95	0.69
1:B:214:PHE:HB3	1:B:218:LEU:HB3	1.75	0.69
1:B:443:GLU:OE2	1:B:458:LYS:HG2	1.92	0.69
1:B:780:LEU:HD12	1:B:789:ASN:OD1	1.91	0.69
1:E:776:LEU:HD11	1:E:793:PHE:HE1	1.56	0.69
1:F:443:GLU:OE2	1:F:458:LYS:HG2	1.92	0.69
2:K:121:VAL:C	2:K:123:GLU:N	2.46	0.69
2:K:36:MET:HE3	2:K:43:PRO:HG3	1.73	0.69
1:A:719:LYS:HA	1:A:722:ILE:HD12	1.75	0.69
1:B:567:THR:CG2	1:B:568:GLY:N	2.56	0.69
1:C:632:TYR:O	1:C:633:ASN:HB2	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:107:THR:HG21	1:F:115:LYS:CD	2.23	0.69
1:A:639:ASN:ND2	1:A:639:ASN:N	2.32	0.69
1:B:472:ARG:HB3	1:B:472:ARG:HH11	1.57	0.69
1:E:615:ILE:HG23	1:E:619:ILE:HD12	1.73	0.69
1:E:684:ASP:C	1:E:686:ASP:H	1.94	0.69
1:F:225:ILE:HG12	1:F:229:PHE:CE2	2.28	0.69
1:F:472:ARG:HH11	1:F:472:ARG:HB3	1.57	0.69
1:C:107:THR:HG21	1:C:115:LYS:CD	2.23	0.68
1:D:450:ASN:O	1:D:452:GLU:N	2.23	0.68
1:F:175:LYS:HB2	1:F:175:LYS:NZ	2.09	0.68
1:F:345:THR:HG22	1:F:490:ALA:O	1.92	0.68
2:I:10:ALA:O	2:I:14:GLU:HB2	1.92	0.68
2:K:116:LEU:HD13	2:K:121:VAL:HG22	1.75	0.68
1:A:142:VAL:HG22	1:A:154:ILE:HG23	1.75	0.68
1:A:372:LYS:HG3	1:A:373:LYS:N	2.08	0.68
1:B:142:VAL:HG22	1:B:154:ILE:HG23	1.75	0.68
1:D:794:GLN:O	1:D:797:ILE:HG12	1.93	0.68
1:F:719:LYS:HA	1:F:722:ILE:HD12	1.75	0.68
2:I:121:VAL:C	2:I:123:GLU:N	2.45	0.68
1:B:107:THR:HG21	1:B:115:LYS:CD	2.23	0.68
1:D:184:LYS:HE3	1:D:191:GLU:HB2	1.76	0.68
1:E:161:ILE:HA	1:E:167:LYS:HD2	1.74	0.68
1:E:358:GLY:H	1:E:418:ILE:HG22	1.57	0.68
1:F:279:ILE:O	1:F:283:LEU:HD13	1.93	0.68
1:A:175:LYS:HB2	1:A:175:LYS:NZ	2.09	0.68
1:A:184:LYS:HE3	1:A:191:GLU:HB2	1.75	0.68
1:D:175:LYS:HB2	1:D:175:LYS:NZ	2.09	0.68
1:D:372:LYS:HG3	1:D:373:LYS:N	2.09	0.68
1:E:742:ALA:HB1	1:E:744:GLU:OE1	1.94	0.68
1:F:184:LYS:HE3	1:F:191:GLU:HB2	1.75	0.68
1:F:372:LYS:HG3	1:F:373:LYS:N	2.08	0.68
1:F:684:ASP:C	1:F:686:ASP:H	1.94	0.68
2:J:116:LEU:HD13	2:J:121:VAL:HG22	1.76	0.68
2:J:12:PHE:HE1	2:J:72:MET:HG3	1.57	0.68
2:K:106:ARG:O	2:K:110:THR:HG23	1.94	0.68
1:B:742:ALA:HB1	1:B:744:GLU:OE1	1.94	0.68
1:D:122:GLU:HG3	1:D:147:ARG:CB	2.19	0.68
1:E:107:THR:HG21	1:E:115:LYS:CD	2.23	0.68
1:E:148:GLU:HG3	1:E:149:THR:N	2.07	0.68
1:F:767:GLN:HG2	1:F:768:LYS:HG2	1.75	0.68
2:H:12:PHE:HE1	2:H:72:MET:HG3	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:12:PHE:HE1	2:M:72:MET:HG3	1.58	0.68
1:A:107:THR:HG21	1:A:115:LYS:CD	2.24	0.68
1:C:372:LYS:HG3	1:C:373:LYS:N	2.09	0.68
1:D:217:LYS:HZ2	1:D:236:GLU:HB2	1.57	0.68
1:D:214:PHE:HB3	1:D:218:LEU:HB3	1.74	0.68
1:D:742:ALA:HB1	1:D:744:GLU:OE1	1.94	0.68
2:J:106:ARG:O	2:J:110:THR:HG23	1.94	0.68
2:J:121:VAL:C	2:J:123:GLU:N	2.46	0.68
2:M:106:ARG:O	2:M:110:THR:HG23	1.94	0.68
1:B:279:ILE:O	1:B:283:LEU:HD13	1.93	0.68
1:C:225:ILE:HG12	1:C:229:PHE:CE2	2.27	0.68
1:D:318:ILE:N	1:D:318:ILE:HD12	2.08	0.68
1:D:765:THR:HA	1:D:769:SER:HB2	1.74	0.68
1:E:214:PHE:HB3	1:E:218:LEU:HB3	1.75	0.68
1:B:318:ILE:N	1:B:318:ILE:HD12	2.07	0.68
1:C:217:LYS:HZ2	1:C:236:GLU:HB2	1.59	0.68
1:D:443:GLU:OE2	1:D:458:LYS:HG2	1.92	0.68
1:E:472:ARG:HB3	1:E:472:ARG:HH11	1.58	0.68
1:F:358:GLY:H	1:F:418:ILE:HG22	1.58	0.68
2:J:10:ALA:O	2:J:14:GLU:HB2	1.93	0.68
2:L:49:GLN:N	2:L:49:GLN:NE2	2.42	0.68
1:A:70:GLU:HB2	1:A:107:THR:HG22	1.76	0.68
1:E:372:LYS:HG3	1:E:373:LYS:N	2.08	0.68
1:E:722:ILE:HG23	1:E:760:VAL:CG1	2.24	0.68
1:F:214:PHE:HB3	1:F:218:LEU:HB3	1.74	0.68
2:L:116:LEU:HD13	2:L:121:VAL:HG22	1.76	0.68
2:M:49:GLN:N	2:M:49:GLN:NE2	2.42	0.68
1:A:279:ILE:O	1:A:283:LEU:HD13	1.93	0.68
1:A:70:GLU:HB3	1:A:107:THR:HA	1.76	0.68
1:C:70:GLU:HB3	1:C:107:THR:HA	1.76	0.68
1:C:214:PHE:HB3	1:C:218:LEU:HB3	1.74	0.68
1:D:186:LYS:HE3	1:D:234:LEU:CD1	2.24	0.68
1:D:70:GLU:HB3	1:D:107:THR:HA	1.76	0.68
1:E:279:ILE:O	1:E:283:LEU:HD13	1.93	0.68
2:H:10:ALA:O	2:H:14:GLU:HB2	1.94	0.68
2:H:58:ASP:HB3	2:H:62:THR:CG2	2.22	0.68
2:J:49:GLN:NE2	2:J:49:GLN:N	2.42	0.68
1:B:70:GLU:HB2	1:B:107:THR:HG22	1.77	0.67
1:F:478:ALA:HB1	1:F:486:LYS:O	1.94	0.67
1:F:557:LEU:HD21	1:F:575:VAL:HG12	1.74	0.67
2:M:83:GLU:O	2:M:87:GLU:HG3	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:450:ASN:O	1:C:452:GLU:N	2.22	0.67
2:H:116:LEU:HD13	2:H:121:VAL:HG22	1.77	0.67
2:I:116:LEU:HD13	2:I:121:VAL:HG22	1.76	0.67
1:C:527:LYS:HG3	2:J:145:MET:HA	1.77	0.67
2:K:49:GLN:NE2	2:K:49:GLN:N	2.43	0.67
2:L:63:ILE:HG13	2:L:67:GLU:CB	2.23	0.67
1:A:345:THR:HG22	1:A:490:ALA:O	1.93	0.67
1:C:767:GLN:HG2	1:C:768:LYS:HG2	1.76	0.67
2:H:106:ARG:O	2:H:110:THR:HG23	1.93	0.67
1:B:401:ILE:HD13	1:B:485:LEU:O	1.94	0.67
1:B:767:GLN:HG2	1:B:768:LYS:H	1.56	0.67
1:D:123:GLU:HG2	1:D:124:GLU:N	2.04	0.67
1:E:217:LYS:HZ2	1:E:236:GLU:HB2	1.59	0.67
2:I:106:ARG:O	2:I:110:THR:HG23	1.94	0.67
2:I:49:GLN:N	2:I:49:GLN:NE2	2.42	0.67
1:E:257:LEU:HG	1:E:257:LEU:O	1.95	0.67
1:F:142:VAL:HG22	1:F:154:ILE:HG23	1.74	0.67
1:F:639:ASN:ND2	1:F:639:ASN:N	2.32	0.67
1:A:214:PHE:HB3	1:A:218:LEU:HB3	1.75	0.67
1:A:401:ILE:HD13	1:A:485:LEU:O	1.95	0.67
1:B:493:ASP:OD2	1:B:577:HIS:CE1	2.48	0.67
1:C:175:LYS:NZ	1:C:175:LYS:HB2	2.09	0.67
1:C:197:LYS:HE2	1:C:263:ASP:HB3	1.76	0.67
1:D:615:ILE:HD12	1:D:645:TRP:HH2	1.60	0.67
1:E:70:GLU:HB2	1:E:107:THR:HG22	1.76	0.67
1:F:765:THR:HA	1:F:769:SER:HB2	1.77	0.67
2:I:12:PHE:HE1	2:I:72:MET:HG3	1.59	0.67
2:L:106:ARG:O	2:L:110:THR:HG23	1.94	0.67
1:A:764:LEU:C	1:A:766:HIS:H	1.96	0.67
1:B:186:LYS:HA	1:B:190:PRO:HD3	1.75	0.67
1:C:142:VAL:HG22	1:C:154:ILE:HG23	1.76	0.67
1:C:179:LEU:N	1:C:179:LEU:HD23	2.10	0.67
1:C:318:ILE:HD12	1:C:318:ILE:N	2.07	0.67
1:C:345:THR:HG22	1:C:490:ALA:O	1.93	0.67
1:D:179:LEU:HD23	1:D:179:LEU:N	2.10	0.67
2:H:49:GLN:NE2	2:H:49:GLN:N	2.43	0.67
1:A:742:ALA:HB1	1:A:744:GLU:OE1	1.95	0.67
1:C:337:ASN:ND2	1:C:412:GLU:OE2	2.28	0.67
1:D:107:THR:HG21	1:D:115:LYS:CD	2.24	0.67
1:D:401:ILE:HD13	1:D:485:LEU:O	1.94	0.67
1:E:175:LYS:NZ	1:E:175:LYS:HB2	2.09	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:493:ASP:OD2	1:E:577:HIS:CE1	2.48	0.67
1:F:302:LEU:HD22	1:F:602:PHE:CE1	2.28	0.67
1:F:493:ASP:OD2	1:F:577:HIS:CE1	2.47	0.67
2:H:121:VAL:C	2:H:123:GLU:N	2.46	0.67
1:C:742:ALA:HB1	1:C:744:GLU:OE1	1.95	0.67
1:E:187:SER:C	1:E:188:LEU:O	2.27	0.67
1:E:635:ILE:H	1:E:635:ILE:HD12	1.59	0.67
1:D:197:LYS:HE2	1:D:263:ASP:HB3	1.77	0.67
1:D:478:ALA:HB1	1:D:486:LYS:O	1.95	0.67
1:E:142:VAL:HG22	1:E:154:ILE:HG23	1.76	0.67
1:F:186:LYS:HE3	1:F:234:LEU:CD1	2.24	0.67
1:D:527:LYS:HG3	2:K:145:MET:HA	1.77	0.67
2:M:116:LEU:HD13	2:M:121:VAL:HG22	1.77	0.67
1:B:175:LYS:HB2	1:B:175:LYS:NZ	2.10	0.66
1:B:194:ASN:HA	1:B:197:LYS:HB2	1.77	0.66
1:C:401:ILE:HD13	1:C:485:LEU:O	1.94	0.66
2:I:58:ASP:HB3	2:I:62:THR:CG2	2.22	0.66
2:M:70:THR:HG22	2:M:70:THR:O	1.94	0.66
1:A:493:ASP:OD2	1:A:577:HIS:CE1	2.47	0.66
1:C:302:LEU:HD22	1:C:602:PHE:CE1	2.29	0.66
1:E:434:LEU:CD1	1:E:435:LEU:N	2.59	0.66
1:E:401:ILE:HD13	1:E:485:LEU:O	1.95	0.66
1:F:179:LEU:HD23	1:F:179:LEU:N	2.10	0.66
1:A:527:LYS:HG3	2:H:145:MET:HA	1.77	0.66
2:H:70:THR:HG22	2:H:70:THR:O	1.95	0.66
2:K:70:THR:O	2:K:70:THR:HG22	1.95	0.66
1:B:257:LEU:HG	1:B:257:LEU:O	1.95	0.66
1:B:450:ASN:O	1:B:452:GLU:N	2.23	0.66
1:C:639:ASN:N	1:C:639:ASN:ND2	2.32	0.66
1:E:478:ALA:HB1	1:E:486:LYS:O	1.95	0.66
1:F:401:ILE:HD13	1:F:485:LEU:O	1.94	0.66
1:F:456:LYS:HB2	1:F:470:ASN:HA	1.77	0.66
2:H:114:GLU:HA	2:H:114:GLU:OE2	1.95	0.66
1:B:179:LEU:HD23	1:B:179:LEU:N	2.11	0.66
1:D:639:ASN:ND2	1:D:639:ASN:N	2.32	0.66
1:E:710:HIS:C	1:E:712:PHE:H	1.99	0.66
1:F:364:ILE:O	1:F:477:MET:HG2	1.95	0.66
2:J:9:ILE:HD12	2:J:69:LEU:HD21	1.77	0.66
1:A:197:LYS:HE2	1:A:263:ASP:HB3	1.76	0.66
1:B:372:LYS:HG3	1:B:373:LYS:N	2.09	0.66
1:D:279:ILE:O	1:D:283:LEU:HD13	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:337:ASN:ND2	1:D:412:GLU:OE2	2.29	0.66
1:A:194:ASN:HA	1:A:197:LYS:HB2	1.78	0.66
1:A:186:LYS:HE3	1:A:234:LEU:CD1	2.24	0.66
1:A:478:ALA:HB1	1:A:486:LYS:O	1.96	0.66
1:B:364:ILE:O	1:B:477:MET:HG2	1.95	0.66
1:E:122:GLU:HB2	1:E:147:ARG:HG3	1.78	0.66
1:F:123:GLU:HG2	1:F:124:GLU:N	2.05	0.66
2:K:63:ILE:HG13	2:K:67:GLU:CB	2.23	0.66
2:L:12:PHE:HE1	2:L:72:MET:HG3	1.59	0.66
1:B:315:PHE:HA	1:B:318:ILE:HD13	1.78	0.66
1:C:478:ALA:HB1	1:C:486:LYS:O	1.96	0.66
1:D:225:ILE:HG12	1:D:229:PHE:CE2	2.27	0.66
1:D:299:GLU:O	1:D:299:GLU:HG2	1.96	0.66
1:E:376:GLN:O	1:E:380:VAL:HG23	1.96	0.66
1:E:456:LYS:HB2	1:E:470:ASN:HA	1.78	0.66
2:K:49:GLN:HE21	2:K:49:GLN:N	1.94	0.66
1:A:112:VAL:C	1:A:114:HIS:H	1.99	0.66
1:B:197:LYS:HD3	1:B:263:ASP:OD1	1.96	0.66
1:C:456:LYS:HB2	1:C:470:ASN:HA	1.78	0.66
1:C:364:ILE:O	1:C:477:MET:HG2	1.96	0.66
1:D:364:ILE:O	1:D:477:MET:HG2	1.95	0.66
1:F:337:ASN:ND2	1:F:412:GLU:OE2	2.29	0.66
1:F:710:HIS:C	1:F:712:PHE:H	1.99	0.66
1:B:527:LYS:HG3	2:I:145:MET:HA	1.78	0.66
2:J:114:GLU:HA	2:J:114:GLU:OE2	1.96	0.66
2:K:9:ILE:HD12	2:K:69:LEU:HD21	1.78	0.66
1:B:197:LYS:HE2	1:B:263:ASP:HB3	1.77	0.66
1:C:197:LYS:HD3	1:C:263:ASP:OD1	1.96	0.66
1:C:257:LEU:O	1:C:257:LEU:HG	1.94	0.66
1:C:70:GLU:HB2	1:C:107:THR:HG22	1.77	0.66
1:D:615:ILE:HG23	1:D:619:ILE:HD12	1.75	0.66
1:E:301:ALA:C	1:E:303:LYS:H	1.99	0.66
1:E:315:PHE:HA	1:E:318:ILE:HD13	1.78	0.66
2:L:49:GLN:N	2:L:49:GLN:HE21	1.94	0.66
1:A:301:ALA:C	1:A:303:LYS:H	1.99	0.66
1:B:299:GLU:HG2	1:B:299:GLU:O	1.95	0.66
1:B:337:ASN:ND2	1:B:412:GLU:OE2	2.29	0.66
1:E:639:ASN:ND2	1:E:639:ASN:N	2.32	0.66
2:J:49:GLN:HE21	2:J:49:GLN:N	1.94	0.66
2:J:70:THR:O	2:J:70:THR:HG22	1.95	0.66
2:L:114:GLU:OE2	2:L:114:GLU:HA	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:70:THR:O	2:L:70:THR:HG22	1.94	0.66
1:A:315:PHE:HA	1:A:318:ILE:HD13	1.78	0.65
1:A:364:ILE:O	1:A:477:MET:HG2	1.96	0.65
1:B:767:GLN:HG2	1:B:768:LYS:HG2	1.78	0.65
1:C:112:VAL:C	1:C:114:HIS:H	2.00	0.65
1:C:189:ASP:HB3	1:C:190:PRO:HD2	1.79	0.65
1:D:142:VAL:HG22	1:D:154:ILE:HG23	1.77	0.65
1:E:364:ILE:O	1:E:477:MET:HG2	1.95	0.65
2:I:70:THR:HG22	2:I:70:THR:O	1.94	0.65
2:M:114:GLU:HA	2:M:114:GLU:OE2	1.97	0.65
1:A:217:LYS:HZ2	1:A:236:GLU:HB2	1.60	0.65
1:A:299:GLU:HG2	1:A:299:GLU:O	1.96	0.65
1:B:131:ARG:HG3	1:B:243:LEU:HD22	1.78	0.65
1:C:493:ASP:OD2	1:C:577:HIS:CE1	2.48	0.65
1:D:112:VAL:C	1:D:114:HIS:H	2.00	0.65
1:E:197:LYS:HD3	1:E:263:ASP:OD1	1.96	0.65
1:E:678:VAL:HG22	1:E:745:TYR:HE2	1.60	0.65
1:F:315:PHE:HA	1:F:318:ILE:HD13	1.78	0.65
1:F:615:ILE:HD12	1:F:645:TRP:HH2	1.62	0.65
1:F:742:ALA:HB1	1:F:744:GLU:OE1	1.95	0.65
2:I:114:GLU:HA	2:I:114:GLU:OE2	1.96	0.65
1:E:527:LYS:HG3	2:L:145:MET:HA	1.78	0.65
1:A:179:LEU:HD23	1:A:179:LEU:N	2.10	0.65
1:A:257:LEU:O	1:A:257:LEU:HG	1.95	0.65
1:A:79:ILE:O	1:A:81:GLN:N	2.29	0.65
1:B:555:GLN:HG3	1:B:556:MET:N	2.11	0.65
1:C:710:HIS:C	1:C:712:PHE:H	1.99	0.65
1:C:79:ILE:O	1:C:81:GLN:N	2.30	0.65
1:D:493:ASP:OD2	1:D:577:HIS:CE1	2.48	0.65
1:E:179:LEU:N	1:E:179:LEU:HD23	2.10	0.65
1:F:70:GLU:HB3	1:F:107:THR:HA	1.77	0.65
2:K:114:GLU:OE2	2:K:114:GLU:HA	1.96	0.65
1:F:527:LYS:HG3	2:M:145:MET:HA	1.79	0.65
2:M:49:GLN:N	2:M:49:GLN:HE21	1.94	0.65
1:B:615:ILE:HD12	1:B:645:TRP:HH2	1.61	0.65
1:D:315:PHE:HA	1:D:318:ILE:HD13	1.78	0.65
2:H:49:GLN:N	2:H:49:GLN:HE21	1.94	0.65
1:A:376:GLN:O	1:A:380:VAL:HG23	1.97	0.65
1:B:712:PHE:HB3	1:B:716:LYS:HG2	1.79	0.65
1:C:712:PHE:HB3	1:C:716:LYS:HG2	1.79	0.65
1:E:70:GLU:HB3	1:E:107:THR:HA	1.76	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:88:LYS:NZ	1:E:172:GLU:OE2	2.29	0.65
1:F:112:VAL:C	1:F:114:HIS:H	2.00	0.65
1:F:217:LYS:HZ2	1:F:236:GLU:HB2	1.60	0.65
1:B:70:GLU:HB3	1:B:107:THR:HA	1.77	0.65
1:B:478:ALA:HB1	1:B:486:LYS:O	1.96	0.65
1:D:122:GLU:HB2	1:D:147:ARG:HG3	1.78	0.65
1:E:142:VAL:HG13	1:E:154:ILE:CD1	2.26	0.65
1:E:712:PHE:HB3	1:E:716:LYS:HG2	1.79	0.65
2:M:102:ALA:HB2	2:M:125:ILE:HG13	1.79	0.65
1:B:123:GLU:HG2	1:B:124:GLU:N	2.04	0.65
1:B:456:LYS:HB2	1:B:470:ASN:HA	1.78	0.65
1:C:142:VAL:HG13	1:C:154:ILE:CD1	2.27	0.65
1:C:765:THR:HA	1:C:769:SER:HB2	1.79	0.65
1:D:443:GLU:HG3	1:D:458:LYS:HG3	1.79	0.65
1:D:79:ILE:O	1:D:81:GLN:N	2.30	0.65
1:F:190:PRO:O	1:F:195:LEU:HD13	1.97	0.65
1:F:678:VAL:HG22	1:F:745:TYR:HE2	1.62	0.65
1:F:90:PRO:O	1:F:93:VAL:HG12	1.97	0.65
2:J:102:ALA:HB2	2:J:125:ILE:HG13	1.78	0.65
2:K:100:ILE:HB	2:K:136:VAL:CG2	2.24	0.65
1:A:90:PRO:O	1:A:93:VAL:HG12	1.96	0.65
1:C:315:PHE:HA	1:C:318:ILE:HD13	1.78	0.65
1:C:722:ILE:HG23	1:C:760:VAL:CG1	2.24	0.65
1:C:704:TYR:OH	1:C:759:GLN:OE1	2.14	0.65
1:E:197:LYS:HE2	1:E:263:ASP:HB3	1.78	0.65
1:E:337:ASN:ND2	1:E:412:GLU:OE2	2.28	0.65
1:E:90:PRO:O	1:E:93:VAL:HG12	1.97	0.65
1:F:632:TYR:O	1:F:633:ASN:HB2	1.96	0.65
2:I:49:GLN:N	2:I:49:GLN:HE21	1.94	0.65
2:K:12:PHE:HE1	2:K:72:MET:HG3	1.59	0.65
2:L:121:VAL:C	2:L:123:GLU:N	2.46	0.65
1:A:337:ASN:ND2	1:A:412:GLU:OE2	2.28	0.65
1:A:443:GLU:HG3	1:A:458:LYS:HG3	1.78	0.65
1:A:715:GLU:HG3	1:A:767:GLN:HE21	1.60	0.65
1:B:722:ILE:HG23	1:B:760:VAL:CG1	2.25	0.65
1:D:456:LYS:HB2	1:D:470:ASN:HA	1.78	0.65
1:E:299:GLU:O	1:E:299:GLU:HG2	1.96	0.65
1:E:450:ASN:O	1:E:452:GLU:N	2.23	0.65
1:F:197:LYS:HE2	1:F:263:ASP:HB3	1.78	0.65
1:F:70:GLU:HB2	1:F:107:THR:HG22	1.77	0.65
1:B:112:VAL:C	1:B:114:HIS:H	1.99	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:184:LYS:HE3	1:B:191:GLU:HB2	1.79	0.65
1:B:217:LYS:HZ2	1:B:236:GLU:HB2	1.61	0.65
1:C:597:ASN:ND2	1:C:601:GLU:N	2.45	0.65
1:D:190:PRO:O	1:D:195:LEU:HD13	1.97	0.65
1:D:376:GLN:O	1:D:380:VAL:HG23	1.97	0.65
1:D:70:GLU:HB2	1:D:107:THR:HG22	1.77	0.65
1:E:194:ASN:HA	1:E:197:LYS:HB2	1.78	0.65
1:E:697:ILE:CD1	1:E:732:ILE:HD13	2.13	0.65
1:F:142:VAL:HG13	1:F:154:ILE:CD1	2.27	0.65
1:F:301:ALA:C	1:F:303:LYS:H	2.00	0.65
2:I:102:ALA:HB2	2:I:125:ILE:HG13	1.77	0.65
2:L:25:GLY:HA3	2:L:65:PHE:CZ	2.32	0.65
1:A:712:PHE:HB3	1:A:716:LYS:HG2	1.78	0.64
1:C:186:LYS:HE3	1:C:234:LEU:CD1	2.27	0.64
1:C:376:GLN:O	1:C:380:VAL:HG23	1.97	0.64
1:D:301:ALA:C	1:D:303:LYS:H	2.00	0.64
1:D:712:PHE:HB3	1:D:716:LYS:HG2	1.79	0.64
1:E:615:ILE:HD12	1:E:645:TRP:HH2	1.62	0.64
1:F:194:ASN:HA	1:F:197:LYS:HB2	1.78	0.64
1:A:615:ILE:HD12	1:A:645:TRP:HH2	1.62	0.64
1:B:710:HIS:C	1:B:712:PHE:H	1.99	0.64
1:E:443:GLU:HG3	1:E:458:LYS:HG3	1.79	0.64
1:F:257:LEU:HG	1:F:257:LEU:O	1.96	0.64
1:F:712:PHE:HB3	1:F:716:LYS:HG2	1.79	0.64
2:L:9:ILE:HD12	2:L:69:LEU:HD21	1.78	0.64
1:A:142:VAL:HG13	1:A:154:ILE:CD1	2.27	0.64
1:B:592:GLU:HB3	1:B:604:LEU:HD11	1.79	0.64
1:B:718:ARG:NH1	1:B:767:GLN:HE21	1.95	0.64
1:B:89:ILE:HG22	1:B:90:PRO:HD2	1.78	0.64
1:C:299:GLU:O	1:C:299:GLU:HG2	1.97	0.64
1:C:678:VAL:HG22	1:C:745:TYR:HE2	1.62	0.64
1:E:122:GLU:HG3	1:E:147:ARG:CB	2.20	0.64
1:E:592:GLU:HB3	1:E:604:LEU:HD11	1.80	0.64
1:A:159:TYR:HD1	1:A:159:TYR:N	1.96	0.64
1:A:456:LYS:HB2	1:A:470:ASN:HA	1.77	0.64
1:C:194:ASN:HA	1:C:197:LYS:HB2	1.78	0.64
1:C:615:ILE:HD12	1:C:645:TRP:HH2	1.63	0.64
1:D:194:ASN:HA	1:D:197:LYS:HB2	1.78	0.64
1:D:257:LEU:HG	1:D:257:LEU:O	1.96	0.64
2:H:9:ILE:HD12	2:H:69:LEU:HD21	1.78	0.64
2:I:9:ILE:HD12	2:I:69:LEU:HD21	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:527:LYS:HD2	2:J:145:MET:O	1.97	0.64
1:A:197:LYS:HD3	1:A:263:ASP:OD1	1.97	0.64
1:A:765:THR:HA	1:A:769:SER:HB2	1.78	0.64
1:B:142:VAL:HG13	1:B:154:ILE:CD1	2.27	0.64
1:C:90:PRO:O	1:C:93:VAL:HG12	1.97	0.64
1:D:710:HIS:C	1:D:712:PHE:H	2.00	0.64
1:D:89:ILE:HG22	1:D:90:PRO:HD2	1.79	0.64
1:D:90:PRO:O	1:D:93:VAL:HG12	1.97	0.64
1:E:131:ARG:HG3	1:E:243:LEU:HD22	1.80	0.64
1:E:724:ARG:HG3	1:E:724:ARG:NH1	2.13	0.64
1:E:765:THR:HA	1:E:769:SER:HB2	1.80	0.64
1:F:450:ASN:O	1:F:452:GLU:N	2.23	0.64
1:B:630:ARG:NE	2:I:83:GLU:HG2	2.12	0.64
1:B:90:PRO:HG2	1:B:93:VAL:CB	2.28	0.64
1:C:301:ALA:C	1:C:303:LYS:H	2.00	0.64
1:C:88:LYS:NZ	1:C:172:GLU:OE2	2.29	0.64
1:E:555:GLN:HG3	1:E:556:MET:N	2.12	0.64
2:M:138:TYR:CE1	2:M:142:VAL:HG22	2.33	0.64
2:M:49:GLN:H	2:M:49:GLN:HE21	1.46	0.64
1:A:115:LYS:HZ3	1:A:116:GLU:CG	2.09	0.64
1:A:710:HIS:C	1:A:712:PHE:H	2.00	0.64
1:A:79:ILE:C	1:A:81:GLN:H	2.01	0.64
1:B:376:GLN:O	1:B:380:VAL:HG23	1.97	0.64
1:D:350:VAL:HG12	1:D:352:GLY:H	1.62	0.64
1:D:678:VAL:HG22	1:D:745:TYR:HE2	1.62	0.64
1:F:376:GLN:O	1:F:380:VAL:HG23	1.97	0.64
2:I:25:GLY:HA3	2:I:65:PHE:CZ	2.32	0.64
2:K:25:GLY:HA3	2:K:65:PHE:CZ	2.33	0.64
2:K:37:ARG:HG2	2:K:37:ARG:NH1	2.12	0.64
1:C:355:SER:CB	1:C:371:SER:HA	2.28	0.64
1:D:142:VAL:HG13	1:D:154:ILE:CD1	2.28	0.64
1:F:107:THR:CG2	1:F:115:LYS:HD2	2.28	0.64
1:F:299:GLU:O	1:F:299:GLU:HG2	1.95	0.64
2:H:102:ALA:HB2	2:H:125:ILE:HG13	1.78	0.64
2:H:63:ILE:HG13	2:H:67:GLU:CB	2.22	0.64
1:B:527:LYS:HD2	2:I:145:MET:O	1.97	0.64
2:K:138:TYR:CE1	2:K:142:VAL:HG22	2.33	0.64
1:B:409:ARG:O	1:B:413:LEU:HG	1.98	0.64
1:D:115:LYS:NZ	1:D:116:GLU:N	2.46	0.64
1:E:190:PRO:O	1:E:195:LEU:HD13	1.97	0.64
1:E:165:GLN:NE2	1:E:252:ASP:HB3	2.13	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:197:LYS:NZ	1:F:197:LYS:HB3	2.13	0.64
1:F:218:LEU:C	1:F:220:LEU:H	2.02	0.64
1:F:519:THR:OG1	1:F:520:PRO:HD2	1.97	0.64
1:F:555:GLN:HG3	1:F:556:MET:N	2.12	0.64
2:H:25:GLY:HA3	2:H:65:PHE:CZ	2.33	0.64
1:A:131:ARG:HG3	1:A:243:LEU:HD22	1.80	0.63
1:A:350:VAL:HG12	1:A:352:GLY:H	1.63	0.63
1:A:409:ARG:O	1:A:413:LEU:HG	1.98	0.63
1:B:350:VAL:HG12	1:B:352:GLY:H	1.62	0.63
1:C:165:GLN:NE2	1:C:252:ASP:HB3	2.13	0.63
1:C:555:GLN:HG3	1:C:556:MET:N	2.12	0.63
1:E:145:LYS:HB3	1:E:151:LYS:HB2	1.80	0.63
1:E:355:SER:CB	1:E:371:SER:HA	2.29	0.63
1:F:131:ARG:HG3	1:F:243:LEU:HD22	1.81	0.63
2:I:9:ILE:HD12	2:I:69:LEU:CD2	2.29	0.63
2:J:25:GLY:HA3	2:J:65:PHE:CZ	2.34	0.63
1:A:115:LYS:NZ	1:A:116:GLU:N	2.46	0.63
1:B:301:ALA:C	1:B:303:LYS:H	2.00	0.63
1:B:64:ASN:N	1:B:64:ASN:HD22	1.97	0.63
1:B:765:THR:HA	1:B:769:SER:HB2	1.78	0.63
1:D:409:ARG:O	1:D:413:LEU:HG	1.98	0.63
1:E:586:PHE:HA	1:E:639:ASN:ND2	2.13	0.63
1:F:197:LYS:HD3	1:F:263:ASP:OD1	1.97	0.63
2:L:102:ALA:HB2	2:L:125:ILE:HG13	1.80	0.63
1:A:694:VAL:CG2	2:H:18:LEU:HD21	2.29	0.63
1:B:165:GLN:NE2	1:B:252:ASP:HB3	2.13	0.63
1:B:519:THR:OG1	1:B:520:PRO:HD2	1.98	0.63
1:B:730:ASN:ND2	1:B:782:PHE:CD1	2.66	0.63
1:B:90:PRO:O	1:B:93:VAL:HG12	1.98	0.63
1:C:184:LYS:HE3	1:C:191:GLU:HB2	1.79	0.63
1:C:443:GLU:HG3	1:C:458:LYS:HG3	1.79	0.63
1:D:88:LYS:NZ	1:D:172:GLU:OE2	2.29	0.63
1:D:79:ILE:C	1:D:81:GLN:H	2.02	0.63
1:F:344:ALA:HA	1:F:569:TYR:OH	1.98	0.63
1:F:597:ASN:ND2	1:F:601:GLU:N	2.46	0.63
2:I:63:ILE:HG13	2:I:67:GLU:CB	2.23	0.63
1:E:527:LYS:HD2	2:L:145:MET:O	1.98	0.63
2:L:49:GLN:H	2:L:49:GLN:HE21	1.46	0.63
2:L:9:ILE:HD12	2:L:69:LEU:CD2	2.29	0.63
1:A:88:LYS:NZ	1:A:172:GLU:OE2	2.29	0.63
1:B:355:SER:CB	1:B:371:SER:HA	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:131:ARG:HG3	1:C:243:LEU:HD22	1.80	0.63
1:C:711:ILE:O	1:C:712:PHE:HD2	1.82	0.63
1:D:145:LYS:HB3	1:D:151:LYS:HB2	1.81	0.63
1:D:197:LYS:HD3	1:D:263:ASP:OD1	1.96	0.63
2:J:9:ILE:HD12	2:J:69:LEU:CD2	2.28	0.63
2:M:9:ILE:HD12	2:M:69:LEU:HD21	1.79	0.63
1:A:318:ILE:N	1:A:318:ILE:HD12	2.08	0.63
1:C:278:LYS:HB2	1:C:279:ILE:HD13	1.81	0.63
1:C:320:ARG:HG2	1:C:599:GLU:HA	1.81	0.63
1:C:592:GLU:HB3	1:C:604:LEU:HD11	1.80	0.63
1:D:519:THR:OG1	1:D:520:PRO:HD2	1.98	0.63
1:E:519:THR:OG1	1:E:520:PRO:HD2	1.98	0.63
1:F:107:THR:HG21	1:F:115:LYS:CE	2.29	0.63
1:F:443:GLU:HG3	1:F:458:LYS:HG3	1.79	0.63
1:A:555:GLN:HG3	1:A:556:MET:N	2.12	0.63
1:B:186:LYS:HE3	1:B:234:LEU:CD1	2.27	0.63
1:B:288:VAL:HG23	1:B:289:GLU:N	2.14	0.63
1:C:79:ILE:C	1:C:81:GLN:H	2.02	0.63
1:D:131:ARG:HG3	1:D:243:LEU:HD22	1.80	0.63
1:D:586:PHE:HA	1:D:639:ASN:ND2	2.13	0.63
1:E:218:LEU:C	1:E:220:LEU:H	2.02	0.63
1:E:350:VAL:HG12	1:E:352:GLY:H	1.63	0.63
1:F:592:GLU:HB3	1:F:604:LEU:HD11	1.79	0.63
2:J:49:GLN:HE21	2:J:49:GLN:H	1.47	0.63
2:M:121:VAL:C	2:M:123:GLU:N	2.46	0.63
2:M:25:GLY:HA3	2:M:65:PHE:CZ	2.33	0.63
1:A:288:VAL:HG23	1:A:289:GLU:N	2.14	0.63
1:C:165:GLN:HE21	1:C:251:PRO:CG	2.12	0.63
1:C:630:ARG:NE	2:J:83:GLU:HG2	2.14	0.63
1:D:165:GLN:NE2	1:D:251:PRO:HG2	2.13	0.63
1:E:112:VAL:C	1:E:114:HIS:H	1.99	0.63
1:E:288:VAL:HG23	1:E:289:GLU:N	2.14	0.63
1:E:344:ALA:HA	1:E:569:TYR:OH	1.98	0.63
1:E:597:ASN:ND2	1:E:601:GLU:N	2.46	0.63
1:F:318:ILE:N	1:F:318:ILE:HD12	2.09	0.63
2:I:138:TYR:CE1	2:I:142:VAL:HG22	2.33	0.63
2:J:100:ILE:HG22	2:J:101:SER:N	2.14	0.63
1:A:332:ASN:HD21	1:A:334:LEU:HB2	1.64	0.63
1:A:519:THR:OG1	1:A:520:PRO:HD2	1.98	0.63
1:C:115:LYS:NZ	1:C:116:GLU:N	2.47	0.63
1:C:89:ILE:HG22	1:C:90:PRO:HD2	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:115:LYS:HZ3	1:E:116:GLU:CG	2.10	0.63
1:E:730:ASN:ND2	1:E:782:PHE:CD1	2.67	0.63
1:F:145:LYS:HB3	1:F:151:LYS:HB2	1.81	0.63
1:F:165:GLN:HE21	1:F:251:PRO:CG	2.12	0.63
1:F:697:ILE:CD1	1:F:732:ILE:HD13	2.13	0.63
1:F:704:TYR:OH	1:F:759:GLN:OE1	2.15	0.63
1:F:730:ASN:ND2	1:F:782:PHE:CD1	2.67	0.63
2:H:9:ILE:HD12	2:H:69:LEU:CD2	2.29	0.63
2:K:100:ILE:HG22	2:K:101:SER:N	2.14	0.63
2:L:16:PHE:HE1	2:L:27:ILE:CD1	2.12	0.63
2:M:37:ARG:NH1	2:M:37:ARG:HG2	2.13	0.63
1:A:145:LYS:HB3	1:A:151:LYS:HB2	1.81	0.63
1:A:165:GLN:NE2	1:A:252:ASP:HB3	2.13	0.63
1:B:351:HIS:HB2	1:B:386:GLU:CG	2.29	0.63
1:C:165:GLN:NE2	1:C:251:PRO:HG2	2.14	0.63
1:C:409:ARG:O	1:C:413:LEU:HG	1.98	0.63
1:C:293:ILE:HD11	1:C:617:LYS:HD3	1.81	0.63
1:D:592:GLU:HB3	1:D:604:LEU:HD11	1.80	0.63
1:E:186:LYS:HE3	1:E:234:LEU:CD1	2.28	0.63
1:F:332:ASN:HD21	1:F:334:LEU:HB2	1.64	0.63
2:K:49:GLN:HE21	2:K:49:GLN:H	1.47	0.63
2:L:138:TYR:CE1	2:L:142:VAL:HG22	2.34	0.63
2:M:9:ILE:HD12	2:M:69:LEU:CD2	2.29	0.63
1:A:107:THR:HG21	1:A:115:LYS:CE	2.29	0.62
1:A:122:GLU:HB2	1:A:147:ARG:HG3	1.81	0.62
1:A:225:ILE:HG12	1:A:229:PHE:CE2	2.28	0.62
1:A:326:ILE:HG22	1:A:328:PHE:CE1	2.33	0.62
1:A:355:SER:CB	1:A:371:SER:HA	2.28	0.62
1:A:704:TYR:OH	1:A:759:GLN:OE1	2.14	0.62
1:B:344:ALA:HA	1:B:569:TYR:OH	1.99	0.62
1:D:165:GLN:HE21	1:D:251:PRO:CG	2.12	0.62
1:D:355:SER:CB	1:D:371:SER:HA	2.29	0.62
1:D:344:ALA:HA	1:D:569:TYR:OH	1.99	0.62
1:E:409:ARG:O	1:E:413:LEU:HG	1.98	0.62
1:E:505:LYS:HD3	2:L:112:LEU:O	1.99	0.62
1:E:293:ILE:HD11	1:E:617:LYS:HD3	1.80	0.62
1:F:165:GLN:NE2	1:F:252:ASP:HB3	2.13	0.62
1:F:355:SER:CB	1:F:371:SER:HA	2.29	0.62
1:F:293:ILE:HD11	1:F:617:LYS:HD3	1.80	0.62
1:A:527:LYS:HD2	2:H:145:MET:O	1.98	0.62
2:J:63:ILE:HG13	2:J:67:GLU:CB	2.23	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:63:ILE:HG13	2:M:67:GLU:CB	2.23	0.62
1:A:278:LYS:HB2	1:A:279:ILE:HD13	1.80	0.62
1:A:89:ILE:HG22	1:A:90:PRO:HD2	1.80	0.62
1:B:586:PHE:HA	1:B:639:ASN:ND2	2.13	0.62
1:C:326:ILE:HG22	1:C:328:PHE:CE1	2.35	0.62
1:D:165:GLN:NE2	1:D:252:ASP:HB3	2.14	0.62
1:D:197:LYS:NZ	1:D:197:LYS:HB3	2.14	0.62
1:D:597:ASN:ND2	1:D:601:GLU:N	2.46	0.62
2:H:138:TYR:CE1	2:H:142:VAL:HG22	2.34	0.62
2:H:37:ARG:NH1	2:H:37:ARG:HG2	2.14	0.62
1:A:320:ARG:HG2	1:A:599:GLU:HA	1.81	0.62
1:A:344:ALA:HA	1:A:569:TYR:OH	1.99	0.62
1:A:597:ASN:ND2	1:A:601:GLU:N	2.46	0.62
1:A:630:ARG:NE	2:H:83:GLU:HG2	2.13	0.62
1:A:90:PRO:HG2	1:A:93:VAL:CB	2.28	0.62
1:B:248:TYR:O	1:B:248:TYR:HD2	1.82	0.62
1:B:282:SER:HA	1:B:285:LYS:HG2	1.81	0.62
1:C:197:LYS:HB3	1:C:197:LYS:NZ	2.15	0.62
1:D:107:THR:CG2	1:D:115:LYS:HD2	2.28	0.62
1:D:555:GLN:HG3	1:D:556:MET:N	2.12	0.62
1:E:107:THR:HG21	1:E:115:LYS:CE	2.29	0.62
1:F:90:PRO:HG2	1:F:93:VAL:CB	2.28	0.62
2:J:58:ASP:CB	2:J:62:THR:HG23	2.29	0.62
2:K:102:ALA:HB2	2:K:125:ILE:HG13	1.80	0.62
2:K:9:ILE:HD12	2:K:69:LEU:CD2	2.28	0.62
1:F:527:LYS:HD2	2:M:145:MET:O	1.99	0.62
1:B:293:ILE:HD11	1:B:617:LYS:HD3	1.81	0.62
1:B:332:ASN:HD21	1:B:334:LEU:HB2	1.64	0.62
1:B:443:GLU:HG3	1:B:458:LYS:HG3	1.80	0.62
1:B:704:TYR:OH	1:B:759:GLN:OE1	2.13	0.62
1:C:324:THR:CB	1:C:499:PRO:HA	2.29	0.62
1:D:278:LYS:HB2	1:D:279:ILE:HD13	1.81	0.62
1:D:711:ILE:O	1:D:712:PHE:HD2	1.82	0.62
1:E:332:ASN:HD21	1:E:334:LEU:HB2	1.63	0.62
1:F:122:GLU:HB2	1:F:147:ARG:HG3	1.81	0.62
1:F:409:ARG:O	1:F:413:LEU:HG	1.98	0.62
1:F:764:LEU:C	1:F:766:HIS:H	2.01	0.62
1:F:89:ILE:HG22	1:F:90:PRO:HD2	1.80	0.62
2:H:100:ILE:HB	2:H:136:VAL:CG2	2.24	0.62
2:H:49:GLN:H	2:H:49:GLN:HE21	1.47	0.62
2:J:16:PHE:HE1	2:J:27:ILE:CD1	2.12	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:592:GLU:HB3	1:A:604:LEU:HD11	1.80	0.62
1:A:711:ILE:O	1:A:712:PHE:HD2	1.83	0.62
1:B:145:LYS:HB3	1:B:151:LYS:HB2	1.82	0.62
1:B:197:LYS:NZ	1:B:197:LYS:HB3	2.14	0.62
1:B:79:ILE:C	1:B:81:GLN:H	2.01	0.62
1:C:145:LYS:HB3	1:C:151:LYS:HB2	1.81	0.62
1:C:519:THR:OG1	1:C:520:PRO:HD2	2.00	0.62
1:D:248:TYR:O	1:D:248:TYR:HD2	1.82	0.62
1:F:79:ILE:C	1:F:81:GLN:H	2.01	0.62
1:A:505:LYS:HD3	2:H:112:LEU:O	1.99	0.62
2:I:37:ARG:NH1	2:I:37:ARG:HG2	2.14	0.62
2:J:58:ASP:O	2:J:60:ASN:N	2.32	0.62
2:L:100:ILE:HG22	2:L:101:SER:N	2.13	0.62
2:M:109:MET:HG3	2:M:116:LEU:HD11	1.82	0.62
1:C:107:THR:HG21	1:C:115:LYS:CE	2.29	0.62
1:C:434:LEU:HD13	1:C:435:LEU:N	2.13	0.62
1:D:288:VAL:HG23	1:D:289:GLU:N	2.14	0.62
1:F:122:GLU:HG3	1:F:147:ARG:CB	2.22	0.62
1:F:179:LEU:H	1:F:179:LEU:CD2	2.13	0.62
1:F:189:ASP:C	1:F:191:GLU:N	2.52	0.62
1:F:79:ILE:O	1:F:81:GLN:N	2.29	0.62
2:H:100:ILE:HG22	2:H:101:SER:N	2.14	0.62
2:I:109:MET:HG3	2:I:116:LEU:HD11	1.81	0.62
2:J:37:ARG:NH1	2:J:37:ARG:HG2	2.14	0.62
2:M:16:PHE:HE1	2:M:27:ILE:CD1	2.12	0.62
1:A:180:ASP:CG	1:A:181:ILE:N	2.53	0.62
1:A:722:ILE:HG23	1:A:760:VAL:CG1	2.25	0.62
1:B:597:ASN:ND2	1:B:601:GLU:N	2.47	0.62
1:B:79:ILE:O	1:B:81:GLN:N	2.29	0.62
1:C:332:ASN:HD21	1:C:334:LEU:HB2	1.65	0.62
1:C:586:PHE:HA	1:C:639:ASN:ND2	2.14	0.62
1:E:115:LYS:NZ	1:E:116:GLU:N	2.46	0.62
1:E:197:LYS:HB3	1:E:197:LYS:NZ	2.14	0.62
2:H:109:MET:HG3	2:H:116:LEU:HD11	1.81	0.62
2:L:109:MET:HG3	2:L:116:LEU:HD11	1.82	0.62
2:L:51:MET:HB3	2:L:71:MET:SD	2.39	0.62
1:A:186:LYS:O	1:A:188:LEU:O	2.17	0.62
1:A:351:HIS:HB2	1:A:386:GLU:CG	2.29	0.62
1:B:107:THR:HG21	1:B:115:LYS:CE	2.29	0.62
1:B:324:THR:CB	1:B:499:PRO:HA	2.30	0.62
1:C:95:GLU:O	1:C:99:GLU:HB2	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:248:TYR:HD2	1:E:248:TYR:O	1.82	0.62
1:F:278:LYS:HB2	1:F:279:ILE:HD13	1.81	0.62
2:K:109:MET:HG3	2:K:116:LEU:HD11	1.82	0.62
1:A:678:VAL:HG22	1:A:745:TYR:HE2	1.63	0.62
1:B:405:LEU:HD13	1:B:453:VAL:HG21	1.82	0.62
1:C:350:VAL:HG12	1:C:352:GLY:H	1.62	0.62
1:D:131:ARG:H	1:D:170:TYR:HE2	1.48	0.62
1:D:478:ALA:HA	1:D:488:LEU:HG	1.81	0.62
1:D:90:PRO:HG3	1:D:249:PHE:CE1	2.35	0.62
1:E:107:THR:CG2	1:E:115:LYS:HD2	2.28	0.62
1:E:711:ILE:O	1:E:712:PHE:HD2	1.82	0.62
1:E:89:ILE:HG22	1:E:90:PRO:HD2	1.80	0.62
1:F:165:GLN:NE2	1:F:251:PRO:HG2	2.13	0.62
1:F:350:VAL:HG12	1:F:352:GLY:H	1.62	0.62
1:F:324:THR:CB	1:F:499:PRO:HA	2.30	0.62
2:I:16:PHE:HE1	2:I:27:ILE:CD1	2.12	0.62
2:M:100:ILE:HG22	2:M:101:SER:N	2.14	0.62
1:A:107:THR:CG2	1:A:115:LYS:HD2	2.28	0.62
1:B:180:ASP:CG	1:B:181:ILE:N	2.54	0.62
1:B:678:VAL:HG22	1:B:745:TYR:HE2	1.64	0.62
1:B:74:GLU:HB2	1:B:78:LYS:HB3	1.82	0.62
1:C:315:PHE:HA	1:C:318:ILE:CD1	2.30	0.62
1:D:107:THR:HG21	1:D:115:LYS:CE	2.30	0.62
1:D:179:LEU:CD2	1:D:179:LEU:H	2.13	0.62
1:D:581:GLN:NE2	1:D:629:ASN:HB2	2.15	0.62
1:E:79:ILE:O	1:E:81:GLN:N	2.30	0.62
1:E:90:PRO:HG3	1:E:249:PHE:CE1	2.35	0.62
1:F:722:ILE:HG23	1:F:760:VAL:CG1	2.24	0.62
2:J:109:MET:HG3	2:J:116:LEU:HD11	1.82	0.62
2:J:138:TYR:CE1	2:J:142:VAL:HG22	2.34	0.62
1:D:527:LYS:HD2	2:K:145:MET:O	1.98	0.62
1:A:248:TYR:O	1:A:248:TYR:HD2	1.83	0.61
1:A:308:VAL:O	1:A:311:HIS:HB2	2.00	0.61
1:A:586:PHE:HA	1:A:639:ASN:ND2	2.14	0.61
1:A:293:ILE:HD11	1:A:617:LYS:HD3	1.81	0.61
1:A:94:LEU:O	1:A:97:TYR:N	2.33	0.61
1:C:218:LEU:C	1:C:220:LEU:H	2.02	0.61
1:C:344:ALA:HA	1:C:569:TYR:OH	2.00	0.61
1:D:293:ILE:HD11	1:D:617:LYS:HD3	1.81	0.61
1:D:332:ASN:HD21	1:D:334:LEU:HB2	1.64	0.61
1:E:282:SER:HA	1:E:285:LYS:HG2	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:351:HIS:HB2	1:F:386:GLU:CG	2.29	0.61
1:F:620:THR:HG22	1:F:621:GLY:N	2.15	0.61
2:I:58:ASP:C	2:I:60:ASN:H	2.03	0.61
2:K:16:PHE:HE1	2:K:27:ILE:CD1	2.13	0.61
2:M:58:ASP:O	2:M:60:ASN:N	2.33	0.61
1:A:412:GLU:C	1:A:414:LYS:H	2.04	0.61
1:A:730:ASN:ND2	1:A:782:PHE:CD1	2.68	0.61
1:B:179:LEU:CD2	1:B:179:LEU:H	2.13	0.61
1:B:268:MET:HA	1:B:271:LEU:CD1	2.30	0.61
1:C:288:VAL:HG23	1:C:289:GLU:N	2.14	0.61
1:E:79:ILE:C	1:E:81:GLN:H	2.02	0.61
1:F:90:PRO:HG3	1:F:249:PHE:CE1	2.35	0.61
1:F:586:PHE:HA	1:F:639:ASN:ND2	2.15	0.61
1:F:711:ILE:O	1:F:712:PHE:HD2	1.83	0.61
2:H:58:ASP:C	2:H:60:ASN:H	2.03	0.61
2:I:49:GLN:HE21	2:I:49:GLN:H	1.47	0.61
2:L:58:ASP:C	2:L:60:ASN:H	2.04	0.61
1:A:122:GLU:HG3	1:A:147:ARG:CB	2.26	0.61
1:A:162:ASN:O	1:A:164:GLU:N	2.33	0.61
1:B:694:VAL:CG2	2:I:18:LEU:HD21	2.29	0.61
1:C:715:GLU:HA	1:C:718:ARG:HH12	1.63	0.61
1:D:315:PHE:HA	1:D:318:ILE:CD1	2.30	0.61
1:D:722:ILE:HG23	1:D:760:VAL:CG1	2.24	0.61
1:D:95:GLU:O	1:D:99:GLU:HB2	2.00	0.61
1:E:180:ASP:CG	1:E:181:ILE:N	2.53	0.61
1:E:552:TRP:O	1:E:555:GLN:HG2	2.01	0.61
1:E:95:GLU:O	1:E:99:GLU:HB2	2.00	0.61
1:F:326:ILE:HG22	1:F:328:PHE:CE1	2.35	0.61
1:D:505:LYS:HD3	2:K:112:LEU:O	1.99	0.61
2:M:58:ASP:C	2:M:60:ASN:H	2.04	0.61
1:A:282:SER:HA	1:A:285:LYS:HG2	1.82	0.61
1:A:315:PHE:HA	1:A:318:ILE:CD1	2.31	0.61
1:B:478:ALA:HA	1:B:488:LEU:HG	1.82	0.61
1:B:552:TRP:O	1:B:555:GLN:HG2	2.01	0.61
1:C:107:THR:CG2	1:C:115:LYS:HD2	2.28	0.61
1:C:472:ARG:HH11	1:C:472:ARG:CB	2.14	0.61
1:C:581:GLN:HA	1:C:581:GLN:NE2	2.15	0.61
1:D:351:HIS:HB2	1:D:386:GLU:CG	2.30	0.61
1:D:764:LEU:C	1:D:766:HIS:H	2.03	0.61
1:E:165:GLN:NE2	1:E:251:PRO:HG2	2.14	0.61
1:E:324:THR:CB	1:E:499:PRO:HA	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:248:TYR:O	1:F:248:TYR:HD2	1.82	0.61
1:F:268:MET:HA	1:F:271:LEU:CD1	2.31	0.61
2:M:58:ASP:CB	2:M:62:THR:HG23	2.29	0.61
1:B:326:ILE:HG22	1:B:328:PHE:CE1	2.35	0.61
1:B:320:ARG:HG2	1:B:599:GLU:HA	1.82	0.61
1:C:235:THR:O	1:C:238:GLN:HB2	2.01	0.61
1:C:268:MET:HA	1:C:271:LEU:CD1	2.30	0.61
1:C:351:HIS:HB2	1:C:386:GLU:CG	2.29	0.61
1:D:320:ARG:HG2	1:D:599:GLU:HA	1.82	0.61
1:E:351:HIS:HB2	1:E:386:GLU:CG	2.29	0.61
1:E:704:TYR:OH	1:E:759:GLN:OE1	2.16	0.61
2:H:109:MET:HG3	2:H:116:LEU:CD1	2.30	0.61
1:C:505:LYS:HD3	2:J:112:LEU:O	1.99	0.61
2:J:138:TYR:O	2:J:142:VAL:HG23	2.00	0.61
1:A:179:LEU:CD2	1:A:179:LEU:H	2.13	0.61
1:A:478:ALA:HA	1:A:488:LEU:HG	1.82	0.61
1:A:324:THR:CB	1:A:499:PRO:HA	2.30	0.61
1:A:581:GLN:NE2	1:A:629:ASN:HB2	2.16	0.61
1:B:308:VAL:O	1:B:311:HIS:HB2	2.01	0.61
1:B:94:LEU:O	1:B:97:TYR:N	2.34	0.61
1:B:95:GLU:O	1:B:99:GLU:HB2	2.00	0.61
1:D:326:ILE:HG22	1:D:328:PHE:CE1	2.35	0.61
1:D:403:LEU:HG	1:D:405:LEU:CD1	2.31	0.61
1:D:90:PRO:HG2	1:D:93:VAL:CB	2.28	0.61
1:E:405:LEU:HD13	1:E:453:VAL:HG21	1.81	0.61
1:E:694:VAL:CG2	2:L:18:LEU:HD21	2.30	0.61
2:L:58:ASP:O	2:L:60:ASN:N	2.33	0.61
1:A:218:LEU:C	1:A:220:LEU:H	2.02	0.61
1:B:115:LYS:NZ	1:B:116:GLU:N	2.46	0.61
1:B:162:ASN:O	1:B:164:GLU:N	2.34	0.61
1:B:88:LYS:NZ	1:B:172:GLU:OE2	2.30	0.61
1:C:730:ASN:ND2	1:C:782:PHE:CD1	2.68	0.61
1:D:715:GLU:HA	1:D:718:ARG:HH12	1.65	0.61
1:D:730:ASN:ND2	1:D:782:PHE:CD1	2.69	0.61
1:E:308:VAL:O	1:E:311:HIS:HB2	2.01	0.61
1:E:412:GLU:C	1:E:414:LYS:H	2.04	0.61
1:E:434:LEU:CD1	1:E:434:LEU:C	2.66	0.61
1:F:180:ASP:CG	1:F:181:ILE:N	2.53	0.61
1:F:320:ARG:HG2	1:F:599:GLU:HA	1.81	0.61
1:F:505:LYS:HD3	2:M:112:LEU:O	2.00	0.61
1:C:162:ASN:O	1:C:164:GLU:N	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:248:TYR:O	1:C:248:TYR:HD2	1.83	0.61
1:D:189:ASP:C	1:D:191:GLU:N	2.53	0.61
1:D:268:MET:HA	1:D:271:LEU:CD1	2.30	0.61
1:D:282:SER:HA	1:D:285:LYS:HG2	1.82	0.61
1:E:165:GLN:HE21	1:E:251:PRO:CG	2.12	0.61
1:E:235:THR:O	1:E:238:GLN:HB2	2.01	0.61
1:E:463:THR:HB	1:E:467:GLU:H	1.65	0.61
1:F:282:SER:HA	1:F:285:LYS:HG2	1.82	0.61
1:F:630:ARG:NE	2:M:83:GLU:HG2	2.16	0.61
1:F:710:HIS:O	1:F:712:PHE:N	2.34	0.61
1:F:94:LEU:O	1:F:97:TYR:N	2.32	0.61
2:H:16:PHE:HE1	2:H:27:ILE:CD1	2.13	0.61
2:L:6:GLU:HG3	2:L:7:GLU:N	2.16	0.61
1:A:197:LYS:NZ	1:A:197:LYS:HB3	2.15	0.61
1:A:403:LEU:HG	1:A:405:LEU:CD1	2.31	0.61
1:B:165:GLN:NE2	1:B:251:PRO:HG2	2.14	0.61
1:B:315:PHE:HA	1:B:318:ILE:CD1	2.31	0.61
1:B:684:ASP:C	1:B:686:ASP:N	2.54	0.61
1:C:405:LEU:HD13	1:C:453:VAL:HG21	1.82	0.61
1:C:581:GLN:NE2	1:C:629:ASN:HB2	2.15	0.61
1:E:278:LYS:HB2	1:E:279:ILE:HD13	1.81	0.61
1:F:235:THR:O	1:F:238:GLN:HB2	2.01	0.61
1:F:315:PHE:HA	1:F:318:ILE:CD1	2.31	0.61
1:F:403:LEU:HG	1:F:405:LEU:CD1	2.30	0.61
2:H:117:THR:O	2:H:119:GLU:N	2.34	0.61
2:K:58:ASP:C	2:K:60:ASN:H	2.04	0.61
2:M:109:MET:HG3	2:M:116:LEU:CD1	2.31	0.61
2:M:6:GLU:HG3	2:M:7:GLU:N	2.16	0.61
1:A:472:ARG:HH11	1:A:472:ARG:CB	2.14	0.61
1:A:552:TRP:O	1:A:555:GLN:HG2	2.00	0.61
1:B:218:LEU:C	1:B:220:LEU:H	2.02	0.61
1:B:397:GLU:O	1:B:479:LYS:HA	2.01	0.61
1:C:74:GLU:HB2	1:C:78:LYS:HB3	1.83	0.61
1:C:90:PRO:HG3	1:C:249:PHE:CE1	2.35	0.61
1:D:131:ARG:N	1:D:170:TYR:HE2	1.99	0.61
1:D:629:ASN:HB3	1:D:632:TYR:CD1	2.36	0.61
1:D:724:ARG:HG3	1:D:724:ARG:NH1	2.14	0.61
1:E:94:LEU:O	1:E:97:TYR:N	2.34	0.61
1:F:270:LYS:O	1:F:273:LYS:HB2	2.01	0.61
1:F:463:THR:HB	1:F:467:GLU:H	1.65	0.61
1:F:525:LYS:O	1:F:525:LYS:HG2	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:109:MET:HG3	2:I:116:LEU:CD1	2.31	0.61
2:J:109:MET:HG3	2:J:116:LEU:CD1	2.31	0.61
2:J:6:GLU:HG3	2:J:7:GLU:N	2.16	0.61
2:L:138:TYR:O	2:L:142:VAL:HG23	2.01	0.61
1:A:609:GLU:O	1:A:613:ARG:N	2.33	0.60
1:A:74:GLU:HB2	1:A:78:LYS:HB3	1.83	0.60
1:A:90:PRO:HG3	1:A:249:PHE:CE1	2.36	0.60
1:B:107:THR:CG2	1:B:115:LYS:HD2	2.28	0.60
1:B:278:LYS:HB2	1:B:279:ILE:HD13	1.81	0.60
1:B:581:GLN:NE2	1:B:629:ASN:HB2	2.16	0.60
1:B:711:ILE:O	1:B:712:PHE:HD2	1.83	0.60
1:C:403:LEU:HG	1:C:405:LEU:CD1	2.31	0.60
1:E:162:ASN:O	1:E:164:GLU:N	2.33	0.60
1:E:478:ALA:HA	1:E:488:LEU:HG	1.82	0.60
1:F:162:ASN:O	1:F:164:GLU:N	2.34	0.60
1:F:581:GLN:NE2	1:F:629:ASN:HB2	2.15	0.60
2:J:58:ASP:C	2:J:60:ASN:H	2.04	0.60
2:K:109:MET:HG3	2:K:116:LEU:CD1	2.31	0.60
2:M:138:TYR:O	2:M:142:VAL:HG23	2.01	0.60
1:A:405:LEU:HD13	1:A:453:VAL:HG21	1.83	0.60
1:A:95:GLU:O	1:A:99:GLU:HB2	2.00	0.60
1:B:463:THR:HB	1:B:467:GLU:H	1.64	0.60
1:B:472:ARG:HH11	1:B:472:ARG:CB	2.13	0.60
1:C:179:LEU:CD2	1:C:179:LEU:H	2.13	0.60
1:C:282:SER:HA	1:C:285:LYS:HG2	1.82	0.60
1:C:478:ALA:HA	1:C:488:LEU:HG	1.82	0.60
1:D:463:THR:HB	1:D:467:GLU:H	1.65	0.60
1:D:74:GLU:HB2	1:D:78:LYS:HB3	1.83	0.60
1:E:90:PRO:HG2	1:E:93:VAL:CB	2.28	0.60
1:F:552:TRP:O	1:F:555:GLN:HG2	2.01	0.60
1:F:584:GLU:O	1:F:587:PRO:HD3	2.01	0.60
1:F:615:ILE:O	1:F:619:ILE:HB	2.01	0.60
2:I:100:ILE:HG22	2:I:101:SER:N	2.14	0.60
2:K:6:GLU:HG3	2:K:7:GLU:N	2.16	0.60
1:A:333:LYS:C	1:A:335:ALA:H	2.04	0.60
1:B:403:LEU:HG	1:B:405:LEU:CD1	2.31	0.60
1:B:505:LYS:HD3	2:I:112:LEU:O	2.00	0.60
1:D:308:VAL:O	1:D:311:HIS:HB2	2.01	0.60
1:D:552:TRP:O	1:D:555:GLN:HG2	2.00	0.60
1:E:315:PHE:HA	1:E:318:ILE:CD1	2.31	0.60
1:F:88:LYS:NZ	1:F:172:GLU:OE2	2.29	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:405:LEU:HD13	1:F:453:VAL:HG21	1.82	0.60
1:A:190:PRO:O	1:A:195:LEU:HD13	2.02	0.60
1:B:105:TYR:N	1:B:152:LEU:O	2.26	0.60
1:B:710:HIS:O	1:B:712:PHE:N	2.33	0.60
1:C:90:PRO:HG2	1:C:93:VAL:CB	2.29	0.60
1:D:630:ARG:NE	2:K:83:GLU:HG2	2.17	0.60
1:E:320:ARG:HG2	1:E:599:GLU:HA	1.81	0.60
1:E:684:ASP:C	1:E:686:ASP:N	2.55	0.60
1:F:301:ALA:C	1:F:303:LYS:N	2.55	0.60
1:F:478:ALA:HA	1:F:488:LEU:HG	1.82	0.60
1:F:74:GLU:HB2	1:F:78:LYS:HB3	1.83	0.60
2:K:119:GLU:O	2:K:123:GLU:HB2	2.01	0.60
2:L:37:ARG:NH1	2:L:37:ARG:HG2	2.13	0.60
1:A:235:THR:O	1:A:238:GLN:HB2	2.01	0.60
1:A:463:THR:HB	1:A:467:GLU:H	1.65	0.60
1:A:795:LYS:HA	1:A:798:ASP:OD2	2.02	0.60
1:B:235:THR:O	1:B:238:GLN:HB2	2.01	0.60
1:B:326:ILE:C	1:B:327:LEU:HD12	2.21	0.60
1:B:412:GLU:C	1:B:414:LYS:H	2.04	0.60
1:B:795:LYS:HA	1:B:798:ASP:OD2	2.02	0.60
1:C:186:LYS:HA	1:C:190:PRO:HD3	1.81	0.60
1:C:552:TRP:O	1:C:555:GLN:HG2	2.00	0.60
1:C:620:THR:HG22	1:C:621:GLY:N	2.16	0.60
1:D:333:LYS:C	1:D:335:ALA:H	2.04	0.60
1:E:179:LEU:CD2	1:E:179:LEU:H	2.13	0.60
1:E:326:ILE:HG22	1:E:328:PHE:CE1	2.35	0.60
1:E:615:ILE:O	1:E:619:ILE:HB	2.02	0.60
1:F:472:ARG:CB	1:F:472:ARG:HH11	2.14	0.60
2:H:58:ASP:O	2:H:60:ASN:N	2.32	0.60
2:H:6:GLU:HG3	2:H:7:GLU:N	2.16	0.60
2:I:6:GLU:HG3	2:I:7:GLU:N	2.16	0.60
2:K:138:TYR:O	2:K:142:VAL:HG23	2.01	0.60
1:B:165:GLN:HE21	1:B:251:PRO:CG	2.12	0.60
1:B:227:ILE:HG22	1:B:227:ILE:O	2.02	0.60
1:B:333:LYS:C	1:B:335:ALA:H	2.05	0.60
1:C:423:LYS:HG3	1:C:424:LYS:H	1.67	0.60
1:C:554:LYS:O	1:C:557:LEU:N	2.34	0.60
1:C:684:ASP:C	1:C:686:ASP:N	2.55	0.60
1:C:722:ILE:HG21	1:C:764:LEU:HD21	1.84	0.60
1:D:162:ASN:O	1:D:164:GLU:N	2.34	0.60
1:D:263:ASP:O	1:D:266:GLU:N	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:554:LYS:O	1:E:557:LEU:N	2.35	0.60
1:E:74:GLU:HB2	1:E:78:LYS:HB3	1.83	0.60
2:I:138:TYR:O	2:I:142:VAL:HG23	2.02	0.60
2:I:58:ASP:O	2:I:60:ASN:N	2.33	0.60
2:K:51:MET:HB3	2:K:71:MET:SD	2.42	0.60
2:L:109:MET:HG3	2:L:116:LEU:CD1	2.31	0.60
2:L:126:ARG:HH21	2:L:126:ARG:HG3	1.67	0.60
1:A:165:GLN:HE21	1:A:251:PRO:CG	2.13	0.60
1:B:122:GLU:HG3	1:B:147:ARG:CB	2.27	0.60
1:B:165:GLN:C	1:B:167:LYS:H	2.05	0.60
1:B:554:LYS:O	1:B:557:LEU:N	2.34	0.60
1:C:308:VAL:O	1:C:311:HIS:HB2	2.01	0.60
1:C:764:LEU:C	1:C:766:HIS:H	2.05	0.60
1:D:324:THR:CB	1:D:499:PRO:HA	2.30	0.60
1:D:684:ASP:C	1:D:686:ASP:N	2.55	0.60
1:E:403:LEU:HG	1:E:405:LEU:CD1	2.31	0.60
1:E:441:VAL:HG22	1:E:461:LYS:HG2	1.84	0.60
1:E:472:ARG:HH11	1:E:472:ARG:CB	2.15	0.60
1:F:288:VAL:HG23	1:F:289:GLU:N	2.15	0.60
1:F:441:VAL:HG22	1:F:461:LYS:HG2	1.84	0.60
1:F:629:ASN:ND2	1:F:630:ARG:N	2.50	0.60
1:F:739:LYS:HG2	1:F:740:GLN:H	1.66	0.60
2:J:117:THR:O	2:J:119:GLU:N	2.35	0.60
1:F:694:VAL:CG2	2:M:18:LEU:HD21	2.32	0.60
1:A:441:VAL:HG22	1:A:461:LYS:HG2	1.84	0.60
1:A:397:GLU:O	1:A:479:LYS:HA	2.02	0.60
1:A:665:LYS:HD2	2:H:11:GLU:CD	2.22	0.60
1:B:189:ASP:HB3	1:B:190:PRO:HD2	1.83	0.60
1:B:441:VAL:HG22	1:B:461:LYS:HG2	1.84	0.60
1:C:165:GLN:C	1:C:167:LYS:H	2.05	0.60
1:C:739:LYS:HG2	1:C:740:GLN:H	1.67	0.60
1:D:270:LYS:O	1:D:273:LYS:HB2	2.02	0.60
1:D:397:GLU:O	1:D:479:LYS:HA	2.01	0.60
1:E:333:LYS:C	1:E:335:ALA:H	2.05	0.60
1:F:308:VAL:O	1:F:311:HIS:HB2	2.02	0.60
1:F:412:GLU:C	1:F:414:LYS:H	2.04	0.60
1:F:719:LYS:O	1:F:721:SER:N	2.35	0.60
2:H:100:ILE:CG2	2:H:101:SER:N	2.65	0.60
1:F:647:ASP:OD1	2:M:90:ARG:NH2	2.35	0.60
1:A:165:GLN:C	1:A:167:LYS:H	2.05	0.60
1:A:301:ALA:C	1:A:303:LYS:N	2.54	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:581:GLN:NE2	1:A:581:GLN:HA	2.17	0.60
1:B:584:GLU:O	1:B:587:PRO:HD3	2.02	0.60
1:B:629:ASN:HB3	1:B:632:TYR:CD1	2.37	0.60
1:B:718:ARG:HH12	1:B:767:GLN:HE21	1.49	0.60
1:C:333:LYS:C	1:C:335:ALA:H	2.05	0.60
1:D:405:LEU:HD13	1:D:453:VAL:HG21	1.82	0.60
1:E:581:GLN:NE2	1:E:629:ASN:HB2	2.16	0.60
1:E:629:ASN:ND2	1:E:630:ARG:N	2.49	0.60
1:F:165:GLN:C	1:F:167:LYS:H	2.05	0.60
1:F:95:GLU:O	1:F:99:GLU:HB2	2.01	0.60
1:A:684:ASP:C	1:A:686:ASP:N	2.55	0.60
1:A:739:LYS:HG2	1:A:740:GLN:H	1.66	0.60
1:B:302:LEU:HD22	1:B:602:PHE:HE1	1.66	0.60
1:B:629:ASN:ND2	1:B:630:ARG:N	2.50	0.60
1:C:441:VAL:HG22	1:C:461:LYS:HG2	1.84	0.60
1:D:581:GLN:NE2	1:D:581:GLN:HA	2.17	0.60
1:D:739:LYS:HG2	1:D:740:GLN:H	1.66	0.60
1:E:227:ILE:HG22	1:E:227:ILE:O	2.02	0.60
1:F:333:LYS:C	1:F:335:ALA:H	2.04	0.60
1:F:629:ASN:HB3	1:F:632:TYR:CD1	2.37	0.60
2:J:51:MET:HB3	2:J:71:MET:SD	2.42	0.60
2:K:100:ILE:CG2	2:K:101:SER:N	2.65	0.60
2:L:58:ASP:CB	2:L:62:THR:HG23	2.30	0.60
1:A:629:ASN:HB3	1:A:632:TYR:CD1	2.37	0.59
1:C:629:ASN:ND2	1:C:630:ARG:N	2.49	0.59
1:D:472:ARG:HH11	1:D:472:ARG:CB	2.14	0.59
1:D:94:LEU:O	1:D:97:TYR:N	2.34	0.59
1:F:684:ASP:C	1:F:686:ASP:N	2.55	0.59
1:E:630:ARG:NE	2:L:83:GLU:HG2	2.17	0.59
2:M:100:ILE:CG2	2:M:101:SER:N	2.65	0.59
2:M:117:THR:O	2:M:119:GLU:N	2.35	0.59
1:A:567:THR:CG2	1:A:568:GLY:N	2.55	0.59
1:A:724:ARG:HG3	1:A:724:ARG:NH1	2.13	0.59
1:C:270:LYS:O	1:C:273:LYS:HB2	2.02	0.59
1:C:629:ASN:HB3	1:C:632:TYR:CD1	2.38	0.59
1:C:94:LEU:O	1:C:97:TYR:N	2.34	0.59
1:D:97:TYR:C	1:D:99:GLU:H	2.06	0.59
1:E:301:ALA:O	1:E:303:LYS:N	2.36	0.59
1:F:115:LYS:NZ	1:F:116:GLU:N	2.47	0.59
1:F:302:LEU:HD22	1:F:602:PHE:HE1	1.66	0.59
2:H:138:TYR:O	2:H:142:VAL:HG23	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:117:THR:O	2:K:119:GLU:N	2.34	0.59
1:A:227:ILE:HG22	1:A:227:ILE:O	2.02	0.59
1:A:263:ASP:O	1:A:266:GLU:N	2.35	0.59
1:A:629:ASN:ND2	1:A:630:ARG:N	2.50	0.59
1:B:188:LEU:CD2	1:B:188:LEU:N	2.48	0.59
1:B:310:GLU:OE2	1:B:340:LYS:HD2	2.03	0.59
1:C:719:LYS:O	1:C:721:SER:N	2.36	0.59
1:D:423:LYS:HG3	1:D:424:LYS:H	1.67	0.59
1:D:746:LYS:O	1:D:750:GLN:HG2	2.02	0.59
1:F:397:GLU:O	1:F:479:LYS:HA	2.02	0.59
1:F:554:LYS:O	1:F:557:LEU:N	2.35	0.59
2:I:100:ILE:HB	2:I:136:VAL:CG2	2.23	0.59
2:I:58:ASP:CB	2:I:62:THR:HG23	2.29	0.59
2:J:100:ILE:HB	2:J:136:VAL:CG2	2.23	0.59
1:A:620:THR:HG22	1:A:621:GLY:N	2.17	0.59
1:A:746:LYS:O	1:A:750:GLN:HG2	2.02	0.59
1:B:525:LYS:O	1:B:525:LYS:HG2	2.02	0.59
1:B:739:LYS:HG2	1:B:740:GLN:H	1.66	0.59
1:C:463:THR:HB	1:C:467:GLU:H	1.65	0.59
1:C:482:GLU:OE2	1:C:482:GLU:HA	2.02	0.59
1:D:235:THR:O	1:D:238:GLN:HB2	2.02	0.59
1:D:441:VAL:HG22	1:D:461:LYS:HG2	1.85	0.59
1:E:178:SER:OG	1:E:179:LEU:N	2.35	0.59
1:E:270:LYS:O	1:E:273:LYS:HB2	2.02	0.59
1:E:739:LYS:HG2	1:E:740:GLN:H	1.67	0.59
1:F:263:ASP:O	1:F:266:GLU:N	2.35	0.59
1:F:310:GLU:OE2	1:F:340:LYS:HD2	2.03	0.59
1:F:581:GLN:HA	1:F:581:GLN:NE2	2.16	0.59
1:A:165:GLN:NE2	1:A:251:PRO:HG2	2.15	0.59
1:A:270:LYS:O	1:A:273:LYS:HB2	2.03	0.59
1:B:270:LYS:O	1:B:273:LYS:HB2	2.03	0.59
1:B:719:LYS:O	1:B:721:SER:N	2.35	0.59
1:D:308:VAL:HB	1:D:311:HIS:ND1	2.17	0.59
1:D:412:GLU:C	1:D:414:LYS:H	2.04	0.59
1:D:523:LEU:HD11	2:K:144:MET:HG3	1.84	0.59
1:D:584:GLU:O	1:D:587:PRO:HD3	2.01	0.59
1:E:165:GLN:C	1:E:167:LYS:H	2.04	0.59
1:E:263:ASP:O	1:E:266:GLU:N	2.36	0.59
1:E:302:LEU:HD22	1:E:602:PHE:HE1	1.65	0.59
2:H:119:GLU:O	2:H:123:GLU:HB2	2.03	0.59
2:K:58:ASP:O	2:K:60:ASN:N	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:100:ILE:CG2	2:L:101:SER:N	2.64	0.59
1:A:268:MET:HA	1:A:271:LEU:CD1	2.29	0.59
1:A:97:TYR:C	1:A:99:GLU:H	2.06	0.59
1:B:115:LYS:HZ3	1:B:116:GLU:CG	2.13	0.59
1:B:482:GLU:OE2	1:B:482:GLU:HA	2.03	0.59
1:B:746:LYS:O	1:B:750:GLN:HG2	2.03	0.59
1:C:135:VAL:N	1:C:136:PRO:HD2	2.18	0.59
1:C:310:GLU:OE2	1:C:340:LYS:HD2	2.03	0.59
1:C:504:ILE:HD12	1:C:504:ILE:N	2.18	0.59
1:C:525:LYS:HG2	1:C:525:LYS:O	2.02	0.59
1:D:795:LYS:HA	1:D:798:ASP:OD2	2.03	0.59
1:E:131:ARG:H	1:E:170:TYR:HE2	1.51	0.59
1:E:397:GLU:O	1:E:479:LYS:HA	2.02	0.59
1:E:629:ASN:HB3	1:E:632:TYR:CD1	2.38	0.59
1:F:326:ILE:C	1:F:327:LEU:HD12	2.23	0.59
2:H:58:ASP:CB	2:H:62:THR:HG23	2.29	0.59
2:I:119:GLU:O	2:I:123:GLU:HB2	2.02	0.59
1:E:523:LEU:HD11	2:L:144:MET:HG3	1.85	0.59
1:A:178:SER:OG	1:A:179:LEU:N	2.36	0.59
1:A:525:LYS:HG2	1:A:525:LYS:O	2.02	0.59
1:A:565:LYS:HD3	1:A:572:GLY:O	2.03	0.59
1:B:581:GLN:HA	1:B:581:GLN:NE2	2.17	0.59
1:B:615:ILE:O	1:B:619:ILE:HB	2.03	0.59
1:B:97:TYR:C	1:B:99:GLU:H	2.05	0.59
1:D:115:LYS:HZ1	1:D:116:GLU:CG	2.12	0.59
1:D:554:LYS:O	1:D:557:LEU:N	2.35	0.59
1:E:308:VAL:HB	1:E:311:HIS:ND1	2.17	0.59
1:F:254:ARG:HD2	1:F:254:ARG:N	2.17	0.59
1:F:665:LYS:HD2	2:M:11:GLU:CD	2.23	0.59
1:F:715:GLU:HA	1:F:718:ARG:HH12	1.64	0.59
1:C:647:ASP:OD1	2:J:90:ARG:NH2	2.35	0.59
1:B:620:THR:HG22	1:B:621:GLY:N	2.18	0.59
1:C:227:ILE:O	1:C:227:ILE:HG22	2.02	0.59
1:C:434:LEU:C	1:C:434:LEU:CD1	2.71	0.59
1:C:635:ILE:HD12	1:C:635:ILE:N	2.13	0.59
1:D:215:LYS:O	1:D:219:GLU:HB3	2.03	0.59
1:D:620:THR:HG22	1:D:621:GLY:N	2.17	0.59
1:E:301:ALA:C	1:E:303:LYS:N	2.54	0.59
1:E:403:LEU:HB2	1:E:474:ILE:HG22	1.85	0.59
1:F:105:TYR:N	1:F:152:LEU:O	2.27	0.59
1:F:230:ILE:HG13	1:F:237:PHE:CE2	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:686:ASP:O	1:F:689:ALA:HB3	2.02	0.59
2:I:117:THR:O	2:I:119:GLU:N	2.34	0.59
1:A:310:GLU:OE2	1:A:340:LYS:HD2	2.03	0.59
1:A:434:LEU:C	1:A:434:LEU:CD1	2.70	0.59
1:A:615:ILE:O	1:A:619:ILE:HB	2.02	0.59
1:B:215:LYS:O	1:B:219:GLU:HB3	2.03	0.59
1:B:308:VAL:HB	1:B:311:HIS:ND1	2.17	0.59
1:B:403:LEU:HB2	1:B:474:ILE:HG22	1.85	0.59
1:B:686:ASP:O	1:B:689:ALA:HB3	2.02	0.59
1:C:308:VAL:HB	1:C:311:HIS:ND1	2.18	0.59
1:C:302:LEU:HD22	1:C:602:PHE:HE1	1.67	0.59
1:C:615:ILE:O	1:C:619:ILE:HB	2.02	0.59
1:D:413:LEU:HB2	1:D:419:ILE:HG12	1.84	0.59
1:D:482:GLU:OE2	1:D:482:GLU:HA	2.02	0.59
1:D:710:HIS:O	1:D:712:PHE:N	2.35	0.59
2:H:51:MET:HB3	2:H:71:MET:SD	2.42	0.59
1:A:647:ASP:OD1	2:H:90:ARG:NH2	2.36	0.59
2:J:119:GLU:O	2:J:123:GLU:HB2	2.02	0.59
2:K:126:ARG:HH21	2:K:126:ARG:HG3	1.68	0.59
2:L:117:THR:O	2:L:119:GLU:N	2.35	0.59
1:A:523:LEU:HD11	2:H:144:MET:HG3	1.85	0.59
1:B:301:ALA:C	1:B:303:LYS:N	2.55	0.59
1:B:389:LYS:HG2	1:B:393:GLU:HG3	1.85	0.59
1:B:423:LYS:HG3	1:B:424:LYS:H	1.68	0.59
1:B:632:TYR:O	1:B:633:ASN:HB2	2.02	0.59
1:C:178:SER:OG	1:C:179:LEU:N	2.35	0.59
1:C:257:LEU:O	1:C:265:PHE:HB2	2.03	0.59
1:C:263:ASP:O	1:C:266:GLU:N	2.35	0.59
1:C:397:GLU:O	1:C:479:LYS:HA	2.02	0.59
1:D:180:ASP:CG	1:D:181:ILE:N	2.52	0.59
1:D:301:ALA:O	1:D:303:LYS:N	2.36	0.59
1:D:665:LYS:HD2	2:K:11:GLU:CD	2.23	0.59
1:D:665:LYS:O	1:D:668:SER:HB3	2.03	0.59
1:E:620:THR:HG22	1:E:621:GLY:N	2.17	0.59
1:E:686:ASP:O	1:E:689:ALA:HB3	2.02	0.59
1:E:719:LYS:O	1:E:721:SER:N	2.36	0.59
1:F:565:LYS:HD3	1:F:572:GLY:O	2.03	0.59
1:F:718:ARG:HH11	1:F:767:GLN:HE21	1.48	0.59
2:J:100:ILE:CG2	2:J:101:SER:N	2.65	0.59
1:C:694:VAL:CG2	2:J:18:LEU:HD21	2.30	0.59
2:M:51:MET:HB3	2:M:71:MET:SD	2.42	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:257:LEU:O	1:A:265:PHE:HB2	2.03	0.58
1:A:301:ALA:O	1:A:303:LYS:N	2.36	0.58
1:A:302:LEU:HD22	1:A:602:PHE:HE1	1.66	0.58
1:B:131:ARG:H	1:B:170:TYR:HE2	1.50	0.58
1:C:413:LEU:HB2	1:C:419:ILE:HG12	1.85	0.58
1:C:584:GLU:O	1:C:587:PRO:HD3	2.03	0.58
1:C:697:ILE:CD1	1:C:732:ILE:HD13	2.14	0.58
1:D:302:LEU:HD22	1:D:602:PHE:HE1	1.66	0.58
1:D:718:ARG:NH1	1:D:767:GLN:HE21	2.01	0.58
1:D:776:LEU:HD11	1:D:793:PHE:CE1	2.38	0.58
1:E:257:LEU:O	1:E:265:PHE:HB2	2.03	0.58
1:E:326:ILE:C	1:E:327:LEU:HD12	2.23	0.58
1:E:413:LEU:HB2	1:E:419:ILE:HG12	1.84	0.58
1:F:795:LYS:HA	1:F:798:ASP:OD2	2.02	0.58
1:A:535:LYS:HD2	1:A:536:TYR:CD2	2.38	0.58
1:A:554:LYS:O	1:A:557:LEU:N	2.35	0.58
1:A:719:LYS:O	1:A:721:SER:N	2.36	0.58
1:B:131:ARG:N	1:B:170:TYR:HE2	2.01	0.58
1:C:115:LYS:HZ3	1:C:116:GLU:CG	2.12	0.58
1:C:665:LYS:O	1:C:668:SER:HB3	2.03	0.58
1:D:135:VAL:N	1:D:136:PRO:HD2	2.18	0.58
1:D:609:GLU:O	1:D:613:ARG:N	2.34	0.58
1:D:629:ASN:ND2	1:D:630:ARG:N	2.50	0.58
1:D:722:ILE:HG21	1:D:764:LEU:HD21	1.85	0.58
1:E:230:ILE:HG13	1:E:237:PHE:CE2	2.39	0.58
1:E:318:ILE:HG22	1:E:322:LEU:HD12	1.86	0.58
1:E:710:HIS:O	1:E:712:PHE:N	2.33	0.58
1:F:148:GLU:HG3	1:F:149:THR:H	1.67	0.58
1:F:131:ARG:H	1:F:170:TYR:HE2	1.51	0.58
1:F:431:LYS:O	1:F:432:TYR:HD2	1.86	0.58
2:I:51:MET:HB3	2:I:71:MET:SD	2.42	0.58
1:B:413:LEU:HB2	1:B:419:ILE:HG12	1.84	0.58
1:C:301:ALA:O	1:C:303:LYS:N	2.37	0.58
1:D:615:ILE:O	1:D:619:ILE:HB	2.02	0.58
1:E:268:MET:HA	1:E:271:LEU:CD1	2.31	0.58
1:E:525:LYS:O	1:E:525:LYS:HG2	2.03	0.58
1:E:565:LYS:HD3	1:E:572:GLY:O	2.03	0.58
2:K:58:ASP:CB	2:K:62:THR:HG23	2.29	0.58
1:D:647:ASP:OD1	2:K:90:ARG:NH2	2.35	0.58
1:E:647:ASP:OD1	2:L:90:ARG:NH2	2.36	0.58
2:M:126:ARG:HG3	2:M:126:ARG:HH21	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:148:GLU:HG3	1:B:149:THR:H	1.68	0.58
1:C:412:GLU:C	1:C:414:LYS:H	2.04	0.58
1:E:142:VAL:HG13	1:E:154:ILE:HD12	1.86	0.58
1:E:423:LYS:HG3	1:E:424:LYS:H	1.68	0.58
1:E:343:VAL:HG13	1:E:487:PRO:O	2.03	0.58
1:E:764:LEU:C	1:E:766:HIS:H	2.06	0.58
1:F:227:ILE:O	1:F:227:ILE:HG22	2.02	0.58
1:C:665:LYS:HD2	2:J:11:GLU:CD	2.24	0.58
2:J:126:ARG:HH21	2:J:126:ARG:HG3	1.68	0.58
1:A:710:HIS:O	1:A:712:PHE:N	2.35	0.58
1:B:135:VAL:N	1:B:136:PRO:HD2	2.18	0.58
1:B:178:SER:OG	1:B:179:LEU:N	2.36	0.58
1:B:230:ILE:HG13	1:B:237:PHE:CE2	2.38	0.58
1:B:257:LEU:O	1:B:265:PHE:HB2	2.03	0.58
1:B:535:LYS:HD2	1:B:536:TYR:CD2	2.39	0.58
1:C:686:ASP:O	1:C:689:ALA:HB3	2.04	0.58
1:C:746:LYS:O	1:C:750:GLN:HG2	2.03	0.58
1:C:97:TYR:C	1:C:99:GLU:H	2.06	0.58
1:D:504:ILE:HD12	1:D:504:ILE:N	2.19	0.58
1:E:135:VAL:N	1:E:136:PRO:HD2	2.18	0.58
1:E:581:GLN:NE2	1:E:581:GLN:HA	2.17	0.58
1:E:795:LYS:HA	1:E:798:ASP:OD2	2.03	0.58
1:F:135:VAL:N	1:F:136:PRO:HD2	2.19	0.58
1:F:215:LYS:O	1:F:219:GLU:HB3	2.03	0.58
1:F:343:VAL:HG13	1:F:487:PRO:O	2.04	0.58
1:F:609:GLU:O	1:F:613:ARG:N	2.34	0.58
2:L:124:MET:O	2:L:125:ILE:C	2.42	0.58
1:A:326:ILE:C	1:A:327:LEU:HD12	2.24	0.58
1:B:329:ARG:HB3	1:B:330:PRO:CD	2.34	0.58
1:B:565:LYS:HD3	1:B:572:GLY:O	2.03	0.58
1:C:141:PHE:N	1:C:141:PHE:HD1	2.01	0.58
1:C:326:ILE:C	1:C:327:LEU:HD12	2.23	0.58
1:C:795:LYS:HA	1:C:798:ASP:OD2	2.02	0.58
1:D:719:LYS:O	1:D:721:SER:N	2.37	0.58
1:E:215:LYS:O	1:E:219:GLU:HB3	2.03	0.58
1:E:482:GLU:OE2	1:E:482:GLU:HA	2.03	0.58
1:E:609:GLU:OE2	1:E:609:GLU:N	2.37	0.58
1:F:270:LYS:HA	1:F:273:LYS:HD2	1.86	0.58
1:F:665:LYS:O	1:F:668:SER:HB3	2.02	0.58
1:A:671:ARG:HD2	2:H:14:GLU:HG2	1.85	0.58
1:A:135:VAL:N	1:A:136:PRO:HD2	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:214:PHE:CD1	1:A:218:LEU:HD23	2.39	0.58
1:A:408:LEU:O	1:A:410:ILE:N	2.37	0.58
1:A:403:LEU:HB2	1:A:474:ILE:HG22	1.85	0.58
1:A:504:ILE:N	1:A:504:ILE:HD12	2.19	0.58
1:B:263:ASP:O	1:B:266:GLU:N	2.36	0.58
1:C:535:LYS:HD2	1:C:536:TYR:CD2	2.38	0.58
1:C:710:HIS:O	1:C:712:PHE:N	2.34	0.58
1:D:218:LEU:C	1:D:220:LEU:H	2.02	0.58
1:D:501:LEU:HB2	1:D:623:ASP:O	2.03	0.58
1:E:431:LYS:O	1:E:432:TYR:HD2	1.86	0.58
1:E:504:ILE:HD12	1:E:504:ILE:N	2.19	0.58
1:F:423:LYS:HG3	1:F:424:LYS:H	1.68	0.58
1:F:501:LEU:HB2	1:F:623:ASP:O	2.03	0.58
2:I:100:ILE:CG2	2:I:101:SER:N	2.65	0.58
2:M:119:GLU:O	2:M:123:GLU:HB2	2.02	0.58
1:A:115:LYS:NZ	1:A:116:GLU:CG	2.64	0.58
1:A:215:LYS:O	1:A:219:GLU:HB3	2.03	0.58
1:A:308:VAL:HB	1:A:311:HIS:ND1	2.18	0.58
1:A:525:LYS:O	1:A:529:VAL:HG23	2.04	0.58
1:B:609:GLU:O	1:B:613:ARG:N	2.35	0.58
1:B:715:GLU:HA	1:B:718:ARG:HH12	1.64	0.58
1:C:343:VAL:HG13	1:C:487:PRO:O	2.04	0.58
1:D:227:ILE:HG22	1:D:227:ILE:O	2.01	0.58
1:D:301:ALA:C	1:D:303:LYS:N	2.55	0.58
1:D:326:ILE:C	1:D:327:LEU:HD12	2.24	0.58
1:D:535:LYS:HD2	1:D:536:TYR:CD2	2.38	0.58
1:E:632:TYR:O	1:E:633:ASN:HB2	2.03	0.58
1:E:665:LYS:O	1:E:668:SER:HB3	2.03	0.58
1:A:248:TYR:HB2	1:A:257:LEU:CD2	2.34	0.58
1:B:351:HIS:HD2	1:B:386:GLU:OE2	1.87	0.58
1:D:178:SER:OG	1:D:179:LEU:N	2.36	0.58
1:D:270:LYS:HA	1:D:273:LYS:HD2	1.86	0.58
1:E:715:GLU:HA	1:E:718:ARG:HH12	1.65	0.58
1:F:525:LYS:O	1:F:529:VAL:HG23	2.04	0.58
2:L:119:GLU:O	2:L:123:GLU:HB2	2.02	0.58
1:A:351:HIS:HD2	1:A:386:GLU:OE2	1.86	0.58
1:A:584:GLU:O	1:A:587:PRO:HD3	2.03	0.58
1:B:214:PHE:CD1	1:B:218:LEU:HD23	2.39	0.58
1:B:248:TYR:HB2	1:B:257:LEU:CD2	2.33	0.58
1:B:408:LEU:O	1:B:410:ILE:N	2.37	0.58
1:C:230:ILE:HG13	1:C:237:PHE:CE2	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:238:GLN:C	1:C:240:ALA:N	2.57	0.58
1:D:165:GLN:C	1:D:167:LYS:H	2.05	0.58
1:D:403:LEU:HB2	1:D:474:ILE:HG22	1.85	0.58
1:E:270:LYS:HA	1:E:273:LYS:HD2	1.86	0.58
1:E:329:ARG:HB3	1:E:330:PRO:CD	2.34	0.58
1:E:584:GLU:O	1:E:587:PRO:HD3	2.03	0.58
1:E:746:LYS:O	1:E:750:GLN:HG2	2.04	0.58
1:E:97:TYR:C	1:E:99:GLU:H	2.06	0.58
1:F:308:VAL:HB	1:F:311:HIS:ND1	2.18	0.58
1:F:767:GLN:HG2	1:F:768:LYS:H	1.69	0.58
2:I:126:ARG:HG3	2:I:126:ARG:HH21	1.69	0.58
1:A:443:GLU:OE2	1:A:458:LYS:HA	2.04	0.57
1:C:215:LYS:O	1:C:219:GLU:HB3	2.03	0.57
1:C:408:LEU:O	1:C:410:ILE:N	2.37	0.57
1:C:565:LYS:HD3	1:C:572:GLY:O	2.04	0.57
1:D:248:TYR:HB2	1:D:257:LEU:CD2	2.34	0.57
1:D:443:GLU:OE2	1:D:458:LYS:HA	2.04	0.57
1:D:525:LYS:O	1:D:525:LYS:HG2	2.03	0.57
1:D:694:VAL:HG23	1:D:695:LYS:N	2.19	0.57
1:E:130:SER:O	1:E:132:GLY:N	2.38	0.57
1:F:482:GLU:HA	1:F:482:GLU:OE2	2.03	0.57
1:F:609:GLU:N	1:F:609:GLU:OE2	2.37	0.57
1:F:776:LEU:HD11	1:F:793:PHE:CE1	2.39	0.57
1:E:665:LYS:HD2	2:L:11:GLU:CD	2.24	0.57
2:M:100:ILE:HB	2:M:136:VAL:CG2	2.24	0.57
1:A:130:SER:O	1:A:132:GLY:N	2.37	0.57
1:A:142:VAL:HG13	1:A:154:ILE:HD12	1.86	0.57
1:A:230:ILE:HG13	1:A:237:PHE:CE2	2.38	0.57
1:A:270:LYS:HA	1:A:273:LYS:HD2	1.86	0.57
1:A:434:LEU:C	1:A:434:LEU:HD13	2.25	0.57
1:B:176:GLY:C	1:B:178:SER:H	2.07	0.57
1:B:343:VAL:HG13	1:B:487:PRO:O	2.04	0.57
1:B:665:LYS:O	1:B:668:SER:HB3	2.04	0.57
1:B:694:VAL:HG23	1:B:695:LYS:N	2.18	0.57
1:B:90:PRO:HG3	1:B:249:PHE:CE1	2.38	0.57
1:C:122:GLU:HG3	1:C:147:ARG:CB	2.27	0.57
1:C:130:SER:O	1:C:132:GLY:N	2.37	0.57
1:C:270:LYS:HA	1:C:273:LYS:HD2	1.86	0.57
1:C:403:LEU:HB2	1:C:474:ILE:HG22	1.85	0.57
1:C:525:LYS:O	1:C:529:VAL:HG23	2.03	0.57
1:C:327:LEU:CG	1:C:595:ILE:HG12	2.25	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:310:GLU:OE2	1:E:340:LYS:HD2	2.03	0.57
1:E:408:LEU:O	1:E:410:ILE:N	2.37	0.57
1:F:301:ALA:O	1:F:303:LYS:N	2.36	0.57
1:F:413:LEU:HB2	1:F:419:ILE:HG12	1.85	0.57
1:F:523:LEU:HD11	2:M:144:MET:HG3	1.86	0.57
1:F:671:ARG:HD2	2:M:14:GLU:HG2	1.86	0.57
1:A:413:LEU:HB2	1:A:419:ILE:HG12	1.85	0.57
1:A:686:ASP:O	1:A:689:ALA:HB3	2.04	0.57
1:B:301:ALA:O	1:B:303:LYS:N	2.37	0.57
1:C:389:LYS:HG2	1:C:393:GLU:HG3	1.85	0.57
1:D:254:ARG:N	1:D:254:ARG:HD2	2.18	0.57
1:E:131:ARG:N	1:E:170:TYR:HE2	2.01	0.57
1:E:389:LYS:HG2	1:E:393:GLU:HG3	1.86	0.57
1:F:351:HIS:HD2	1:F:386:GLU:OE2	1.87	0.57
1:F:97:TYR:C	1:F:99:GLU:H	2.06	0.57
1:A:329:ARG:HB3	1:A:330:PRO:CD	2.34	0.57
1:A:431:LYS:O	1:A:432:TYR:HD2	1.86	0.57
1:B:99:GLU:C	1:B:101:GLY:H	2.08	0.57
1:C:142:VAL:HG13	1:C:154:ILE:HD12	1.86	0.57
1:C:214:PHE:CD1	1:C:218:LEU:HD23	2.39	0.57
1:C:248:TYR:HB2	1:C:257:LEU:CD2	2.34	0.57
1:C:523:LEU:HD11	2:J:144:MET:HG3	1.85	0.57
1:C:671:ARG:HD2	2:J:14:GLU:HG2	1.87	0.57
1:D:214:PHE:CD1	1:D:218:LEU:HD23	2.39	0.57
1:D:408:LEU:O	1:D:410:ILE:N	2.37	0.57
1:D:565:LYS:HD3	1:D:572:GLY:O	2.04	0.57
1:E:254:ARG:N	1:E:254:ARG:HD2	2.18	0.57
1:E:513:TRP:CZ3	1:E:517:VAL:HG11	2.40	0.57
1:F:75:THR:O	1:F:76:LEU:O	2.22	0.57
1:B:630:ARG:CZ	2:I:83:GLU:HG2	2.35	0.57
1:A:345:THR:CG2	1:A:491:ASP:HA	2.35	0.57
1:B:115:LYS:NZ	1:B:116:GLU:CG	2.64	0.57
1:B:427:ASP:O	1:B:429:GLY:N	2.37	0.57
1:B:431:LYS:O	1:B:432:TYR:HD2	1.87	0.57
1:B:345:THR:CG2	1:B:491:ASP:HA	2.35	0.57
1:C:694:VAL:HG23	1:C:695:LYS:N	2.19	0.57
1:D:115:LYS:NZ	1:D:116:GLU:CG	2.64	0.57
1:D:318:ILE:HG22	1:D:322:LEU:HD12	1.87	0.57
1:E:141:PHE:N	1:E:141:PHE:HD1	2.01	0.57
1:E:443:GLU:OE2	1:E:458:LYS:HA	2.04	0.57
1:E:501:LEU:HB2	1:E:623:ASP:O	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:248:TYR:HB2	1:F:257:LEU:CD2	2.34	0.57
2:H:48:LEU:HA	2:H:51:MET:CE	2.34	0.57
1:A:482:GLU:HA	1:A:482:GLU:OE2	2.03	0.57
1:C:777:TYR:O	1:C:778:LYS:C	2.43	0.57
1:E:535:LYS:HD2	1:E:536:TYR:CD2	2.39	0.57
1:F:214:PHE:CD1	1:F:218:LEU:HD23	2.40	0.57
1:F:257:LEU:O	1:F:265:PHE:HB2	2.04	0.57
1:B:671:ARG:HD2	2:I:14:GLU:HG2	1.86	0.57
2:L:111:ASN:C	2:L:113:GLY:H	2.08	0.57
1:A:141:PHE:N	1:A:141:PHE:HD1	2.02	0.57
1:A:427:ASP:O	1:A:429:GLY:N	2.38	0.57
1:B:495:PHE:O	1:B:496:ALA:HB2	2.05	0.57
1:B:504:ILE:HD12	1:B:504:ILE:N	2.20	0.57
1:B:501:LEU:HB2	1:B:623:ASP:O	2.03	0.57
1:B:75:THR:O	1:B:76:LEU:O	2.22	0.57
1:C:318:ILE:HG22	1:C:322:LEU:HD12	1.87	0.57
1:C:513:TRP:CZ3	1:C:517:VAL:HG11	2.40	0.57
1:C:776:LEU:HD11	1:C:793:PHE:CE1	2.39	0.57
1:E:351:HIS:HD2	1:E:386:GLU:OE2	1.87	0.57
1:E:694:VAL:HG23	1:E:695:LYS:N	2.19	0.57
1:F:199:LEU:C	1:F:201:ASP:N	2.58	0.57
1:F:238:GLN:C	1:F:240:ALA:N	2.57	0.57
1:F:456:LYS:HD3	1:F:471:TRP:CD1	2.40	0.57
2:H:17:SER:O	2:H:20:ASP:N	2.38	0.57
1:B:523:LEU:HD11	2:I:144:MET:HG3	1.85	0.57
1:B:647:ASP:OD1	2:I:90:ARG:NH2	2.37	0.57
2:L:100:ILE:HB	2:L:136:VAL:CG2	2.24	0.57
1:A:423:LYS:HG3	1:A:424:LYS:H	1.68	0.57
1:A:665:LYS:O	1:A:668:SER:HB3	2.04	0.57
1:B:764:LEU:C	1:B:766:HIS:N	2.58	0.57
1:C:345:THR:CG2	1:C:491:ASP:HA	2.35	0.57
1:C:609:GLU:O	1:C:613:ARG:N	2.34	0.57
1:D:257:LEU:O	1:D:265:PHE:HB2	2.04	0.57
1:D:343:VAL:HG13	1:D:487:PRO:O	2.04	0.57
1:D:75:THR:O	1:D:76:LEU:O	2.23	0.57
1:D:777:TYR:O	1:D:778:LYS:C	2.43	0.57
1:E:238:GLN:C	1:E:240:ALA:N	2.58	0.57
1:F:142:VAL:HG13	1:F:154:ILE:HD12	1.87	0.57
1:F:178:SER:OG	1:F:179:LEU:N	2.36	0.57
1:F:504:ILE:HD12	1:F:504:ILE:N	2.20	0.57
2:I:97:ASN:H	2:I:97:ASN:ND2	2.02	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:75:THR:O	1:A:76:LEU:O	2.22	0.57
1:A:776:LEU:HD11	1:A:793:PHE:CE1	2.39	0.57
1:B:130:SER:O	1:B:132:GLY:N	2.38	0.57
1:B:199:LEU:C	1:B:201:ASP:N	2.58	0.57
1:B:327:LEU:HD12	1:B:327:LEU:N	2.20	0.57
1:B:456:LYS:HD3	1:B:471:TRP:CD1	2.40	0.57
1:B:443:GLU:OE2	1:B:458:LYS:HA	2.05	0.57
1:B:525:LYS:O	1:B:529:VAL:HG23	2.04	0.57
1:C:131:ARG:H	1:C:170:TYR:HE2	1.53	0.57
1:C:443:GLU:OE2	1:C:458:LYS:HA	2.05	0.57
1:D:130:SER:O	1:D:132:GLY:N	2.38	0.57
1:D:686:ASP:O	1:D:689:ALA:HB3	2.03	0.57
1:E:525:LYS:O	1:E:529:VAL:HG23	2.04	0.57
1:F:131:ARG:N	1:F:170:TYR:HE2	2.02	0.57
1:F:403:LEU:HB2	1:F:474:ILE:HG22	1.86	0.57
1:F:513:TRP:CZ3	1:F:517:VAL:HG11	2.40	0.57
1:F:550:SER:CB	1:F:553:GLN:HG3	2.34	0.57
1:A:279:ILE:HD13	1:A:279:ILE:H	1.70	0.57
1:B:270:LYS:HA	1:B:273:LYS:HD2	1.87	0.57
1:B:318:ILE:HG22	1:B:322:LEU:HD12	1.86	0.57
1:C:329:ARG:HB3	1:C:330:PRO:CD	2.35	0.57
1:D:427:ASP:O	1:D:429:GLY:N	2.38	0.57
1:D:632:TYR:O	1:D:633:ASN:HB2	2.05	0.57
1:E:141:PHE:N	1:E:141:PHE:CD1	2.73	0.57
1:F:99:GLU:C	1:F:101:GLY:H	2.09	0.57
1:F:141:PHE:CD1	1:F:141:PHE:N	2.73	0.57
1:F:329:ARG:HB3	1:F:330:PRO:CD	2.34	0.57
1:F:357:TRP:HA	1:F:418:ILE:HG23	1.87	0.57
1:F:408:LEU:O	1:F:410:ILE:N	2.38	0.57
2:H:126:ARG:HG3	2:H:126:ARG:HH21	1.69	0.57
2:J:13:LYS:CE	2:J:65:PHE:HB3	2.35	0.57
2:L:31:GLU:O	2:L:35:VAL:HG23	2.05	0.57
2:M:111:ASN:C	2:M:113:GLY:H	2.08	0.57
1:A:131:ARG:H	1:A:170:TYR:HE2	1.52	0.56
1:A:131:ARG:N	1:A:170:TYR:HE2	2.03	0.56
1:A:327:LEU:HD12	1:A:327:LEU:N	2.20	0.56
1:A:609:GLU:N	1:A:609:GLU:OE2	2.37	0.56
1:A:718:ARG:HH12	1:A:767:GLN:HE21	1.52	0.56
1:B:156:ILE:HD12	1:B:156:ILE:N	2.20	0.56
1:B:561:ASN:ND2	1:B:573:ASP:HB3	2.20	0.56
1:C:156:ILE:HD12	1:C:156:ILE:N	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:302:LEU:HB2	1:C:602:PHE:CD1	2.40	0.56
1:D:175:LYS:O	1:D:178:SER:N	2.38	0.56
1:D:310:GLU:OE2	1:D:340:LYS:HD2	2.04	0.56
1:E:214:PHE:CD1	1:E:218:LEU:HD23	2.40	0.56
1:F:279:ILE:HD13	1:F:279:ILE:H	1.70	0.56
1:F:389:LYS:HG2	1:F:393:GLU:HG3	1.86	0.56
1:F:630:ARG:NH1	1:F:630:ARG:HG3	2.20	0.56
2:J:31:GLU:O	2:J:35:VAL:HG23	2.05	0.56
2:K:124:MET:O	2:K:125:ILE:C	2.42	0.56
2:K:99:TYR:CD2	2:K:135:GLN:NE2	2.73	0.56
1:B:175:LYS:O	1:B:178:SER:N	2.38	0.56
1:B:238:GLN:C	1:B:240:ALA:N	2.57	0.56
1:B:609:GLU:N	1:B:609:GLU:OE2	2.38	0.56
1:B:777:TYR:O	1:B:778:LYS:C	2.44	0.56
1:C:279:ILE:H	1:C:279:ILE:HD13	1.71	0.56
1:C:75:THR:O	1:C:76:LEU:O	2.22	0.56
1:D:142:VAL:HG13	1:D:154:ILE:HD12	1.87	0.56
1:E:357:TRP:HA	1:E:418:ILE:HG23	1.87	0.56
1:F:319:ALA:O	1:F:323:ASN:N	2.38	0.56
1:F:345:THR:CG2	1:F:491:ASP:HA	2.35	0.56
1:F:443:GLU:OE2	1:F:458:LYS:HA	2.04	0.56
1:B:665:LYS:HD2	2:I:11:GLU:CD	2.25	0.56
1:A:176:GLY:C	1:A:178:SER:H	2.09	0.56
1:A:389:LYS:HG2	1:A:393:GLU:HG3	1.87	0.56
1:B:513:TRP:CZ3	1:B:517:VAL:HG11	2.40	0.56
1:B:724:ARG:NH1	1:B:724:ARG:HG3	2.13	0.56
1:C:131:ARG:N	1:C:170:TYR:HE2	2.03	0.56
1:C:301:ALA:C	1:C:303:LYS:N	2.55	0.56
1:D:345:THR:CG2	1:D:491:ASP:HA	2.35	0.56
1:F:130:SER:O	1:F:132:GLY:N	2.38	0.56
2:H:111:ASN:C	2:H:113:GLY:H	2.08	0.56
2:K:31:GLU:O	2:K:35:VAL:HG23	2.05	0.56
2:L:13:LYS:HE2	2:L:65:PHE:HB3	1.88	0.56
1:A:456:LYS:HD3	1:A:471:TRP:CD1	2.41	0.56
1:A:694:VAL:HG23	1:A:695:LYS:N	2.19	0.56
1:C:141:PHE:CD1	1:C:141:PHE:N	2.73	0.56
1:C:501:LEU:HB2	1:C:623:ASP:O	2.06	0.56
1:D:176:GLY:C	1:D:178:SER:H	2.08	0.56
1:D:230:ILE:HG13	1:D:237:PHE:CE2	2.39	0.56
1:D:525:LYS:O	1:D:529:VAL:HG23	2.04	0.56
1:D:305:SER:HB2	1:D:594:PHE:CD1	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:609:GLU:OE2	1:D:609:GLU:N	2.37	0.56
1:D:609:GLU:O	1:D:612:GLY:N	2.38	0.56
1:D:767:GLN:HG2	1:D:768:LYS:HG2	1.86	0.56
1:F:535:LYS:HD2	1:F:536:TYR:CD2	2.39	0.56
2:I:124:MET:O	2:I:125:ILE:C	2.43	0.56
1:D:694:VAL:CG2	2:K:18:LEU:HD21	2.33	0.56
2:L:13:LYS:CE	2:L:65:PHE:HB3	2.35	0.56
1:A:559:ARG:HB3	1:A:559:ARG:CZ	2.36	0.56
1:B:254:ARG:HD2	1:B:254:ARG:N	2.18	0.56
1:D:279:ILE:H	1:D:279:ILE:HD13	1.70	0.56
1:E:156:ILE:N	1:E:156:ILE:HD12	2.20	0.56
1:E:175:LYS:O	1:E:178:SER:N	2.38	0.56
1:E:248:TYR:HB2	1:E:257:LEU:CD2	2.34	0.56
1:E:75:THR:O	1:E:76:LEU:O	2.23	0.56
1:F:176:GLY:C	1:F:178:SER:H	2.08	0.56
1:F:263:ASP:O	1:F:265:PHE:N	2.39	0.56
1:F:318:ILE:HG22	1:F:322:LEU:HD12	1.87	0.56
1:F:746:LYS:O	1:F:750:GLN:HG2	2.04	0.56
2:H:114:GLU:OE2	2:H:114:GLU:CA	2.53	0.56
2:H:124:MET:O	2:H:125:ILE:C	2.43	0.56
1:A:495:PHE:O	1:A:496:ALA:HB2	2.05	0.56
1:A:629:ASN:C	1:A:629:ASN:ND2	2.59	0.56
1:A:777:TYR:O	1:A:778:LYS:C	2.43	0.56
1:B:142:VAL:HG13	1:B:154:ILE:HD12	1.87	0.56
1:B:327:LEU:HG	1:B:595:ILE:CG1	2.25	0.56
1:B:559:ARG:CZ	1:B:559:ARG:HB3	2.35	0.56
1:B:629:ASN:ND2	1:B:629:ASN:C	2.58	0.56
1:C:324:THR:HB	1:C:499:PRO:CA	2.35	0.56
1:C:609:GLU:N	1:C:609:GLU:OE2	2.37	0.56
1:C:619:ILE:HG22	1:C:620:THR:N	2.21	0.56
1:D:64:ASN:N	1:D:64:ASN:HD22	2.03	0.56
1:E:279:ILE:HD13	1:E:279:ILE:H	1.69	0.56
1:E:293:ILE:HD11	1:E:617:LYS:CD	2.36	0.56
1:E:540:ARG:HD3	1:E:627:TYR:CZ	2.40	0.56
1:F:561:ASN:ND2	1:F:573:ASP:HB3	2.20	0.56
2:I:48:LEU:HA	2:I:51:MET:CE	2.34	0.56
1:D:671:ARG:HD2	2:K:14:GLU:HG2	1.88	0.56
1:A:99:GLU:C	1:A:101:GLY:H	2.08	0.56
1:A:141:PHE:N	1:A:141:PHE:CD1	2.73	0.56
1:A:156:ILE:N	1:A:156:ILE:HD12	2.21	0.56
1:A:343:VAL:HG13	1:A:487:PRO:O	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:311:HIS:O	1:B:314:ALA:HB3	2.06	0.56
1:B:639:ASN:N	1:B:639:ASN:ND2	2.32	0.56
1:C:263:ASP:O	1:C:265:PHE:N	2.39	0.56
1:C:718:ARG:NH1	1:C:767:GLN:HE21	2.03	0.56
1:C:78:LYS:HG3	1:C:79:ILE:N	2.21	0.56
1:D:431:LYS:O	1:D:432:TYR:HD2	1.87	0.56
1:E:189:ASP:C	1:E:191:GLU:N	2.51	0.56
1:E:434:LEU:HD13	1:E:444:PHE:O	2.05	0.56
1:E:456:LYS:HD3	1:E:471:TRP:CD1	2.41	0.56
1:E:305:SER:HB2	1:E:594:PHE:CD1	2.41	0.56
1:F:427:ASP:O	1:F:429:GLY:N	2.38	0.56
2:I:17:SER:O	2:I:20:ASP:N	2.38	0.56
2:I:13:LYS:HE2	2:I:65:PHE:HB3	1.88	0.56
1:E:694:VAL:HG23	2:L:18:LEU:HD11	1.88	0.56
2:M:31:GLU:O	2:M:35:VAL:HG23	2.06	0.56
1:C:692:GLU:HA	1:C:692:GLU:OE2	2.04	0.56
1:E:327:LEU:HD12	1:E:327:LEU:N	2.21	0.56
1:E:776:LEU:HD11	1:E:793:PHE:CE1	2.39	0.56
1:F:197:LYS:HB3	1:F:197:LYS:HZ2	1.71	0.56
1:F:327:LEU:N	1:F:327:LEU:HD12	2.21	0.56
2:J:124:MET:O	2:J:125:ILE:C	2.43	0.56
2:M:13:LYS:HE2	2:M:65:PHE:HB3	1.88	0.56
1:A:630:ARG:CZ	2:H:83:GLU:HG2	2.35	0.56
1:A:71:PHE:CG	1:A:73:ASN:HB2	2.41	0.56
1:B:122:GLU:HB2	1:B:147:ARG:HG3	1.88	0.56
1:B:718:ARG:NH1	1:B:767:GLN:NE2	2.53	0.56
1:C:148:GLU:HG3	1:C:149:THR:H	1.68	0.56
1:C:105:TYR:N	1:C:152:LEU:O	2.27	0.56
1:C:175:LYS:O	1:C:178:SER:N	2.38	0.56
1:C:351:HIS:HD2	1:C:386:GLU:OE2	1.87	0.56
1:D:238:GLN:C	1:D:240:ALA:N	2.57	0.56
1:D:501:LEU:HD11	2:K:108:VAL:HG13	1.88	0.56
1:D:513:TRP:CZ3	1:D:517:VAL:HG11	2.40	0.56
1:E:609:GLU:O	1:E:612:GLY:N	2.39	0.56
1:E:630:ARG:NH1	1:E:630:ARG:HG3	2.20	0.56
1:E:99:GLU:C	1:E:101:GLY:H	2.08	0.56
1:F:115:LYS:NZ	1:F:116:GLU:CG	2.65	0.56
1:F:540:ARG:HD3	1:F:627:TYR:CZ	2.41	0.56
1:F:692:GLU:HA	1:F:692:GLU:OE2	2.05	0.56
2:J:111:ASN:C	2:J:113:GLY:H	2.08	0.56
1:E:671:ARG:HD2	2:L:14:GLU:HG2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:48:LEU:HA	2:M:51:MET:CE	2.34	0.56
1:A:254:ARG:HD2	1:A:254:ARG:N	2.19	0.56
1:A:513:TRP:CZ3	1:A:517:VAL:HG11	2.41	0.56
1:B:318:ILE:H	1:B:318:ILE:CD1	2.11	0.56
1:B:305:SER:HB2	1:B:594:PHE:CD1	2.41	0.56
1:B:609:GLU:O	1:B:612:GLY:N	2.39	0.56
1:C:285:LYS:HG3	1:C:286:GLU:N	2.21	0.56
1:C:356:ASP:N	1:C:356:ASP:OD2	2.39	0.56
1:C:431:LYS:O	1:C:432:TYR:HD2	1.87	0.56
1:C:540:ARG:HD3	1:C:627:TYR:CZ	2.41	0.56
1:C:630:ARG:CZ	2:J:83:GLU:HG2	2.35	0.56
1:D:375:GLY:O	1:D:377:GLN:N	2.39	0.56
1:E:186:LYS:O	1:E:188:LEU:O	2.23	0.56
1:E:719:LYS:O	1:E:722:ILE:N	2.39	0.56
1:F:275:GLY:HA2	1:F:278:LYS:HE2	1.88	0.56
1:F:722:ILE:HG21	1:F:764:LEU:HD21	1.88	0.56
2:J:65:PHE:N	2:J:65:PHE:CD1	2.70	0.56
2:K:111:ASN:C	2:K:113:GLY:H	2.08	0.56
1:A:175:LYS:O	1:A:178:SER:N	2.38	0.56
1:A:692:GLU:OE2	1:A:692:GLU:HA	2.06	0.56
1:B:186:LYS:O	1:B:188:LEU:O	2.23	0.56
1:B:279:ILE:HD13	1:B:279:ILE:H	1.71	0.56
1:B:357:TRP:HA	1:B:418:ILE:HG23	1.87	0.56
1:B:722:ILE:HG21	1:B:764:LEU:HD21	1.87	0.56
1:C:275:GLY:HA2	1:C:278:LYS:HE2	1.88	0.56
1:C:357:TRP:HA	1:C:418:ILE:HG23	1.87	0.56
1:D:351:HIS:HD2	1:D:386:GLU:OE2	1.88	0.56
1:D:635:ILE:HD12	1:D:635:ILE:H	1.70	0.56
1:E:319:ALA:O	1:E:323:ASN:N	2.39	0.56
1:E:427:ASP:O	1:E:429:GLY:N	2.38	0.56
1:E:345:THR:CG2	1:E:491:ASP:HA	2.36	0.56
1:E:561:ASN:ND2	1:E:573:ASP:HB3	2.21	0.56
1:E:692:GLU:OE2	1:E:692:GLU:HA	2.05	0.56
1:F:115:LYS:HZ1	1:F:116:GLU:HG2	1.70	0.56
1:F:285:LYS:HG3	1:F:286:GLU:N	2.21	0.56
1:F:559:ARG:HB3	1:F:559:ARG:CZ	2.35	0.56
1:F:694:VAL:HG23	1:F:695:LYS:N	2.20	0.56
2:J:48:LEU:HA	2:J:51:MET:CE	2.34	0.56
2:J:13:LYS:HE2	2:J:65:PHE:HB3	1.87	0.56
1:A:609:GLU:O	1:A:612:GLY:N	2.39	0.55
1:A:719:LYS:O	1:A:722:ILE:N	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:776:LEU:HD11	1:B:793:PHE:CE1	2.39	0.55
1:C:456:LYS:HD3	1:C:471:TRP:CD1	2.41	0.55
1:D:156:ILE:HD12	1:D:156:ILE:N	2.21	0.55
1:D:285:LYS:HG3	1:D:286:GLU:N	2.22	0.55
1:D:324:THR:HB	1:D:499:PRO:CA	2.36	0.55
1:D:356:ASP:OD2	1:D:356:ASP:N	2.39	0.55
1:E:105:TYR:N	1:E:152:LEU:O	2.28	0.55
1:E:550:SER:CB	1:E:553:GLN:HG3	2.35	0.55
1:E:777:TYR:O	1:E:778:LYS:C	2.44	0.55
1:F:156:ILE:HD12	1:F:156:ILE:N	2.21	0.55
2:I:13:LYS:CE	2:I:65:PHE:HB3	2.36	0.55
2:I:31:GLU:O	2:I:35:VAL:HG23	2.06	0.55
1:A:311:HIS:O	1:A:314:ALA:HB3	2.06	0.55
1:B:375:GLY:O	1:B:377:GLN:N	2.39	0.55
1:C:719:LYS:O	1:C:722:ILE:N	2.38	0.55
1:D:389:LYS:HG2	1:D:393:GLU:HG3	1.87	0.55
1:E:176:GLY:C	1:E:178:SER:H	2.08	0.55
1:E:375:GLY:O	1:E:377:GLN:N	2.39	0.55
1:F:134:LYS:O	1:F:135:VAL:HG12	2.07	0.55
1:F:175:LYS:O	1:F:178:SER:N	2.38	0.55
1:F:671:ARG:HH12	1:F:677:GLY:HA3	1.71	0.55
1:F:777:TYR:O	1:F:778:LYS:C	2.44	0.55
2:K:13:LYS:CE	2:K:65:PHE:HB3	2.36	0.55
2:M:13:LYS:CE	2:M:65:PHE:HB3	2.37	0.55
1:A:305:SER:HB2	1:A:594:PHE:CD1	2.41	0.55
1:C:99:GLU:C	1:C:101:GLY:H	2.08	0.55
1:C:176:GLY:C	1:C:178:SER:H	2.09	0.55
1:C:216:GLU:HG3	1:C:217:LYS:HG2	1.89	0.55
1:C:427:ASP:O	1:C:429:GLY:N	2.38	0.55
1:C:501:LEU:HD11	2:J:108:VAL:HG13	1.88	0.55
1:D:99:GLU:C	1:D:101:GLY:H	2.08	0.55
1:D:559:ARG:CZ	1:D:559:ARG:HB3	2.36	0.55
1:E:619:ILE:HG22	1:E:620:THR:N	2.21	0.55
1:E:678:VAL:HG22	1:E:745:TYR:CD2	2.41	0.55
1:F:495:PHE:O	1:F:496:ALA:HB2	2.06	0.55
2:H:13:LYS:CE	2:H:65:PHE:HB3	2.36	0.55
2:H:13:LYS:HE2	2:H:65:PHE:HB3	1.88	0.55
2:H:99:TYR:CD2	2:H:135:GLN:NE2	2.75	0.55
2:I:111:ASN:C	2:I:113:GLY:H	2.09	0.55
1:A:501:LEU:HB2	1:A:623:ASP:O	2.05	0.55
1:A:671:ARG:HH12	1:A:677:GLY:HA3	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:105:TYR:CB	1:B:153:ILE:HG12	2.25	0.55
1:C:134:LYS:O	1:C:135:VAL:HG12	2.07	0.55
1:C:199:LEU:C	1:C:201:ASP:N	2.59	0.55
1:C:311:HIS:O	1:C:314:ALA:HB3	2.07	0.55
1:D:263:ASP:O	1:D:265:PHE:N	2.39	0.55
1:D:357:TRP:HA	1:D:418:ILE:HG23	1.87	0.55
1:D:495:PHE:O	1:D:496:ALA:HB2	2.07	0.55
1:E:296:LEU:HD22	1:E:606:LYS:HE2	1.89	0.55
1:E:722:ILE:HG21	1:E:764:LEU:HD21	1.88	0.55
1:F:375:GLY:O	1:F:377:GLN:N	2.40	0.55
1:F:694:VAL:HG23	2:M:18:LEU:HD11	1.89	0.55
1:A:501:LEU:HD11	2:H:108:VAL:HG13	1.88	0.55
2:M:97:ASN:H	2:M:97:ASN:ND2	2.05	0.55
1:A:148:GLU:HG3	1:A:149:THR:H	1.69	0.55
1:A:375:GLY:O	1:A:377:GLN:N	2.40	0.55
1:B:296:LEU:HD22	1:B:606:LYS:HE2	1.88	0.55
1:B:540:ARG:HD3	1:B:627:TYR:CZ	2.41	0.55
1:C:747:ASN:O	1:C:750:GLN:HB2	2.07	0.55
1:D:293:ILE:HD11	1:D:617:LYS:CD	2.37	0.55
1:D:619:ILE:HG22	1:D:620:THR:N	2.20	0.55
1:E:311:HIS:O	1:E:314:ALA:HB3	2.06	0.55
1:F:481:VAL:O	1:F:484:VAL:HG23	2.06	0.55
1:F:305:SER:HB2	1:F:594:PHE:CD1	2.41	0.55
1:F:293:ILE:HD11	1:F:617:LYS:CD	2.37	0.55
2:J:17:SER:O	2:J:20:ASP:N	2.37	0.55
1:A:619:ILE:HG22	1:A:620:THR:N	2.19	0.55
1:B:550:SER:CB	1:B:553:GLN:HG3	2.34	0.55
1:B:719:LYS:O	1:B:722:ILE:N	2.40	0.55
1:C:180:ASP:CG	1:C:181:ILE:N	2.54	0.55
1:C:305:SER:HB2	1:C:594:PHE:CD1	2.41	0.55
1:C:629:ASN:C	1:C:629:ASN:ND2	2.58	0.55
1:D:747:ASN:O	1:D:750:GLN:HB2	2.07	0.55
1:E:115:LYS:NZ	1:E:116:GLU:CG	2.64	0.55
1:E:609:GLU:O	1:E:613:ARG:N	2.35	0.55
1:F:456:LYS:CB	1:F:471:TRP:H	2.15	0.55
1:F:296:LEU:HD22	1:F:606:LYS:HE2	1.89	0.55
1:F:630:ARG:CZ	2:M:83:GLU:HG2	2.36	0.55
1:F:71:PHE:CG	1:F:73:ASN:HB2	2.42	0.55
2:H:65:PHE:HD1	2:H:65:PHE:H	1.50	0.55
1:C:694:VAL:HG23	2:J:18:LEU:HD11	1.88	0.55
2:M:28:THR:HB	2:M:30:LYS:NZ	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:173:ILE:HG23	1:A:174:GLY:H	1.72	0.55
1:A:357:TRP:HA	1:A:418:ILE:HG23	1.87	0.55
1:A:561:ASN:ND2	1:A:573:ASP:HB3	2.22	0.55
1:A:540:ARG:HD3	1:A:627:TYR:CZ	2.41	0.55
1:A:747:ASN:O	1:A:750:GLN:HB2	2.07	0.55
1:B:134:LYS:O	1:B:135:VAL:HG12	2.07	0.55
1:C:155:ASN:C	1:C:156:ILE:HD12	2.27	0.55
1:D:561:ASN:ND2	1:D:573:ASP:HB3	2.22	0.55
1:E:263:ASP:O	1:E:265:PHE:N	2.40	0.55
1:E:372:LYS:O	1:E:374:HIS:N	2.40	0.55
1:E:481:VAL:O	1:E:484:VAL:HG23	2.06	0.55
1:E:495:PHE:O	1:E:496:ALA:HB2	2.07	0.55
1:F:311:HIS:O	1:F:314:ALA:N	2.40	0.55
1:F:629:ASN:C	1:F:629:ASN:ND2	2.58	0.55
2:I:21:LYS:C	2:I:23:GLY:H	2.10	0.55
2:K:48:LEU:HA	2:K:51:MET:CE	2.34	0.55
2:M:99:TYR:CD2	2:M:135:GLN:NE2	2.74	0.55
1:A:238:GLN:C	1:A:240:ALA:N	2.57	0.55
1:B:692:GLU:HA	1:B:692:GLU:OE2	2.06	0.55
1:C:122:GLU:HB2	1:C:147:ARG:HG3	1.88	0.55
1:D:719:LYS:O	1:D:722:ILE:N	2.39	0.55
1:D:78:LYS:HG3	1:D:79:ILE:N	2.22	0.55
1:F:324:THR:HB	1:F:499:PRO:CA	2.35	0.55
1:F:619:ILE:HG22	1:F:620:THR:N	2.22	0.55
1:F:724:ARG:NH1	1:F:724:ARG:HG3	2.13	0.55
2:K:28:THR:HB	2:K:30:LYS:NZ	2.21	0.55
2:K:65:PHE:HD1	2:K:65:PHE:H	1.50	0.55
2:L:21:LYS:C	2:L:23:GLY:H	2.10	0.55
1:A:318:ILE:HG22	1:A:322:LEU:HD12	1.88	0.55
1:A:356:ASP:N	1:A:356:ASP:OD2	2.40	0.55
1:B:285:LYS:HG3	1:B:286:GLU:N	2.22	0.55
1:B:319:ALA:O	1:B:323:ASN:N	2.37	0.55
1:B:71:PHE:CG	1:B:73:ASN:HB2	2.42	0.55
1:C:405:LEU:HD12	1:C:405:LEU:N	2.22	0.55
1:C:561:ASN:ND2	1:C:573:ASP:HB3	2.22	0.55
1:C:71:PHE:CG	1:C:73:ASN:HB2	2.42	0.55
1:D:311:HIS:O	1:D:314:ALA:HB3	2.06	0.55
1:D:329:ARG:HB3	1:D:330:PRO:CD	2.36	0.55
1:D:456:LYS:HD3	1:D:471:TRP:CD1	2.42	0.55
1:E:148:GLU:HG3	1:E:149:THR:H	1.72	0.55
1:E:155:ASN:C	1:E:156:ILE:HD12	2.27	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:115:LYS:HB2	1:F:118:GLN:HG2	1.88	0.55
1:F:78:LYS:HG3	1:F:79:ILE:N	2.21	0.55
2:K:114:GLU:OE2	2:K:114:GLU:CA	2.54	0.55
1:B:155:ASN:C	1:B:156:ILE:HD12	2.27	0.55
1:C:494:LEU:HD13	1:C:497:LEU:HD21	1.88	0.55
1:D:115:LYS:C	1:D:117:LEU:H	2.11	0.55
1:D:216:GLU:HG3	1:D:217:LYS:HG2	1.89	0.55
1:E:302:LEU:HB2	1:E:602:PHE:CD1	2.39	0.55
1:E:636:ALA:O	1:E:640:LYS:N	2.40	0.55
1:E:767:GLN:HG2	1:E:768:LYS:N	2.22	0.55
1:F:311:HIS:O	1:F:314:ALA:HB3	2.07	0.55
1:F:688:PHE:CD2	1:F:688:PHE:C	2.81	0.55
1:F:719:LYS:O	1:F:722:ILE:N	2.40	0.55
2:H:21:LYS:C	2:H:23:GLY:H	2.11	0.55
2:H:31:GLU:O	2:H:35:VAL:HG23	2.07	0.55
2:J:21:LYS:C	2:J:23:GLY:H	2.11	0.55
2:L:17:SER:O	2:L:20:ASP:N	2.38	0.55
1:A:134:LYS:O	1:A:135:VAL:HG12	2.07	0.54
1:A:105:TYR:N	1:A:152:LEU:O	2.28	0.54
1:A:238:GLN:C	1:A:240:ALA:H	2.10	0.54
1:A:263:ASP:O	1:A:265:PHE:N	2.40	0.54
1:A:285:LYS:HG3	1:A:286:GLU:N	2.22	0.54
1:A:630:ARG:HG3	1:A:630:ARG:NH1	2.22	0.54
1:B:115:LYS:HB2	1:B:118:GLN:HG2	1.88	0.54
1:B:216:GLU:HG3	1:B:217:LYS:HG2	1.89	0.54
1:B:597:ASN:CG	1:B:599:GLU:H	2.10	0.54
1:B:636:ALA:O	1:B:640:LYS:N	2.40	0.54
1:C:115:LYS:HB2	1:C:118:GLN:HG2	1.88	0.54
1:C:190:PRO:O	1:C:195:LEU:HD13	2.08	0.54
1:C:434:LEU:C	1:C:434:LEU:HD12	2.27	0.54
1:C:630:ARG:HG3	1:C:630:ARG:NH1	2.22	0.54
1:C:671:ARG:HH12	1:C:677:GLY:HA3	1.72	0.54
1:D:630:ARG:HG3	1:D:630:ARG:NH1	2.21	0.54
1:D:713:SER:O	1:D:716:LYS:N	2.39	0.54
1:E:529:VAL:O	1:E:532:LEU:HB2	2.08	0.54
1:F:356:ASP:OD2	1:F:356:ASP:N	2.39	0.54
1:F:747:ASN:O	1:F:750:GLN:HB2	2.07	0.54
2:K:97:ASN:H	2:K:97:ASN:ND2	2.04	0.54
2:M:114:GLU:CA	2:M:114:GLU:OE2	2.55	0.54
1:A:115:LYS:C	1:A:117:LEU:H	2.11	0.54
1:A:311:HIS:O	1:A:314:ALA:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:694:VAL:HG23	2:H:18:LEU:HD11	1.88	0.54
1:B:481:VAL:O	1:B:484:VAL:HG23	2.07	0.54
1:C:248:TYR:HB2	1:C:257:LEU:HD23	1.90	0.54
1:C:375:GLY:O	1:C:377:GLN:N	2.40	0.54
1:D:327:LEU:HD12	1:D:327:LEU:N	2.21	0.54
1:E:285:LYS:HG3	1:E:286:GLU:N	2.22	0.54
1:E:629:ASN:ND2	1:E:629:ASN:C	2.59	0.54
1:F:248:TYR:HB2	1:F:257:LEU:HD23	1.90	0.54
2:J:114:GLU:CA	2:J:114:GLU:OE2	2.54	0.54
2:K:5:THR:HG23	2:K:8:GLN:H	1.72	0.54
2:L:48:LEU:HA	2:L:51:MET:CE	2.34	0.54
1:A:293:ILE:HD11	1:A:617:LYS:CD	2.38	0.54
1:A:629:ASN:HB3	1:A:632:TYR:CE1	2.42	0.54
1:B:356:ASP:N	1:B:356:ASP:OD2	2.39	0.54
1:C:279:ILE:CD1	1:C:279:ILE:H	2.21	0.54
1:C:501:LEU:CD1	2:J:108:VAL:HG13	2.37	0.54
1:C:559:ARG:HB3	1:C:559:ARG:CZ	2.37	0.54
1:C:609:GLU:O	1:C:612:GLY:N	2.41	0.54
1:C:293:ILE:HD11	1:C:617:LYS:CD	2.38	0.54
1:D:296:LEU:HD22	1:D:606:LYS:HE2	1.88	0.54
1:E:134:LYS:O	1:E:135:VAL:HG12	2.08	0.54
1:E:356:ASP:N	1:E:356:ASP:OD2	2.39	0.54
1:E:405:LEU:HD12	1:E:405:LEU:N	2.23	0.54
1:E:559:ARG:HB3	1:E:559:ARG:CZ	2.36	0.54
2:I:65:PHE:HD1	2:I:65:PHE:H	1.50	0.54
2:J:97:ASN:ND2	2:J:97:ASN:H	2.05	0.54
2:K:21:LYS:C	2:K:23:GLY:H	2.11	0.54
2:K:36:MET:HE1	2:K:43:PRO:HG3	1.87	0.54
2:L:28:THR:HB	2:L:30:LYS:NZ	2.22	0.54
2:L:97:ASN:H	2:L:97:ASN:ND2	2.03	0.54
1:A:667:LEU:HD13	1:A:678:VAL:HG21	1.89	0.54
1:A:715:GLU:HA	1:A:718:ARG:HH12	1.64	0.54
1:B:405:LEU:HD12	1:B:405:LEU:N	2.23	0.54
1:B:629:ASN:HB3	1:B:632:TYR:CE1	2.43	0.54
1:C:724:ARG:NH1	1:C:724:ARG:HG3	2.13	0.54
1:D:134:LYS:O	1:D:135:VAL:HG12	2.07	0.54
1:D:295:VAL:HG23	1:D:297:LYS:HG3	1.89	0.54
1:F:216:GLU:HG3	1:F:217:LYS:HG2	1.89	0.54
1:F:302:LEU:HB2	1:F:602:PHE:CD1	2.41	0.54
1:F:529:VAL:O	1:F:532:LEU:HB2	2.08	0.54
1:F:561:ASN:CG	1:F:573:ASP:HB3	2.28	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:501:LEU:HD11	2:M:108:VAL:HG13	1.89	0.54
2:M:21:LYS:C	2:M:23:GLY:H	2.11	0.54
1:A:115:LYS:HB2	1:A:118:GLN:HG2	1.88	0.54
1:A:188:LEU:CD2	1:A:188:LEU:N	2.52	0.54
1:A:216:GLU:HG3	1:A:217:LYS:HG2	1.88	0.54
1:A:372:LYS:O	1:A:374:HIS:N	2.39	0.54
1:B:238:GLN:C	1:B:240:ALA:H	2.11	0.54
1:B:293:ILE:HD11	1:B:617:LYS:CD	2.37	0.54
1:B:355:SER:HB2	1:B:371:SER:HA	1.90	0.54
1:C:372:LYS:O	1:C:374:HIS:N	2.39	0.54
1:C:535:LYS:HD2	1:C:536:TYR:CE2	2.42	0.54
1:D:372:LYS:O	1:D:374:HIS:N	2.39	0.54
1:D:535:LYS:HD2	1:D:536:TYR:CE2	2.42	0.54
1:D:597:ASN:CG	1:D:599:GLU:H	2.11	0.54
1:D:629:ASN:C	1:D:629:ASN:ND2	2.60	0.54
1:E:501:LEU:HD11	2:L:108:VAL:HG13	1.90	0.54
1:E:667:LEU:HD13	1:E:678:VAL:HG21	1.89	0.54
1:E:71:PHE:CG	1:E:73:ASN:HB2	2.42	0.54
1:E:78:LYS:HG3	1:E:79:ILE:N	2.22	0.54
1:F:155:ASN:C	1:F:156:ILE:HD12	2.28	0.54
2:J:28:THR:HB	2:J:30:LYS:NZ	2.23	0.54
2:J:65:PHE:H	2:J:65:PHE:HD1	1.50	0.54
2:K:24:ASP:OD1	2:K:25:GLY:N	2.35	0.54
2:M:65:PHE:H	2:M:65:PHE:HD1	1.50	0.54
1:A:105:TYR:CB	1:A:153:ILE:HG12	2.26	0.54
1:A:319:ALA:O	1:A:323:ASN:N	2.39	0.54
1:A:327:LEU:HG	1:A:595:ILE:CG1	2.27	0.54
1:A:636:ALA:O	1:A:640:LYS:N	2.40	0.54
1:B:327:LEU:CG	1:B:595:ILE:HG12	2.25	0.54
1:C:550:SER:CB	1:C:553:GLN:HG3	2.37	0.54
1:F:609:GLU:O	1:F:612:GLY:N	2.39	0.54
1:D:501:LEU:CD1	2:K:108:VAL:HG13	2.37	0.54
2:K:13:LYS:HE2	2:K:65:PHE:HB3	1.89	0.54
1:A:481:VAL:O	1:A:484:VAL:HG23	2.08	0.54
1:B:427:ASP:C	1:B:429:GLY:H	2.11	0.54
1:C:115:LYS:NZ	1:C:116:GLU:CG	2.65	0.54
1:D:540:ARG:HD3	1:D:627:TYR:CZ	2.42	0.54
1:E:115:LYS:HB2	1:E:118:GLN:HG2	1.89	0.54
1:E:513:TRP:CH2	2:L:113:GLY:O	2.61	0.54
1:F:295:VAL:HG23	1:F:297:LYS:HG3	1.89	0.54
2:I:114:GLU:CA	2:I:114:GLU:OE2	2.54	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:117:THR:C	2:K:119:GLU:H	2.11	0.54
2:M:17:SER:O	2:M:20:ASP:N	2.37	0.54
2:M:87:GLU:C	2:M:89:PHE:H	2.10	0.54
2:M:5:THR:HG23	2:M:8:GLN:H	1.73	0.54
1:A:155:ASN:C	1:A:156:ILE:HD12	2.28	0.54
1:A:597:ASN:CG	1:A:599:GLU:H	2.11	0.54
1:A:764:LEU:O	1:A:766:HIS:N	2.40	0.54
1:B:115:LYS:C	1:B:117:LEU:H	2.11	0.54
1:B:263:ASP:O	1:B:265:PHE:N	2.40	0.54
1:C:456:LYS:CB	1:C:471:TRP:H	2.17	0.54
1:C:495:PHE:O	1:C:496:ALA:HB2	2.08	0.54
1:C:688:PHE:C	1:C:688:PHE:CD2	2.81	0.54
1:D:141:PHE:CD1	1:D:141:PHE:N	2.73	0.54
1:D:173:ILE:HG23	1:D:174:GLY:H	1.72	0.54
1:D:311:HIS:O	1:D:314:ALA:N	2.40	0.54
1:D:319:ALA:O	1:D:323:ASN:N	2.38	0.54
1:D:427:ASP:C	1:D:429:GLY:H	2.11	0.54
1:D:700:TYR:CD1	1:D:727:GLN:HB3	2.43	0.54
1:D:71:PHE:CG	1:D:73:ASN:HB2	2.43	0.54
1:E:355:SER:HB2	1:E:371:SER:HA	1.90	0.54
1:F:629:ASN:HB3	1:F:632:TYR:CE1	2.42	0.54
2:H:5:THR:HG23	2:H:8:GLN:H	1.72	0.54
2:M:124:MET:O	2:M:125:ILE:C	2.44	0.54
1:A:529:VAL:O	1:A:532:LEU:HB2	2.08	0.54
1:A:722:ILE:HG21	1:A:764:LEU:HD21	1.89	0.54
1:B:190:PRO:O	1:B:195:LEU:HD13	2.08	0.54
1:B:515:LYS:NZ	1:B:515:LYS:HB3	2.23	0.54
1:C:105:TYR:CB	1:C:153:ILE:HG12	2.24	0.54
1:C:296:LEU:HD22	1:C:606:LYS:HE2	1.90	0.54
1:C:597:ASN:CG	1:C:599:GLU:H	2.11	0.54
1:C:722:ILE:HD13	1:C:764:LEU:CD2	2.38	0.54
1:D:115:LYS:HB2	1:D:118:GLN:HG2	1.89	0.54
1:D:529:VAL:O	1:D:532:LEU:HB2	2.08	0.54
1:D:629:ASN:HB3	1:D:632:TYR:CE1	2.43	0.54
1:D:671:ARG:HH12	1:D:677:GLY:HA3	1.72	0.54
1:D:692:GLU:OE2	1:D:692:GLU:HA	2.07	0.54
1:F:767:GLN:CG	1:F:768:LYS:N	2.65	0.54
2:L:64:ASP:OD1	2:L:66:PRO:HD2	2.08	0.54
1:A:456:LYS:CB	1:A:471:TRP:H	2.16	0.54
1:A:535:LYS:HD2	1:A:536:TYR:CE2	2.43	0.54
1:A:296:LEU:HD22	1:A:606:LYS:HE2	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:311:HIS:O	1:B:314:ALA:N	2.41	0.54
1:B:619:ILE:HG22	1:B:620:THR:N	2.22	0.54
1:B:630:ARG:HG3	1:B:630:ARG:NH1	2.22	0.54
1:C:197:LYS:HB3	1:C:197:LYS:HZ2	1.72	0.54
1:C:311:HIS:O	1:C:314:ALA:N	2.40	0.54
1:C:481:VAL:O	1:C:484:VAL:HG23	2.06	0.54
1:D:248:TYR:HB2	1:D:257:LEU:HD23	1.90	0.54
1:D:504:ILE:O	1:D:507:GLN:HB3	2.08	0.54
1:D:89:ILE:HG21	1:D:175:LYS:HE2	1.90	0.54
1:E:311:HIS:O	1:E:314:ALA:N	2.40	0.54
1:E:456:LYS:CB	1:E:471:TRP:H	2.16	0.54
1:F:381:GLU:C	1:F:383:GLY:H	2.12	0.54
1:F:630:ARG:HG3	1:F:630:ARG:HH11	1.73	0.54
2:H:28:THR:HB	2:H:30:LYS:NZ	2.22	0.54
2:J:87:GLU:C	2:J:89:PHE:H	2.11	0.54
1:A:501:LEU:CD1	2:H:108:VAL:HG13	2.38	0.53
1:B:248:TYR:HB2	1:B:257:LEU:HD23	1.90	0.53
1:B:456:LYS:CB	1:B:471:TRP:H	2.16	0.53
1:B:529:VAL:O	1:B:532:LEU:HB2	2.08	0.53
1:B:78:LYS:HG3	1:B:79:ILE:N	2.22	0.53
1:C:115:LYS:C	1:C:117:LEU:H	2.11	0.53
1:C:186:LYS:O	1:C:188:LEU:O	2.25	0.53
1:C:427:ASP:C	1:C:429:GLY:H	2.12	0.53
1:C:629:ASN:HB3	1:C:632:TYR:CE1	2.42	0.53
1:C:629:ASN:ND2	1:C:631:SER:H	2.06	0.53
1:C:89:ILE:HG21	1:C:175:LYS:HE2	1.90	0.53
1:E:671:ARG:HH12	1:E:677:GLY:HA3	1.73	0.53
1:E:700:TYR:CD1	1:E:727:GLN:HB3	2.43	0.53
1:F:372:LYS:O	1:F:374:HIS:N	2.40	0.53
1:F:515:LYS:HB3	1:F:515:LYS:NZ	2.23	0.53
1:F:700:TYR:CD1	1:F:727:GLN:HB3	2.43	0.53
2:L:65:PHE:H	2:L:65:PHE:HD1	1.50	0.53
1:E:630:ARG:CZ	2:L:83:GLU:HG2	2.38	0.53
1:A:199:LEU:C	1:A:201:ASP:N	2.59	0.53
1:A:405:LEU:N	1:A:405:LEU:HD12	2.23	0.53
1:A:427:ASP:C	1:A:429:GLY:H	2.12	0.53
1:A:722:ILE:HD13	1:A:764:LEU:CD2	2.37	0.53
1:B:381:GLU:C	1:B:383:GLY:H	2.11	0.53
1:B:549:LEU:HG	1:B:550:SER:O	2.09	0.53
1:C:381:GLU:C	1:C:383:GLY:H	2.11	0.53
1:C:561:ASN:CG	1:C:573:ASP:HB3	2.28	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:667:LEU:HD13	1:C:678:VAL:HG21	1.90	0.53
1:D:155:ASN:C	1:D:156:ILE:HD12	2.29	0.53
1:D:550:SER:CB	1:D:553:GLN:HG3	2.36	0.53
1:D:630:ARG:CZ	2:K:83:GLU:HG2	2.37	0.53
1:D:667:LEU:HD13	1:D:678:VAL:HG21	1.90	0.53
1:E:188:LEU:N	1:E:188:LEU:CD2	2.54	0.53
1:E:216:GLU:HG3	1:E:217:LYS:HG2	1.89	0.53
1:E:295:VAL:HG23	1:E:297:LYS:HG3	1.90	0.53
1:E:324:THR:HB	1:E:499:PRO:CA	2.36	0.53
1:E:427:ASP:C	1:E:429:GLY:H	2.12	0.53
1:E:494:LEU:HD13	1:E:497:LEU:HD21	1.91	0.53
1:F:371:SER:O	1:F:372:LYS:C	2.47	0.53
1:F:535:LYS:HD2	1:F:536:TYR:CE2	2.43	0.53
2:K:65:PHE:N	2:K:65:PHE:CD1	2.70	0.53
1:A:172:GLU:O	1:A:175:LYS:HB3	2.09	0.53
1:A:515:LYS:O	1:A:515:LYS:HG2	2.09	0.53
1:B:295:VAL:HG23	1:B:297:LYS:HG3	1.90	0.53
1:B:535:LYS:HD2	1:B:536:TYR:CE2	2.43	0.53
1:C:327:LEU:HD12	1:C:327:LEU:N	2.22	0.53
1:C:504:ILE:O	1:C:507:GLN:HB3	2.09	0.53
1:C:636:ALA:O	1:C:640:LYS:N	2.41	0.53
1:D:105:TYR:N	1:D:152:LEU:O	2.28	0.53
1:D:722:ILE:HD13	1:D:764:LEU:CD2	2.38	0.53
1:E:254:ARG:HB3	1:E:254:ARG:NH1	2.18	0.53
1:F:636:ALA:O	1:F:640:LYS:N	2.40	0.53
2:H:117:THR:C	2:H:119:GLU:H	2.11	0.53
2:H:133:ASP:OD2	2:H:135:GLN:HG3	2.08	0.53
2:H:87:GLU:C	2:H:89:PHE:H	2.12	0.53
2:H:97:ASN:ND2	2:H:97:ASN:H	2.05	0.53
1:A:494:LEU:HD13	1:A:497:LEU:HD21	1.91	0.53
1:A:700:TYR:CD1	1:A:727:GLN:HB3	2.42	0.53
1:A:78:LYS:HG3	1:A:79:ILE:N	2.22	0.53
1:B:302:LEU:HB2	1:B:602:PHE:CD1	2.39	0.53
1:B:494:LEU:HD13	1:B:497:LEU:HD21	1.91	0.53
1:B:499:PRO:CG	1:B:504:ILE:HD11	2.39	0.53
1:D:381:GLU:C	1:D:383:GLY:H	2.12	0.53
1:D:567:THR:CG2	1:D:568:GLY:N	2.55	0.53
1:E:597:ASN:CG	1:E:599:GLU:H	2.11	0.53
1:F:405:LEU:HD12	1:F:405:LEU:N	2.23	0.53
1:F:397:GLU:HG3	1:F:480:ASN:HB3	1.90	0.53
2:H:64:ASP:OD1	2:H:66:PRO:HD2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:64:ASP:OD1	2:I:66:PRO:HD2	2.08	0.53
2:J:99:TYR:CD2	2:J:135:GLN:NE2	2.76	0.53
1:A:70:GLU:CB	1:A:107:THR:HG22	2.39	0.53
1:A:248:TYR:HB2	1:A:257:LEU:HD23	1.90	0.53
1:A:381:GLU:C	1:A:383:GLY:H	2.10	0.53
1:A:764:LEU:C	1:A:766:HIS:N	2.61	0.53
1:B:173:ILE:HG23	1:B:174:GLY:H	1.73	0.53
1:B:561:ASN:CG	1:B:573:ASP:HB3	2.28	0.53
1:B:597:ASN:HD21	1:B:599:GLU:C	2.12	0.53
1:C:173:ILE:HG23	1:C:174:GLY:H	1.73	0.53
1:C:238:GLN:C	1:C:240:ALA:H	2.11	0.53
1:D:302:LEU:HB2	1:D:602:PHE:CD1	2.39	0.53
1:D:704:TYR:OH	1:D:759:GLN:OE1	2.15	0.53
1:E:327:LEU:HG	1:E:595:ILE:CG1	2.26	0.53
2:I:117:THR:C	2:I:119:GLU:H	2.11	0.53
2:L:117:THR:C	2:L:119:GLU:H	2.12	0.53
1:A:515:LYS:NZ	1:A:515:LYS:HB3	2.24	0.53
1:A:632:TYR:O	1:A:633:ASN:HB2	2.08	0.53
1:A:792:VAL:O	1:A:796:ILE:HG12	2.09	0.53
1:D:187:SER:C	1:D:188:LEU:O	2.40	0.53
1:D:405:LEU:N	1:D:405:LEU:HD12	2.24	0.53
1:E:93:VAL:HG21	1:E:245:PHE:CZ	2.44	0.53
1:E:275:GLY:HA2	1:E:278:LYS:HE2	1.88	0.53
2:I:99:TYR:CD2	2:I:135:GLN:NE2	2.76	0.53
1:A:275:GLY:HA2	1:A:278:LYS:HE2	1.89	0.53
1:A:504:ILE:O	1:A:507:GLN:HB3	2.09	0.53
1:B:109:ILE:HG22	1:B:109:ILE:O	2.09	0.53
1:B:100:LEU:CD1	1:B:182:ILE:HG21	2.38	0.53
1:B:275:GLY:HA2	1:B:278:LYS:HE2	1.89	0.53
1:B:324:THR:HB	1:B:499:PRO:CA	2.36	0.53
1:C:700:TYR:CD1	1:C:727:GLN:HB3	2.43	0.53
1:D:515:LYS:O	1:D:515:LYS:HG2	2.09	0.53
1:E:515:LYS:HB3	1:E:515:LYS:NZ	2.24	0.53
1:F:109:ILE:O	1:F:109:ILE:HG22	2.09	0.53
1:F:257:LEU:O	1:F:261:ALA:HB3	2.09	0.53
1:F:680:LYS:HG2	1:F:681:ASP:N	2.24	0.53
2:L:87:GLU:C	2:L:89:PHE:H	2.11	0.53
1:A:279:ILE:HD13	1:A:279:ILE:N	2.24	0.53
1:B:172:GLU:O	1:B:175:LYS:HB3	2.09	0.53
1:B:275:GLY:HA2	1:B:278:LYS:NZ	2.23	0.53
1:B:501:LEU:HD11	2:I:108:VAL:HG13	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:700:TYR:CD1	1:B:727:GLN:HB3	2.43	0.53
1:C:295:VAL:HG23	1:C:297:LYS:HG3	1.89	0.53
1:D:447:SER:OG	1:D:448:ASP:N	2.42	0.53
1:D:456:LYS:CB	1:D:471:TRP:H	2.17	0.53
1:D:629:ASN:ND2	1:D:631:SER:H	2.06	0.53
1:D:691:LYS:O	1:D:694:VAL:HG22	2.09	0.53
1:E:629:ASN:HB3	1:E:632:TYR:CE1	2.43	0.53
1:F:197:LYS:CB	1:F:197:LYS:HZ2	2.21	0.53
1:F:238:GLN:C	1:F:240:ALA:H	2.11	0.53
1:F:427:ASP:C	1:F:429:GLY:H	2.12	0.53
1:F:501:LEU:CD1	2:M:108:VAL:HG13	2.39	0.53
1:F:597:ASN:CG	1:F:599:GLU:H	2.12	0.53
1:F:629:ASN:ND2	1:F:631:SER:H	2.07	0.53
1:F:93:VAL:HG21	1:F:245:PHE:CZ	2.44	0.53
2:I:24:ASP:OD1	2:I:25:GLY:N	2.37	0.53
2:I:5:THR:HG23	2:I:8:GLN:H	1.74	0.53
2:J:49:GLN:O	2:J:53:ASN:N	2.39	0.53
2:J:5:THR:HG23	2:J:8:GLN:H	1.73	0.53
2:K:87:GLU:O	2:K:91:VAL:HG23	2.09	0.53
2:L:114:GLU:OE2	2:L:114:GLU:CA	2.54	0.53
2:M:24:ASP:OD1	2:M:25:GLY:N	2.36	0.53
1:A:89:ILE:HG21	1:A:175:LYS:HE2	1.91	0.53
1:B:112:VAL:O	1:B:114:HIS:N	2.42	0.53
1:C:164:GLU:C	1:C:166:SER:H	2.12	0.53
1:C:355:SER:HB2	1:C:371:SER:HA	1.90	0.53
1:C:597:ASN:HD21	1:C:599:GLU:C	2.12	0.53
1:C:602:PHE:C	1:C:603:ILE:HG13	2.29	0.53
1:C:680:LYS:HG2	1:C:681:ASP:N	2.24	0.53
1:D:199:LEU:C	1:D:201:ASP:N	2.59	0.53
1:D:597:ASN:HD21	1:D:599:GLU:C	2.13	0.53
1:D:764:LEU:C	1:D:766:HIS:N	2.61	0.53
1:E:173:ILE:HG23	1:E:174:GLY:H	1.72	0.53
1:E:248:TYR:HB2	1:E:257:LEU:HD23	1.91	0.53
1:F:602:PHE:C	1:F:603:ILE:HG13	2.29	0.53
1:F:64:ASN:N	1:F:64:ASN:HD22	2.06	0.53
2:H:87:GLU:O	2:H:91:VAL:HG23	2.09	0.53
2:I:28:THR:HB	2:I:30:LYS:NZ	2.23	0.53
1:A:100:LEU:CD1	1:A:182:ILE:HG21	2.39	0.53
1:A:279:ILE:CD1	1:A:279:ILE:H	2.20	0.53
1:A:295:VAL:HG23	1:A:297:LYS:HG3	1.90	0.53
1:A:561:ASN:CG	1:A:573:ASP:HB3	2.29	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:667:LEU:HD13	1:B:678:VAL:HG21	1.90	0.53
1:B:764:LEU:O	1:B:766:HIS:N	2.42	0.53
1:B:792:VAL:O	1:B:796:ILE:HG12	2.09	0.53
1:D:160:ALA:O	1:D:161:ILE:CG1	2.56	0.53
1:D:164:GLU:C	1:D:166:SER:H	2.12	0.53
1:D:238:GLN:C	1:D:240:ALA:H	2.11	0.53
1:D:481:VAL:O	1:D:484:VAL:HG23	2.08	0.53
1:D:515:LYS:NZ	1:D:515:LYS:HB3	2.24	0.53
1:D:597:ASN:ND2	1:D:601:GLU:H	2.07	0.53
1:D:680:LYS:HG2	1:D:681:ASP:N	2.24	0.53
1:E:520:PRO:HG2	1:E:521:ASN:N	2.19	0.53
1:E:602:PHE:C	1:E:603:ILE:HG13	2.30	0.53
1:F:115:LYS:C	1:F:117:LEU:H	2.11	0.53
1:F:275:GLY:HA2	1:F:278:LYS:NZ	2.24	0.53
1:F:722:ILE:HD13	1:F:764:LEU:CD2	2.37	0.53
2:I:87:GLU:C	2:I:89:PHE:H	2.11	0.53
2:K:87:GLU:C	2:K:89:PHE:H	2.11	0.53
1:A:109:ILE:O	1:A:109:ILE:HG22	2.09	0.52
1:A:257:LEU:O	1:A:261:ALA:HB3	2.09	0.52
1:A:324:THR:HB	1:A:499:PRO:CA	2.36	0.52
1:A:443:GLU:CD	1:A:458:LYS:HG2	2.29	0.52
1:A:74:GLU:HB2	1:A:78:LYS:CB	2.39	0.52
1:B:602:PHE:C	1:B:603:ILE:HG13	2.29	0.52
1:C:447:SER:OG	1:C:448:ASP:N	2.42	0.52
1:C:529:VAL:O	1:C:532:LEU:HB2	2.09	0.52
1:D:243:LEU:HA	1:D:246:SER:OG	2.09	0.52
1:D:636:ALA:O	1:D:640:LYS:N	2.41	0.52
1:E:115:LYS:C	1:E:117:LEU:H	2.11	0.52
1:E:105:TYR:CB	1:E:153:ILE:HG12	2.25	0.52
1:E:464:VAL:HG23	1:E:465:LEU:HD12	1.90	0.52
1:E:504:ILE:O	1:E:507:GLN:HB3	2.09	0.52
1:E:74:GLU:HB2	1:E:78:LYS:CB	2.39	0.52
1:E:747:ASN:O	1:E:750:GLN:HB2	2.09	0.52
1:F:112:VAL:O	1:F:114:HIS:N	2.43	0.52
1:F:520:PRO:HG2	1:F:521:ASN:N	2.18	0.52
2:H:17:SER:O	2:H:19:PHE:N	2.42	0.52
2:K:97:ASN:HD22	2:K:97:ASN:N	2.07	0.52
2:L:94:LYS:HB3	2:L:94:LYS:NZ	2.25	0.52
1:A:93:VAL:HG21	1:A:245:PHE:CZ	2.43	0.52
1:B:372:LYS:O	1:B:374:HIS:N	2.39	0.52
1:C:112:VAL:O	1:C:114:HIS:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:172:GLU:O	1:C:175:LYS:HB3	2.08	0.52
1:C:371:SER:O	1:C:372:LYS:C	2.48	0.52
1:E:371:SER:O	1:E:372:LYS:C	2.47	0.52
1:E:713:SER:O	1:E:716:LYS:N	2.39	0.52
1:F:175:LYS:HB2	1:F:175:LYS:HZ2	1.74	0.52
2:K:17:SER:O	2:K:19:PHE:N	2.41	0.52
1:A:234:LEU:HD23	1:A:235:THR:H	1.75	0.52
1:A:288:VAL:HG12	1:A:292:ARG:NH2	2.25	0.52
1:A:447:SER:OG	1:A:448:ASP:N	2.42	0.52
1:A:593:ILE:O	1:A:604:LEU:HA	2.09	0.52
1:A:597:ASN:HD21	1:A:599:GLU:C	2.13	0.52
1:B:747:ASN:O	1:B:750:GLN:HB2	2.08	0.52
1:C:464:VAL:HG23	1:C:465:LEU:HD12	1.91	0.52
1:D:105:TYR:CB	1:D:153:ILE:HG12	2.25	0.52
1:D:257:LEU:O	1:D:261:ALA:HB3	2.09	0.52
1:D:443:GLU:CD	1:D:458:LYS:HG2	2.30	0.52
1:D:602:PHE:C	1:D:603:ILE:HG13	2.30	0.52
1:D:74:GLU:HB2	1:D:78:LYS:CB	2.40	0.52
1:E:381:GLU:C	1:E:383:GLY:H	2.11	0.52
1:E:83:GLN:O	1:E:85:LEU:N	2.43	0.52
1:F:325:TYR:CD1	1:F:598:PRO:HD3	2.45	0.52
2:I:97:ASN:N	2:I:97:ASN:HD22	2.05	0.52
2:J:117:THR:C	2:J:119:GLU:H	2.12	0.52
2:J:87:GLU:O	2:J:91:VAL:HG23	2.09	0.52
2:L:105:LEU:HD21	2:L:124:MET:SD	2.50	0.52
2:L:133:ASP:OD2	2:L:135:GLN:HG3	2.08	0.52
2:L:99:TYR:CD2	2:L:135:GLN:NE2	2.77	0.52
2:M:17:SER:O	2:M:19:PHE:N	2.42	0.52
1:A:112:VAL:O	1:A:114:HIS:N	2.42	0.52
1:A:602:PHE:C	1:A:603:ILE:HG13	2.30	0.52
1:A:713:SER:O	1:A:716:LYS:N	2.39	0.52
1:A:713:SER:O	1:A:716:LYS:HB3	2.10	0.52
1:B:464:VAL:HG23	1:B:465:LEU:HD12	1.91	0.52
1:B:504:ILE:O	1:B:507:GLN:HB3	2.10	0.52
1:B:74:GLU:HB2	1:B:78:LYS:CB	2.39	0.52
1:C:792:VAL:O	1:C:796:ILE:HG12	2.09	0.52
1:D:275:GLY:HA2	1:D:278:LYS:NZ	2.24	0.52
1:D:327:LEU:HG	1:D:595:ILE:CG1	2.26	0.52
1:D:371:SER:O	1:D:372:LYS:C	2.47	0.52
1:D:520:PRO:HG2	1:D:521:ASN:N	2.18	0.52
1:D:688:PHE:C	1:D:688:PHE:CD2	2.82	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:752:LEU:O	1:E:756:ILE:HG12	2.10	0.52
1:E:792:VAL:CG1	1:E:796:ILE:HD11	2.37	0.52
1:F:141:PHE:N	1:F:141:PHE:HD1	2.02	0.52
1:F:164:GLU:C	1:F:166:SER:H	2.13	0.52
1:B:501:LEU:CD1	2:I:108:VAL:HG13	2.40	0.52
1:E:501:LEU:CD1	2:L:108:VAL:HG13	2.39	0.52
1:A:333:LYS:O	1:A:335:ALA:N	2.40	0.52
1:A:355:SER:HB2	1:A:371:SER:HA	1.90	0.52
1:A:688:PHE:C	1:A:688:PHE:CD2	2.82	0.52
1:C:325:TYR:CD1	1:C:598:PRO:HD3	2.44	0.52
1:C:515:LYS:NZ	1:C:515:LYS:HB3	2.24	0.52
1:C:581:GLN:HA	1:C:581:GLN:HE21	1.74	0.52
1:D:279:ILE:N	1:D:279:ILE:HD13	2.25	0.52
1:D:333:LYS:O	1:D:335:ALA:N	2.41	0.52
1:E:109:ILE:HG22	1:E:109:ILE:O	2.10	0.52
1:E:175:LYS:HB2	1:E:175:LYS:HZ3	1.74	0.52
1:E:275:GLY:HA2	1:E:278:LYS:NZ	2.24	0.52
1:E:279:ILE:HD13	1:E:279:ILE:N	2.24	0.52
1:E:597:ASN:HD21	1:E:599:GLU:C	2.13	0.52
1:E:721:SER:C	1:E:723:PHE:N	2.62	0.52
1:F:279:ILE:N	1:F:279:ILE:HD13	2.24	0.52
1:F:360:VAL:HG11	1:F:370:LEU:CD2	2.37	0.52
1:F:355:SER:HB2	1:F:371:SER:HA	1.91	0.52
2:K:17:SER:O	2:K:20:ASP:N	2.37	0.52
2:L:5:THR:HG23	2:L:8:GLN:H	1.74	0.52
1:A:513:TRP:CH2	2:H:113:GLY:O	2.62	0.52
1:A:550:SER:CB	1:A:553:GLN:HG3	2.36	0.52
1:B:688:PHE:CD2	1:B:688:PHE:C	2.83	0.52
1:C:654:ILE:HG22	1:C:655:ASN:ND2	2.25	0.52
1:D:172:GLU:O	1:D:175:LYS:HB3	2.09	0.52
1:D:464:VAL:HG23	1:D:465:LEU:HD12	1.91	0.52
1:D:494:LEU:HD13	1:D:497:LEU:HD21	1.91	0.52
1:D:694:VAL:HG23	2:K:18:LEU:HD11	1.90	0.52
1:E:238:GLN:C	1:E:240:ALA:H	2.12	0.52
1:F:100:LEU:CD1	1:F:182:ILE:HG21	2.38	0.52
1:F:173:ILE:HG23	1:F:174:GLY:H	1.73	0.52
2:K:133:ASP:OD2	2:K:135:GLN:HG3	2.09	0.52
2:L:87:GLU:O	2:L:91:VAL:HG23	2.09	0.52
1:A:464:VAL:HG23	1:A:465:LEU:HD12	1.90	0.52
1:A:499:PRO:CG	1:A:504:ILE:HD11	2.40	0.52
1:B:141:PHE:HD1	1:B:141:PHE:N	2.01	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:257:LEU:O	1:B:261:ALA:HB3	2.10	0.52
1:B:371:SER:O	1:B:372:LYS:C	2.47	0.52
1:B:515:LYS:O	1:B:515:LYS:HG2	2.09	0.52
1:C:109:ILE:HG22	1:C:109:ILE:O	2.09	0.52
1:C:275:GLY:HA2	1:C:278:LYS:NZ	2.24	0.52
1:C:279:ILE:HD13	1:C:279:ILE:N	2.25	0.52
1:C:397:GLU:HG3	1:C:480:ASN:HB3	1.91	0.52
1:D:109:ILE:HG22	1:D:109:ILE:O	2.09	0.52
1:F:118:GLN:OE1	1:F:118:GLN:HA	2.10	0.52
1:F:581:GLN:HA	1:F:581:GLN:HE21	1.75	0.52
1:F:585:GLU:HA	1:F:585:GLU:OE1	2.10	0.52
1:F:74:GLU:HB2	1:F:78:LYS:CB	2.40	0.52
2:J:17:SER:O	2:J:19:PHE:N	2.43	0.52
2:K:64:ASP:OD1	2:K:66:PRO:HD2	2.08	0.52
1:F:513:TRP:CH2	2:M:113:GLY:O	2.63	0.52
2:M:133:ASP:OD2	2:M:135:GLN:HG3	2.10	0.52
1:B:680:LYS:HG2	1:B:681:ASP:N	2.25	0.52
1:C:173:ILE:O	1:C:176:GLY:N	2.43	0.52
1:E:112:VAL:O	1:E:114:HIS:N	2.42	0.52
1:E:118:GLN:HA	1:E:118:GLN:OE1	2.10	0.52
1:E:172:GLU:O	1:E:175:LYS:HB3	2.09	0.52
1:F:667:LEU:HD13	1:F:678:VAL:HG21	1.91	0.52
2:I:133:ASP:OD2	2:I:135:GLN:HG3	2.10	0.52
2:M:117:THR:C	2:M:119:GLU:H	2.11	0.52
2:M:87:GLU:O	2:M:91:VAL:HG23	2.10	0.52
1:A:325:TYR:CD1	1:A:598:PRO:HD3	2.44	0.52
1:A:549:LEU:HG	1:A:550:SER:O	2.10	0.52
1:B:520:PRO:HG2	1:B:521:ASN:N	2.18	0.52
1:B:555:GLN:CG	1:B:556:MET:N	2.72	0.52
1:C:257:LEU:O	1:C:261:ALA:HB3	2.09	0.52
1:C:248:TYR:CD1	1:C:268:MET:CB	2.92	0.52
1:C:584:GLU:HG2	1:C:630:ARG:HB2	1.92	0.52
1:C:756:ILE:O	1:C:760:VAL:HG23	2.10	0.52
1:C:93:VAL:HG21	1:C:245:PHE:CZ	2.45	0.52
1:D:118:GLN:HA	1:D:118:GLN:OE1	2.10	0.52
1:D:355:SER:HB2	1:D:371:SER:HA	1.90	0.52
1:D:680:LYS:HG2	1:D:681:ASP:H	1.75	0.52
1:D:756:ILE:O	1:D:760:VAL:HG23	2.10	0.52
1:D:792:VAL:O	1:D:796:ILE:HG12	2.10	0.52
1:E:499:PRO:CG	1:E:504:ILE:HD11	2.39	0.52
1:E:535:LYS:HD2	1:E:536:TYR:CE2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:561:ASN:CG	1:E:573:ASP:HB3	2.29	0.52
1:E:597:ASN:ND2	1:E:601:GLU:H	2.07	0.52
1:E:680:LYS:HG2	1:E:681:ASP:N	2.24	0.52
1:E:688:PHE:C	1:E:688:PHE:CD2	2.82	0.52
1:F:447:SER:OG	1:F:448:ASP:N	2.42	0.52
1:F:713:SER:O	1:F:716:LYS:HB3	2.10	0.52
1:A:118:GLN:HA	1:A:118:GLN:OE1	2.10	0.52
1:B:234:LEU:HD23	1:B:235:THR:H	1.75	0.52
1:B:513:TRP:CH2	2:I:113:GLY:O	2.63	0.52
1:B:583:ASN:ND2	1:B:587:PRO:HA	2.25	0.52
1:C:71:PHE:CD1	1:C:108:ASP:OD1	2.63	0.52
1:C:118:GLN:HA	1:C:118:GLN:OE1	2.10	0.52
1:C:555:GLN:CG	1:C:556:MET:N	2.73	0.52
1:C:74:GLU:HB2	1:C:78:LYS:CB	2.39	0.52
1:D:275:GLY:HA2	1:D:278:LYS:HE2	1.89	0.52
1:D:561:ASN:CG	1:D:573:ASP:HB3	2.29	0.52
1:D:70:GLU:CB	1:D:107:THR:HG22	2.40	0.52
1:F:499:PRO:CG	1:F:504:ILE:HD11	2.40	0.52
1:F:555:GLN:CG	1:F:556:MET:N	2.73	0.52
1:F:752:LEU:O	1:F:756:ILE:HG12	2.10	0.52
1:F:756:ILE:O	1:F:760:VAL:HG23	2.10	0.52
1:F:90:PRO:O	1:F:92:ASP:N	2.43	0.52
2:I:87:GLU:O	2:I:91:VAL:HG23	2.10	0.52
2:J:64:ASP:OD1	2:J:66:PRO:HD2	2.09	0.52
1:A:333:LYS:H	1:A:333:LYS:HD2	1.75	0.51
1:A:322:LEU:HD13	1:A:556:MET:CE	2.40	0.51
1:A:629:ASN:ND2	1:A:631:SER:H	2.08	0.51
1:B:164:GLU:C	1:B:166:SER:H	2.12	0.51
1:B:173:ILE:O	1:B:176:GLY:N	2.43	0.51
1:B:218:LEU:HD11	1:B:225:ILE:HD11	1.92	0.51
1:B:279:ILE:N	1:B:279:ILE:HD13	2.25	0.51
1:B:89:ILE:HG21	1:B:175:LYS:HE2	1.91	0.51
1:D:112:VAL:O	1:D:114:HIS:N	2.43	0.51
1:D:173:ILE:O	1:D:176:GLY:N	2.43	0.51
1:D:630:ARG:HH11	1:D:630:ARG:HG3	1.75	0.51
1:E:135:VAL:N	1:E:136:PRO:CD	2.73	0.51
1:E:164:GLU:C	1:E:166:SER:H	2.13	0.51
1:E:173:ILE:O	1:E:176:GLY:N	2.43	0.51
1:E:257:LEU:O	1:E:261:ALA:HB3	2.09	0.51
1:E:443:GLU:CD	1:E:458:LYS:HG2	2.30	0.51
1:E:630:ARG:HH11	1:E:630:ARG:HG3	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:713:SER:O	1:E:716:LYS:HB3	2.10	0.51
1:F:71:PHE:CD1	1:F:108:ASP:OD1	2.63	0.51
1:F:464:VAL:HG23	1:F:465:LEU:HD12	1.91	0.51
1:F:597:ASN:ND2	1:F:601:GLU:H	2.08	0.51
1:C:513:TRP:CH2	2:J:113:GLY:O	2.62	0.51
2:J:97:ASN:N	2:J:97:ASN:HD22	2.08	0.51
1:A:585:GLU:OE1	1:A:585:GLU:HA	2.10	0.51
1:A:302:LEU:HB2	1:A:602:PHE:CD1	2.39	0.51
1:B:243:LEU:HA	1:B:246:SER:OG	2.10	0.51
1:B:447:SER:OG	1:B:448:ASP:N	2.43	0.51
1:B:597:ASN:ND2	1:B:601:GLU:H	2.08	0.51
1:C:197:LYS:HZ2	1:C:197:LYS:CB	2.23	0.51
1:C:713:SER:O	1:C:716:LYS:HB3	2.10	0.51
1:C:752:LEU:O	1:C:756:ILE:HG12	2.10	0.51
1:D:499:PRO:CG	1:D:504:ILE:HD11	2.40	0.51
1:D:584:GLU:HG2	1:D:630:ARG:HB2	1.92	0.51
1:D:721:SER:C	1:D:723:PHE:N	2.63	0.51
1:E:585:GLU:HA	1:E:585:GLU:OE1	2.10	0.51
1:E:718:ARG:NH1	1:E:767:GLN:HE21	2.08	0.51
1:E:697:ILE:CG2	1:E:732:ILE:HD11	2.36	0.51
1:F:172:GLU:O	1:F:175:LYS:HB3	2.09	0.51
1:F:680:LYS:HG2	1:F:681:ASP:H	1.75	0.51
1:F:792:VAL:CG1	1:F:796:ILE:HD11	2.38	0.51
2:I:146:THR:O	2:I:147:ALA:C	2.49	0.51
2:I:16:PHE:HE1	2:I:27:ILE:HG12	1.76	0.51
2:L:18:LEU:HD23	2:L:18:LEU:O	2.10	0.51
1:A:243:LEU:HA	1:A:246:SER:OG	2.10	0.51
1:A:680:LYS:HG2	1:A:681:ASP:N	2.24	0.51
1:A:691:LYS:O	1:A:694:VAL:HG22	2.11	0.51
1:B:70:GLU:CB	1:B:107:THR:HG22	2.40	0.51
1:B:118:GLN:HA	1:B:118:GLN:OE1	2.10	0.51
1:B:585:GLU:HB3	1:B:586:PHE:CD1	2.45	0.51
1:B:83:GLN:O	1:B:85:LEU:N	2.43	0.51
1:C:579:THR:C	1:C:581:GLN:H	2.13	0.51
1:C:597:ASN:ND2	1:C:601:GLU:H	2.06	0.51
1:E:248:TYR:CD1	1:E:268:MET:CB	2.92	0.51
1:E:333:LYS:O	1:E:335:ALA:N	2.41	0.51
1:E:718:ARG:HH12	1:E:767:GLN:HE21	1.58	0.51
1:F:70:GLU:CB	1:F:107:THR:HG22	2.40	0.51
1:F:654:ILE:HG22	1:F:655:ASN:ND2	2.25	0.51
1:F:713:SER:O	1:F:716:LYS:N	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:764:LEU:C	1:F:766:HIS:N	2.64	0.51
2:H:94:LYS:HB3	2:H:94:LYS:NZ	2.25	0.51
2:H:97:ASN:N	2:H:97:ASN:HD22	2.08	0.51
2:I:16:PHE:CE1	2:I:27:ILE:HD13	2.46	0.51
2:L:97:ASN:HD22	2:L:97:ASN:N	2.06	0.51
2:M:97:ASN:N	2:M:97:ASN:HD22	2.08	0.51
1:A:218:LEU:HD11	1:A:225:ILE:HD11	1.92	0.51
1:A:371:SER:O	1:A:372:LYS:C	2.47	0.51
1:B:135:VAL:N	1:B:136:PRO:CD	2.74	0.51
1:B:397:GLU:HG3	1:B:480:ASN:HB3	1.91	0.51
1:B:629:ASN:ND2	1:B:631:SER:H	2.08	0.51
1:B:671:ARG:HH12	1:B:677:GLY:HA3	1.72	0.51
1:C:585:GLU:HB3	1:C:586:PHE:CD1	2.45	0.51
1:C:680:LYS:HG2	1:C:681:ASP:H	1.76	0.51
1:D:218:LEU:HD11	1:D:225:ILE:HD11	1.92	0.51
1:D:93:VAL:HG21	1:D:245:PHE:CZ	2.44	0.51
1:D:549:LEU:HG	1:D:550:SER:O	2.10	0.51
1:D:555:GLN:CG	1:D:556:MET:N	2.73	0.51
1:D:585:GLU:OE1	1:D:585:GLU:HA	2.11	0.51
1:D:90:PRO:O	1:D:92:ASP:N	2.43	0.51
1:E:397:GLU:HG3	1:E:480:ASN:HB3	1.92	0.51
1:E:585:GLU:HB3	1:E:586:PHE:CD1	2.46	0.51
1:E:609:GLU:O	1:E:610:MET:C	2.49	0.51
1:E:89:ILE:HG21	1:E:175:LYS:HE2	1.91	0.51
1:F:135:VAL:N	1:F:136:PRO:CD	2.74	0.51
1:F:254:ARG:NH1	1:F:254:ARG:HB3	2.18	0.51
1:F:478:ALA:HB1	1:F:486:LYS:C	2.31	0.51
1:F:504:ILE:O	1:F:507:GLN:HB3	2.10	0.51
1:F:584:GLU:HG2	1:F:630:ARG:HB2	1.93	0.51
2:I:18:LEU:O	2:I:18:LEU:HD23	2.10	0.51
2:I:50:ASP:O	2:I:54:GLU:HB2	2.10	0.51
2:J:133:ASP:OD2	2:J:135:GLN:HG3	2.10	0.51
2:M:18:LEU:O	2:M:18:LEU:HD23	2.10	0.51
1:B:584:GLU:HG2	1:B:630:ARG:HB2	1.92	0.51
1:B:600:GLY:O	1:B:602:PHE:HD2	1.94	0.51
1:B:691:LYS:O	1:B:694:VAL:HG22	2.11	0.51
1:B:792:VAL:CG1	1:B:796:ILE:HD11	2.37	0.51
1:C:165:GLN:HE22	1:C:252:ASP:HB3	1.75	0.51
1:C:254:ARG:NH1	1:C:254:ARG:HB3	2.18	0.51
1:C:499:PRO:CG	1:C:504:ILE:HD11	2.40	0.51
1:D:100:LEU:CD1	1:D:182:ILE:HG21	2.37	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:83:GLN:O	1:D:85:LEU:N	2.44	0.51
1:E:327:LEU:CG	1:E:595:ILE:HG12	2.27	0.51
1:E:792:VAL:O	1:E:796:ILE:HG12	2.09	0.51
1:F:494:LEU:HD13	1:F:497:LEU:HD21	1.92	0.51
2:H:63:ILE:CG1	2:H:67:GLU:HB3	2.28	0.51
2:K:18:LEU:HD23	2:K:18:LEU:O	2.11	0.51
2:L:50:ASP:O	2:L:54:GLU:HB2	2.10	0.51
1:A:189:ASP:C	1:A:191:GLU:H	2.13	0.51
1:A:461:LYS:HG3	1:A:462:ILE:H	1.75	0.51
1:A:90:PRO:HG2	1:A:93:VAL:CG1	2.41	0.51
1:D:461:LYS:HG3	1:D:462:ILE:H	1.76	0.51
1:D:397:GLU:HG3	1:D:480:ASN:HB3	1.91	0.51
1:E:333:LYS:HD2	1:E:333:LYS:H	1.75	0.51
1:E:562:GLU:HG3	1:E:562:GLU:O	2.11	0.51
1:F:186:LYS:O	1:F:188:LEU:O	2.29	0.51
1:F:721:SER:C	1:F:723:PHE:N	2.62	0.51
1:B:694:VAL:HG23	2:I:18:LEU:HD11	1.92	0.51
2:I:95:ASP:OD2	2:I:97:ASN:CG	2.49	0.51
2:J:18:LEU:O	2:J:18:LEU:HD23	2.10	0.51
2:K:50:ASP:O	2:K:54:GLU:HB2	2.10	0.51
2:L:17:SER:O	2:L:19:PHE:N	2.43	0.51
2:M:64:ASP:OD1	2:M:66:PRO:HD2	2.10	0.51
1:A:123:GLU:O	1:A:146:LYS:NZ	2.36	0.51
1:A:585:GLU:HB3	1:A:586:PHE:CD1	2.46	0.51
1:A:597:ASN:ND2	1:A:601:GLU:H	2.07	0.51
1:A:721:SER:C	1:A:723:PHE:N	2.63	0.51
1:B:333:LYS:HD2	1:B:333:LYS:H	1.76	0.51
1:B:478:ALA:HB1	1:B:486:LYS:C	2.31	0.51
1:B:722:ILE:HD13	1:B:764:LEU:CD2	2.39	0.51
1:C:319:ALA:O	1:C:323:ASN:N	2.39	0.51
1:C:443:GLU:CD	1:C:458:LYS:HG2	2.31	0.51
1:C:711:ILE:C	1:C:712:PHE:HD2	2.14	0.51
1:D:325:TYR:CD1	1:D:598:PRO:HD3	2.45	0.51
1:D:434:LEU:C	1:D:434:LEU:HD13	2.31	0.51
1:D:713:SER:O	1:D:716:LYS:HB3	2.11	0.51
1:D:716:LYS:O	1:D:717:LYS:C	2.49	0.51
1:E:597:ASN:OD1	1:E:598:PRO:HD2	2.10	0.51
1:E:691:LYS:O	1:E:694:VAL:HG22	2.11	0.51
1:E:759:GLN:HA	1:E:759:GLN:HE21	1.76	0.51
1:F:515:LYS:O	1:F:515:LYS:HG2	2.09	0.51
1:F:89:ILE:HD13	1:F:175:LYS:CE	2.33	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:146:THR:O	2:H:147:ALA:C	2.49	0.51
2:H:18:LEU:HD23	2:H:18:LEU:O	2.11	0.51
2:I:17:SER:O	2:I:19:PHE:N	2.44	0.51
2:L:16:PHE:HE1	2:L:27:ILE:HG12	1.76	0.51
2:M:146:THR:O	2:M:147:ALA:C	2.49	0.51
1:A:71:PHE:CD1	1:A:108:ASP:OD1	2.63	0.51
1:A:165:GLN:HE22	1:A:252:ASP:HB3	1.75	0.51
1:A:173:ILE:O	1:A:176:GLY:N	2.44	0.51
1:A:555:GLN:CG	1:A:556:MET:N	2.73	0.51
1:A:83:GLN:O	1:A:85:LEU:N	2.44	0.51
1:B:579:THR:C	1:B:581:GLN:H	2.13	0.51
1:C:189:ASP:C	1:C:191:GLU:N	2.58	0.51
1:C:792:VAL:CG1	1:C:796:ILE:HD11	2.37	0.51
1:D:401:ILE:HG21	1:D:485:LEU:HB3	1.93	0.51
1:E:234:LEU:HD23	1:E:235:THR:H	1.75	0.51
1:E:555:GLN:CG	1:E:556:MET:N	2.73	0.51
1:E:716:LYS:O	1:E:717:LYS:C	2.49	0.51
1:E:76:LEU:O	1:E:79:ILE:N	2.44	0.51
1:F:357:TRP:HA	1:F:418:ILE:CG2	2.41	0.51
1:F:401:ILE:HG21	1:F:485:LEU:HB3	1.93	0.51
1:F:585:GLU:HB3	1:F:586:PHE:CD1	2.46	0.51
1:F:597:ASN:HD21	1:F:599:GLU:C	2.14	0.51
1:F:792:VAL:O	1:F:796:ILE:HG12	2.10	0.51
1:F:89:ILE:HG21	1:F:175:LYS:HE2	1.92	0.51
2:J:94:LYS:HB3	2:J:94:LYS:NZ	2.26	0.51
2:L:16:PHE:CE1	2:L:27:ILE:HD13	2.46	0.51
1:A:164:GLU:C	1:A:166:SER:H	2.13	0.51
1:B:93:VAL:HG21	1:B:245:PHE:CZ	2.46	0.51
1:B:630:ARG:HG3	1:B:630:ARG:HH11	1.76	0.51
1:C:515:LYS:O	1:C:515:LYS:HG2	2.09	0.51
1:C:585:GLU:HA	1:C:585:GLU:OE1	2.11	0.51
1:D:135:VAL:N	1:D:136:PRO:CD	2.74	0.51
1:D:434:LEU:C	1:D:434:LEU:CD1	2.80	0.51
1:D:579:THR:C	1:D:581:GLN:H	2.14	0.51
1:E:145:LYS:CB	1:E:151:LYS:HB2	2.41	0.51
1:E:243:LEU:HA	1:E:246:SER:OG	2.11	0.51
1:E:401:ILE:HG21	1:E:485:LEU:HB3	1.93	0.51
1:E:447:SER:OG	1:E:448:ASP:N	2.43	0.51
1:E:584:GLU:HG2	1:E:630:ARG:HB2	1.93	0.51
1:F:322:LEU:HD13	1:F:556:MET:CE	2.41	0.51
1:F:678:VAL:HG22	1:F:745:TYR:CD2	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:95:ASP:OD2	2:H:97:ASN:CG	2.49	0.51
1:A:248:TYR:CD1	1:A:268:MET:CB	2.92	0.51
1:A:275:GLY:HA2	1:A:278:LYS:NZ	2.25	0.51
1:A:397:GLU:HG3	1:A:480:ASN:HB3	1.91	0.51
1:A:654:ILE:HG22	1:A:655:ASN:ND2	2.26	0.51
1:B:401:ILE:HG21	1:B:485:LEU:HB3	1.93	0.51
1:B:593:ILE:O	1:B:604:LEU:HA	2.10	0.51
1:B:715:GLU:HG3	1:B:767:GLN:HE22	1.73	0.51
1:B:721:SER:C	1:B:723:PHE:N	2.63	0.51
1:C:327:LEU:HG	1:C:595:ILE:CG1	2.25	0.51
1:D:248:TYR:CD1	1:D:268:MET:CB	2.93	0.51
1:D:585:GLU:HB3	1:D:586:PHE:CD1	2.45	0.51
1:D:654:ILE:HG22	1:D:655:ASN:ND2	2.26	0.51
1:E:100:LEU:CD1	1:E:182:ILE:HG21	2.38	0.51
1:E:365:PRO:HB2	1:E:367:ASP:O	2.11	0.51
1:E:581:GLN:HE21	1:E:581:GLN:HA	1.76	0.51
1:E:579:THR:C	1:E:581:GLN:H	2.13	0.51
1:F:248:TYR:CD1	1:F:268:MET:CB	2.91	0.51
2:H:24:ASP:OD1	2:H:25:GLY:N	2.37	0.51
2:H:50:ASP:O	2:H:54:GLU:HB2	2.10	0.51
1:B:668:SER:CA	2:I:14:GLU:HG3	2.39	0.51
2:J:146:THR:O	2:J:147:ALA:C	2.49	0.51
2:J:50:ASP:O	2:J:54:GLU:HB2	2.11	0.51
2:K:4:ALA:HB1	2:K:8:GLN:HG2	1.92	0.51
2:L:97:ASN:HD22	2:L:97:ASN:H	1.59	0.51
1:A:135:VAL:N	1:A:136:PRO:CD	2.74	0.50
1:A:752:LEU:O	1:A:756:ILE:HG12	2.11	0.50
1:B:160:ALA:O	1:B:161:ILE:CG1	2.58	0.50
1:B:357:TRP:HA	1:B:418:ILE:CG2	2.41	0.50
1:B:376:GLN:O	1:B:378:LEU:N	2.44	0.50
1:C:70:GLU:CB	1:C:107:THR:HG22	2.40	0.50
1:C:135:VAL:N	1:C:136:PRO:CD	2.74	0.50
1:C:217:LYS:HB2	1:C:236:GLU:HG3	1.94	0.50
1:D:234:LEU:HD23	1:D:235:THR:H	1.75	0.50
1:D:478:ALA:HB1	1:D:486:LYS:C	2.31	0.50
1:D:513:TRP:CH2	2:K:113:GLY:O	2.64	0.50
1:D:322:LEU:HD13	1:D:556:MET:CE	2.41	0.50
1:E:218:LEU:HD11	1:E:225:ILE:HD11	1.92	0.50
1:E:461:LYS:HG3	1:E:462:ILE:H	1.75	0.50
1:E:593:ILE:O	1:E:604:LEU:HA	2.10	0.50
1:E:756:ILE:O	1:E:760:VAL:HG23	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:333:LYS:O	1:F:335:ALA:N	2.41	0.50
2:H:49:GLN:O	2:H:53:ASN:N	2.39	0.50
2:K:16:PHE:CE1	2:K:27:ILE:HD13	2.46	0.50
2:M:49:GLN:O	2:M:53:ASN:N	2.39	0.50
2:M:4:ALA:HB1	2:M:8:GLN:HG2	1.93	0.50
1:A:173:ILE:O	1:A:175:LYS:N	2.45	0.50
1:A:478:ALA:HB1	1:A:486:LYS:C	2.32	0.50
1:B:90:PRO:O	1:B:92:ASP:N	2.44	0.50
1:C:218:LEU:HD11	1:C:225:ILE:HD11	1.92	0.50
1:C:333:LYS:HD2	1:C:333:LYS:H	1.76	0.50
1:C:365:PRO:HB2	1:C:367:ASP:O	2.11	0.50
1:C:413:LEU:HB2	1:C:419:ILE:CD1	2.42	0.50
1:C:600:GLY:O	1:C:602:PHE:HD2	1.94	0.50
1:C:97:TYR:CE2	1:C:150:PRO:HB2	2.47	0.50
1:E:70:GLU:CB	1:E:107:THR:HG22	2.40	0.50
1:E:165:GLN:HE22	1:E:252:ASP:HB3	1.74	0.50
1:E:478:ALA:HB1	1:E:486:LYS:C	2.32	0.50
1:F:443:GLU:CD	1:F:458:LYS:HG2	2.31	0.50
2:I:94:LYS:NZ	2:I:94:LYS:HB3	2.26	0.50
2:K:93:ASP:OD1	2:K:97:ASN:ND2	2.45	0.50
2:L:95:ASP:OD2	2:L:97:ASN:CG	2.49	0.50
1:B:248:TYR:CD1	1:B:268:MET:CB	2.92	0.50
1:B:585:GLU:HA	1:B:585:GLU:OE1	2.11	0.50
1:B:756:ILE:O	1:B:760:VAL:HG23	2.10	0.50
1:C:189:ASP:HB3	1:C:190:PRO:CD	2.42	0.50
1:C:478:ALA:HB1	1:C:486:LYS:C	2.32	0.50
1:C:609:GLU:O	1:C:610:MET:C	2.49	0.50
1:C:630:ARG:HG3	1:C:630:ARG:HH11	1.77	0.50
1:D:520:PRO:CG	1:D:521:ASN:H	2.14	0.50
1:D:752:LEU:O	1:D:756:ILE:HG12	2.12	0.50
1:E:722:ILE:HD13	1:E:764:LEU:CD2	2.38	0.50
1:F:583:ASN:ND2	1:F:587:PRO:HA	2.26	0.50
1:F:600:GLY:O	1:F:602:PHE:HD2	1.93	0.50
2:M:16:PHE:HE1	2:M:27:ILE:HG12	1.77	0.50
2:M:50:ASP:O	2:M:54:GLU:HB2	2.10	0.50
2:M:89:PHE:HD1	2:M:141:PHE:CD2	2.30	0.50
1:A:630:ARG:HH11	1:A:630:ARG:HG3	1.77	0.50
1:B:325:TYR:CD1	1:B:598:PRO:HD3	2.46	0.50
1:B:716:LYS:O	1:B:717:LYS:C	2.49	0.50
1:C:184:LYS:CE	1:C:193:LEU:HD12	2.36	0.50
1:D:97:TYR:CE2	1:D:150:PRO:HB2	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:173:ILE:O	1:D:175:LYS:N	2.45	0.50
1:D:71:PHE:CD1	1:D:108:ASP:OD1	2.64	0.50
1:F:115:LYS:HB2	1:F:118:GLN:CG	2.42	0.50
1:F:218:LEU:HD11	1:F:225:ILE:HD11	1.92	0.50
1:F:243:LEU:HA	1:F:246:SER:OG	2.11	0.50
1:F:165:GLN:HE22	1:F:252:ASP:HB3	1.75	0.50
1:F:83:GLN:O	1:F:85:LEU:N	2.45	0.50
2:I:137:ASN:OD1	2:I:139:GLU:HB2	2.12	0.50
2:J:4:ALA:HB1	2:J:8:GLN:HG2	1.93	0.50
2:K:16:PHE:HE1	2:K:27:ILE:HG12	1.76	0.50
2:K:89:PHE:HD1	2:K:141:PHE:CD2	2.29	0.50
2:L:4:ALA:HB1	2:L:8:GLN:HG2	1.94	0.50
2:M:16:PHE:CE1	2:M:27:ILE:HD13	2.46	0.50
1:A:173:ILE:C	1:A:175:LYS:N	2.64	0.50
1:A:217:LYS:HB2	1:A:236:GLU:HG3	1.93	0.50
1:A:401:ILE:HG21	1:A:485:LEU:HB3	1.94	0.50
1:A:716:LYS:O	1:A:717:LYS:C	2.50	0.50
1:B:141:PHE:N	1:B:141:PHE:CD1	2.73	0.50
1:B:713:SER:O	1:B:716:LYS:HB3	2.11	0.50
1:B:71:PHE:CD1	1:B:108:ASP:OD1	2.64	0.50
1:B:697:ILE:CG2	1:B:732:ILE:HD11	2.34	0.50
1:C:115:LYS:HB2	1:C:118:GLN:CG	2.42	0.50
1:C:583:ASN:ND2	1:C:587:PRO:HA	2.26	0.50
1:D:254:ARG:NH1	1:D:254:ARG:HB3	2.18	0.50
1:E:325:TYR:CD1	1:E:598:PRO:HD3	2.46	0.50
1:E:357:TRP:HA	1:E:418:ILE:CG2	2.41	0.50
1:E:368:GLN:C	1:E:370:LEU:H	2.15	0.50
1:E:455:TYR:O	1:E:471:TRP:HA	2.12	0.50
1:E:583:ASN:ND2	1:E:587:PRO:HA	2.27	0.50
1:F:368:GLN:C	1:F:370:LEU:H	2.15	0.50
1:F:461:LYS:HG3	1:F:462:ILE:H	1.75	0.50
1:F:579:THR:C	1:F:581:GLN:H	2.13	0.50
2:H:37:ARG:O	2:H:40:GLY:N	2.45	0.50
2:I:81:SER:O	2:I:82:GLU:C	2.50	0.50
2:J:16:PHE:CE1	2:J:27:ILE:HD13	2.46	0.50
2:J:89:PHE:HD1	2:J:141:PHE:CD2	2.30	0.50
2:K:105:LEU:HD21	2:K:124:MET:SD	2.52	0.50
2:L:93:ASP:OD1	2:L:97:ASN:ND2	2.44	0.50
1:A:318:ILE:H	1:A:318:ILE:CD1	2.13	0.50
1:A:678:VAL:HG22	1:A:745:TYR:CD2	2.46	0.50
1:A:85:LEU:HD12	1:A:168:GLU:OE1	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:389:LYS:CG	1:B:393:GLU:HG3	2.42	0.50
1:B:694:VAL:CG2	1:B:695:LYS:N	2.74	0.50
1:B:90:PRO:HG2	1:B:93:VAL:CG1	2.42	0.50
1:C:333:LYS:O	1:C:335:ALA:N	2.41	0.50
1:C:357:TRP:HA	1:C:418:ILE:CG2	2.41	0.50
1:C:549:LEU:HG	1:C:550:SER:O	2.11	0.50
1:C:83:GLN:O	1:C:85:LEU:N	2.45	0.50
1:D:217:LYS:HB2	1:D:236:GLU:HG3	1.94	0.50
1:D:333:LYS:HD2	1:D:333:LYS:H	1.76	0.50
1:D:597:ASN:OD1	1:D:598:PRO:HD2	2.12	0.50
1:D:759:GLN:HA	1:D:759:GLN:HE21	1.76	0.50
1:E:115:LYS:HB2	1:E:118:GLN:CG	2.42	0.50
1:E:600:GLY:O	1:E:602:PHE:HD2	1.94	0.50
1:E:629:ASN:ND2	1:E:631:SER:H	2.10	0.50
1:F:593:ILE:O	1:F:604:LEU:HA	2.11	0.50
2:J:137:ASN:OD1	2:J:139:GLU:HB2	2.12	0.50
2:J:37:ARG:O	2:J:40:GLY:N	2.45	0.50
2:K:94:LYS:NZ	2:K:94:LYS:HB3	2.26	0.50
1:A:600:GLY:O	1:A:602:PHE:HD2	1.94	0.50
1:A:680:LYS:HG2	1:A:681:ASP:H	1.76	0.50
1:B:365:PRO:HB2	1:B:367:ASP:O	2.12	0.50
1:B:443:GLU:CD	1:B:458:LYS:HG2	2.31	0.50
1:B:322:LEU:HD13	1:B:556:MET:CE	2.42	0.50
1:B:597:ASN:OD1	1:B:598:PRO:HD2	2.12	0.50
1:B:76:LEU:O	1:B:79:ILE:N	2.44	0.50
1:C:100:LEU:CD1	1:C:182:ILE:HG21	2.39	0.50
1:C:173:ILE:HD12	1:C:243:LEU:HD21	1.93	0.50
1:C:754:GLU:CG	1:C:758:ASN:HD21	2.25	0.50
1:C:764:LEU:C	1:C:766:HIS:N	2.64	0.50
1:D:165:GLN:HE22	1:D:252:ASP:HB3	1.75	0.50
1:D:173:ILE:C	1:D:175:LYS:N	2.65	0.50
1:E:173:ILE:O	1:E:175:LYS:N	2.45	0.50
1:E:220:LEU:HG	1:E:223:LYS:HB2	1.94	0.50
1:E:561:ASN:C	1:E:563:ALA:N	2.65	0.50
1:E:788:ASP:O	1:E:792:VAL:HG23	2.12	0.50
1:F:234:LEU:HD23	1:F:235:THR:H	1.75	0.50
1:F:691:LYS:O	1:F:694:VAL:HG22	2.12	0.50
2:H:12:PHE:CD1	2:H:72:MET:HG3	2.47	0.50
2:H:16:PHE:HE1	2:H:27:ILE:HG12	1.77	0.50
2:M:105:LEU:HD21	2:M:124:MET:SD	2.52	0.50
1:A:189:ASP:O	1:A:191:GLU:N	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:413:LEU:HB2	1:A:419:ILE:CD1	2.42	0.50
1:A:579:THR:C	1:A:581:GLN:H	2.14	0.50
1:B:115:LYS:HB2	1:B:118:GLN:CG	2.42	0.50
1:B:281:GLU:O	1:B:285:LYS:HG2	2.12	0.50
1:B:752:LEU:O	1:B:756:ILE:HG12	2.11	0.50
1:C:243:LEU:HA	1:C:246:SER:OG	2.11	0.50
1:C:306:GLY:HA3	1:C:331:VAL:O	2.12	0.50
1:C:360:VAL:HG11	1:C:370:LEU:CD2	2.37	0.50
1:C:495:PHE:O	1:C:495:PHE:CD1	2.65	0.50
1:C:678:VAL:HG22	1:C:745:TYR:CD2	2.46	0.50
1:C:788:ASP:O	1:C:792:VAL:HG23	2.12	0.50
1:D:115:LYS:HB2	1:D:118:GLN:CG	2.42	0.50
1:D:279:ILE:CD1	1:D:279:ILE:H	2.20	0.50
1:D:288:VAL:O	1:D:292:ARG:HG2	2.12	0.50
1:D:288:VAL:HG12	1:D:292:ARG:NH2	2.27	0.50
1:D:583:ASN:ND2	1:D:587:PRO:HA	2.26	0.50
1:D:90:PRO:HG2	1:D:93:VAL:CG1	2.42	0.50
1:E:549:LEU:HG	1:E:550:SER:O	2.11	0.50
1:F:107:THR:HG21	1:F:115:LYS:HE3	1.94	0.50
1:F:214:PHE:CB	1:F:218:LEU:HB3	2.41	0.50
1:F:217:LYS:HB2	1:F:236:GLU:HG3	1.94	0.50
1:F:495:PHE:O	1:F:495:PHE:CD1	2.65	0.50
1:F:716:LYS:O	1:F:717:LYS:C	2.49	0.50
2:H:117:THR:C	2:H:119:GLU:N	2.66	0.50
2:H:4:ALA:HB1	2:H:8:GLN:HG2	1.94	0.50
2:I:52:ILE:HG23	2:I:53:ASN:N	2.27	0.50
2:I:93:ASP:OD1	2:I:97:ASN:ND2	2.45	0.50
2:J:12:PHE:CD1	2:J:72:MET:HG3	2.47	0.50
2:M:81:SER:O	2:M:82:GLU:C	2.51	0.50
1:A:792:VAL:CG1	1:A:796:ILE:HD11	2.37	0.50
1:B:165:GLN:HE22	1:B:252:ASP:HB3	1.75	0.50
1:B:173:ILE:O	1:B:175:LYS:N	2.45	0.50
1:C:597:ASN:OD1	1:C:598:PRO:HD2	2.12	0.50
1:C:691:LYS:O	1:C:694:VAL:HG22	2.12	0.50
1:C:76:LEU:O	1:C:79:ILE:N	2.45	0.50
1:C:90:PRO:O	1:C:92:ASP:N	2.45	0.50
1:D:76:LEU:O	1:D:79:ILE:N	2.45	0.50
1:E:165:GLN:C	1:E:167:LYS:N	2.65	0.50
1:E:495:PHE:CD1	1:E:495:PHE:O	2.65	0.50
1:E:680:LYS:HG2	1:E:681:ASP:H	1.76	0.50
1:E:90:PRO:O	1:E:92:ASP:N	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:142:VAL:CG2	1:F:154:ILE:HD12	2.37	0.50
1:F:188:LEU:N	1:F:188:LEU:CD2	2.56	0.50
1:F:327:LEU:HG	1:F:595:ILE:CG1	2.26	0.50
1:F:395:GLU:OE1	1:F:395:GLU:N	2.45	0.50
1:F:711:ILE:C	1:F:712:PHE:HD2	2.16	0.50
1:F:90:PRO:HG2	1:F:93:VAL:CG1	2.42	0.50
2:H:105:LEU:HD21	2:H:124:MET:SD	2.51	0.50
2:L:37:ARG:O	2:L:40:GLY:N	2.45	0.50
1:A:175:LYS:HZ3	1:A:175:LYS:HB2	1.75	0.49
1:A:173:ILE:HD12	1:A:243:LEU:HD21	1.94	0.49
1:A:288:VAL:HG12	1:A:292:ARG:HH22	1.77	0.49
1:A:584:GLU:HG2	1:A:630:ARG:HB2	1.94	0.49
1:A:587:PRO:HD2	1:A:639:ASN:HD21	1.77	0.49
1:B:153:ILE:C	1:B:154:ILE:HD13	2.32	0.49
1:B:333:LYS:O	1:B:335:ALA:N	2.43	0.49
1:B:609:GLU:O	1:B:610:MET:C	2.49	0.49
1:B:587:PRO:HD2	1:B:639:ASN:HD21	1.77	0.49
1:C:173:ILE:O	1:C:175:LYS:N	2.44	0.49
1:C:254:ARG:N	1:C:254:ARG:HD2	2.18	0.49
1:C:520:PRO:HG2	1:C:521:ASN:N	2.19	0.49
1:C:716:LYS:O	1:C:717:LYS:C	2.49	0.49
1:D:175:LYS:HB2	1:D:175:LYS:HZ2	1.77	0.49
1:D:593:ILE:O	1:D:604:LEU:HA	2.12	0.49
1:D:678:VAL:HG22	1:D:745:TYR:CD2	2.46	0.49
1:D:792:VAL:CG1	1:D:796:ILE:HD11	2.37	0.49
1:E:322:LEU:HD13	1:E:556:MET:CE	2.42	0.49
1:E:711:ILE:C	1:E:712:PHE:HD2	2.16	0.49
1:E:71:PHE:CD1	1:E:108:ASP:OD1	2.64	0.49
1:F:365:PRO:HB2	1:F:367:ASP:O	2.12	0.49
1:F:455:TYR:O	1:F:471:TRP:HA	2.12	0.49
2:K:146:THR:O	2:K:147:ALA:C	2.49	0.49
2:K:21:LYS:O	2:K:23:GLY:N	2.37	0.49
1:E:513:TRP:CH2	2:L:114:GLU:HB2	2.47	0.49
1:A:357:TRP:HA	1:A:418:ILE:CG2	2.41	0.49
1:A:365:PRO:HB2	1:A:367:ASP:O	2.12	0.49
1:B:112:VAL:C	1:B:114:HIS:N	2.65	0.49
1:B:711:ILE:C	1:B:712:PHE:HD2	2.16	0.49
1:B:658:PRO:HG3	1:B:752:LEU:HD22	1.94	0.49
1:C:107:THR:HG21	1:C:115:LYS:HE3	1.95	0.49
1:C:288:VAL:O	1:C:292:ARG:HG2	2.12	0.49
1:C:520:PRO:CG	1:C:521:ASN:H	2.15	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:145:LYS:CB	1:D:151:LYS:HB2	2.41	0.49
1:D:413:LEU:HB2	1:D:419:ILE:CD1	2.42	0.49
1:D:357:TRP:HA	1:D:418:ILE:CG2	2.41	0.49
1:D:581:GLN:HE21	1:D:581:GLN:HA	1.76	0.49
1:E:306:GLY:HA3	1:E:331:VAL:O	2.12	0.49
1:E:517:VAL:HG23	1:E:518:ASN:ND2	2.28	0.49
1:F:165:GLN:C	1:F:167:LYS:N	2.65	0.49
1:F:413:LEU:HB2	1:F:419:ILE:CD1	2.42	0.49
1:F:597:ASN:OD1	1:F:598:PRO:HD2	2.12	0.49
2:H:16:PHE:CE1	2:H:27:ILE:CD1	2.95	0.49
2:H:16:PHE:CE1	2:H:27:ILE:HD13	2.47	0.49
2:I:89:PHE:HD1	2:I:141:PHE:CD2	2.30	0.49
2:I:49:GLN:O	2:I:53:ASN:N	2.39	0.49
2:J:93:ASP:OD1	2:J:97:ASN:ND2	2.44	0.49
2:K:81:SER:O	2:K:82:GLU:C	2.50	0.49
1:A:112:VAL:C	1:A:114:HIS:N	2.65	0.49
1:A:385:LEU:HD13	1:A:385:LEU:O	2.12	0.49
1:A:395:GLU:N	1:A:395:GLU:OE1	2.46	0.49
1:A:500:SER:O	1:A:501:LEU:C	2.50	0.49
1:A:694:VAL:CG2	1:A:695:LYS:N	2.75	0.49
1:A:76:LEU:O	1:A:79:ILE:N	2.45	0.49
1:B:306:GLY:HA3	1:B:331:VAL:O	2.12	0.49
1:B:461:LYS:HG3	1:B:462:ILE:H	1.76	0.49
1:B:500:SER:O	1:B:501:LEU:C	2.50	0.49
1:B:517:VAL:HG23	1:B:518:ASN:ND2	2.27	0.49
1:B:654:ILE:HG22	1:B:655:ASN:ND2	2.26	0.49
1:C:389:LYS:CG	1:C:393:GLU:HG3	2.42	0.49
1:C:395:GLU:OE1	1:C:395:GLU:N	2.45	0.49
1:C:632:TYR:O	1:C:633:ASN:CB	2.58	0.49
1:D:112:VAL:C	1:D:114:HIS:N	2.65	0.49
1:D:165:GLN:C	1:D:167:LYS:N	2.65	0.49
1:D:77:ASP:O	1:D:81:GLN:CB	2.60	0.49
1:E:173:ILE:HD12	1:E:243:LEU:HD21	1.94	0.49
1:E:281:GLU:O	1:E:285:LYS:HG2	2.12	0.49
1:E:385:LEU:O	1:E:385:LEU:HD13	2.12	0.49
1:F:549:LEU:HG	1:F:550:SER:O	2.11	0.49
1:F:609:GLU:O	1:F:610:MET:C	2.50	0.49
1:A:668:SER:CA	2:H:14:GLU:HG3	2.40	0.49
2:I:97:ASN:H	2:I:97:ASN:HD22	1.59	0.49
2:K:137:ASN:OD1	2:K:139:GLU:HB2	2.12	0.49
2:L:16:PHE:CE1	2:L:27:ILE:CD1	2.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:327:LEU:CG	1:A:595:ILE:HG12	2.27	0.49
1:B:173:ILE:HD12	1:B:243:LEU:HD21	1.93	0.49
1:B:455:TYR:O	1:B:471:TRP:HA	2.12	0.49
1:C:142:VAL:CG2	1:C:154:ILE:HD12	2.39	0.49
1:C:694:VAL:CG2	1:C:695:LYS:N	2.75	0.49
1:D:141:PHE:HD1	1:D:141:PHE:N	2.01	0.49
1:D:153:ILE:C	1:D:154:ILE:HD13	2.32	0.49
1:D:711:ILE:C	1:D:712:PHE:HD2	2.16	0.49
1:E:515:LYS:O	1:E:515:LYS:HG2	2.10	0.49
1:E:587:PRO:HD2	1:E:639:ASN:HD21	1.77	0.49
1:F:173:ILE:O	1:F:175:LYS:N	2.46	0.49
2:K:16:PHE:CE1	2:K:27:ILE:CD1	2.95	0.49
1:A:97:TYR:CE2	1:A:150:PRO:HB2	2.47	0.49
1:A:597:ASN:OD1	1:A:598:PRO:HD2	2.13	0.49
1:A:711:ILE:C	1:A:712:PHE:HD2	2.16	0.49
1:A:754:GLU:CG	1:A:758:ASN:HD21	2.25	0.49
1:A:788:ASP:O	1:A:792:VAL:HG23	2.12	0.49
1:B:148:GLU:CG	1:B:149:THR:N	2.68	0.49
1:B:165:GLN:C	1:B:167:LYS:N	2.66	0.49
1:C:318:ILE:CD1	1:C:318:ILE:H	2.11	0.49
1:C:368:GLN:C	1:C:370:LEU:H	2.15	0.49
1:D:296:LEU:O	1:D:301:ALA:HB2	2.13	0.49
1:D:517:VAL:HG23	1:D:518:ASN:ND2	2.28	0.49
1:E:389:LYS:CG	1:E:393:GLU:HG3	2.43	0.49
1:F:173:ILE:HD12	1:F:243:LEU:HD21	1.93	0.49
1:F:520:PRO:CG	1:F:521:ASN:H	2.15	0.49
2:J:95:ASP:OD2	2:J:97:ASN:CG	2.50	0.49
2:L:146:THR:O	2:L:147:ALA:C	2.50	0.49
2:M:137:ASN:OD1	2:M:139:GLU:HB2	2.13	0.49
2:M:37:ARG:O	2:M:40:GLY:N	2.46	0.49
1:A:281:GLU:O	1:A:285:LYS:HG2	2.13	0.49
1:A:657:ILE:HB	1:A:759:GLN:HG2	1.94	0.49
1:B:217:LYS:HB2	1:B:236:GLU:HG3	1.94	0.49
1:B:325:TYR:C	1:B:326:ILE:HG13	2.33	0.49
1:B:543:ASP:OD1	1:B:544:SER:N	2.45	0.49
1:C:500:SER:O	1:C:501:LEU:C	2.50	0.49
1:D:107:THR:HG21	1:D:115:LYS:HE3	1.94	0.49
1:D:306:GLY:HA3	1:D:331:VAL:O	2.12	0.49
1:D:600:GLY:O	1:D:602:PHE:HD2	1.94	0.49
1:D:609:GLU:O	1:D:610:MET:C	2.50	0.49
1:D:587:PRO:HD2	1:D:639:ASN:HD21	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:533:LEU:HD13	1:E:533:LEU:O	2.13	0.49
1:E:694:VAL:CG2	1:E:695:LYS:N	2.75	0.49
1:F:145:LYS:CB	1:F:151:LYS:HB2	2.42	0.49
1:F:443:GLU:HG3	1:F:458:LYS:CG	2.43	0.49
2:I:89:PHE:C	2:I:91:VAL:N	2.66	0.49
2:K:49:GLN:O	2:K:53:ASN:N	2.40	0.49
2:K:52:ILE:HG23	2:K:53:ASN:N	2.28	0.49
2:L:89:PHE:HD1	2:L:141:PHE:CD2	2.30	0.49
2:L:52:ILE:HG23	2:L:53:ASN:N	2.28	0.49
1:A:609:GLU:O	1:A:610:MET:C	2.50	0.49
1:B:495:PHE:O	1:B:495:PHE:CD1	2.66	0.49
1:C:234:LEU:HD23	1:C:235:THR:H	1.75	0.49
1:C:461:LYS:HG3	1:C:462:ILE:H	1.76	0.49
1:C:543:ASP:OD1	1:C:544:SER:N	2.46	0.49
1:C:636:ALA:O	1:C:640:LYS:HA	2.13	0.49
1:D:148:GLU:HG3	1:D:149:THR:H	1.73	0.49
1:D:173:ILE:HD12	1:D:243:LEU:HD21	1.93	0.49
1:D:365:PRO:HB2	1:D:367:ASP:O	2.12	0.49
1:D:513:TRP:CH2	2:K:114:GLU:HB2	2.47	0.49
1:D:657:ILE:HG21	1:D:704:TYR:CG	2.48	0.49
1:E:654:ILE:HG22	1:E:655:ASN:ND2	2.28	0.49
1:F:562:GLU:HG3	1:F:562:GLU:O	2.11	0.49
2:I:4:ALA:HB1	2:I:8:GLN:HG2	1.93	0.49
2:J:52:ILE:HG23	2:J:53:ASN:N	2.28	0.49
2:K:13:LYS:NZ	2:K:65:PHE:CB	2.76	0.49
2:K:95:ASP:OD2	2:K:97:ASN:CG	2.50	0.49
2:M:16:PHE:CE1	2:M:27:ILE:CD1	2.95	0.49
1:A:115:LYS:HB2	1:A:118:GLN:CG	2.42	0.49
1:A:165:GLN:C	1:A:167:LYS:N	2.65	0.49
1:A:443:GLU:HG3	1:A:458:LYS:CG	2.42	0.49
1:A:533:LEU:O	1:A:533:LEU:HD13	2.12	0.49
1:A:759:GLN:HA	1:A:759:GLN:HE21	1.77	0.49
1:A:756:ILE:O	1:A:760:VAL:HG23	2.11	0.49
1:A:90:PRO:O	1:A:92:ASP:N	2.45	0.49
1:B:403:LEU:HD22	1:B:474:ILE:HG21	1.95	0.49
1:B:324:THR:CG2	1:B:499:PRO:HA	2.43	0.49
1:B:657:ILE:HB	1:B:759:GLN:HG2	1.95	0.49
1:B:759:GLN:HE21	1:B:759:GLN:HA	1.77	0.49
1:B:767:GLN:CG	1:B:768:LYS:HG2	2.42	0.49
1:B:783:THR:HG22	1:B:784:GLU:N	2.27	0.49
1:B:788:ASP:O	1:B:792:VAL:HG23	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:153:ILE:C	1:C:154:ILE:HD13	2.32	0.49
1:C:214:PHE:CB	1:C:218:LEU:HB3	2.41	0.49
1:C:376:GLN:O	1:C:378:LEU:N	2.45	0.49
1:C:401:ILE:HG21	1:C:485:LEU:HB3	1.95	0.49
1:C:322:LEU:HD13	1:C:556:MET:CE	2.42	0.49
1:C:593:ILE:O	1:C:604:LEU:HA	2.12	0.49
1:C:713:SER:O	1:C:716:LYS:N	2.39	0.49
1:C:755:ARG:O	1:C:756:ILE:C	2.50	0.49
1:C:90:PRO:HG2	1:C:93:VAL:CG1	2.43	0.49
1:D:443:GLU:HG3	1:D:458:LYS:CG	2.43	0.49
1:D:495:PHE:CD1	1:D:495:PHE:O	2.66	0.49
1:E:217:LYS:HB2	1:E:236:GLU:HG3	1.94	0.49
1:E:376:GLN:O	1:E:378:LEU:N	2.46	0.49
1:E:403:LEU:HD22	1:E:474:ILE:HG21	1.95	0.49
1:E:500:SER:O	1:E:501:LEU:C	2.50	0.49
1:E:657:ILE:HG21	1:E:704:TYR:CG	2.48	0.49
1:E:755:ARG:O	1:E:756:ILE:C	2.51	0.49
1:E:783:THR:HG22	1:E:784:GLU:N	2.28	0.49
1:E:97:TYR:CE2	1:E:150:PRO:HB2	2.47	0.49
1:F:116:GLU:O	1:F:117:LEU:HD22	2.13	0.49
1:F:306:GLY:HA3	1:F:331:VAL:O	2.12	0.49
1:F:517:VAL:HG23	1:F:518:ASN:ND2	2.28	0.49
1:F:759:GLN:HE21	1:F:759:GLN:HA	1.78	0.49
1:F:76:LEU:O	1:F:79:ILE:N	2.45	0.49
2:H:52:ILE:HG23	2:H:53:ASN:N	2.28	0.49
2:J:117:THR:C	2:J:119:GLU:N	2.66	0.49
2:J:16:PHE:HE1	2:J:27:ILE:HG12	1.76	0.49
2:K:37:ARG:O	2:K:40:GLY:N	2.46	0.49
1:E:668:SER:CA	2:L:14:GLU:HG3	2.41	0.49
2:M:93:ASP:OD1	2:M:97:ASN:ND2	2.46	0.49
1:A:561:ASN:C	1:A:563:ALA:N	2.66	0.49
1:A:581:GLN:HE21	1:A:581:GLN:HA	1.77	0.49
1:B:214:PHE:CB	1:B:218:LEU:HB3	2.41	0.49
1:C:165:GLN:CD	1:C:252:ASP:HB3	2.34	0.49
1:C:225:ILE:HG23	1:C:229:PHE:CE2	2.47	0.49
1:C:288:VAL:HG12	1:C:292:ARG:NH2	2.27	0.49
1:C:443:GLU:HG3	1:C:458:LYS:CG	2.43	0.49
1:C:759:GLN:HA	1:C:759:GLN:HE21	1.77	0.49
1:D:754:GLU:CG	1:D:758:ASN:HD21	2.26	0.49
1:E:443:GLU:HG3	1:E:458:LYS:CG	2.43	0.49
1:E:90:PRO:HG2	1:E:93:VAL:CG1	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:97:TYR:CE2	1:F:150:PRO:HB2	2.47	0.49
1:F:318:ILE:H	1:F:318:ILE:CD1	2.13	0.49
1:F:783:THR:HG22	1:F:784:GLU:N	2.27	0.49
2:I:65:PHE:CD1	2:I:65:PHE:N	2.70	0.49
2:J:12:PHE:HE1	2:J:72:MET:CG	2.25	0.49
2:J:16:PHE:CE1	2:J:27:ILE:CD1	2.95	0.49
2:J:89:PHE:C	2:J:91:VAL:N	2.65	0.49
2:K:12:PHE:CD1	2:K:72:MET:HG3	2.48	0.49
2:L:137:ASN:OD1	2:L:139:GLU:HB2	2.13	0.49
2:L:13:LYS:NZ	2:L:65:PHE:CB	2.76	0.49
2:L:65:PHE:CD1	2:L:65:PHE:N	2.70	0.49
1:A:742:ALA:HB1	1:A:744:GLU:CD	2.33	0.49
1:B:107:THR:HG21	1:B:115:LYS:HE3	1.94	0.49
1:B:145:LYS:CB	1:B:151:LYS:HB2	2.43	0.49
1:B:97:TYR:CE2	1:B:150:PRO:HB2	2.47	0.49
1:B:360:VAL:HG11	1:B:370:LEU:CD2	2.37	0.49
1:B:368:GLN:C	1:B:370:LEU:H	2.15	0.49
1:B:413:LEU:HB2	1:B:419:ILE:CD1	2.42	0.49
1:B:678:VAL:HG22	1:B:745:TYR:CD2	2.48	0.49
1:B:754:GLU:CG	1:B:758:ASN:HD21	2.25	0.49
1:C:270:LYS:HA	1:C:273:LYS:CG	2.43	0.49
1:C:270:LYS:HA	1:C:273:LYS:HB2	1.95	0.49
1:C:587:PRO:HD2	1:C:639:ASN:HD21	1.77	0.49
1:D:248:TYR:C	1:D:248:TYR:HD2	2.17	0.49
1:D:270:LYS:HA	1:D:273:LYS:HB2	1.95	0.49
1:D:543:ASP:OD1	1:D:544:SER:N	2.46	0.49
1:E:360:VAL:HG11	1:E:370:LEU:CD2	2.36	0.49
1:E:413:LEU:HB2	1:E:419:ILE:CD1	2.42	0.49
1:E:597:ASN:ND2	1:E:601:GLU:HG3	2.28	0.49
1:F:324:THR:CG2	1:F:499:PRO:HA	2.43	0.49
1:F:657:ILE:HG21	1:F:704:TYR:CG	2.48	0.49
1:F:755:ARG:O	1:F:756:ILE:C	2.51	0.49
1:A:115:LYS:NZ	1:A:116:GLU:H	2.05	0.48
1:A:583:ASN:ND2	1:A:587:PRO:HA	2.27	0.48
1:A:657:ILE:HG21	1:A:704:TYR:CG	2.48	0.48
1:A:77:ASP:O	1:A:81:GLN:CB	2.60	0.48
1:B:225:ILE:HG23	1:B:229:PHE:CE2	2.48	0.48
1:B:345:THR:HG21	1:B:574:VAL:HG23	1.95	0.48
1:C:296:LEU:O	1:C:301:ALA:HB2	2.13	0.48
1:C:597:ASN:ND2	1:C:601:GLU:HG3	2.28	0.48
1:C:783:THR:HG22	1:C:784:GLU:N	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:145:LYS:HD3	1:D:151:LYS:HD2	1.95	0.48
1:D:376:GLN:O	1:D:378:LEU:N	2.45	0.48
1:D:694:VAL:CG2	1:D:695:LYS:N	2.76	0.48
1:E:500:SER:O	1:E:503:GLU:N	2.38	0.48
1:E:543:ASP:OD1	1:E:544:SER:N	2.46	0.48
1:E:658:PRO:HG3	1:E:752:LEU:HD22	1.95	0.48
1:F:153:ILE:C	1:F:154:ILE:HD13	2.32	0.48
1:F:173:ILE:O	1:F:176:GLY:N	2.45	0.48
1:F:296:LEU:O	1:F:301:ALA:HB2	2.13	0.48
1:F:788:ASP:O	1:F:792:VAL:HG23	2.13	0.48
2:I:32:LEU:O	2:I:32:LEU:HD12	2.13	0.48
2:I:3:ALA:N	2:I:77:LYS:HD3	2.28	0.48
2:J:101:SER:OG	2:J:104:GLU:OE1	2.31	0.48
2:J:81:SER:O	2:J:82:GLU:C	2.50	0.48
2:M:117:THR:C	2:M:119:GLU:N	2.66	0.48
1:A:214:PHE:CB	1:A:218:LEU:HB3	2.41	0.48
1:A:520:PRO:HG2	1:A:521:ASN:N	2.19	0.48
1:A:543:ASP:OD1	1:A:544:SER:N	2.46	0.48
1:B:581:GLN:HA	1:B:581:GLN:HE21	1.77	0.48
1:C:112:VAL:C	1:C:114:HIS:N	2.65	0.48
1:C:175:LYS:HB2	1:C:175:LYS:HZ3	1.78	0.48
1:C:455:TYR:O	1:C:471:TRP:HA	2.13	0.48
1:D:214:PHE:CE1	1:D:218:LEU:HD23	2.48	0.48
1:D:500:SER:O	1:D:501:LEU:C	2.51	0.48
1:D:783:THR:HG22	1:D:784:GLU:N	2.28	0.48
1:E:116:GLU:O	1:E:117:LEU:HD22	2.13	0.48
1:E:142:VAL:HG22	1:E:154:ILE:CG2	2.43	0.48
1:E:530:THR:CG2	2:L:88:ALA:HB1	2.43	0.48
1:E:754:GLU:CG	1:E:758:ASN:HD21	2.25	0.48
1:F:333:LYS:H	1:F:333:LYS:HD2	1.77	0.48
1:F:652:ALA:HB1	2:M:99:TYR:HE1	1.79	0.48
2:H:65:PHE:N	2:H:65:PHE:CD1	2.70	0.48
2:H:93:ASP:OD1	2:H:97:ASN:ND2	2.46	0.48
2:I:117:THR:C	2:I:119:GLU:N	2.66	0.48
2:I:37:ARG:O	2:I:40:GLY:N	2.46	0.48
2:J:24:ASP:OD1	2:J:25:GLY:N	2.36	0.48
2:L:3:ALA:N	2:L:77:LYS:HD3	2.28	0.48
2:L:81:SER:O	2:L:82:GLU:C	2.50	0.48
2:M:12:PHE:CD1	2:M:72:MET:HG3	2.47	0.48
2:M:89:PHE:C	2:M:91:VAL:N	2.65	0.48
2:M:94:LYS:NZ	2:M:94:LYS:HB3	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:145:LYS:CB	1:A:151:LYS:HB2	2.42	0.48
1:A:225:ILE:HG23	1:A:229:PHE:CE2	2.48	0.48
1:A:306:GLY:HA3	1:A:331:VAL:O	2.13	0.48
1:B:385:LEU:O	1:B:385:LEU:HD13	2.13	0.48
1:D:597:ASN:ND2	1:D:601:GLU:HG3	2.28	0.48
1:D:742:ALA:HB1	1:D:744:GLU:CD	2.33	0.48
1:E:165:GLN:CD	1:E:252:ASP:HB3	2.33	0.48
1:E:742:ALA:HB1	1:E:744:GLU:CD	2.33	0.48
1:E:747:ASN:HD22	1:E:747:ASN:N	2.11	0.48
1:F:376:GLN:O	1:F:378:LEU:N	2.45	0.48
1:F:543:ASP:OD1	1:F:544:SER:N	2.46	0.48
1:F:627:TYR:CD1	1:F:627:TYR:O	2.67	0.48
1:F:710:HIS:C	1:F:712:PHE:N	2.67	0.48
2:H:12:PHE:HE1	2:H:72:MET:CG	2.26	0.48
2:H:81:SER:O	2:H:82:GLU:C	2.51	0.48
1:A:153:ILE:C	1:A:154:ILE:HD13	2.32	0.48
1:A:296:LEU:O	1:A:301:ALA:HB2	2.13	0.48
1:A:368:GLN:C	1:A:370:LEU:H	2.15	0.48
1:A:376:GLN:O	1:A:378:LEU:N	2.46	0.48
1:B:561:ASN:C	1:B:563:ALA:N	2.65	0.48
1:B:657:ILE:HG21	1:B:704:TYR:CG	2.48	0.48
1:C:145:LYS:CB	1:C:151:LYS:HB2	2.43	0.48
1:C:220:LEU:HG	1:C:223:LYS:HB2	1.95	0.48
1:C:248:TYR:C	1:C:248:TYR:HD2	2.17	0.48
1:D:324:THR:CG2	1:D:499:PRO:HA	2.44	0.48
1:E:225:ILE:HG23	1:E:229:PHE:CE2	2.48	0.48
1:E:345:THR:HG21	1:E:574:VAL:HG23	1.95	0.48
1:F:220:LEU:HG	1:F:223:LYS:HB2	1.95	0.48
1:F:248:TYR:HD2	1:F:248:TYR:C	2.17	0.48
1:F:264:MET:O	1:F:268:MET:HG2	2.13	0.48
1:F:597:ASN:ND2	1:F:601:GLU:HG3	2.29	0.48
1:B:530:THR:CG2	2:I:88:ALA:HB1	2.44	0.48
2:J:3:ALA:N	2:J:77:LYS:HD3	2.28	0.48
2:L:49:GLN:O	2:L:53:ASN:N	2.39	0.48
2:M:97:ASN:H	2:M:97:ASN:HD22	1.61	0.48
1:A:248:TYR:C	1:A:248:TYR:HD2	2.17	0.48
1:A:389:LYS:CG	1:A:393:GLU:HG3	2.43	0.48
1:B:680:LYS:HG2	1:B:681:ASP:H	1.76	0.48
1:C:173:ILE:C	1:C:175:LYS:N	2.64	0.48
1:C:517:VAL:HG23	1:C:518:ASN:ND2	2.28	0.48
1:D:205:SER:C	1:D:207:ASP:H	2.17	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:533:LEU:HD13	1:D:533:LEU:O	2.13	0.48
1:D:747:ASN:N	1:D:747:ASN:HD22	2.11	0.48
1:E:530:THR:O	1:E:534:ILE:HG13	2.14	0.48
1:F:281:GLU:O	1:F:285:LYS:HG2	2.12	0.48
1:F:325:TYR:C	1:F:326:ILE:HG13	2.34	0.48
2:H:110:THR:O	2:H:113:GLY:N	2.47	0.48
2:I:105:LEU:HD21	2:I:124:MET:SD	2.53	0.48
2:I:12:PHE:CD1	2:I:72:MET:HG3	2.48	0.48
2:J:13:LYS:NZ	2:J:65:PHE:CB	2.76	0.48
2:L:12:PHE:CD1	2:L:72:MET:HG3	2.47	0.48
2:L:89:PHE:C	2:L:91:VAL:N	2.65	0.48
1:A:658:PRO:HG3	1:A:752:LEU:HD22	1.95	0.48
1:B:214:PHE:CE1	1:B:218:LEU:HD23	2.49	0.48
1:B:500:SER:O	1:B:503:GLU:N	2.37	0.48
1:B:513:TRP:CH2	2:I:114:GLU:HB2	2.49	0.48
1:D:627:TYR:O	1:D:627:TYR:CD1	2.66	0.48
1:D:636:ALA:O	1:D:640:LYS:HA	2.14	0.48
1:D:657:ILE:HB	1:D:759:GLN:HG2	1.94	0.48
1:E:296:LEU:O	1:E:301:ALA:HB2	2.14	0.48
1:E:360:VAL:O	1:E:363:TYR:HB2	2.13	0.48
1:E:684:ASP:O	1:E:686:ASP:N	2.47	0.48
1:F:364:ILE:HD13	1:F:364:ILE:N	2.29	0.48
1:F:446:ILE:HD11	1:F:451:ASN:HB3	1.95	0.48
1:F:327:LEU:CG	1:F:595:ILE:HG12	2.26	0.48
1:F:694:VAL:CG2	1:F:695:LYS:N	2.76	0.48
1:F:85:LEU:HD12	1:F:168:GLU:OE1	2.13	0.48
1:A:717:LYS:HB2	2:H:132:GLY:HA3	1.96	0.48
2:I:16:PHE:CE1	2:I:27:ILE:CD1	2.94	0.48
2:K:97:ASN:HD22	2:K:97:ASN:H	1.61	0.48
2:L:127:GLU:HG2	2:L:127:GLU:O	2.13	0.48
1:A:360:VAL:HG11	1:A:370:LEU:CD2	2.37	0.48
1:A:597:ASN:ND2	1:A:601:GLU:HG3	2.29	0.48
1:B:652:ALA:HB1	2:I:99:TYR:HE1	1.79	0.48
1:C:165:GLN:C	1:C:167:LYS:N	2.65	0.48
1:C:264:MET:O	1:C:268:MET:HG2	2.14	0.48
1:C:561:ASN:C	1:C:563:ALA:N	2.66	0.48
1:D:368:GLN:C	1:D:370:LEU:H	2.15	0.48
1:D:327:LEU:CG	1:D:595:ILE:HG12	2.26	0.48
1:D:788:ASP:O	1:D:792:VAL:HG23	2.13	0.48
1:E:597:ASN:OD1	1:E:598:PRO:CD	2.62	0.48
1:F:165:GLN:CD	1:F:252:ASP:HB3	2.34	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:684:ASP:O	1:F:686:ASP:N	2.47	0.48
2:H:89:PHE:HD1	2:H:141:PHE:CD2	2.31	0.48
2:M:12:PHE:HE1	2:M:72:MET:CG	2.26	0.48
2:M:52:ILE:HG23	2:M:53:ASN:N	2.28	0.48
1:A:145:LYS:HD3	1:A:151:LYS:HD2	1.95	0.48
1:A:755:ARG:O	1:A:756:ILE:C	2.51	0.48
1:B:170:TYR:O	1:B:174:GLY:N	2.47	0.48
1:B:264:MET:O	1:B:268:MET:HG2	2.14	0.48
1:B:533:LEU:O	1:B:533:LEU:HD13	2.14	0.48
1:B:742:ALA:HB1	1:B:744:GLU:CD	2.33	0.48
1:C:131:ARG:HG3	1:C:243:LEU:CD2	2.44	0.48
1:C:214:PHE:CE1	1:C:218:LEU:HD23	2.48	0.48
1:C:364:ILE:HD13	1:C:364:ILE:N	2.29	0.48
1:C:530:THR:O	1:C:534:ILE:HG13	2.13	0.48
1:C:562:GLU:O	1:C:562:GLU:HG3	2.12	0.48
1:C:85:LEU:HD12	1:C:168:GLU:OE1	2.14	0.48
1:D:264:MET:O	1:D:268:MET:HG2	2.14	0.48
1:D:281:GLU:O	1:D:285:LYS:HG2	2.13	0.48
1:D:364:ILE:N	1:D:364:ILE:HD13	2.29	0.48
1:D:385:LEU:HD13	1:D:385:LEU:O	2.13	0.48
1:E:248:TYR:CD2	1:E:248:TYR:C	2.87	0.48
1:E:248:TYR:HD2	1:E:248:TYR:C	2.17	0.48
1:E:364:ILE:N	1:E:364:ILE:HD13	2.28	0.48
1:E:554:LYS:O	1:E:555:GLN:C	2.52	0.48
1:F:214:PHE:CE1	1:F:218:LEU:HD23	2.49	0.48
1:F:248:TYR:CD2	1:F:248:TYR:C	2.87	0.48
1:F:279:ILE:CD1	1:F:279:ILE:H	2.20	0.48
1:F:345:THR:HG21	1:F:574:VAL:HG23	1.96	0.48
1:F:530:THR:O	1:F:534:ILE:HG13	2.14	0.48
1:F:622:LYS:O	1:F:623:ASP:HB2	2.14	0.48
2:H:89:PHE:C	2:H:91:VAL:N	2.66	0.48
2:I:13:LYS:NZ	2:I:65:PHE:CB	2.77	0.48
2:L:32:LEU:HD12	2:L:32:LEU:O	2.14	0.48
2:M:3:ALA:N	2:M:77:LYS:HD3	2.29	0.48
1:A:270:LYS:HA	1:A:273:LYS:HB2	1.95	0.48
1:A:360:VAL:O	1:A:363:TYR:HB2	2.14	0.48
1:A:783:THR:HG22	1:A:784:GLU:N	2.28	0.48
1:B:179:LEU:O	1:B:183:SER:N	2.47	0.48
1:B:248:TYR:C	1:B:248:TYR:HD2	2.17	0.48
1:B:717:LYS:HB2	2:I:132:GLY:HA3	1.96	0.48
1:C:446:ILE:HD11	1:C:451:ASN:HB3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:504:ILE:CD1	1:C:504:ILE:N	2.76	0.48
1:D:122:GLU:O	1:D:122:GLU:HG2	2.14	0.48
1:D:214:PHE:CB	1:D:218:LEU:HB3	2.40	0.48
1:D:225:ILE:HG23	1:D:229:PHE:CE2	2.48	0.48
1:D:622:LYS:O	1:D:623:ASP:HB2	2.14	0.48
1:E:85:LEU:HD12	1:E:168:GLU:OE1	2.14	0.48
1:E:89:ILE:HD13	1:E:175:LYS:CE	2.34	0.48
1:F:754:GLU:CG	1:F:758:ASN:HD21	2.27	0.48
2:H:137:ASN:OD1	2:H:139:GLU:HB2	2.13	0.48
1:C:513:TRP:CH2	2:J:114:GLU:HB2	2.47	0.48
1:D:513:TRP:CZ2	2:K:114:GLU:HB2	2.48	0.48
2:M:65:PHE:HD1	2:M:66:PRO:CD	2.25	0.48
2:M:95:ASP:OD2	2:M:97:ASN:CG	2.51	0.48
1:A:107:THR:HG21	1:A:115:LYS:HE3	1.94	0.48
1:A:214:PHE:CE1	1:A:218:LEU:HD23	2.48	0.48
1:A:270:LYS:HA	1:A:273:LYS:CG	2.43	0.48
1:A:446:ILE:HD11	1:A:451:ASN:HB3	1.96	0.48
1:A:517:VAL:HG23	1:A:518:ASN:ND2	2.28	0.48
1:B:145:LYS:HD3	1:B:151:LYS:HD2	1.95	0.48
1:B:205:SER:C	1:B:207:ASP:H	2.17	0.48
1:B:364:ILE:HD13	1:B:364:ILE:N	2.29	0.48
1:D:389:LYS:CG	1:D:393:GLU:HG3	2.44	0.48
1:D:455:TYR:O	1:D:471:TRP:HA	2.13	0.48
1:D:561:ASN:C	1:D:563:ALA:N	2.66	0.48
1:E:214:PHE:CB	1:E:218:LEU:HB3	2.41	0.48
1:E:327:LEU:O	1:E:495:PHE:N	2.38	0.48
1:F:225:ILE:HG23	1:F:229:PHE:CE2	2.49	0.48
1:F:385:LEU:O	1:F:385:LEU:HD13	2.13	0.48
1:A:513:TRP:CH2	2:H:114:GLU:HB2	2.48	0.48
2:H:32:LEU:O	2:H:32:LEU:HD12	2.14	0.48
2:H:5:THR:HG22	2:H:8:GLN:HB2	1.96	0.48
2:L:101:SER:OG	2:L:104:GLU:OE1	2.32	0.48
1:F:513:TRP:CH2	2:M:114:GLU:HB2	2.49	0.48
1:A:264:MET:O	1:A:268:MET:HG2	2.14	0.47
1:A:403:LEU:HD22	1:A:474:ILE:HG21	1.96	0.47
1:B:165:GLN:CD	1:B:252:ASP:HB3	2.34	0.47
1:C:132:GLY:O	1:C:133:GLU:HB2	2.14	0.47
1:C:385:LEU:HD13	1:C:385:LEU:O	2.13	0.47
1:C:434:LEU:CD1	1:C:435:LEU:N	2.77	0.47
1:C:597:ASN:OD1	1:C:598:PRO:CD	2.62	0.47
1:C:742:ALA:HB1	1:C:744:GLU:CD	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:142:VAL:CG2	1:D:154:ILE:HD12	2.39	0.47
1:D:220:LEU:HG	1:D:223:LYS:HB2	1.95	0.47
1:D:325:TYR:C	1:D:326:ILE:HG13	2.34	0.47
1:D:446:ILE:HD11	1:D:451:ASN:HB3	1.96	0.47
1:D:684:ASP:O	1:D:686:ASP:N	2.47	0.47
1:E:205:SER:C	1:E:207:ASP:H	2.17	0.47
1:E:275:GLY:HA2	1:E:278:LYS:CD	2.44	0.47
1:E:275:GLY:O	1:E:278:LYS:HE2	2.14	0.47
1:E:324:THR:CG2	1:E:499:PRO:HA	2.44	0.47
1:F:389:LYS:CG	1:F:393:GLU:HG3	2.43	0.47
1:F:636:ALA:O	1:F:640:LYS:HA	2.14	0.47
2:J:65:PHE:HD1	2:J:66:PRO:CD	2.25	0.47
2:K:3:ALA:N	2:K:77:LYS:HD3	2.29	0.47
2:K:89:PHE:C	2:K:91:VAL:N	2.67	0.47
2:M:76:MET:HA	2:M:79:THR:HG22	1.96	0.47
1:A:179:LEU:O	1:A:183:SER:N	2.47	0.47
1:A:364:ILE:N	1:A:364:ILE:HD13	2.29	0.47
1:A:455:TYR:O	1:A:471:TRP:HA	2.13	0.47
1:A:520:PRO:CG	1:A:521:ASN:H	2.15	0.47
1:A:630:ARG:CD	2:H:83:GLU:HG2	2.44	0.47
1:A:652:ALA:HB1	2:H:99:TYR:HE1	1.79	0.47
1:B:220:LEU:HG	1:B:223:LYS:HB2	1.95	0.47
1:B:512:GLU:O	1:B:516:VAL:HG23	2.14	0.47
1:B:597:ASN:ND2	1:B:601:GLU:HG3	2.29	0.47
1:B:684:ASP:O	1:B:686:ASP:N	2.47	0.47
1:B:713:SER:O	1:B:716:LYS:N	2.40	0.47
1:B:776:LEU:HD23	1:B:776:LEU:C	2.34	0.47
1:C:116:GLU:O	1:C:117:LEU:HD22	2.14	0.47
1:C:324:THR:CG2	1:C:499:PRO:HA	2.43	0.47
1:C:657:ILE:HG21	1:C:704:TYR:CG	2.49	0.47
1:C:777:TYR:O	1:C:779:GLN:N	2.48	0.47
1:D:179:LEU:O	1:D:183:SER:N	2.47	0.47
1:D:248:TYR:C	1:D:248:TYR:CD2	2.87	0.47
1:D:318:ILE:CD1	1:D:318:ILE:H	2.12	0.47
1:D:360:VAL:HG11	1:D:370:LEU:CD2	2.38	0.47
1:D:512:GLU:O	1:D:516:VAL:HG23	2.15	0.47
1:E:270:LYS:HA	1:E:273:LYS:CG	2.44	0.47
1:E:736:LEU:HD21	1:E:750:GLN:OE1	2.14	0.47
1:F:270:LYS:HA	1:F:273:LYS:HB2	1.95	0.47
1:F:561:ASN:C	1:F:563:ALA:N	2.66	0.47
2:H:97:ASN:H	2:H:97:ASN:HD22	1.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:717:LYS:HB2	2:K:132:GLY:HA3	1.95	0.47
1:A:628:PHE:CE2	2:H:90:ARG:NH1	2.83	0.47
1:B:116:GLU:O	1:B:117:LEU:HD22	2.13	0.47
1:B:123:GLU:O	1:B:146:LYS:NZ	2.37	0.47
1:B:412:GLU:C	1:B:414:LYS:N	2.68	0.47
1:C:145:LYS:HD3	1:C:151:LYS:HD2	1.96	0.47
1:C:142:VAL:HG22	1:C:154:ILE:CG2	2.44	0.47
1:C:205:SER:C	1:C:207:ASP:H	2.17	0.47
1:C:721:SER:C	1:C:723:PHE:N	2.63	0.47
1:C:697:ILE:CG2	1:C:732:ILE:HD11	2.36	0.47
1:C:747:ASN:HD22	1:C:747:ASN:N	2.12	0.47
1:D:165:GLN:CD	1:D:252:ASP:HB3	2.34	0.47
1:D:318:ILE:O	1:D:319:ALA:C	2.53	0.47
1:D:395:GLU:OE1	1:D:395:GLU:N	2.47	0.47
1:D:562:GLU:O	1:D:562:GLU:HG3	2.13	0.47
1:D:345:THR:HG21	1:D:574:VAL:HG23	1.95	0.47
1:D:597:ASN:OD1	1:D:598:PRO:CD	2.63	0.47
1:D:732:ILE:HG23	1:D:749:PHE:HD1	1.79	0.47
1:D:776:LEU:C	1:D:776:LEU:HD23	2.35	0.47
1:E:107:THR:HG21	1:E:115:LYS:HE3	1.94	0.47
1:E:199:LEU:C	1:E:201:ASP:N	2.59	0.47
1:E:270:LYS:HA	1:E:273:LYS:HB2	1.95	0.47
1:E:504:ILE:CD1	1:E:504:ILE:N	2.77	0.47
1:E:710:HIS:C	1:E:712:PHE:N	2.67	0.47
1:F:355:SER:OG	1:F:371:SER:HA	2.15	0.47
2:L:97:ASN:N	2:L:97:ASN:ND2	2.62	0.47
1:A:248:TYR:C	1:A:248:TYR:CD2	2.88	0.47
1:A:254:ARG:NH1	1:A:254:ARG:HB3	2.18	0.47
1:A:275:GLY:HA2	1:A:278:LYS:CD	2.44	0.47
1:A:288:VAL:O	1:A:292:ARG:HG2	2.14	0.47
1:A:324:THR:CG2	1:A:499:PRO:HA	2.44	0.47
1:A:627:TYR:O	1:A:627:TYR:CD1	2.68	0.47
1:A:666:ASN:N	1:A:666:ASN:HD22	2.12	0.47
1:A:684:ASP:O	1:A:686:ASP:N	2.47	0.47
1:B:170:TYR:C	1:B:172:GLU:H	2.17	0.47
1:B:288:VAL:O	1:B:292:ARG:HG2	2.14	0.47
1:B:296:LEU:O	1:B:301:ALA:HB2	2.13	0.47
1:B:736:LEU:HD21	1:B:750:GLN:OE1	2.14	0.47
1:C:170:TYR:C	1:C:172:GLU:H	2.18	0.47
1:C:275:GLY:O	1:C:278:LYS:HE2	2.15	0.47
1:C:355:SER:OG	1:C:371:SER:HA	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:622:LYS:O	1:C:623:ASP:HB2	2.15	0.47
1:C:776:LEU:HD23	1:C:776:LEU:C	2.35	0.47
1:D:170:TYR:C	1:D:172:GLU:H	2.18	0.47
1:E:325:TYR:C	1:E:326:ILE:HG13	2.34	0.47
1:E:657:ILE:HB	1:E:759:GLN:HG2	1.95	0.47
1:E:723:PHE:O	1:E:724:ARG:C	2.53	0.47
1:F:170:TYR:C	1:F:172:GLU:H	2.17	0.47
1:F:288:VAL:HG12	1:F:292:ARG:NH2	2.29	0.47
1:F:360:VAL:O	1:F:363:TYR:HB2	2.14	0.47
1:F:486:LYS:HE3	1:F:570:THR:O	2.15	0.47
1:F:658:PRO:HG3	1:F:752:LEU:HD22	1.96	0.47
2:J:116:LEU:HD13	2:J:121:VAL:CG2	2.44	0.47
2:J:32:LEU:HD12	2:J:32:LEU:O	2.13	0.47
2:K:17:SER:O	2:K:18:LEU:C	2.53	0.47
2:M:127:GLU:HG2	2:M:127:GLU:O	2.14	0.47
1:A:165:GLN:CD	1:A:252:ASP:HB3	2.34	0.47
1:A:723:PHE:O	1:A:724:ARG:C	2.53	0.47
1:B:446:ILE:HD11	1:B:451:ASN:HB3	1.96	0.47
1:B:630:ARG:CD	2:I:83:GLU:HG2	2.44	0.47
1:D:504:ILE:CD1	1:D:504:ILE:N	2.77	0.47
1:D:530:THR:O	1:D:534:ILE:HG13	2.14	0.47
1:D:658:PRO:HG3	1:D:752:LEU:HD22	1.95	0.47
1:D:663:PHE:O	1:D:664:ILE:C	2.52	0.47
1:D:666:ASN:HD22	1:D:666:ASN:N	2.13	0.47
1:D:70:GLU:CB	1:D:107:THR:HA	2.44	0.47
1:D:777:TYR:O	1:D:779:GLN:N	2.48	0.47
1:E:622:LYS:O	1:E:623:ASP:HB2	2.15	0.47
1:E:717:LYS:HB2	2:L:132:GLY:HA3	1.95	0.47
1:F:205:SER:C	1:F:207:ASP:H	2.18	0.47
1:F:368:GLN:HA	1:F:368:GLN:OE1	2.15	0.47
1:F:500:SER:O	1:F:503:GLU:N	2.36	0.47
1:F:742:ALA:HB1	1:F:744:GLU:CD	2.34	0.47
1:F:736:LEU:HD21	1:F:750:GLN:OE1	2.14	0.47
1:F:764:LEU:O	1:F:766:HIS:N	2.48	0.47
2:H:101:SER:OG	2:H:104:GLU:OE1	2.31	0.47
2:I:110:THR:O	2:I:113:GLY:N	2.47	0.47
2:I:76:MET:HA	2:I:79:THR:HG22	1.96	0.47
2:J:105:LEU:HD21	2:J:124:MET:SD	2.53	0.47
1:C:513:TRP:CZ2	2:J:114:GLU:HB2	2.50	0.47
2:K:76:MET:HA	2:K:79:THR:HG22	1.97	0.47
2:L:24:ASP:OD1	2:L:25:GLY:N	2.37	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:65:PHE:HD1	2:L:66:PRO:CD	2.25	0.47
1:A:220:LEU:HG	1:A:223:LYS:HB2	1.95	0.47
1:A:504:ILE:N	1:A:504:ILE:CD1	2.77	0.47
1:A:345:THR:HG21	1:A:574:VAL:HG23	1.95	0.47
1:A:747:ASN:N	1:A:747:ASN:HD22	2.13	0.47
1:A:732:ILE:HG23	1:A:749:PHE:HD1	1.80	0.47
1:A:736:LEU:HD21	1:A:750:GLN:OE1	2.15	0.47
1:A:777:TYR:O	1:A:779:GLN:N	2.48	0.47
1:B:355:SER:OG	1:B:371:SER:HA	2.14	0.47
1:B:663:PHE:O	1:B:664:ILE:C	2.52	0.47
1:B:679:TYR:CE2	1:B:691:LYS:HG3	2.49	0.47
1:B:755:ARG:O	1:B:756:ILE:C	2.52	0.47
1:B:77:ASP:O	1:B:81:GLN:CB	2.60	0.47
1:C:70:GLU:CB	1:C:107:THR:HA	2.43	0.47
1:C:122:GLU:O	1:C:122:GLU:HG2	2.15	0.47
1:C:530:THR:CG2	2:J:88:ALA:HB1	2.45	0.47
1:C:666:ASN:N	1:C:666:ASN:HD22	2.13	0.47
1:D:270:LYS:HA	1:D:273:LYS:CG	2.45	0.47
1:E:179:LEU:O	1:E:183:SER:N	2.46	0.47
1:E:446:ILE:HD11	1:E:451:ASN:HB3	1.96	0.47
1:E:567:THR:CG2	1:E:568:GLY:N	2.55	0.47
1:F:105:TYR:CB	1:F:153:ILE:HG12	2.25	0.47
1:F:179:LEU:O	1:F:183:SER:N	2.47	0.47
1:F:275:GLY:O	1:F:278:LYS:HE2	2.15	0.47
1:F:500:SER:O	1:F:501:LEU:C	2.51	0.47
1:F:587:PRO:HD2	1:F:639:ASN:HD21	1.79	0.47
2:J:76:MET:HA	2:J:79:THR:HG22	1.97	0.47
2:K:117:THR:C	2:K:119:GLU:N	2.66	0.47
2:K:12:PHE:HE1	2:K:72:MET:CG	2.27	0.47
2:L:76:MET:HA	2:L:79:THR:HG22	1.97	0.47
2:M:65:PHE:N	2:M:65:PHE:CD1	2.70	0.47
1:A:102:GLY:C	1:A:103:GLU:HG3	2.35	0.47
1:A:170:TYR:C	1:A:172:GLU:H	2.17	0.47
1:A:562:GLU:O	1:A:562:GLU:HG3	2.12	0.47
1:A:776:LEU:C	1:A:776:LEU:HD23	2.34	0.47
1:B:173:ILE:C	1:B:175:LYS:N	2.65	0.47
1:B:254:ARG:HB3	1:B:254:ARG:NH1	2.18	0.47
1:B:270:LYS:HA	1:B:273:LYS:CG	2.45	0.47
1:B:318:ILE:O	1:B:319:ALA:C	2.53	0.47
1:B:360:VAL:O	1:B:363:TYR:HB2	2.14	0.47
1:C:325:TYR:C	1:C:326:ILE:HG13	2.34	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:217:LYS:HZ1	1:D:233:ASN:HB3	1.80	0.47
1:D:755:ARG:O	1:D:756:ILE:C	2.52	0.47
1:E:264:MET:O	1:E:268:MET:HG2	2.14	0.47
1:E:446:ILE:HG13	1:E:452:GLU:O	2.15	0.47
1:E:557:LEU:HD11	1:E:577:HIS:O	2.15	0.47
1:F:305:SER:C	1:F:307:LEU:H	2.18	0.47
1:F:597:ASN:OD1	1:F:598:PRO:CD	2.63	0.47
1:F:715:GLU:HA	1:F:718:ARG:CZ	2.43	0.47
1:F:717:LYS:HB2	2:M:132:GLY:HA3	1.96	0.47
2:I:36:MET:HE1	2:I:43:PRO:HG3	1.94	0.47
2:K:32:LEU:HD12	2:K:32:LEU:O	2.15	0.47
1:A:718:ARG:NH1	1:A:767:GLN:NE2	2.59	0.47
1:B:504:ILE:N	1:B:504:ILE:CD1	2.78	0.47
1:B:716:LYS:HG3	1:B:717:LYS:N	2.30	0.47
1:C:170:TYR:O	1:C:174:GLY:N	2.48	0.47
1:C:345:THR:HG21	1:C:574:VAL:HG23	1.96	0.47
1:C:658:PRO:HG3	1:C:752:LEU:HD22	1.96	0.47
1:C:717:LYS:HB2	2:J:132:GLY:HA3	1.96	0.47
1:C:723:PHE:O	1:C:724:ARG:C	2.53	0.47
1:D:100:LEU:HD11	1:D:182:ILE:CG2	2.41	0.47
1:D:192:PHE:HA	1:D:195:LEU:CB	2.45	0.47
1:D:378:LEU:O	1:D:382:LYS:N	2.47	0.47
1:D:679:TYR:CE2	1:D:691:LYS:HG3	2.50	0.47
1:E:142:VAL:CG2	1:E:154:ILE:HD12	2.38	0.47
1:E:288:VAL:HG12	1:E:292:ARG:NH2	2.30	0.47
1:E:636:ALA:O	1:E:640:LYS:HA	2.14	0.47
1:E:776:LEU:HD23	1:E:776:LEU:C	2.35	0.47
1:F:112:VAL:C	1:F:114:HIS:N	2.65	0.47
1:F:115:LYS:HZ3	1:F:116:GLU:CG	2.24	0.47
1:F:123:GLU:O	1:F:146:LYS:NZ	2.37	0.47
1:F:145:LYS:HD3	1:F:151:LYS:HD2	1.95	0.47
1:F:288:VAL:O	1:F:292:ARG:HG2	2.14	0.47
2:H:97:ASN:O	2:H:99:TYR:HD1	1.98	0.47
2:I:63:ILE:CG1	2:I:67:GLU:HB3	2.30	0.47
2:I:83:GLU:O	2:I:84:GLU:C	2.53	0.47
2:J:127:GLU:HG2	2:J:127:GLU:O	2.15	0.47
2:J:97:ASN:H	2:J:97:ASN:HD22	1.61	0.47
2:L:117:THR:C	2:L:119:GLU:N	2.66	0.47
1:A:170:TYR:O	1:A:174:GLY:N	2.48	0.47
1:A:622:LYS:O	1:A:623:ASP:HB2	2.15	0.47
1:A:679:TYR:CE2	1:A:691:LYS:HG3	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:122:GLU:HG2	1:B:122:GLU:O	2.14	0.47
1:B:395:GLU:OE1	1:B:395:GLU:N	2.45	0.47
1:B:597:ASN:OD1	1:B:598:PRO:CD	2.63	0.47
1:C:184:LYS:HE3	1:C:191:GLU:CB	2.45	0.47
1:C:248:TYR:C	1:C:248:TYR:CD2	2.88	0.47
1:C:275:GLY:HA2	1:C:278:LYS:CD	2.44	0.47
1:C:533:LEU:HD13	1:C:533:LEU:O	2.15	0.47
1:C:89:ILE:HD13	1:C:175:LYS:CE	2.33	0.47
1:D:275:GLY:O	1:D:278:LYS:HE2	2.15	0.47
1:D:736:LEU:HD21	1:D:750:GLN:OE1	2.14	0.47
1:E:122:GLU:HG2	1:E:122:GLU:O	2.14	0.47
1:E:145:LYS:HD3	1:E:151:LYS:HD2	1.95	0.47
1:E:170:TYR:O	1:E:174:GLY:N	2.47	0.47
1:E:284:LYS:HA	1:E:284:LYS:HE3	1.96	0.47
1:E:377:GLN:O	1:E:381:GLU:HB2	2.15	0.47
1:F:131:ARG:HG3	1:F:243:LEU:CD2	2.45	0.47
1:F:173:ILE:C	1:F:175:LYS:N	2.65	0.47
1:F:270:LYS:HA	1:F:273:LYS:CG	2.44	0.47
1:F:275:GLY:HA2	1:F:278:LYS:CD	2.44	0.47
1:F:318:ILE:O	1:F:319:ALA:C	2.52	0.47
1:F:493:ASP:OD2	1:F:577:HIS:NE2	2.48	0.47
1:F:657:ILE:HB	1:F:759:GLN:HG2	1.95	0.47
2:H:13:LYS:NZ	2:H:65:PHE:CB	2.78	0.47
2:J:83:GLU:O	2:J:84:GLU:C	2.53	0.47
2:K:5:THR:HG22	2:K:8:GLN:HB2	1.96	0.47
1:E:513:TRP:CZ2	2:L:114:GLU:HB2	2.50	0.47
2:L:83:GLU:O	2:L:84:GLU:C	2.53	0.47
2:M:32:LEU:HD12	2:M:32:LEU:O	2.14	0.47
1:A:557:LEU:HD11	1:A:577:HIS:O	2.15	0.47
1:B:747:ASN:HD22	1:B:747:ASN:N	2.12	0.47
1:C:281:GLU:O	1:C:285:LYS:HG2	2.14	0.47
1:C:632:TYR:CE2	1:C:643:ILE:HG21	2.50	0.47
1:C:684:ASP:O	1:C:686:ASP:N	2.48	0.47
1:D:360:VAL:O	1:D:363:TYR:HB2	2.15	0.47
1:E:318:ILE:O	1:E:319:ALA:C	2.52	0.47
1:E:486:LYS:HE3	1:E:570:THR:O	2.15	0.47
1:E:627:TYR:CD1	1:E:627:TYR:O	2.68	0.47
1:F:184:LYS:CE	1:F:193:LEU:HD12	2.37	0.47
1:F:533:LEU:HD13	1:F:533:LEU:O	2.15	0.47
1:F:777:TYR:O	1:F:779:GLN:N	2.47	0.47
2:I:12:PHE:HE1	2:I:72:MET:CG	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:534:ILE:HG21	2:I:84:GLU:HB3	1.97	0.47
1:D:530:THR:CG2	2:K:88:ALA:HB1	2.45	0.47
2:L:97:ASN:O	2:L:99:TYR:HD1	1.98	0.47
1:A:160:ALA:O	1:A:161:ILE:CG1	2.61	0.47
1:A:381:GLU:C	1:A:383:GLY:N	2.68	0.47
1:A:495:PHE:O	1:A:495:PHE:CD1	2.67	0.47
1:A:513:TRP:CZ2	2:H:114:GLU:HB2	2.50	0.47
1:A:518:ASN:HD22	1:A:518:ASN:N	2.13	0.47
1:A:554:LYS:O	1:A:555:GLN:C	2.54	0.47
1:A:597:ASN:OD1	1:A:598:PRO:CD	2.63	0.47
1:B:142:VAL:HG22	1:B:154:ILE:CG2	2.43	0.47
1:B:248:TYR:C	1:B:248:TYR:CD2	2.88	0.47
1:B:561:ASN:C	1:B:563:ALA:H	2.19	0.47
1:B:71:PHE:CD1	1:B:73:ASN:HB2	2.50	0.47
1:B:777:TYR:O	1:B:779:GLN:N	2.48	0.47
1:C:437:SER:O	1:C:439:ASN:N	2.48	0.47
1:D:116:GLU:O	1:D:117:LEU:HD22	2.14	0.47
1:D:377:GLN:O	1:D:381:GLU:HB2	2.15	0.47
1:D:764:LEU:O	1:D:766:HIS:N	2.48	0.47
1:E:112:VAL:C	1:E:114:HIS:N	2.65	0.47
1:E:214:PHE:CE1	1:E:218:LEU:HD23	2.49	0.47
1:E:305:SER:C	1:E:307:LEU:H	2.18	0.47
1:E:355:SER:OG	1:E:371:SER:HA	2.15	0.47
1:E:437:SER:O	1:E:439:ASN:N	2.48	0.47
1:E:716:LYS:HG3	1:E:717:LYS:N	2.30	0.47
1:E:764:LEU:C	1:E:766:HIS:N	2.68	0.47
1:F:132:GLY:O	1:F:133:GLU:HB2	2.15	0.47
1:F:142:VAL:HG22	1:F:154:ILE:CG2	2.42	0.47
1:F:520:PRO:CG	1:F:521:ASN:N	2.78	0.47
1:F:583:ASN:ND2	1:F:586:PHE:O	2.46	0.47
1:F:747:ASN:N	1:F:747:ASN:HD22	2.13	0.47
1:F:776:LEU:HD23	1:F:776:LEU:C	2.35	0.47
2:H:3:ALA:N	2:H:77:LYS:HD3	2.29	0.47
2:H:76:MET:HA	2:H:79:THR:HG22	1.97	0.47
2:J:97:ASN:O	2:J:99:TYR:HD1	1.98	0.47
1:D:709:ASN:CB	2:K:130:ILE:HG23	2.41	0.47
2:L:16:PHE:HE1	2:L:27:ILE:CG1	2.28	0.47
1:A:132:GLY:O	1:A:133:GLU:HB2	2.16	0.46
1:A:512:GLU:O	1:A:516:VAL:HG23	2.15	0.46
1:B:305:SER:C	1:B:307:LEU:H	2.19	0.46
1:B:559:ARG:HG3	1:B:559:ARG:HH11	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:540:ARG:NH1	1:B:627:TYR:CE1	2.83	0.46
1:B:660:SER:HB2	1:B:702:SER:HB2	1.96	0.46
1:B:732:ILE:HG23	1:B:749:PHE:HD1	1.80	0.46
1:B:85:LEU:HD12	1:B:168:GLU:OE1	2.16	0.46
1:C:179:LEU:O	1:C:183:SER:N	2.48	0.46
1:C:607:ASN:C	1:C:609:GLU:H	2.19	0.46
1:C:736:LEU:HD21	1:C:750:GLN:OE1	2.14	0.46
1:D:170:TYR:O	1:D:174:GLY:N	2.47	0.46
1:D:518:ASN:N	1:D:518:ASN:HD22	2.13	0.46
1:E:197:LYS:HB3	1:E:197:LYS:HZ2	1.79	0.46
1:E:77:ASP:O	1:E:81:GLN:CB	2.60	0.46
2:I:37:ARG:CG	2:I:37:ARG:HH11	2.22	0.46
2:I:89:PHE:O	2:I:91:VAL:N	2.48	0.46
2:I:5:THR:HG22	2:I:8:GLN:HB2	1.97	0.46
2:L:110:THR:O	2:L:113:GLY:N	2.46	0.46
1:A:305:SER:C	1:A:307:LEU:H	2.18	0.46
1:A:530:THR:O	1:A:534:ILE:HG13	2.15	0.46
1:A:660:SER:HB2	1:A:702:SER:HB2	1.97	0.46
1:B:218:LEU:CD1	1:B:225:ILE:HD11	2.46	0.46
1:B:275:GLY:HA2	1:B:278:LYS:CD	2.45	0.46
1:B:279:ILE:HG22	1:B:283:LEU:CD1	2.45	0.46
1:B:622:LYS:O	1:B:623:ASP:HB2	2.16	0.46
1:B:792:VAL:HG12	1:B:796:ILE:CD1	2.42	0.46
1:C:710:HIS:C	1:C:712:PHE:N	2.67	0.46
1:C:71:PHE:CD1	1:C:73:ASN:HB2	2.50	0.46
1:D:279:ILE:O	1:D:283:LEU:HB2	2.16	0.46
1:D:403:LEU:HD22	1:D:474:ILE:HG21	1.96	0.46
1:D:710:HIS:C	1:D:712:PHE:N	2.67	0.46
1:E:395:GLU:N	1:E:395:GLU:OE1	2.46	0.46
1:E:607:ASN:C	1:E:609:GLU:H	2.19	0.46
1:F:446:ILE:HG13	1:F:452:GLU:O	2.15	0.46
2:J:16:PHE:HE1	2:J:27:ILE:CG1	2.29	0.46
1:D:530:THR:HG21	2:K:145:MET:HE3	1.97	0.46
2:L:89:PHE:O	2:L:91:VAL:N	2.49	0.46
1:A:122:GLU:O	1:A:122:GLU:HG2	2.14	0.46
1:A:284:LYS:HE3	1:A:284:LYS:HA	1.97	0.46
1:A:318:ILE:O	1:A:319:ALA:C	2.53	0.46
1:A:377:GLN:O	1:A:381:GLU:HB2	2.15	0.46
1:A:413:LEU:HB2	1:A:419:ILE:CG1	2.45	0.46
1:A:437:SER:O	1:A:439:ASN:N	2.48	0.46
1:A:446:ILE:HB	1:A:453:VAL:HG22	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:636:ALA:O	1:A:640:LYS:HA	2.15	0.46
1:A:682:SER:OG	1:A:683:GLY:N	2.47	0.46
1:B:248:TYR:HE1	1:B:269:ASN:CA	2.28	0.46
1:B:284:LYS:HE3	1:B:284:LYS:HA	1.97	0.46
1:B:413:LEU:HB2	1:B:419:ILE:CG1	2.45	0.46
1:B:434:LEU:HD13	1:B:434:LEU:C	2.35	0.46
1:B:659:THR:HG22	1:B:660:SER:H	1.81	0.46
1:B:757:THR:O	1:B:758:ASN:C	2.54	0.46
1:C:279:ILE:O	1:C:283:LEU:HB2	2.16	0.46
1:C:403:LEU:HD22	1:C:474:ILE:HG21	1.95	0.46
1:C:627:TYR:CD1	1:C:627:TYR:O	2.69	0.46
1:C:663:PHE:O	1:C:664:ILE:C	2.52	0.46
1:D:355:SER:OG	1:D:371:SER:HA	2.15	0.46
1:D:559:ARG:HD2	1:D:562:GLU:OE2	2.16	0.46
1:D:690:LYS:HZ3	1:D:741:ILE:HG23	1.81	0.46
1:E:540:ARG:NH1	1:E:627:TYR:CE1	2.82	0.46
1:E:663:PHE:O	1:E:664:ILE:C	2.53	0.46
1:E:732:ILE:HG23	1:E:749:PHE:HD1	1.80	0.46
2:I:16:PHE:HE1	2:I:27:ILE:CG1	2.28	0.46
2:J:143:GLN:HB3	2:J:143:GLN:HE21	1.53	0.46
2:J:89:PHE:O	2:J:91:VAL:N	2.48	0.46
2:K:16:PHE:HE1	2:K:27:ILE:CG1	2.29	0.46
2:K:65:PHE:HD1	2:K:66:PRO:CD	2.26	0.46
2:K:63:ILE:CG1	2:K:67:GLU:HB3	2.29	0.46
2:L:75:LYS:O	2:L:76:MET:HB2	2.16	0.46
1:A:248:TYR:HE1	1:A:269:ASN:CA	2.29	0.46
1:A:716:LYS:HG3	1:A:717:LYS:N	2.31	0.46
1:A:99:GLU:C	1:A:101:GLY:N	2.68	0.46
1:B:288:VAL:HG12	1:B:292:ARG:NH2	2.30	0.46
1:B:443:GLU:HG3	1:B:458:LYS:CG	2.43	0.46
1:B:530:THR:O	1:B:534:ILE:HG13	2.16	0.46
1:B:554:LYS:O	1:B:555:GLN:C	2.53	0.46
1:B:636:ALA:O	1:B:640:LYS:HA	2.15	0.46
1:B:694:VAL:C	1:B:696:LYS:N	2.69	0.46
1:C:190:PRO:O	1:C:191:GLU:C	2.53	0.46
1:C:305:SER:C	1:C:307:LEU:H	2.18	0.46
1:D:715:GLU:HA	1:D:718:ARG:CZ	2.43	0.46
1:E:102:GLY:C	1:E:103:GLU:HG3	2.35	0.46
1:E:288:VAL:O	1:E:292:ARG:HG2	2.14	0.46
1:E:441:VAL:HG12	1:E:441:VAL:O	2.16	0.46
1:E:493:ASP:OD2	1:E:577:HIS:NE2	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:679:TYR:CE2	1:E:691:LYS:HG3	2.50	0.46
1:E:99:GLU:C	1:E:101:GLY:N	2.68	0.46
1:F:170:TYR:C	1:F:172:GLU:N	2.69	0.46
1:F:346:LYS:HG2	1:F:346:LYS:O	2.16	0.46
1:F:437:SER:O	1:F:439:ASN:N	2.48	0.46
1:F:659:THR:HG22	1:F:660:SER:H	1.81	0.46
1:F:732:ILE:HG23	1:F:749:PHE:HD1	1.80	0.46
1:F:77:ASP:O	1:F:81:GLN:CB	2.60	0.46
2:H:75:LYS:O	2:H:76:MET:HB2	2.15	0.46
1:C:668:SER:CA	2:J:14:GLU:HG3	2.40	0.46
2:J:30:LYS:CD	2:J:30:LYS:H	2.21	0.46
2:L:63:ILE:CG1	2:L:67:GLU:HB3	2.29	0.46
2:M:110:THR:O	2:M:113:GLY:N	2.48	0.46
1:F:513:TRP:CZ2	2:M:114:GLU:HB2	2.51	0.46
2:M:17:SER:O	2:M:18:LEU:C	2.54	0.46
2:M:38:SER:C	2:M:40:GLY:H	2.19	0.46
2:M:97:ASN:O	2:M:99:TYR:HD1	1.97	0.46
1:A:279:ILE:HG22	1:A:283:LEU:CD1	2.45	0.46
1:A:412:GLU:C	1:A:414:LYS:N	2.68	0.46
1:A:710:HIS:C	1:A:712:PHE:N	2.68	0.46
1:A:71:PHE:CD1	1:A:73:ASN:HB2	2.50	0.46
1:B:170:TYR:C	1:B:172:GLU:N	2.69	0.46
1:B:270:LYS:HA	1:B:273:LYS:HB2	1.96	0.46
1:B:275:GLY:O	1:B:278:LYS:HE2	2.15	0.46
1:B:327:LEU:O	1:B:495:PHE:N	2.39	0.46
1:B:70:GLU:CB	1:B:107:THR:HA	2.44	0.46
1:B:99:GLU:C	1:B:101:GLY:N	2.69	0.46
1:C:360:VAL:O	1:C:363:TYR:HB2	2.15	0.46
1:C:378:LEU:O	1:C:382:LYS:N	2.47	0.46
1:C:512:GLU:O	1:C:516:VAL:HG23	2.14	0.46
1:C:694:VAL:C	1:C:696:LYS:N	2.69	0.46
1:D:248:TYR:HE1	1:D:269:ASN:CA	2.28	0.46
1:D:275:GLY:HA2	1:D:278:LYS:CD	2.46	0.46
1:D:279:ILE:HG22	1:D:283:LEU:CD1	2.45	0.46
1:D:434:LEU:CD1	1:D:435:LEU:N	2.71	0.46
1:E:170:TYR:C	1:E:172:GLU:H	2.17	0.46
1:E:197:LYS:CB	1:E:197:LYS:HZ2	2.28	0.46
1:E:431:LYS:O	1:E:432:TYR:CD2	2.68	0.46
1:E:561:ASN:C	1:E:563:ALA:H	2.18	0.46
1:E:557:LEU:CD2	1:E:575:VAL:HG12	2.44	0.46
1:E:652:ALA:HB1	2:L:99:TYR:HE1	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:761:GLN:HA	1:E:761:GLN:OE1	2.15	0.46
1:F:122:GLU:HG2	1:F:122:GLU:O	2.14	0.46
1:F:160:ALA:O	1:F:161:ILE:CG1	2.61	0.46
1:F:279:ILE:O	1:F:283:LEU:HB2	2.16	0.46
2:K:83:GLU:O	2:K:84:GLU:C	2.53	0.46
2:L:12:PHE:HE1	2:L:72:MET:CG	2.26	0.46
2:L:38:SER:C	2:L:40:GLY:H	2.19	0.46
2:M:89:PHE:O	2:M:91:VAL:N	2.49	0.46
1:B:387:ASN:HD22	1:B:387:ASN:N	2.14	0.46
1:B:632:TYR:CE2	1:B:643:ILE:HG21	2.50	0.46
1:C:630:ARG:CD	2:J:83:GLU:HG2	2.46	0.46
1:C:732:ILE:HG23	1:C:749:PHE:HD1	1.80	0.46
1:C:764:LEU:O	1:C:766:HIS:N	2.48	0.46
1:D:218:LEU:CD1	1:D:225:ILE:HD11	2.46	0.46
1:D:652:ALA:HB1	2:K:99:TYR:HE1	1.81	0.46
1:E:732:ILE:C	1:E:734:ASN:N	2.69	0.46
1:E:777:TYR:O	1:E:779:GLN:N	2.48	0.46
1:F:102:GLY:C	1:F:103:GLU:HG3	2.36	0.46
1:F:444:PHE:CD1	1:F:444:PHE:N	2.84	0.46
2:I:13:LYS:HA	2:I:16:PHE:HB3	1.98	0.46
1:B:628:PHE:CE2	2:I:90:ARG:NH1	2.84	0.46
2:J:13:LYS:HA	2:J:16:PHE:HB3	1.98	0.46
2:L:13:LYS:HA	2:L:16:PHE:HB3	1.98	0.46
2:M:13:LYS:NZ	2:M:65:PHE:CB	2.78	0.46
2:M:16:PHE:HE1	2:M:27:ILE:CG1	2.29	0.46
2:M:30:LYS:H	2:M:30:LYS:CD	2.21	0.46
2:M:83:GLU:O	2:M:84:GLU:C	2.52	0.46
1:A:192:PHE:HA	1:A:195:LEU:CB	2.46	0.46
1:A:378:LEU:O	1:A:382:LYS:N	2.47	0.46
1:A:626:TYR:CD2	1:A:626:TYR:C	2.89	0.46
1:A:653:LYS:O	1:A:655:ASN:N	2.49	0.46
1:A:761:GLN:OE1	1:A:761:GLN:HA	2.15	0.46
1:B:142:VAL:CG2	1:B:154:ILE:HD12	2.38	0.46
1:B:131:ARG:HG3	1:B:243:LEU:CD2	2.44	0.46
1:B:377:GLN:O	1:B:381:GLU:HB2	2.15	0.46
1:B:493:ASP:OD2	1:B:577:HIS:NE2	2.49	0.46
1:B:97:TYR:C	1:B:99:GLU:N	2.69	0.46
1:C:154:ILE:HG22	1:C:155:ASN:H	1.81	0.46
1:C:370:LEU:HD11	1:C:455:TYR:CE1	2.51	0.46
1:C:377:GLN:O	1:C:381:GLU:HB2	2.15	0.46
1:C:412:GLU:C	1:C:414:LYS:N	2.68	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:557:LEU:HD11	1:C:577:HIS:O	2.16	0.46
1:C:679:TYR:CE2	1:C:691:LYS:HG3	2.50	0.46
1:D:305:SER:C	1:D:307:LEU:H	2.18	0.46
1:D:554:LYS:O	1:D:555:GLN:C	2.54	0.46
1:E:132:GLY:O	1:E:133:GLU:HB2	2.16	0.46
1:E:170:TYR:C	1:E:172:GLU:N	2.69	0.46
1:E:381:GLU:C	1:E:383:GLY:N	2.69	0.46
1:E:389:LYS:C	1:E:391:ILE:N	2.69	0.46
1:E:444:PHE:CD1	1:E:444:PHE:N	2.84	0.46
1:F:373:LYS:O	1:F:380:VAL:HG22	2.16	0.46
1:F:71:PHE:CD1	1:F:73:ASN:HB2	2.50	0.46
2:H:73:ALA:C	2:H:75:LYS:N	2.69	0.46
1:A:530:THR:CG2	2:H:88:ALA:HB1	2.45	0.46
2:J:136:VAL:HG23	2:J:136:VAL:O	2.16	0.46
2:K:97:ASN:O	2:K:99:TYR:HD1	1.99	0.46
1:A:70:GLU:CB	1:A:107:THR:HA	2.44	0.46
1:A:116:GLU:O	1:A:117:LEU:HD22	2.15	0.46
1:A:205:SER:C	1:A:207:ASP:H	2.18	0.46
1:A:355:SER:OG	1:A:371:SER:HA	2.15	0.46
1:A:615:ILE:HD12	1:A:645:TRP:CH2	2.48	0.46
1:A:697:ILE:CG2	1:A:732:ILE:HD11	2.38	0.46
1:A:757:THR:O	1:A:758:ASN:C	2.55	0.46
1:B:100:LEU:HD11	1:B:182:ILE:CG2	2.43	0.46
1:B:630:ARG:HD2	2:I:83:GLU:HG2	1.98	0.46
1:C:102:GLY:C	1:C:103:GLU:HG3	2.36	0.46
1:C:99:GLU:C	1:C:101:GLY:N	2.69	0.46
1:D:437:SER:O	1:D:439:ASN:N	2.48	0.46
1:D:486:LYS:HE3	1:D:570:THR:O	2.16	0.46
1:D:561:ASN:C	1:D:563:ALA:H	2.19	0.46
1:E:153:ILE:C	1:E:154:ILE:HD13	2.33	0.46
1:E:173:ILE:HG23	1:E:174:GLY:N	2.31	0.46
1:E:412:GLU:C	1:E:414:LYS:N	2.68	0.46
1:E:607:ASN:C	1:E:609:GLU:N	2.69	0.46
1:E:83:GLN:C	1:E:85:LEU:N	2.70	0.46
1:F:279:ILE:HG22	1:F:283:LEU:CD1	2.46	0.46
1:F:671:ARG:O	1:F:674:SER:O	2.34	0.46
1:F:716:LYS:HG3	1:F:717:LYS:N	2.30	0.46
1:F:723:PHE:O	1:F:724:ARG:C	2.54	0.46
2:H:17:SER:O	2:H:18:LEU:C	2.54	0.46
1:C:530:THR:HG21	2:J:145:MET:HE3	1.97	0.46
2:K:13:LYS:HA	2:K:16:PHE:HB3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:5:THR:HG22	2:L:8:GLN:HB2	1.97	0.46
2:M:143:GLN:HE21	2:M:143:GLN:HB3	1.54	0.46
2:M:75:LYS:O	2:M:76:MET:HB2	2.15	0.46
1:A:218:LEU:CD1	1:A:225:ILE:HD11	2.46	0.46
1:A:94:LEU:O	1:A:98:SER:N	2.44	0.46
1:B:102:GLY:C	1:B:103:GLU:HG3	2.36	0.46
1:B:112:VAL:HG12	1:B:113:GLU:N	2.23	0.46
1:B:437:SER:O	1:B:439:ASN:N	2.48	0.46
1:B:765:THR:HG22	1:B:769:SER:OG	2.16	0.46
1:C:170:TYR:C	1:C:172:GLU:N	2.69	0.46
1:C:346:LYS:O	1:C:346:LYS:HG2	2.16	0.46
1:C:626:TYR:CD2	1:C:626:TYR:C	2.89	0.46
1:C:629:ASN:C	1:C:629:ASN:HD22	2.16	0.46
1:D:368:GLN:HA	1:D:368:GLN:OE1	2.16	0.46
1:D:660:SER:HB2	1:D:702:SER:HB2	1.97	0.46
1:D:697:ILE:CG2	1:D:732:ILE:HD11	2.36	0.46
1:D:71:PHE:CD1	1:D:73:ASN:HB2	2.51	0.46
1:E:192:PHE:HA	1:E:195:LEU:CB	2.46	0.46
1:E:346:LYS:HG2	1:E:346:LYS:O	2.16	0.46
1:E:413:LEU:HB2	1:E:419:ILE:CG1	2.45	0.46
1:E:520:PRO:CG	1:E:521:ASN:N	2.79	0.46
1:E:730:ASN:O	1:E:732:ILE:N	2.49	0.46
1:F:248:TYR:HE1	1:F:269:ASN:CA	2.29	0.46
1:F:403:LEU:HD22	1:F:474:ILE:HG21	1.97	0.46
1:F:557:LEU:HD23	1:F:557:LEU:O	2.16	0.46
1:F:99:GLU:C	1:F:101:GLY:N	2.69	0.46
2:I:127:GLU:O	2:I:127:GLU:HG2	2.15	0.46
2:I:75:LYS:O	2:I:76:MET:HB2	2.16	0.46
2:J:17:SER:O	2:J:18:LEU:C	2.54	0.46
2:K:75:LYS:O	2:K:76:MET:HB2	2.15	0.46
2:M:13:LYS:HA	2:M:16:PHE:HB3	1.98	0.46
1:A:142:VAL:CG2	1:A:154:ILE:HD12	2.39	0.46
1:A:175:LYS:O	1:A:176:GLY:C	2.55	0.46
1:A:275:GLY:O	1:A:278:LYS:HE2	2.15	0.46
1:A:279:ILE:O	1:A:283:LEU:HB2	2.16	0.46
1:A:493:ASP:OD2	1:A:577:HIS:NE2	2.48	0.46
1:A:663:PHE:O	1:A:664:ILE:C	2.53	0.46
1:B:189:ASP:C	1:B:191:GLU:N	2.59	0.46
1:B:368:GLN:HA	1:B:368:GLN:OE1	2.14	0.46
1:B:397:GLU:O	1:B:480:ASN:N	2.49	0.46
1:B:627:TYR:CD1	1:B:627:TYR:O	2.69	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:635:ILE:CD1	1:B:635:ILE:H	2.08	0.46
1:B:710:HIS:C	1:B:712:PHE:N	2.66	0.46
1:C:192:PHE:HA	1:C:195:LEU:CB	2.46	0.46
1:C:413:LEU:HB2	1:C:419:ILE:CG1	2.45	0.46
1:C:504:ILE:H	1:C:504:ILE:CD1	2.29	0.46
1:C:97:TYR:C	1:C:99:GLU:N	2.69	0.46
1:D:192:PHE:HA	1:D:195:LEU:HB2	1.98	0.46
1:D:444:PHE:N	1:D:444:PHE:CD1	2.84	0.46
1:D:446:ILE:HG13	1:D:452:GLU:O	2.15	0.46
1:E:112:VAL:HG12	1:E:113:GLU:N	2.22	0.46
1:E:626:TYR:C	1:E:626:TYR:CD2	2.90	0.46
1:F:112:VAL:HG12	1:F:113:GLU:N	2.23	0.46
1:F:370:LEU:HD11	1:F:455:TYR:CE1	2.51	0.46
1:F:97:TYR:C	1:F:99:GLU:N	2.69	0.46
2:I:73:ALA:C	2:I:75:LYS:N	2.69	0.46
2:I:97:ASN:O	2:I:99:TYR:HD1	1.99	0.46
1:F:709:ASN:CB	2:M:130:ILE:HG23	2.41	0.46
2:M:5:THR:O	2:M:8:GLN:HB3	2.16	0.46
1:A:346:LYS:O	1:A:346:LYS:HG2	2.16	0.45
1:A:486:LYS:HE3	1:A:570:THR:O	2.16	0.45
1:A:730:ASN:O	1:A:732:ILE:N	2.50	0.45
1:B:666:ASN:N	1:B:666:ASN:HD22	2.13	0.45
1:C:338:LEU:O	1:C:341:SER:HB3	2.17	0.45
1:C:368:GLN:OE1	1:C:368:GLN:HA	2.16	0.45
1:C:493:ASP:OD2	1:C:577:HIS:NE2	2.49	0.45
1:D:154:ILE:HG22	1:D:155:ASN:H	1.81	0.45
1:D:175:LYS:O	1:D:176:GLY:C	2.55	0.45
1:D:761:GLN:HA	1:D:761:GLN:OE1	2.15	0.45
1:E:70:GLU:CB	1:E:107:THR:HA	2.44	0.45
1:E:173:ILE:C	1:E:175:LYS:N	2.64	0.45
1:E:518:ASN:N	1:E:518:ASN:HD22	2.13	0.45
1:E:97:TYR:C	1:E:99:GLU:N	2.69	0.45
1:F:554:LYS:O	1:F:555:GLN:C	2.54	0.45
2:J:52:ILE:HG23	2:J:53:ASN:H	1.81	0.45
2:K:127:GLU:HG2	2:K:127:GLU:O	2.16	0.45
2:L:17:SER:O	2:L:18:LEU:C	2.55	0.45
2:L:52:ILE:HG23	2:L:53:ASN:H	1.81	0.45
2:M:5:THR:HG22	2:M:8:GLN:HB2	1.97	0.45
1:A:142:VAL:HG22	1:A:154:ILE:CG2	2.43	0.45
1:A:234:LEU:HD23	1:A:234:LEU:N	2.31	0.45
1:A:504:ILE:H	1:A:504:ILE:CD1	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:172:GLU:OE1	1:B:172:GLU:HA	2.16	0.45
1:B:197:LYS:NZ	1:B:197:LYS:CB	2.80	0.45
1:B:373:LYS:HD3	1:B:376:GLN:NE2	2.31	0.45
1:B:481:VAL:O	1:B:482:GLU:HB2	2.17	0.45
1:B:626:TYR:C	1:B:626:TYR:CD2	2.90	0.45
1:C:444:PHE:N	1:C:444:PHE:CD1	2.85	0.45
1:C:554:LYS:O	1:C:555:GLN:C	2.53	0.45
1:C:561:ASN:C	1:C:563:ALA:H	2.19	0.45
1:C:657:ILE:HB	1:C:759:GLN:HG2	1.96	0.45
1:C:761:GLN:OE1	1:C:761:GLN:HA	2.15	0.45
1:D:102:GLY:C	1:D:103:GLU:HG3	2.36	0.45
1:D:197:LYS:NZ	1:D:197:LYS:CB	2.80	0.45
1:D:413:LEU:HB2	1:D:419:ILE:CG1	2.45	0.45
1:D:694:VAL:C	1:D:696:LYS:N	2.69	0.45
1:D:757:THR:O	1:D:758:ASN:C	2.54	0.45
1:D:89:ILE:HD13	1:D:175:LYS:CE	2.34	0.45
1:F:377:GLN:O	1:F:381:GLU:HB2	2.15	0.45
1:F:679:TYR:CE2	1:F:691:LYS:HG3	2.51	0.45
1:F:761:GLN:OE1	1:F:761:GLN:HA	2.15	0.45
2:H:13:LYS:HA	2:H:16:PHE:HB3	1.98	0.45
2:I:70:THR:CG2	2:I:70:THR:O	2.64	0.45
2:J:5:THR:HG22	2:J:8:GLN:HB2	1.97	0.45
2:M:52:ILE:HG23	2:M:53:ASN:H	1.81	0.45
1:A:100:LEU:HD11	1:A:182:ILE:CG2	2.44	0.45
1:A:173:ILE:HG23	1:A:174:GLY:N	2.31	0.45
1:A:218:LEU:HD12	1:A:218:LEU:C	2.37	0.45
1:A:557:LEU:HD23	1:A:557:LEU:O	2.17	0.45
1:A:694:VAL:CG2	2:H:18:LEU:HD11	2.47	0.45
1:B:132:GLY:O	1:B:133:GLU:HB2	2.15	0.45
1:B:175:LYS:HB2	1:B:175:LYS:HZ2	1.78	0.45
1:B:176:GLY:C	1:B:178:SER:N	2.69	0.45
1:B:189:ASP:HB3	1:B:190:PRO:CD	2.46	0.45
1:B:346:LYS:O	1:B:346:LYS:HG2	2.16	0.45
1:B:446:ILE:HB	1:B:453:VAL:HG22	1.99	0.45
1:C:131:ARG:HG3	1:C:243:LEU:HD13	1.99	0.45
1:C:172:GLU:HA	1:C:172:GLU:OE1	2.16	0.45
1:C:248:TYR:HE1	1:C:269:ASN:CA	2.29	0.45
1:C:279:ILE:HG22	1:C:283:LEU:CD1	2.46	0.45
1:C:323:ASN:C	1:C:324:THR:CG2	2.85	0.45
1:D:557:LEU:HD11	1:D:577:HIS:O	2.17	0.45
1:D:716:LYS:HG3	1:D:717:LYS:N	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:776:LEU:CD2	1:D:780:LEU:HD21	2.47	0.45
1:E:154:ILE:HG22	1:E:155:ASN:H	1.81	0.45
1:E:197:LYS:NZ	1:E:197:LYS:CB	2.79	0.45
1:E:792:VAL:HG12	1:E:796:ILE:CD1	2.42	0.45
1:F:173:ILE:HG23	1:F:174:GLY:N	2.32	0.45
1:F:512:GLU:O	1:F:516:VAL:HG23	2.15	0.45
1:F:518:ASN:N	1:F:518:ASN:HD22	2.13	0.45
1:F:629:ASN:C	1:F:629:ASN:HD22	2.15	0.45
1:F:666:ASN:HD22	1:F:666:ASN:N	2.14	0.45
1:F:776:LEU:CD2	1:F:780:LEU:HD21	2.46	0.45
2:J:5:THR:O	2:J:8:GLN:HB3	2.17	0.45
2:K:13:LYS:NZ	2:K:65:PHE:HB3	2.31	0.45
1:E:530:THR:HG21	2:L:145:MET:HE3	1.98	0.45
2:L:30:LYS:CD	2:L:30:LYS:H	2.20	0.45
1:E:534:ILE:HG21	2:L:84:GLU:HB3	1.98	0.45
1:A:170:TYR:C	1:A:172:GLU:N	2.69	0.45
1:A:325:TYR:C	1:A:326:ILE:HG13	2.35	0.45
1:A:397:GLU:O	1:A:480:ASN:N	2.49	0.45
1:B:254:ARG:CD	1:B:254:ARG:H	2.24	0.45
1:B:486:LYS:HE3	1:B:570:THR:O	2.16	0.45
1:C:71:PHE:HD1	1:C:108:ASP:OD1	1.99	0.45
1:C:441:VAL:O	1:C:441:VAL:HG12	2.16	0.45
1:C:518:ASN:HD22	1:C:518:ASN:N	2.13	0.45
1:D:132:GLY:O	1:D:133:GLU:HB2	2.16	0.45
1:D:122:GLU:CB	1:D:147:ARG:HG3	2.47	0.45
1:D:288:VAL:HG12	1:D:292:ARG:HH22	1.82	0.45
1:D:559:ARG:HG3	1:D:559:ARG:HH11	1.81	0.45
1:D:607:ASN:C	1:D:609:GLU:N	2.70	0.45
1:D:723:PHE:O	1:D:724:ARG:C	2.53	0.45
1:D:730:ASN:O	1:D:732:ILE:N	2.49	0.45
1:E:368:GLN:OE1	1:E:368:GLN:HA	2.16	0.45
1:E:387:ASN:O	1:E:390:SER:HB2	2.17	0.45
1:E:512:GLU:O	1:E:516:VAL:HG23	2.15	0.45
1:E:694:VAL:C	1:E:696:LYS:N	2.68	0.45
1:E:660:SER:HB2	1:E:702:SER:HB2	1.98	0.45
1:E:738:SER:HB3	1:E:739:LYS:H	1.59	0.45
1:F:131:ARG:HG3	1:F:243:LEU:HD13	1.99	0.45
1:F:172:GLU:HA	1:F:172:GLU:OE1	2.15	0.45
1:F:176:GLY:C	1:F:178:SER:N	2.70	0.45
1:F:381:GLU:C	1:F:383:GLY:N	2.69	0.45
2:H:116:LEU:HD13	2:H:121:VAL:CG2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:21:LYS:O	2:H:23:GLY:N	2.38	0.45
2:I:52:ILE:HG23	2:I:53:ASN:H	1.81	0.45
1:C:534:ILE:HG21	2:J:84:GLU:HB3	1.98	0.45
2:K:97:ASN:N	2:K:97:ASN:ND2	2.63	0.45
2:M:116:LEU:HD13	2:M:121:VAL:CG2	2.46	0.45
1:A:115:LYS:HB3	1:A:115:LYS:HZ2	1.81	0.45
1:A:217:LYS:HZ1	1:A:233:ASN:HB3	1.81	0.45
1:A:368:GLN:HA	1:A:368:GLN:OE1	2.15	0.45
1:A:441:VAL:HG12	1:A:441:VAL:O	2.16	0.45
1:A:446:ILE:HG13	1:A:452:GLU:O	2.15	0.45
1:B:279:ILE:O	1:B:283:LEU:HB2	2.17	0.45
1:B:518:ASN:N	1:B:518:ASN:HD22	2.13	0.45
1:C:173:ILE:HG23	1:C:174:GLY:N	2.31	0.45
1:C:218:LEU:CD1	1:C:225:ILE:HD11	2.45	0.45
1:C:397:GLU:O	1:C:480:ASN:N	2.49	0.45
1:C:408:LEU:O	1:C:409:ARG:C	2.55	0.45
1:C:375:GLY:HA2	1:C:464:VAL:HG11	1.99	0.45
1:C:652:ALA:HB1	2:J:99:TYR:HE1	1.82	0.45
1:D:176:GLY:C	1:D:178:SER:N	2.70	0.45
1:E:615:ILE:HD12	1:E:645:TRP:CH2	2.48	0.45
1:F:579:THR:C	1:F:581:GLN:N	2.70	0.45
2:H:16:PHE:HE1	2:H:27:ILE:CG1	2.30	0.45
2:H:65:PHE:HD1	2:H:66:PRO:CD	2.26	0.45
2:I:17:SER:O	2:I:18:LEU:C	2.55	0.45
2:J:70:THR:O	2:J:70:THR:CG2	2.64	0.45
2:K:5:THR:O	2:K:8:GLN:HB3	2.17	0.45
2:L:104:GLU:HG2	2:L:104:GLU:H	1.49	0.45
2:M:136:VAL:HG23	2:M:136:VAL:O	2.17	0.45
1:A:197:LYS:NZ	1:A:197:LYS:CB	2.80	0.45
1:A:197:LYS:NZ	1:A:264:MET:SD	2.90	0.45
1:A:269:ASN:O	1:A:273:LYS:HG3	2.17	0.45
1:A:71:PHE:HD1	1:A:108:ASP:OD1	2.00	0.45
1:B:154:ILE:HG22	1:B:155:ASN:H	1.81	0.45
1:B:328:PHE:N	1:B:328:PHE:CD1	2.85	0.45
1:B:381:GLU:C	1:B:383:GLY:N	2.69	0.45
1:C:77:ASP:O	1:C:81:GLN:CB	2.61	0.45
1:D:173:ILE:HG23	1:D:174:GLY:N	2.31	0.45
1:D:284:LYS:HE3	1:D:284:LYS:HA	1.97	0.45
1:D:370:LEU:HD11	1:D:455:TYR:CE1	2.52	0.45
1:D:504:ILE:CD1	1:D:504:ILE:H	2.30	0.45
1:D:557:LEU:HD23	1:D:557:LEU:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:85:LEU:HD12	1:D:168:GLU:OE1	2.16	0.45
1:E:248:TYR:HE1	1:E:269:ASN:CA	2.29	0.45
1:F:192:PHE:HA	1:F:195:LEU:CB	2.46	0.45
1:F:333:LYS:C	1:F:335:ALA:N	2.70	0.45
1:F:387:ASN:N	1:F:387:ASN:HD22	2.14	0.45
2:H:110:THR:HA	2:H:114:GLU:O	2.17	0.45
2:H:127:GLU:O	2:H:127:GLU:HG2	2.15	0.45
2:J:13:LYS:NZ	2:J:65:PHE:HB3	2.32	0.45
2:J:38:SER:C	2:J:40:GLY:H	2.20	0.45
2:J:75:LYS:O	2:J:76:MET:HB2	2.16	0.45
1:A:176:GLY:C	1:A:178:SER:N	2.70	0.45
1:A:373:LYS:O	1:A:380:VAL:HG22	2.16	0.45
1:A:520:PRO:CG	1:A:521:ASN:N	2.78	0.45
1:A:581:GLN:NE2	1:A:629:ASN:N	2.61	0.45
1:A:659:THR:HG22	1:A:660:SER:H	1.81	0.45
1:A:694:VAL:C	1:A:696:LYS:N	2.68	0.45
1:A:89:ILE:HG13	1:A:89:ILE:H	1.55	0.45
1:B:175:LYS:O	1:B:176:GLY:C	2.55	0.45
1:B:370:LEU:HD11	1:B:455:TYR:CE1	2.51	0.45
1:B:373:LYS:O	1:B:380:VAL:HG22	2.16	0.45
1:B:445:ARG:HG2	1:B:471:TRP:CZ3	2.52	0.45
1:B:593:ILE:C	1:B:604:LEU:HD12	2.38	0.45
1:B:607:ASN:C	1:B:609:GLU:H	2.19	0.45
1:B:776:LEU:CD2	1:B:780:LEU:HD21	2.47	0.45
1:B:89:ILE:CG2	1:B:90:PRO:HD2	2.46	0.45
1:C:123:GLU:O	1:C:146:LYS:NZ	2.37	0.45
1:C:607:ASN:C	1:C:609:GLU:N	2.70	0.45
1:C:667:LEU:O	1:C:668:SER:C	2.55	0.45
1:D:323:ASN:C	1:D:324:THR:CG2	2.85	0.45
1:D:381:GLU:C	1:D:383:GLY:N	2.70	0.45
1:D:517:VAL:HG23	1:D:518:ASN:HD22	1.82	0.45
1:E:172:GLU:HA	1:E:172:GLU:OE1	2.15	0.45
1:E:333:LYS:C	1:E:335:ALA:N	2.70	0.45
1:E:373:LYS:HD3	1:E:376:GLN:NE2	2.31	0.45
1:E:373:LYS:O	1:E:380:VAL:HG22	2.17	0.45
1:F:177:ILE:HA	1:F:180:ASP:CG	2.37	0.45
1:F:284:LYS:HA	1:F:284:LYS:HE3	1.97	0.45
1:F:561:ASN:C	1:F:563:ALA:H	2.19	0.45
1:F:607:ASN:C	1:F:609:GLU:H	2.19	0.45
1:F:630:ARG:CD	2:M:83:GLU:HG2	2.47	0.45
2:H:83:GLU:O	2:H:84:GLU:C	2.53	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:534:ILE:HG21	2:H:84:GLU:HB3	1.98	0.45
2:H:89:PHE:O	2:H:91:VAL:N	2.49	0.45
2:K:110:THR:O	2:K:113:GLY:N	2.47	0.45
2:L:13:LYS:NZ	2:L:65:PHE:HB3	2.32	0.45
2:M:87:GLU:C	2:M:89:PHE:N	2.70	0.45
1:A:387:ASN:HD22	1:A:387:ASN:N	2.15	0.45
1:A:561:ASN:C	1:A:563:ALA:H	2.19	0.45
1:A:607:ASN:C	1:A:609:GLU:H	2.19	0.45
1:A:626:TYR:CD2	1:A:627:TYR:N	2.85	0.45
1:B:173:ILE:HG23	1:B:174:GLY:N	2.32	0.45
1:B:184:LYS:HE3	1:B:191:GLU:CB	2.45	0.45
1:B:389:LYS:C	1:B:391:ILE:N	2.69	0.45
1:B:441:VAL:O	1:B:441:VAL:HG12	2.17	0.45
1:B:557:LEU:O	1:B:557:LEU:HD23	2.16	0.45
1:B:562:GLU:O	1:B:562:GLU:HG3	2.11	0.45
1:B:83:GLN:C	1:B:85:LEU:N	2.70	0.45
1:C:381:GLU:C	1:C:383:GLY:N	2.69	0.45
1:C:517:VAL:HG23	1:C:518:ASN:HD22	1.82	0.45
1:C:628:PHE:CE2	2:J:90:ARG:NH1	2.84	0.45
1:C:660:SER:HB2	1:C:702:SER:HB2	1.97	0.45
1:C:716:LYS:HG3	1:C:717:LYS:N	2.31	0.45
1:C:754:GLU:HG2	1:C:758:ASN:HD21	1.82	0.45
1:D:338:LEU:O	1:D:341:SER:HB3	2.17	0.45
1:D:682:SER:OG	1:D:683:GLY:N	2.49	0.45
1:D:71:PHE:HD1	1:D:108:ASP:OD1	2.00	0.45
1:E:184:LYS:CE	1:E:193:LEU:HD12	2.37	0.45
1:E:279:ILE:HG22	1:E:283:LEU:CD1	2.46	0.45
1:E:323:ASN:C	1:E:324:THR:CG2	2.85	0.45
1:E:504:ILE:CD1	1:E:504:ILE:H	2.30	0.45
1:E:79:ILE:C	1:E:81:GLN:N	2.70	0.45
1:F:70:GLU:CB	1:F:107:THR:HA	2.44	0.45
1:F:338:LEU:O	1:F:341:SER:HB3	2.17	0.45
1:F:397:GLU:O	1:F:480:ASN:N	2.50	0.45
1:F:457:THR:HG23	1:F:469:PHE:H	1.82	0.45
1:F:504:ILE:CD1	1:F:504:ILE:N	2.78	0.45
1:F:532:LEU:HD23	1:F:532:LEU:HA	1.84	0.45
1:F:607:ASN:C	1:F:609:GLU:N	2.70	0.45
1:F:732:ILE:C	1:F:734:ASN:N	2.69	0.45
1:A:630:ARG:HD2	2:H:83:GLU:HG2	1.98	0.45
1:B:513:TRP:CZ2	2:I:114:GLU:HB2	2.52	0.45
2:I:38:SER:C	2:I:40:GLY:H	2.20	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:110:THR:O	2:J:113:GLY:N	2.48	0.45
2:K:104:GLU:HG2	2:K:104:GLU:H	1.49	0.45
1:A:173:ILE:O	1:A:174:GLY:C	2.55	0.45
1:A:192:PHE:HA	1:A:195:LEU:HB2	1.98	0.45
1:A:776:LEU:CD2	1:A:780:LEU:HD21	2.47	0.45
1:B:446:ILE:HG13	1:B:452:GLU:O	2.16	0.45
1:B:517:VAL:HG23	1:B:518:ASN:HD22	1.82	0.45
1:B:723:PHE:O	1:B:724:ARG:C	2.54	0.45
1:B:655:ASN:O	1:B:759:GLN:NE2	2.50	0.45
1:C:112:VAL:HG12	1:C:113:GLU:N	2.22	0.45
1:C:176:GLY:C	1:C:178:SER:N	2.70	0.45
1:C:217:LYS:HZ1	1:C:233:ASN:HB3	1.82	0.45
1:C:345:THR:HG21	1:C:491:ASP:HA	1.99	0.45
1:C:373:LYS:O	1:C:380:VAL:HG22	2.17	0.45
1:C:446:ILE:HB	1:C:453:VAL:HG22	1.98	0.45
1:C:500:SER:O	1:C:503:GLU:N	2.36	0.45
1:C:540:ARG:NH1	1:C:627:TYR:CE1	2.84	0.45
1:D:446:ILE:HB	1:D:453:VAL:HG22	1.98	0.45
1:D:445:ARG:HG2	1:D:471:TRP:CZ3	2.52	0.45
1:D:99:GLU:C	1:D:101:GLY:N	2.68	0.45
1:E:197:LYS:NZ	1:E:264:MET:SD	2.89	0.45
1:E:387:ASN:N	1:E:387:ASN:HD22	2.15	0.45
1:E:629:ASN:C	1:E:629:ASN:HD22	2.17	0.45
1:F:792:VAL:HG12	1:F:796:ILE:CD1	2.43	0.45
2:I:138:TYR:CE1	2:I:142:VAL:CG2	3.00	0.45
1:C:709:ASN:CB	2:J:130:ILE:HG23	2.43	0.45
2:K:58:ASP:C	2:K:60:ASN:N	2.71	0.45
2:K:73:ALA:C	2:K:75:LYS:N	2.69	0.45
2:L:116:LEU:HD13	2:L:121:VAL:CG2	2.45	0.45
1:E:694:VAL:CG2	2:L:18:LEU:HD11	2.47	0.45
2:L:70:THR:O	2:L:70:THR:CG2	2.63	0.45
1:A:431:LYS:O	1:A:432:TYR:CD2	2.67	0.45
1:A:444:PHE:N	1:A:444:PHE:CD1	2.84	0.45
1:A:500:SER:O	1:A:503:GLU:N	2.38	0.45
1:A:559:ARG:HD2	1:A:562:GLU:OE2	2.17	0.45
1:A:97:TYR:C	1:A:99:GLU:N	2.70	0.45
1:B:192:PHE:HA	1:B:195:LEU:CB	2.46	0.45
1:B:234:LEU:N	1:B:234:LEU:HD23	2.32	0.45
1:B:197:LYS:NZ	1:B:264:MET:SD	2.90	0.45
1:C:173:ILE:O	1:C:174:GLY:C	2.56	0.45
1:C:254:ARG:H	1:C:254:ARG:CD	2.24	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:373:LYS:HD3	1:C:376:GLN:NE2	2.31	0.45
1:C:741:ILE:O	1:C:741:ILE:HG13	2.17	0.45
1:D:346:LYS:O	1:D:346:LYS:HG2	2.16	0.45
1:D:397:GLU:O	1:D:480:ASN:N	2.50	0.45
1:E:115:LYS:HB3	1:E:115:LYS:HZ2	1.82	0.45
1:E:446:ILE:HB	1:E:453:VAL:HG22	1.98	0.45
1:E:666:ASN:N	1:E:666:ASN:HD22	2.14	0.45
1:E:764:LEU:O	1:E:766:HIS:N	2.50	0.45
1:F:71:PHE:HD1	1:F:108:ASP:OD1	1.99	0.45
1:F:218:LEU:CD1	1:F:225:ILE:HD11	2.46	0.45
1:F:431:LYS:O	1:F:432:TYR:CD2	2.68	0.45
1:F:517:VAL:HG23	1:F:518:ASN:HD22	1.82	0.45
1:F:530:THR:CG2	2:M:88:ALA:HB1	2.46	0.45
1:F:557:LEU:HD11	1:F:577:HIS:O	2.17	0.45
1:F:626:TYR:CD2	1:F:627:TYR:N	2.85	0.45
2:H:143:GLN:HE21	2:H:143:GLN:HB3	1.53	0.45
2:H:38:SER:C	2:H:40:GLY:H	2.20	0.45
2:H:70:THR:O	2:H:70:THR:CG2	2.64	0.45
2:K:87:GLU:C	2:K:89:PHE:N	2.71	0.45
2:M:58:ASP:C	2:M:60:ASN:N	2.71	0.45
1:A:131:ARG:HG3	1:A:243:LEU:HD13	1.98	0.44
1:A:154:ILE:HG22	1:A:155:ASN:H	1.82	0.44
1:A:517:VAL:HG23	1:A:518:ASN:HD22	1.82	0.44
1:A:559:ARG:HH11	1:A:559:ARG:HG3	1.82	0.44
1:A:632:TYR:CE2	1:A:643:ILE:HG21	2.52	0.44
1:A:792:VAL:HG12	1:A:796:ILE:CD1	2.42	0.44
1:B:378:LEU:O	1:B:382:LYS:N	2.47	0.44
1:B:444:PHE:CD1	1:B:444:PHE:N	2.85	0.44
1:B:607:ASN:C	1:B:609:GLU:N	2.70	0.44
1:B:730:ASN:O	1:B:732:ILE:N	2.50	0.44
1:C:192:PHE:HA	1:C:195:LEU:HB2	1.98	0.44
1:C:557:LEU:O	1:C:557:LEU:HD23	2.17	0.44
1:C:626:TYR:CD2	1:C:627:TYR:N	2.85	0.44
1:C:690:LYS:HZ3	1:C:741:ILE:HG23	1.82	0.44
1:D:345:THR:HG21	1:D:491:ASP:HA	1.99	0.44
1:D:632:TYR:CE2	1:D:643:ILE:HG21	2.51	0.44
1:D:724:ARG:CG	1:D:724:ARG:NH1	2.81	0.44
1:E:175:LYS:O	1:E:176:GLY:C	2.54	0.44
1:E:192:PHE:HA	1:E:195:LEU:HB2	1.98	0.44
1:E:559:ARG:HD2	1:E:562:GLU:OE2	2.16	0.44
1:E:694:VAL:O	1:E:696:LYS:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:71:PHE:CD1	1:E:73:ASN:HB2	2.52	0.44
1:F:254:ARG:CD	1:F:254:ARG:H	2.24	0.44
1:F:375:GLY:HA2	1:F:464:VAL:HG11	1.99	0.44
1:F:559:ARG:HH11	1:F:559:ARG:HG3	1.81	0.44
1:F:697:ILE:CG2	1:F:732:ILE:HD11	2.37	0.44
2:H:52:ILE:HG23	2:H:53:ASN:H	1.81	0.44
2:K:110:THR:HA	2:K:114:GLU:O	2.18	0.44
2:K:136:VAL:O	2:K:136:VAL:HG23	2.18	0.44
2:K:89:PHE:O	2:K:91:VAL:N	2.51	0.44
2:M:21:LYS:O	2:M:23:GLY:N	2.38	0.44
1:A:112:VAL:HG12	1:A:113:GLU:N	2.23	0.44
1:A:292:ARG:HB3	1:A:293:ILE:H	1.68	0.44
1:A:410:ILE:C	1:A:412:GLU:N	2.71	0.44
1:A:345:THR:HG21	1:A:491:ASP:HA	1.99	0.44
1:A:738:SER:HB3	1:A:739:LYS:H	1.59	0.44
1:B:218:LEU:C	1:B:218:LEU:HD12	2.38	0.44
1:B:333:LYS:C	1:B:335:ALA:N	2.70	0.44
1:B:338:LEU:O	1:B:341:SER:HB3	2.17	0.44
1:B:557:LEU:HD11	1:B:577:HIS:O	2.18	0.44
1:B:682:SER:OG	1:B:683:GLY:N	2.48	0.44
1:C:182:ILE:CD1	1:C:182:ILE:O	2.61	0.44
1:C:188:LEU:CD2	1:C:188:LEU:N	2.49	0.44
1:C:284:LYS:HA	1:C:284:LYS:HE3	1.97	0.44
1:C:333:LYS:C	1:C:335:ALA:N	2.70	0.44
1:C:655:ASN:O	1:C:759:GLN:NE2	2.50	0.44
1:C:776:LEU:CD2	1:C:780:LEU:HD21	2.47	0.44
1:E:131:ARG:HG3	1:E:243:LEU:HD13	1.99	0.44
1:E:279:ILE:O	1:E:283:LEU:HB2	2.16	0.44
1:E:625:LEU:HD12	1:E:626:TYR:N	2.33	0.44
1:E:776:LEU:CD2	1:E:780:LEU:HD21	2.47	0.44
1:F:175:LYS:O	1:F:176:GLY:C	2.55	0.44
1:F:663:PHE:O	1:F:664:ILE:C	2.54	0.44
1:F:667:LEU:O	1:F:668:SER:C	2.56	0.44
1:F:660:SER:HB2	1:F:702:SER:HB2	1.98	0.44
1:F:757:THR:O	1:F:758:ASN:C	2.54	0.44
2:H:138:TYR:CE1	2:H:142:VAL:CG2	3.01	0.44
2:J:110:THR:HA	2:J:114:GLU:O	2.17	0.44
2:L:73:ALA:C	2:L:75:LYS:N	2.69	0.44
2:M:117:THR:HG21	2:M:120:GLU:OE2	2.18	0.44
1:F:668:SER:CA	2:M:14:GLU:HG3	2.43	0.44
1:A:131:ARG:HG3	1:A:243:LEU:CD2	2.45	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:387:ASN:O	1:A:390:SER:HB2	2.17	0.44
1:A:543:ASP:OD2	1:A:554:LYS:NZ	2.39	0.44
1:A:754:GLU:HG2	1:A:758:ASN:HD21	1.83	0.44
1:A:79:ILE:C	1:A:81:GLN:N	2.69	0.44
1:B:71:PHE:HD1	1:B:108:ASP:OD1	2.00	0.44
1:B:192:PHE:HA	1:B:195:LEU:HB2	1.98	0.44
1:B:574:VAL:HG22	1:B:574:VAL:O	2.18	0.44
1:B:661:ALA:HB2	2:I:38:SER:O	2.17	0.44
1:B:761:GLN:OE1	1:B:761:GLN:HA	2.15	0.44
1:C:115:LYS:HZ2	1:C:115:LYS:HB3	1.83	0.44
1:C:175:LYS:HZ2	1:C:175:LYS:HB2	1.83	0.44
1:C:177:ILE:HA	1:C:180:ASP:CG	2.38	0.44
1:C:446:ILE:HG13	1:C:452:GLU:O	2.17	0.44
1:C:786:GLU:O	1:C:786:GLU:HG3	2.18	0.44
1:D:172:GLU:HA	1:D:172:GLU:OE1	2.16	0.44
1:D:218:LEU:C	1:D:218:LEU:HD12	2.38	0.44
1:D:457:THR:HG23	1:D:469:PHE:H	1.82	0.44
1:D:628:PHE:CE2	2:K:90:ARG:NH1	2.86	0.44
1:D:659:THR:HG22	1:D:660:SER:H	1.82	0.44
1:E:218:LEU:CD1	1:E:225:ILE:HD11	2.46	0.44
1:E:217:LYS:HZ1	1:E:233:ASN:HB3	1.81	0.44
1:E:254:ARG:CD	1:E:254:ARG:H	2.24	0.44
1:E:370:LEU:HD11	1:E:455:TYR:CE1	2.52	0.44
1:E:445:ARG:HG2	1:E:471:TRP:CZ3	2.52	0.44
1:E:574:VAL:O	1:E:574:VAL:HG22	2.18	0.44
1:E:89:ILE:CG2	1:E:90:PRO:HD2	2.47	0.44
1:F:190:PRO:O	1:F:191:GLU:C	2.55	0.44
1:F:196:ILE:HG22	1:F:196:ILE:O	2.18	0.44
2:H:136:VAL:O	2:H:136:VAL:HG23	2.18	0.44
2:I:117:THR:HG23	2:I:120:GLU:CB	2.43	0.44
2:I:136:VAL:O	2:I:136:VAL:HG23	2.17	0.44
1:F:530:THR:HG21	2:M:145:MET:HE3	1.98	0.44
1:F:534:ILE:HG21	2:M:84:GLU:HB3	1.99	0.44
1:A:375:GLY:HA2	1:A:464:VAL:HG11	1.99	0.44
1:A:629:ASN:HD22	1:A:630:ARG:H	1.64	0.44
1:A:694:VAL:O	1:A:696:LYS:N	2.50	0.44
1:B:323:ASN:C	1:B:324:THR:CG2	2.85	0.44
1:B:329:ARG:HB3	1:B:330:PRO:HD3	1.99	0.44
1:B:376:GLN:C	1:B:378:LEU:H	2.21	0.44
1:B:504:ILE:H	1:B:504:ILE:CD1	2.31	0.44
1:B:559:ARG:HD2	1:B:562:GLU:OE2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:732:ILE:C	1:B:734:ASN:N	2.70	0.44
1:B:741:ILE:HG13	1:B:741:ILE:O	2.17	0.44
1:C:144:GLU:O	1:C:146:LYS:N	2.51	0.44
1:C:182:ILE:HD13	1:C:187:SER:HB2	2.00	0.44
1:C:486:LYS:HE3	1:C:570:THR:O	2.17	0.44
1:D:441:VAL:O	1:D:441:VAL:HG12	2.16	0.44
1:D:607:ASN:C	1:D:609:GLU:H	2.19	0.44
1:D:653:LYS:O	1:D:655:ASN:N	2.51	0.44
1:D:97:TYR:C	1:D:99:GLU:N	2.69	0.44
1:E:100:LEU:HD11	1:E:182:ILE:CG2	2.42	0.44
1:E:115:LYS:O	1:E:117:LEU:N	2.51	0.44
1:E:177:ILE:HA	1:E:180:ASP:CG	2.38	0.44
1:E:375:GLY:HA2	1:E:464:VAL:HG11	1.98	0.44
1:E:397:GLU:O	1:E:480:ASN:N	2.50	0.44
1:F:170:TYR:O	1:F:174:GLY:N	2.47	0.44
1:F:218:LEU:C	1:F:218:LEU:HD12	2.37	0.44
1:F:446:ILE:HB	1:F:453:VAL:HG22	1.98	0.44
1:F:446:ILE:HG12	1:F:447:SER:O	2.18	0.44
1:F:632:TYR:CE2	1:F:643:ILE:HG21	2.51	0.44
2:H:97:ASN:ND2	2:H:97:ASN:N	2.64	0.44
2:I:110:THR:HA	2:I:114:GLU:O	2.18	0.44
2:I:65:PHE:HD1	2:I:66:PRO:CD	2.26	0.44
2:J:117:THR:HG21	2:J:120:GLU:OE2	2.18	0.44
2:K:52:ILE:HG23	2:K:53:ASN:H	1.81	0.44
1:E:709:ASN:CB	2:L:130:ILE:HG23	2.41	0.44
1:A:177:ILE:HA	1:A:180:ASP:CG	2.38	0.44
1:A:403:LEU:HG	1:A:405:LEU:HD11	2.00	0.44
1:A:655:ASN:O	1:A:759:GLN:NE2	2.51	0.44
1:A:83:GLN:C	1:A:85:LEU:N	2.70	0.44
1:B:190:PRO:O	1:B:191:GLU:C	2.54	0.44
1:B:288:VAL:CG2	1:B:289:GLU:H	2.26	0.44
1:B:89:ILE:HD13	1:B:175:LYS:CE	2.34	0.44
1:C:269:ASN:O	1:C:273:LYS:HG3	2.17	0.44
1:C:299:GLU:HA	1:C:302:LEU:HB3	1.99	0.44
1:C:318:ILE:O	1:C:319:ALA:C	2.53	0.44
1:C:389:LYS:C	1:C:391:ILE:N	2.69	0.44
1:D:170:TYR:C	1:D:172:GLU:N	2.69	0.44
1:D:179:LEU:HG	1:D:180:ASP:N	2.33	0.44
1:D:262:PRO:HG2	1:D:263:ASP:H	1.82	0.44
1:D:269:ASN:O	1:D:273:LYS:HG3	2.17	0.44
1:D:333:LYS:C	1:D:335:ALA:N	2.70	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:408:LEU:O	1:D:409:ARG:C	2.56	0.44
1:D:481:VAL:O	1:D:482:GLU:HB2	2.17	0.44
1:D:493:ASP:OD2	1:D:577:HIS:NE2	2.50	0.44
1:D:626:TYR:CD2	1:D:627:TYR:N	2.85	0.44
1:E:173:ILE:O	1:E:174:GLY:C	2.56	0.44
1:E:234:LEU:N	1:E:234:LEU:HD23	2.32	0.44
1:F:234:LEU:N	1:F:234:LEU:HD23	2.32	0.44
1:F:378:LEU:O	1:F:382:LYS:N	2.47	0.44
1:F:408:LEU:O	1:F:409:ARG:C	2.56	0.44
1:F:559:ARG:HD2	1:F:562:GLU:OE2	2.17	0.44
1:F:626:TYR:C	1:F:626:TYR:CD2	2.90	0.44
1:F:712:PHE:HB3	1:F:716:LYS:CG	2.47	0.44
2:K:143:GLN:HB3	2:K:143:GLN:HE21	1.53	0.44
2:L:110:THR:HA	2:L:114:GLU:O	2.17	0.44
2:L:25:GLY:CA	2:L:65:PHE:CZ	3.00	0.44
2:L:87:GLU:C	2:L:89:PHE:N	2.71	0.44
1:A:197:LYS:CB	1:A:197:LYS:HZ2	2.31	0.44
1:A:328:PHE:CD1	1:A:328:PHE:N	2.85	0.44
1:A:338:LEU:O	1:A:341:SER:HB3	2.17	0.44
1:A:410:ILE:O	1:A:412:GLU:N	2.50	0.44
1:A:762:LEU:O	1:A:763:LEU:C	2.55	0.44
1:B:323:ASN:O	1:B:324:THR:HG22	2.17	0.44
1:B:457:THR:HG23	1:B:469:PHE:H	1.82	0.44
1:B:667:LEU:O	1:B:668:SER:C	2.56	0.44
1:B:89:ILE:CG2	1:B:93:VAL:HG11	2.39	0.44
1:C:387:ASN:HD22	1:C:387:ASN:N	2.15	0.44
1:C:757:THR:O	1:C:758:ASN:C	2.55	0.44
1:D:123:GLU:O	1:D:146:LYS:NZ	2.38	0.44
1:D:323:ASN:O	1:D:324:THR:HG22	2.18	0.44
1:D:373:LYS:O	1:D:380:VAL:HG22	2.17	0.44
1:D:453:VAL:HG12	1:D:454:GLN:N	2.32	0.44
1:D:579:THR:C	1:D:581:GLN:N	2.70	0.44
1:E:218:LEU:C	1:E:218:LEU:HD12	2.37	0.44
1:E:408:LEU:O	1:E:409:ARG:C	2.56	0.44
1:E:410:ILE:O	1:E:412:GLU:N	2.50	0.44
1:E:517:VAL:HG23	1:E:518:ASN:HD22	1.82	0.44
1:E:630:ARG:CD	2:L:83:GLU:HG2	2.47	0.44
1:E:659:THR:HG22	1:E:660:SER:H	1.83	0.44
1:E:757:THR:O	1:E:758:ASN:C	2.54	0.44
1:F:345:THR:HG21	1:F:491:ASP:HA	1.99	0.44
1:F:410:ILE:O	1:F:412:GLU:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:694:VAL:C	1:F:696:LYS:N	2.70	0.44
2:J:73:ALA:C	2:J:75:LYS:N	2.69	0.44
2:M:97:ASN:N	2:M:97:ASN:ND2	2.64	0.44
1:A:122:GLU:CB	1:A:147:ARG:HG3	2.48	0.44
1:A:179:LEU:HG	1:A:180:ASP:N	2.33	0.44
1:A:323:ASN:O	1:A:324:THR:HG22	2.18	0.44
1:A:408:LEU:O	1:A:409:ARG:C	2.55	0.44
1:B:131:ARG:HG3	1:B:243:LEU:HD13	1.99	0.44
1:B:279:ILE:CD1	1:B:279:ILE:H	2.21	0.44
1:B:288:VAL:HG12	1:B:292:ARG:HH22	1.83	0.44
1:B:474:ILE:HG22	1:B:474:ILE:O	2.18	0.44
1:B:557:LEU:CD2	1:B:575:VAL:HG12	2.44	0.44
1:C:175:LYS:O	1:C:176:GLY:C	2.55	0.44
1:C:186:LYS:HE3	1:C:234:LEU:HB2	1.99	0.44
1:C:262:PRO:HG2	1:C:263:ASP:H	1.83	0.44
1:C:288:VAL:HG12	1:C:292:ARG:HH22	1.83	0.44
1:C:559:ARG:HH11	1:C:559:ARG:HG3	1.82	0.44
1:C:694:VAL:O	1:C:696:LYS:N	2.51	0.44
1:C:715:GLU:HA	1:C:718:ARG:CZ	2.43	0.44
1:C:732:ILE:C	1:C:734:ASN:N	2.70	0.44
1:D:186:LYS:HE3	1:D:234:LEU:HB2	1.99	0.44
1:D:373:LYS:HD3	1:D:376:GLN:NE2	2.32	0.44
1:D:387:ASN:N	1:D:387:ASN:HD22	2.15	0.44
1:D:410:ILE:O	1:D:412:GLU:N	2.50	0.44
1:D:431:LYS:O	1:D:432:TYR:CD2	2.69	0.44
1:E:329:ARG:HB3	1:E:330:PRO:HD3	1.99	0.44
1:E:632:TYR:CE2	1:E:643:ILE:HG21	2.52	0.44
1:F:175:LYS:CB	1:F:175:LYS:NZ	2.79	0.44
1:F:288:VAL:HG12	1:F:292:ARG:HH22	1.83	0.44
1:F:323:ASN:C	1:F:324:THR:CG2	2.86	0.44
1:F:441:VAL:HG12	1:F:441:VAL:O	2.17	0.44
1:F:615:ILE:HD12	1:F:645:TRP:CH2	2.48	0.44
1:F:79:ILE:C	1:F:81:GLN:N	2.69	0.44
2:I:15:ALA:CB	2:I:39:LEU:HD21	2.48	0.44
1:D:668:SER:CA	2:K:14:GLU:HG3	2.44	0.44
2:M:110:THR:HA	2:M:114:GLU:O	2.18	0.44
1:A:286:GLU:O	1:A:290:LYS:HB2	2.18	0.44
1:A:370:LEU:HD11	1:A:455:TYR:CE1	2.52	0.44
1:A:453:VAL:HG12	1:A:454:GLN:N	2.33	0.44
1:A:574:VAL:HG22	1:A:574:VAL:O	2.18	0.44
1:A:593:ILE:C	1:A:604:LEU:HD12	2.38	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:607:ASN:C	1:A:609:GLU:N	2.70	0.44
1:B:177:ILE:HA	1:B:180:ASP:CG	2.38	0.44
1:B:262:PRO:HG2	1:B:263:ASP:H	1.83	0.44
1:B:387:ASN:O	1:B:390:SER:HB2	2.17	0.44
1:B:446:ILE:HG12	1:B:447:SER:O	2.18	0.44
1:B:713:SER:O	1:B:714:GLN:C	2.56	0.44
1:C:730:ASN:O	1:C:732:ILE:N	2.51	0.44
1:D:713:SER:O	1:D:714:GLN:C	2.56	0.44
1:D:732:ILE:C	1:D:734:ASN:N	2.69	0.44
1:E:131:ARG:HG3	1:E:243:LEU:CD2	2.45	0.44
1:E:328:PHE:CD1	1:E:328:PHE:N	2.86	0.44
1:E:532:LEU:HD23	1:E:532:LEU:HA	1.84	0.44
1:E:786:GLU:O	1:E:786:GLU:HG3	2.18	0.44
1:F:434:LEU:C	1:F:434:LEU:HD12	2.38	0.44
2:H:15:ALA:CB	2:H:39:LEU:HD21	2.48	0.44
1:A:661:ALA:HB2	2:H:38:SER:O	2.18	0.44
2:I:117:THR:HG21	2:I:120:GLU:OE2	2.17	0.44
2:I:5:THR:O	2:I:8:GLN:HB3	2.17	0.44
2:I:25:GLY:CA	2:I:65:PHE:CZ	2.99	0.44
2:I:13:LYS:NZ	2:I:65:PHE:HB3	2.32	0.44
2:J:87:GLU:C	2:J:89:PHE:N	2.71	0.44
2:K:143:GLN:O	2:K:144:MET:C	2.55	0.44
2:K:76:MET:HA	2:K:79:THR:CG2	2.48	0.44
1:A:262:PRO:HG2	1:A:263:ASP:H	1.83	0.44
1:A:323:ASN:C	1:A:324:THR:CG2	2.86	0.44
1:A:446:ILE:HG12	1:A:447:SER:O	2.18	0.44
1:A:532:LEU:HA	1:A:532:LEU:HD23	1.84	0.44
1:B:403:LEU:HG	1:B:405:LEU:HD11	2.00	0.44
1:B:375:GLY:HA2	1:B:464:VAL:HG11	1.99	0.44
1:B:520:PRO:CG	1:B:521:ASN:H	2.15	0.44
1:B:626:TYR:CD2	1:B:627:TYR:N	2.85	0.44
1:C:474:ILE:O	1:C:474:ILE:HG22	2.18	0.44
1:C:792:VAL:HG12	1:C:796:ILE:CD1	2.42	0.44
1:D:626:TYR:CD2	1:D:626:TYR:C	2.90	0.44
1:E:123:GLU:O	1:E:146:LYS:NZ	2.38	0.44
1:E:179:LEU:HG	1:E:180:ASP:N	2.33	0.44
1:E:481:VAL:O	1:E:482:GLU:HB2	2.18	0.44
1:E:583:ASN:ND2	1:E:586:PHE:O	2.46	0.44
1:F:154:ILE:HG22	1:F:155:ASN:H	1.83	0.44
1:F:197:LYS:NZ	1:F:197:LYS:CB	2.79	0.44
1:F:199:LEU:O	1:F:201:ASP:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:373:LYS:HD3	1:F:376:GLN:NE2	2.31	0.44
2:H:76:MET:HA	2:H:79:THR:CG2	2.48	0.44
2:H:5:THR:O	2:H:8:GLN:HB3	2.17	0.44
2:I:37:ARG:O	2:I:38:SER:C	2.57	0.44
2:K:38:SER:C	2:K:40:GLY:H	2.20	0.44
2:L:117:THR:HG21	2:L:120:GLU:OE2	2.18	0.44
2:L:76:MET:HA	2:L:79:THR:CG2	2.48	0.44
1:A:182:ILE:HD13	1:A:187:SER:HB2	2.00	0.43
1:A:481:VAL:O	1:A:482:GLU:HB2	2.18	0.43
1:A:715:GLU:HA	1:A:718:ARG:CZ	2.43	0.43
1:A:700:TYR:HD1	1:A:727:GLN:C	2.21	0.43
1:A:732:ILE:C	1:A:734:ASN:N	2.70	0.43
1:A:786:GLU:O	1:A:786:GLU:HG3	2.18	0.43
1:B:184:LYS:CE	1:B:193:LEU:HD12	2.36	0.43
1:B:229:PHE:O	1:B:232:GLU:HB3	2.18	0.43
1:C:172:GLU:CG	1:C:246:SER:HA	2.48	0.43
1:C:457:THR:HG23	1:C:469:PHE:H	1.82	0.43
1:C:659:THR:HG22	1:C:660:SER:H	1.83	0.43
1:C:711:ILE:HG13	1:C:712:PHE:CD2	2.53	0.43
1:C:713:SER:O	1:C:714:GLN:C	2.56	0.43
1:C:767:GLN:HG2	1:C:768:LYS:N	2.32	0.43
1:D:410:ILE:C	1:D:412:GLU:N	2.71	0.43
1:D:786:GLU:O	1:D:786:GLU:HG3	2.18	0.43
1:E:196:ILE:HG22	1:E:196:ILE:O	2.17	0.43
1:E:269:ASN:O	1:E:273:LYS:HG3	2.17	0.43
1:E:446:ILE:HG12	1:E:447:SER:O	2.17	0.43
1:F:262:PRO:HG2	1:F:263:ASP:H	1.82	0.43
1:F:413:LEU:HB2	1:F:419:ILE:CG1	2.46	0.43
1:F:625:LEU:HD12	1:F:626:TYR:N	2.33	0.43
2:H:4:ALA:HA	2:H:8:GLN:NE2	2.33	0.43
2:I:87:GLU:C	2:I:89:PHE:N	2.71	0.43
2:J:13:LYS:C	2:J:15:ALA:N	2.72	0.43
2:K:15:ALA:CB	2:K:39:LEU:HD21	2.48	0.43
2:M:70:THR:CG2	2:M:70:THR:O	2.64	0.43
1:A:172:GLU:HA	1:A:172:GLU:OE1	2.17	0.43
1:A:184:LYS:CE	1:A:193:LEU:HD12	2.37	0.43
1:A:540:ARG:NH1	1:A:627:TYR:CE1	2.86	0.43
1:A:713:SER:O	1:A:714:GLN:C	2.56	0.43
1:A:700:TYR:HB3	1:A:728:ALA:HB2	2.01	0.43
1:B:196:ILE:HG22	1:B:196:ILE:O	2.19	0.43
1:B:197:LYS:CB	1:B:197:LYS:HZ2	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:322:LEU:HD13	1:B:556:MET:HE2	2.01	0.43
1:B:89:ILE:H	1:B:89:ILE:HG13	1.55	0.43
1:C:218:LEU:HD12	1:C:218:LEU:C	2.37	0.43
1:D:234:LEU:HD23	1:D:234:LEU:N	2.33	0.43
1:D:299:GLU:HA	1:D:302:LEU:HB3	2.00	0.43
1:D:83:GLN:C	1:D:85:LEU:N	2.70	0.43
1:E:318:ILE:H	1:E:318:ILE:CD1	2.12	0.43
1:E:338:LEU:O	1:E:341:SER:HB3	2.19	0.43
1:F:441:VAL:HG11	1:F:462:ILE:O	2.19	0.43
1:F:628:PHE:CE2	2:M:90:ARG:NH1	2.86	0.43
2:K:117:THR:HG21	2:K:120:GLU:OE2	2.18	0.43
2:K:25:GLY:CA	2:K:65:PHE:CZ	3.00	0.43
2:L:21:LYS:O	2:L:23:GLY:N	2.37	0.43
2:L:37:ARG:O	2:L:38:SER:C	2.57	0.43
2:L:94:LYS:HB3	2:L:94:LYS:HZ1	1.82	0.43
2:M:101:SER:OG	2:M:104:GLU:OE1	2.33	0.43
2:M:13:LYS:NZ	2:M:65:PHE:HB3	2.33	0.43
1:A:288:VAL:CG2	1:A:289:GLU:H	2.26	0.43
1:A:741:ILE:HG13	1:A:741:ILE:O	2.18	0.43
1:B:179:LEU:HG	1:B:180:ASP:N	2.33	0.43
1:B:615:ILE:HD12	1:B:645:TRP:CH2	2.47	0.43
1:B:625:LEU:HD12	1:B:626:TYR:N	2.34	0.43
1:B:775:LEU:O	1:B:776:LEU:C	2.57	0.43
1:C:160:ALA:O	1:C:161:ILE:CG1	2.63	0.43
1:C:328:PHE:N	1:C:328:PHE:CD1	2.86	0.43
1:C:410:ILE:C	1:C:412:GLU:N	2.71	0.43
1:C:446:ILE:HG12	1:C:447:SER:O	2.18	0.43
1:C:559:ARG:HD2	1:C:562:GLU:OE2	2.17	0.43
1:C:661:ALA:HB2	2:J:38:SER:O	2.18	0.43
1:D:288:VAL:CG2	1:D:289:GLU:H	2.26	0.43
1:D:474:ILE:HG22	1:D:474:ILE:O	2.18	0.43
1:D:667:LEU:O	1:D:668:SER:C	2.56	0.43
1:D:712:PHE:HB3	1:D:716:LYS:CG	2.47	0.43
1:D:753:LYS:O	1:D:754:GLU:C	2.56	0.43
1:E:144:GLU:O	1:E:146:LYS:N	2.50	0.43
1:E:176:GLY:C	1:E:178:SER:N	2.70	0.43
1:E:403:LEU:HG	1:E:405:LEU:HD11	2.00	0.43
1:F:286:GLU:O	1:F:290:LYS:HB2	2.18	0.43
1:F:389:LYS:C	1:F:391:ILE:N	2.69	0.43
1:F:593:ILE:C	1:F:604:LEU:HD12	2.39	0.43
2:I:76:MET:HA	2:I:79:THR:CG2	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:116:LEU:HD13	2:K:121:VAL:CG2	2.45	0.43
1:D:534:ILE:HG21	2:K:84:GLU:HB3	1.99	0.43
2:M:64:ASP:OD1	2:M:67:GLU:N	2.52	0.43
2:M:63:ILE:CG1	2:M:67:GLU:HB3	2.29	0.43
1:B:172:GLU:CG	1:B:246:SER:HA	2.48	0.43
1:B:549:LEU:HB2	1:B:553:GLN:HE21	1.82	0.43
1:C:154:ILE:HG22	1:C:155:ASN:N	2.33	0.43
1:C:196:ILE:O	1:C:196:ILE:HG22	2.18	0.43
1:C:549:LEU:HB2	1:C:553:GLN:HE21	1.83	0.43
1:C:636:ALA:O	1:C:640:LYS:CA	2.66	0.43
1:C:674:SER:O	1:C:676:VAL:N	2.48	0.43
1:C:700:TYR:HD1	1:C:727:GLN:C	2.22	0.43
1:C:700:TYR:HB3	1:C:728:ALA:HB2	2.00	0.43
1:D:173:ILE:O	1:D:174:GLY:C	2.56	0.43
1:D:177:ILE:HA	1:D:180:ASP:CG	2.39	0.43
1:D:446:ILE:HG12	1:D:447:SER:O	2.18	0.43
1:D:375:GLY:HA2	1:D:464:VAL:HG11	1.99	0.43
1:D:625:LEU:HD12	1:D:626:TYR:N	2.34	0.43
1:D:700:TYR:HD1	1:D:727:GLN:C	2.22	0.43
1:D:741:ILE:O	1:D:741:ILE:HG13	2.17	0.43
1:D:655:ASN:O	1:D:759:GLN:NE2	2.50	0.43
1:E:175:LYS:NZ	1:E:175:LYS:CB	2.80	0.43
1:E:184:LYS:HE3	1:E:191:GLU:CB	2.47	0.43
1:E:172:GLU:CG	1:E:246:SER:HA	2.49	0.43
1:E:557:LEU:O	1:E:557:LEU:HD23	2.18	0.43
1:E:754:GLU:HG2	1:E:758:ASN:HD21	1.83	0.43
1:E:655:ASN:O	1:E:759:GLN:NE2	2.51	0.43
1:F:192:PHE:HA	1:F:195:LEU:HB2	1.98	0.43
1:F:172:GLU:CG	1:F:246:SER:HA	2.48	0.43
1:F:285:LYS:HG3	1:F:286:GLU:H	1.83	0.43
1:F:387:ASN:O	1:F:390:SER:HB2	2.17	0.43
1:F:682:SER:OG	1:F:683:GLY:N	2.47	0.43
1:F:89:ILE:CG2	1:F:90:PRO:HD2	2.48	0.43
2:H:117:THR:HG21	2:H:120:GLU:OE2	2.18	0.43
2:I:21:LYS:O	2:I:23:GLY:N	2.36	0.43
2:I:58:ASP:C	2:I:60:ASN:N	2.71	0.43
2:I:6:GLU:O	2:I:9:ILE:N	2.43	0.43
2:J:25:GLY:CA	2:J:65:PHE:CZ	3.01	0.43
2:K:101:SER:OG	2:K:104:GLU:OE1	2.32	0.43
2:L:143:GLN:O	2:L:144:MET:C	2.56	0.43
2:L:37:ARG:NH1	2:L:37:ARG:CG	2.78	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:15:ALA:CB	2:M:39:LEU:HD21	2.48	0.43
2:M:37:ARG:O	2:M:38:SER:C	2.56	0.43
2:M:25:GLY:CA	2:M:65:PHE:CZ	3.00	0.43
1:A:187:SER:O	1:A:188:LEU:O	2.37	0.43
1:A:220:LEU:HG	1:A:223:LYS:CB	2.49	0.43
1:A:229:PHE:O	1:A:232:GLU:HB3	2.19	0.43
1:A:445:ARG:HG2	1:A:471:TRP:CZ3	2.53	0.43
1:A:583:ASN:ND2	1:A:586:PHE:O	2.47	0.43
1:B:173:ILE:O	1:B:174:GLY:C	2.56	0.43
1:B:410:ILE:C	1:B:412:GLU:N	2.71	0.43
1:B:410:ILE:O	1:B:412:GLU:N	2.51	0.43
1:B:700:TYR:HD1	1:B:727:GLN:C	2.22	0.43
1:B:737:LYS:CA	1:B:737:LYS:HE2	2.37	0.43
1:C:323:ASN:O	1:C:324:THR:HG22	2.18	0.43
1:C:445:ARG:HG2	1:C:471:TRP:CZ3	2.54	0.43
1:C:653:LYS:O	1:C:655:ASN:N	2.52	0.43
1:D:220:LEU:HG	1:D:223:LYS:CB	2.49	0.43
1:D:328:PHE:N	1:D:328:PHE:CD1	2.86	0.43
1:D:387:ASN:O	1:D:390:SER:HB2	2.19	0.43
1:E:286:GLU:O	1:E:290:LYS:HB2	2.18	0.43
1:E:322:LEU:HD13	1:E:556:MET:HE1	2.00	0.43
1:E:378:LEU:O	1:E:382:LYS:N	2.47	0.43
1:E:626:TYR:CD2	1:E:627:TYR:N	2.86	0.43
1:F:574:VAL:HG22	1:F:574:VAL:O	2.19	0.43
1:F:730:ASN:O	1:F:732:ILE:N	2.51	0.43
1:F:762:LEU:O	1:F:763:LEU:C	2.56	0.43
2:J:37:ARG:O	2:J:38:SER:C	2.56	0.43
2:J:76:MET:HA	2:J:79:THR:CG2	2.48	0.43
2:M:138:TYR:CE1	2:M:142:VAL:CG2	3.00	0.43
1:A:184:LYS:HE3	1:A:191:GLU:CB	2.47	0.43
1:A:189:ASP:C	1:A:191:GLU:N	2.72	0.43
1:A:322:LEU:HD13	1:A:556:MET:HE2	1.99	0.43
1:A:559:ARG:O	1:A:563:ALA:HB2	2.19	0.43
1:A:712:PHE:HB3	1:A:716:LYS:CG	2.47	0.43
1:A:89:ILE:HD13	1:A:175:LYS:CE	2.34	0.43
1:B:581:GLN:NE2	1:B:629:ASN:N	2.61	0.43
1:C:100:LEU:HD11	1:C:182:ILE:CG2	2.44	0.43
1:C:387:ASN:O	1:C:390:SER:HB2	2.18	0.43
1:C:481:VAL:O	1:C:482:GLU:HB2	2.18	0.43
1:D:154:ILE:HG22	1:D:155:ASN:N	2.33	0.43
1:D:190:PRO:O	1:D:191:GLU:C	2.57	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:229:PHE:O	1:D:232:GLU:HB3	2.19	0.43
1:D:403:LEU:HG	1:D:405:LEU:HD11	2.01	0.43
1:D:85:LEU:O	1:D:88:LYS:HB3	2.18	0.43
1:E:323:ASN:O	1:E:324:THR:HG22	2.17	0.43
1:E:434:LEU:CD1	1:E:435:LEU:O	2.66	0.43
1:E:549:LEU:HB2	1:E:553:GLN:HE21	1.83	0.43
1:E:653:LYS:O	1:E:655:ASN:N	2.51	0.43
1:E:667:LEU:O	1:E:668:SER:C	2.56	0.43
1:E:741:ILE:HG13	1:E:741:ILE:O	2.18	0.43
1:E:775:LEU:O	1:E:776:LEU:C	2.57	0.43
1:F:218:LEU:HD12	1:F:218:LEU:O	2.19	0.43
1:F:445:ARG:HG2	1:F:471:TRP:CZ3	2.53	0.43
1:F:474:ILE:HG22	1:F:474:ILE:O	2.19	0.43
1:F:549:LEU:HB2	1:F:553:GLN:HE21	1.84	0.43
2:H:13:LYS:NZ	2:H:65:PHE:HB3	2.33	0.43
2:I:13:LYS:HD2	2:I:13:LYS:HA	1.80	0.43
2:J:13:LYS:NZ	2:J:65:PHE:HB2	2.34	0.43
2:L:6:GLU:O	2:L:9:ILE:N	2.42	0.43
1:F:694:VAL:CG2	2:M:18:LEU:HD11	2.48	0.43
1:A:299:GLU:HA	1:A:302:LEU:HB3	2.00	0.43
1:A:389:LYS:C	1:A:391:ILE:N	2.69	0.43
1:B:453:VAL:HG12	1:B:454:GLN:N	2.33	0.43
1:B:520:PRO:CG	1:B:521:ASN:N	2.78	0.43
1:B:694:VAL:O	1:B:696:LYS:N	2.52	0.43
1:B:700:TYR:HB3	1:B:728:ALA:HB2	2.00	0.43
1:C:197:LYS:NZ	1:C:264:MET:SD	2.89	0.43
1:C:307:LEU:HD12	1:C:331:VAL:CG2	2.49	0.43
1:C:403:LEU:HG	1:C:405:LEU:HD11	2.00	0.43
1:C:761:GLN:O	1:C:765:THR:HG23	2.19	0.43
1:D:144:GLU:O	1:D:146:LYS:N	2.51	0.43
1:D:175:LYS:CB	1:D:175:LYS:NZ	2.79	0.43
1:D:228:ASN:O	1:D:229:PHE:CB	2.61	0.43
1:D:630:ARG:CD	2:K:83:GLU:HG2	2.48	0.43
1:E:122:GLU:CB	1:E:147:ARG:HG3	2.47	0.43
1:E:345:THR:HG21	1:E:491:ASP:HA	2.00	0.43
1:E:559:ARG:O	1:E:563:ALA:HB2	2.19	0.43
1:E:593:ILE:C	1:E:604:LEU:HD12	2.39	0.43
1:E:636:ALA:O	1:E:640:LYS:CA	2.67	0.43
1:E:753:LYS:O	1:E:754:GLU:C	2.57	0.43
1:F:179:LEU:HG	1:F:180:ASP:N	2.33	0.43
1:F:217:LYS:HZ1	1:F:233:ASN:HB3	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:328:PHE:N	1:F:328:PHE:CD1	2.86	0.43
1:F:434:LEU:HD13	1:F:435:LEU:N	2.33	0.43
1:F:481:VAL:O	1:F:482:GLU:HB2	2.18	0.43
1:F:661:ALA:HB2	2:M:38:SER:O	2.18	0.43
1:F:711:ILE:HG13	1:F:712:PHE:CD2	2.54	0.43
1:F:713:SER:O	1:F:714:GLN:C	2.57	0.43
1:F:700:TYR:HD1	1:F:727:GLN:C	2.22	0.43
1:F:786:GLU:O	1:F:786:GLU:HG3	2.18	0.43
2:H:143:GLN:O	2:H:144:MET:C	2.56	0.43
2:H:25:GLY:CA	2:H:65:PHE:CZ	3.00	0.43
2:I:143:GLN:O	2:I:144:MET:C	2.57	0.43
2:J:58:ASP:C	2:J:60:ASN:N	2.71	0.43
2:K:17:SER:C	2:K:19:PHE:N	2.72	0.43
2:K:4:ALA:HA	2:K:8:GLN:NE2	2.34	0.43
2:L:13:LYS:NZ	2:L:65:PHE:HB2	2.34	0.43
2:L:5:THR:O	2:L:8:GLN:HB3	2.17	0.43
2:M:73:ALA:C	2:M:75:LYS:N	2.70	0.43
1:A:144:GLU:O	1:A:146:LYS:N	2.50	0.43
1:A:325:TYR:CE1	1:A:598:PRO:CD	2.96	0.43
1:A:373:LYS:HD3	1:A:376:GLN:NE2	2.33	0.43
1:A:376:GLN:C	1:A:378:LEU:H	2.22	0.43
1:A:579:THR:C	1:A:581:GLN:N	2.70	0.43
1:B:144:GLU:O	1:B:146:LYS:N	2.51	0.43
1:B:286:GLU:O	1:B:290:LYS:HB2	2.19	0.43
1:B:632:TYR:O	1:B:633:ASN:CB	2.65	0.43
1:B:753:LYS:O	1:B:754:GLU:C	2.57	0.43
1:B:94:LEU:O	1:B:98:SER:N	2.44	0.43
1:C:179:LEU:HG	1:C:180:ASP:N	2.34	0.43
1:C:234:LEU:HD23	1:C:234:LEU:N	2.32	0.43
1:C:286:GLU:O	1:C:290:LYS:HB2	2.19	0.43
1:C:441:VAL:HG11	1:C:462:ILE:O	2.19	0.43
1:D:196:ILE:HG22	1:D:196:ILE:O	2.18	0.43
1:D:270:LYS:HA	1:D:273:LYS:CD	2.49	0.43
1:D:711:ILE:HG13	1:D:712:PHE:CD2	2.54	0.43
1:E:285:LYS:HG3	1:E:286:GLU:H	1.84	0.43
1:E:288:VAL:HG12	1:E:292:ARG:HH22	1.84	0.43
1:E:457:THR:HG23	1:E:469:PHE:H	1.83	0.43
1:E:630:ARG:HD2	2:L:83:GLU:HG2	2.00	0.43
1:F:299:GLU:HA	1:F:302:LEU:HB3	2.00	0.43
1:F:334:LEU:HD23	1:F:361:ALA:HB1	2.01	0.43
1:F:403:LEU:HG	1:F:405:LEU:HD11	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:504:ILE:CD1	1:F:504:ILE:H	2.32	0.43
1:F:540:ARG:NH1	1:F:627:TYR:CE1	2.87	0.43
1:F:567:THR:CG2	1:F:568:GLY:N	2.55	0.43
2:I:101:SER:OG	2:I:104:GLU:OE1	2.33	0.43
2:I:13:LYS:NZ	2:I:65:PHE:HB2	2.34	0.43
1:C:694:VAL:CG2	2:J:18:LEU:HD11	2.47	0.43
2:J:64:ASP:OD1	2:J:67:GLU:N	2.52	0.43
2:L:136:VAL:HG23	2:L:136:VAL:O	2.17	0.43
1:E:628:PHE:CE2	2:L:90:ARG:NH1	2.86	0.43
1:A:329:ARG:HB3	1:A:330:PRO:HD3	1.99	0.43
1:A:420:LEU:HB3	1:A:436:GLU:HB3	2.00	0.43
1:A:700:TYR:CD1	1:A:727:GLN:C	2.93	0.43
1:B:307:LEU:HD12	1:B:331:VAL:CG2	2.49	0.43
1:B:408:LEU:O	1:B:409:ARG:C	2.56	0.43
1:C:175:LYS:NZ	1:C:175:LYS:CB	2.80	0.43
1:C:682:SER:OG	1:C:683:GLY:N	2.52	0.43
1:C:762:LEU:O	1:C:763:LEU:C	2.57	0.43
1:C:775:LEU:O	1:C:776:LEU:C	2.57	0.43
1:D:112:VAL:HG12	1:D:113:GLU:N	2.22	0.43
1:D:129:ASN:HD22	1:D:129:ASN:N	2.17	0.43
1:D:106:PHE:HZ	1:D:171:TYR:HH	1.58	0.43
1:D:286:GLU:O	1:D:290:LYS:HB2	2.19	0.43
1:D:376:GLN:C	1:D:378:LEU:H	2.22	0.43
1:D:540:ARG:NH1	1:D:627:TYR:CE1	2.87	0.43
1:D:687:GLU:O	1:D:690:LYS:N	2.52	0.43
1:D:775:LEU:O	1:D:776:LEU:C	2.56	0.43
1:D:788:ASP:O	1:D:789:ASN:C	2.57	0.43
1:E:410:ILE:C	1:E:412:GLU:N	2.71	0.43
1:E:441:VAL:HG11	1:E:462:ILE:O	2.19	0.43
1:E:499:PRO:HG2	1:E:504:ILE:HD11	2.01	0.43
1:E:700:TYR:HD1	1:E:727:GLN:C	2.22	0.43
1:F:182:ILE:HD13	1:F:187:SER:HB2	2.01	0.43
1:F:269:ASN:O	1:F:273:LYS:HG3	2.18	0.43
1:F:292:ARG:HB3	1:F:293:ILE:H	1.68	0.43
2:H:37:ARG:O	2:H:38:SER:C	2.56	0.43
2:H:87:GLU:C	2:H:89:PHE:N	2.72	0.43
2:J:117:THR:HG23	2:J:120:GLU:CB	2.43	0.43
2:J:143:GLN:O	2:J:144:MET:C	2.56	0.43
2:J:15:ALA:CB	2:J:39:LEU:HD21	2.49	0.43
2:K:70:THR:O	2:K:70:THR:CG2	2.64	0.43
2:M:76:MET:HA	2:M:79:THR:CG2	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:180:ASP:HA	1:A:241:PHE:CD2	2.54	0.43
1:A:186:LYS:HE3	1:A:234:LEU:HB2	2.00	0.43
1:A:270:LYS:HA	1:A:273:LYS:CD	2.49	0.43
1:B:182:ILE:CD1	1:B:182:ILE:O	2.61	0.43
1:B:268:MET:HA	1:B:271:LEU:CG	2.49	0.43
1:B:513:TRP:CH2	1:B:517:VAL:HG11	2.54	0.43
1:B:84:ASP:HA	1:B:87:LYS:HE3	2.01	0.43
1:C:229:PHE:O	1:C:232:GLU:HB3	2.19	0.43
1:C:268:MET:HA	1:C:271:LEU:CG	2.49	0.43
1:C:376:GLN:C	1:C:378:LEU:H	2.21	0.43
1:C:410:ILE:O	1:C:412:GLU:N	2.51	0.43
1:C:583:ASN:ND2	1:C:586:PHE:O	2.46	0.43
1:C:753:LYS:O	1:C:754:GLU:C	2.58	0.43
1:D:115:LYS:O	1:D:117:LEU:N	2.51	0.43
1:E:661:ALA:HB2	2:L:38:SER:O	2.19	0.43
1:F:173:ILE:O	1:F:174:GLY:C	2.57	0.43
1:F:186:LYS:HE3	1:F:234:LEU:HB2	2.00	0.43
1:F:636:ALA:O	1:F:640:LYS:CA	2.67	0.43
1:F:775:LEU:O	1:F:776:LEU:C	2.57	0.43
2:H:126:ARG:C	2:H:128:ALA:H	2.23	0.43
1:A:709:ASN:CB	2:H:130:ILE:HG23	2.42	0.43
2:I:30:LYS:H	2:I:30:LYS:CD	2.21	0.43
2:L:138:TYR:CE1	2:L:142:VAL:CG2	3.00	0.43
1:F:630:ARG:HD2	2:M:83:GLU:HG2	2.00	0.43
1:A:110:ASP:O	1:A:111:LEU:C	2.58	0.42
1:A:549:LEU:HB2	1:A:553:GLN:HE21	1.83	0.42
1:A:775:LEU:O	1:A:776:LEU:C	2.57	0.42
1:A:85:LEU:O	1:A:88:LYS:HB3	2.19	0.42
1:B:170:TYR:HA	1:B:173:ILE:CG2	2.49	0.42
1:B:285:LYS:HG3	1:B:286:GLU:H	1.84	0.42
1:B:345:THR:HG21	1:B:491:ASP:HA	1.99	0.42
1:B:653:LYS:O	1:B:655:ASN:N	2.52	0.42
1:C:788:ASP:O	1:C:789:ASN:C	2.57	0.42
1:D:172:GLU:HB3	1:D:246:SER:CB	2.50	0.42
1:D:268:MET:HA	1:D:271:LEU:CG	2.49	0.42
1:D:593:ILE:C	1:D:604:LEU:HD12	2.40	0.42
1:D:325:TYR:CZ	1:D:598:PRO:HD3	2.54	0.42
1:D:94:LEU:O	1:D:98:SER:N	2.45	0.42
1:E:154:ILE:HG22	1:E:155:ASN:N	2.33	0.42
1:E:229:PHE:O	1:E:232:GLU:HB3	2.19	0.42
1:F:282:SER:CA	1:F:285:LYS:HG2	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:600:GLY:O	1:F:601:GLU:C	2.58	0.42
1:F:722:ILE:HG12	1:F:763:LEU:HB2	2.01	0.42
1:F:788:ASP:O	1:F:789:ASN:C	2.58	0.42
2:H:30:LYS:H	2:H:30:LYS:CD	2.20	0.42
2:H:58:ASP:C	2:H:60:ASN:N	2.70	0.42
2:H:64:ASP:OD1	2:H:67:GLU:N	2.52	0.42
2:J:21:LYS:O	2:J:23:GLY:N	2.38	0.42
1:C:630:ARG:HD2	2:J:83:GLU:HG2	2.00	0.42
2:K:138:TYR:CE1	2:K:142:VAL:CG2	3.01	0.42
2:K:9:ILE:CD1	2:K:69:LEU:HD11	2.49	0.42
1:A:129:ASN:HD22	1:A:129:ASN:N	2.17	0.42
1:A:172:GLU:CG	1:A:246:SER:HA	2.48	0.42
1:A:400:LYS:HA	1:A:476:VAL:O	2.19	0.42
1:A:401:ILE:HD11	1:A:487:PRO:HD3	2.02	0.42
1:A:711:ILE:HG13	1:A:712:PHE:CD2	2.54	0.42
1:A:71:PHE:CD2	1:A:73:ASN:HB2	2.54	0.42
1:B:220:LEU:HG	1:B:223:LYS:CB	2.49	0.42
1:B:217:LYS:HZ1	1:B:233:ASN:HB3	1.83	0.42
1:B:327:LEU:CD1	1:B:327:LEU:N	2.83	0.42
1:B:420:LEU:HB3	1:B:436:GLU:HB3	2.01	0.42
1:C:329:ARG:HB3	1:C:330:PRO:HD3	2.00	0.42
1:C:559:ARG:O	1:C:563:ALA:HB2	2.19	0.42
1:C:574:VAL:HG22	1:C:574:VAL:O	2.19	0.42
1:C:712:PHE:HB3	1:C:716:LYS:CG	2.47	0.42
1:D:131:ARG:HG3	1:D:243:LEU:CD2	2.46	0.42
1:D:182:ILE:CD1	1:D:182:ILE:O	2.61	0.42
1:D:217:LYS:HB3	1:D:236:GLU:OE1	2.20	0.42
1:D:252:ASP:O	1:D:254:ARG:HD2	2.19	0.42
1:D:325:TYR:CE1	1:D:598:PRO:CD	2.96	0.42
1:D:329:ARG:HB3	1:D:330:PRO:HD3	2.01	0.42
1:D:559:ARG:O	1:D:563:ALA:HB2	2.19	0.42
1:D:557:LEU:CD2	1:D:575:VAL:HG12	2.44	0.42
1:D:792:VAL:HG12	1:D:796:ILE:CD1	2.42	0.42
1:D:79:ILE:C	1:D:81:GLN:N	2.70	0.42
1:E:162:ASN:O	1:E:163:SER:C	2.58	0.42
1:E:170:TYR:HA	1:E:173:ILE:CG2	2.49	0.42
1:E:182:ILE:HD13	1:E:187:SER:HB2	2.01	0.42
1:E:413:LEU:CB	1:E:419:ILE:HG12	2.49	0.42
1:E:453:VAL:HG12	1:E:454:GLN:N	2.34	0.42
1:E:559:ARG:HG3	1:E:559:ARG:HH11	1.82	0.42
1:E:625:LEU:HD12	1:E:625:LEU:C	2.39	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:737:LYS:CA	1:E:737:LYS:HE2	2.38	0.42
1:F:268:MET:HA	1:F:271:LEU:CG	2.49	0.42
1:F:329:ARG:HB3	1:F:330:PRO:HD3	2.00	0.42
1:F:420:LEU:HB3	1:F:436:GLU:HB3	2.01	0.42
2:I:143:GLN:HE21	2:I:143:GLN:HB3	1.55	0.42
2:I:64:ASP:OD1	2:I:67:GLU:N	2.52	0.42
2:J:111:ASN:C	2:J:113:GLY:N	2.73	0.42
2:K:13:LYS:NZ	2:K:65:PHE:HB2	2.34	0.42
1:A:170:TYR:HA	1:A:173:ILE:CG2	2.49	0.42
1:A:378:LEU:HD12	1:A:378:LEU:HA	1.91	0.42
1:A:585:GLU:HB3	1:A:586:PHE:HD1	1.84	0.42
1:A:325:TYR:CZ	1:A:598:PRO:HD3	2.53	0.42
1:A:776:LEU:C	1:A:776:LEU:CD2	2.88	0.42
1:A:788:ASP:O	1:A:789:ASN:C	2.58	0.42
1:B:154:ILE:HG22	1:B:155:ASN:N	2.33	0.42
1:B:600:GLY:O	1:B:601:GLU:C	2.58	0.42
1:B:296:LEU:CD2	1:B:606:LYS:HE2	2.49	0.42
1:B:636:ALA:O	1:B:640:LYS:CA	2.67	0.42
1:B:722:ILE:HG12	1:B:763:LEU:HB2	2.02	0.42
1:B:762:LEU:O	1:B:763:LEU:C	2.56	0.42
1:B:85:LEU:O	1:B:88:LYS:HB3	2.20	0.42
1:B:97:TYR:O	1:B:99:GLU:N	2.53	0.42
1:C:420:LEU:HB3	1:C:436:GLU:HB3	2.01	0.42
1:C:85:LEU:O	1:C:88:LYS:HB3	2.19	0.42
1:D:389:LYS:C	1:D:391:ILE:N	2.70	0.42
1:D:700:TYR:CD1	1:D:727:GLN:C	2.93	0.42
1:E:697:ILE:HG21	1:E:732:ILE:CD1	2.40	0.42
1:F:694:VAL:O	1:F:696:LYS:N	2.52	0.42
1:F:776:LEU:CD2	1:F:776:LEU:C	2.88	0.42
2:J:36:MET:HE1	2:J:43:PRO:HG3	1.95	0.42
2:K:16:PHE:HA	2:K:35:VAL:HG11	2.01	0.42
2:M:111:ASN:C	2:M:113:GLY:N	2.73	0.42
1:A:360:VAL:O	1:A:361:ALA:C	2.58	0.42
1:A:413:LEU:HB2	1:A:419:ILE:HD11	2.01	0.42
1:A:474:ILE:O	1:A:474:ILE:HG22	2.18	0.42
1:A:625:LEU:HD12	1:A:626:TYR:N	2.35	0.42
1:A:636:ALA:O	1:A:640:LYS:CA	2.67	0.42
1:B:252:ASP:O	1:B:254:ARG:HD2	2.20	0.42
1:B:349:ASN:HD22	1:B:350:VAL:N	2.17	0.42
1:B:499:PRO:HG2	1:B:504:ILE:HD11	2.02	0.42
1:B:559:ARG:O	1:B:563:ALA:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:585:GLU:HB3	1:B:586:PHE:HD1	1.83	0.42
1:B:788:ASP:O	1:B:789:ASN:C	2.57	0.42
1:C:292:ARG:HB3	1:C:293:ILE:H	1.69	0.42
1:C:513:TRP:CH2	1:C:517:VAL:HG11	2.55	0.42
1:C:557:LEU:CD2	1:C:575:VAL:HG12	2.44	0.42
1:C:593:ILE:C	1:C:604:LEU:HD12	2.39	0.42
1:C:706:ASN:O	1:C:709:ASN:HB2	2.20	0.42
1:D:142:VAL:HG22	1:D:154:ILE:CG2	2.45	0.42
1:D:197:LYS:CB	1:D:197:LYS:HZ2	2.32	0.42
1:D:197:LYS:NZ	1:D:264:MET:SD	2.92	0.42
1:D:549:LEU:HB2	1:D:553:GLN:HE21	1.83	0.42
1:D:731:GLU:O	1:D:734:ASN:HB3	2.19	0.42
1:E:186:LYS:HE3	1:E:234:LEU:HB2	2.01	0.42
1:E:252:ASP:O	1:E:254:ARG:HD2	2.20	0.42
1:E:325:TYR:CZ	1:E:598:PRO:HD3	2.53	0.42
1:E:713:SER:O	1:E:714:GLN:C	2.57	0.42
1:E:788:ASP:O	1:E:789:ASN:C	2.57	0.42
1:F:110:ASP:O	1:F:111:LEU:C	2.58	0.42
1:F:359:PRO:HG2	1:F:360:VAL:H	1.85	0.42
1:F:741:ILE:HG13	1:F:741:ILE:O	2.18	0.42
1:F:655:ASN:O	1:F:759:GLN:NE2	2.52	0.42
2:J:138:TYR:CE1	2:J:142:VAL:CG2	3.01	0.42
1:D:694:VAL:CG2	2:K:18:LEU:HD11	2.49	0.42
1:D:661:ALA:HB2	2:K:38:SER:O	2.19	0.42
1:A:236:GLU:HA	1:A:239:HIS:HD2	1.85	0.42
1:A:268:MET:HA	1:A:271:LEU:CG	2.49	0.42
1:A:441:VAL:HG11	1:A:462:ILE:O	2.18	0.42
1:A:457:THR:HG23	1:A:469:PHE:H	1.83	0.42
1:A:667:LEU:O	1:A:668:SER:C	2.56	0.42
1:B:299:GLU:HA	1:B:302:LEU:HB3	2.00	0.42
1:B:441:VAL:HG11	1:B:462:ILE:O	2.19	0.42
1:B:789:ASN:O	1:B:792:VAL:HB	2.20	0.42
1:C:220:LEU:HG	1:C:223:LYS:CB	2.49	0.42
1:C:431:LYS:O	1:C:432:TYR:CD2	2.69	0.42
1:C:322:LEU:HD13	1:C:556:MET:HE1	2.02	0.42
1:D:170:TYR:HA	1:D:173:ILE:CG2	2.49	0.42
1:D:184:LYS:CE	1:D:193:LEU:HD12	2.37	0.42
1:D:172:GLU:CG	1:D:246:SER:HA	2.48	0.42
1:D:254:ARG:CD	1:D:254:ARG:H	2.24	0.42
1:D:368:GLN:HG3	1:D:383:GLY:C	2.40	0.42
1:D:405:LEU:HD13	1:D:453:VAL:CG2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:500:SER:O	1:D:503:GLU:N	2.37	0.42
1:D:699:GLY:O	1:D:702:SER:N	2.52	0.42
1:E:262:PRO:HG2	1:E:263:ASP:H	1.83	0.42
1:E:299:GLU:HA	1:E:302:LEU:HB3	1.99	0.42
1:E:576:ASN:N	1:E:576:ASN:ND2	2.66	0.42
1:E:632:TYR:O	1:E:633:ASN:CB	2.67	0.42
1:E:699:GLY:O	1:E:702:SER:N	2.52	0.42
1:E:700:TYR:HB3	1:E:728:ALA:HB2	2.01	0.42
1:E:765:THR:HG22	1:E:769:SER:OG	2.20	0.42
1:F:184:LYS:HE3	1:F:191:GLU:CB	2.47	0.42
1:F:180:ASP:HA	1:F:241:PHE:CD2	2.55	0.42
1:F:754:GLU:HG2	1:F:758:ASN:HD21	1.84	0.42
2:I:126:ARG:C	2:I:128:ALA:H	2.23	0.42
2:I:4:ALA:HA	2:I:8:GLN:NE2	2.35	0.42
2:K:126:ARG:C	2:K:128:ALA:H	2.23	0.42
2:K:64:ASP:OD1	2:K:67:GLU:N	2.53	0.42
2:L:15:ALA:CB	2:L:39:LEU:HD21	2.48	0.42
2:L:58:ASP:C	2:L:60:ASN:N	2.71	0.42
2:L:4:ALA:HA	2:L:8:GLN:NE2	2.35	0.42
2:M:17:SER:C	2:M:19:PHE:N	2.72	0.42
1:A:170:TYR:HA	1:A:173:ILE:HG22	2.02	0.42
1:A:196:ILE:HG22	1:A:196:ILE:O	2.19	0.42
1:A:218:LEU:HD12	1:A:218:LEU:O	2.19	0.42
1:A:242:SER:C	1:A:244:ALA:H	2.23	0.42
1:A:405:LEU:N	1:A:405:LEU:CD1	2.83	0.42
1:B:110:ASP:O	1:B:111:LEU:C	2.58	0.42
1:B:175:LYS:HZ3	1:B:175:LYS:HB2	1.84	0.42
1:B:199:LEU:O	1:B:201:ASP:N	2.52	0.42
1:B:520:PRO:O	1:B:521:ASN:C	2.58	0.42
1:B:687:GLU:O	1:B:690:LYS:N	2.52	0.42
1:B:79:ILE:C	1:B:81:GLN:N	2.69	0.42
1:C:172:GLU:HB3	1:C:246:SER:CB	2.50	0.42
1:C:252:ASP:O	1:C:254:ARG:HD2	2.20	0.42
1:C:585:GLU:HB3	1:C:586:PHE:HD1	1.83	0.42
1:C:83:GLN:C	1:C:85:LEU:N	2.71	0.42
1:D:170:TYR:HA	1:D:173:ILE:HG22	2.02	0.42
1:D:322:LEU:HD13	1:D:556:MET:HE1	2.02	0.42
1:D:359:PRO:HG2	1:D:360:VAL:H	1.85	0.42
1:D:441:VAL:HG11	1:D:462:ILE:O	2.19	0.42
1:D:721:SER:O	1:D:722:ILE:C	2.58	0.42
1:E:71:PHE:HD1	1:E:108:ASP:OD1	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:110:ASP:O	1:E:112:VAL:N	2.53	0.42
1:E:307:LEU:HD12	1:E:331:VAL:CG2	2.49	0.42
1:E:376:GLN:C	1:E:378:LEU:H	2.22	0.42
1:E:687:GLU:O	1:E:690:LYS:N	2.53	0.42
1:E:762:LEU:O	1:E:763:LEU:C	2.56	0.42
1:E:789:ASN:O	1:E:792:VAL:HB	2.20	0.42
1:E:89:ILE:HG13	1:E:89:ILE:H	1.56	0.42
1:F:170:TYR:HA	1:F:173:ILE:CG2	2.50	0.42
1:F:197:LYS:CA	1:F:197:LYS:HZ2	2.33	0.42
1:F:229:PHE:O	1:F:232:GLU:HB3	2.19	0.42
1:F:559:ARG:O	1:F:563:ALA:HB2	2.19	0.42
1:F:653:LYS:O	1:F:655:ASN:N	2.53	0.42
1:F:753:LYS:O	1:F:754:GLU:C	2.56	0.42
1:F:770:ASN:HD22	1:F:770:ASN:HA	1.67	0.42
2:H:17:SER:C	2:H:19:PHE:N	2.73	0.42
1:B:694:VAL:CG2	2:I:18:LEU:HD11	2.50	0.42
2:M:143:GLN:O	2:M:144:MET:C	2.56	0.42
1:A:513:TRP:CH2	1:A:517:VAL:HG11	2.55	0.42
1:A:653:LYS:O	1:A:654:ILE:C	2.58	0.42
1:A:687:GLU:O	1:A:690:LYS:N	2.52	0.42
1:A:757:THR:HG22	1:A:758:ASN:N	2.34	0.42
1:A:761:GLN:O	1:A:765:THR:HG23	2.20	0.42
1:B:115:LYS:HZ2	1:B:115:LYS:HB3	1.84	0.42
1:B:400:LYS:HA	1:B:476:VAL:O	2.20	0.42
1:B:551:ASN:HD22	1:B:551:ASN:HA	1.64	0.42
1:C:115:LYS:O	1:C:117:LEU:N	2.52	0.42
1:C:409:ARG:CD	1:C:413:LEU:HD21	2.50	0.42
1:C:551:ASN:HA	1:C:551:ASN:HD22	1.65	0.42
1:C:645:TRP:O	1:C:646:THR:C	2.58	0.42
1:C:699:GLY:O	1:C:702:SER:N	2.53	0.42
1:C:738:SER:HB3	1:C:739:LYS:H	1.59	0.42
1:C:776:LEU:CD2	1:C:776:LEU:C	2.88	0.42
1:D:292:ARG:HB3	1:D:293:ILE:H	1.68	0.42
1:D:585:GLU:HB3	1:D:586:PHE:HD1	1.84	0.42
1:D:625:LEU:C	1:D:625:LEU:HD12	2.39	0.42
1:D:762:LEU:O	1:D:763:LEU:C	2.57	0.42
1:E:474:ILE:O	1:E:474:ILE:HG22	2.18	0.42
1:E:682:SER:OG	1:E:683:GLY:N	2.49	0.42
1:F:115:LYS:HZ1	1:F:116:GLU:CG	2.28	0.42
1:F:307:LEU:HD12	1:F:331:VAL:CG2	2.49	0.42
1:F:349:ASN:HD22	1:F:350:VAL:N	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:376:GLN:C	1:F:378:LEU:H	2.22	0.42
1:F:409:ARG:CD	1:F:413:LEU:HD21	2.50	0.42
1:F:513:TRP:CH2	1:F:517:VAL:HG11	2.55	0.42
1:F:789:ASN:O	1:F:792:VAL:HB	2.20	0.42
2:H:117:THR:HG23	2:H:120:GLU:CB	2.43	0.42
2:L:143:GLN:HB3	2:L:143:GLN:HE21	1.53	0.42
2:M:13:LYS:C	2:M:15:ALA:N	2.73	0.42
1:A:110:ASP:O	1:A:112:VAL:N	2.53	0.42
1:A:349:ASN:HD22	1:A:350:VAL:N	2.17	0.42
1:A:600:GLY:O	1:A:601:GLU:C	2.57	0.42
1:B:110:ASP:O	1:B:112:VAL:N	2.53	0.42
1:B:269:ASN:O	1:B:273:LYS:HG3	2.19	0.42
1:B:700:TYR:CD1	1:B:727:GLN:C	2.93	0.42
1:B:712:PHE:HB3	1:B:716:LYS:CG	2.47	0.42
1:B:786:GLU:O	1:B:786:GLU:HG3	2.19	0.42
1:C:360:VAL:O	1:C:361:ALA:C	2.57	0.42
1:D:718:ARG:HH12	1:D:767:GLN:HE21	1.68	0.42
1:D:89:ILE:CG2	1:D:93:VAL:HG11	2.39	0.42
1:E:180:ASP:HA	1:E:241:PHE:CD2	2.55	0.42
1:E:292:ARG:CD	1:E:617:LYS:HE3	2.50	0.42
1:E:325:TYR:CE1	1:E:598:PRO:CD	2.97	0.42
1:E:600:GLY:O	1:E:601:GLU:C	2.58	0.42
1:E:757:THR:HG22	1:E:758:ASN:N	2.35	0.42
1:E:94:LEU:O	1:E:98:SER:N	2.45	0.42
1:F:148:GLU:CG	1:F:149:THR:H	2.31	0.42
1:F:162:ASN:O	1:F:163:SER:C	2.58	0.42
1:F:410:ILE:C	1:F:412:GLU:N	2.71	0.42
1:F:322:LEU:HD13	1:F:556:MET:HE2	2.02	0.42
1:F:576:ASN:N	1:F:576:ASN:ND2	2.67	0.42
1:F:699:GLY:O	1:F:702:SER:N	2.53	0.42
2:H:16:PHE:HA	2:H:35:VAL:HG11	2.02	0.42
2:K:86:ARG:HB2	2:K:86:ARG:HE	1.69	0.42
1:A:115:LYS:O	1:A:117:LEU:N	2.51	0.42
1:A:409:ARG:CD	1:A:413:LEU:HD21	2.50	0.42
1:A:499:PRO:HG2	1:A:504:ILE:HD11	2.02	0.42
1:A:709:ASN:HA	1:A:709:ASN:HD22	1.59	0.42
1:B:292:ARG:CD	1:B:617:LYS:HE3	2.50	0.42
1:B:405:LEU:N	1:B:405:LEU:CD1	2.83	0.42
1:B:431:LYS:O	1:B:432:TYR:CD2	2.68	0.42
1:B:711:ILE:HG13	1:B:712:PHE:CD2	2.54	0.42
1:B:754:GLU:HG2	1:B:758:ASN:HD21	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:776:LEU:CD2	1:B:776:LEU:C	2.88	0.42
1:C:218:LEU:O	1:C:218:LEU:HD12	2.20	0.42
1:C:349:ASN:HD22	1:C:350:VAL:N	2.17	0.42
1:C:413:LEU:HB2	1:C:419:ILE:HD11	2.01	0.42
1:C:495:PHE:C	1:C:495:PHE:CD1	2.93	0.42
1:C:520:PRO:CG	1:C:521:ASN:N	2.79	0.42
1:C:700:TYR:CD1	1:C:727:GLN:C	2.93	0.42
1:D:180:ASP:HA	1:D:241:PHE:CD2	2.55	0.42
1:D:694:VAL:O	1:D:696:LYS:N	2.52	0.42
1:E:282:SER:CA	1:E:285:LYS:HG2	2.48	0.42
1:E:368:GLN:HG3	1:E:383:GLY:C	2.40	0.42
1:E:645:TRP:O	1:E:646:THR:C	2.58	0.42
1:F:197:LYS:NZ	1:F:264:MET:SD	2.90	0.42
1:F:360:VAL:O	1:F:361:ALA:C	2.58	0.42
1:F:401:ILE:HD11	1:F:487:PRO:HD3	2.02	0.42
1:F:325:TYR:CZ	1:F:598:PRO:HD3	2.54	0.42
1:F:296:LEU:CD2	1:F:606:LYS:HE2	2.50	0.42
1:F:645:TRP:O	1:F:646:THR:C	2.59	0.42
1:F:700:TYR:HB3	1:F:728:ALA:HB2	2.02	0.42
2:H:13:LYS:C	2:H:15:ALA:N	2.72	0.42
2:H:13:LYS:NZ	2:H:65:PHE:HB2	2.35	0.42
2:I:116:LEU:HD13	2:I:121:VAL:CG2	2.45	0.42
2:I:16:PHE:HA	2:I:35:VAL:HG11	2.02	0.42
2:J:140:GLU:H	2:J:140:GLU:HG2	1.45	0.42
2:K:111:ASN:C	2:K:113:GLY:N	2.73	0.42
2:K:117:THR:HG23	2:K:120:GLU:CB	2.43	0.42
2:K:28:THR:HB	2:K:30:LYS:HZ1	1.84	0.42
2:M:106:ARG:HB2	2:M:121:VAL:HG21	2.01	0.42
1:A:307:LEU:HD12	1:A:331:VAL:CG2	2.50	0.42
1:A:359:PRO:HG2	1:A:360:VAL:H	1.84	0.42
1:A:753:LYS:O	1:A:754:GLU:C	2.57	0.42
1:A:762:LEU:O	1:A:764:LEU:N	2.53	0.42
1:B:248:TYR:O	1:B:248:TYR:CD2	2.69	0.42
1:B:282:SER:HA	1:B:285:LYS:CG	2.50	0.42
1:B:629:ASN:HD22	1:B:630:ARG:H	1.64	0.42
1:B:731:GLU:O	1:B:734:ASN:HB3	2.20	0.42
1:C:165:GLN:OE1	1:C:252:ASP:HB3	2.20	0.42
1:C:325:TYR:CE1	1:C:598:PRO:CD	2.96	0.42
1:C:453:VAL:HG12	1:C:454:GLN:N	2.33	0.42
1:D:434:LEU:HD13	1:D:435:LEU:H	1.76	0.42
1:D:574:VAL:HG22	1:D:574:VAL:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:581:GLN:NE2	1:D:629:ASN:N	2.62	0.42
1:D:776:LEU:C	1:D:776:LEU:CD2	2.88	0.42
1:E:334:LEU:HD23	1:E:361:ALA:HB1	2.02	0.42
1:E:513:TRP:CH2	1:E:517:VAL:HG11	2.55	0.42
1:E:711:ILE:HG13	1:E:712:PHE:CD2	2.54	0.42
1:E:761:GLN:O	1:E:765:THR:HG23	2.20	0.42
1:E:84:ASP:HA	1:E:87:LYS:HE3	2.02	0.42
1:F:220:LEU:HG	1:F:223:LYS:CB	2.49	0.42
1:F:252:ASP:O	1:F:254:ARG:HD2	2.20	0.42
1:F:368:GLN:HB2	1:F:384:ASN:OD1	2.20	0.42
1:F:368:GLN:HG3	1:F:383:GLY:C	2.40	0.42
1:F:401:ILE:CG2	1:F:485:LEU:HB3	2.50	0.42
2:K:37:ARG:O	2:K:38:SER:C	2.57	0.42
2:L:17:SER:C	2:L:19:PHE:N	2.73	0.42
1:F:664:ILE:CG2	2:M:15:ALA:HB2	2.44	0.42
2:M:39:LEU:HA	2:M:39:LEU:HD22	1.79	0.42
2:M:4:ALA:HA	2:M:8:GLN:NE2	2.34	0.42
1:A:154:ILE:HG22	1:A:155:ASN:N	2.34	0.41
1:A:175:LYS:CB	1:A:175:LYS:NZ	2.79	0.41
1:A:197:LYS:HB3	1:A:197:LYS:HZ2	1.83	0.41
1:A:368:GLN:HG3	1:A:383:GLY:C	2.40	0.41
1:A:373:LYS:O	1:A:380:VAL:CG2	2.68	0.41
1:B:170:TYR:HA	1:B:173:ILE:HG22	2.02	0.41
1:B:182:ILE:HD13	1:B:187:SER:HB2	2.01	0.41
1:B:217:LYS:HB3	1:B:236:GLU:OE1	2.20	0.41
1:B:413:LEU:HB2	1:B:419:ILE:HD11	2.02	0.41
1:B:409:ARG:CD	1:B:413:LEU:HD21	2.50	0.41
1:C:450:ASN:ND2	1:C:452:GLU:HG3	2.35	0.41
1:C:615:ILE:HD12	1:C:645:TRP:CH2	2.49	0.41
1:D:282:SER:CA	1:D:285:LYS:HG2	2.48	0.41
1:D:349:ASN:HD22	1:D:350:VAL:N	2.17	0.41
1:D:401:ILE:HD11	1:D:487:PRO:HD3	2.02	0.41
1:D:645:TRP:O	1:D:646:THR:C	2.59	0.41
1:D:757:THR:O	1:D:760:VAL:N	2.51	0.41
1:E:191:GLU:O	1:E:193:LEU:N	2.53	0.41
1:E:360:VAL:O	1:E:361:ALA:C	2.58	0.41
1:E:401:ILE:HD11	1:E:487:PRO:HD3	2.02	0.41
1:E:443:GLU:CG	1:E:458:LYS:HG3	2.50	0.41
1:E:730:ASN:C	1:E:732:ILE:N	2.73	0.41
1:E:776:LEU:C	1:E:776:LEU:CD2	2.88	0.41
1:F:110:ASP:O	1:F:112:VAL:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:311:HIS:O	1:F:312:ALA:C	2.59	0.41
1:F:434:LEU:CD1	1:F:434:LEU:C	2.88	0.41
1:F:700:TYR:CD1	1:F:727:GLN:C	2.93	0.41
2:H:27:ILE:HD12	2:H:32:LEU:HA	2.02	0.41
2:M:16:PHE:HA	2:M:35:VAL:HG11	2.02	0.41
1:A:252:ASP:O	1:A:254:ARG:HD2	2.20	0.41
1:A:282:SER:CA	1:A:285:LYS:HG2	2.48	0.41
1:A:722:ILE:HG12	1:A:763:LEU:HB2	2.02	0.41
1:A:789:ASN:O	1:A:792:VAL:HB	2.20	0.41
1:B:129:ASN:HD22	1:B:129:ASN:N	2.17	0.41
1:B:405:LEU:HD13	1:B:453:VAL:CG2	2.49	0.41
1:C:129:ASN:N	1:C:129:ASN:HD22	2.17	0.41
1:C:405:LEU:HD13	1:C:453:VAL:CG2	2.49	0.41
1:C:405:LEU:CD1	1:C:405:LEU:N	2.83	0.41
1:C:401:ILE:HD11	1:C:487:PRO:HD3	2.01	0.41
1:C:71:PHE:CD2	1:C:73:ASN:HB2	2.55	0.41
1:C:789:ASN:O	1:C:792:VAL:HB	2.20	0.41
1:C:89:ILE:CG2	1:C:90:PRO:HD2	2.48	0.41
1:D:165:GLN:OE1	1:D:252:ASP:HB3	2.20	0.41
1:D:182:ILE:HD13	1:D:187:SER:HB2	2.01	0.41
1:D:197:LYS:HZ2	1:D:197:LYS:HB3	1.84	0.41
1:D:248:TYR:O	1:D:248:TYR:CD2	2.69	0.41
1:D:311:HIS:O	1:D:312:ALA:C	2.58	0.41
1:D:543:ASP:OD2	1:D:554:LYS:NZ	2.39	0.41
1:D:615:ILE:HD12	1:D:645:TRP:CH2	2.48	0.41
1:D:636:ALA:O	1:D:640:LYS:CA	2.67	0.41
1:D:722:ILE:HG12	1:D:763:LEU:HB2	2.02	0.41
1:D:700:TYR:HB3	1:D:728:ALA:HB2	2.02	0.41
1:D:789:ASN:O	1:D:792:VAL:HB	2.20	0.41
1:E:218:LEU:HD12	1:E:218:LEU:O	2.20	0.41
1:E:220:LEU:HG	1:E:223:LYS:CB	2.48	0.41
1:E:311:HIS:O	1:E:312:ALA:C	2.59	0.41
1:E:359:PRO:HG2	1:E:360:VAL:H	1.85	0.41
1:E:420:LEU:HB3	1:E:436:GLU:HB3	2.01	0.41
1:F:129:ASN:N	1:F:129:ASN:HD22	2.16	0.41
1:F:400:LYS:HA	1:F:476:VAL:O	2.20	0.41
1:F:316:LYS:CG	1:F:600:GLY:HA2	2.46	0.41
1:F:687:GLU:O	1:F:690:LYS:N	2.52	0.41
1:F:85:LEU:O	1:F:88:LYS:HB3	2.20	0.41
2:H:9:ILE:CD1	2:H:69:LEU:HD11	2.50	0.41
2:I:9:ILE:CD1	2:I:69:LEU:HD11	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:9:ILE:CD1	2:J:69:LEU:HD11	2.50	0.41
2:K:114:GLU:OE2	2:K:115:LYS:N	2.53	0.41
2:K:27:ILE:HD12	2:K:32:LEU:HA	2.02	0.41
1:D:630:ARG:HD2	2:K:83:GLU:HG2	2.01	0.41
2:L:126:ARG:C	2:L:128:ALA:H	2.24	0.41
1:A:285:LYS:HG3	1:A:286:GLU:H	1.84	0.41
1:A:353:LYS:H	1:A:368:GLN:HE22	1.69	0.41
1:A:757:THR:O	1:A:760:VAL:N	2.50	0.41
1:B:242:SER:C	1:B:244:ALA:H	2.24	0.41
1:B:276:PHE:O	1:B:280:SER:HB2	2.20	0.41
1:B:353:LYS:H	1:B:368:GLN:HE22	1.68	0.41
1:B:413:LEU:O	1:B:419:ILE:HG12	2.21	0.41
1:B:625:LEU:HD12	1:B:625:LEU:C	2.39	0.41
1:B:645:TRP:O	1:B:646:THR:C	2.57	0.41
1:B:721:SER:O	1:B:722:ILE:C	2.58	0.41
1:B:700:TYR:CE1	1:B:727:GLN:HB3	2.55	0.41
1:C:119:ASP:O	1:C:120:LEU:C	2.59	0.41
1:C:170:TYR:HA	1:C:173:ILE:CG2	2.50	0.41
1:C:368:GLN:HG3	1:C:383:GLY:C	2.40	0.41
1:C:413:LEU:CB	1:C:419:ILE:HG12	2.49	0.41
1:C:687:GLU:O	1:C:690:LYS:N	2.52	0.41
1:C:721:SER:O	1:C:722:ILE:C	2.59	0.41
1:C:718:ARG:HH12	1:C:767:GLN:HE21	1.68	0.41
1:D:110:ASP:O	1:D:111:LEU:C	2.59	0.41
1:D:236:GLU:HA	1:D:239:HIS:HD2	1.86	0.41
1:D:420:LEU:HB3	1:D:436:GLU:HB3	2.00	0.41
1:D:754:GLU:HG2	1:D:758:ASN:HD21	1.83	0.41
1:E:197:LYS:O	1:E:197:LYS:NZ	2.52	0.41
1:E:217:LYS:HB3	1:E:236:GLU:OE1	2.20	0.41
1:E:349:ASN:HD22	1:E:350:VAL:N	2.18	0.41
1:E:405:LEU:CD1	1:E:405:LEU:N	2.83	0.41
1:E:700:TYR:CD1	1:E:727:GLN:C	2.93	0.41
1:E:700:TYR:CE1	1:E:727:GLN:HB3	2.56	0.41
1:E:718:ARG:NH1	1:E:767:GLN:NE2	2.67	0.41
1:F:172:GLU:HB3	1:F:246:SER:CB	2.49	0.41
2:H:114:GLU:OE2	2:H:115:LYS:N	2.53	0.41
2:H:106:ARG:HB2	2:H:121:VAL:HG21	2.01	0.41
2:H:6:GLU:O	2:H:9:ILE:N	2.44	0.41
2:J:4:ALA:HA	2:J:8:GLN:NE2	2.34	0.41
2:L:64:ASP:OD1	2:L:67:GLU:N	2.53	0.41
1:A:164:GLU:C	1:A:166:SER:N	2.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:172:GLU:HB3	1:A:246:SER:CB	2.51	0.41
1:A:165:GLN:OE1	1:A:252:ASP:HB3	2.20	0.41
1:A:405:LEU:HD13	1:A:453:VAL:CG2	2.50	0.41
1:A:413:LEU:O	1:A:419:ILE:HG12	2.20	0.41
1:A:530:THR:HG21	2:H:145:MET:HE3	2.02	0.41
1:A:700:TYR:CE1	1:A:727:GLN:HB3	2.55	0.41
1:A:89:ILE:CG2	1:A:90:PRO:HD2	2.48	0.41
1:B:197:LYS:HB3	1:B:197:LYS:HZ2	1.84	0.41
1:B:282:SER:CA	1:B:285:LYS:HG2	2.48	0.41
1:B:360:VAL:O	1:B:361:ALA:C	2.58	0.41
1:B:747:ASN:O	1:B:748:TYR:C	2.59	0.41
1:C:162:ASN:O	1:C:163:SER:C	2.58	0.41
1:C:180:ASP:HA	1:C:241:PHE:CD2	2.55	0.41
1:C:236:GLU:HA	1:C:239:HIS:HD2	1.85	0.41
1:C:97:TYR:O	1:C:99:GLU:N	2.53	0.41
1:D:495:PHE:C	1:D:495:PHE:CD1	2.94	0.41
1:D:503:GLU:OE1	1:D:506:LYS:HD3	2.20	0.41
1:D:513:TRP:CH2	1:D:517:VAL:HG11	2.55	0.41
1:D:576:ASN:N	1:D:576:ASN:ND2	2.67	0.41
1:D:628:PHE:CD1	1:D:645:TRP:CD1	3.08	0.41
1:D:761:GLN:O	1:D:765:THR:HG23	2.20	0.41
1:D:89:ILE:CG2	1:D:90:PRO:HD2	2.47	0.41
1:E:190:PRO:O	1:E:191:GLU:C	2.58	0.41
1:F:453:VAL:HG12	1:F:454:GLN:N	2.34	0.41
1:F:495:PHE:C	1:F:495:PHE:CD1	2.94	0.41
1:F:700:TYR:CE1	1:F:727:GLN:HB3	2.55	0.41
1:F:761:GLN:O	1:F:765:THR:HG23	2.21	0.41
2:H:32:LEU:HD22	2:H:63:ILE:HG21	2.03	0.41
2:J:106:ARG:HB2	2:J:121:VAL:HG21	2.02	0.41
1:A:217:LYS:HB3	1:A:236:GLU:OE1	2.20	0.41
1:A:690:LYS:HZ3	1:A:741:ILE:HG23	1.86	0.41
1:A:84:ASP:HA	1:A:87:LYS:HE3	2.02	0.41
1:A:97:TYR:O	1:A:99:GLU:N	2.54	0.41
1:B:164:GLU:C	1:B:166:SER:N	2.74	0.41
1:B:165:GLN:OE1	1:B:252:ASP:HB3	2.20	0.41
1:B:71:PHE:CD2	1:B:73:ASN:HB2	2.56	0.41
1:C:368:GLN:HB2	1:C:384:ASN:OD1	2.20	0.41
1:C:435:LEU:CG	1:C:446:ILE:HG22	2.46	0.41
1:C:600:GLY:O	1:C:601:GLU:C	2.57	0.41
1:C:722:ILE:HG12	1:C:763:LEU:HB2	2.02	0.41
1:C:757:THR:O	1:C:760:VAL:N	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:792:VAL:O	1:C:793:PHE:C	2.59	0.41
1:D:115:LYS:HB3	1:D:115:LYS:HZ3	1.85	0.41
1:D:412:GLU:C	1:D:414:LYS:N	2.68	0.41
1:D:694:VAL:HG23	2:K:18:LEU:CD2	2.43	0.41
1:D:71:PHE:O	1:D:78:LYS:NZ	2.54	0.41
1:E:307:LEU:HD12	1:E:331:VAL:HG23	2.03	0.41
1:E:413:LEU:HB2	1:E:419:ILE:HD11	2.01	0.41
1:F:197:LYS:NZ	1:F:197:LYS:O	2.51	0.41
1:F:300:LYS:HE2	1:F:300:LYS:HB3	1.94	0.41
1:F:412:GLU:C	1:F:414:LYS:N	2.68	0.41
1:F:413:LEU:HB2	1:F:419:ILE:HD11	2.02	0.41
1:F:413:LEU:CB	1:F:419:ILE:HG12	2.50	0.41
1:F:625:LEU:HD12	1:F:625:LEU:C	2.41	0.41
1:F:731:GLU:O	1:F:734:ASN:HB3	2.20	0.41
1:F:97:TYR:O	1:F:99:GLU:N	2.54	0.41
2:J:16:PHE:HA	2:J:35:VAL:HG11	2.02	0.41
2:K:32:LEU:HD22	2:K:63:ILE:HG21	2.02	0.41
2:L:6:GLU:HG3	2:L:7:GLU:H	1.86	0.41
2:M:126:ARG:C	2:M:128:ALA:H	2.23	0.41
2:M:28:THR:HB	2:M:30:LYS:HZ1	1.85	0.41
2:M:9:ILE:CD1	2:M:69:LEU:HD11	2.50	0.41
1:A:190:PRO:O	1:A:191:GLU:C	2.59	0.41
1:A:191:GLU:O	1:A:193:LEU:N	2.53	0.41
1:A:268:MET:C	1:A:271:LEU:HB2	2.40	0.41
1:A:300:LYS:HB3	1:A:300:LYS:HE2	1.94	0.41
1:B:191:GLU:O	1:B:193:LEU:N	2.54	0.41
1:B:300:LYS:HE2	1:B:300:LYS:HB3	1.94	0.41
1:B:368:GLN:HG3	1:B:383:GLY:C	2.40	0.41
1:B:761:GLN:O	1:B:765:THR:HG23	2.21	0.41
1:C:242:SER:C	1:C:244:ALA:H	2.24	0.41
1:C:334:LEU:HD23	1:C:361:ALA:HB1	2.02	0.41
1:C:628:PHE:CD1	1:C:645:TRP:CD1	3.09	0.41
1:C:71:PHE:O	1:C:78:LYS:NZ	2.54	0.41
1:C:724:ARG:NH1	1:C:724:ARG:CG	2.80	0.41
1:C:765:THR:HG22	1:C:769:SER:OG	2.21	0.41
1:D:201:ASP:O	1:D:210:PHE:CE2	2.73	0.41
1:D:368:GLN:HB2	1:D:384:ASN:OD1	2.20	0.41
1:D:409:ARG:CD	1:D:413:LEU:HD21	2.49	0.41
1:D:503:GLU:O	1:D:506:LYS:HB2	2.20	0.41
1:D:600:GLY:O	1:D:601:GLU:C	2.58	0.41
1:E:110:ASP:O	1:E:111:LEU:C	2.58	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:170:TYR:HA	1:E:173:ILE:HG22	2.03	0.41
1:E:400:LYS:HA	1:E:476:VAL:O	2.21	0.41
1:E:413:LEU:O	1:E:419:ILE:HG12	2.21	0.41
1:E:605:THR:H	1:E:605:THR:HG23	1.59	0.41
1:E:296:LEU:CD2	1:E:606:LYS:HE2	2.51	0.41
1:E:762:LEU:C	1:E:764:LEU:N	2.74	0.41
1:F:100:LEU:HD11	1:F:182:ILE:CG2	2.43	0.41
1:F:478:ALA:CB	1:F:486:LYS:O	2.67	0.41
1:F:71:PHE:CD2	1:F:73:ASN:HB2	2.55	0.41
1:F:747:ASN:O	1:F:748:TYR:C	2.59	0.41
2:H:104:GLU:H	2:H:104:GLU:HG2	1.49	0.41
2:H:111:ASN:C	2:H:113:GLY:N	2.73	0.41
2:H:29:THR:O	2:H:30:LYS:C	2.59	0.41
1:B:709:ASN:CB	2:I:130:ILE:HG23	2.43	0.41
2:J:28:THR:HB	2:J:30:LYS:HZ1	1.85	0.41
2:K:22:ASP:N	2:K:22:ASP:OD1	2.53	0.41
2:L:106:ARG:HB2	2:L:121:VAL:HG21	2.01	0.41
2:L:86:ARG:HE	2:L:86:ARG:HB2	1.69	0.41
1:A:282:SER:HA	1:A:285:LYS:CG	2.51	0.41
1:A:327:LEU:CD1	1:A:327:LEU:N	2.84	0.41
1:A:721:SER:O	1:A:722:ILE:C	2.59	0.41
1:B:162:ASN:O	1:B:163:SER:C	2.58	0.41
1:B:218:LEU:HD12	1:B:218:LEU:O	2.21	0.41
1:B:307:LEU:HD12	1:B:331:VAL:HG23	2.03	0.41
1:B:334:LEU:HD23	1:B:361:ALA:HB1	2.02	0.41
1:B:359:PRO:HG2	1:B:360:VAL:H	1.85	0.41
1:B:715:GLU:HA	1:B:718:ARG:CZ	2.44	0.41
1:B:748:TYR:O	1:B:751:TYR:HB3	2.21	0.41
1:C:110:ASP:O	1:C:111:LEU:C	2.59	0.41
1:C:110:ASP:O	1:C:112:VAL:N	2.54	0.41
1:C:359:PRO:HG2	1:C:360:VAL:H	1.86	0.41
1:C:499:PRO:HG2	1:C:504:ILE:HD11	2.02	0.41
1:C:94:LEU:O	1:C:98:SER:N	2.45	0.41
1:D:162:ASN:O	1:D:163:SER:C	2.58	0.41
1:D:175:LYS:HB2	1:D:175:LYS:HZ3	1.83	0.41
1:D:218:LEU:HD12	1:D:218:LEU:O	2.20	0.41
1:D:268:MET:C	1:D:271:LEU:HB2	2.41	0.41
1:D:282:SER:HA	1:D:285:LYS:CG	2.50	0.41
1:D:334:LEU:HD23	1:D:361:ALA:HB1	2.02	0.41
1:D:531:ASN:HA	1:D:534:ILE:HD12	2.03	0.41
1:D:561:ASN:HA	1:D:564:VAL:HG22	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:270:LYS:HA	1:E:273:LYS:CD	2.49	0.41
1:E:268:MET:HA	1:E:271:LEU:CG	2.50	0.41
1:E:478:ALA:CB	1:E:486:LYS:O	2.67	0.41
1:E:731:GLU:O	1:E:734:ASN:HB3	2.21	0.41
1:F:144:GLU:O	1:F:146:LYS:N	2.51	0.41
1:F:217:LYS:HB3	1:F:236:GLU:OE1	2.20	0.41
1:F:276:PHE:O	1:F:280:SER:HB2	2.21	0.41
1:F:373:LYS:O	1:F:380:VAL:CG2	2.69	0.41
1:F:405:LEU:CD1	1:F:405:LEU:N	2.83	0.41
1:F:628:PHE:CD1	1:F:645:TRP:CD1	3.09	0.41
1:F:721:SER:O	1:F:722:ILE:C	2.58	0.41
1:F:757:THR:HG22	1:F:758:ASN:N	2.35	0.41
2:J:29:THR:O	2:J:30:LYS:C	2.59	0.41
2:K:30:LYS:CD	2:K:30:LYS:H	2.21	0.41
2:K:6:GLU:HG3	2:K:7:GLU:H	1.86	0.41
2:L:13:LYS:C	2:L:15:ALA:N	2.73	0.41
2:M:13:LYS:NZ	2:M:65:PHE:HB2	2.36	0.41
1:A:142:VAL:CG2	1:A:154:ILE:HG23	2.49	0.41
1:A:197:LYS:NZ	1:A:197:LYS:O	2.52	0.41
1:A:557:LEU:CD2	1:A:575:VAL:HG12	2.45	0.41
1:A:71:PHE:O	1:A:78:LYS:NZ	2.54	0.41
1:B:270:LYS:HA	1:B:273:LYS:CD	2.50	0.41
1:B:555:GLN:CG	1:B:556:MET:H	2.34	0.41
1:B:292:ARG:NE	1:B:617:LYS:HE3	2.36	0.41
1:C:285:LYS:HG3	1:C:286:GLU:H	1.84	0.41
1:C:529:VAL:HG21	2:J:109:MET:CE	2.51	0.41
1:C:561:ASN:HA	1:C:564:VAL:HG22	2.03	0.41
1:C:576:ASN:ND2	1:C:576:ASN:N	2.68	0.41
1:C:325:TYR:CZ	1:C:598:PRO:HD3	2.53	0.41
1:C:773:PHE:O	1:C:774:LYS:C	2.59	0.41
1:D:307:LEU:HD12	1:D:331:VAL:CG2	2.50	0.41
1:D:71:PHE:CD2	1:D:73:ASN:HB2	2.55	0.41
1:D:757:THR:HG22	1:D:758:ASN:N	2.35	0.41
1:E:172:GLU:HB3	1:E:246:SER:CB	2.50	0.41
1:E:276:PHE:O	1:E:280:SER:HB2	2.21	0.41
1:E:282:SER:HA	1:E:285:LYS:CG	2.50	0.41
1:E:327:LEU:CD1	1:E:327:LEU:N	2.84	0.41
1:E:495:PHE:CD1	1:E:495:PHE:C	2.94	0.41
1:E:585:GLU:HB3	1:E:586:PHE:HD1	1.84	0.41
1:E:715:GLU:HA	1:E:718:ARG:CZ	2.43	0.41
1:E:722:ILE:HG12	1:E:763:LEU:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:201:ASP:O	1:F:210:PHE:CE2	2.74	0.41
1:F:270:LYS:HA	1:F:273:LYS:CD	2.48	0.41
2:H:22:ASP:O	2:H:24:ASP:N	2.54	0.41
2:I:101:SER:O	2:I:103:ALA:N	2.54	0.41
2:J:114:GLU:OE2	2:J:115:LYS:N	2.54	0.41
2:J:126:ARG:C	2:J:128:ALA:H	2.24	0.41
2:K:13:LYS:HD2	2:K:13:LYS:HA	1.80	0.41
2:M:117:THR:HG23	2:M:120:GLU:CB	2.42	0.41
2:M:86:ARG:O	2:M:86:ARG:CG	2.67	0.41
1:A:218:LEU:C	1:A:220:LEU:N	2.68	0.41
1:A:553:GLN:O	1:A:557:LEU:HB2	2.21	0.41
1:A:645:TRP:O	1:A:646:THR:C	2.58	0.41
1:B:172:GLU:HB3	1:B:246:SER:CB	2.50	0.41
1:B:201:ASP:O	1:B:210:PHE:CE2	2.73	0.41
1:B:792:VAL:O	1:B:793:PHE:C	2.59	0.41
1:C:183:SER:C	1:C:185:ASP:N	2.74	0.41
1:C:270:LYS:HA	1:C:273:LYS:CD	2.49	0.41
1:C:311:HIS:O	1:C:312:ALA:C	2.59	0.41
1:C:494:LEU:HD13	1:C:497:LEU:CD2	2.51	0.41
1:C:625:LEU:C	1:C:625:LEU:HD12	2.41	0.41
1:C:637:PRO:O	1:C:638:GLY:C	2.59	0.41
1:D:373:LYS:O	1:D:380:VAL:CG2	2.69	0.41
1:D:400:LYS:HA	1:D:476:VAL:O	2.20	0.41
1:D:586:PHE:HA	1:D:639:ASN:HD21	1.86	0.41
1:D:296:LEU:CD2	1:D:606:LYS:HE2	2.50	0.41
1:D:762:LEU:C	1:D:764:LEU:N	2.74	0.41
1:E:129:ASN:HD22	1:E:129:ASN:N	2.17	0.41
1:E:368:GLN:HB2	1:E:384:ASN:OD1	2.21	0.41
1:F:170:TYR:HA	1:F:173:ILE:HG22	2.03	0.41
1:F:353:LYS:H	1:F:368:GLN:HE22	1.69	0.41
1:F:706:ASN:O	1:F:709:ASN:HB2	2.21	0.41
1:F:84:ASP:HA	1:F:87:LYS:HE3	2.03	0.41
2:I:22:ASP:O	2:I:24:ASP:N	2.54	0.41
2:K:37:ARG:CG	2:K:37:ARG:NH1	2.77	0.41
2:L:33:GLY:O	2:L:37:ARG:HG3	2.20	0.41
2:L:76:MET:CA	2:L:79:THR:HG22	2.51	0.41
2:M:27:ILE:HD12	2:M:32:LEU:HA	2.02	0.41
1:A:110:ASP:OD1	1:A:110:ASP:N	2.54	0.41
1:A:149:THR:HA	1:A:150:PRO:HD2	1.91	0.41
1:A:731:GLU:O	1:A:734:ASN:HB3	2.20	0.41
1:A:730:ASN:C	1:A:732:ILE:N	2.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:180:ASP:HA	1:B:241:PHE:CD2	2.55	0.41
1:B:401:ILE:CG2	1:B:485:LEU:HB3	2.51	0.41
1:B:549:LEU:HB2	1:B:553:GLN:NE2	2.36	0.41
1:B:628:PHE:CD1	1:B:645:TRP:CD1	3.09	0.41
1:B:730:ASN:C	1:B:732:ILE:N	2.74	0.41
1:B:762:LEU:C	1:B:764:LEU:N	2.75	0.41
1:C:115:LYS:CB	1:C:118:GLN:HG2	2.51	0.41
1:C:170:TYR:HA	1:C:173:ILE:HG22	2.03	0.41
1:C:276:PHE:O	1:C:280:SER:HB2	2.21	0.41
1:C:400:LYS:HA	1:C:476:VAL:O	2.20	0.41
1:C:532:LEU:HD23	1:C:532:LEU:HA	1.84	0.41
1:C:296:LEU:CD2	1:C:606:LYS:HE2	2.51	0.41
1:D:164:GLU:C	1:D:166:SER:N	2.74	0.41
1:D:327:LEU:N	1:D:327:LEU:CD1	2.84	0.41
1:D:413:LEU:HB2	1:D:419:ILE:HD11	2.01	0.41
1:D:637:PRO:O	1:D:638:GLY:C	2.59	0.41
1:D:653:LYS:O	1:D:654:ILE:C	2.59	0.41
1:E:257:LEU:CG	1:E:257:LEU:O	2.67	0.41
1:E:628:PHE:CD1	1:E:645:TRP:CD1	3.08	0.41
1:E:581:GLN:HE21	1:E:629:ASN:HB2	1.86	0.41
1:F:115:LYS:O	1:F:117:LEU:N	2.50	0.41
1:F:154:ILE:HG22	1:F:155:ASN:N	2.35	0.41
1:F:242:SER:C	1:F:244:ALA:H	2.24	0.41
1:F:437:SER:C	1:F:439:ASN:H	2.24	0.41
1:F:94:LEU:O	1:F:98:SER:N	2.45	0.41
2:M:102:ALA:CB	2:M:125:ILE:HG13	2.49	0.41
1:A:123:GLU:CG	1:A:124:GLU:H	2.05	0.41
1:A:503:GLU:O	1:A:506:LYS:HB2	2.21	0.41
1:A:503:GLU:OE1	1:A:506:LYS:HD3	2.21	0.41
1:A:576:ASN:N	1:A:576:ASN:ND2	2.66	0.41
1:A:296:LEU:CD2	1:A:606:LYS:HE2	2.50	0.41
1:A:699:GLY:O	1:A:702:SER:N	2.54	0.41
1:A:770:ASN:HD22	1:A:770:ASN:HA	1.68	0.41
1:B:236:GLU:HA	1:B:239:HIS:HD2	1.85	0.41
1:B:311:HIS:O	1:B:312:ALA:C	2.59	0.41
1:B:306:GLY:O	1:B:336:THR:HG23	2.21	0.41
1:B:553:GLN:O	1:B:557:LEU:HB2	2.21	0.41
1:B:699:GLY:O	1:B:702:SER:N	2.54	0.41
1:B:97:TYR:OH	1:B:150:PRO:HB2	2.21	0.41
1:C:201:ASP:O	1:C:210:PHE:CE2	2.74	0.41
1:C:217:LYS:HB3	1:C:236:GLU:OE1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:413:LEU:O	1:C:419:ILE:HG12	2.21	0.41
1:C:316:LYS:CG	1:C:600:GLY:HA2	2.47	0.41
1:C:731:GLU:O	1:C:734:ASN:HB3	2.21	0.41
1:D:176:GLY:HA2	1:D:179:LEU:CD2	2.48	0.41
1:D:276:PHE:O	1:D:280:SER:HB2	2.21	0.41
1:D:413:LEU:CB	1:D:419:ILE:HG12	2.49	0.41
1:E:629:ASN:HD22	1:E:630:ARG:H	1.64	0.41
1:E:748:TYR:O	1:E:751:TYR:HB3	2.21	0.41
1:E:85:LEU:O	1:E:88:LYS:HB3	2.20	0.41
1:F:97:TYR:OH	1:F:150:PRO:HB2	2.20	0.41
1:F:359:PRO:HB2	1:F:403:LEU:HD21	2.03	0.41
1:F:499:PRO:HG2	1:F:504:ILE:HD11	2.02	0.41
1:F:503:GLU:OE1	1:F:506:LYS:HD3	2.21	0.41
1:F:520:PRO:O	1:F:521:ASN:C	2.59	0.41
1:F:730:ASN:C	1:F:732:ILE:N	2.75	0.41
1:F:757:THR:O	1:F:760:VAL:N	2.51	0.41
2:H:49:GLN:O	2:H:51:MET:N	2.54	0.41
2:I:17:SER:C	2:I:19:PHE:N	2.74	0.41
2:I:33:GLY:O	2:I:37:ARG:HG3	2.21	0.41
2:J:27:ILE:HD12	2:J:32:LEU:HA	2.02	0.41
2:J:39:LEU:HD22	2:J:39:LEU:HA	1.79	0.41
2:K:49:GLN:O	2:K:51:MET:N	2.54	0.41
2:L:101:SER:O	2:L:103:ALA:N	2.54	0.41
2:M:29:THR:O	2:M:30:LYS:C	2.59	0.41
2:M:49:GLN:O	2:M:51:MET:N	2.55	0.41
1:A:201:ASP:O	1:A:210:PHE:CE2	2.74	0.40
1:A:434:LEU:CD1	1:A:435:LEU:N	2.70	0.40
1:B:115:LYS:O	1:B:117:LEU:N	2.52	0.40
1:B:248:TYR:CE1	1:B:269:ASN:HA	2.56	0.40
1:B:373:LYS:O	1:B:380:VAL:CG2	2.69	0.40
1:B:368:GLN:HB2	1:B:384:ASN:OD1	2.21	0.40
1:B:495:PHE:CD1	1:B:495:PHE:C	2.94	0.40
1:B:581:GLN:HE21	1:B:629:ASN:HB2	1.86	0.40
1:C:234:LEU:O	1:C:238:GLN:HG3	2.22	0.40
1:C:353:LYS:H	1:C:368:GLN:HE22	1.69	0.40
1:C:373:LYS:O	1:C:380:VAL:CG2	2.69	0.40
1:C:503:GLU:OE1	1:C:506:LYS:HD3	2.21	0.40
1:D:110:ASP:O	1:D:112:VAL:N	2.54	0.40
1:D:360:VAL:O	1:D:361:ALA:C	2.58	0.40
1:D:316:LYS:CG	1:D:600:GLY:HA2	2.46	0.40
1:D:706:ASN:O	1:D:709:ASN:HB2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:747:ASN:O	1:D:748:TYR:C	2.60	0.40
1:D:84:ASP:HA	1:D:87:LYS:HE3	2.02	0.40
1:D:97:TYR:O	1:D:99:GLU:N	2.53	0.40
1:E:551:ASN:HA	1:E:551:ASN:HD22	1.64	0.40
1:E:71:PHE:CD2	1:E:73:ASN:HB2	2.55	0.40
1:F:115:LYS:CB	1:F:118:GLN:HG2	2.51	0.40
1:F:142:VAL:HG13	1:F:154:ILE:HD11	2.03	0.40
1:F:493:ASP:OD2	1:F:577:HIS:HE1	2.01	0.40
1:F:503:GLU:O	1:F:506:LYS:HB2	2.22	0.40
1:F:630:ARG:CG	1:F:630:ARG:HH11	2.34	0.40
1:F:792:VAL:O	1:F:793:PHE:C	2.59	0.40
2:H:32:LEU:HA	2:H:35:VAL:HG23	2.03	0.40
2:I:32:LEU:HD22	2:I:63:ILE:HG21	2.03	0.40
2:J:17:SER:C	2:J:19:PHE:N	2.73	0.40
2:K:106:ARG:HB2	2:K:121:VAL:HG21	2.02	0.40
2:M:32:LEU:HD22	2:M:63:ILE:HG21	2.02	0.40
1:A:162:ASN:O	1:A:163:SER:C	2.58	0.40
1:A:175:LYS:CB	1:A:175:LYS:HZ3	2.35	0.40
1:A:199:LEU:O	1:A:201:ASP:N	2.52	0.40
1:A:248:TYR:CE1	1:A:269:ASN:HA	2.57	0.40
1:A:368:GLN:HB2	1:A:384:ASN:OD1	2.21	0.40
1:A:435:LEU:CG	1:A:446:ILE:HG22	2.45	0.40
1:A:401:ILE:CG2	1:A:485:LEU:HB3	2.51	0.40
1:A:495:PHE:C	1:A:495:PHE:CD1	2.94	0.40
1:A:555:GLN:CG	1:A:556:MET:H	2.34	0.40
1:A:292:ARG:CD	1:A:617:LYS:HE3	2.51	0.40
1:A:625:LEU:C	1:A:625:LEU:HD12	2.41	0.40
1:A:628:PHE:CD1	1:A:645:TRP:CD1	3.09	0.40
1:B:197:LYS:NZ	1:B:197:LYS:O	2.53	0.40
1:B:234:LEU:O	1:B:238:GLN:HG3	2.21	0.40
1:B:71:PHE:O	1:B:78:LYS:NZ	2.55	0.40
1:C:293:ILE:O	1:C:294:ASP:C	2.60	0.40
1:C:531:ASN:HA	1:C:534:ILE:HD12	2.04	0.40
1:C:581:GLN:HE21	1:C:581:GLN:CA	2.32	0.40
1:C:597:ASN:OD1	1:C:599:GLU:N	2.55	0.40
1:D:115:LYS:CB	1:D:118:GLN:HG2	2.52	0.40
1:D:248:TYR:CE1	1:D:269:ASN:HA	2.57	0.40
1:D:405:LEU:N	1:D:405:LEU:CD1	2.84	0.40
1:D:478:ALA:CB	1:D:486:LYS:O	2.68	0.40
1:E:199:LEU:O	1:E:201:ASP:N	2.52	0.40
1:E:409:ARG:CD	1:E:413:LEU:HD21	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:553:GLN:O	1:E:557:LEU:HB2	2.21	0.40
1:E:690:LYS:HZ3	1:E:741:ILE:HG23	1.86	0.40
1:E:762:LEU:O	1:E:764:LEU:N	2.55	0.40
1:F:183:SER:C	1:F:185:ASP:N	2.75	0.40
1:F:236:GLU:HA	1:F:239:HIS:HD2	1.85	0.40
1:F:323:ASN:O	1:F:324:THR:HG22	2.20	0.40
1:F:448:ASP:O	1:F:449:GLU:C	2.60	0.40
1:F:581:GLN:HE21	1:F:629:ASN:HB2	1.85	0.40
1:F:83:GLN:C	1:F:85:LEU:N	2.71	0.40
2:H:86:ARG:O	2:H:86:ARG:CG	2.69	0.40
2:J:21:LYS:C	2:J:23:GLY:N	2.75	0.40
2:K:13:LYS:C	2:K:15:ALA:N	2.71	0.40
2:K:76:MET:CA	2:K:79:THR:HG22	2.51	0.40
2:L:27:ILE:HD12	2:L:32:LEU:HA	2.03	0.40
2:L:9:ILE:CD1	2:L:69:LEU:HD11	2.50	0.40
1:A:413:LEU:CB	1:A:419:ILE:HG12	2.49	0.40
1:A:345:THR:HG22	1:A:491:ASP:HA	2.03	0.40
1:A:549:LEU:HB2	1:A:553:GLN:NE2	2.37	0.40
1:A:556:MET:HB2	1:A:556:MET:HE3	1.95	0.40
1:A:632:TYR:O	1:A:633:ASN:CB	2.69	0.40
1:A:748:TYR:O	1:A:751:TYR:HB3	2.21	0.40
1:A:762:LEU:C	1:A:764:LEU:N	2.73	0.40
1:B:257:LEU:CG	1:B:257:LEU:O	2.67	0.40
1:B:597:ASN:OD1	1:B:599:GLU:N	2.54	0.40
1:B:657:ILE:HG21	1:B:704:TYR:CD1	2.56	0.40
1:B:773:PHE:O	1:B:774:LYS:C	2.60	0.40
1:C:199:LEU:O	1:C:201:ASP:N	2.53	0.40
1:C:248:TYR:O	1:C:248:TYR:CD2	2.70	0.40
1:C:625:LEU:HD12	1:C:626:TYR:N	2.35	0.40
1:D:285:LYS:HG3	1:D:286:GLU:H	1.84	0.40
1:D:427:ASP:C	1:D:429:GLY:N	2.75	0.40
1:D:401:ILE:CG2	1:D:485:LEU:HB3	2.51	0.40
1:D:526:GLN:O	1:D:529:VAL:N	2.55	0.40
1:D:700:TYR:CE1	1:D:727:GLN:HB3	2.56	0.40
1:E:119:ASP:O	1:E:120:LEU:C	2.59	0.40
1:E:292:ARG:NE	1:E:617:LYS:HE3	2.36	0.40
1:E:353:LYS:H	1:E:368:GLN:HE22	1.69	0.40
1:F:268:MET:C	1:F:271:LEU:HB2	2.40	0.40
2:H:21:LYS:C	2:H:23:GLY:N	2.74	0.40
2:I:86:ARG:CG	2:I:86:ARG:O	2.68	0.40
2:J:97:ASN:ND2	2:J:97:ASN:N	2.64	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:86:ARG:O	2:K:86:ARG:CG	2.69	0.40
2:L:111:ASN:C	2:L:113:GLY:N	2.73	0.40
2:L:29:THR:O	2:L:30:LYS:C	2.60	0.40
1:A:520:PRO:O	1:A:521:ASN:C	2.59	0.40
1:B:248:TYR:HE1	1:B:269:ASN:HA	1.87	0.40
1:B:576:ASN:N	1:B:576:ASN:ND2	2.67	0.40
1:B:637:PRO:O	1:B:638:GLY:C	2.60	0.40
1:C:700:TYR:CE1	1:C:727:GLN:HB3	2.55	0.40
1:C:762:LEU:C	1:C:764:LEU:N	2.75	0.40
1:C:777:TYR:CE1	1:C:782:PHE:HE1	2.40	0.40
1:C:79:ILE:C	1:C:81:GLN:N	2.69	0.40
1:C:84:ASP:HA	1:C:87:LYS:HE3	2.03	0.40
1:D:359:PRO:HB2	1:D:403:LEU:HD21	2.04	0.40
1:D:413:LEU:O	1:D:419:ILE:HG12	2.21	0.40
1:D:580:GLU:C	1:D:582:ASP:H	2.24	0.40
1:D:732:ILE:O	1:D:734:ASN:N	2.54	0.40
1:D:773:PHE:O	1:D:774:LYS:C	2.60	0.40
1:D:777:TYR:CE1	1:D:782:PHE:HE1	2.40	0.40
1:E:165:GLN:OE1	1:E:252:ASP:HB3	2.20	0.40
1:E:234:LEU:O	1:E:238:GLN:HG3	2.22	0.40
1:E:503:GLU:O	1:E:506:LYS:HB2	2.21	0.40
1:E:520:PRO:O	1:E:521:ASN:C	2.59	0.40
1:F:122:GLU:CB	1:F:147:ARG:HG3	2.51	0.40
1:F:176:GLY:O	1:F:179:LEU:HD23	2.21	0.40
1:F:327:LEU:CD1	1:F:327:LEU:N	2.84	0.40
1:F:413:LEU:O	1:F:419:ILE:HG12	2.21	0.40
1:F:561:ASN:HA	1:F:564:VAL:HG22	2.03	0.40
1:F:738:SER:HB3	1:F:739:LYS:H	1.60	0.40
2:H:89:PHE:O	2:H:90:ARG:C	2.59	0.40
2:I:106:ARG:HB2	2:I:121:VAL:HG21	2.02	0.40
2:I:76:MET:CA	2:I:79:THR:HG22	2.51	0.40
2:J:32:LEU:HD22	2:J:63:ILE:HG21	2.03	0.40
2:J:6:GLU:O	2:J:9:ILE:N	2.43	0.40
2:K:22:ASP:O	2:K:24:ASP:N	2.54	0.40
2:M:5:THR:CG2	2:M:8:GLN:HB2	2.52	0.40
1:A:176:GLY:O	1:A:179:LEU:HD23	2.21	0.40
1:A:307:LEU:HD12	1:A:331:VAL:HG23	2.04	0.40
1:A:427:ASP:C	1:A:429:GLY:N	2.75	0.40
1:B:293:ILE:O	1:B:294:ASP:C	2.60	0.40
1:B:556:MET:HE3	1:B:556:MET:HB2	1.95	0.40
1:C:183:SER:C	1:C:185:ASP:H	2.25	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:191:GLU:O	1:C:193:LEU:N	2.54	0.40
1:C:281:GLU:HA	1:C:284:LYS:HB3	2.04	0.40
1:C:437:SER:C	1:C:439:ASN:H	2.25	0.40
1:C:503:GLU:O	1:C:506:LYS:HB2	2.21	0.40
1:D:119:ASP:O	1:D:120:LEU:C	2.60	0.40
1:D:131:ARG:HG3	1:D:243:LEU:HD13	2.03	0.40
1:D:499:PRO:HG2	1:D:504:ILE:HD11	2.02	0.40
1:D:630:ARG:HH11	1:D:630:ARG:CG	2.35	0.40
1:E:164:GLU:C	1:E:166:SER:N	2.74	0.40
1:E:427:ASP:C	1:E:429:GLY:N	2.75	0.40
1:E:437:SER:C	1:E:439:ASN:H	2.25	0.40
1:E:747:ASN:O	1:E:748:TYR:C	2.59	0.40
1:E:773:PHE:O	1:E:774:LYS:C	2.60	0.40
1:E:83:GLN:C	1:E:85:LEU:H	2.25	0.40
1:F:171:TYR:O	1:F:175:LYS:NZ	2.55	0.40
1:F:165:GLN:OE1	1:F:252:ASP:HB3	2.20	0.40
1:F:307:LEU:HD12	1:F:331:VAL:HG23	2.03	0.40
1:F:292:ARG:CD	1:F:617:LYS:HE3	2.50	0.40
1:F:748:TYR:O	1:F:751:TYR:HB3	2.22	0.40
1:F:762:LEU:O	1:F:764:LEU:N	2.55	0.40
1:F:71:PHE:O	1:F:78:LYS:NZ	2.54	0.40
2:H:76:MET:CA	2:H:79:THR:HG22	2.52	0.40
2:I:22:ASP:OD1	2:I:22:ASP:N	2.55	0.40
2:I:49:GLN:O	2:I:51:MET:N	2.54	0.40
2:J:16:PHE:CE1	2:J:27:ILE:HG12	2.56	0.40
2:J:37:ARG:NH1	2:J:37:ARG:CG	2.78	0.40
2:J:6:GLU:HG3	2:J:7:GLU:H	1.86	0.40
2:K:29:THR:O	2:K:30:LYS:C	2.60	0.40
2:M:114:GLU:OE2	2:M:115:LYS:N	2.54	0.40
2:M:22:ASP:N	2:M:22:ASP:OD1	2.54	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	733/777 (94%)	466 (64%)	168 (23%)	99 (14%)	0	4
1	B	733/777 (94%)	463 (63%)	171 (23%)	99 (14%)	0	4
1	C	733/777 (94%)	463 (63%)	172 (24%)	98 (13%)	0	4
1	D	733/777 (94%)	467 (64%)	168 (23%)	98 (13%)	0	4
1	E	733/777 (94%)	464 (63%)	170 (23%)	99 (14%)	0	4
1	F	733/777 (94%)	466 (64%)	168 (23%)	99 (14%)	0	4
2	H	144/146 (99%)	86 (60%)	37 (26%)	21 (15%)	0	3
2	I	144/146 (99%)	87 (60%)	37 (26%)	20 (14%)	0	4
2	J	144/146 (99%)	87 (60%)	38 (26%)	19 (13%)	0	4
2	K	144/146 (99%)	87 (60%)	38 (26%)	19 (13%)	0	4
2	L	144/146 (99%)	87 (60%)	38 (26%)	19 (13%)	0	4
2	M	144/146 (99%)	87 (60%)	37 (26%)	20 (14%)	0	4
All	All	5262/5538 (95%)	3310 (63%)	1242 (24%)	710 (14%)	0	4

All (710) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	75	THR
1	A	76	LEU
1	A	77	ASP
1	A	80	GLN
1	A	111	LEU
1	A	128	MET
1	A	129	ASN
1	A	131	ARG
1	A	134	LYS
1	A	135	VAL
1	A	146	LYS
1	A	163	SER
1	A	180	ASP
1	A	229	PHE
1	A	373	LYS
1	A	376	GLN
1	A	409	ARG
1	A	423	LYS
1	A	428	ASN

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Mol	Chain	Res	Type
1	A	438	ASN
1	A	451	ASN
1	A	471	TRP
1	A	520	PRO
1	A	580	GLU
1	A	711	ILE
1	A	714	GLN
1	A	720	ILE
1	A	738	SER
1	A	739	LYS
1	A	783	THR
1	B	75	THR
1	B	76	LEU
1	B	77	ASP
1	B	80	GLN
1	B	111	LEU
1	B	128	MET
1	B	129	ASN
1	B	131	ARG
1	B	134	LYS
1	B	135	VAL
1	B	146	LYS
1	B	159	TYR
1	B	163	SER
1	B	180	ASP
1	B	229	PHE
1	B	373	LYS
1	B	376	GLN
1	B	409	ARG
1	B	423	LYS
1	B	428	ASN
1	B	438	ASN
1	B	451	ASN
1	B	471	TRP
1	B	520	PRO
1	B	580	GLU
1	B	711	ILE
1	B	714	GLN
1	B	720	ILE
1	B	738	SER
1	B	739	LYS
1	B	783	THR

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Mol	Chain	Res	Type
1	C	75	THR
1	C	76	LEU
1	C	77	ASP
1	C	80	GLN
1	C	111	LEU
1	C	128	MET
1	C	129	ASN
1	C	131	ARG
1	C	134	LYS
1	C	135	VAL
1	C	146	LYS
1	C	163	SER
1	C	180	ASP
1	C	229	PHE
1	C	373	LYS
1	C	376	GLN
1	C	409	ARG
1	C	423	LYS
1	C	428	ASN
1	C	438	ASN
1	C	451	ASN
1	C	471	TRP
1	C	520	PRO
1	C	580	GLU
1	C	711	ILE
1	C	714	GLN
1	C	720	ILE
1	C	738	SER
1	C	739	LYS
1	C	783	THR
1	D	75	THR
1	D	76	LEU
1	D	77	ASP
1	D	80	GLN
1	D	111	LEU
1	D	128	MET
1	D	129	ASN
1	D	131	ARG
1	D	134	LYS
1	D	135	VAL
1	D	146	LYS
1	D	163	SER

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Mol	Chain	Res	Type
1	D	180	ASP
1	D	229	PHE
1	D	373	LYS
1	D	376	GLN
1	D	409	ARG
1	D	423	LYS
1	D	428	ASN
1	D	438	ASN
1	D	451	ASN
1	D	471	TRP
1	D	520	PRO
1	D	580	GLU
1	D	711	ILE
1	D	714	GLN
1	D	720	ILE
1	D	738	SER
1	D	739	LYS
1	D	783	THR
1	E	75	THR
1	E	76	LEU
1	E	77	ASP
1	E	80	GLN
1	E	111	LEU
1	E	128	MET
1	E	129	ASN
1	E	131	ARG
1	E	134	LYS
1	E	135	VAL
1	E	146	LYS
1	E	159	TYR
1	E	163	SER
1	E	180	ASP
1	E	229	PHE
1	E	373	LYS
1	E	376	GLN
1	E	409	ARG
1	E	423	LYS
1	E	428	ASN
1	E	438	ASN
1	E	451	ASN
1	E	471	TRP
1	E	520	PRO

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Mol	Chain	Res	Type
1	E	580	GLU
1	E	711	ILE
1	E	714	GLN
1	E	720	ILE
1	E	738	SER
1	E	739	LYS
1	E	783	THR
1	F	75	THR
1	F	76	LEU
1	F	77	ASP
1	F	80	GLN
1	F	111	LEU
1	F	128	MET
1	F	129	ASN
1	F	131	ARG
1	F	134	LYS
1	F	135	VAL
1	F	146	LYS
1	F	163	SER
1	F	180	ASP
1	F	229	PHE
1	F	373	LYS
1	F	376	GLN
1	F	409	ARG
1	F	423	LYS
1	F	428	ASN
1	F	438	ASN
1	F	451	ASN
1	F	471	TRP
1	F	520	PRO
1	F	580	GLU
1	F	711	ILE
1	F	714	GLN
1	F	720	ILE
1	F	738	SER
1	F	739	LYS
1	F	783	THR
2	H	23	GLY
2	H	93	ASP
2	I	23	GLY
2	I	93	ASP
2	J	23	GLY

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Mol	Chain	Res	Type
2	J	93	ASP
2	K	23	GLY
2	K	93	ASP
2	L	23	GLY
2	L	93	ASP
2	M	23	GLY
2	M	93	ASP
1	A	73	ASN
1	A	84	ASP
1	A	91	LYS
1	A	108	ASP
1	A	112	VAL
1	A	113	GLU
1	A	130	SER
1	A	161	ILE
1	A	162	ASN
1	A	191	GLU
1	A	192	PHE
1	A	264	MET
1	A	290	LYS
1	A	302	LEU
1	A	334	LEU
1	A	372	LYS
1	A	377	GLN
1	A	406	ASP
1	A	585	GLU
1	A	654	ILE
1	A	755	ARG
1	A	770	ASN
1	A	778	LYS
1	A	779	GLN
1	A	794	GLN
1	B	73	ASN
1	B	84	ASP
1	B	91	LYS
1	B	108	ASP
1	B	112	VAL
1	B	113	GLU
1	B	130	SER
1	B	161	ILE
1	B	162	ASN
1	B	191	GLU

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Mol	Chain	Res	Type
1	B	192	PHE
1	B	264	MET
1	B	290	LYS
1	B	334	LEU
1	B	372	LYS
1	B	377	GLN
1	B	406	ASP
1	B	585	GLU
1	B	755	ARG
1	B	770	ASN
1	B	778	LYS
1	B	779	GLN
1	B	794	GLN
1	C	73	ASN
1	C	84	ASP
1	C	91	LYS
1	C	108	ASP
1	C	112	VAL
1	C	113	GLU
1	C	130	SER
1	C	161	ILE
1	C	162	ASN
1	C	191	GLU
1	C	192	PHE
1	C	264	MET
1	C	290	LYS
1	C	334	LEU
1	C	372	LYS
1	C	377	GLN
1	C	406	ASP
1	C	585	GLU
1	C	755	ARG
1	C	770	ASN
1	C	778	LYS
1	C	779	GLN
1	C	794	GLN
1	D	73	ASN
1	D	91	LYS
1	D	108	ASP
1	D	112	VAL
1	D	113	GLU
1	D	130	SER

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Mol	Chain	Res	Type
1	D	161	ILE
1	D	162	ASN
1	D	192	PHE
1	D	264	MET
1	D	290	LYS
1	D	302	LEU
1	D	334	LEU
1	D	372	LYS
1	D	377	GLN
1	D	406	ASP
1	D	585	GLU
1	D	654	ILE
1	D	755	ARG
1	D	770	ASN
1	D	778	LYS
1	D	779	GLN
1	D	794	GLN
1	E	73	ASN
1	E	84	ASP
1	E	91	LYS
1	E	108	ASP
1	E	112	VAL
1	E	113	GLU
1	E	130	SER
1	E	162	ASN
1	E	192	PHE
1	E	264	MET
1	E	290	LYS
1	E	302	LEU
1	E	334	LEU
1	E	372	LYS
1	E	377	GLN
1	E	406	ASP
1	E	585	GLU
1	E	654	ILE
1	E	755	ARG
1	E	770	ASN
1	E	778	LYS
1	E	779	GLN
1	E	794	GLN
1	F	73	ASN
1	F	84	ASP

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Mol	Chain	Res	Type
1	F	91	LYS
1	F	108	ASP
1	F	112	VAL
1	F	113	GLU
1	F	116	GLU
1	F	130	SER
1	F	161	ILE
1	F	162	ASN
1	F	192	PHE
1	F	264	MET
1	F	290	LYS
1	F	302	LEU
1	F	334	LEU
1	F	372	LYS
1	F	377	GLN
1	F	406	ASP
1	F	585	GLU
1	F	755	ARG
1	F	770	ASN
1	F	778	LYS
1	F	779	GLN
1	F	794	GLN
2	H	22	ASP
2	H	43	PRO
2	H	50	ASP
2	H	64	ASP
2	H	76	MET
2	H	118	ASP
2	H	125	ILE
2	I	22	ASP
2	I	43	PRO
2	I	50	ASP
2	I	64	ASP
2	I	76	MET
2	I	118	ASP
2	I	125	ILE
2	J	43	PRO
2	J	50	ASP
2	J	64	ASP
2	J	76	MET
2	J	118	ASP
2	J	125	ILE

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Mol	Chain	Res	Type
2	K	22	ASP
2	K	43	PRO
2	K	50	ASP
2	K	64	ASP
2	K	76	MET
2	K	118	ASP
2	K	125	ILE
2	L	22	ASP
2	L	43	PRO
2	L	50	ASP
2	L	64	ASP
2	L	76	MET
2	L	118	ASP
2	L	125	ILE
2	M	43	PRO
2	M	50	ASP
2	M	64	ASP
2	M	76	MET
2	M	118	ASP
2	M	125	ILE
1	A	70	GLU
1	A	116	GLU
1	A	186	LYS
1	A	188	LEU
1	A	202	ASP
1	A	204	ASP
1	A	206	SER
1	A	232	GLU
1	A	262	PRO
1	A	274	GLY
1	A	354	SER
1	A	385	LEU
1	A	620	THR
1	A	719	LYS
1	A	731	GLU
1	A	756	ILE
1	A	757	THR
1	A	765	THR
1	B	70	GLU
1	B	116	GLU
1	B	186	LYS
1	B	202	ASP

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Mol	Chain	Res	Type
1	B	204	ASP
1	B	206	SER
1	B	232	GLU
1	B	262	PRO
1	B	274	GLY
1	B	302	LEU
1	B	354	SER
1	B	385	LEU
1	B	620	THR
1	B	654	ILE
1	B	719	LYS
1	B	731	GLU
1	B	756	ILE
1	B	757	THR
1	B	765	THR
1	C	70	GLU
1	C	116	GLU
1	C	186	LYS
1	C	202	ASP
1	C	204	ASP
1	C	206	SER
1	C	232	GLU
1	C	262	PRO
1	C	274	GLY
1	C	302	LEU
1	C	354	SER
1	C	385	LEU
1	C	605	THR
1	C	620	THR
1	C	654	ILE
1	C	719	LYS
1	C	731	GLU
1	C	756	ILE
1	C	757	THR
1	C	765	THR
1	D	70	GLU
1	D	84	ASP
1	D	116	GLU
1	D	186	LYS
1	D	191	GLU
1	D	202	ASP
1	D	204	ASP

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Mol	Chain	Res	Type
1	D	206	SER
1	D	232	GLU
1	D	262	PRO
1	D	274	GLY
1	D	307	LEU
1	D	354	SER
1	D	385	LEU
1	D	452	GLU
1	D	620	THR
1	D	719	LYS
1	D	731	GLU
1	D	756	ILE
1	D	757	THR
1	E	70	GLU
1	E	116	GLU
1	E	186	LYS
1	E	191	GLU
1	E	202	ASP
1	E	204	ASP
1	E	206	SER
1	E	232	GLU
1	E	262	PRO
1	E	274	GLY
1	E	354	SER
1	E	385	LEU
1	E	605	THR
1	E	620	THR
1	E	719	LYS
1	E	731	GLU
1	E	756	ILE
1	E	757	THR
1	E	765	THR
1	F	70	GLU
1	F	186	LYS
1	F	191	GLU
1	F	202	ASP
1	F	204	ASP
1	F	206	SER
1	F	232	GLU
1	F	262	PRO
1	F	274	GLY
1	F	354	SER

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Mol	Chain	Res	Type
1	F	385	LEU
1	F	620	THR
1	F	654	ILE
1	F	719	LYS
1	F	731	GLU
1	F	756	ILE
1	F	757	THR
1	F	765	THR
1	F	777	TYR
2	H	18	LEU
2	H	25	GLY
2	H	41	GLN
2	H	107	HIS
2	I	12	PHE
2	I	18	LEU
2	I	25	GLY
2	I	41	GLN
2	I	107	HIS
2	J	12	PHE
2	J	18	LEU
2	J	22	ASP
2	J	25	GLY
2	J	41	GLN
2	J	107	HIS
2	K	18	LEU
2	K	25	GLY
2	K	41	GLN
2	K	107	HIS
2	L	18	LEU
2	L	25	GLY
2	L	41	GLN
2	L	107	HIS
2	M	12	PHE
2	M	18	LEU
2	M	22	ASP
2	M	25	GLY
2	M	41	GLN
2	M	107	HIS
1	A	98	SER
1	A	165	GLN
1	A	176	GLY
1	A	187	SER

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Mol	Chain	Res	Type
1	A	307	LEU
1	A	329	ARG
1	A	452	GLU
1	A	510	GLN
1	A	605	THR
1	A	777	TYR
1	B	98	SER
1	B	165	GLN
1	B	187	SER
1	B	190	PRO
1	B	307	LEU
1	B	329	ARG
1	B	452	GLU
1	B	496	ALA
1	B	510	GLN
1	B	605	THR
1	B	777	TYR
1	C	98	SER
1	C	165	GLN
1	C	176	GLY
1	C	190	PRO
1	C	307	LEU
1	C	329	ARG
1	C	452	GLU
1	C	496	ALA
1	C	510	GLN
1	C	777	TYR
1	D	98	SER
1	D	165	GLN
1	D	190	PRO
1	D	329	ARG
1	D	510	GLN
1	D	605	THR
1	D	765	THR
1	D	777	TYR
1	E	98	SER
1	E	165	GLN
1	E	176	GLY
1	E	190	PRO
1	E	307	LEU
1	E	329	ARG
1	E	452	GLU

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Mol	Chain	Res	Type
1	E	510	GLN
1	E	777	TYR
1	F	98	SER
1	F	159	TYR
1	F	165	GLN
1	F	188	LEU
1	F	307	LEU
1	F	329	ARG
1	F	452	GLU
1	F	496	ALA
1	F	510	GLN
1	F	605	THR
2	H	12	PHE
2	H	21	LYS
2	H	37	ARG
2	H	59	GLY
2	H	127	GLU
2	I	21	LYS
2	I	37	ARG
2	I	59	GLY
2	I	127	GLU
2	J	21	LYS
2	J	37	ARG
2	J	59	GLY
2	J	127	GLU
2	K	12	PHE
2	K	21	LYS
2	K	37	ARG
2	K	59	GLY
2	K	127	GLU
2	L	12	PHE
2	L	21	LYS
2	L	37	ARG
2	L	59	GLY
2	L	127	GLU
2	M	21	LYS
2	M	37	ARG
2	M	59	GLY
2	M	127	GLU
1	A	189	ASP
1	A	295	VAL
1	A	441	VAL

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Mol	Chain	Res	Type
1	A	496	ALA
1	A	597	ASN
1	A	601	GLU
1	A	773	PHE
1	B	176	GLY
1	B	295	VAL
1	B	441	VAL
1	B	601	GLU
1	B	773	PHE
1	C	187	SER
1	C	295	VAL
1	C	441	VAL
1	C	601	GLU
1	C	773	PHE
1	D	159	TYR
1	D	176	GLY
1	D	187	SER
1	D	295	VAL
1	D	441	VAL
1	D	496	ALA
1	D	601	GLU
1	D	773	PHE
1	E	295	VAL
1	E	441	VAL
1	E	496	ALA
1	E	601	GLU
1	E	773	PHE
1	F	176	GLY
1	F	189	ASP
1	F	295	VAL
1	F	347	GLY
1	F	441	VAL
1	F	597	ASN
1	F	601	GLU
1	F	773	PHE
2	H	73	ALA
2	I	73	ALA
2	J	73	ALA
2	K	73	ALA
2	L	73	ALA
2	M	73	ALA
1	A	347	GLY

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Mol	Chain	Res	Type
1	A	466	GLY
1	A	637	PRO
1	B	466	GLY
1	B	597	ASN
1	B	637	PRO
1	C	466	GLY
1	C	597	ASN
1	C	637	PRO
1	D	466	GLY
1	D	597	ASN
1	D	637	PRO
1	E	347	GLY
1	E	466	GLY
1	E	597	ASN
1	E	617	LYS
1	E	637	PRO
1	F	466	GLY
1	F	637	PRO
2	H	38	SER
2	I	102	ALA
2	M	38	SER
1	A	568	GLY
1	B	177	ILE
1	B	347	GLY
1	B	568	GLY
1	C	189	ASP
1	C	347	GLY
1	C	568	GLY
1	D	177	ILE
1	D	347	GLY
1	D	568	GLY
1	E	161	ILE
1	E	177	ILE
1	E	568	GLY
1	F	177	ILE
1	F	568	GLY
1	A	177	ILE
1	C	177	ILE
1	C	481	VAL
1	F	190	PRO
1	A	342	GLY
1	A	481	VAL

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Mol	Chain	Res	Type
1	A	619	ILE
1	B	342	GLY
1	B	481	VAL
1	B	619	ILE
1	C	619	ILE
1	D	342	GLY
1	D	481	VAL
1	D	619	ILE
1	E	342	GLY
1	E	481	VAL
1	E	619	ILE
1	F	481	VAL
1	F	619	ILE
1	C	342	GLY
1	F	342	GLY
1	A	181	ILE
1	B	189	ASP
1	E	181	ILE
2	H	134	GLY

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%)	577 (87%)	87 (13%)	4	23
1	B	664/705 (94%)	576 (87%)	88 (13%)	4	23
1	C	664/705 (94%)	575 (87%)	89 (13%)	4	23
1	D	664/705 (94%)	571 (86%)	93 (14%)	3	21
1	E	664/705 (94%)	577 (87%)	87 (13%)	4	23
1	F	664/705 (94%)	578 (87%)	86 (13%)	4	24
2	H	123/123 (100%)	105 (85%)	18 (15%)	3	20
2	I	123/123 (100%)	105 (85%)	18 (15%)	3	20
2	J	123/123 (100%)	105 (85%)	18 (15%)	3	20

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	K	123/123 (100%)	105 (85%)	18 (15%)	3	20
2	L	123/123 (100%)	105 (85%)	18 (15%)	3	20
2	M	123/123 (100%)	105 (85%)	18 (15%)	3	20
All	All	4722/4968 (95%)	4084 (86%)	638 (14%)	4	23

All (638) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	65	ASN
1	A	71	PHE
1	A	76	LEU
1	A	82	THR
1	A	84	ASP
1	A	88	LYS
1	A	89	ILE
1	A	97	TYR
1	A	110	ASP
1	A	115	LYS
1	A	117	LEU
1	A	120	LEU
1	A	122	GLU
1	A	135	VAL
1	A	140	ARG
1	A	141	PHE
1	A	149	THR
1	A	158	ASP
1	A	172	GLU
1	A	173	ILE
1	A	182	ILE
1	A	188	LEU
1	A	190	PRO
1	A	210	PHE
1	A	218	LEU
1	A	229	PHE
1	A	248	TYR
1	A	254	ARG
1	A	255	THR
1	A	279	ILE
1	A	284	LYS
1	A	292	ARG
1	A	293	ILE

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Mol	Chain	Res	Type
1	A	323	ASN
1	A	324	THR
1	A	328	PHE
1	A	349	ASN
1	A	356	ASP
1	A	364	ILE
1	A	370	LEU
1	A	377	GLN
1	A	385	LEU
1	A	392	THR
1	A	395	GLU
1	A	397	GLU
1	A	400	LYS
1	A	415	GLU
1	A	427	ASP
1	A	434	LEU
1	A	436	GLU
1	A	438	ASN
1	A	446	ILE
1	A	451	ASN
1	A	455	TYR
1	A	469	PHE
1	A	470	ASN
1	A	473	ASN
1	A	484	VAL
1	A	501	LEU
1	A	507	GLN
1	A	514	ASP
1	A	545	THR
1	A	551	ASN
1	A	557	LEU
1	A	562	GLU
1	A	573	ASP
1	A	580	GLU
1	A	597	ASN
1	A	626	TYR
1	A	635	ILE
1	A	639	ASN
1	A	650	THR
1	A	659	THR
1	A	665	LYS
1	A	666	ASN

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Mol	Chain	Res	Type
1	A	670	ILE
1	A	672	ARG
1	A	682	SER
1	A	688	PHE
1	A	709	ASN
1	A	714	GLN
1	A	744	GLU
1	A	755	ARG
1	A	766	HIS
1	A	767	GLN
1	A	770	ASN
1	A	781	ASN
1	B	64	ASN
1	B	65	ASN
1	B	71	PHE
1	B	76	LEU
1	B	82	THR
1	B	84	ASP
1	B	88	LYS
1	B	89	ILE
1	B	97	TYR
1	B	110	ASP
1	B	115	LYS
1	B	117	LEU
1	B	120	LEU
1	B	122	GLU
1	B	135	VAL
1	B	140	ARG
1	B	141	PHE
1	B	149	THR
1	B	158	ASP
1	B	172	GLU
1	B	173	ILE
1	B	182	ILE
1	B	188	LEU
1	B	190	PRO
1	B	210	PHE
1	B	218	LEU
1	B	229	PHE
1	B	248	TYR
1	B	254	ARG
1	B	255	THR

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Mol	Chain	Res	Type
1	B	279	ILE
1	B	284	LYS
1	B	292	ARG
1	B	293	ILE
1	B	320	ARG
1	B	323	ASN
1	B	324	THR
1	B	349	ASN
1	B	356	ASP
1	B	364	ILE
1	B	370	LEU
1	B	377	GLN
1	B	385	LEU
1	B	392	THR
1	B	395	GLU
1	B	397	GLU
1	B	400	LYS
1	B	415	GLU
1	B	427	ASP
1	B	434	LEU
1	B	436	GLU
1	B	438	ASN
1	B	446	ILE
1	B	451	ASN
1	B	455	TYR
1	B	469	PHE
1	B	470	ASN
1	B	473	ASN
1	B	479	LYS
1	B	484	VAL
1	B	501	LEU
1	B	507	GLN
1	B	514	ASP
1	B	545	THR
1	B	551	ASN
1	B	557	LEU
1	B	562	GLU
1	B	573	ASP
1	B	580	GLU
1	B	597	ASN
1	B	626	TYR
1	B	635	ILE

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Mol	Chain	Res	Type
1	B	639	ASN
1	B	650	THR
1	B	659	THR
1	B	665	LYS
1	B	666	ASN
1	B	672	ARG
1	B	682	SER
1	B	688	PHE
1	B	709	ASN
1	B	714	GLN
1	B	744	GLU
1	B	755	ARG
1	B	766	HIS
1	B	767	GLN
1	B	770	ASN
1	B	781	ASN
1	C	65	ASN
1	C	71	PHE
1	C	76	LEU
1	C	82	THR
1	C	84	ASP
1	C	88	LYS
1	C	89	ILE
1	C	97	TYR
1	C	110	ASP
1	C	115	LYS
1	C	117	LEU
1	C	120	LEU
1	C	122	GLU
1	C	135	VAL
1	C	140	ARG
1	C	141	PHE
1	C	149	THR
1	C	158	ASP
1	C	172	GLU
1	C	173	ILE
1	C	182	ILE
1	C	188	LEU
1	C	190	PRO
1	C	210	PHE
1	C	218	LEU
1	C	229	PHE

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Mol	Chain	Res	Type
1	C	248	TYR
1	C	254	ARG
1	C	255	THR
1	C	279	ILE
1	C	284	LYS
1	C	292	ARG
1	C	293	ILE
1	C	309	PRO
1	C	320	ARG
1	C	323	ASN
1	C	324	THR
1	C	328	PHE
1	C	349	ASN
1	C	356	ASP
1	C	364	ILE
1	C	370	LEU
1	C	377	GLN
1	C	385	LEU
1	C	392	THR
1	C	395	GLU
1	C	397	GLU
1	C	400	LYS
1	C	415	GLU
1	C	427	ASP
1	C	434	LEU
1	C	436	GLU
1	C	438	ASN
1	C	446	ILE
1	C	451	ASN
1	C	455	TYR
1	C	469	PHE
1	C	470	ASN
1	C	473	ASN
1	C	484	VAL
1	C	501	LEU
1	C	507	GLN
1	C	514	ASP
1	C	545	THR
1	C	551	ASN
1	C	557	LEU
1	C	562	GLU
1	C	573	ASP

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Mol	Chain	Res	Type
1	C	580	GLU
1	C	597	ASN
1	C	626	TYR
1	C	635	ILE
1	C	639	ASN
1	C	650	THR
1	C	659	THR
1	C	665	LYS
1	C	666	ASN
1	C	670	ILE
1	C	672	ARG
1	C	673	SER
1	C	682	SER
1	C	688	PHE
1	C	709	ASN
1	C	714	GLN
1	C	744	GLU
1	C	755	ARG
1	C	766	HIS
1	C	770	ASN
1	C	781	ASN
1	D	64	ASN
1	D	65	ASN
1	D	71	PHE
1	D	76	LEU
1	D	82	THR
1	D	84	ASP
1	D	88	LYS
1	D	89	ILE
1	D	97	TYR
1	D	110	ASP
1	D	115	LYS
1	D	117	LEU
1	D	120	LEU
1	D	122	GLU
1	D	135	VAL
1	D	140	ARG
1	D	141	PHE
1	D	147	ARG
1	D	149	THR
1	D	158	ASP
1	D	172	GLU

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Mol	Chain	Res	Type
1	D	173	ILE
1	D	182	ILE
1	D	188	LEU
1	D	190	PRO
1	D	210	PHE
1	D	218	LEU
1	D	229	PHE
1	D	248	TYR
1	D	254	ARG
1	D	255	THR
1	D	279	ILE
1	D	284	LYS
1	D	292	ARG
1	D	293	ILE
1	D	309	PRO
1	D	320	ARG
1	D	323	ASN
1	D	324	THR
1	D	328	PHE
1	D	349	ASN
1	D	356	ASP
1	D	364	ILE
1	D	370	LEU
1	D	377	GLN
1	D	385	LEU
1	D	392	THR
1	D	395	GLU
1	D	397	GLU
1	D	400	LYS
1	D	415	GLU
1	D	427	ASP
1	D	434	LEU
1	D	436	GLU
1	D	438	ASN
1	D	446	ILE
1	D	451	ASN
1	D	455	TYR
1	D	469	PHE
1	D	470	ASN
1	D	473	ASN
1	D	484	VAL
1	D	501	LEU

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Mol	Chain	Res	Type
1	D	507	GLN
1	D	514	ASP
1	D	545	THR
1	D	551	ASN
1	D	557	LEU
1	D	562	GLU
1	D	573	ASP
1	D	580	GLU
1	D	597	ASN
1	D	626	TYR
1	D	635	ILE
1	D	639	ASN
1	D	650	THR
1	D	659	THR
1	D	665	LYS
1	D	666	ASN
1	D	670	ILE
1	D	672	ARG
1	D	674	SER
1	D	675	ASN
1	D	682	SER
1	D	688	PHE
1	D	709	ASN
1	D	714	GLN
1	D	724	ARG
1	D	744	GLU
1	D	755	ARG
1	D	766	HIS
1	D	770	ASN
1	D	781	ASN
1	E	65	ASN
1	E	71	PHE
1	E	76	LEU
1	E	82	THR
1	E	84	ASP
1	E	88	LYS
1	E	89	ILE
1	E	97	TYR
1	E	110	ASP
1	E	115	LYS
1	E	117	LEU
1	E	120	LEU

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Mol	Chain	Res	Type
1	E	122	GLU
1	E	135	VAL
1	E	140	ARG
1	E	141	PHE
1	E	147	ARG
1	E	149	THR
1	E	158	ASP
1	E	172	GLU
1	E	173	ILE
1	E	182	ILE
1	E	188	LEU
1	E	189	ASP
1	E	190	PRO
1	E	210	PHE
1	E	218	LEU
1	E	229	PHE
1	E	248	TYR
1	E	254	ARG
1	E	255	THR
1	E	279	ILE
1	E	284	LYS
1	E	292	ARG
1	E	293	ILE
1	E	320	ARG
1	E	323	ASN
1	E	324	THR
1	E	349	ASN
1	E	356	ASP
1	E	364	ILE
1	E	370	LEU
1	E	377	GLN
1	E	385	LEU
1	E	392	THR
1	E	395	GLU
1	E	397	GLU
1	E	400	LYS
1	E	415	GLU
1	E	427	ASP
1	E	434	LEU
1	E	436	GLU
1	E	438	ASN
1	E	446	ILE

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Mol	Chain	Res	Type
1	E	451	ASN
1	E	455	TYR
1	E	469	PHE
1	E	470	ASN
1	E	473	ASN
1	E	484	VAL
1	E	501	LEU
1	E	507	GLN
1	E	514	ASP
1	E	545	THR
1	E	551	ASN
1	E	557	LEU
1	E	562	GLU
1	E	573	ASP
1	E	580	GLU
1	E	597	ASN
1	E	626	TYR
1	E	635	ILE
1	E	639	ASN
1	E	650	THR
1	E	659	THR
1	E	665	LYS
1	E	666	ASN
1	E	672	ARG
1	E	682	SER
1	E	688	PHE
1	E	709	ASN
1	E	714	GLN
1	E	744	GLU
1	E	755	ARG
1	E	766	HIS
1	E	770	ASN
1	E	781	ASN
1	F	65	ASN
1	F	71	PHE
1	F	76	LEU
1	F	82	THR
1	F	84	ASP
1	F	88	LYS
1	F	89	ILE
1	F	97	TYR
1	F	110	ASP

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Mol	Chain	Res	Type
1	F	115	LYS
1	F	117	LEU
1	F	120	LEU
1	F	122	GLU
1	F	135	VAL
1	F	140	ARG
1	F	141	PHE
1	F	147	ARG
1	F	149	THR
1	F	158	ASP
1	F	172	GLU
1	F	173	ILE
1	F	182	ILE
1	F	188	LEU
1	F	190	PRO
1	F	210	PHE
1	F	218	LEU
1	F	229	PHE
1	F	248	TYR
1	F	254	ARG
1	F	255	THR
1	F	279	ILE
1	F	284	LYS
1	F	292	ARG
1	F	293	ILE
1	F	320	ARG
1	F	323	ASN
1	F	324	THR
1	F	349	ASN
1	F	356	ASP
1	F	364	ILE
1	F	370	LEU
1	F	377	GLN
1	F	385	LEU
1	F	392	THR
1	F	395	GLU
1	F	397	GLU
1	F	400	LYS
1	F	415	GLU
1	F	427	ASP
1	F	434	LEU
1	F	436	GLU

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Mol	Chain	Res	Type
1	F	438	ASN
1	F	446	ILE
1	F	451	ASN
1	F	455	TYR
1	F	469	PHE
1	F	470	ASN
1	F	473	ASN
1	F	484	VAL
1	F	501	LEU
1	F	507	GLN
1	F	514	ASP
1	F	545	THR
1	F	551	ASN
1	F	557	LEU
1	F	562	GLU
1	F	573	ASP
1	F	580	GLU
1	F	597	ASN
1	F	626	TYR
1	F	635	ILE
1	F	639	ASN
1	F	650	THR
1	F	659	THR
1	F	665	LYS
1	F	666	ASN
1	F	672	ARG
1	F	682	SER
1	F	688	PHE
1	F	709	ASN
1	F	714	GLN
1	F	744	GLU
1	F	755	ARG
1	F	766	HIS
1	F	770	ASN
1	F	781	ASN
2	H	13	LYS
2	H	14	GLU
2	H	18	LEU
2	H	39	LEU
2	H	49	GLN
2	H	50	ASP
2	H	54	GLU

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Mol	Chain	Res	Type
2	H	55	VAL
2	H	65	PHE
2	H	67	GLU
2	H	80	ASP
2	H	83	GLU
2	H	97	ASN
2	H	104	GLU
2	H	111	ASN
2	H	117	THR
2	H	140	GLU
2	H	143	GLN
2	I	13	LYS
2	I	14	GLU
2	I	18	LEU
2	I	39	LEU
2	I	49	GLN
2	I	50	ASP
2	I	54	GLU
2	I	55	VAL
2	I	65	PHE
2	I	67	GLU
2	I	80	ASP
2	I	83	GLU
2	I	97	ASN
2	I	104	GLU
2	I	111	ASN
2	I	117	THR
2	I	140	GLU
2	I	143	GLN
2	J	13	LYS
2	J	14	GLU
2	J	18	LEU
2	J	39	LEU
2	J	49	GLN
2	J	50	ASP
2	J	54	GLU
2	J	55	VAL
2	J	65	PHE
2	J	67	GLU
2	J	80	ASP
2	J	83	GLU
2	J	97	ASN

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Mol	Chain	Res	Type
2	J	104	GLU
2	J	111	ASN
2	J	117	THR
2	J	140	GLU
2	J	143	GLN
2	K	13	LYS
2	K	14	GLU
2	K	18	LEU
2	K	39	LEU
2	K	49	GLN
2	K	50	ASP
2	K	54	GLU
2	K	55	VAL
2	K	65	PHE
2	K	67	GLU
2	K	80	ASP
2	K	83	GLU
2	K	97	ASN
2	K	104	GLU
2	K	111	ASN
2	K	117	THR
2	K	140	GLU
2	K	143	GLN
2	L	13	LYS
2	L	14	GLU
2	L	18	LEU
2	L	39	LEU
2	L	49	GLN
2	L	50	ASP
2	L	54	GLU
2	L	55	VAL
2	L	65	PHE
2	L	67	GLU
2	L	80	ASP
2	L	83	GLU
2	L	97	ASN
2	L	104	GLU
2	L	111	ASN
2	L	117	THR
2	L	140	GLU
2	L	143	GLN
2	M	13	LYS

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Mol	Chain	Res	Type
2	M	14	GLU
2	M	18	LEU
2	M	39	LEU
2	M	49	GLN
2	M	50	ASP
2	M	54	GLU
2	M	55	VAL
2	M	65	PHE
2	M	67	GLU
2	M	80	ASP
2	M	83	GLU
2	M	97	ASN
2	M	104	GLU
2	M	111	ASN
2	M	117	THR
2	M	140	GLU
2	M	143	GLN

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (227) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	80	GLN
1	A	129	ASN
1	A	155	ASN
1	A	165	GLN
1	A	212	GLN
1	A	239	HIS
1	A	323	ASN
1	A	332	ASN
1	A	337	ASN
1	A	349	ASN
1	A	351	HIS
1	A	377	GLN
1	A	387	ASN
1	A	438	ASN
1	A	507	GLN
1	A	510	GLN
1	A	518	ASN
1	A	551	ASN
1	A	553	GLN
1	A	581	GLN
1	A	597	ASN

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Mol	Chain	Res	Type
1	A	629	ASN
1	A	639	ASN
1	A	655	ASN
1	A	666	ASN
1	A	709	ASN
1	A	730	ASN
1	A	747	ASN
1	A	758	ASN
1	A	767	GLN
1	A	770	ASN
1	A	781	ASN
1	A	794	GLN
1	B	80	GLN
1	B	129	ASN
1	B	155	ASN
1	B	165	GLN
1	B	212	GLN
1	B	239	HIS
1	B	323	ASN
1	B	332	ASN
1	B	337	ASN
1	B	349	ASN
1	B	351	HIS
1	B	377	GLN
1	B	387	ASN
1	B	438	ASN
1	B	507	GLN
1	B	510	GLN
1	B	518	ASN
1	B	551	ASN
1	B	553	GLN
1	B	581	GLN
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	758	ASN
1	B	767	GLN
1	B	770	ASN
1	B	781	ASN

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Mol	Chain	Res	Type
1	B	794	GLN
1	C	80	GLN
1	C	129	ASN
1	C	155	ASN
1	C	165	GLN
1	C	212	GLN
1	C	239	HIS
1	C	323	ASN
1	C	332	ASN
1	C	337	ASN
1	C	349	ASN
1	C	351	HIS
1	C	377	GLN
1	C	387	ASN
1	C	438	ASN
1	C	507	GLN
1	C	510	GLN
1	C	518	ASN
1	C	551	ASN
1	C	553	GLN
1	C	581	GLN
1	C	629	ASN
1	C	639	ASN
1	C	655	ASN
1	C	666	ASN
1	C	709	ASN
1	C	730	ASN
1	C	747	ASN
1	C	758	ASN
1	C	767	GLN
1	C	770	ASN
1	C	781	ASN
1	C	794	GLN
1	D	80	GLN
1	D	129	ASN
1	D	155	ASN
1	D	165	GLN
1	D	212	GLN
1	D	239	HIS
1	D	323	ASN
1	D	332	ASN
1	D	337	ASN

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Mol	Chain	Res	Type
1	D	349	ASN
1	D	351	HIS
1	D	377	GLN
1	D	387	ASN
1	D	438	ASN
1	D	507	GLN
1	D	510	GLN
1	D	518	ASN
1	D	551	ASN
1	D	553	GLN
1	D	581	GLN
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	758	ASN
1	D	767	GLN
1	D	770	ASN
1	D	781	ASN
1	D	794	GLN
1	E	80	GLN
1	E	129	ASN
1	E	165	GLN
1	E	212	GLN
1	E	239	HIS
1	E	323	ASN
1	E	332	ASN
1	E	337	ASN
1	E	349	ASN
1	E	351	HIS
1	E	377	GLN
1	E	387	ASN
1	E	438	ASN
1	E	507	GLN
1	E	510	GLN
1	E	518	ASN
1	E	551	ASN
1	E	553	GLN
1	E	581	GLN
1	E	597	ASN

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Mol	Chain	Res	Type
1	E	629	ASN
1	E	639	ASN
1	E	655	ASN
1	E	666	ASN
1	E	709	ASN
1	E	730	ASN
1	E	747	ASN
1	E	758	ASN
1	E	767	GLN
1	E	770	ASN
1	E	781	ASN
1	E	794	GLN
1	F	80	GLN
1	F	129	ASN
1	F	155	ASN
1	F	165	GLN
1	F	212	GLN
1	F	239	HIS
1	F	323	ASN
1	F	332	ASN
1	F	337	ASN
1	F	349	ASN
1	F	351	HIS
1	F	377	GLN
1	F	387	ASN
1	F	438	ASN
1	F	507	GLN
1	F	510	GLN
1	F	518	ASN
1	F	551	ASN
1	F	553	GLN
1	F	581	GLN
1	F	597	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	758	ASN
1	F	767	GLN
1	F	770	ASN

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Mol	Chain	Res	Type
1	F	781	ASN
1	F	794	GLN
2	H	8	GLN
2	H	41	GLN
2	H	49	GLN
2	H	111	ASN
2	H	135	GLN
2	H	143	GLN
2	I	8	GLN
2	I	41	GLN
2	I	49	GLN
2	I	111	ASN
2	I	135	GLN
2	I	143	GLN
2	J	8	GLN
2	J	41	GLN
2	J	49	GLN
2	J	111	ASN
2	J	135	GLN
2	J	143	GLN
2	K	8	GLN
2	K	41	GLN
2	K	49	GLN
2	K	111	ASN
2	K	135	GLN
2	K	143	GLN
2	L	8	GLN
2	L	41	GLN
2	L	49	GLN
2	L	111	ASN
2	L	135	GLN
2	L	143	GLN
2	M	8	GLN
2	M	41	GLN
2	M	49	GLN
2	M	111	ASN
2	M	135	GLN
2	M	143	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry ⓘ

Of 30 ligands modelled in this entry, 24 are monoatomic - leaving 6 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
4	POP	C	903	-	6,8,8	0.93	0	13,13,13	1.39	3 (23%)
4	POP	D	904	-	6,8,8	0.93	0	13,13,13	1.39	3 (23%)
4	POP	A	901	-	6,8,8	0.92	0	13,13,13	1.39	3 (23%)
4	POP	F	906	-	6,8,8	0.93	0	13,13,13	1.40	3 (23%)
4	POP	E	905	-	6,8,8	0.93	0	13,13,13	1.39	3 (23%)
4	POP	B	902	-	6,8,8	0.93	0	13,13,13	1.39	3 (23%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	POP	C	903	-	-	2/6/6/6	-
4	POP	D	904	-	-	2/6/6/6	-
4	POP	A	901	-	-	2/6/6/6	-
4	POP	F	906	-	-	2/6/6/6	-
4	POP	E	905	-	-	2/6/6/6	-
4	POP	B	902	-	-	2/6/6/6	-

There are no bond length outliers.

All (18) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	F	906	POP	O5-P2-O4	-2.66	100.26	110.68
4	C	903	POP	O5-P2-O4	-2.66	100.28	110.68
4	B	902	POP	O5-P2-O4	-2.66	100.28	110.68
4	D	904	POP	O5-P2-O4	-2.66	100.28	110.68
4	E	905	POP	O5-P2-O4	-2.65	100.31	110.68
4	A	901	POP	O5-P2-O4	-2.65	100.33	110.68
4	C	903	POP	O6-P2-O4	2.63	120.98	110.68
4	F	906	POP	O6-P2-O4	2.63	120.96	110.68
4	D	904	POP	O6-P2-O4	2.62	120.96	110.68
4	E	905	POP	O6-P2-O4	2.62	120.94	110.68
4	A	901	POP	O6-P2-O4	2.61	120.92	110.68
4	B	902	POP	O6-P2-O4	2.61	120.91	110.68
4	A	901	POP	O5-P2-O	2.29	112.32	104.64
4	B	902	POP	O5-P2-O	2.29	112.31	104.64
4	F	906	POP	O5-P2-O	2.29	112.30	104.64
4	E	905	POP	O5-P2-O	2.28	112.29	104.64
4	D	904	POP	O5-P2-O	2.28	112.29	104.64
4	C	903	POP	O5-P2-O	2.28	112.27	104.64

There are no chirality outliers.

All (12) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	D	904	POP	P1-O-P2-O6
4	C	903	POP	P1-O-P2-O6
4	A	901	POP	P1-O-P2-O6
4	E	905	POP	P1-O-P2-O6
4	B	902	POP	P1-O-P2-O6
4	F	906	POP	P1-O-P2-O6
4	D	904	POP	P1-O-P2-O4
4	C	903	POP	P1-O-P2-O4
4	A	901	POP	P1-O-P2-O4
4	E	905	POP	P1-O-P2-O4
4	B	902	POP	P1-O-P2-O4
4	F	906	POP	P1-O-P2-O4

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2		OWAB(Å ²)	Q<0.9
1	A	735/777 (94%)	0.16	36 (4%)	29 18	28, 83, 137, 147	0
1	B	735/777 (94%)	0.16	37 (5%)	28 18	27, 83, 138, 147	0
1	C	735/777 (94%)	0.19	38 (5%)	27 17	28, 83, 138, 147	0
1	D	735/777 (94%)	0.11	33 (4%)	33 21	27, 84, 137, 147	0
1	E	735/777 (94%)	0.14	39 (5%)	26 16	28, 83, 138, 147	0
1	F	735/777 (94%)	0.17	36 (4%)	29 18	27, 84, 137, 147	0
2	H	146/146 (100%)	0.01	2 (1%)	75 61	26, 72, 130, 135	0
2	I	146/146 (100%)	-0.03	3 (2%)	63 48	27, 71, 130, 135	0
2	J	146/146 (100%)	-0.03	2 (1%)	75 61	26, 72, 130, 135	0
2	K	146/146 (100%)	-0.02	1 (0%)	87 78	27, 71, 129, 135	0
2	L	146/146 (100%)	0.01	2 (1%)	75 61	25, 71, 129, 135	0
2	M	146/146 (100%)	0.02	4 (2%)	54 38	25, 71, 130, 135	0
All	All	5286/5538 (95%)	0.13	233 (4%)	34 21	25, 81, 136, 147	0

All (233) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	185	ASP	10.4
1	B	229	PHE	9.3
1	C	205	SER	9.1
1	A	230	ILE	8.6
1	F	185	ASP	8.2
1	B	230	ILE	8.2
1	E	229	PHE	8.1
1	F	230	ILE	7.9
1	C	185	ASP	7.7
1	A	185	ASP	7.5
1	D	237	PHE	7.5

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Mol	Chain	Res	Type	RSRZ
1	B	237	PHE	7.4
1	F	237	PHE	7.2
1	E	185	ASP	6.9
1	F	229	PHE	6.8
1	E	205	SER	6.5
1	A	229	PHE	6.5
1	C	230	ILE	6.5
1	D	229	PHE	6.4
1	C	237	PHE	6.4
1	A	237	PHE	6.4
1	E	230	ILE	6.2
1	D	230	ILE	5.9
1	D	226	ASP	5.7
1	A	171	TYR	5.7
1	C	229	PHE	5.6
1	B	171	TYR	5.6
1	F	212	GLN	5.6
1	C	226	ASP	5.6
1	F	171	TYR	5.5
1	C	204	ASP	5.5
1	E	171	TYR	5.4
1	B	186	LYS	5.3
1	E	237	PHE	5.1
1	E	226	ASP	5.1
1	A	186	LYS	5.0
1	C	72	THR	5.0
1	A	226	ASP	5.0
1	A	212	GLN	4.9
1	C	206	SER	4.9
1	F	184	LYS	4.9
1	A	205	SER	4.9
1	D	171	TYR	4.9
1	C	171	TYR	4.8
1	E	207	ASP	4.7
1	C	190	PRO	4.7
1	B	226	ASP	4.7
1	C	186	LYS	4.6
1	B	184	LYS	4.5
1	D	205	SER	4.5
1	B	206	SER	4.4
1	B	162	ASN	4.4
1	B	212	GLN	4.4

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Mol	Chain	Res	Type	RSRZ
1	B	126	ASN	4.2
1	B	190	PRO	4.1
1	F	186	LYS	4.1
1	C	207	ASP	4.0
1	E	206	SER	4.0
1	D	214	PHE	4.0
1	F	205	SER	3.9
1	A	184	LYS	3.9
1	D	185	ASP	3.9
1	E	72	THR	3.9
1	F	206	SER	3.9
1	B	228	ASN	3.8
1	A	218	LEU	3.6
1	C	212	GLN	3.5
1	A	131	ARG	3.5
1	F	162	ASN	3.5
1	F	218	LEU	3.5
1	C	228	ASN	3.4
1	C	221	ASN	3.4
1	A	214	PHE	3.4
1	E	421	LYS	3.4
1	C	184	LYS	3.4
1	B	205	SER	3.4
1	E	212	GLN	3.4
1	E	184	LYS	3.4
1	D	186	LYS	3.4
1	C	241	PHE	3.3
1	C	213	LYS	3.3
1	E	162	ASN	3.3
1	D	131	ARG	3.3
1	B	213	LYS	3.2
1	A	489	THR	3.2
1	A	241	PHE	3.2
1	E	158	ASP	3.2
1	A	245	PHE	3.2
1	B	359	PRO	3.2
1	D	213	LYS	3.1
1	F	93	VAL	3.1
1	E	433	TYR	3.1
1	A	206	SER	3.1
1	B	328	PHE	3.1
1	E	186	LYS	3.1

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Mol	Chain	Res	Type	RSRZ
1	E	339	ILE	3.1
1	D	190	PRO	3.1
1	F	226	ASP	3.1
1	D	339	ILE	3.1
1	F	190	PRO	3.1
1	C	218	LEU	3.1
1	F	168	GLU	3.0
1	D	225	ILE	3.0
1	B	218	LEU	3.0
1	E	163	SER	3.0
1	E	359	PRO	3.0
1	B	207	ASP	3.0
1	F	433	TYR	2.9
1	A	228	ASN	2.9
1	D	241	PHE	2.9
1	E	213	LYS	2.9
1	B	125	LYS	2.9
1	C	763	LEU	2.9
1	F	228	ASN	2.9
1	D	490	ALA	2.8
1	A	359	PRO	2.8
1	E	525	LYS	2.8
1	F	214	PHE	2.8
1	C	254	ARG	2.8
1	D	204	ASP	2.8
1	C	227	ILE	2.8
1	E	204	ASP	2.8
2	K	18	LEU	2.8
1	D	207	ASP	2.8
1	A	162	ASN	2.8
1	A	161	ILE	2.7
1	D	359	PRO	2.7
1	F	494	LEU	2.7
1	B	163	SER	2.7
1	A	190	PRO	2.7
1	D	276	PHE	2.7
1	C	494	LEU	2.6
1	B	489	THR	2.6
2	M	78	ASP	2.6
1	C	449	GLU	2.6
1	E	245	PHE	2.6
1	C	93	VAL	2.6

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Mol	Chain	Res	Type	RSRZ
1	E	192	PHE	2.6
1	A	86	LEU	2.6
1	A	405	LEU	2.6
1	F	258	GLU	2.6
1	F	72	THR	2.6
1	E	228	ASN	2.6
1	F	241	PHE	2.6
1	F	160	ALA	2.6
1	D	118	GLN	2.5
1	E	363	TYR	2.5
1	D	363	TYR	2.5
1	D	701	LEU	2.5
1	D	212	GLN	2.5
1	E	168	GLU	2.5
1	D	218	LEU	2.5
2	J	18	LEU	2.5
1	F	260	TYR	2.4
1	B	494	LEU	2.4
1	E	494	LEU	2.4
2	L	18	LEU	2.4
1	B	400	LYS	2.4
1	E	254	ARG	2.4
1	B	217	LYS	2.4
1	B	257	LEU	2.4
1	F	207	ASP	2.4
2	I	15	ALA	2.4
2	M	112	LEU	2.4
1	C	490	ALA	2.4
1	E	214	PHE	2.3
1	F	339	ILE	2.3
1	C	181	ILE	2.3
1	F	86	LEU	2.3
1	A	192	PHE	2.3
1	D	254	ARG	2.3
1	D	525	LYS	2.3
1	E	190	PRO	2.3
1	D	492	TYR	2.3
2	I	18	LEU	2.3
2	L	19	PHE	2.3
1	C	421	LYS	2.3
1	B	331	VAL	2.3
1	E	225	ILE	2.2

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Mol	Chain	Res	Type	RSRZ
1	E	218	LEU	2.2
1	A	160	ALA	2.2
2	H	18	LEU	2.2
1	F	492	TYR	2.2
2	J	19	PHE	2.2
1	A	168	GLU	2.2
1	A	213	LYS	2.2
1	E	489	THR	2.2
1	B	198	SER	2.2
1	C	793	PHE	2.2
1	B	168	GLU	2.2
1	B	398	ILE	2.2
1	B	420	LEU	2.2
1	B	245	PHE	2.2
1	F	701	LEU	2.2
1	A	360	VAL	2.2
1	B	131	ARG	2.2
1	D	168	GLU	2.2
1	A	525	LYS	2.1
2	M	19	PHE	2.1
1	A	126	ASN	2.1
1	E	118	GLN	2.1
1	D	245	PHE	2.1
1	F	227	ILE	2.1
2	H	19	PHE	2.1
1	C	257	LEU	2.1
1	A	118	GLN	2.1
1	C	131	ARG	2.1
1	A	363	TYR	2.1
1	A	93	VAL	2.1
1	B	192	PHE	2.1
2	M	18	LEU	2.1
1	A	701	LEU	2.1
1	C	532	LEU	2.1
1	D	494	LEU	2.1
1	E	93	VAL	2.1
1	F	560	LEU	2.1
1	F	245	PHE	2.1
1	F	297	LYS	2.1
1	D	86	LEU	2.1
1	E	405	LEU	2.1
1	C	168	GLU	2.0

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Mol	Chain	Res	Type	RSRZ
1	F	421	LYS	2.0
1	A	497	LEU	2.0
1	C	350	VAL	2.0
1	D	793	PHE	2.0
1	B	405	LEU	2.0
1	E	701	LEU	2.0
1	C	664	ILE	2.0
1	B	363	TYR	2.0
1	C	268	MET	2.0
1	C	420	LEU	2.0
1	F	315	PHE	2.0
2	I	39	LEU	2.0

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

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

6.3 Carbohydrates ⓘ

There are no carbohydrates in this entry.

6.4 Ligands ⓘ

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. 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
4	POP	C	903	9/9	0.76	0.21	74,83,88,88	0
4	POP	B	902	9/9	0.78	0.28	76,85,88,89	0
4	POP	F	906	9/9	0.79	0.18	74,84,86,86	0
4	POP	A	901	9/9	0.80	0.18	76,84,85,86	0
4	POP	D	904	9/9	0.84	0.16	75,82,86,88	0
3	MG	F	905	1/1	0.88	0.27	14,14,14,14	0
5	CA	I	804	1/1	0.90	0.18	50,50,50,50	0
4	POP	E	905	9/9	0.92	0.12	77,85,87,88	0
5	CA	M	711	1/1	0.93	0.19	86,86,86,86	0
5	CA	L	709	1/1	0.93	0.18	75,75,75,75	0
3	MG	A	900	1/1	0.93	0.33	11,11,11,11	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
3	MG	B	901	1/1	0.94	0.28	10,10,10,10	0
5	CA	H	701	1/1	0.94	0.15	77,77,77,77	0
5	CA	K	707	1/1	0.95	0.20	73,73,73,73	0
5	CA	I	703	1/1	0.95	0.17	73,73,73,73	0
5	CA	J	806	1/1	0.95	0.21	44,44,44,44	0
5	CA	I	803	1/1	0.95	0.14	24,24,24,24	0
5	CA	H	802	1/1	0.95	0.21	51,51,51,51	0
5	CA	M	812	1/1	0.95	0.24	48,48,48,48	0
5	CA	M	811	1/1	0.95	0.14	33,33,33,33	0
5	CA	K	808	1/1	0.95	0.21	47,47,47,47	0
3	MG	E	904	1/1	0.96	0.38	9,9,9,9	0
3	MG	C	902	1/1	0.96	0.24	5,5,5,5	0
3	MG	D	903	1/1	0.97	0.30	8,8,8,8	0
5	CA	H	801	1/1	0.97	0.12	29,29,29,29	0
5	CA	J	805	1/1	0.97	0.15	28,28,28,28	0
5	CA	L	810	1/1	0.97	0.21	51,51,51,51	0
5	CA	K	807	1/1	0.98	0.12	34,34,34,34	0
5	CA	L	809	1/1	0.98	0.15	28,28,28,28	0
5	CA	J	705	1/1	0.99	0.23	72,72,72,72	0

6.5 Other polymers [i](#)

There are no such residues in this entry.