



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 12, 2026 – 06:38 PM UTC

PDB ID : 4S0R / pdb_00004s0r
Title : Structure of GS-ThrA complex
Authors : Schumacher, M.A.; Chinnam, N.G.; Cuthbert, B.; Tonthat, N.K.
Deposited on : 2015-01-04
Resolution : 3.50 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

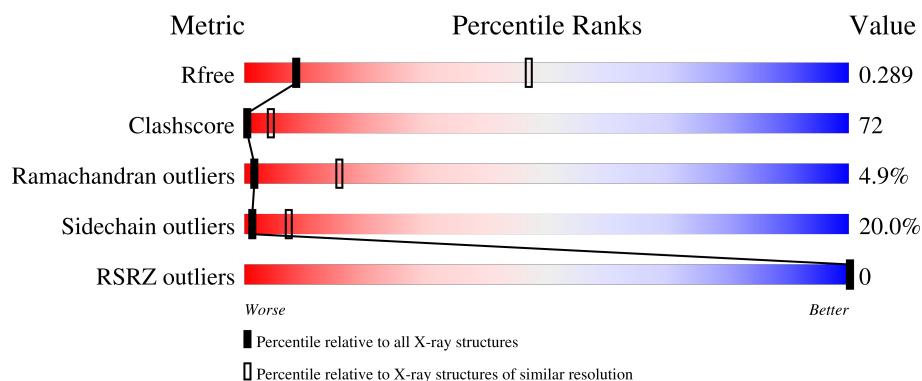
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.50 Å.

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



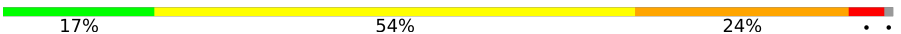
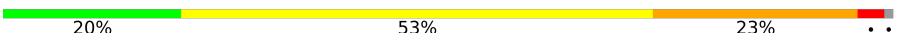
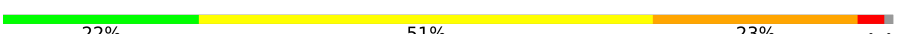
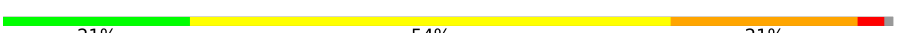
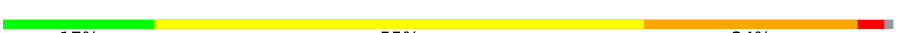
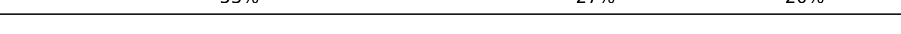
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	1085 (3.54-3.46)
Clashscore	190562	1140 (3.54-3.46)
Ramachandran outliers	187476	1113 (3.54-3.46)
Sidechain outliers	187428	1114 (3.54-3.46)
RSRZ outliers	180081	1084 (3.54-3.46)

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

Mol	Chain	Length	Quality of chain
1	A	447	 20% 53% 23% ..
1	B	447	 17% 53% 26% ..
1	C	447	 17% 55% 23% ..
1	D	447	 19% 51% 26% .
1	E	447	 17% 54% 25% ..

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Mol	Chain	Length	Quality of chain
1	F	447	
1	G	447	
1	H	447	
1	I	447	
1	J	447	
1	K	447	
1	L	447	
1	M	447	
1	N	447	
2	1	15	
2	2	15	
2	O	15	
2	P	15	
2	Q	15	
2	R	15	
2	S	15	
2	T	15	
2	U	15	
2	V	15	
2	W	15	
2	X	15	
2	Y	15	
2	Z	15	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	GLN	B	501	-	-	X	-

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 51555 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 Glutamine synthetase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	443	Total	C	N	O	S	0	0	0
			3535	2259	590	670	16			
1	B	443	Total	C	N	O	S	0	0	0
			3535	2259	590	670	16			
1	C	443	Total	C	N	O	S	0	0	0
			3535	2259	590	670	16			
1	D	447	Total	C	N	O	S	0	0	0
			3563	2275	596	675	17			
1	E	443	Total	C	N	O	S	0	0	0
			3535	2259	590	670	16			
1	F	443	Total	C	N	O	S	0	0	0
			3535	2259	590	670	16			
1	G	443	Total	C	N	O	S	0	0	0
			3535	2259	590	670	16			
1	H	443	Total	C	N	O	S	0	0	0
			3535	2259	590	670	16			
1	I	443	Total	C	N	O	S	0	0	0
			3535	2259	590	670	16			
1	J	443	Total	C	N	O	S	0	0	0
			3535	2259	590	670	16			
1	K	443	Total	C	N	O	S	0	0	0
			3535	2259	590	670	16			
1	L	443	Total	C	N	O	S	0	0	0
			3535	2259	590	670	16			
1	M	443	Total	C	N	O	S	0	0	0
			3535	2259	590	670	16			
1	N	443	Total	C	N	O	S	0	0	0
			3535	2259	590	670	16			

There are 42 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-2	GLY	-	expression tag	UNP P12425

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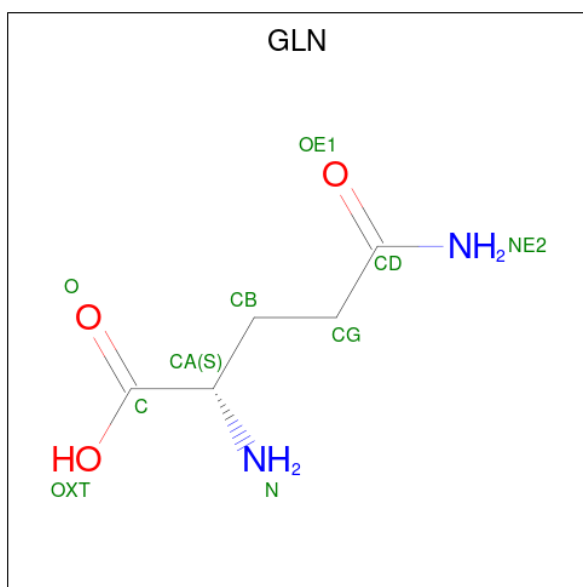
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Chain	Residue	Modelled	Actual	Comment	Reference
A	-1	SER	-	expression tag	UNP P12425
A	0	HIS	-	expression tag	UNP P12425
B	-2	GLY	-	expression tag	UNP P12425
B	-1	SER	-	expression tag	UNP P12425
B	0	HIS	-	expression tag	UNP P12425
C	-2	GLY	-	expression tag	UNP P12425
C	-1	SER	-	expression tag	UNP P12425
C	0	HIS	-	expression tag	UNP P12425
D	-2	GLY	-	expression tag	UNP P12425
D	-1	SER	-	expression tag	UNP P12425
D	0	HIS	-	expression tag	UNP P12425
E	-2	GLY	-	expression tag	UNP P12425
E	-1	SER	-	expression tag	UNP P12425
E	0	HIS	-	expression tag	UNP P12425
F	-2	GLY	-	expression tag	UNP P12425
F	-1	SER	-	expression tag	UNP P12425
F	0	HIS	-	expression tag	UNP P12425
G	-2	GLY	-	expression tag	UNP P12425
G	-1	SER	-	expression tag	UNP P12425
G	0	HIS	-	expression tag	UNP P12425
H	-2	GLY	-	expression tag	UNP P12425
H	-1	SER	-	expression tag	UNP P12425
H	0	HIS	-	expression tag	UNP P12425
I	-2	GLY	-	expression tag	UNP P12425
I	-1	SER	-	expression tag	UNP P12425
I	0	HIS	-	expression tag	UNP P12425
J	-2	GLY	-	expression tag	UNP P12425
J	-1	SER	-	expression tag	UNP P12425
J	0	HIS	-	expression tag	UNP P12425
K	-2	GLY	-	expression tag	UNP P12425
K	-1	SER	-	expression tag	UNP P12425
K	0	HIS	-	expression tag	UNP P12425
L	-2	GLY	-	expression tag	UNP P12425
L	-1	SER	-	expression tag	UNP P12425
L	0	HIS	-	expression tag	UNP P12425
M	-2	GLY	-	expression tag	UNP P12425
M	-1	SER	-	expression tag	UNP P12425
M	0	HIS	-	expression tag	UNP P12425
N	-2	GLY	-	expression tag	UNP P12425
N	-1	SER	-	expression tag	UNP P12425
N	0	HIS	-	expression tag	UNP P12425

- Molecule 2 is a protein called TnrA peptide.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	O	15	Total 133	C 82	N 28	O 22	S 1	0	0	0
2	P	15	Total 133	C 82	N 28	O 22	S 1	0	0	0
2	Q	15	Total 133	C 82	N 28	O 22	S 1	0	0	0
2	R	15	Total 133	C 82	N 28	O 22	S 1	0	0	0
2	S	15	Total 133	C 82	N 28	O 22	S 1	0	0	0
2	T	15	Total 133	C 82	N 28	O 22	S 1	0	0	0
2	U	15	Total 133	C 82	N 28	O 22	S 1	0	0	0
2	V	15	Total 133	C 82	N 28	O 22	S 1	0	0	0
2	W	15	Total 133	C 82	N 28	O 22	S 1	0	0	0
2	X	15	Total 133	C 82	N 28	O 22	S 1	0	0	0
2	Y	15	Total 133	C 82	N 28	O 22	S 1	0	0	0
2	Z	15	Total 133	C 82	N 28	O 22	S 1	0	0	0
2	1	15	Total 132	C 82	N 28	O 21	S 1	0	0	0
2	2	15	Total 133	C 82	N 28	O 22	S 1	0	0	0

- Molecule 3 is GLUTAMINE (CCD ID: GLN) (formula: $C_5H_{10}N_2O_3$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	N	O	0	0
			9	5	2	2		
3	B	1	Total	C	N	O	0	0
			9	5	2	2		
3	C	1	Total	C	N	O	0	0
			10	5	2	3		
3	D	1	Total	C	N	O	0	0
			9	5	2	2		
3	E	1	Total	C	N	O	0	0
			9	5	2	2		
3	F	1	Total	C	N	O	0	0
			9	5	2	2		
3	G	1	Total	C	N	O	0	0
			9	5	2	2		
3	H	1	Total	C	N	O	0	0
			9	5	2	2		
3	I	1	Total	C	N	O	0	0
			9	5	2	2		
3	J	1	Total	C	N	O	0	0
			9	5	2	2		
3	K	1	Total	C	N	O	0	0
			9	5	2	2		
3	L	1	Total	C	N	O	0	0
			10	5	2	3		
3	M	1	Total	C	N	O	0	0
			10	5	2	3		
3	N	1	Total	C	N	O	0	0
			9	5	2	2		

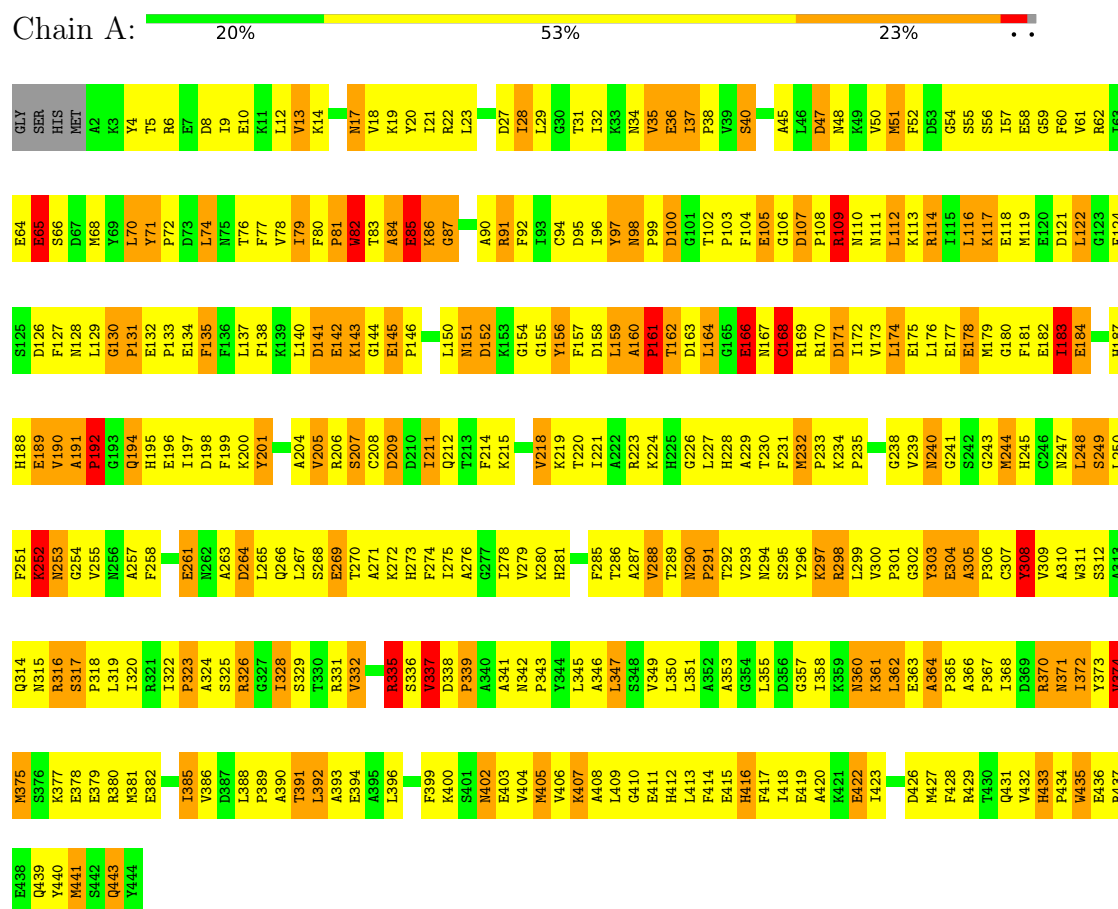
- Molecule 4 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	4	Total 4	Mg 4	0	0
4	B	3	Total 3	Mg 3	0	0
4	C	7	Total 7	Mg 7	0	0
4	D	8	Total 8	Mg 8	0	0
4	E	2	Total 2	Mg 2	0	0
4	F	3	Total 3	Mg 3	0	0
4	G	1	Total 1	Mg 1	0	0
4	H	3	Total 3	Mg 3	0	0
4	I	2	Total 2	Mg 2	0	0
4	J	3	Total 3	Mg 3	0	0
4	K	3	Total 3	Mg 3	0	0
4	L	3	Total 3	Mg 3	0	0
4	M	3	Total 3	Mg 3	0	0
4	N	2	Total 2	Mg 2	0	0

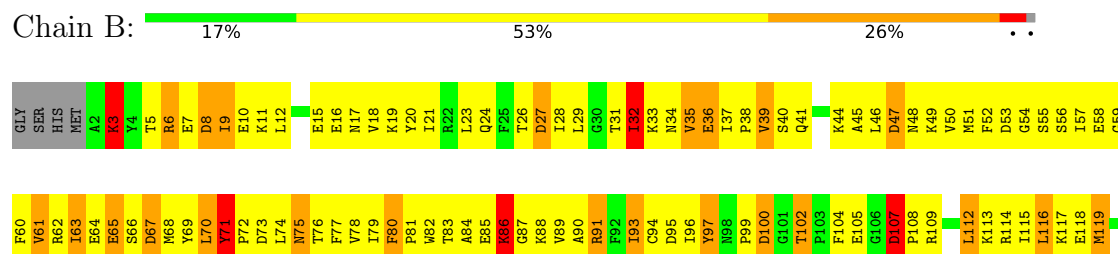
3 Residue-property plots

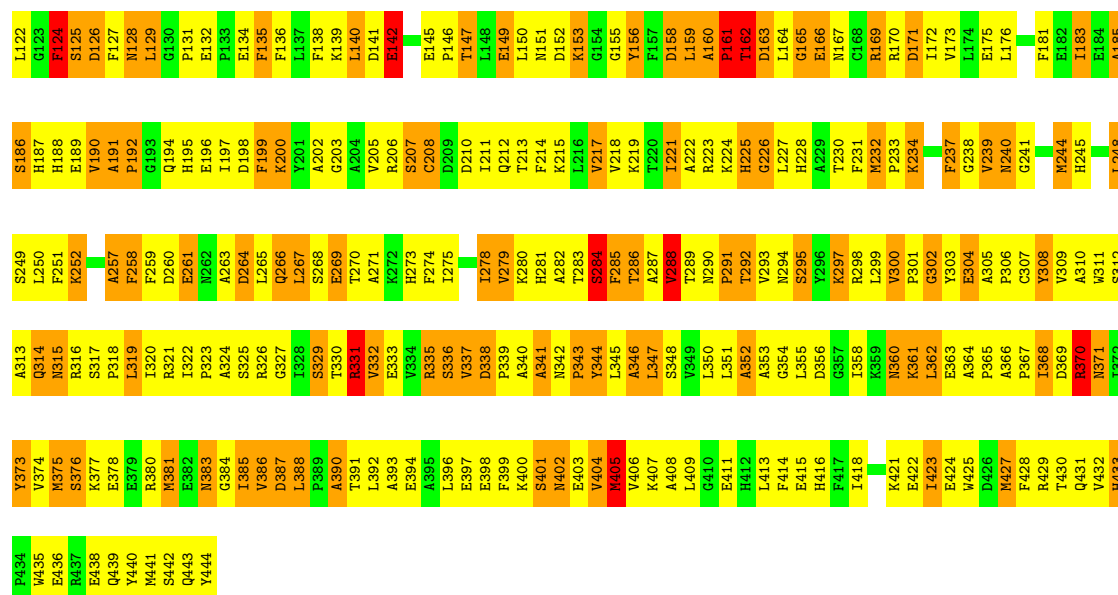
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

• Molecule 1: Glutamine synthetase



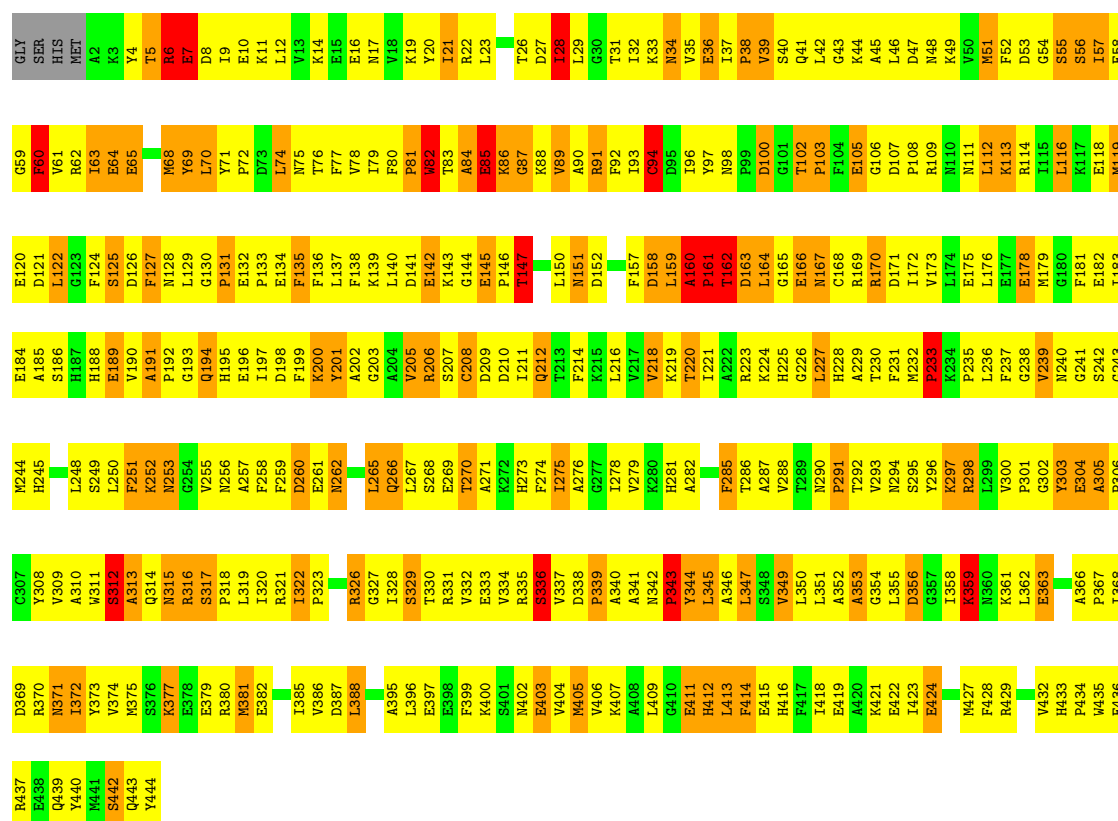
• Molecule 1: Glutamine synthetase





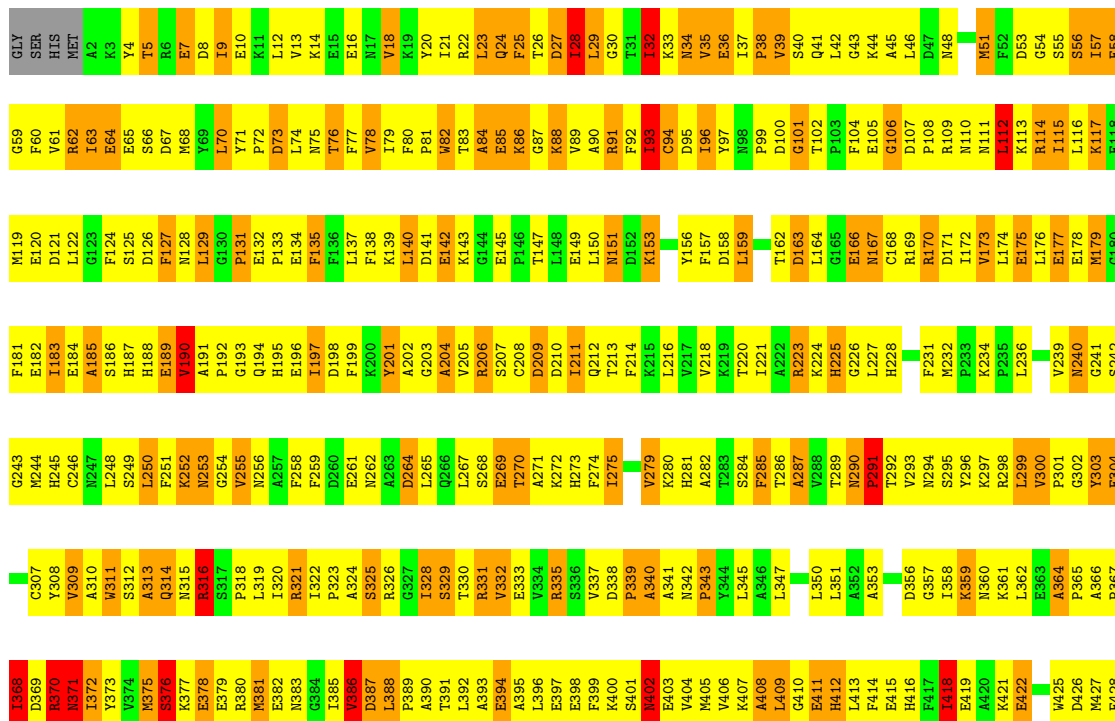
• Molecule 1: Glutamine synthetase

Chain C: 17% 55% 23%



• Molecule 1: Glutamine synthetase

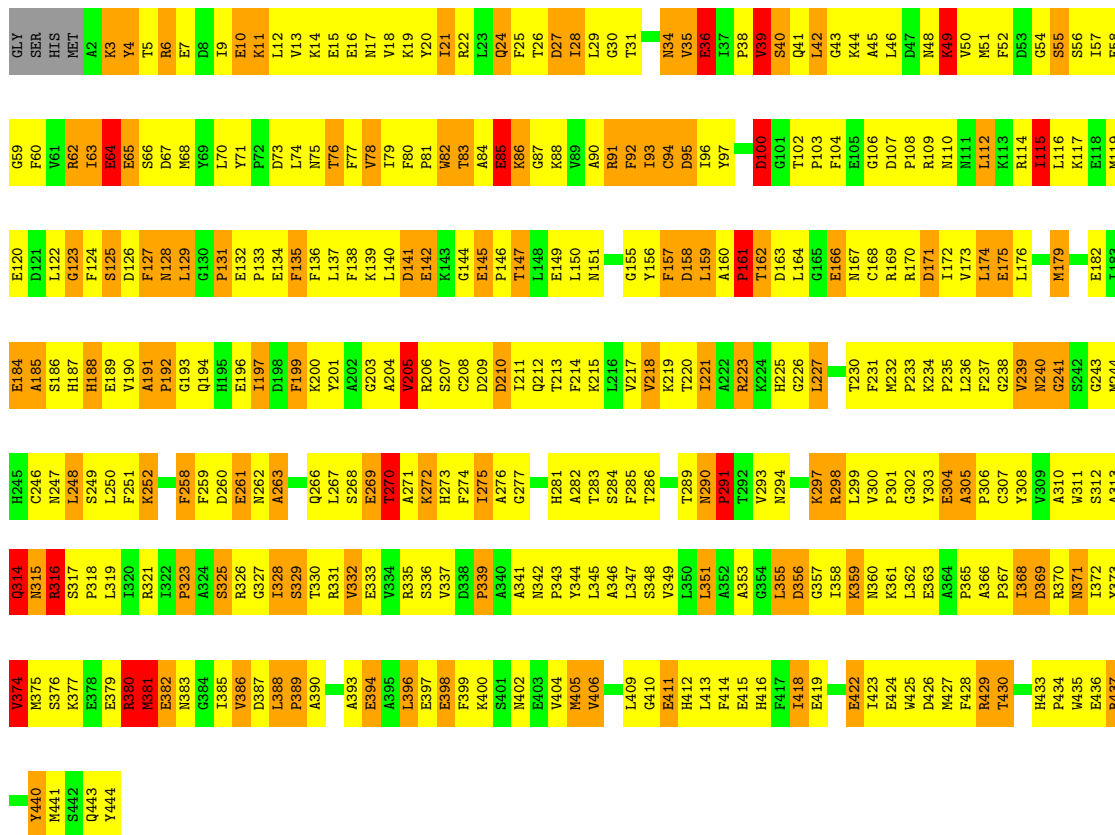
Chain D: 19% 51% 26%





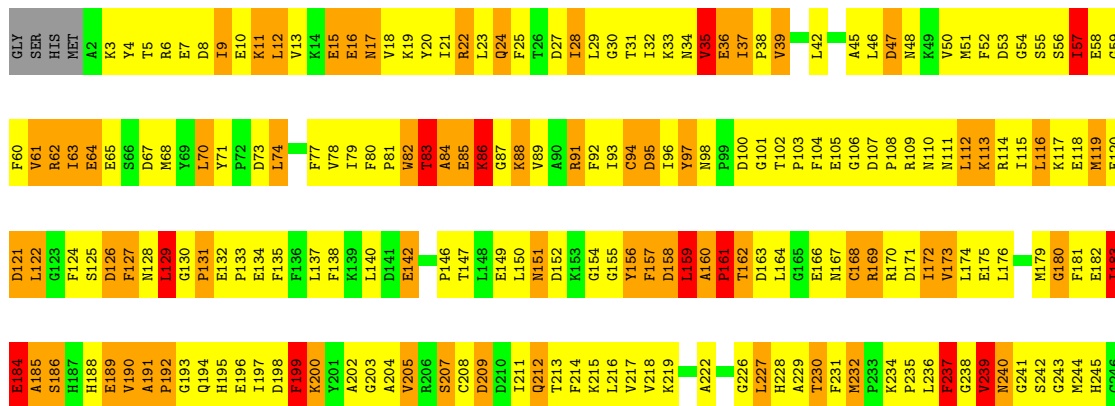
• Molecule 1: Glutamine synthetase

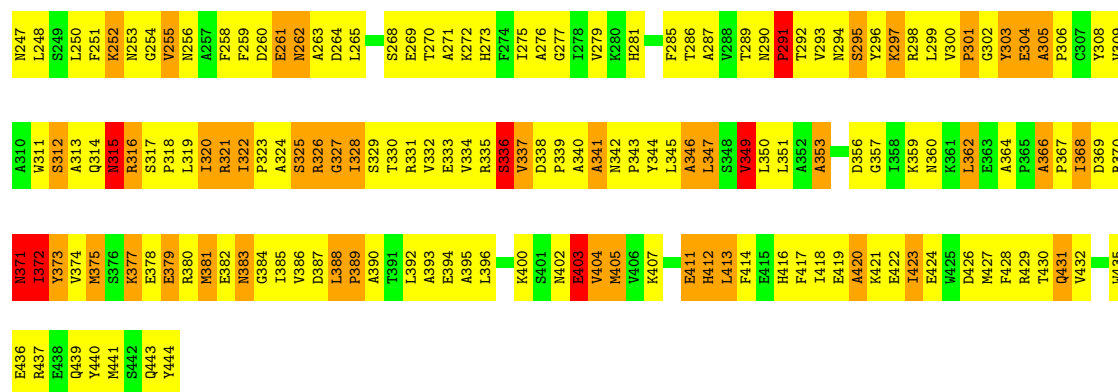
Chain F: 19% 53% 24% . .



• Molecule 1: Glutamine synthetase

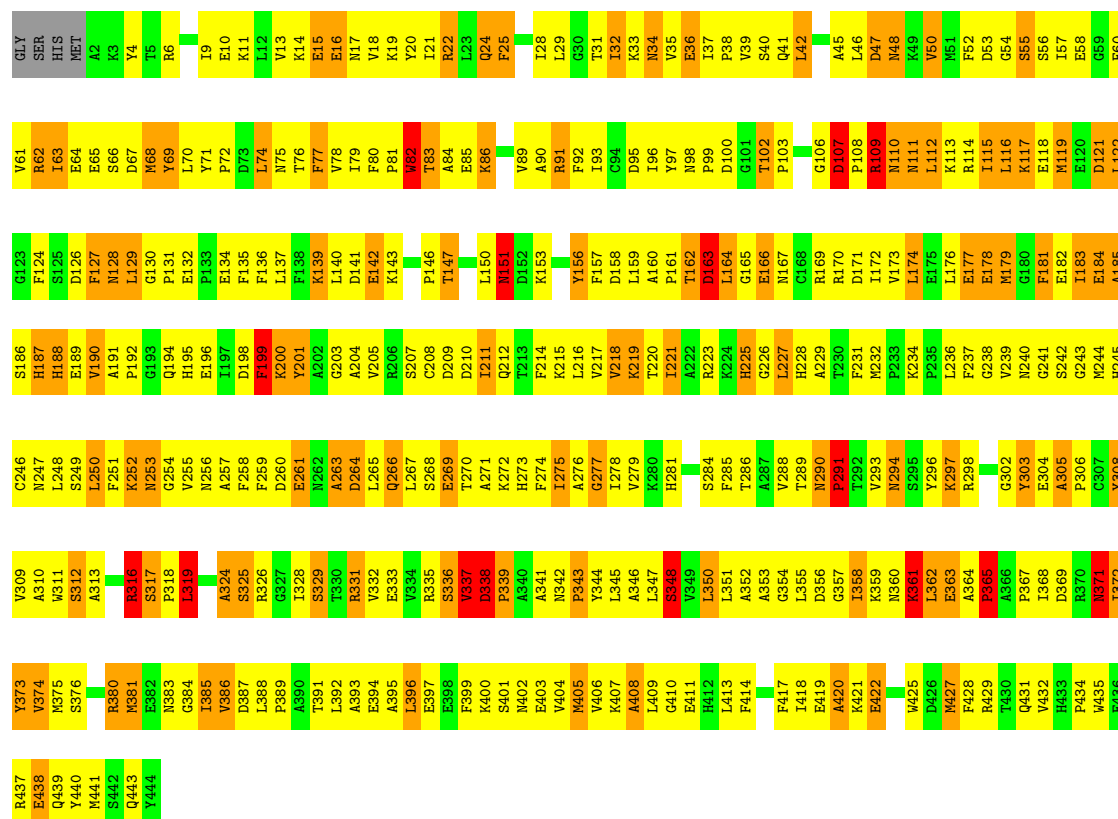
Chain G: 17% 54% 24% . .





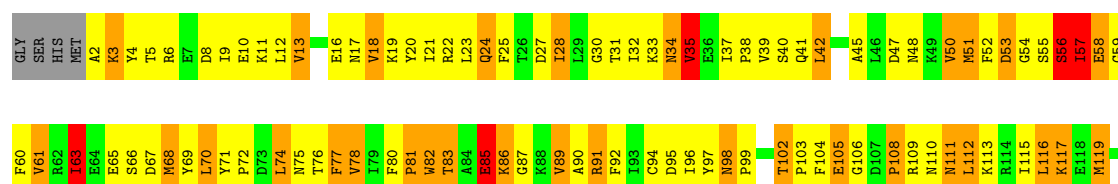
• Molecule 1: Glutamine synthetase

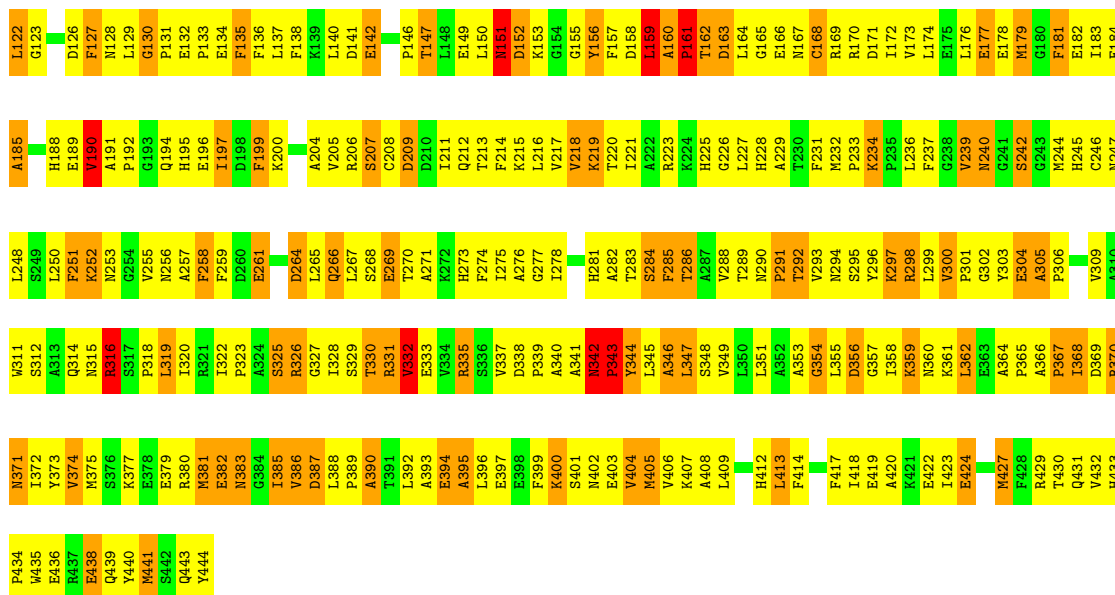
Chain H: 20% 53% 23% ..



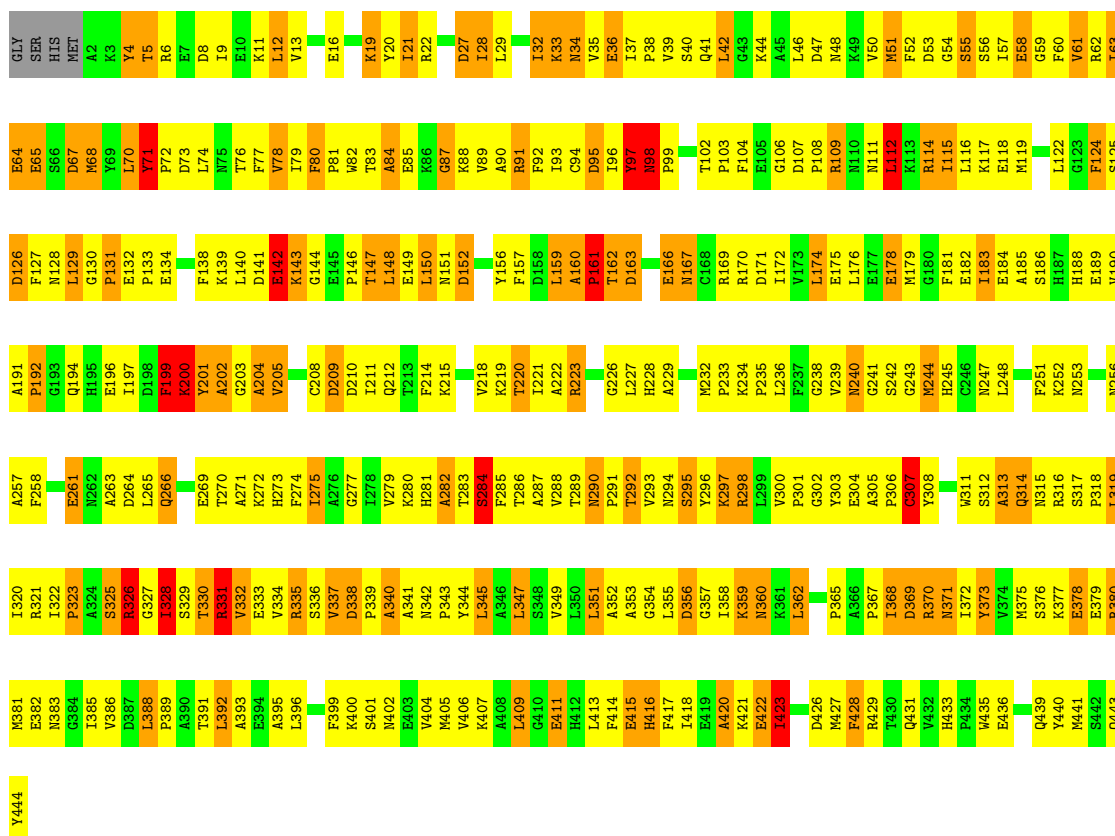
• Molecule 1: Glutamine synthetase

Chain I: 19% 53% 25% ..



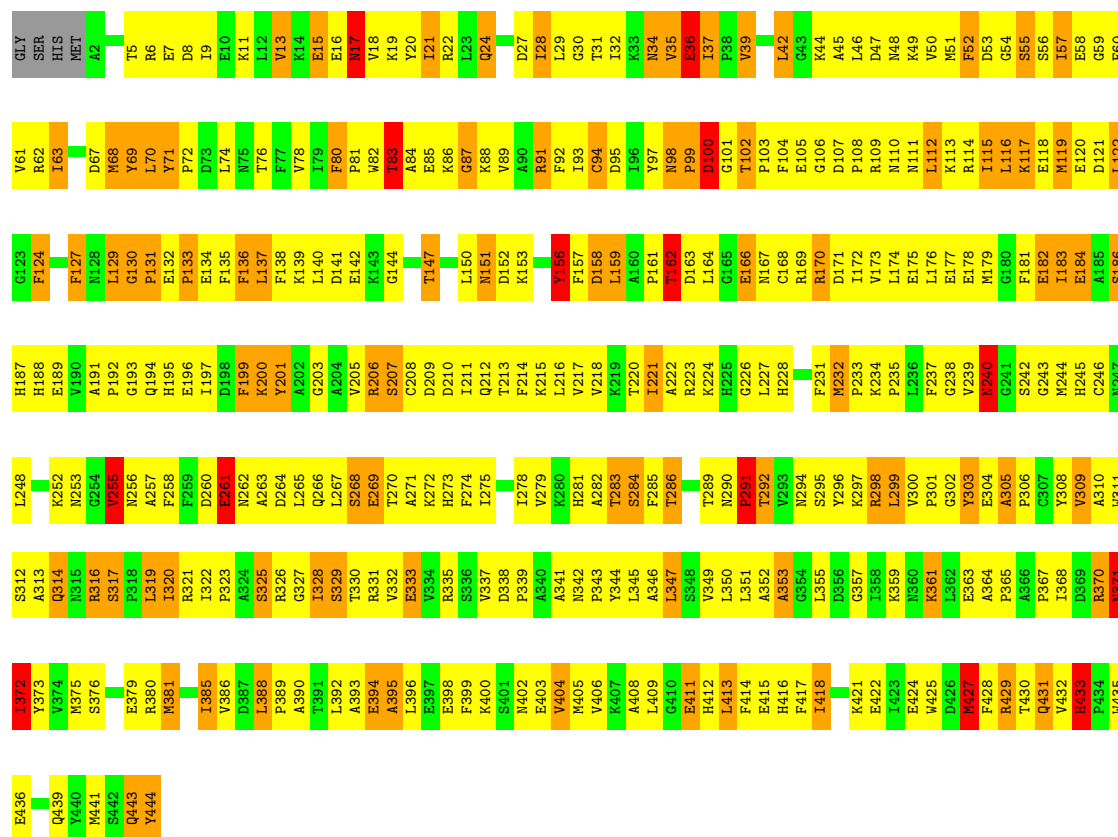


- Molecule 1: Glutamine synthetase



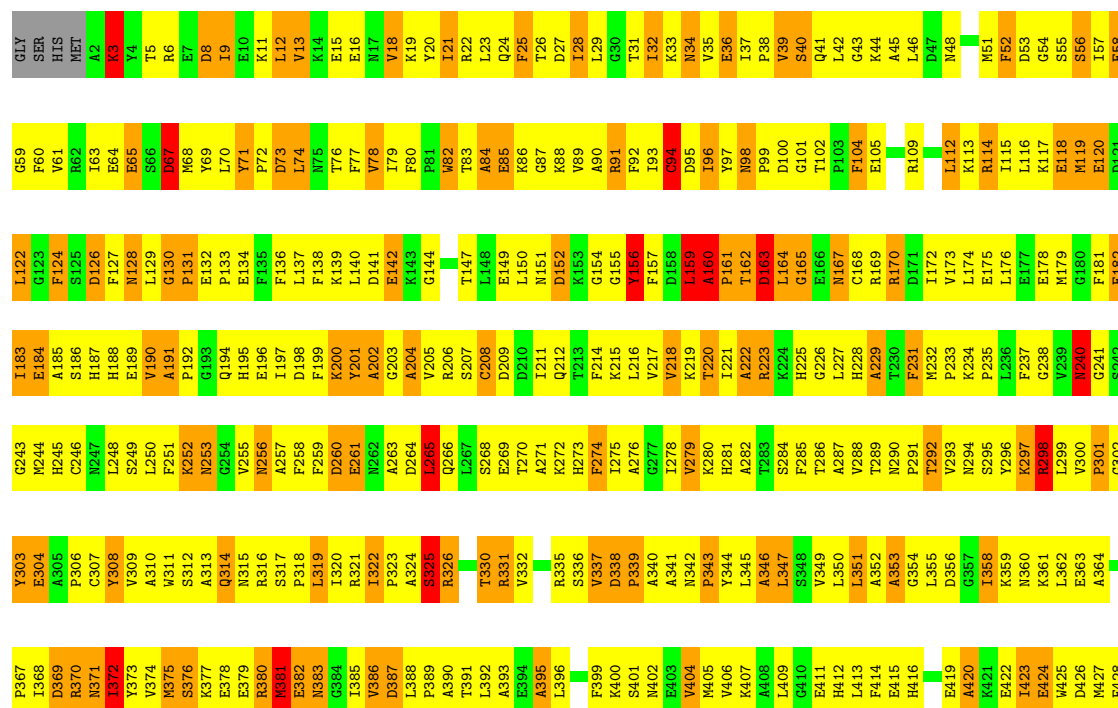
- Molecule 1: Glutamine synthetase





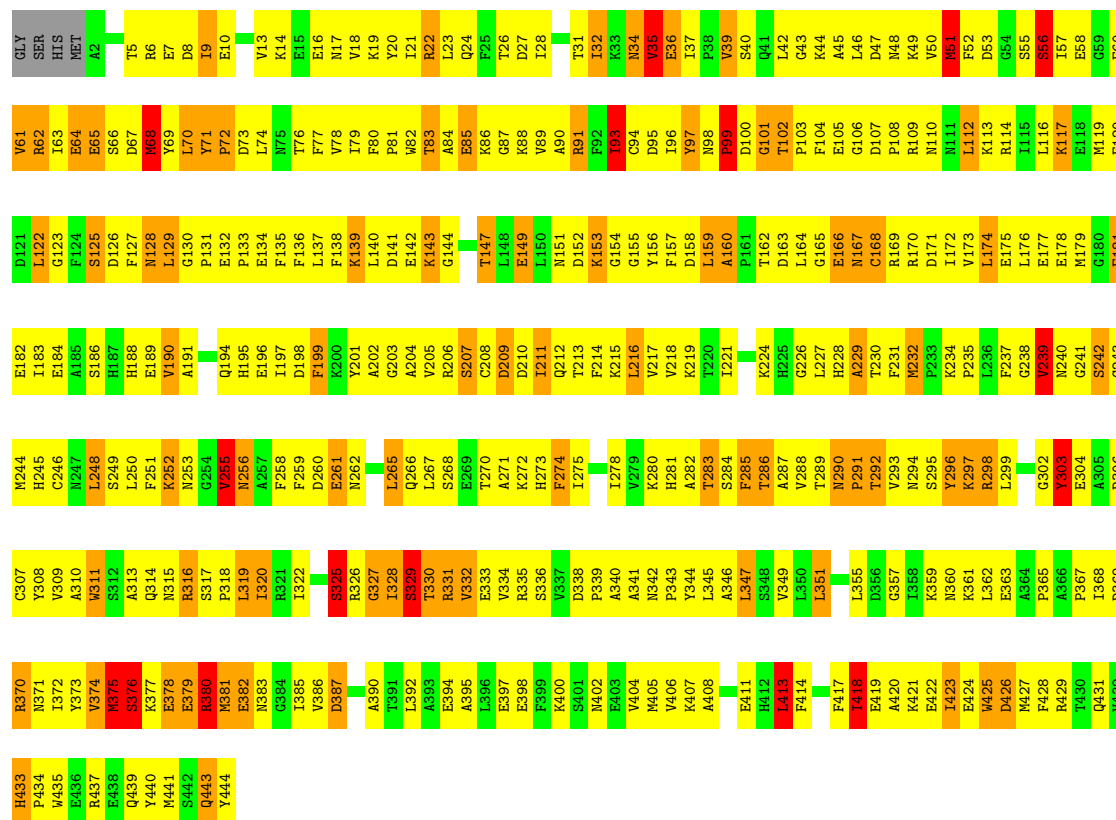
• Molecule 1: Glutamine synthetase

Chain L: 17% 55% 24% . .

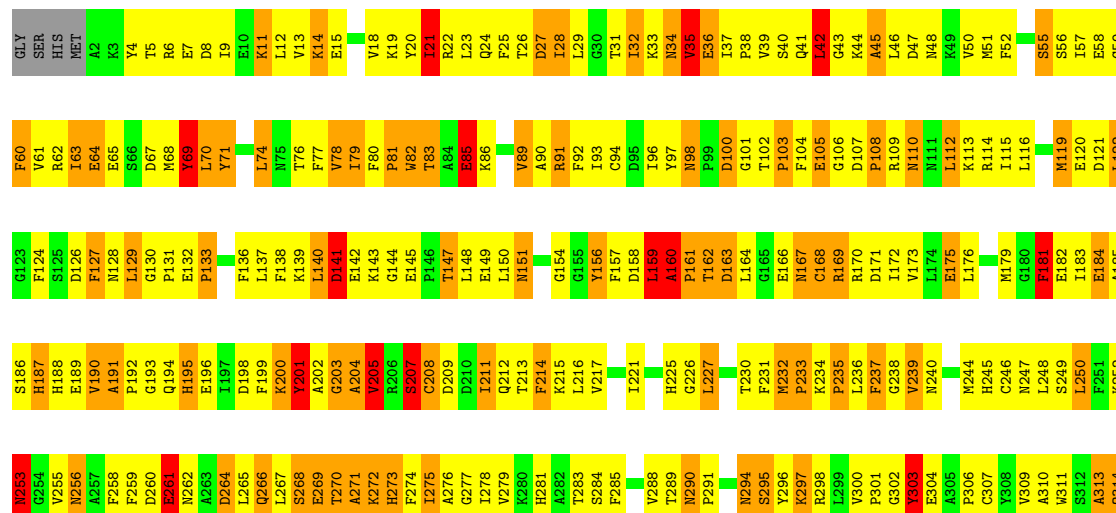
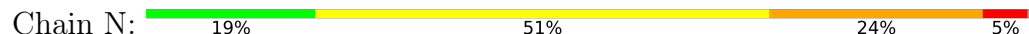




- Molecule 1: Glutamine synthetase

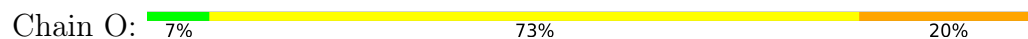


- Molecule 1: Glutamine synthetase

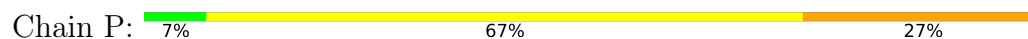




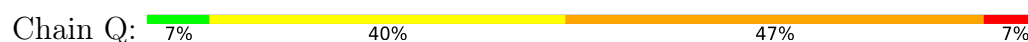
- Molecule 2: TnrA peptide



- Molecule 2: TnrA peptide



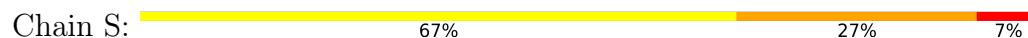
- Molecule 2: TnrA peptide



- Molecule 2: TnrA peptide



- Molecule 2: TnrA peptide



- Molecule 2: TnrA peptide



- Molecule 2: TnrA peptide

Chain U:  7% 33% 40% 20%



• Molecule 2: TnrA peptide

Chain V:  53% 40% 7%

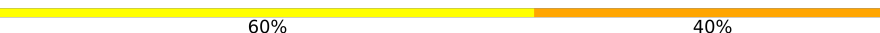


• Molecule 2: TnrA peptide

Chain W:  7% 40% 33% 20%



• Molecule 2: TnrA peptide

Chain X:  60% 40%

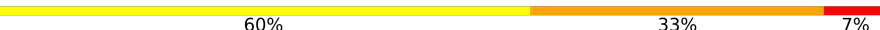


• Molecule 2: TnrA peptide

Chain Y:  7% 40% 47% 7%



• Molecule 2: TnrA peptide

Chain Z:  60% 33% 7%



• Molecule 2: TnrA peptide

Chain 1:  47% 47% 7%



• Molecule 2: TnrA peptide

Chain 2:  53% 40% 7%



4 Data and refinement statistics

Property	Value	Source
Space group	P 3	Depositor
Cell constants a, b, c, α , β , γ	295.80Å 295.80Å 103.60Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	147.90 – 3.50 147.90 – 3.50	Depositor EDS
% Data completeness (in resolution range)	(Not available) (147.90-3.50) 95.8 (147.90-3.50)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.29 (at 3.49Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.243 , 0.284 0.258 , 0.289	Depositor DCC
R_{free} test set	14819 reflections (12.09%)	wwPDB-VP
Wilson B-factor (Å ²)	57.1	Xtriage
Anisotropy	0.227	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 17.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.40$, $\langle L^2 \rangle = 0.22$	Xtriage
Estimated twinning fraction	0.380 for -h,-k,l 0.387 for h,-h-k,-l 0.387 for -k,-h,-l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	51555	wwPDB-VP
Average B, all atoms (Å ²)	57.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.20% 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: MG

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	0.73	0/3618	1.52	90/4895 (1.8%)
1	B	0.74	2/3618 (0.1%)	1.53	97/4895 (2.0%)
1	C	0.71	1/3618 (0.0%)	1.47	82/4895 (1.7%)
1	D	0.75	3/3647 (0.1%)	1.49	92/4933 (1.9%)
1	E	0.73	2/3618 (0.1%)	1.40	76/4895 (1.6%)
1	F	0.69	0/3618	1.41	75/4895 (1.5%)
1	G	0.71	2/3618 (0.1%)	1.45	74/4895 (1.5%)
1	H	0.68	0/3618	1.44	70/4895 (1.4%)
1	I	0.69	0/3618	1.44	73/4895 (1.5%)
1	J	0.68	1/3618 (0.0%)	1.47	78/4895 (1.6%)
1	K	0.66	0/3618	1.44	77/4895 (1.6%)
1	L	0.71	1/3618 (0.0%)	1.47	73/4895 (1.5%)
1	M	0.75	1/3618 (0.0%)	1.54	85/4895 (1.7%)
1	N	0.75	1/3618 (0.0%)	1.55	93/4895 (1.9%)
2	1	0.82	0/134	2.45	6/175 (3.4%)
2	2	0.68	0/135	2.01	5/175 (2.9%)
2	O	0.54	0/135	1.47	2/175 (1.1%)
2	P	0.61	0/135	1.72	4/175 (2.3%)
2	Q	0.82	0/135	1.68	6/175 (3.4%)
2	R	0.75	0/135	2.21	5/175 (2.9%)
2	S	0.86	0/135	1.84	4/175 (2.3%)
2	T	0.71	0/135	1.86	7/175 (4.0%)
2	U	0.71	0/135	2.09	7/175 (4.0%)
2	V	1.13	1/135 (0.7%)	2.44	7/175 (4.0%)
2	W	0.99	0/135	2.39	6/175 (3.4%)
2	X	0.73	0/135	1.96	6/175 (3.4%)
2	Y	1.00	0/135	1.88	6/175 (3.4%)
2	Z	0.88	0/135	1.95	4/175 (2.3%)
All	All	0.72	15/52570 (0.0%)	1.50	1210/71018 (1.7%)

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	3
1	B	0	1
1	D	0	1
1	F	0	1
1	J	0	1
All	All	0	7

All (15) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	408	ALA	CA-CB	9.82	1.70	1.53
2	V	760	ARG	C-O	7.55	1.38	1.23
1	D	1	MET	SD-CE	7.13	1.97	1.79
1	C	51	MET	SD-CE	-6.25	1.64	1.79
1	J	275	ILE	CA-CB	6.10	1.61	1.54
1	D	0	HIS	CA-CB	5.91	1.62	1.53
1	G	37	ILE	CA-CB	5.67	1.61	1.54
1	G	83	THR	CA-CB	-5.61	1.44	1.53
1	B	32	ILE	CA-CB	5.56	1.60	1.53
1	E	32	ILE	CA-CB	5.47	1.59	1.53
1	M	117	LYS	CA-CB	-5.15	1.45	1.53
1	L	163	ASP	C-O	-5.08	1.17	1.24
1	N	338	ASP	CA-C	5.07	1.60	1.53
1	D	1	MET	N-CA	5.05	1.52	1.45
1	B	427	MET	SD-CE	5.05	1.92	1.79

All (1210) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	V	747	MET	N-CA-C	-24.73	83.24	113.41
2	W	747	MET	N-CA-C	-19.50	89.52	113.50
2	1	747	MET	N-CA-C	-18.30	90.55	113.97
2	2	747	MET	N-CA-C	-16.92	92.77	113.41
2	1	751	GLN	N-CA-C	-16.66	92.54	111.03
1	J	112	LEU	N-CA-C	-16.18	92.00	112.72
2	R	747	MET	N-CA-C	-15.72	94.15	111.28
1	C	356	ASP	N-CA-C	-15.27	94.32	110.97
1	M	327	GLY	N-CA-C	-14.44	96.19	111.21
2	X	747	MET	N-CA-C	-14.23	95.77	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	121	ASP	N-CA-C	-13.67	96.28	113.23
2	Z	747	MET	N-CA-C	-13.26	96.47	111.71
1	I	383	ASN	N-CA-C	12.99	129.49	111.56
1	D	47	ASP	N-CA-C	-12.51	98.92	112.93
1	B	269	GLU	N-CA-C	-12.31	96.31	112.68
2	U	751	GLN	N-CA-C	-12.26	97.95	111.07
1	H	371	ASN	N-CA-C	12.22	128.63	110.30
2	S	751	GLN	N-CA-C	-12.12	98.11	111.07
1	K	353	ALA	N-CA-C	-12.07	98.66	113.50
1	N	55	SER	N-CA-C	-11.94	98.70	113.38
1	A	128	ASN	N-CA-C	11.87	128.11	110.30
1	D	439	GLN	N-CA-C	11.87	124.30	111.36
1	M	330	THR	N-CA-C	-11.82	92.23	109.96
1	N	200	LYS	N-CA-C	11.79	127.73	110.28
1	A	65	GLU	N-CA-C	-11.76	94.95	110.24
1	L	330	THR	N-CA-C	-11.63	91.83	110.32
1	D	55	SER	N-CA-C	-11.42	100.14	112.93
1	N	372	ILE	N-CA-C	11.20	121.86	111.45
1	J	297	LYS	N-CA-C	-11.19	98.94	112.59
2	P	751	GLN	N-CA-C	-11.15	99.20	111.36
1	E	364	ALA	CA-C-N	11.09	133.71	119.84
1	E	364	ALA	C-N-CA	11.09	133.71	119.84
1	N	144	GLY	N-CA-C	11.08	126.76	113.79
1	K	316	ARG	N-CA-C	11.07	123.31	111.03
2	T	751	GLN	N-CA-C	-11.02	99.28	111.07
1	F	291	PRO	N-CA-C	11.01	127.42	114.20
1	G	237	PHE	N-CA-C	-10.83	96.56	110.53
2	U	747	MET	N-CA-C	-10.82	100.12	113.97
2	O	751	GLN	N-CA-C	-10.81	99.58	111.36
1	A	374	VAL	N-CA-C	-10.81	102.94	113.53
1	K	100	ASP	N-CA-C	10.75	125.92	113.02
1	F	55	SER	N-CA-C	-10.70	97.86	112.94
1	M	284	SER	N-CA-C	10.69	125.02	111.24
1	K	86	LYS	N-CA-C	-10.66	100.00	113.43
1	D	31	THR	N-CA-C	-10.64	95.66	110.35
1	M	382	GLU	N-CA-C	-10.60	98.58	112.68
1	C	102	THR	CA-C-N	10.59	131.26	119.93
1	C	102	THR	C-N-CA	10.59	131.26	119.93
1	J	200	LYS	N-CA-C	10.55	124.88	109.69
1	B	65	GLU	N-CA-C	-10.52	95.62	110.35
1	M	158	ASP	N-CA-C	10.45	123.15	110.19
1	D	127	PHE	N-CA-C	-10.45	95.06	110.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	130	GLY	CA-C-N	10.36	130.28	120.03
1	A	130	GLY	C-N-CA	10.36	130.28	120.03
1	J	295	SER	N-CA-C	-10.28	100.60	113.55
1	H	151	ASN	N-CA-C	10.27	124.91	112.38
1	E	269	GLU	N-CA-C	-10.25	102.11	112.97
1	I	127	PHE	N-CA-C	-10.22	93.71	109.95
1	C	313	ALA	N-CA-C	-10.21	99.59	114.39
1	E	94	CYS	N-CA-C	10.18	125.59	109.50
1	D	121	ASP	N-CA-C	-10.18	100.61	113.23
1	G	394	GLU	N-CA-C	-10.17	100.67	112.87
1	L	200	LYS	N-CA-C	10.13	125.84	110.14
1	M	117	LYS	N-CA-C	-10.09	100.24	111.14
1	A	84	ALA	N-CA-C	-10.05	94.98	108.24
1	L	325	SER	N-CA-C	10.04	125.50	110.64
1	E	297	LYS	N-CA-C	-10.01	100.71	113.72
1	E	291	PRO	N-CA-C	10.00	126.33	114.03
1	A	87	GLY	N-CA-C	-9.99	101.99	112.08
1	I	47	ASP	N-CA-C	-9.98	98.86	112.94
1	K	394	GLU	N-CA-C	-9.97	99.14	111.11
1	D	267	LEU	N-CA-C	9.95	124.43	108.41
1	I	298	ARG	N-CA-C	-9.95	100.68	113.12
1	K	15	GLU	N-CA-C	9.94	122.06	111.03
1	E	106	GLY	N-CA-C	9.92	126.66	113.37
2	Y	747	MET	N-CA-C	-9.90	99.07	111.75
1	I	435	TRP	N-CA-C	-9.88	100.47	111.14
2	T	747	MET	N-CA-C	-9.84	100.56	111.28
2	Z	753	ALA	N-CA-C	-9.82	100.54	111.14
1	N	366	ALA	CA-C-N	9.78	129.84	119.76
1	N	366	ALA	C-N-CA	9.78	129.84	119.76
1	G	183	ILE	N-CA-C	9.76	121.72	108.84
1	H	74	LEU	N-CA-C	9.73	124.26	112.38
2	W	755	PHE	CA-CB-CG	9.73	123.53	113.80
1	A	117	LYS	N-CA-C	-9.67	98.12	112.04
1	G	57	ILE	N-CA-C	-9.65	103.31	112.96
2	R	751	GLN	N-CA-C	-9.59	100.81	111.07
1	I	191	ALA	N-CA-C	9.55	121.68	109.65
1	J	307	CYS	N-CA-C	-9.53	99.34	112.12
2	U	753	ALA	N-CA-C	-9.52	98.96	111.24
1	G	47	ASP	N-CA-C	-9.49	101.89	112.72
1	L	308	TYR	N-CA-C	9.45	124.29	109.07
1	G	126	ASP	N-CA-C	9.45	123.81	108.41
1	I	82	TRP	N-CA-C	-9.45	101.88	113.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	322	ILE	CA-C-N	9.43	131.63	119.84
1	L	322	ILE	C-N-CA	9.43	131.63	119.84
1	C	127	PHE	N-CA-C	-9.42	93.89	109.24
1	L	122	LEU	N-CA-C	-9.40	101.94	113.41
1	A	35	VAL	N-CA-C	-9.40	94.69	109.17
2	W	751	GLN	N-CA-C	-9.37	100.95	111.82
1	D	232	MET	CA-C-N	9.34	131.52	119.84
1	D	232	MET	C-N-CA	9.34	131.52	119.84
1	F	305	ALA	CA-C-N	9.34	129.38	119.76
1	F	305	ALA	C-N-CA	9.34	129.38	119.76
2	Y	759	ASN	N-CA-C	9.34	123.95	113.21
1	A	297	LYS	N-CA-C	-9.32	101.42	113.17
1	G	297	LYS	N-CA-C	-9.31	101.93	113.38
1	M	255	VAL	N-CA-C	9.26	120.96	106.88
1	L	292	THR	N-CA-C	9.23	123.82	109.52
1	L	191	ALA	N-CA-C	9.22	122.72	110.36
1	G	207	SER	N-CA-C	9.21	121.09	111.14
1	J	388	LEU	N-CA-C	-9.20	99.27	110.31
1	F	24	GLN	N-CA-C	9.19	123.75	109.96
1	N	205	VAL	N-CA-C	9.19	119.24	110.42
1	E	409	LEU	N-CA-C	-9.19	99.55	112.13
1	M	143	LYS	N-CA-C	9.18	120.89	111.07
1	J	292	THR	N-CA-C	9.12	123.08	109.95
1	N	379	GLU	N-CA-C	-9.10	100.97	112.90
2	S	749	GLU	N-CA-C	9.10	122.33	111.33
1	I	342	ASN	CA-C-N	9.06	131.16	119.84
1	I	342	ASN	C-N-CA	9.06	131.16	119.84
1	A	364	ALA	CA-C-N	-9.05	108.52	119.84
1	A	364	ALA	C-N-CA	-9.05	108.52	119.84
1	A	290	ASN	CA-C-N	9.03	131.13	119.84
1	A	290	ASN	C-N-CA	9.03	131.13	119.84
1	N	239	VAL	N-CA-C	9.03	121.27	108.36
1	M	316	ARG	N-CA-C	9.01	122.01	111.02
1	B	158	ASP	N-CA-C	8.99	123.59	110.28
1	K	381	MET	CA-C-N	-8.99	104.97	121.52
1	K	381	MET	C-N-CA	-8.99	104.97	121.52
1	L	298	ARG	N-CA-C	-8.96	102.26	113.55
1	K	127	PHE	N-CA-C	-8.94	97.08	109.95
1	L	202	ALA	N-CA-C	8.94	121.72	108.14
1	M	166	GLU	N-CA-C	-8.87	101.72	112.54
1	H	405	MET	N-CA-C	-8.86	99.28	112.04
1	A	168	CYS	N-CA-C	-8.85	101.56	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	199	PHE	N-CA-C	8.83	123.29	109.07
1	J	409	LEU	N-CA-C	-8.82	101.19	112.93
1	J	423	ILE	N-CA-C	-8.81	102.24	111.58
1	L	371	ASN	N-CA-C	8.79	123.23	108.20
1	D	16	GLU	N-CA-C	-8.78	101.29	114.64
1	D	298	ARG	N-CA-C	-8.77	102.16	113.12
1	D	356	ASP	N-CA-C	-8.75	100.61	111.11
1	M	35	VAL	N-CA-C	-8.74	95.86	108.36
1	L	94	CYS	N-CA-C	8.73	122.35	109.07
1	E	335	ARG	N-CA-C	8.70	123.89	113.28
1	C	298	ARG	N-CA-C	-8.70	102.59	113.55
1	E	371	ASN	N-CA-C	8.67	123.03	108.90
1	I	330	THR	N-CA-C	-8.66	97.05	109.96
1	M	342	ASN	CA-C-N	8.65	127.96	118.97
1	M	342	ASN	C-N-CA	8.65	127.96	118.97
1	G	118	GLU	N-CA-C	-8.64	101.82	111.07
1	N	168	CYS	N-CA-C	-8.64	100.54	112.12
1	A	417	PHE	N-CA-C	-8.63	101.82	111.14
1	H	319	LEU	N-CA-C	-8.63	102.76	113.38
1	J	335	ARG	N-CA-C	8.63	123.36	113.01
2	S	747	MET	N-CA-C	-8.60	102.69	113.01
1	E	115	ILE	N-CA-C	-8.60	101.30	113.07
1	G	371	ASN	N-CA-C	8.59	123.50	112.34
1	M	426	ASP	N-CA-C	8.54	123.12	112.87
1	N	394	GLU	N-CA-C	-8.54	101.89	111.71
1	H	40	SER	N-CA-C	-8.54	101.58	113.20
1	N	273	HIS	N-CA-C	-8.52	101.69	110.97
1	K	418	ILE	N-CA-C	-8.51	100.03	111.44
1	A	433	HIS	CA-C-N	8.50	128.23	119.56
1	A	433	HIS	C-N-CA	8.50	128.23	119.56
1	G	290	ASN	CA-C-N	8.49	130.46	119.84
1	G	290	ASN	C-N-CA	8.49	130.46	119.84
1	H	25	PHE	N-CA-C	-8.48	95.93	107.88
1	G	168	CYS	N-CA-C	-8.47	100.52	112.13
1	F	123	GLY	N-CA-C	8.46	125.03	114.37
1	N	297	LYS	N-CA-C	-8.46	102.67	113.16
1	D	313	ALA	N-CA-C	-8.43	101.13	112.26
1	F	430	THR	N-CA-C	-8.43	103.13	113.50
1	C	270	THR	N-CA-C	-8.43	100.99	111.11
1	N	89	VAL	N-CA-C	8.43	120.02	107.80
1	M	181	PHE	N-CA-C	8.40	122.11	110.35
1	L	307	CYS	N-CA-C	-8.39	104.18	114.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	190	VAL	N-CA-C	8.39	119.19	110.72
1	A	121	ASP	N-CA-C	-8.37	102.52	112.89
1	B	83	THR	N-CA-C	8.35	123.26	109.06
1	B	203	GLY	N-CA-C	-8.35	102.33	111.93
1	N	237	PHE	N-CA-C	-8.34	100.15	110.41
1	K	94	CYS	N-CA-C	8.32	122.13	109.23
2	2	749	GLU	N-CA-C	-8.31	102.17	111.14
1	M	68	MET	N-CA-C	8.30	121.21	108.42
1	B	24	GLN	N-CA-C	8.29	121.63	110.35
1	M	128	ASN	N-CA-C	8.29	122.75	110.48
1	M	130	GLY	CA-C-N	8.28	130.18	119.84
1	M	130	GLY	C-N-CA	8.28	130.18	119.84
1	B	93	ILE	N-CA-C	-8.27	98.92	109.58
1	M	159	LEU	N-CA-C	8.27	121.19	108.30
1	N	42	LEU	N-CA-C	-8.27	101.52	111.69
1	E	440	TYR	N-CA-C	8.26	122.92	113.01
1	A	97	TYR	N-CA-C	8.26	121.96	108.26
1	B	217	VAL	N-CA-C	8.25	119.03	110.36
1	H	77	PHE	N-CA-C	-8.25	99.41	110.55
1	A	332	VAL	N-CA-C	8.25	115.04	106.21
1	C	94	CYS	N-CA-C	8.24	119.12	108.24
1	J	330	THR	N-CA-C	-8.23	99.15	110.35
1	N	253	ASN	N-CA-C	-8.23	100.89	111.92
1	N	382	GLU	N-CA-C	-8.23	98.96	111.56
1	K	130	GLY	CA-C-N	8.21	130.10	119.84
1	K	130	GLY	C-N-CA	8.21	130.10	119.84
1	M	80	PHE	CA-C-N	8.20	127.76	119.24
1	M	80	PHE	C-N-CA	8.20	127.76	119.24
2	X	749	GLU	N-CA-C	-8.19	101.92	112.23
1	C	160	ALA	CA-C-N	8.18	130.06	119.84
1	C	160	ALA	C-N-CA	8.18	130.06	119.84
1	H	128	ASN	N-CA-C	8.16	123.17	108.48
1	H	297	LYS	N-CA-C	-8.15	102.37	112.88
1	G	412	HIS	N-CA-C	8.14	120.16	111.28
1	J	313	ALA	N-CA-C	-8.14	102.38	112.88
1	B	47	ASP	N-CA-C	-8.13	103.52	113.19
1	B	356	ASP	N-CA-C	-8.13	101.48	111.40
1	G	116	LEU	N-CA-C	-8.12	101.70	111.69
1	D	6	ARG	N-CA-C	8.12	119.82	110.97
1	K	116	LEU	N-CA-C	-8.11	102.84	112.89
1	L	303	TYR	N-CA-C	8.10	122.52	113.21
1	F	62	ARG	N-CA-C	-8.09	98.50	110.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	263	ALA	N-CA-C	8.08	121.58	109.95
1	J	328	ILE	CB-CA-C	-8.08	101.24	112.14
1	L	377	LYS	N-CA-C	-8.08	103.54	113.15
1	D	22	ARG	N-CA-C	8.07	122.84	108.24
1	N	159	LEU	N-CA-C	8.07	123.66	112.04
1	J	284	SER	N-CA-C	8.05	119.83	111.14
1	J	441	MET	N-CA-C	8.04	121.58	111.69
1	B	394	GLU	N-CA-C	-8.02	102.75	112.54
1	D	379	GLU	N-CA-C	-7.99	103.67	113.41
1	H	122	LEU	N-CA-C	-7.98	102.17	111.03
2	R	758	LYS	N-CA-C	-7.96	104.08	113.88
1	G	82	TRP	N-CA-C	7.96	119.87	111.03
1	H	127	PHE	N-CA-C	-7.96	97.80	110.14
1	L	67	ASP	CB-CA-C	-7.96	97.48	109.90
1	B	124	PHE	N-CA-C	7.96	122.77	110.20
1	C	120	GLU	N-CA-C	-7.95	103.60	113.38
1	E	90	ALA	N-CA-C	7.93	121.26	110.55
1	D	260	ASP	N-CA-C	7.93	120.68	107.20
1	N	269	GLU	N-CA-C	-7.93	103.44	113.43
2	X	754	HIS	N-CA-C	-7.92	102.14	112.68
1	D	133	PRO	N-CA-C	7.89	123.73	110.95
1	M	95	ASP	N-CA-C	-7.89	100.12	110.53
1	H	55	SER	N-CA-C	-7.88	101.65	111.11
1	A	324	ALA	N-CA-C	7.87	120.95	111.82
1	H	290	ASN	CA-C-N	7.87	129.67	119.84
1	H	290	ASN	C-N-CA	7.87	129.67	119.84
1	M	93	ILE	N-CA-C	-7.87	96.99	108.71
1	K	117	LYS	N-CA-C	-7.85	102.41	110.97
2	Z	754	HIS	N-CA-C	7.84	119.46	111.07
1	I	209	ASP	N-CA-C	-7.83	102.82	111.36
1	M	168	CYS	N-CA-C	-7.83	102.52	112.93
1	F	56	SER	N-CA-C	-7.80	103.74	113.18
1	L	401	SER	N-CA-C	7.79	119.41	111.07
1	H	177	GLU	N-CA-C	-7.79	102.48	110.97
1	H	82	TRP	N-CA-C	-7.79	103.10	114.39
1	J	87	GLY	N-CA-C	-7.78	94.75	113.18
1	L	222	ALA	N-CA-C	-7.75	101.67	112.45
1	B	267	LEU	N-CA-C	-7.73	96.97	109.96
1	M	229	ALA	N-CA-C	-7.72	97.36	109.72
1	I	122	LEU	N-CA-C	-7.71	102.00	111.40
1	A	191	ALA	CA-C-N	7.71	129.47	119.84
1	A	191	ALA	C-N-CA	7.71	129.47	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	297	LYS	N-CA-C	-7.70	103.46	113.17
1	A	232	MET	CA-C-N	7.69	129.45	119.84
1	A	232	MET	C-N-CA	7.69	129.45	119.84
1	F	162	THR	N-CA-C	7.69	127.17	110.80
1	H	408	ALA	N-CA-C	7.69	119.66	111.28
1	B	290	ASN	CA-C-N	7.68	127.58	119.05
1	B	290	ASN	C-N-CA	7.68	127.58	119.05
1	J	400	LYS	N-CA-C	-7.68	102.99	111.36
1	H	254	GLY	N-CA-C	-7.67	101.71	114.76
1	D	351	LEU	N-CA-C	-7.67	101.93	111.75
1	M	325	SER	N-CA-C	7.67	120.78	110.35
1	K	372	ILE	N-CA-C	7.63	118.43	110.72
1	N	160	ALA	N-CA-C	7.63	126.67	109.81
1	H	16	GLU	N-CA-C	-7.63	104.58	114.04
1	K	150	LEU	N-CA-C	-7.63	100.25	110.55
1	J	35	VAL	N-CA-C	-7.62	97.51	108.48
1	A	360	ASN	N-CA-C	-7.62	100.73	112.99
1	K	352	ALA	N-CA-C	7.62	121.83	112.54
1	F	223	ARG	N-CA-C	-7.61	103.07	111.36
1	N	78	VAL	N-CA-C	7.57	118.35	108.35
1	M	160	ALA	N-CA-C	7.57	126.54	109.81
1	K	319	LEU	N-CA-C	-7.57	102.63	111.03
1	G	372	ILE	N-CA-C	7.56	125.07	109.34
1	G	97	TYR	N-CA-C	7.56	121.56	109.24
1	L	335	ARG	N-CA-C	7.56	122.69	113.17
1	A	317	SER	CA-C-N	-7.55	112.70	120.85
1	A	317	SER	C-N-CA	-7.55	112.70	120.85
1	G	313	ALA	N-CA-C	-7.54	103.67	113.17
1	N	69	TYR	N-CA-C	7.53	122.30	110.32
1	B	338	ASP	CA-C-N	7.52	129.24	119.84
1	B	338	ASP	C-N-CA	7.52	129.24	119.84
1	B	135	PHE	N-CA-C	7.52	120.03	108.07
1	B	221	ILE	N-CA-C	-7.51	102.85	113.07
1	G	36	GLU	N-CA-C	7.51	120.76	108.52
1	L	346	ALA	N-CA-C	-7.50	104.26	113.41
1	G	353	ALA	N-CA-C	-7.49	104.17	113.38
1	D	56	SER	N-CA-C	-7.49	102.80	112.23
1	A	229	ALA	N-CA-C	-7.48	98.55	110.14
1	A	91	ARG	N-CA-C	7.47	121.92	108.69
1	L	440	TYR	N-CA-C	7.47	122.22	113.18
1	G	413	LEU	N-CA-C	-7.46	103.08	111.14
1	J	428	PHE	N-CA-C	-7.46	105.35	114.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	V	752	ASN	N-CA-C	-7.46	103.80	113.12
2	U	755	PHE	N-CA-C	7.46	120.47	111.82
1	J	146	PRO	N-CA-C	7.45	122.58	111.41
1	I	397	GLU	N-CA-C	-7.43	102.78	111.03
1	D	377	LYS	N-CA-C	-7.43	103.47	112.54
1	M	394	GLU	N-CA-C	-7.43	103.26	111.36
1	C	143	LYS	N-CA-C	7.42	121.78	112.87
1	M	418	ILE	N-CA-C	-7.42	103.22	110.72
1	F	422	GLU	N-CA-C	-7.42	103.69	112.89
1	L	118	GLU	N-CA-C	-7.42	102.88	110.97
1	A	420	ALA	N-CA-C	7.41	120.23	111.71
1	F	100	ASP	N-CA-C	7.40	121.88	111.30
1	E	394	GLU	N-CA-C	-7.39	102.92	112.23
1	H	111	ASN	N-CA-C	-7.38	103.53	112.54
1	L	420	ALA	N-CA-C	7.38	120.40	111.40
1	A	365	PRO	N-CA-C	-7.37	97.30	112.47
1	C	332	VAL	N-CA-C	-7.36	97.88	108.48
1	G	185	ALA	N-CA-C	7.36	121.39	109.40
1	A	269	GLU	N-CA-C	-7.36	102.43	111.33
1	B	368	ILE	N-CA-C	7.34	119.65	109.45
1	K	433	HIS	CA-C-N	7.34	127.69	119.32
1	K	433	HIS	C-N-CA	7.34	127.69	119.32
1	M	319	LEU	N-CA-C	-7.33	103.22	111.14
1	G	113	LYS	N-CA-C	-7.33	104.31	113.18
1	K	255	VAL	N-CA-C	7.32	118.61	107.77
1	K	36	GLU	N-CA-C	7.32	120.72	108.20
1	I	293	VAL	N-CA-C	-7.31	103.16	110.62
1	F	36	GLU	N-CA-C	7.31	122.24	109.96
1	F	314	GLN	N-CA-C	-7.31	95.23	110.80
1	C	297	LYS	N-CA-C	-7.30	103.97	113.17
2	P	753	ALA	N-CA-C	-7.30	102.30	112.45
1	K	124	PHE	N-CA-C	7.30	121.58	109.46
1	L	98	ASN	CA-C-N	7.30	126.97	119.82
1	L	98	ASN	C-N-CA	7.30	126.97	119.82
1	F	191	ALA	N-CA-C	7.29	118.52	110.13
1	D	337	VAL	N-CA-C	7.28	119.93	109.51
1	I	382	GLU	N-CA-C	-7.27	104.41	113.20
2	Z	749	GLU	N-CA-C	-7.27	102.75	111.69
1	I	89	VAL	N-CA-C	7.26	118.60	107.99
1	C	178	GLU	N-CA-C	-7.26	102.67	112.26
1	D	1	MET	N-CA-C	7.26	121.62	110.36
1	G	360	ASN	N-CA-C	7.26	122.32	113.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	56	SER	N-CA-C	-7.24	103.54	112.38
1	E	356	ASP	N-CA-C	-7.24	103.60	113.30
1	I	400	LYS	N-CA-C	-7.23	103.40	111.28
1	D	291	PRO	N-CA-C	7.22	124.02	114.27
1	G	158	ASP	N-CA-C	7.22	126.19	110.80
1	N	169	ARG	N-CA-C	-7.21	102.96	112.34
1	E	270	THR	N-CA-C	-7.21	104.34	113.43
1	C	212	GLN	N-CA-C	-7.21	103.03	111.03
1	F	363	GLU	N-CA-C	7.20	120.26	108.52
1	E	290	ASN	CA-C-N	7.20	127.36	119.87
1	E	290	ASN	C-N-CA	7.20	127.36	119.87
1	F	135	PHE	N-CA-C	7.20	120.01	109.07
1	L	272	LYS	N-CA-C	-7.20	104.63	113.19
1	F	290	ASN	CA-C-N	7.19	128.11	120.12
1	F	290	ASN	C-N-CA	7.19	128.11	120.12
1	H	116	LEU	N-CA-C	-7.19	104.53	113.38
1	N	421	LYS	N-CA-C	-7.18	104.33	113.23
1	M	36	GLU	N-CA-C	7.18	120.11	108.41
1	A	408	ALA	N-CA-C	-7.17	104.66	113.41
1	J	338	ASP	CA-C-N	7.17	128.80	119.84
1	J	338	ASP	C-N-CA	7.17	128.80	119.84
1	J	298	ARG	N-CA-C	-7.16	104.41	113.43
1	K	395	ALA	N-CA-C	7.16	119.70	111.11
1	A	263	ALA	N-CA-C	7.16	120.81	109.65
1	B	142	GLU	N-CA-C	7.15	118.77	110.97
1	C	145	GLU	N-CA-C	-7.15	101.90	110.13
1	N	127	PHE	N-CA-C	-7.15	98.03	109.76
1	L	412	HIS	N-CA-C	7.14	121.23	112.23
1	A	160	ALA	CA-C-N	7.13	128.76	119.84
1	A	160	ALA	C-N-CA	7.13	128.76	119.84
1	N	429	ARG	N-CA-C	7.13	119.91	111.71
1	D	409	LEU	N-CA-C	7.13	122.36	112.45
1	L	372	ILE	N-CA-C	-7.13	104.45	113.22
1	A	183	ILE	N-CA-C	7.12	118.74	107.98
1	H	422	GLU	N-CA-C	-7.12	103.13	111.03
1	B	207	SER	N-CA-C	7.11	120.44	111.69
1	G	160	ALA	N-CA-C	7.11	125.53	109.81
1	H	305	ALA	CA-C-N	7.11	128.72	119.84
1	H	305	ALA	C-N-CA	7.11	128.72	119.84
1	C	6	ARG	N-CA-C	7.08	119.90	111.33
1	N	122	LEU	N-CA-C	7.08	121.37	112.87
1	N	337	VAL	N-CA-C	7.08	118.92	109.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	70	LEU	N-CA-C	7.07	122.57	109.56
1	E	23	LEU	N-CA-C	7.07	120.82	108.52
1	F	388	LEU	N-CA-C	-7.07	100.55	110.31
1	B	116	LEU	N-CA-C	-7.07	103.51	111.14
1	G	94	CYS	N-CA-C	7.06	121.00	109.85
1	F	418	ILE	N-CA-C	-7.05	103.43	110.62
1	F	21	ILE	N-CA-C	7.04	118.03	107.75
1	E	189	GLU	N-CA-C	7.04	120.07	110.35
1	M	433	HIS	CA-C-N	7.04	127.35	119.32
1	M	433	HIS	C-N-CA	7.04	127.35	119.32
1	I	232	MET	CA-C-N	7.04	128.64	119.84
1	I	232	MET	C-N-CA	7.04	128.64	119.84
1	L	201	TYR	N-CA-C	7.04	125.79	110.80
2	X	756	ARG	N-CA-C	-7.03	102.08	113.19
1	I	292	THR	N-CA-C	7.02	120.95	109.85
1	I	94	CYS	N-CA-C	7.02	120.78	110.17
1	L	159	LEU	N-CA-C	7.02	122.30	111.56
1	C	359	LYS	N-CA-C	7.02	119.78	111.71
1	H	263	ALA	N-CA-C	7.01	120.90	110.52
1	G	336	SER	N-CA-C	7.00	119.56	111.02
1	M	298	ARG	N-CA-C	-7.00	104.87	113.41
1	C	135	PHE	N-CA-C	6.98	119.13	108.52
1	M	90	ALA	N-CA-C	6.98	121.21	109.76
1	K	13	VAL	N-CA-C	-6.97	105.05	111.67
1	N	101	GLY	N-CA-C	-6.97	105.86	114.92
1	J	199	PHE	N-CA-C	-6.96	99.93	109.95
1	C	411	GLU	N-CA-C	-6.96	103.78	111.36
1	M	69	TYR	N-CA-C	6.96	121.37	110.17
1	I	130	GLY	N-CA-C	-6.95	98.15	112.34
2	W	757	TYR	CB-CA-C	-6.95	99.39	110.86
1	C	89	VAL	N-CA-C	6.95	117.50	106.32
1	B	234	LYS	CA-C-N	6.94	126.19	118.97
1	B	234	LYS	C-N-CA	6.94	126.19	118.97
1	L	85	GLU	N-CA-C	-6.94	106.00	114.75
2	V	756	ARG	N-CA-C	-6.94	104.62	113.23
1	M	342	ASN	N-CA-C	-6.94	99.15	109.42
1	B	331	ARG	N-CA-C	6.93	119.36	107.93
1	K	209	ASP	N-CA-C	-6.92	103.67	111.07
1	I	199	PHE	N-CA-C	6.91	119.57	109.07
1	M	66	SER	N-CA-C	-6.90	95.95	108.02
1	L	165	GLY	N-CA-C	-6.90	104.10	113.27
1	C	442	SER	N-CA-C	6.88	121.94	112.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	163	ASP	N-CA-C	-6.88	104.89	113.28
1	G	388	LEU	N-CA-C	-6.87	101.46	110.39
1	B	75	ASN	N-CA-C	6.87	120.13	111.69
1	D	102	THR	CA-C-N	6.87	127.28	119.93
1	D	102	THR	C-N-CA	6.87	127.28	119.93
1	H	338	ASP	CA-C-N	6.86	128.42	119.84
1	H	338	ASP	C-N-CA	6.86	128.42	119.84
1	D	160	ALA	CA-C-N	6.86	128.41	119.84
1	D	160	ALA	C-N-CA	6.86	128.41	119.84
1	H	119	MET	N-CA-C	6.86	119.59	111.71
1	B	340	ALA	N-CA-C	-6.85	103.89	111.36
1	E	117	LYS	N-CA-C	-6.84	102.67	111.02
1	A	394	GLU	N-CA-C	-6.84	104.20	112.54
1	M	147	THR	CB-CA-C	-6.84	105.85	114.40
1	I	264	ASP	N-CA-C	-6.84	98.47	109.96
1	J	68	MET	N-CA-C	6.82	119.61	108.55
1	C	291	PRO	N-CA-C	6.81	122.69	113.84
1	G	405	MET	N-CA-C	-6.80	104.79	113.23
2	Q	753	ALA	N-CA-C	-6.80	103.10	111.40
1	K	427	MET	N-CA-C	-6.80	103.95	111.36
1	K	347	LEU	N-CA-C	-6.79	103.42	113.61
1	B	126	ASP	N-CA-C	6.79	119.47	108.34
1	E	24	GLN	N-CA-C	6.78	120.32	110.28
1	B	405	MET	N-CA-C	-6.78	102.98	111.11
1	F	10	GLU	N-CA-C	6.77	120.42	111.75
1	J	290	ASN	CA-C-N	6.77	127.32	119.47
1	J	290	ASN	C-N-CA	6.77	127.32	119.47
1	M	171	ASP	N-CA-C	-6.76	104.51	112.89
2	W	750	GLY	N-CA-C	-6.76	104.12	112.77
1	D	442	SER	N-CA-C	6.76	121.77	112.04
1	G	239	VAL	N-CA-C	6.76	119.53	108.99
1	C	345	LEU	N-CA-C	-6.75	103.84	111.07
1	H	63	ILE	CB-CA-C	-6.75	105.12	111.06
1	I	251	PHE	N-CA-C	6.75	119.93	109.60
1	F	394	GLU	N-CA-C	-6.75	103.99	111.82
1	L	128	ASN	N-CA-C	6.75	119.58	109.25
1	N	195	HIS	N-CA-C	6.74	120.67	109.95
1	A	131	PRO	N-CA-C	6.74	121.52	111.41
1	E	131	PRO	N-CA-C	6.74	121.53	110.55
2	2	755	PHE	N-CA-C	6.73	121.35	113.20
1	E	300	VAL	N-CA-C	-6.73	100.56	107.89
1	H	221	ILE	N-CA-C	-6.73	104.45	111.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	278	ILE	N-CA-C	-6.72	104.30	110.82
1	M	89	VAL	N-CA-C	6.72	117.97	107.28
1	M	425	TRP	N-CA-C	-6.72	104.03	111.36
1	B	305	ALA	N-CA-C	-6.72	101.66	110.39
1	I	297	LYS	N-CA-C	-6.71	104.31	113.30
1	B	360	ASN	N-CA-C	-6.70	103.41	112.26
1	J	325	SER	N-CA-C	6.70	120.55	110.64
1	N	203	GLY	N-CA-C	-6.69	103.98	112.54
1	G	100	ASP	N-CA-C	6.68	121.06	110.70
1	H	225	HIS	N-CA-C	6.68	121.59	113.17
1	C	87	GLY	N-CA-C	-6.68	102.77	111.52
1	E	135	PHE	N-CA-C	6.67	120.49	108.48
1	F	261	GLU	N-CA-C	6.67	119.12	111.11
1	M	334	VAL	N-CA-C	-6.67	97.49	107.37
1	N	191	ALA	CA-C-N	6.67	128.18	119.84
1	N	191	ALA	C-N-CA	6.67	128.18	119.84
1	N	275	ILE	N-CA-C	-6.66	103.74	111.00
1	A	435	TRP	N-CA-C	-6.66	104.10	111.36
1	B	297	LYS	N-CA-C	-6.66	105.15	113.20
1	E	309	VAL	N-CA-C	6.66	117.04	108.12
1	K	159	LEU	N-CA-C	6.66	119.83	111.24
1	C	21	ILE	N-CA-C	6.65	117.46	107.75
1	B	284	SER	N-CA-C	6.65	120.61	112.23
1	B	128	ASN	N-CA-C	6.64	120.52	109.95
1	M	390	ALA	N-CA-C	6.64	121.13	112.89
1	A	47	ASP	N-CA-C	-6.64	104.92	113.16
1	L	21	ILE	N-CA-C	6.64	118.05	108.48
1	F	380	ARG	N-CA-C	-6.64	103.87	112.23
1	B	156	TYR	N-CA-C	6.63	118.70	109.15
2	Q	751	GLN	N-CA-C	-6.63	103.15	111.11
2	Q	750	GLY	N-CA-C	-6.63	104.47	112.49
1	E	412	HIS	N-CA-C	6.63	119.35	111.33
1	J	319	LEU	N-CA-C	-6.62	104.46	112.54
1	G	86	LYS	N-CA-C	-6.62	96.69	110.80
1	B	335	ARG	N-CA-C	6.62	121.34	111.81
1	B	16	GLU	N-CA-C	-6.61	104.96	113.16
1	D	405	MET	N-CA-C	-6.61	103.26	112.45
1	G	73	ASP	N-CA-C	-6.61	99.63	109.15
1	I	151	ASN	N-CA-C	6.60	124.86	110.80
1	N	133	PRO	N-CA-C	6.60	121.69	110.74
1	M	379	GLU	N-CA-C	-6.59	104.13	111.71
1	J	282	ALA	CA-C-N	-6.58	110.80	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	282	ALA	C-N-CA	-6.58	110.80	120.28
1	A	116	LEU	N-CA-C	-6.58	105.13	113.02
1	H	199	PHE	N-CA-C	6.58	119.43	109.23
1	J	356	ASP	N-CA-C	-6.58	103.33	111.75
1	C	55	SER	N-CA-C	-6.57	105.37	113.19
1	K	24	GLN	N-CA-C	6.57	119.42	110.55
1	N	385	ILE	N-CA-C	6.57	119.09	109.63
1	H	47	ASP	N-CA-C	-6.57	105.23	113.18
1	A	338	ASP	CA-C-N	6.57	128.05	119.84
1	A	338	ASP	C-N-CA	6.57	128.05	119.84
1	J	347	LEU	N-CA-C	-6.56	104.30	112.90
1	B	73	ASP	N-CA-C	-6.56	99.70	109.15
1	L	182	GLU	N-CA-C	-6.56	99.70	109.15
1	D	107	ASP	N-CA-C	-6.55	99.42	109.64
1	E	84	ALA	N-CA-C	6.55	119.44	109.62
1	E	177	GLU	N-CA-C	-6.55	104.22	111.36
1	N	313	ALA	N-CA-C	-6.54	103.90	112.41
2	1	757	TYR	CB-CA-C	-6.54	100.56	110.90
1	F	437	ARG	N-CA-C	6.53	119.40	111.82
2	1	753	ALA	N-CA-C	-6.53	104.96	113.12
1	L	220	THR	N-CA-C	6.53	119.72	111.69
1	K	284	SER	N-CA-C	6.53	121.36	112.68
1	C	405	MET	N-CA-C	-6.52	104.25	111.36
1	E	368	ILE	N-CA-C	6.52	118.52	109.45
1	K	232	MET	CA-C-N	6.52	126.75	119.32
1	K	232	MET	C-N-CA	6.52	126.75	119.32
1	N	272	LYS	N-CA-C	6.52	118.39	111.28
1	J	273	HIS	N-CA-C	-6.52	104.01	112.68
1	L	56	SER	N-CA-C	-6.51	105.08	113.16
2	R	749	GLU	N-CA-C	-6.51	104.98	113.12
1	G	420	ALA	N-CA-C	6.50	118.24	111.03
1	H	117	LYS	N-CA-C	-6.50	103.47	111.40
1	I	117	LYS	N-CA-C	-6.50	103.47	111.40
1	L	439	GLN	N-CA-C	6.49	119.62	111.24
1	M	142	GLU	N-CA-C	-6.49	103.89	110.97
1	B	336	SER	N-CA-C	-6.49	105.25	113.43
1	N	167	ASN	N-CA-C	-6.49	103.89	112.72
1	I	405	MET	N-CA-C	-6.49	103.83	111.03
1	N	370	ARG	N-CA-C	6.49	119.40	107.73
1	B	308	TYR	N-CA-C	6.48	120.06	109.76
1	L	130	GLY	CA-C-N	-6.48	111.74	119.84
1	L	130	GLY	C-N-CA	-6.48	111.74	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	71	TYR	CA-C-N	6.47	129.97	120.46
1	K	71	TYR	C-N-CA	6.47	129.97	120.46
1	L	388	LEU	N-CA-C	-6.47	101.69	110.36
1	D	147	THR	N-CA-C	-6.46	100.90	110.46
1	K	291	PRO	N-CA-C	6.45	121.97	114.03
1	I	57	ILE	CB-CA-C	-6.45	103.62	111.88
1	D	132	GLU	CA-C-N	6.45	127.46	119.98
1	D	132	GLU	C-N-CA	6.45	127.46	119.98
1	F	369	ASP	N-CA-C	-6.44	106.05	114.04
1	E	170	ARG	N-CA-C	-6.44	102.77	112.04
1	H	147	THR	N-CA-C	-6.43	100.17	109.31
1	B	63	ILE	N-CA-C	6.43	117.09	111.56
1	N	35	VAL	N-CA-C	-6.43	99.21	108.53
1	B	433	HIS	CA-C-N	6.43	126.12	119.56
1	B	433	HIS	C-N-CA	6.43	126.12	119.56
1	F	197	ILE	N-CA-C	-6.42	98.79	108.17
1	I	219	LYS	N-CA-C	6.42	119.27	111.82
1	G	127	PHE	N-CA-C	-6.41	99.24	109.76
1	I	35	VAL	N-CA-C	-6.41	99.14	108.89
1	I	441	MET	N-CA-C	6.41	119.22	111.40
1	N	130	GLY	N-CA-C	-6.41	99.27	112.34
1	D	208	CYS	N-CA-C	-6.39	104.97	112.89
1	J	331	ARG	CG-CD-NE	-6.39	97.94	112.00
1	B	186	SER	N-CA-C	-6.39	100.11	109.18
1	C	305	ALA	CA-C-N	6.38	127.82	119.84
1	C	305	ALA	C-N-CA	6.38	127.82	119.84
1	L	263	ALA	N-CA-C	6.36	119.88	110.46
1	N	100	ASP	N-CA-C	6.36	120.68	112.41
1	E	29	LEU	N-CA-C	-6.35	105.51	113.20
1	D	69	TYR	N-CA-C	6.35	119.88	109.85
2	W	752	ASN	N-CA-C	-6.34	104.46	111.82
1	A	305	ALA	CA-C-N	6.34	126.70	119.92
1	A	305	ALA	C-N-CA	6.34	126.70	119.92
2	Q	747	MET	N-CA-C	-6.34	103.66	111.33
1	D	385	ILE	N-CA-C	6.34	116.95	107.51
1	M	239	VAL	N-CA-C	-6.34	96.16	109.34
1	A	248	LEU	N-CA-C	6.33	119.56	109.24
1	C	349	VAL	N-CA-C	6.33	119.00	111.09
1	D	118	GLU	N-CA-C	-6.32	105.67	113.19
1	M	153	LYS	N-CA-C	-6.32	95.17	107.62
1	E	340	ALA	N-CA-C	-6.32	104.88	112.59
1	A	440	TYR	N-CA-C	6.32	121.03	112.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	175	GLU	N-CA-C	-6.31	104.65	112.72
1	G	322	ILE	N-CA-C	-6.30	100.71	107.77
1	D	347	LEU	N-CA-C	6.30	118.15	111.28
1	B	166	GLU	N-CA-C	6.30	122.77	110.56
1	G	212	GLN	N-CA-C	-6.30	104.33	111.07
1	K	333	GLU	N-CA-C	6.30	118.22	109.15
1	H	135	PHE	N-CA-C	6.29	117.96	108.46
1	N	45	ALA	N-CA-C	6.29	117.83	110.97
1	N	145	GLU	N-CA-C	6.29	120.39	109.82
1	N	207	SER	N-CA-C	6.29	118.22	111.36
1	E	167	ASN	N-CA-C	-6.29	104.17	112.34
1	G	157	PHE	N-CA-C	6.28	122.03	113.37
1	C	28	ILE	N-CA-C	6.28	119.83	111.17
1	K	403	GLU	N-CA-C	6.27	120.03	112.38
1	B	232	MET	CA-C-N	6.26	127.66	119.84
1	B	232	MET	C-N-CA	6.26	127.66	119.84
1	F	188	HIS	N-CA-C	-6.26	100.29	109.18
1	E	443	GLN	N-CA-C	-6.26	104.70	112.90
1	D	71	TYR	CA-C-N	6.25	127.92	120.23
1	D	71	TYR	C-N-CA	6.25	127.92	120.23
1	D	342	ASN	CA-C-N	6.25	127.66	119.84
1	D	342	ASN	C-N-CA	6.25	127.66	119.84
1	E	197	ILE	N-CA-C	-6.25	98.67	108.86
1	J	114	ARG	N-CA-C	-6.25	104.39	111.14
1	N	371	ASN	N-CA-C	6.25	121.95	113.21
1	G	191	ALA	CA-C-N	6.24	127.64	119.84
1	G	191	ALA	C-N-CA	6.24	127.64	119.84
1	B	190	VAL	N-CA-C	6.24	116.91	110.36
1	F	145	GLU	N-CA-C	6.23	118.65	109.62
1	D	255	VAL	N-CA-C	6.23	116.83	107.80
1	B	342	ASN	CA-C-N	6.22	127.62	119.84
1	B	342	ASN	C-N-CA	6.22	127.62	119.84
1	N	145	GLU	CA-C-N	-6.22	114.32	120.98
1	N	145	GLU	C-N-CA	-6.22	114.32	120.98
1	F	315	ASN	N-CA-C	6.22	118.31	108.79
1	B	280	LYS	N-CA-C	6.21	117.72	111.07
1	N	36	GLU	N-CA-C	6.20	119.01	108.90
1	D	413	LEU	N-CA-C	-6.20	103.83	111.33
1	L	209	ASP	N-CA-C	-6.19	104.44	111.07
1	G	129	LEU	N-CA-C	6.19	120.64	107.70
1	D	74	LEU	N-CA-C	6.19	120.39	112.34
1	F	205	VAL	N-CA-C	6.19	118.79	111.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	331	ARG	CA-CB-CG	-6.18	101.73	114.10
1	F	137	LEU	N-CA-C	-6.18	98.34	108.41
1	C	238	GLY	N-CA-C	-6.18	106.89	114.92
1	G	121	ASP	N-CA-C	-6.18	103.48	111.02
1	B	402	ASN	N-CA-C	6.17	118.04	109.15
1	C	353	ALA	N-CA-C	-6.17	105.60	113.01
1	B	341	ALA	N-CA-C	6.17	119.78	110.64
1	C	208	CYS	N-CA-C	-6.17	105.24	112.89
1	M	151	ASN	N-CA-C	6.17	118.80	111.71
1	E	279	VAL	N-CA-C	-6.17	105.64	113.22
1	J	21	ILE	N-CA-C	6.17	117.60	107.24
1	K	270	THR	N-CA-C	-6.17	104.62	111.71
1	C	191	ALA	N-CA-C	6.17	118.80	110.29
1	G	349	VAL	N-CA-C	6.16	116.34	110.42
1	K	290	ASN	N-CA-C	-6.16	99.05	110.02
1	M	359	LYS	N-CA-C	6.15	120.92	113.17
1	F	368	ILE	CB-CA-C	-6.15	104.59	111.23
1	D	26	THR	N-CA-C	6.14	119.48	109.59
1	K	87	GLY	N-CA-C	-6.14	103.45	111.37
1	M	290	ASN	CA-C-N	6.13	127.50	119.84
1	M	290	ASN	C-N-CA	6.13	127.50	119.84
1	I	370	ARG	N-CA-C	-6.12	98.55	108.41
2	1	759	ASN	N-CA-C	6.12	121.23	111.81
1	A	392	LEU	N-CA-C	-6.12	104.92	112.38
1	J	269	GLU	N-CA-C	-6.11	104.62	111.28
2	U	748	LEU	N-CA-C	-6.11	104.90	112.90
1	D	21	ILE	N-CA-C	6.11	116.81	107.77
1	D	424	GLU	N-CA-C	-6.09	104.33	110.97
1	I	438	GLU	N-CA-C	-6.09	104.58	112.68
1	N	204	ALA	CA-C-N	6.09	128.23	120.56
1	N	204	ALA	C-N-CA	6.09	128.23	120.56
1	K	101	GLY	N-CA-C	-6.09	106.70	114.37
1	A	162	THR	N-CA-C	6.08	123.75	110.80
1	L	73	ASP	N-CA-C	-6.08	100.65	109.59
1	M	71	TYR	CA-C-N	6.08	127.44	119.84
1	M	71	TYR	C-N-CA	6.08	127.44	119.84
1	J	337	VAL	CB-CA-C	-6.08	102.02	111.26
1	N	126	ASP	N-CA-C	6.07	118.80	108.90
1	H	397	GLU	N-CA-C	-6.07	104.30	111.03
1	K	312	SER	N-CA-C	6.06	117.35	108.14
1	D	300	VAL	CA-C-N	-6.05	113.71	119.76
1	D	300	VAL	C-N-CA	-6.05	113.71	119.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	1	757	TYR	CA-CB-CG	6.05	124.78	113.90
1	A	385	ILE	N-CA-C	6.04	117.16	107.73
1	H	110	ASN	N-CA-C	6.04	119.48	111.75
1	H	211	ILE	CB-CA-C	-6.04	104.15	112.24
1	D	331	ARG	N-CA-C	6.04	117.41	108.60
1	E	421	LYS	N-CA-C	6.04	120.92	113.50
1	M	232	MET	CA-C-N	6.04	125.52	119.24
1	M	232	MET	C-N-CA	6.04	125.52	119.24
1	E	287	ALA	N-CA-C	-6.03	104.70	111.28
1	J	128	ASN	N-CA-C	6.03	119.08	109.24
1	E	127	PHE	N-CA-C	-6.02	97.97	110.80
1	A	113	LYS	N-CA-C	-6.02	104.83	111.82
1	G	35	VAL	N-CA-C	-6.02	99.08	107.80
1	A	402	ASN	N-CA-C	6.01	118.58	108.23
1	I	335	ARG	N-CA-C	6.01	120.24	113.02
1	J	94	CYS	N-CA-C	6.01	119.01	109.81
1	N	425	TRP	N-CA-C	-6.01	104.65	111.14
1	K	305	ALA	CA-C-N	6.01	126.02	119.89
1	K	305	ALA	C-N-CA	6.01	126.02	119.89
1	A	298	ARG	N-CA-C	-6.01	106.11	113.50
1	C	290	ASN	CA-C-N	6.01	125.69	119.56
1	C	290	ASN	C-N-CA	6.01	125.69	119.56
1	I	305	ALA	CA-C-N	6.01	126.02	119.89
1	I	305	ALA	C-N-CA	6.01	126.02	119.89
1	B	302	GLY	N-CA-C	6.00	124.40	115.64
1	H	34	ASN	N-CA-C	6.00	117.65	108.52
1	D	438	GLU	CA-C-N	6.00	128.81	120.29
1	D	438	GLU	C-N-CA	6.00	128.81	120.29
1	B	423	ILE	N-CA-C	-6.00	105.87	111.45
1	J	71	TYR	CA-C-N	6.00	129.28	120.46
1	J	71	TYR	C-N-CA	6.00	129.28	120.46
1	A	224	LYS	N-CA-C	-6.00	104.75	111.28
1	G	173	VAL	N-CA-C	5.99	116.65	110.36
1	C	11	LYS	N-CA-C	-5.99	105.24	112.54
1	G	440	TYR	N-CA-C	5.98	120.58	113.28
1	G	321	ARG	CA-C-N	-5.98	116.80	123.02
1	G	321	ARG	C-N-CA	-5.98	116.80	123.02
1	M	64	GLU	N-CA-C	5.98	118.23	108.55
1	C	317	SER	CA-C-N	5.98	125.74	119.76
1	C	317	SER	C-N-CA	5.98	125.74	119.76
1	E	422	GLU	N-CA-C	-5.97	104.70	112.23
1	G	117	LYS	N-CA-C	-5.97	104.84	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	168	CYS	N-CA-C	-5.97	104.85	111.36
1	H	121	ASP	N-CA-C	-5.97	104.84	111.71
2	U	749	GLU	N-CA-C	-5.97	104.12	111.40
1	F	31	THR	N-CA-C	-5.97	100.07	109.50
1	A	416	HIS	N-CA-C	5.96	119.65	112.38
1	K	133	PRO	N-CA-C	5.96	119.98	110.21
1	J	130	GLY	N-CA-C	-5.96	100.19	112.34
1	J	263	ALA	N-CA-C	5.95	118.26	109.69
1	B	271	ALA	N-CA-C	5.95	118.72	111.82
1	J	11	LYS	N-CA-C	-5.94	104.88	111.71
1	E	402	ASN	N-CA-C	5.94	118.80	108.76
1	E	101	GLY	CA-C-N	5.93	128.92	120.49
1	E	101	GLY	C-N-CA	5.93	128.92	120.49
2	2	756	ARG	N-CA-C	-5.93	105.87	113.23
1	F	64	GLU	N-CA-C	5.93	118.06	107.80
1	M	408	ALA	N-CA-C	-5.93	105.54	112.89
1	A	135	PHE	N-CA-C	5.92	116.22	107.88
1	L	382	GLU	N-CA-C	-5.91	106.20	113.41
1	M	374	VAL	N-CA-C	5.91	121.63	109.34
1	E	190	VAL	N-CA-C	5.91	121.62	109.34
1	K	17	ASN	N-CA-C	5.90	123.36	110.80
1	N	103	PRO	N-CA-C	-5.89	100.34	112.47
1	B	388	LEU	N-CA-C	-5.88	96.82	109.81
1	G	217	VAL	N-CA-C	5.88	116.06	110.42
1	D	195	HIS	N-CA-C	5.88	117.71	107.49
1	D	368	ILE	N-CA-C	5.88	116.85	107.98
1	H	143	LYS	N-CA-C	-5.88	103.66	111.24
1	H	443	GLN	N-CA-C	-5.88	105.94	113.23
1	G	119	MET	N-CA-C	5.87	117.37	110.97
1	H	107	ASP	CA-C-N	5.87	127.18	119.84
1	H	107	ASP	C-N-CA	5.87	127.18	119.84
1	F	93	ILE	N-CA-C	-5.87	101.36	109.46
2	P	753	ALA	CA-C-N	5.86	128.41	120.38
2	P	753	ALA	C-N-CA	5.86	128.41	120.38
1	N	373	TYR	N-CA-C	-5.85	104.86	112.23
1	H	419	GLU	N-CA-C	-5.85	105.25	112.38
1	J	340	ALA	N-CA-C	-5.85	104.99	111.36
1	K	55	SER	N-CA-C	5.85	119.51	112.38
1	C	85	GLU	N-CA-C	5.84	118.81	110.68
1	M	313	ALA	N-CA-C	-5.83	106.16	113.28
1	C	257	ALA	N-CA-C	5.83	120.13	113.19
1	F	115	ILE	N-CA-C	-5.83	104.12	112.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	277	GLY	N-CA-C	5.83	121.03	113.27
1	J	443	GLN	N-CA-C	-5.83	103.65	112.04
1	F	297	LYS	N-CA-C	-5.82	98.40	110.80
1	G	291	PRO	N-CA-C	5.82	124.46	112.47
1	A	329	SER	N-CA-C	5.82	119.14	112.57
1	K	63	ILE	CB-CA-C	-5.82	105.87	111.05
1	C	312	SER	N-CA-C	5.81	116.08	107.88
1	E	309	VAL	CB-CA-C	-5.81	105.01	111.35
2	T	760	ARG	N-CA-C	-5.81	94.73	111.00
1	K	69	TYR	N-CA-C	5.81	118.68	110.14
1	L	435	TRP	N-CA-C	-5.81	104.87	111.14
1	D	0	HIS	CB-CA-C	5.80	120.69	110.36
1	H	69	TYR	N-CA-C	5.80	119.51	110.17
1	N	232	MET	CA-C-N	5.80	127.09	119.84
1	N	232	MET	C-N-CA	5.80	127.09	119.84
1	D	404	VAL	N-CA-C	5.80	121.01	113.07
1	D	5	THR	N-CA-C	-5.80	101.34	109.69
1	N	181	PHE	N-CA-C	5.79	118.10	108.20
1	E	142	GLU	N-CA-C	-5.79	103.96	111.02
1	F	94	CYS	N-CA-C	5.79	117.92	108.55
1	L	381	MET	N-CA-C	-5.79	106.12	112.72
1	I	74	LEU	N-CA-C	5.78	118.33	111.33
1	A	98	ASN	CA-C-N	5.78	127.06	119.84
1	A	98	ASN	C-N-CA	5.78	127.06	119.84
1	D	212	GLN	N-CA-C	-5.78	103.78	111.24
1	J	47	ASP	N-CA-C	-5.78	106.31	113.19
1	N	208	CYS	N-CA-C	-5.78	105.73	112.89
1	B	27	ASP	N-CA-C	5.78	118.32	110.35
1	C	344	TYR	N-CA-C	5.77	120.36	112.04
1	L	256	ASN	N-CA-C	5.77	117.46	109.15
1	N	230	THR	N-CA-C	5.77	118.51	108.76
1	F	205	VAL	CB-CA-C	-5.77	103.22	112.16
1	F	76	THR	N-CA-C	-5.77	106.15	112.72
1	E	418	ILE	N-CA-C	-5.76	104.74	110.62
1	K	98	ASN	N-CA-C	-5.76	101.83	109.84
2	Y	751	GLN	N-CA-C	-5.76	98.53	110.80
1	A	166	GLU	N-CA-C	5.76	123.06	110.80
1	N	141	ASP	N-CA-C	5.76	123.06	110.80
1	H	291	PRO	N-CA-C	5.75	124.32	112.47
1	D	265	LEU	N-CA-C	-5.75	104.95	113.40
1	F	131	PRO	N-CA-C	5.75	120.21	111.19
1	L	228	HIS	N-CA-C	-5.75	100.92	110.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	R	752	ASN	N-CA-C	-5.75	104.21	111.11
1	B	346	ALA	N-CA-C	-5.75	104.99	112.23
1	F	41	GLN	N-CA-C	5.74	120.02	113.19
1	G	431	GLN	N-CA-C	5.73	118.02	109.59
1	C	334	VAL	CB-CA-C	-5.73	104.49	111.88
1	B	258	PHE	N-CA-C	-5.73	106.33	113.38
1	K	317	SER	CA-C-N	-5.73	114.03	119.76
1	K	317	SER	C-N-CA	-5.73	114.03	119.76
1	L	13	VAL	CA-C-N	5.73	128.42	120.63
1	L	13	VAL	C-N-CA	5.73	128.42	120.63
1	B	225	HIS	N-CA-C	-5.73	105.41	113.20
2	Q	753	ALA	CA-C-N	5.73	128.27	120.54
2	Q	753	ALA	C-N-CA	5.73	128.27	120.54
1	E	112	LEU	N-CA-C	-5.72	105.02	112.23
1	K	151	ASN	N-CA-C	5.72	119.89	113.02
1	M	296	TYR	N-CA-C	5.72	120.26	113.28
1	G	122	LEU	N-CA-C	5.72	119.36	112.38
1	I	424	GLU	N-CA-C	-5.72	104.05	111.02
1	K	21	ILE	N-CA-C	5.72	116.10	107.75
1	A	254	GLY	N-CA-C	-5.71	106.10	114.61
1	E	313	ALA	N-CA-C	-5.71	103.47	110.61
1	D	438	GLU	N-CA-C	-5.71	104.42	111.33
1	I	290	ASN	N-CA-C	-5.71	100.54	108.76
1	A	211	ILE	N-CA-C	-5.71	104.95	110.72
1	C	147	THR	N-CA-C	-5.71	100.94	109.96
1	B	70	LEU	N-CA-C	5.71	119.16	107.69
1	I	395	ALA	N-CA-C	5.70	117.36	111.03
2	V	753	ALA	N-CA-C	-5.70	106.18	113.02
1	B	191	ALA	CA-C-N	5.70	126.96	119.84
1	B	191	ALA	C-N-CA	5.70	126.96	119.84
1	K	184	GLU	N-CA-C	5.70	118.35	111.40
1	G	301	PRO	N-CA-C	5.69	120.17	110.95
1	L	229	ALA	N-CA-C	-5.69	99.01	108.34
1	M	190	VAL	CB-CA-C	-5.68	104.47	112.14
1	D	2	ALA	N-CA-C	5.68	122.89	110.80
1	I	218	VAL	CB-CA-C	-5.67	104.61	112.04
1	G	356	ASP	N-CA-C	-5.67	104.11	111.02
1	K	290	ASN	CA-C-N	5.66	125.76	119.87
1	K	290	ASN	C-N-CA	5.66	125.76	119.87
1	G	172	ILE	N-CA-C	-5.66	105.10	110.42
1	C	103	PRO	N-CA-C	5.66	120.48	111.26
1	F	65	GLU	N-CA-C	-5.66	102.26	110.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	68	MET	N-CA-C	5.66	115.85	107.88
1	B	35	VAL	N-CA-C	-5.65	101.75	109.55
1	B	183	ILE	N-CA-C	5.65	116.90	108.54
1	E	43	GLY	N-CA-C	5.64	119.05	112.50
1	F	127	PHE	N-CA-C	-5.64	99.21	108.41
1	L	356	ASP	N-CA-C	-5.64	105.66	112.54
1	J	189	GLU	N-CA-C	5.64	118.77	110.59
1	E	76	THR	N-CA-C	-5.64	106.72	113.21
1	D	383	ASN	N-CA-C	-5.64	101.85	110.14
1	F	221	ILE	CB-CA-C	-5.64	101.90	111.37
1	N	374	VAL	N-CA-C	-5.63	104.16	112.04
1	G	95	ASP	N-CA-C	-5.63	101.11	110.17
1	C	377	LYS	N-CA-C	-5.62	105.53	112.90
1	C	225	HIS	N-CA-C	-5.62	107.01	112.97
1	F	381	MET	N-CA-C	-5.62	105.68	112.54
1	K	269	GLU	N-CA-C	5.62	117.49	111.36
1	J	67	ASP	N-CA-C	5.62	117.55	110.24
1	G	379	GLU	N-CA-C	-5.62	105.93	112.89
1	J	182	GLU	N-CA-C	-5.61	99.37	108.41
1	K	57	ILE	CB-CA-C	-5.61	104.47	112.22
1	K	80	PHE	N-CA-C	5.61	117.75	109.50
1	I	223	ARG	N-CA-C	-5.61	106.27	113.23
1	J	70	LEU	N-CA-C	5.61	118.97	107.37
1	N	375	MET	N-CA-C	5.61	119.11	110.42
1	L	195	HIS	N-CA-C	5.60	117.69	109.24
1	E	93	ILE	N-CA-C	-5.59	100.17	108.45
1	C	287	ALA	N-CA-C	-5.59	104.82	111.69
1	I	401	SER	N-CA-C	5.58	117.36	111.28
1	J	253	ASN	N-CA-CB	-5.58	108.53	114.10
1	B	285	PHE	N-CA-C	-5.57	106.34	113.02
1	H	356	ASP	N-CA-C	-5.57	106.46	113.20
1	N	63	ILE	CB-CA-C	-5.57	105.40	110.63
1	F	125	SER	N-CA-C	5.56	118.53	111.69
1	J	109	ARG	N-CA-C	5.56	117.42	111.36
1	E	185	ALA	N-CA-C	5.56	116.92	108.07
1	K	182	GLU	N-CA-C	-5.56	98.17	108.24
1	N	290	ASN	CA-C-N	5.56	126.79	119.84
1	N	290	ASN	C-N-CA	5.56	126.79	119.84
1	F	368	ILE	N-CA-C	5.56	116.37	107.98
1	L	313	ALA	N-CA-C	-5.56	106.50	113.28
1	I	258	PHE	N-CA-C	-5.55	105.11	113.89
1	J	125	SER	N-CA-C	5.55	120.04	112.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	257	ALA	N-CA-C	5.55	117.78	111.11
1	B	288	VAL	N-CA-C	5.55	116.21	110.82
1	M	23	LEU	N-CA-C	-5.55	97.56	107.28
1	A	85	GLU	N-CA-C	5.55	122.63	110.80
1	M	274	PHE	N-CA-C	-5.55	104.92	110.97
1	A	405	MET	N-CA-C	-5.55	105.31	111.36
1	E	63	ILE	CB-CA-C	-5.55	105.25	111.80
1	B	165	GLY	N-CA-C	-5.55	105.97	113.24
1	D	36	GLU	N-CA-C	5.55	118.55	107.62
1	E	203	GLY	N-CA-C	-5.55	104.60	112.37
1	L	297	LYS	N-CA-C	-5.55	105.72	112.88
1	N	151	ASN	N-CA-C	5.55	119.31	112.54
1	N	307	CYS	N-CA-C	-5.54	106.42	114.12
1	M	139	LYS	N-CA-C	-5.54	103.04	110.24
1	B	225	HIS	CB-CA-C	-5.54	104.35	111.22
1	F	218	VAL	N-CA-C	-5.54	104.47	110.23
1	K	136	PHE	N-CA-C	-5.54	102.26	110.46
1	K	305	ALA	N-CA-C	5.54	116.80	109.93
1	M	61	VAL	N-CA-C	-5.54	106.01	111.77
1	B	6	ARG	N-CA-C	5.53	120.50	111.37
1	F	406	VAL	N-CA-C	-5.53	105.11	110.42
1	D	380	ARG	N-CA-C	-5.53	105.17	111.14
1	N	256	ASN	N-CA-C	-5.53	102.70	110.50
1	H	181	PHE	N-CA-C	5.53	118.04	110.24
1	E	425	TRP	CA-C-N	-5.52	112.88	120.28
1	E	425	TRP	C-N-CA	-5.52	112.88	120.28
1	M	275	ILE	N-CA-C	5.52	116.16	110.36
1	C	347	LEU	N-CA-C	5.52	118.06	111.71
1	D	190	VAL	N-CA-C	5.52	120.81	109.34
1	H	298	ARG	N-CA-C	-5.52	106.22	113.12
1	C	159	LEU	N-CA-C	5.51	118.45	108.69
1	J	275	ILE	N-CA-C	-5.51	104.57	110.36
1	B	416	HIS	N-CA-C	5.51	117.09	111.14
1	D	182	GLU	N-CA-C	-5.51	101.36	109.62
1	K	412	HIS	N-CA-C	5.51	117.09	111.14
1	I	177	GLU	N-CA-C	-5.51	104.70	111.75
1	A	95	ASP	N-CA-C	-5.50	103.64	110.41
1	D	284	SER	N-CA-C	5.50	118.34	111.24
1	N	26	THR	N-CA-C	5.49	117.69	108.96
1	K	390	ALA	N-CA-C	5.49	119.97	113.28
1	D	378	GLU	N-CA-C	5.48	119.97	113.28
2	S	757	TYR	CA-CB-CG	5.47	123.75	113.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	8	ASP	N-CA-C	5.47	116.93	110.97
1	B	352	ALA	N-CA-C	-5.46	106.74	113.41
1	M	101	GLY	N-CA-C	5.46	126.12	113.18
1	I	328	ILE	N-CA-C	5.46	118.70	111.17
1	I	346	ALA	N-CA-C	-5.46	105.88	112.54
2	V	751	GLN	N-CA-C	-5.46	106.69	113.19
1	C	74	LEU	N-CA-C	5.45	118.73	111.75
1	D	194	GLN	N-CA-C	-5.45	101.69	110.14
1	I	356	ASP	N-CA-C	-5.45	104.74	111.33
1	J	191	ALA	N-CA-C	5.45	117.83	110.31
1	H	81	PRO	N-CA-C	5.45	123.69	112.47
1	L	28	ILE	N-CA-C	5.45	116.22	110.72
1	C	237	PHE	N-CA-C	5.44	117.59	109.59
1	D	129	LEU	N-CA-C	5.44	117.28	108.41
1	C	131	PRO	N-CA-C	5.44	119.42	110.55
1	F	382	GLU	N-CA-C	-5.44	106.84	112.93
1	F	269	GLU	N-CA-C	-5.43	106.68	113.15
1	G	320	ILE	N-CA-C	-5.43	98.03	109.34
1	J	380	ARG	N-CA-C	-5.43	105.00	111.69
1	L	216	LEU	N-CA-C	5.43	117.90	111.33
1	N	294	ASN	N-CA-C	5.43	118.70	111.75
1	C	200	LYS	N-CA-C	-5.43	103.22	110.55
1	E	56	SER	N-CA-C	-5.43	106.50	113.01
1	J	5	THR	N-CA-C	-5.43	103.53	110.53
1	F	122	LEU	N-CA-C	-5.42	106.50	113.23
1	F	374	VAL	N-CA-C	5.42	120.05	113.00
1	C	76	THR	N-CA-C	-5.42	105.84	113.20
1	H	156	TYR	N-CA-C	5.41	117.54	108.23
1	N	214	PHE	N-CA-C	5.41	117.03	111.03
1	M	329	SER	N-CA-C	-5.41	104.37	112.54
1	D	0	HIS	CA-CB-CG	5.41	119.21	113.80
1	N	175	GLU	N-CA-C	-5.40	105.80	112.72
1	E	209	ASP	N-CA-C	-5.40	105.39	111.28
1	A	366	ALA	N-CA-C	5.40	117.41	109.42
1	C	5	THR	N-CA-C	-5.40	100.91	109.76
1	E	386	VAL	CB-CA-C	-5.39	105.41	111.23
1	I	385	ILE	N-CA-C	-5.39	98.28	106.42
1	A	308	TYR	N-CA-C	5.39	118.40	109.46
1	J	422	GLU	N-CA-C	-5.38	106.69	113.20
2	V	748	LEU	N-CA-C	-5.38	105.10	110.97
1	G	169	ARG	N-CA-C	-5.38	106.41	112.87
1	M	397	GLU	N-CA-C	-5.38	105.11	110.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	298	ARG	N-CA-C	-5.38	105.86	112.90
2	T	754	HIS	N-CA-C	-5.37	105.84	112.72
1	B	185	ALA	N-CA-C	-5.37	99.53	108.07
1	D	292	THR	N-CA-C	5.37	118.47	110.52
1	F	192	PRO	N-CA-C	-5.37	101.82	110.74
1	N	433	HIS	N-CA-C	5.37	117.49	110.08
1	C	292	THR	N-CA-C	5.37	118.74	110.42
1	H	80	PHE	CA-C-N	5.36	126.54	119.84
1	H	80	PHE	C-N-CA	5.36	126.54	119.84
1	D	54	GLY	N-CA-C	5.36	120.56	114.67
1	D	303	TYR	N-CA-C	-5.36	99.39	110.80
1	J	209	ASP	N-CA-C	-5.36	105.61	111.82
1	B	208	CYS	N-CA-C	-5.35	106.59	113.01
2	T	758	LYS	N-CA-C	5.34	116.79	111.07
1	A	272	LYS	N-CA-C	-5.34	105.50	112.23
1	F	164	LEU	N-CA-C	5.33	120.27	113.55
1	I	42	LEU	N-CA-C	5.33	117.78	111.33
1	A	100	ASP	N-CA-C	-5.33	103.95	110.61
1	A	326	ARG	N-CA-C	5.33	117.57	109.63
1	F	440	TYR	N-CA-C	5.33	119.65	113.20
1	N	322	ILE	N-CA-C	-5.33	102.71	107.56
2	O	758	LYS	N-CA-C	-5.33	105.64	111.82
1	J	420	ALA	N-CA-C	5.32	117.16	111.36
1	H	354	GLY	N-CA-C	-5.32	106.05	112.49
1	A	189	GLU	N-CA-C	5.32	116.86	109.31
1	L	58	GLU	N-CA-C	-5.32	107.33	112.97
1	A	335	ARG	N-CA-C	5.31	119.75	113.16
1	F	184	GLU	N-CA-C	-5.31	105.54	112.23
1	L	319	LEU	N-CA-C	-5.31	106.06	112.54
1	H	348	SER	N-CA-C	-5.31	104.47	111.96
1	F	270	THR	N-CA-C	-5.31	105.62	112.68
1	I	65	GLU	N-CA-C	-5.31	103.34	110.24
1	I	285	PHE	N-CA-C	5.30	119.59	113.18
1	M	97	TYR	N-CA-C	5.30	117.29	108.02
1	M	380	ARG	N-CA-C	-5.29	106.50	113.17
1	F	49	LYS	N-CA-C	5.29	120.01	113.50
1	C	89	VAL	CB-CA-C	-5.29	105.89	112.45
1	G	232	MET	CA-C-N	5.29	126.45	119.84
1	G	232	MET	C-N-CA	5.29	126.45	119.84
1	I	57	ILE	N-CA-C	5.29	115.91	110.36
1	L	114	ARG	N-CA-C	-5.29	105.19	111.69
1	I	53	ASP	N-CA-C	-5.29	99.54	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	405	MET	N-CA-C	-5.29	105.43	111.14
1	E	388	LEU	N-CA-C	-5.28	102.36	110.01
1	E	183	ILE	CB-CA-C	-5.27	105.54	111.23
1	G	154	GLY	N-CA-C	-5.27	101.18	111.03
1	B	390	ALA	N-CA-C	5.27	119.86	113.38
1	D	162	THR	CB-CA-C	-5.27	108.96	116.34
1	M	51	MET	N-CA-C	5.27	116.89	110.41
2	Y	757	TYR	CB-CA-C	-5.27	99.94	110.42
1	D	72	PRO	N-CA-C	5.26	118.77	110.50
1	H	336	SER	N-CA-C	5.26	119.75	113.23
1	J	345	LEU	N-CA-C	-5.26	107.03	113.50
2	X	750	GLY	N-CA-C	-5.26	100.71	113.18
1	B	102	THR	N-CA-C	5.26	117.84	109.64
1	N	79	ILE	N-CA-C	5.26	114.87	106.88
1	M	22	ARG	N-CA-C	-5.26	102.21	110.36
1	C	327	GLY	N-CA-C	-5.26	104.98	111.45
1	H	15	GLU	N-CA-C	5.26	118.95	112.54
1	K	31	THR	N-CA-C	-5.25	102.61	110.23
1	B	97	TYR	N-CA-C	5.25	117.23	108.99
1	F	95	ASP	N-CA-C	-5.25	100.75	109.46
1	I	291	PRO	N-CA-C	5.25	123.28	112.47
1	L	67	ASP	N-CA-C	5.25	117.92	110.10
1	A	375	MET	N-CA-C	-5.24	103.11	110.35
1	D	94	CYS	N-CA-C	5.24	117.65	109.52
1	L	274	PHE	N-CA-C	-5.24	104.62	111.02
1	A	51	MET	N-CA-C	5.24	118.13	109.85
1	F	351	LEU	N-CA-C	-5.24	106.88	113.28
1	B	80	PHE	CA-C-N	5.24	126.39	119.84
1	B	80	PHE	C-N-CA	5.24	126.39	119.84
1	E	28	ILE	N-CA-C	5.24	115.97	110.62
1	F	158	ASP	N-CA-C	5.24	117.45	110.53
1	C	144	GLY	N-CA-C	-5.24	108.02	115.30
1	E	311	TRP	N-CA-C	5.24	116.94	109.14
1	J	97	TYR	N-CA-C	5.23	117.95	108.69
1	N	21	ILE	N-CA-C	5.23	116.23	108.23
1	C	63	ILE	CB-CA-C	-5.23	102.72	111.29
1	M	303	TYR	N-CA-C	5.23	121.94	110.80
1	G	315	ASN	N-CA-C	5.22	117.01	108.55
1	I	135	PHE	N-CA-C	5.22	116.89	108.32
1	L	395	ALA	N-CA-C	5.22	118.81	112.23
1	D	259	PHE	N-CA-C	5.22	118.45	110.20
1	B	175	GLU	N-CA-C	-5.22	105.77	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	123	GLY	N-CA-C	5.22	123.64	115.08
1	E	25	PHE	N-CA-C	-5.22	101.19	108.96
1	H	420	ALA	N-CA-C	5.22	120.68	110.56
1	M	209	ASP	N-CA-C	-5.21	105.02	111.33
2	X	755	PHE	N-CA-C	5.21	119.81	112.72
1	E	173	VAL	N-CA-C	5.21	119.34	112.04
1	N	359	LYS	N-CA-C	5.21	118.42	111.75
1	G	375	MET	N-CA-C	5.21	116.65	110.19
1	G	151	ASN	N-CA-C	5.21	117.63	111.33
1	C	424	GLU	N-CA-C	-5.21	105.29	111.69
1	A	391	THR	N-CA-C	5.20	116.98	109.07
1	B	3	LYS	N-CA-C	-5.20	100.25	108.73
1	I	394	GLU	N-CA-C	-5.20	105.57	112.34
1	E	298	ARG	N-CA-C	-5.20	105.06	111.40
1	J	344	TYR	N-CA-C	5.20	119.62	113.28
1	A	201	TYR	N-CA-C	5.20	117.39	110.53
1	F	157	PHE	CB-CA-C	-5.20	103.30	111.51
1	B	320	ILE	CB-CA-C	-5.20	101.72	110.71
2	U	757	TYR	CA-CB-CG	5.20	123.25	113.90
1	J	124	PHE	N-CA-C	5.20	117.97	110.28
1	C	285	PHE	N-CA-C	-5.19	106.53	112.92
1	N	4	TYR	N-CA-C	-5.19	101.52	109.41
1	K	166	GLU	CA-C-N	-5.19	112.53	121.66
1	K	166	GLU	C-N-CA	-5.19	112.53	121.66
1	N	356	ASP	N-CA-C	-5.19	102.81	111.37
1	C	227	LEU	N-CA-C	5.18	118.19	109.95
1	C	275	ILE	N-CA-C	-5.18	104.84	110.23
2	Y	753	ALA	CA-C-N	5.18	128.19	120.31
2	Y	753	ALA	C-N-CA	5.18	128.19	120.31
1	H	273	HIS	N-CA-C	-5.18	106.12	112.90
1	C	130	GLY	CA-C-N	5.17	125.97	120.13
1	C	130	GLY	C-N-CA	5.17	125.97	120.13
1	A	218	VAL	N-CA-C	-5.17	106.04	110.74
1	J	373	TYR	N-CA-C	-5.17	106.97	113.28
1	D	410	GLY	N-CA-C	-5.17	100.94	113.18
1	D	28	ILE	N-CA-C	5.16	116.51	110.62
1	I	78	VAL	CA-C-N	-5.16	116.79	123.19
1	I	78	VAL	C-N-CA	-5.16	116.79	123.19
1	N	187	HIS	N-CA-C	5.16	116.28	108.07
1	I	332	VAL	N-CA-C	5.16	114.18	106.85
1	I	379	GLU	N-CA-C	-5.16	107.16	113.50
1	N	303	TYR	N-CA-C	5.15	121.77	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	124	PHE	N-CA-C	5.15	116.74	110.41
1	D	388	LEU	N-CA-C	-5.15	104.14	110.31
1	J	326	ARG	CB-CA-C	-5.14	108.97	116.53
1	M	365	PRO	N-CA-C	-5.14	104.02	111.22
1	N	160	ALA	CA-C-N	5.14	126.27	119.84
1	N	160	ALA	C-N-CA	5.14	126.27	119.84
1	C	336	SER	N-CA-C	5.14	116.96	111.36
1	G	366	ALA	CA-C-N	-5.14	114.02	119.98
1	G	366	ALA	C-N-CA	-5.14	114.02	119.98
1	B	83	THR	CB-CA-C	-5.14	98.95	109.38
1	E	353	ALA	N-CA-C	-5.14	107.01	113.28
1	B	337	VAL	CB-CA-C	-5.13	102.87	111.29
1	N	271	ALA	N-CA-C	-5.13	104.76	111.02
1	B	71	TYR	N-CA-C	5.13	117.66	108.47
1	B	107	ASP	CB-CA-C	5.13	117.72	109.41
1	F	44	LYS	N-CA-C	-5.13	105.67	112.34
2	T	754	HIS	CA-C-N	5.13	127.16	120.28
2	T	754	HIS	C-N-CA	5.13	127.16	120.28
1	F	132	GLU	CA-C-N	5.13	126.25	119.84
1	F	132	GLU	C-N-CA	5.13	126.25	119.84
1	B	149	GLU	N-CA-C	5.13	117.29	107.75
1	J	342	ASN	CA-C-N	5.13	126.25	119.84
1	J	342	ASN	C-N-CA	5.13	126.25	119.84
1	F	298	ARG	N-CA-C	-5.12	99.88	110.80
1	N	57	ILE	N-CA-C	-5.12	105.12	112.35
1	B	91	ARG	N-CA-C	5.12	116.85	108.55
1	K	428	PHE	N-CA-C	5.12	116.94	111.36
1	B	169	ARG	N-CA-C	-5.12	105.88	111.82
1	K	170	ARG	N-CA-C	-5.12	104.64	111.24
1	D	220	THR	N-CA-C	5.12	117.84	111.24
1	I	98	ASN	CA-C-N	5.12	124.73	119.05
1	I	98	ASN	C-N-CA	5.12	124.73	119.05
1	K	95	ASP	N-CA-C	-5.12	101.36	109.96
1	M	375	MET	N-CA-C	5.12	121.69	110.80
1	I	354	GLY	N-CA-C	-5.11	101.06	113.18
1	L	353	ALA	CA-C-N	-5.11	114.37	119.94
1	L	353	ALA	C-N-CA	-5.11	114.37	119.94
1	M	413	LEU	N-CA-C	5.11	117.59	111.71
1	A	109	ARG	N-CA-C	5.11	119.80	111.37
1	H	313	ALA	N-CA-C	-5.11	106.98	114.39
1	J	326	ARG	N-CA-C	5.11	113.66	108.75
1	L	160	ALA	N-CA-C	5.11	121.11	109.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	69	TYR	N-CA-C	5.11	118.44	110.32
1	D	239	VAL	N-CA-C	5.11	116.63	108.87
1	H	22	ARG	N-CA-C	-5.11	102.96	110.52
1	D	0	HIS	CA-C-O	-5.10	115.25	121.78
1	K	297	LYS	N-CA-C	-5.10	107.06	113.28
1	C	164	LEU	N-CA-C	-5.10	105.36	112.45
1	F	73	ASP	N-CA-C	-5.10	99.48	108.20
1	C	158	ASP	N-CA-C	5.10	118.02	109.96
1	J	95	ASP	N-CA-C	-5.10	100.86	109.07
1	C	7	GLU	N-CA-C	-5.09	106.57	112.89
1	A	194	GLN	N-CA-C	-5.09	99.11	108.02
1	H	269	GLU	N-CA-C	-5.09	105.62	111.07
1	J	416	HIS	N-CA-C	5.09	117.49	111.33
1	B	438	GLU	N-CA-C	-5.09	107.02	113.18
1	N	142	GLU	N-CA-C	5.08	117.21	111.11
1	D	221	ILE	N-CA-C	-5.08	104.94	110.23
1	J	4	TYR	CB-CA-C	-5.08	104.44	110.94
1	N	115	ILE	N-CA-C	-5.08	104.83	110.62
1	C	116	LEU	N-CA-C	-5.08	106.59	112.89
1	B	433	HIS	N-CA-C	5.08	116.89	109.84
1	A	209	ASP	N-CA-C	-5.07	105.84	112.23
1	I	327	GLY	N-CA-C	-5.07	102.59	112.02
1	I	390	ALA	N-CA-C	5.07	116.81	111.28
1	A	82	TRP	CA-C-N	-5.07	115.34	122.94
1	A	82	TRP	C-N-CA	-5.07	115.34	122.94
1	C	322	ILE	CA-C-N	-5.07	115.01	120.03
1	C	322	ILE	C-N-CA	-5.07	115.01	120.03
1	G	305	ALA	N-CA-C	5.07	116.95	109.50
1	I	77	PHE	N-CA-C	-5.07	103.09	110.24
1	H	86	LYS	N-CA-C	-5.06	107.08	114.12
1	C	60	PHE	N-CA-C	5.06	121.58	110.80
1	A	247	ASN	N-CA-C	5.06	117.16	107.75
1	M	311	TRP	N-CA-C	5.06	117.65	109.40
1	C	43	GLY	N-CA-C	-5.06	101.19	113.18
1	A	422	GLU	N-CA-C	-5.05	106.03	113.61
1	B	279	VAL	CB-CA-C	-5.05	105.42	112.04
1	E	140	LEU	N-CA-C	-5.05	102.02	109.94
1	E	401	SER	CA-C-N	-5.04	114.97	122.74
1	E	401	SER	C-N-CA	-5.04	114.97	122.74
1	L	439	GLN	CB-CA-C	-5.04	102.54	110.86
1	I	197	ILE	N-CA-C	-5.04	100.95	108.46
1	J	80	PHE	CA-C-N	5.04	124.73	119.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	80	PHE	C-N-CA	5.04	124.73	119.64
1	A	337	VAL	CB-CA-C	-5.04	103.68	111.08
1	B	291	PRO	N-CA-C	5.04	120.53	113.53
1	F	241	GLY	N-CA-C	5.03	121.12	112.51
1	M	84	ALA	N-CA-C	-5.03	100.08	110.80
2	V	760	ARG	N-CA-C	5.03	125.08	111.00
1	E	62	ARG	N-CA-C	-5.03	101.77	109.76
1	H	294	ASN	N-CA-C	5.03	116.84	111.36
1	H	440	TYR	N-CA-C	5.03	119.26	113.18
1	H	363	GLU	N-CA-C	5.02	117.56	107.41
1	M	71	TYR	N-CA-C	-5.02	102.26	109.24
1	E	400	LYS	N-CA-C	-5.02	105.89	111.36
1	D	87	GLY	N-CA-C	-5.02	101.28	113.18
1	L	65	GLU	N-CA-C	-5.02	100.11	110.80
1	E	36	GLU	N-CA-C	5.02	116.94	108.96
1	L	351	LEU	N-CA-C	-5.02	104.90	111.02
1	B	354	GLY	N-CA-C	-5.01	106.68	112.50
1	D	428	PHE	N-CA-C	-5.01	105.29	111.40
1	I	18	VAL	N-CA-C	-5.01	101.27	108.48
2	2	753	ALA	N-CA-C	-5.01	107.17	113.28
1	D	359	LYS	N-CA-C	5.00	117.84	111.69
1	K	257	ALA	N-CA-C	5.00	118.22	112.57
1	G	403	GLU	N-CA-C	5.00	119.14	113.19
1	N	354	GLY	N-CA-C	-5.00	101.33	113.18

There are no chirality outliers.

All (7) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	201	TYR	Sidechain
1	A	296	TYR	Sidechain
1	A	4	TYR	Sidechain
1	B	303	TYR	Sidechain
1	D	296	TYR	Sidechain
1	F	4	TYR	Sidechain
1	J	97	TYR	Sidechain

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	3535	0	3466	478	0
1	B	3535	0	3466	509	0
1	C	3535	0	3466	503	0
1	D	3563	0	3493	551	0
1	E	3535	0	3466	590	0
1	F	3535	0	3466	537	0
1	G	3535	0	3466	557	0
1	H	3535	0	3466	503	0
1	I	3535	0	3466	471	0
1	J	3535	0	3466	470	0
1	K	3535	0	3466	497	0
1	L	3535	0	3466	546	0
1	M	3535	0	3466	519	0
1	N	3535	0	3466	549	0
2	1	132	0	130	52	0
2	2	133	0	130	53	0
2	O	133	0	130	45	0
2	P	133	0	130	47	0
2	Q	133	0	130	55	0
2	R	133	0	130	38	0
2	S	133	0	130	59	0
2	T	133	0	130	55	0
2	U	133	0	130	48	0
2	V	133	0	130	50	0
2	W	133	0	130	77	0
2	X	133	0	130	45	0
2	Y	133	0	130	63	0
2	Z	133	0	130	65	0
3	A	9	0	7	5	0
3	B	9	0	7	6	0
3	C	10	0	7	3	0
3	D	9	0	7	3	0
3	E	9	0	7	2	0
3	F	9	0	7	5	0
3	G	9	0	7	2	0
3	H	9	0	7	2	0
3	I	9	0	7	2	0
3	J	9	0	7	3	0
3	K	9	0	7	0	0
3	L	10	0	7	4	0
3	M	10	0	7	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	N	9	0	7	1	0
4	A	4	0	0	0	0
4	B	3	0	0	0	0
4	C	7	0	0	0	0
4	D	8	0	0	0	0
4	E	2	0	0	0	0
4	F	3	0	0	0	0
4	G	1	0	0	0	0
4	H	3	0	0	0	0
4	I	2	0	0	0	0
4	J	3	0	0	0	0
4	K	3	0	0	0	0
4	L	3	0	0	0	0
4	M	3	0	0	0	0
4	N	2	0	0	0	0
All	All	51555	0	50469	7331	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 72.

All (7331) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:163:ASP:HA	1:A:170:ARG:NH2	1.36	1.38
2:W:758:LYS:HD2	2:W:758:LYS:O	1.23	1.26
1:C:113:LYS:HA	1:C:116:LEU:HD12	1.22	1.19
1:A:163:ASP:CA	1:A:170:ARG:HH22	1.56	1.18
1:M:329:SER:O	1:M:331:ARG:HD3	1.42	1.15
1:B:427:MET:HE1	2:W:759:ASN:HB3	1.28	1.15
1:D:113:LYS:HA	1:D:116:LEU:HD12	1.24	1.15
1:J:239:VAL:HA	2:2:757:TYR:OH	1.45	1.14
1:M:310:ALA:HB1	1:M:368:ILE:HG13	1.18	1.14
2:1:751:GLN:HB3	2:1:755:PHE:HE1	1.11	1.14
1:B:85:GLU:O	1:B:86:LYS:HB2	1.39	1.14
1:F:127:PHE:HE2	1:F:351:LEU:HB2	1.09	1.14
1:G:372:ILE:H	1:G:372:ILE:HD13	0.99	1.14
1:M:427:MET:HE1	2:T:759:ASN:HB3	1.23	1.12
1:C:150:LEU:HD22	1:C:193:GLY:HA3	1.32	1.12
1:M:164:LEU:O	1:M:168:CYS:HB2	1.47	1.12
1:M:414:PHE:CZ	1:M:418:ILE:HD11	1.84	1.12
1:C:161:PRO:HD2	1:C:166:GLU:HG2	1.32	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:37:ILE:HD12	1:J:41:GLN:HB2	1.31	1.12
1:B:60:PHE:CD2	2:W:758:LYS:HG2	1.85	1.11
1:E:323:PRO:HB3	1:E:331:ARG:NH1	1.63	1.11
1:D:60:PHE:HB3	2:Y:758:LYS:HG3	1.27	1.11
1:K:13:VAL:HG13	1:K:18:VAL:HB	1.17	1.10
1:N:98:ASN:HB2	1:N:102:THR:HB	1.29	1.10
1:G:24:GLN:HG3	1:G:32:ILE:HD11	1.33	1.10
1:J:54:GLY:HA3	1:J:68:MET:HE3	1.29	1.10
1:B:5:THR:O	1:B:8:ASP:HB2	1.50	1.09
1:M:44:LYS:HG3	1:M:49:LYS:HB2	1.33	1.09
1:F:328:ILE:H	1:F:328:ILE:HD13	1.13	1.09
1:A:82:TRP:HE1	1:A:221:ILE:CD1	1.67	1.08
1:G:84:ALA:HB2	1:G:88:LYS:HE3	1.12	1.07
1:J:63:ILE:HG22	1:J:64:GLU:HG2	1.29	1.07
2:U:746:LYS:N	2:U:749:GLU:HB2	1.68	1.07
1:A:189:GLU:HG3	1:A:190:VAL:H	1.18	1.07
1:G:84:ALA:CB	1:G:88:LYS:HE3	1.83	1.07
1:A:163:ASP:HB3	1:G:83:THR:HG22	1.37	1.06
1:B:302:GLY:O	2:Z:753:ALA:HB2	1.54	1.06
1:I:112:LEU:HD22	1:I:116:LEU:HD11	1.11	1.06
1:K:131:PRO:HB2	1:K:199:PHE:HE1	1.17	1.06
2:P:748:LEU:O	2:P:752:ASN:HB2	1.53	1.06
1:H:127:PHE:CE2	1:H:351:LEU:HB2	1.91	1.06
1:M:427:MET:HE1	2:T:759:ASN:CB	1.84	1.05
1:E:140:LEU:HD12	1:E:226:GLY:C	1.82	1.05
1:E:208:CYS:HA	1:E:211:ILE:HG12	1.39	1.05
1:A:82:TRP:HE1	1:A:221:ILE:HD11	1.22	1.05
1:A:392:LEU:O	1:A:396:LEU:HG	1.54	1.05
1:L:163:ASP:O	1:L:167:ASN:HB2	1.54	1.05
1:G:239:VAL:HG12	2:T:757:TYR:HE2	1.17	1.05
1:A:163:ASP:CA	1:A:170:ARG:NH2	2.17	1.04
1:B:304:GLU:OE2	3:B:501:GLN:HG2	1.57	1.04
1:M:85:GLU:HG3	1:M:85:GLU:O	1.57	1.04
1:E:13:VAL:HG13	1:E:18:VAL:HB	1.32	1.04
1:A:161:PRO:O	1:A:167:ASN:ND2	1.91	1.04
1:D:38:PRO:HG2	1:H:183:ILE:HD13	1.40	1.04
1:F:127:PHE:CE2	1:F:351:LEU:HB2	1.93	1.03
1:H:357:GLY:HA2	1:H:362:LEU:HD13	1.40	1.03
1:A:286:THR:HG21	1:A:389:PRO:HG2	1.39	1.03
1:D:239:VAL:HA	2:X:757:TYR:OH	1.59	1.02
1:G:297:LYS:HE3	1:I:436:GLU:OE2	1.60	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:370:ARG:C	1:N:371:ASN:HD22	1.66	1.02
1:G:239:VAL:HG12	2:T:757:TYR:CE2	1.94	1.02
2:S:749:GLU:O	2:S:752:ASN:HB3	1.58	1.02
1:L:128:ASN:HA	1:L:202:ALA:O	1.60	1.02
1:A:140:LEU:HD12	1:A:226:GLY:C	1.85	1.02
1:G:5:THR:HG22	1:G:8:ASP:OD2	1.58	1.01
1:H:24:GLN:HG2	1:H:32:ILE:HD11	1.42	1.01
1:M:368:ILE:HD12	1:M:385:ILE:HD11	1.39	1.01
1:A:163:ASP:HB3	1:G:83:THR:CG2	1.91	1.01
1:B:9:ILE:HD11	1:B:74:LEU:HD12	1.43	1.01
1:B:127:PHE:CE2	1:B:351:LEU:HB2	1.96	1.00
1:A:311:TRP:CZ2	1:A:367:PRO:HD3	1.97	1.00
1:E:310:ALA:HB1	1:E:368:ILE:HD11	1.41	1.00
1:D:404:VAL:O	1:D:408:ALA:HB2	1.61	1.00
1:I:6:ARG:HG2	1:I:10:GLU:OE1	1.61	1.00
1:M:48:ASN:OD1	1:M:71:TYR:HA	1.61	1.00
1:M:373:TYR:CD2	2:U:746:LYS:HB3	1.97	0.99
1:E:323:PRO:HB3	1:E:331:ARG:HH11	1.21	0.99
1:E:378:GLU:O	1:E:382:GLU:HG3	1.63	0.99
1:K:127:PHE:CZ	1:K:248:LEU:HD22	1.98	0.99
1:E:240:ASN:ND2	1:E:303:TYR:HB3	1.75	0.99
1:M:373:TYR:HD2	2:U:746:LYS:HB3	1.25	0.99
1:B:129:LEU:HG	1:B:347:LEU:HD21	1.43	0.98
1:F:399:PHE:HZ	1:F:409:LEU:HD11	1.25	0.98
1:B:60:PHE:CD2	2:W:758:LYS:CG	2.46	0.98
1:I:357:GLY:HA2	1:I:362:LEU:HD22	1.45	0.98
1:K:302:GLY:C	2:1:750:GLY:HA3	1.89	0.98
1:F:319:LEU:HD12	1:F:388:LEU:HD11	1.42	0.98
1:C:54:GLY:HA3	1:C:68:MET:HE2	1.46	0.98
1:G:199:PHE:H	1:G:199:PHE:HD1	1.02	0.98
1:I:131:PRO:HG2	1:I:211:ILE:HD11	1.46	0.98
1:N:63:ILE:HD11	2:Z:751:GLN:HE21	1.29	0.97
1:E:323:PRO:HD2	1:E:331:ARG:O	1.63	0.97
1:G:176:LEU:O	1:G:181:PHE:HB2	1.63	0.97
1:G:19:LYS:HA	1:G:39:VAL:HG12	1.46	0.97
1:N:181:PHE:HB3	1:N:183:ILE:CD1	1.94	0.97
1:A:402:ASN:OD1	1:A:404:VAL:HG12	1.63	0.97
1:F:162:THR:HG23	1:F:170:ARG:HH22	1.24	0.97
1:L:232:MET:HE2	1:M:440:TYR:HB2	1.46	0.97
1:N:295:SER:OG	1:N:338:ASP:OD1	1.80	0.97
1:B:60:PHE:HD2	2:W:758:LYS:HG2	1.30	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:372:ILE:HD12	1:N:373:TYR:N	1.80	0.96
1:C:372:ILE:HA	1:C:375:MET:SD	2.05	0.96
1:H:164:LEU:CD2	1:H:165:GLY:H	1.78	0.96
1:G:3:LYS:HE3	1:G:4:TYR:CE1	2.00	0.96
1:I:418:ILE:HG22	1:I:422:GLU:CD	1.90	0.96
1:L:232:MET:HE1	1:M:437:ARG:HA	1.46	0.96
1:M:19:LYS:HG3	1:M:86:LYS:O	1.65	0.96
2:W:748:LEU:O	2:W:752:ASN:HB2	1.64	0.96
1:G:357:GLY:HA2	1:G:362:LEU:HD22	1.45	0.96
2:O:748:LEU:O	2:O:752:ASN:HB2	1.65	0.96
1:M:28:ILE:HD11	1:M:417:PHE:HB2	1.43	0.96
1:M:139:LYS:HD2	1:M:149:GLU:HG2	1.44	0.96
2:1:751:GLN:HB3	2:1:755:PHE:CE1	2.01	0.96
1:D:275:ILE:O	1:D:279:VAL:HG23	1.65	0.96
1:E:329:SER:O	1:E:331:ARG:HD2	1.66	0.96
1:D:38:PRO:HG2	1:H:183:ILE:CD1	1.95	0.96
2:Q:751:GLN:HG3	2:Q:755:PHE:HE1	1.31	0.95
2:V:748:LEU:O	2:V:752:ASN:HB2	1.66	0.95
2:W:758:LYS:HD2	2:W:758:LYS:C	1.82	0.95
1:K:97:TYR:CE2	1:K:103:PRO:HB3	2.02	0.95
1:N:402:ASN:OD1	1:N:404:VAL:HG13	1.65	0.95
1:E:357:GLY:HA2	1:E:362:LEU:HD13	1.47	0.95
1:A:129:LEU:HD22	1:A:131:PRO:HG3	1.48	0.95
1:N:45:ALA:HA	1:N:50:VAL:HG23	1.46	0.95
1:G:323:PRO:HB2	1:G:331:ARG:HH22	1.32	0.95
1:I:127:PHE:CE2	1:I:351:LEU:HB2	2.01	0.95
1:B:275:ILE:O	1:B:279:VAL:HG23	1.65	0.95
1:H:371:ASN:OD1	1:H:373:TYR:HB2	1.67	0.95
1:N:277:GLY:O	1:N:353:ALA:HB1	1.67	0.95
1:C:60:PHE:HB3	2:Q:758:LYS:HG3	1.47	0.94
1:L:372:ILE:HD13	1:L:372:ILE:H	1.32	0.94
1:N:62:ARG:HG3	2:Z:754:HIS:CE1	2.03	0.94
1:A:325:SER:CB	1:G:51:MET:HE1	1.98	0.94
2:Z:753:ALA:O	2:Z:757:TYR:CE1	2.20	0.94
2:R:751:GLN:HA	2:R:751:GLN:HE21	1.28	0.94
1:C:377:LYS:HA	1:C:380:ARG:CZ	1.98	0.94
1:D:245:HIS:CE1	1:D:335:ARG:HD2	2.03	0.94
1:A:325:SER:HB3	1:G:51:MET:HE1	1.49	0.94
1:I:404:VAL:O	1:I:407:LYS:HB2	1.64	0.94
1:L:301:PRO:HB2	2:S:746:LYS:HB3	1.50	0.94
1:J:54:GLY:HA3	1:J:68:MET:CE	1.97	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:13:VAL:HG13	1:N:18:VAL:HB	1.47	0.94
1:A:129:LEU:HD12	1:A:347:LEU:HD21	1.49	0.94
1:H:177:GLU:OE1	1:H:183:ILE:HD11	1.68	0.94
1:K:285:PHE:HB3	1:K:405:MET:SD	2.08	0.94
1:N:96:ILE:HG21	1:N:104:PHE:HD2	1.31	0.94
1:A:129:LEU:CD1	1:A:347:LEU:HD21	1.98	0.94
1:J:60:PHE:HB3	2:U:758:LYS:HG3	1.50	0.94
1:M:63:ILE:HD12	2:T:747:MET:HE3	1.50	0.94
1:L:162:THR:O	1:L:164:LEU:N	1.99	0.94
2:O:753:ALA:HA	2:O:756:ARG:CD	1.96	0.93
1:D:107:ASP:HB3	1:D:110:ASN:HB2	1.48	0.93
1:G:83:THR:HG21	1:G:89:VAL:HB	1.49	0.93
2:S:751:GLN:O	2:S:755:PHE:HD1	1.50	0.93
1:J:244:MET:HB2	1:J:339:PRO:HD3	1.46	0.93
1:A:265:LEU:O	1:A:326:ARG:NH1	2.00	0.93
1:G:237:PHE:HB2	1:I:432:VAL:HG23	1.49	0.93
1:H:253:ASN:HB2	1:H:255:VAL:HG23	1.47	0.93
1:M:285:PHE:HB3	1:M:405:MET:SD	2.09	0.93
1:A:241:GLY:O	3:A:501:GLN:N	2.01	0.93
1:E:323:PRO:CB	1:E:331:ARG:HH11	1.81	0.93
1:A:162:THR:HG22	1:A:163:ASP:N	1.80	0.93
1:F:162:THR:HG23	1:F:170:ARG:NH2	1.83	0.93
1:G:84:ALA:HA	1:G:87:GLY:O	1.67	0.93
1:G:418:ILE:O	1:G:422:GLU:HG3	1.68	0.93
1:J:61:VAL:HG11	1:J:420:ALA:HB2	1.50	0.93
1:D:304:GLU:O	1:D:317:SER:HB2	1.69	0.93
1:F:13:VAL:HG13	1:F:18:VAL:HB	1.49	0.93
1:K:309:VAL:HG23	1:K:386:VAL:O	1.69	0.93
1:N:9:ILE:HG13	1:N:74:LEU:HD12	1.50	0.92
2:T:748:LEU:O	2:T:752:ASN:HB2	1.66	0.92
2:V:751:GLN:O	2:V:755:PHE:HD2	1.51	0.92
1:A:85:GLU:HA	1:A:85:GLU:OE1	1.68	0.92
1:B:399:PHE:HZ	1:B:409:LEU:HD12	1.33	0.92
1:E:236:LEU:HB2	1:E:239:VAL:HG11	1.52	0.92
1:N:239:VAL:HA	2:V:757:TYR:OH	1.68	0.92
1:D:86:LYS:HB2	1:D:86:LYS:HZ3	1.34	0.92
2:X:752:ASN:HA	2:X:755:PHE:CD2	2.04	0.92
1:G:57:ILE:HD11	1:G:96:ILE:HD13	1.51	0.92
1:G:372:ILE:H	1:G:372:ILE:CD1	1.71	0.92
1:C:164:LEU:O	1:C:168:CYS:HB2	1.69	0.91
1:E:48:ASN:HB3	1:E:71:TYR:CE1	2.04	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:163:ASP:O	1:L:167:ASN:N	2.04	0.91
1:B:322:ILE:HD11	1:B:332:VAL:HG12	1.52	0.91
1:E:281:HIS:CE1	1:E:404:VAL:HG11	2.06	0.91
1:E:368:ILE:HD12	1:E:368:ILE:H	1.32	0.91
1:G:372:ILE:HD13	1:G:372:ILE:N	1.85	0.91
2:U:747:MET:O	2:U:751:GLN:HB2	1.70	0.91
1:F:129:LEU:HD12	1:F:347:LEU:HD11	1.52	0.91
1:G:320:ILE:HG22	1:G:321:ARG:H	1.34	0.91
1:C:300:VAL:HG22	1:C:301:PRO:HD2	1.52	0.91
1:M:163:ASP:HA	1:M:166:GLU:HB3	1.53	0.91
1:N:321:ARG:O	1:N:323:PRO:HD3	1.70	0.91
2:W:758:LYS:O	2:W:758:LYS:CD	2.17	0.91
1:A:253:ASN:O	1:A:255:VAL:HG23	1.70	0.91
1:A:353:ALA:HB2	1:A:405:MET:HE1	1.51	0.91
1:D:329:SER:O	1:D:331:ARG:HG2	1.70	0.90
1:F:182:GLU:HB3	1:F:200:LYS:HD2	1.53	0.90
1:G:84:ALA:HB2	1:G:88:LYS:CE	2.00	0.90
1:N:267:LEU:O	1:N:268:SER:O	1.85	0.90
1:K:97:TYR:CD2	1:K:103:PRO:HA	2.06	0.90
1:C:157:PHE:O	1:E:33:LYS:HB3	1.70	0.90
1:K:131:PRO:HB2	1:K:199:PHE:CE1	2.07	0.90
1:B:275:ILE:HG12	1:B:332:VAL:HG11	1.53	0.90
1:K:44:LYS:HD2	1:K:50:VAL:HG22	1.53	0.90
1:L:54:GLY:HA3	1:L:68:MET:HE3	1.53	0.90
1:B:300:VAL:HG12	1:B:301:PRO:HD2	1.52	0.90
1:A:316:ARG:HD2	2:P:747:MET:HG3	1.51	0.90
1:C:240:ASN:OD1	1:C:303:TYR:HB3	1.71	0.90
1:E:127:PHE:CE2	1:E:351:LEU:HB2	2.06	0.90
1:F:313:ALA:O	1:F:314:GLN:HB2	1.71	0.90
1:I:112:LEU:HD22	1:I:116:LEU:CD1	2.00	0.90
1:M:9:ILE:HD11	1:M:74:LEU:HD12	1.52	0.90
1:M:98:ASN:ND2	1:M:104:PHE:HA	1.85	0.90
1:G:170:ARG:NH1	1:M:22:ARG:HH21	1.69	0.90
1:J:62:ARG:HB2	2:U:754:HIS:HE1	1.35	0.90
1:A:145:GLU:OE1	1:A:146:PRO:HD2	1.70	0.90
1:N:96:ILE:HG22	1:N:104:PHE:HB2	1.54	0.90
1:F:138:PHE:O	1:F:227:LEU:HB3	1.72	0.89
1:F:328:ILE:HD13	1:F:328:ILE:N	1.86	0.89
1:M:129:LEU:O	1:M:201:TYR:HA	1.72	0.89
1:E:406:VAL:HG22	1:E:414:PHE:CE1	2.07	0.89
1:L:232:MET:CE	1:M:440:TYR:HB2	2.03	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:163:ASP:O	1:E:167:ASN:HB2	1.73	0.89
1:G:323:PRO:CB	1:G:331:ARG:HH22	1.85	0.89
1:H:68:MET:HE2	1:H:98:ASN:HA	1.54	0.89
1:H:128:ASN:O	1:H:248:LEU:HA	1.72	0.89
1:L:58:GLU:O	1:L:61:VAL:HG22	1.71	0.89
1:B:96:ILE:HD12	1:B:107:ASP:HB2	1.53	0.89
1:B:160:ALA:O	1:B:166:GLU:HG2	1.71	0.89
1:C:418:ILE:O	1:C:422:GLU:HG3	1.71	0.89
1:K:208:CYS:HA	1:K:211:ILE:HD12	1.54	0.89
1:L:183:ILE:HD13	1:L:183:ILE:H	1.36	0.89
1:M:378:GLU:H	1:M:378:GLU:CD	1.80	0.89
1:B:85:GLU:O	1:B:86:LYS:CB	2.20	0.89
1:C:219:LYS:HA	1:C:229:ALA:HB3	1.53	0.89
1:N:45:ALA:HA	1:N:50:VAL:CG2	2.03	0.89
2:X:748:LEU:O	2:X:752:ASN:HB2	1.70	0.89
1:A:52:PHE:CE1	1:A:70:LEU:HD13	2.06	0.89
1:C:403:GLU:OE2	1:C:407:LYS:HE3	1.73	0.89
1:G:63:ILE:HG22	1:G:64:GLU:HG3	1.53	0.89
1:H:6:ARG:HG2	1:H:10:GLU:OE1	1.72	0.89
1:I:113:LYS:HA	1:I:116:LEU:HD12	1.54	0.89
1:A:145:GLU:OE1	1:A:145:GLU:HA	1.72	0.89
1:E:293:VAL:HG11	1:E:428:PHE:CD2	2.07	0.89
1:E:308:TYR:HB2	1:E:372:ILE:CD1	2.02	0.89
1:H:77:PHE:O	1:H:78:VAL:HG23	1.72	0.89
1:H:86:LYS:HD2	1:J:174:LEU:HD23	1.51	0.89
1:H:183:ILE:H	1:H:183:ILE:HD12	1.36	0.89
1:N:5:THR:HG22	1:N:8:ASP:OD2	1.72	0.89
1:A:162:THR:CG2	1:A:163:ASP:H	1.85	0.89
1:A:206:ARG:HG2	1:A:206:ARG:HH11	1.37	0.89
1:N:239:VAL:HA	2:V:757:TYR:HH	1.37	0.89
1:A:399:PHE:HZ	1:A:409:LEU:HD12	1.36	0.89
1:G:383:ASN:HD22	1:G:383:ASN:N	1.69	0.89
1:E:12:LEU:O	1:E:16:GLU:HB2	1.72	0.89
1:C:243:GLY:CA	1:C:298:ARG:HH12	1.85	0.88
1:L:61:VAL:HG11	1:L:420:ALA:HB2	1.54	0.88
1:D:269:GLU:OE1	1:D:272:LYS:HE2	1.74	0.88
1:E:105:GLU:HG3	1:E:106:GLY:N	1.86	0.88
1:I:24:GLN:OE1	1:I:32:ILE:HD11	1.74	0.88
2:R:747:MET:O	2:R:751:GLN:N	2.05	0.88
1:F:328:ILE:H	1:F:328:ILE:CD1	1.85	0.88
1:G:302:GLY:HA3	2:T:750:GLY:CA	2.04	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:163:ASP:O	1:L:167:ASN:CB	2.21	0.88
1:N:28:ILE:HD11	1:N:417:PHE:HD1	1.39	0.88
2:Z:747:MET:O	2:Z:751:GLN:N	2.06	0.88
1:B:285:PHE:HB3	1:B:405:MET:SD	2.14	0.88
1:F:106:GLY:O	1:F:413:LEU:HD21	1.74	0.88
1:J:160:ALA:HB2	1:J:169:ARG:HH22	1.37	0.88
1:K:260:ASP:HB2	1:K:268:SER:HB2	1.56	0.88
1:M:52:PHE:CE1	1:M:70:LEU:HD13	2.08	0.88
1:H:403:GLU:O	1:H:407:LYS:HG2	1.72	0.88
1:J:223:ARG:HH11	1:J:223:ARG:HG3	1.36	0.88
1:N:140:LEU:HD12	1:N:227:LEU:N	1.89	0.88
1:F:258:PHE:HB3	1:F:271:ALA:HB2	1.55	0.88
1:K:163:ASP:OD2	1:K:167:ASN:HB2	1.74	0.88
1:M:114:ARG:HA	1:M:117:LYS:HE3	1.56	0.88
1:N:309:VAL:HG23	1:N:386:VAL:O	1.74	0.88
1:G:3:LYS:HE3	1:G:4:TYR:HE1	1.38	0.87
1:I:189:GLU:OE1	3:I:501:GLN:OE1	1.92	0.87
1:E:441:MET:HE3	1:F:230:THR:HG21	1.57	0.87
1:K:58:GLU:OE1	1:K:62:ARG:HA	1.73	0.87
1:B:317:SER:HB3	1:B:373:TYR:CE1	2.08	0.87
1:D:150:LEU:HD22	1:D:193:GLY:HA3	1.56	0.87
1:I:368:ILE:HD11	1:I:385:ILE:HD11	1.57	0.87
1:J:160:ALA:CB	1:J:169:ARG:HH22	1.86	0.87
1:A:160:ALA:CB	1:A:169:ARG:HH22	1.86	0.87
1:E:239:VAL:HA	2:W:757:TYR:OH	1.73	0.87
1:D:86:LYS:HB2	1:D:86:LYS:NZ	1.90	0.87
1:F:300:VAL:HG12	1:F:301:PRO:HD2	1.57	0.87
1:A:275:ILE:O	1:A:279:VAL:HG23	1.74	0.86
1:N:373:TYR:CD2	2:V:746:LYS:HB2	2.09	0.86
2:Z:749:GLU:HA	2:Z:752:ASN:HB2	1.55	0.86
1:H:68:MET:HG2	1:H:96:ILE:HG22	1.54	0.86
1:K:91:ARG:NH2	1:K:93:ILE:HD11	1.91	0.86
1:L:331:ARG:HG3	1:L:331:ARG:HH21	1.40	0.86
1:B:162:THR:HG23	1:B:170:ARG:HH12	1.39	0.86
1:F:140:LEU:HD12	1:F:226:GLY:C	1.99	0.86
1:G:68:MET:HG2	1:G:96:ILE:HG22	1.56	0.86
1:H:351:LEU:O	1:H:351:LEU:HG	1.75	0.86
1:A:163:ASP:HA	1:A:170:ARG:HH22	0.96	0.86
1:A:204:ALA:CB	1:A:347:LEU:HD12	2.05	0.86
1:I:4:TYR:HB3	1:I:9:ILE:HD11	1.55	0.86
1:L:207:SER:O	1:L:211:ILE:HD12	1.76	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:748:LEU:O	2:Q:752:ASN:HB2	1.73	0.86
2:S:751:GLN:HB3	2:S:755:PHE:HE1	1.39	0.86
1:H:112:LEU:HD22	1:H:116:LEU:CD1	2.05	0.86
1:M:164:LEU:HB3	1:M:227:LEU:HD11	1.56	0.86
1:F:406:VAL:HG13	1:F:414:PHE:CD1	2.10	0.86
1:G:164:LEU:O	1:G:168:CYS:HB2	1.75	0.86
1:N:259:PHE:CZ	1:N:261:GLU:HG3	2.10	0.86
1:B:9:ILE:HG22	1:B:77:PHE:CD2	2.09	0.86
1:F:127:PHE:HD2	1:F:351:LEU:HD22	1.39	0.86
1:K:302:GLY:CA	2:1:750:GLY:HA3	2.05	0.86
1:N:181:PHE:HB3	1:N:183:ILE:HD11	1.56	0.86
1:B:310:ALA:HB1	1:B:368:ILE:HD13	1.58	0.86
1:H:289:THR:HG22	1:H:346:ALA:HB1	1.56	0.86
1:N:319:LEU:HD23	1:N:319:LEU:O	1.75	0.86
1:A:127:PHE:CD2	1:A:351:LEU:HD22	2.10	0.86
1:B:172:ILE:HD12	1:B:218:VAL:HA	1.55	0.86
1:B:34:ASN:ND2	1:E:159:LEU:HG	1.91	0.85
1:E:58:GLU:O	1:E:61:VAL:HG22	1.76	0.85
2:T:750:GLY:HA2	2:T:753:ALA:HB3	1.57	0.85
2:X:747:MET:O	2:X:751:GLN:N	2.09	0.85
1:A:310:ALA:HB1	1:A:368:ILE:HD13	1.58	0.85
1:I:351:LEU:HG	1:I:351:LEU:O	1.75	0.85
1:C:193:GLY:O	1:C:195:HIS:CD2	2.29	0.85
1:K:373:TYR:CD1	2:1:747:MET:HG3	2.12	0.85
1:D:52:PHE:CE1	1:D:70:LEU:HD11	2.12	0.85
1:J:275:ILE:O	1:J:279:VAL:HG23	1.74	0.85
1:C:9:ILE:HG13	1:C:74:LEU:HD12	1.57	0.85
1:D:164:LEU:HD22	1:F:223:ARG:NH1	1.92	0.85
1:N:253:ASN:O	1:N:255:VAL:HG23	1.76	0.85
2:U:748:LEU:O	2:U:752:ASN:HB2	1.76	0.85
1:B:427:MET:CE	2:W:759:ASN:HB3	2.05	0.85
1:F:429:ARG:HB2	1:F:429:ARG:HH11	1.41	0.85
1:J:271:ALA:O	1:J:275:ILE:HG12	1.75	0.85
2:1:747:MET:O	2:1:751:GLN:HB2	1.76	0.85
2:1:749:GLU:O	2:1:752:ASN:HB3	1.77	0.85
1:E:429:ARG:HH22	1:F:300:VAL:HG22	1.42	0.85
1:D:400:LYS:HG2	1:D:418:ILE:HD11	1.59	0.85
1:K:13:VAL:HG13	1:K:18:VAL:CB	2.05	0.85
2:Y:748:LEU:O	2:Y:752:ASN:HB2	1.77	0.85
1:E:427:MET:SD	2:R:759:ASN:ND2	2.50	0.84
2:T:747:MET:O	2:T:751:GLN:N	2.09	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:163:ASP:HA	1:H:167:ASN:HB2	1.59	0.84
1:K:258:PHE:HZ	1:K:274:PHE:CD1	1.95	0.84
1:D:439:GLN:NE2	2:W:759:ASN:O	2.10	0.84
1:E:48:ASN:HB3	1:E:71:TYR:CD1	2.11	0.84
1:K:323:PRO:HG2	1:K:331:ARG:NH2	1.92	0.84
1:L:124:PHE:HB3	1:L:251:PHE:O	1.77	0.84
1:A:23:LEU:HD22	1:A:94:CYS:SG	2.16	0.84
1:B:109:ARG:HD3	1:B:344:TYR:HE2	1.42	0.84
1:M:208:CYS:SG	1:M:347:LEU:HD23	2.17	0.84
1:F:360:ASN:HB2	1:F:362:LEU:HD11	1.57	0.84
1:M:9:ILE:CD1	1:M:74:LEU:HD12	2.08	0.84
1:A:169:ARG:HH21	1:A:195:HIS:HD2	1.25	0.84
1:G:309:VAL:HG22	1:G:319:LEU:HD22	1.59	0.84
1:A:316:ARG:CD	2:P:747:MET:HG3	2.06	0.84
1:E:418:ILE:O	1:E:422:GLU:HG3	1.77	0.84
1:H:164:LEU:HD23	1:H:165:GLY:H	1.42	0.84
1:H:220:THR:HG21	1:J:162:THR:HG21	1.58	0.84
1:K:134:GLU:O	1:K:242:SER:HB3	1.77	0.84
1:A:423:ILE:O	1:A:427:MET:HG3	1.78	0.84
1:M:231:PHE:HB3	1:M:339:PRO:HB2	1.60	0.84
1:A:204:ALA:HB1	1:A:347:LEU:HD12	1.58	0.84
1:F:42:LEU:O	1:F:45:ALA:HB3	1.78	0.84
1:G:129:LEU:CD1	1:G:347:LEU:HD21	2.07	0.84
1:H:83:THR:HG21	1:H:89:VAL:HG23	1.60	0.84
1:E:241:GLY:O	3:E:501:GLN:N	2.11	0.84
1:G:162:THR:HG22	1:G:164:LEU:H	1.42	0.84
1:J:317:SER:HG	1:J:373:TYR:HE1	0.85	0.84
1:B:140:LEU:HD12	1:B:226:GLY:C	2.03	0.83
1:B:191:ALA:HB3	1:B:194:GLN:HE21	1.41	0.83
1:G:302:GLY:CA	2:T:750:GLY:HA3	2.08	0.83
1:I:197:ILE:HD12	1:I:214:PHE:HZ	1.43	0.83
1:D:164:LEU:HD22	1:F:223:ARG:HH11	1.42	0.83
1:G:20:TYR:OH	1:G:36:GLU:HG3	1.77	0.83
1:I:231:PHE:HB3	1:I:339:PRO:HB2	1.60	0.83
1:A:150:LEU:HD13	1:A:192:PRO:O	1.77	0.83
1:D:169:ARG:HH21	1:D:169:ARG:HG3	1.43	0.83
1:D:223:ARG:CG	1:D:223:ARG:HH11	1.91	0.83
1:I:159:LEU:O	1:I:160:ALA:O	1.96	0.83
1:K:243:GLY:HA3	1:K:298:ARG:NH1	1.93	0.83
1:L:191:ALA:HB2	2:S:757:TYR:HE2	1.43	0.83
1:M:91:ARG:NH2	1:M:93:ILE:HD11	1.92	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:32:ILE:HG12	1:M:159:LEU:HD12	1.59	0.83
1:K:212:GLN:HE21	1:K:343:PRO:HG2	1.43	0.83
1:L:182:GLU:HB3	1:L:200:LYS:HD3	1.60	0.83
1:N:317:SER:HB3	1:N:373:TYR:CZ	2.14	0.83
1:A:162:THR:HG22	1:A:163:ASP:H	1.38	0.83
1:E:323:PRO:CB	1:E:331:ARG:NH1	2.38	0.83
1:G:273:HIS:HB3	1:G:357:GLY:O	1.78	0.83
1:L:271:ALA:O	1:L:275:ILE:HD13	1.76	0.83
1:N:275:ILE:O	1:N:279:VAL:HG23	1.77	0.83
1:B:427:MET:SD	2:W:759:ASN:CG	2.62	0.83
1:C:316:ARG:CD	2:R:747:MET:HG2	2.07	0.83
1:G:13:VAL:HG13	1:G:18:VAL:HB	1.60	0.83
1:L:112:LEU:HD13	1:L:205:VAL:HG22	1.60	0.83
1:L:261:GLU:HA	1:L:266:GLN:HG2	1.60	0.83
1:L:287:ALA:HB2	1:L:395:ALA:HB1	1.59	0.83
2:Z:751:GLN:O	2:Z:755:PHE:HD2	1.59	0.83
1:B:197:ILE:HD13	1:B:214:PHE:HZ	1.44	0.83
1:E:308:TYR:HB2	1:E:372:ILE:HD12	1.61	0.83
1:F:308:TYR:O	1:F:319:LEU:HB2	1.77	0.83
1:B:9:ILE:HD11	1:B:74:LEU:CD1	2.07	0.83
1:D:52:PHE:HE2	1:D:54:GLY:HA2	1.43	0.83
1:G:22:ARG:HB3	1:G:34:ASN:HD22	1.42	0.83
1:I:323:PRO:O	1:I:326:ARG:NH2	2.11	0.83
1:M:326:ARG:HD3	1:M:330:THR:HG23	1.59	0.83
1:M:127:PHE:CD2	1:M:351:LEU:HD22	2.14	0.83
1:M:214:PHE:O	1:M:218:VAL:HG23	1.79	0.83
1:N:52:PHE:CE1	1:N:70:LEU:HD13	2.13	0.83
1:I:234:LYS:HE3	1:I:297:LYS:O	1.78	0.83
1:E:60:PHE:HD2	2:R:758:LYS:HG3	1.43	0.82
1:I:54:GLY:HA3	1:I:68:MET:HG3	1.61	0.82
1:L:275:ILE:O	1:L:279:VAL:HG23	1.79	0.82
1:N:119:MET:HE1	1:N:127:PHE:HB2	1.60	0.82
1:N:167:ASN:OD1	1:N:170:ARG:HD3	1.79	0.82
1:B:127:PHE:CD2	1:B:351:LEU:HD22	2.14	0.82
1:C:161:PRO:CD	1:C:166:GLU:HG2	2.09	0.82
1:F:406:VAL:HG22	1:F:414:PHE:CE1	2.14	0.82
1:G:281:HIS:CD2	1:G:353:ALA:HB1	2.14	0.82
1:F:311:TRP:HE1	1:F:365:PRO:HD2	1.44	0.82
1:I:302:GLY:O	2:Q:750:GLY:HA2	1.80	0.82
1:K:443:GLN:HB3	1:K:444:TYR:CD2	2.14	0.82
1:L:300:VAL:HG12	1:L:301:PRO:HD2	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:160:ALA:N	1:C:161:PRO:HD3	1.93	0.82
1:D:127:PHE:CE2	1:D:248:LEU:HD22	2.15	0.82
1:D:139:LYS:HA	1:D:227:LEU:HD23	1.61	0.82
1:D:231:PHE:HB3	1:D:339:PRO:HB2	1.61	0.82
1:H:24:GLN:CG	1:H:32:ILE:HD11	2.09	0.82
1:L:35:VAL:CG1	1:L:70:LEU:HD21	2.09	0.82
1:N:35:VAL:HG11	1:N:70:LEU:CD2	2.10	0.82
1:A:141:ASP:OD2	1:A:143:LYS:N	2.12	0.82
1:D:140:LEU:HB2	1:D:226:GLY:O	1.79	0.82
1:L:20:TYR:C	1:L:21:ILE:HD12	2.05	0.82
1:L:69:TYR:HB3	1:L:71:TYR:HE1	1.44	0.82
1:L:368:ILE:HG21	1:L:372:ILE:CG2	2.10	0.82
1:A:127:PHE:CE2	1:A:351:LEU:HB2	2.14	0.82
2:S:753:ALA:O	2:S:756:ARG:HG2	1.79	0.82
1:J:266:GLN:HB3	1:J:326:ARG:HD2	1.60	0.82
1:N:429:ARG:HG2	1:N:430:THR:HG23	1.61	0.82
2:Z:749:GLU:O	2:Z:753:ALA:N	2.13	0.82
1:A:82:TRP:NE1	1:A:221:ILE:HD11	1.95	0.82
1:D:359:LYS:HB2	1:D:359:LYS:NZ	1.92	0.82
1:E:211:ILE:HG21	1:E:343:PRO:HG3	1.62	0.82
1:I:158:ASP:O	1:I:160:ALA:N	2.12	0.82
1:B:114:ARG:NH2	1:B:407:LYS:O	2.12	0.81
1:C:55:SER:O	1:C:62:ARG:HG2	1.80	0.81
1:D:68:MET:HG2	1:D:96:ILE:HG23	1.60	0.81
1:D:168:CYS:O	1:D:172:ILE:HD13	1.80	0.81
1:D:423:ILE:HD13	2:Y:755:PHE:CZ	2.15	0.81
1:F:418:ILE:O	1:F:422:GLU:HG3	1.80	0.81
1:I:311:TRP:HZ3	1:I:322:ILE:HD12	1.44	0.81
1:J:251:PHE:CD1	1:J:256:ASN:HA	2.14	0.81
1:L:9:ILE:HD13	1:L:9:ILE:H	1.45	0.81
1:L:79:ILE:HD13	1:L:90:ALA:HB2	1.62	0.81
1:B:62:ARG:HD3	2:W:754:HIS:NE2	1.95	0.81
1:B:402:ASN:O	1:B:406:VAL:HG23	1.78	0.81
1:C:176:LEU:O	1:C:181:PHE:HB2	1.80	0.81
1:C:402:ASN:OD1	1:C:404:VAL:HG12	1.78	0.81
1:E:316:ARG:HD2	1:E:371:ASN:HD21	1.45	0.81
1:F:48:ASN:HB3	1:F:71:TYR:CE1	2.16	0.81
1:H:240:ASN:CG	2:Y:757:TYR:OH	2.23	0.81
1:J:176:LEU:O	1:J:181:PHE:HB2	1.78	0.81
1:K:113:LYS:O	1:K:117:LYS:HG3	1.79	0.81
1:M:112:LEU:HD12	1:M:205:VAL:HG22	1.61	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:176:LEU:O	1:H:181:PHE:HB2	1.81	0.81
1:N:162:THR:O	1:N:166:GLU:HB3	1.81	0.81
2:Q:756:ARG:HG2	2:Q:756:ARG:HH11	1.46	0.81
1:A:285:PHE:HB3	1:A:405:MET:SD	2.20	0.81
1:E:234:LYS:O	1:E:234:LYS:HG3	1.78	0.81
1:A:232:MET:HE3	1:C:440:TYR:HB2	1.62	0.81
1:C:5:THR:O	1:C:8:ASP:HB2	1.81	0.81
1:F:142:GLU:CD	1:F:142:GLU:H	1.87	0.81
1:I:319:LEU:HD12	1:I:388:LEU:HD11	1.60	0.81
1:L:164:LEU:O	1:L:168:CYS:N	2.12	0.81
2:S:754:HIS:HA	2:S:757:TYR:CE1	2.16	0.81
1:H:62:ARG:HG3	2:2:754:HIS:CE1	2.15	0.81
1:L:84:ALA:HB2	1:L:88:LYS:NZ	1.95	0.81
1:L:291:PRO:HG3	1:L:341:ALA:HA	1.62	0.81
1:M:35:VAL:CG1	1:M:70:LEU:HD21	2.11	0.81
1:A:96:ILE:HD12	1:A:107:ASP:HB2	1.61	0.81
1:C:309:VAL:HG23	1:C:388:LEU:HD22	1.63	0.81
1:E:270:THR:O	1:E:358:ILE:HD11	1.81	0.81
1:G:199:PHE:HD1	1:G:199:PHE:N	1.79	0.81
1:M:13:VAL:HG13	1:M:18:VAL:HB	1.61	0.81
1:M:21:ILE:CD1	1:M:42:LEU:HD22	2.11	0.81
2:U:758:LYS:HE3	2:U:758:LYS:O	1.81	0.81
1:F:282:ALA:HA	1:F:285:PHE:CE2	2.16	0.80
1:H:182:GLU:O	1:H:199:PHE:HB2	1.81	0.80
1:L:129:LEU:CD2	1:L:131:PRO:HG3	2.11	0.80
1:M:238:GLY:O	1:M:239:VAL:HG23	1.80	0.80
1:N:172:ILE:O	1:N:176:LEU:HG	1.79	0.80
2:Z:753:ALA:O	2:Z:757:TYR:CD1	2.34	0.80
2:2:752:ASN:O	2:2:756:ARG:HD2	1.81	0.80
1:D:359:LYS:HB2	1:D:359:LYS:HZ2	1.45	0.80
1:F:127:PHE:CD2	1:F:351:LEU:HD22	2.15	0.80
1:I:400:LYS:HD3	1:I:418:ILE:HG21	1.62	0.80
1:K:189:GLU:HB2	1:K:194:GLN:HB3	1.62	0.80
1:B:207:SER:O	1:B:211:ILE:HG12	1.80	0.80
1:E:321:ARG:O	1:E:323:PRO:HD3	1.79	0.80
1:C:212:GLN:OE1	1:C:343:PRO:HG2	1.80	0.80
1:K:156:TYR:CD2	1:L:56:SER:HB3	2.16	0.80
1:F:54:GLY:HA3	1:F:68:MET:HG3	1.64	0.80
1:I:115:ILE:HG22	1:I:351:LEU:HD23	1.63	0.80
1:J:55:SER:O	1:J:62:ARG:HG2	1.81	0.80
1:M:329:SER:O	1:M:331:ARG:CD	2.26	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:752:ASN:ND2	2:V:755:PHE:CE2	2.50	0.80
1:E:359:LYS:HG2	1:E:360:ASN:N	1.96	0.80
1:G:22:ARG:HG2	1:G:22:ARG:HH11	1.45	0.80
1:K:22:ARG:NH2	1:N:170:ARG:NH2	2.29	0.80
1:M:85:GLU:O	1:M:85:GLU:CG	2.29	0.80
1:F:283:THR:HB	1:F:398:GLU:OE1	1.82	0.80
1:G:392:LEU:O	1:G:392:LEU:HG	1.80	0.80
1:M:85:GLU:O	1:M:86:LYS:HB2	1.80	0.80
1:B:313:ALA:O	1:B:314:GLN:HB2	1.80	0.80
1:F:319:LEU:CD1	1:F:388:LEU:HD11	2.12	0.80
1:K:414:PHE:CE1	1:K:418:ILE:HD11	2.17	0.80
1:N:235:PRO:HG2	1:N:236:LEU:H	1.47	0.80
2:Q:751:GLN:HG3	2:Q:755:PHE:CE1	2.17	0.80
2:W:749:GLU:HA	2:W:752:ASN:HB2	1.64	0.80
1:M:44:LYS:CG	1:M:49:LYS:HB2	2.10	0.80
1:N:35:VAL:CG1	1:N:70:LEU:HD21	2.11	0.80
1:F:286:THR:HG21	1:F:389:PRO:HG2	1.62	0.80
1:F:422:GLU:O	1:F:426:ASP:HB2	1.82	0.80
1:A:443:GLN:CD	2:Q:758:LYS:NZ	2.41	0.79
1:C:160:ALA:N	1:C:161:PRO:CD	2.44	0.79
1:D:68:MET:HG3	1:D:97:TYR:O	1.82	0.79
1:M:217:VAL:O	1:M:221:ILE:HG13	1.81	0.79
1:B:443:GLN:OE1	2:Y:758:LYS:NZ	2.15	0.79
1:G:276:ALA:HB2	1:G:364:ALA:HB2	1.63	0.79
1:H:418:ILE:HG22	1:H:422:GLU:CD	2.07	0.79
1:I:3:LYS:HB3	1:I:75:ASN:OD1	1.83	0.79
1:M:402:ASN:OD1	1:M:404:VAL:HG12	1.81	0.79
1:N:274:PHE:O	1:N:278:ILE:HG12	1.81	0.79
1:E:91:ARG:HD2	1:E:91:ARG:C	2.07	0.79
1:E:373:TYR:CE2	2:W:746:LYS:HB2	2.18	0.79
1:F:300:VAL:HG12	1:F:301:PRO:CD	2.11	0.79
1:G:275:ILE:O	1:G:279:VAL:HG23	1.81	0.79
1:G:315:ASN:ND2	1:G:369:ASP:O	2.16	0.79
2:T:753:ALA:O	2:T:757:TYR:CE1	2.34	0.79
1:C:182:GLU:HB3	1:C:200:LYS:CD	2.13	0.79
1:F:360:ASN:HB2	1:F:362:LEU:CD1	2.12	0.79
1:K:63:ILE:HG12	2:V:751:GLN:NE2	1.97	0.79
1:A:167:ASN:HB3	1:A:170:ARG:HG3	1.64	0.79
1:F:82:TRP:CZ3	1:F:220:THR:HG21	2.17	0.79
2:O:753:ALA:O	2:O:756:ARG:HG2	1.82	0.79
1:G:383:ASN:O	1:G:385:ILE:N	2.16	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:127:PHE:CZ	1:H:248:LEU:HD22	2.17	0.79
1:I:171:ASP:CG	1:I:225:HIS:HE2	1.89	0.79
1:L:129:LEU:HD22	1:L:131:PRO:HG3	1.65	0.79
1:C:60:PHE:HB3	2:Q:758:LYS:CG	2.12	0.79
1:E:221:ILE:HD13	1:E:224:LYS:HD3	1.63	0.79
1:L:176:LEU:O	1:L:181:PHE:HB2	1.82	0.79
1:B:162:THR:O	1:B:163:ASP:HB2	1.82	0.79
1:B:172:ILE:CD1	1:B:218:VAL:HA	2.13	0.79
1:B:302:GLY:O	2:Z:750:GLY:HA2	1.81	0.79
1:K:58:GLU:O	1:K:61:VAL:HG22	1.82	0.79
1:B:153:LYS:HE2	1:B:153:LYS:HA	1.63	0.79
1:E:319:LEU:HD13	1:E:388:LEU:HD11	1.64	0.79
1:G:402:ASN:OD1	1:G:404:VAL:HG13	1.83	0.79
1:J:37:ILE:HD12	1:J:41:GLN:CB	2.11	0.79
1:C:4:TYR:HB3	1:C:9:ILE:HD11	1.65	0.78
1:E:26:THR:HG23	1:E:30:GLY:O	1.82	0.78
1:E:375:MET:HB3	1:E:379:GLU:CG	2.13	0.78
1:J:302:GLY:HA2	2:2:750:GLY:HA2	1.66	0.78
1:D:122:LEU:HD11	1:D:359:LYS:HZ1	1.47	0.78
1:G:155:GLY:O	1:G:156:TYR:O	1.99	0.78
1:G:404:VAL:HG22	1:G:405:MET:HE2	1.65	0.78
1:J:265:LEU:O	1:J:326:ARG:NH1	2.16	0.78
1:L:164:LEU:O	1:L:168:CYS:HB3	1.84	0.78
1:N:28:ILE:HD11	1:N:417:PHE:CD1	2.17	0.78
1:N:371:ASN:O	1:N:375:MET:HB2	1.83	0.78
1:A:172:ILE:HD12	1:A:218:VAL:HA	1.63	0.78
1:E:304:GLU:OE2	3:E:501:GLN:CD	2.26	0.78
1:G:25:PHE:O	1:G:32:ILE:HD12	1.83	0.78
1:I:323:PRO:HD2	1:I:331:ARG:O	1.83	0.78
1:M:141:ASP:OD2	1:M:144:GLY:N	2.15	0.78
1:M:291:PRO:HG3	1:M:341:ALA:HA	1.66	0.78
1:N:302:GLY:HA3	2:V:749:GLU:HB3	1.66	0.78
1:B:239:VAL:CG1	2:Z:757:TYR:HE2	1.97	0.78
1:B:260:ASP:HB2	1:B:268:SER:HA	1.66	0.78
1:J:127:PHE:CZ	1:J:248:LEU:HD22	2.17	0.78
1:M:402:ASN:O	1:M:406:VAL:HG23	1.82	0.78
2:P:751:GLN:HB3	2:P:755:PHE:HE1	1.48	0.78
2:R:751:GLN:HA	2:R:751:GLN:NE2	1.91	0.78
1:B:109:ARG:HD3	1:B:344:TYR:CE2	2.18	0.78
1:D:45:ALA:HA	1:D:50:VAL:HG23	1.64	0.78
1:D:60:PHE:CB	2:Y:758:LYS:HG3	2.13	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:60:PHE:HB3	2:R:758:LYS:HG3	1.66	0.78
1:I:372:ILE:HD12	1:I:375:MET:SD	2.24	0.78
1:K:162:THR:O	1:K:166:GLU:N	2.13	0.78
1:A:427:MET:HE1	2:O:759:ASN:HB2	1.66	0.78
1:B:191:ALA:HB3	1:B:194:GLN:NE2	1.97	0.78
1:F:260:ASP:O	1:F:266:GLN:HA	1.83	0.78
1:H:357:GLY:HA2	1:H:362:LEU:CD1	2.12	0.78
1:I:160:ALA:O	1:I:161:PRO:C	2.26	0.78
1:J:160:ALA:HB1	1:J:161:PRO:HD2	1.66	0.78
1:G:383:ASN:C	1:G:385:ILE:H	1.90	0.78
1:I:427:MET:HE2	2:S:759:ASN:CG	2.08	0.78
1:J:392:LEU:O	1:J:392:LEU:HD12	1.82	0.78
1:B:162:THR:O	1:B:162:THR:HG22	1.81	0.78
1:D:122:LEU:HD11	1:D:359:LYS:NZ	1.99	0.78
1:E:60:PHE:CD2	2:R:758:LYS:HG3	2.19	0.78
1:H:82:TRP:HE1	1:H:221:ILE:HD11	1.49	0.78
1:L:98:ASN:HD22	1:L:99:PRO:HD3	1.48	0.78
2:P:751:GLN:HB3	2:P:755:PHE:CE1	2.18	0.78
1:E:380:ARG:C	1:E:382:GLU:H	1.92	0.78
1:I:9:ILE:H	1:I:9:ILE:HD12	1.49	0.78
1:G:281:HIS:HD2	1:G:353:ALA:HB1	1.46	0.78
1:G:291:PRO:HG3	1:G:341:ALA:HA	1.64	0.78
1:I:295:SER:O	1:I:299:LEU:HD13	1.83	0.78
1:C:140:LEU:HB2	1:C:226:GLY:O	1.84	0.77
1:C:206:ARG:HG3	1:C:206:ARG:O	1.82	0.77
1:E:5:THR:O	1:E:8:ASP:HB2	1.84	0.77
1:H:24:GLN:HG2	1:H:32:ILE:CD1	2.13	0.77
1:H:268:SER:O	1:H:271:ALA:HB3	1.83	0.77
1:J:115:ILE:HG22	1:J:351:LEU:HD23	1.65	0.77
1:J:317:SER:OG	1:J:373:TYR:HE1	1.66	0.77
2:V:749:GLU:HA	2:V:752:ASN:HB2	1.67	0.77
1:A:6:ARG:HG2	1:A:10:GLU:OE1	1.84	0.77
1:F:119:MET:HE1	1:F:127:PHE:HB2	1.67	0.77
1:L:253:ASN:O	1:L:255:VAL:HG23	1.84	0.77
1:L:288:VAL:HG11	1:L:345:LEU:O	1.83	0.77
1:I:197:ILE:HD12	1:I:214:PHE:CZ	2.19	0.77
1:J:116:LEU:O	1:J:119:MET:N	2.17	0.77
1:K:44:LYS:HD2	1:K:50:VAL:CG2	2.14	0.77
1:N:380:ARG:O	1:N:380:ARG:HG2	1.85	0.77
1:F:244:MET:HB2	1:F:339:PRO:HD3	1.65	0.77
1:L:35:VAL:HG11	1:L:70:LEU:CD2	2.14	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:751:GLN:HB3	2:S:755:PHE:CE1	2.20	0.77
2:S:754:HIS:CA	2:S:757:TYR:HE1	1.98	0.77
1:G:300:VAL:CG1	1:G:301:PRO:HD2	2.13	0.77
1:K:5:THR:HG22	1:K:8:ASP:OD2	1.84	0.77
1:N:234:LYS:HD2	1:N:297:LYS:O	1.84	0.77
2:X:749:GLU:HA	2:X:752:ASN:HB2	1.66	0.77
1:B:427:MET:HE1	2:W:759:ASN:CB	2.13	0.77
1:D:136:PHE:HD1	1:D:235:PRO:HG3	1.48	0.77
1:F:162:THR:CG2	1:F:170:ARG:HH22	1.97	0.77
1:K:169:ARG:HE	1:K:195:HIS:HD2	1.30	0.77
1:K:184:GLU:OE1	1:K:200:LYS:HG3	1.84	0.77
1:C:34:ASN:C	1:C:34:ASN:HD22	1.91	0.77
1:D:278:ILE:O	1:D:282:ALA:HB2	1.85	0.77
1:D:349:VAL:O	1:D:352:ALA:HB3	1.84	0.77
1:I:311:TRP:HZ3	1:I:322:ILE:CD1	1.97	0.77
1:I:357:GLY:HA2	1:I:362:LEU:CD2	2.14	0.77
1:L:60:PHE:CD2	2:1:758:LYS:HG2	2.19	0.77
1:A:373:TYR:CE2	2:P:747:MET:HE3	2.19	0.77
1:B:163:ASP:HA	1:B:167:ASN:HB2	1.66	0.77
1:D:52:PHE:HE1	1:D:70:LEU:HD11	1.50	0.77
1:K:60:PHE:CD2	2:V:758:LYS:HG2	2.20	0.77
1:L:303:TYR:HE1	2:S:753:ALA:CB	1.98	0.77
1:N:162:THR:HG22	1:N:164:LEU:H	1.50	0.77
2:S:754:HIS:HA	2:S:757:TYR:HE1	1.49	0.77
2:W:748:LEU:HA	2:W:751:GLN:OE1	1.85	0.77
1:E:316:ARG:HH12	1:E:372:ILE:HG12	1.47	0.77
1:I:399:PHE:CE1	1:I:405:MET:HB3	2.20	0.77
1:L:192:PRO:HD3	2:S:757:TYR:HD2	1.49	0.77
1:A:231:PHE:HB3	1:A:339:PRO:HB2	1.67	0.77
1:A:302:GLY:HA2	2:P:747:MET:HE2	1.65	0.77
1:E:311:TRP:HB3	1:E:320:ILE:HB	1.67	0.77
1:K:129:LEU:O	1:K:201:TYR:HA	1.85	0.77
1:M:163:ASP:OD2	1:M:167:ASN:HB2	1.85	0.77
1:C:113:LYS:CA	1:C:116:LEU:HD12	2.12	0.76
1:L:376:SER:H	1:L:379:GLU:HB3	1.47	0.76
2:S:751:GLN:O	2:S:755:PHE:CD1	2.36	0.76
1:A:183:ILE:HD13	1:A:183:ILE:H	1.50	0.76
1:B:44:LYS:HE3	1:B:49:LYS:HB3	1.68	0.76
1:C:139:LYS:HA	1:C:227:LEU:HD23	1.66	0.76
1:C:159:LEU:C	1:C:161:PRO:HD3	2.10	0.76
1:F:399:PHE:HZ	1:F:409:LEU:CD1	1.98	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:748:LEU:O	2:P:748:LEU:HD13	1.84	0.76
2:Z:753:ALA:O	2:Z:757:TYR:HE1	1.65	0.76
1:C:184:GLU:OE2	1:C:200:LYS:HE3	1.86	0.76
1:K:167:ASN:ND2	1:K:170:ARG:HH11	1.83	0.76
1:N:406:VAL:HG22	1:N:414:PHE:CE1	2.21	0.76
1:B:150:LEU:HD22	1:B:192:PRO:O	1.84	0.76
1:B:239:VAL:HA	2:Z:757:TYR:CE2	2.21	0.76
1:E:273:HIS:HB2	1:E:358:ILE:HD13	1.68	0.76
1:H:98:ASN:ND2	1:H:103:PRO:O	2.18	0.76
1:H:234:LYS:HE3	1:H:297:LYS:O	1.86	0.76
1:I:439:GLN:HE22	2:P:759:ASN:HA	1.48	0.76
1:K:97:TYR:HE2	1:K:103:PRO:HB3	1.47	0.76
1:M:381:MET:HE2	1:M:386:VAL:HA	1.67	0.76
1:A:371:ASN:OD1	1:A:374:VAL:HG12	1.85	0.76
1:E:373:TYR:CD2	2:W:746:LYS:HB2	2.20	0.76
1:J:201:TYR:O	1:J:202:ALA:HB2	1.84	0.76
1:M:58:GLU:O	1:M:61:VAL:HG22	1.85	0.76
1:M:211:ILE:HG22	1:M:212:GLN:N	2.01	0.76
2:S:749:GLU:C	2:S:752:ASN:HB3	2.10	0.76
1:B:212:GLN:OE1	1:B:212:GLN:HA	1.84	0.76
1:C:245:HIS:CE1	1:C:335:ARG:HE	2.03	0.76
1:C:253:ASN:O	1:C:255:VAL:HG23	1.86	0.76
1:F:301:PRO:HB3	1:F:373:TYR:HE2	1.50	0.76
1:H:39:VAL:C	1:H:41:GLN:H	1.92	0.76
1:I:128:ASN:O	1:I:248:LEU:HA	1.86	0.76
1:I:319:LEU:HD23	1:I:320:ILE:HG13	1.65	0.76
1:D:418:ILE:HG22	1:D:419:GLU:N	2.01	0.76
1:H:68:MET:HG2	1:H:96:ILE:CG2	2.14	0.76
1:H:371:ASN:HB3	1:H:374:VAL:HG13	1.68	0.76
1:J:331:ARG:O	1:J:331:ARG:HG2	1.74	0.76
1:M:44:LYS:HG3	1:M:49:LYS:CB	2.14	0.76
2:R:748:LEU:O	2:R:752:ASN:HB2	1.84	0.76
1:D:406:VAL:HG22	1:D:414:PHE:CE1	2.19	0.76
1:I:396:LEU:O	1:I:400:LYS:HG3	1.86	0.76
1:K:273:HIS:HB3	1:K:357:GLY:O	1.85	0.76
1:L:289:THR:HB	1:L:337:VAL:HG13	1.68	0.76
1:N:23:LEU:HD12	1:N:70:LEU:HD23	1.68	0.76
1:N:32:ILE:HD12	1:N:216:LEU:HD22	1.67	0.76
1:N:167:ASN:HA	1:N:170:ARG:HB2	1.67	0.76
1:C:437:ARG:C	1:C:439:GLN:H	1.93	0.76
1:J:150:LEU:HD13	1:J:192:PRO:O	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:286:THR:HG21	1:A:389:PRO:CG	2.16	0.76
1:B:140:LEU:HB2	1:B:226:GLY:O	1.86	0.76
1:G:159:LEU:CD1	1:M:216:LEU:HD21	2.16	0.76
1:G:252:LYS:O	1:G:253:ASN:HB2	1.85	0.76
1:K:60:PHE:HD2	2:V:758:LYS:HG2	1.48	0.76
1:K:167:ASN:ND2	1:K:170:ARG:NH1	2.34	0.76
2:T:747:MET:O	2:T:751:GLN:HB2	1.86	0.76
2:1:748:LEU:O	2:1:752:ASN:HB2	1.84	0.76
1:F:76:THR:HB	1:F:93:ILE:HD13	1.68	0.75
1:J:160:ALA:CB	1:J:169:ARG:NH2	2.50	0.75
1:M:377:LYS:HA	1:M:380:ARG:CZ	2.16	0.75
1:N:167:ASN:HA	1:N:170:ARG:HD2	1.68	0.75
1:N:437:ARG:O	1:N:441:MET:HB3	1.85	0.75
2:O:753:ALA:HA	2:O:756:ARG:HD3	1.67	0.75
1:F:234:LYS:HD2	1:F:236:LEU:O	1.84	0.75
1:G:191:ALA:HB2	1:G:240:ASN:HB2	1.68	0.75
1:G:370:ARG:HH21	1:G:374:VAL:HG13	1.51	0.75
1:M:113:LYS:O	1:M:117:LYS:HG3	1.85	0.75
1:N:140:LEU:HD12	1:N:227:LEU:CA	2.16	0.75
1:C:396:LEU:O	1:C:400:LYS:HG3	1.86	0.75
1:I:119:MET:HB2	1:I:355:LEU:HD11	1.68	0.75
1:N:112:LEU:HD13	1:N:205:VAL:HG13	1.66	0.75
1:D:406:VAL:HG22	1:D:414:PHE:HE1	1.51	0.75
1:F:258:PHE:CB	1:F:271:ALA:HB2	2.16	0.75
1:I:208:CYS:SG	1:I:347:LEU:HD22	2.25	0.75
1:I:341:ALA:O	1:I:343:PRO:HD3	1.87	0.75
1:K:329:SER:O	1:K:330:THR:C	2.28	0.75
2:1:751:GLN:CB	2:1:755:PHE:HE1	1.94	0.75
1:A:84:ALA:O	1:A:85:GLU:CB	2.34	0.75
1:H:48:ASN:OD1	1:H:72:PRO:HD2	1.87	0.75
1:H:249:SER:HB3	1:H:331:ARG:HB3	1.67	0.75
1:L:37:ILE:HD12	1:L:37:ILE:O	1.87	0.75
1:E:236:LEU:HB2	1:E:239:VAL:CG1	2.16	0.75
1:E:393:ALA:O	1:E:397:GLU:HG2	1.86	0.75
1:H:231:PHE:HB3	1:H:339:PRO:HB2	1.69	0.75
1:J:83:THR:O	1:J:85:GLU:N	2.20	0.75
1:L:345:LEU:HD22	1:L:409:LEU:HD22	1.69	0.75
1:N:22:ARG:HG2	1:N:22:ARG:HH11	1.52	0.75
1:N:368:ILE:N	1:N:368:ILE:HD12	2.01	0.75
2:X:751:GLN:O	2:X:755:PHE:HD2	1.69	0.75
1:C:81:PRO:O	1:C:83:THR:N	2.16	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:370:ARG:HE	1:E:370:ARG:H	1.34	0.75
1:F:207:SER:O	1:F:211:ILE:HG12	1.85	0.75
1:G:129:LEU:HD12	1:G:347:LEU:HD21	1.68	0.75
1:G:382:GLU:HG3	1:G:383:ASN:ND2	2.01	0.75
1:H:63:ILE:HD12	2:2:747:MET:HE3	1.67	0.75
1:J:58:GLU:O	1:J:61:VAL:HG22	1.87	0.75
1:J:376:SER:O	1:J:380:ARG:HG3	1.87	0.75
2:X:752:ASN:HA	2:X:755:PHE:CE2	2.21	0.75
2:Z:746:LYS:O	2:Z:750:GLY:N	2.17	0.75
1:A:208:CYS:HB3	1:A:343:PRO:HB2	1.68	0.75
1:F:168:CYS:O	1:F:172:ILE:HG13	1.86	0.75
1:J:243:GLY:HA2	1:J:298:ARG:NH1	2.02	0.75
1:J:248:LEU:HB2	1:J:332:VAL:HG23	1.69	0.75
1:L:128:ASN:CA	1:L:202:ALA:O	2.34	0.75
1:M:380:ARG:NH1	1:M:387:ASP:OD2	2.19	0.75
1:N:28:ILE:O	1:N:28:ILE:HD13	1.86	0.75
1:B:351:LEU:O	1:B:351:LEU:HG	1.83	0.75
1:C:162:THR:O	1:C:164:LEU:N	2.20	0.75
1:D:51:MET:HG3	1:D:68:MET:O	1.86	0.75
1:E:60:PHE:HB3	2:R:758:LYS:CG	2.17	0.75
1:F:319:LEU:HD23	1:F:319:LEU:O	1.86	0.75
1:I:58:GLU:O	1:I:61:VAL:HG23	1.87	0.75
1:K:9:ILE:HD12	1:K:74:LEU:HD13	1.69	0.75
1:K:136:PHE:CD1	1:K:235:PRO:HG3	2.21	0.75
1:D:55:SER:O	1:D:62:ARG:HB3	1.86	0.74
1:E:308:TYR:HD1	1:E:372:ILE:HG13	1.52	0.74
1:F:191:ALA:HB1	1:F:192:PRO:CD	2.17	0.74
1:J:27:ASP:HA	1:J:57:ILE:HG23	1.69	0.74
1:J:62:ARG:HB2	2:U:754:HIS:CE1	2.20	0.74
1:M:381:MET:HE1	1:M:387:ASP:OD2	1.87	0.74
1:N:109:ARG:NH2	1:N:113:LYS:HE3	2.02	0.74
1:B:129:LEU:O	1:B:131:PRO:HD3	1.86	0.74
1:B:208:CYS:O	1:B:212:GLN:HG2	1.87	0.74
1:D:127:PHE:CZ	1:D:248:LEU:HD22	2.22	0.74
1:E:375:MET:HG2	1:E:379:GLU:OE2	1.87	0.74
1:G:140:LEU:HD12	1:G:227:LEU:N	2.02	0.74
1:I:140:LEU:HD12	1:I:226:GLY:O	1.86	0.74
1:M:21:ILE:HD11	1:M:42:LEU:HD22	1.69	0.74
1:M:318:PRO:O	1:M:335:ARG:HD3	1.87	0.74
1:N:164:LEU:O	1:N:168:CYS:HB2	1.87	0.74
1:E:13:VAL:CG1	1:E:18:VAL:HB	2.15	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:5:THR:O	1:K:8:ASP:HB2	1.87	0.74
1:N:171:ASP:OD1	1:N:221:ILE:HG23	1.86	0.74
2:W:758:LYS:C	2:W:758:LYS:CD	2.59	0.74
1:C:108:PRO:HB3	1:C:345:LEU:HD21	1.68	0.74
1:D:369:ASP:OD2	1:D:370:ARG:N	2.20	0.74
1:G:127:PHE:CE2	1:G:351:LEU:HB2	2.21	0.74
1:G:208:CYS:HB3	1:G:343:PRO:CB	2.17	0.74
1:K:320:ILE:N	1:K:320:ILE:HD12	2.02	0.74
1:N:62:ARG:HG3	2:Z:754:HIS:HE1	1.51	0.74
1:C:282:ALA:HA	1:C:285:PHE:CZ	2.21	0.74
1:F:140:LEU:HD12	1:F:226:GLY:O	1.87	0.74
1:G:95:ASP:OD1	1:G:113:LYS:HE3	1.87	0.74
1:G:159:LEU:HD11	1:M:216:LEU:HD21	1.68	0.74
1:H:25:PHE:CD1	1:H:57:ILE:HD11	2.22	0.74
1:M:378:GLU:HA	1:M:381:MET:HB2	1.69	0.74
1:M:378:GLU:HA	1:M:381:MET:CB	2.17	0.74
1:B:439:GLN:NE2	2:Y:759:ASN:O	2.21	0.74
1:C:219:LYS:HA	1:C:229:ALA:CB	2.17	0.74
1:G:300:VAL:HG13	1:G:301:PRO:HD2	1.70	0.74
1:G:306:PRO:HG3	1:G:335:ARG:NH2	2.02	0.74
1:H:21:ILE:CD1	1:H:90:ALA:HB3	2.18	0.74
1:M:82:TRP:CD1	1:M:82:TRP:O	2.41	0.74
1:N:9:ILE:HG13	1:N:74:LEU:CD1	2.17	0.74
2:S:753:ALA:O	2:S:757:TYR:CD1	2.41	0.74
1:B:63:ILE:HG22	1:B:64:GLU:HG3	1.70	0.74
1:C:21:ILE:HD13	1:C:39:VAL:HA	1.69	0.74
1:C:369:ASP:OD2	1:C:370:ARG:N	2.18	0.74
1:G:22:ARG:HG2	1:G:22:ARG:NH1	2.00	0.74
1:G:63:ILE:C	1:G:64:GLU:HG3	2.11	0.74
1:H:164:LEU:HD22	1:H:165:GLY:H	1.53	0.74
1:J:21:ILE:CD1	1:J:39:VAL:HA	2.17	0.74
1:L:163:ASP:OD1	1:L:167:ASN:CG	2.30	0.74
1:L:261:GLU:H	1:L:261:GLU:CD	1.96	0.74
1:M:6:ARG:O	1:M:9:ILE:HD12	1.88	0.74
1:M:319:LEU:HD11	1:M:336:SER:HB2	1.70	0.74
1:B:252:LYS:HG2	1:B:257:ALA:HB2	1.70	0.74
1:C:370:ARG:O	1:C:371:ASN:HB3	1.86	0.74
1:G:83:THR:CG2	1:G:89:VAL:HB	2.17	0.74
1:G:185:ALA:HB2	1:M:37:ILE:HG22	1.68	0.74
1:G:297:LYS:HE3	1:I:436:GLU:CD	2.13	0.74
1:H:341:ALA:O	1:H:343:PRO:HD3	1.86	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:294:ASN:O	1:J:294:ASN:OD1	2.05	0.74
1:L:150:LEU:HD13	1:L:192:PRO:HB2	1.70	0.74
1:M:35:VAL:HG11	1:M:70:LEU:HD21	1.70	0.74
1:N:105:GLU:OE1	1:N:412:HIS:HB3	1.87	0.74
2:P:751:GLN:O	2:P:755:PHE:CD1	2.41	0.74
1:B:146:PRO:HB3	1:B:228:HIS:ND1	2.02	0.74
1:C:98:ASN:HB2	1:C:102:THR:O	1.88	0.74
1:C:133:PRO:O	1:C:196:GLU:HG3	1.88	0.74
1:D:63:ILE:CD1	2:Y:747:MET:HE3	2.18	0.74
1:D:68:MET:HG2	1:D:96:ILE:CG2	2.16	0.74
1:F:63:ILE:HG22	1:F:64:GLU:HG2	1.68	0.74
1:I:247:ASN:OD1	1:I:333:GLU:HB2	1.87	0.74
1:J:63:ILE:HG22	1:J:64:GLU:CG	2.12	0.74
1:L:161:PRO:HG2	1:L:169:ARG:NH2	2.03	0.74
2:X:759:ASN:O	2:X:760:ARG:HG3	1.87	0.74
1:A:82:TRP:HE1	1:A:221:ILE:HD13	1.53	0.74
1:A:346:ALA:O	1:A:350:LEU:HG	1.88	0.74
1:D:34:ASN:HD22	1:D:34:ASN:C	1.90	0.74
1:F:399:PHE:CZ	1:F:409:LEU:HD11	2.17	0.74
1:G:345:LEU:O	1:G:349:VAL:HG13	1.88	0.74
1:L:132:GLU:OE2	1:L:245:HIS:HD2	1.71	0.74
1:N:372:ILE:HD12	1:N:373:TYR:H	1.48	0.74
2:P:746:LYS:O	2:P:748:LEU:N	2.20	0.74
1:A:437:ARG:NH1	1:C:235:PRO:O	2.20	0.73
1:D:370:ARG:O	1:D:371:ASN:HB3	1.87	0.73
1:H:427:MET:O	1:H:431:GLN:HG2	1.87	0.73
1:J:6:ARG:CZ	1:J:46:LEU:HB2	2.18	0.73
1:K:22:ARG:HH22	1:N:170:ARG:NH2	1.84	0.73
1:K:309:VAL:HG22	1:K:388:LEU:CD2	2.18	0.73
1:K:402:ASN:OD1	1:K:404:VAL:HG13	1.87	0.73
1:N:240:ASN:HA	1:N:303:TYR:HD1	1.53	0.73
1:N:323:PRO:HD2	1:N:331:ARG:O	1.88	0.73
1:B:112:LEU:O	1:B:115:ILE:N	2.20	0.73
1:D:109:ARG:HG3	1:D:344:TYR:CE2	2.23	0.73
1:G:19:LYS:HA	1:G:39:VAL:CG1	2.17	0.73
1:H:439:GLN:HE22	2:Z:759:ASN:HB3	1.52	0.73
1:M:44:LYS:HD2	1:M:50:VAL:HG22	1.70	0.73
1:M:248:LEU:O	1:M:332:VAL:HG23	1.88	0.73
1:M:377:LYS:HB2	1:M:378:GLU:OE2	1.88	0.73
1:E:42:LEU:O	1:E:42:LEU:HD12	1.88	0.73
1:G:171:ASP:O	1:G:175:GLU:CG	2.37	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:303:TYR:O	1:J:304:GLU:HB2	1.88	0.73
1:K:281:HIS:CE1	1:K:404:VAL:HG11	2.24	0.73
1:K:370:ARG:HH12	1:K:372:ILE:CD1	2.00	0.73
1:M:91:ARG:CZ	1:M:93:ILE:HD11	2.18	0.73
1:A:160:ALA:HB2	1:A:188:HIS:HB2	1.69	0.73
1:D:136:PHE:CD1	1:D:235:PRO:HG3	2.24	0.73
1:E:206:ARG:HG2	1:E:206:ARG:HH11	1.52	0.73
1:F:63:ILE:CG1	2:X:751:GLN:HE21	2.01	0.73
1:N:18:VAL:O	1:N:19:LYS:HD3	1.87	0.73
2:S:753:ALA:HA	2:S:756:ARG:HG2	1.68	0.73
1:B:9:ILE:HG22	1:B:77:PHE:CE2	2.23	0.73
1:B:317:SER:CB	1:B:373:TYR:CE1	2.71	0.73
1:D:300:VAL:HG12	1:D:301:PRO:HD2	1.67	0.73
1:D:396:LEU:HD22	1:D:418:ILE:HD13	1.71	0.73
1:E:295:SER:O	1:E:299:LEU:HD22	1.88	0.73
1:G:372:ILE:O	1:G:375:MET:HB2	1.87	0.73
1:K:217:VAL:O	1:K:221:ILE:HG12	1.87	0.73
1:N:35:VAL:HG11	1:N:70:LEU:HD21	1.68	0.73
2:Q:750:GLY:O	2:Q:754:HIS:HB2	1.89	0.73
1:C:349:VAL:O	1:C:352:ALA:HB3	1.88	0.73
1:F:155:GLY:N	1:F:158:ASP:OD1	2.21	0.73
1:G:166:GLU:O	1:G:170:ARG:HG3	1.87	0.73
1:L:368:ILE:HG23	1:L:370:ARG:NH1	2.03	0.73
1:C:37:ILE:HG22	1:I:185:ALA:CB	2.19	0.73
1:E:239:VAL:HG23	2:W:757:TYR:CE2	2.22	0.73
1:G:142:GLU:H	1:G:142:GLU:CD	1.94	0.73
1:J:376:SER:HB2	1:J:378:GLU:OE1	1.88	0.73
1:J:411:GLU:HA	1:J:411:GLU:OE2	1.87	0.73
1:M:322:ILE:HG22	1:M:326:ARG:NH2	2.03	0.73
2:X:746:LYS:O	2:X:750:GLY:N	2.21	0.73
1:B:155:GLY:C	1:B:158:ASP:OD1	2.32	0.73
1:C:316:ARG:HD3	2:R:747:MET:HG2	1.71	0.73
1:D:300:VAL:CG1	1:D:301:PRO:HD2	2.17	0.73
1:E:310:ALA:CB	1:E:368:ILE:HD11	2.18	0.73
1:G:57:ILE:CD1	1:G:96:ILE:HD13	2.17	0.73
1:L:183:ILE:HD13	1:L:183:ILE:N	2.04	0.73
1:L:380:ARG:O	1:L:380:ARG:HG2	1.88	0.73
1:B:131:PRO:HG2	1:B:211:ILE:HD11	1.70	0.73
1:C:371:ASN:O	1:C:375:MET:SD	2.46	0.73
1:D:113:LYS:CA	1:D:116:LEU:HD12	2.13	0.73
1:K:91:ARG:HH21	1:K:93:ILE:HD11	1.54	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:169:ARG:NH2	1:K:188:HIS:HB2	2.03	0.73
1:L:372:ILE:H	1:L:372:ILE:CD1	2.01	0.73
1:N:129:LEU:CD1	1:N:347:LEU:HD21	2.19	0.73
2:U:749:GLU:O	2:U:752:ASN:HB3	1.88	0.73
1:B:183:ILE:HD13	1:B:199:PHE:HB3	1.71	0.73
1:C:223:ARG:O	1:C:226:GLY:N	2.22	0.73
1:E:127:PHE:CD2	1:E:351:LEU:HD22	2.24	0.73
1:F:112:LEU:HD11	1:F:204:ALA:HB1	1.68	0.73
1:G:243:GLY:HA3	1:G:298:ARG:NH1	2.03	0.73
1:H:253:ASN:HB2	1:H:255:VAL:CG2	2.17	0.73
1:L:155:GLY:C	1:L:189:GLU:O	2.32	0.73
1:M:378:GLU:C	1:M:381:MET:H	1.96	0.73
1:E:311:TRP:CB	1:E:320:ILE:HB	2.19	0.72
1:H:343:PRO:O	1:H:347:LEU:HB2	1.88	0.72
1:M:310:ALA:CB	1:M:368:ILE:HG13	2.10	0.72
1:A:189:GLU:HG3	1:A:190:VAL:N	1.98	0.72
1:C:109:ARG:HA	1:C:344:TYR:CD2	2.24	0.72
1:G:315:ASN:O	1:G:318:PRO:HD3	1.89	0.72
1:I:42:LEU:HD12	1:I:42:LEU:O	1.89	0.72
1:J:57:ILE:C	1:J:59:GLY:H	1.97	0.72
1:J:78:VAL:HG12	1:J:91:ARG:HG3	1.69	0.72
1:K:208:CYS:HA	1:K:211:ILE:CD1	2.19	0.72
1:A:372:ILE:CG2	1:A:385:ILE:HD13	2.19	0.72
1:A:402:ASN:O	1:A:406:VAL:HG23	1.89	0.72
1:A:427:MET:SD	2:O:759:ASN:ND2	2.63	0.72
1:B:317:SER:HB3	1:B:373:TYR:HE1	1.52	0.72
1:B:383:ASN:O	1:B:385:ILE:N	2.22	0.72
1:E:168:CYS:O	1:E:172:ILE:HG13	1.89	0.72
1:E:280:LYS:HD3	1:E:362:LEU:HD21	1.70	0.72
1:F:129:LEU:CD1	1:F:347:LEU:HD11	2.19	0.72
1:G:48:ASN:ND2	1:G:71:TYR:CG	2.58	0.72
1:I:215:LYS:HA	1:I:231:PHE:CE2	2.24	0.72
1:J:140:LEU:HD12	1:J:226:GLY:O	1.89	0.72
1:M:326:ARG:HA	1:M:330:THR:OG1	1.89	0.72
1:A:399:PHE:HZ	1:A:409:LEU:CD1	2.02	0.72
1:E:168:CYS:SG	1:E:172:ILE:HD11	2.29	0.72
1:G:28:ILE:O	1:G:28:ILE:HD13	1.90	0.72
1:G:295:SER:O	1:G:298:ARG:HB3	1.88	0.72
1:H:129:LEU:HD22	1:H:131:PRO:HG3	1.70	0.72
1:L:162:THR:O	1:L:163:ASP:C	2.30	0.72
1:L:297:LYS:HD2	1:M:429:ARG:O	1.88	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:369:ASP:C	1:L:369:ASP:OD2	2.32	0.72
1:A:205:VAL:HG23	1:A:206:ARG:H	1.54	0.72
1:E:308:TYR:HB2	1:E:372:ILE:HD11	1.71	0.72
1:F:96:ILE:HG22	1:F:104:PHE:HB2	1.71	0.72
1:F:171:ASP:CG	1:F:225:HIS:HE1	1.97	0.72
1:H:248:LEU:O	1:H:331:ARG:HB2	1.89	0.72
1:A:443:GLN:CD	2:Q:758:LYS:HZ3	1.97	0.72
1:C:308:TYR:HB2	1:C:372:ILE:HD12	1.71	0.72
1:G:388:LEU:O	1:G:389:PRO:O	2.07	0.72
1:H:68:MET:CG	1:H:96:ILE:HG22	2.19	0.72
1:M:381:MET:CE	1:M:386:VAL:HA	2.19	0.72
1:N:370:ARG:C	1:N:371:ASN:ND2	2.44	0.72
2:W:749:GLU:O	2:W:753:ALA:N	2.22	0.72
1:E:282:ALA:HB1	1:E:319:LEU:HD21	1.70	0.72
1:H:141:ASP:HB3	1:H:147:THR:CG2	2.19	0.72
1:K:418:ILE:HG22	1:K:422:GLU:HG3	1.70	0.72
1:D:181:PHE:HB3	1:D:183:ILE:HG12	1.72	0.72
1:M:378:GLU:CD	1:M:378:GLU:N	2.47	0.72
2:R:747:MET:O	2:R:751:GLN:HB2	1.89	0.72
1:H:25:PHE:HD1	1:H:57:ILE:HD11	1.55	0.72
1:H:68:MET:HG3	1:H:97:TYR:O	1.89	0.72
1:H:253:ASN:CB	1:H:255:VAL:HG23	2.20	0.72
1:I:45:ALA:HA	1:I:50:VAL:HG22	1.72	0.72
1:I:52:PHE:CE1	1:I:96:ILE:HD12	2.24	0.72
1:I:172:ILE:O	1:I:176:LEU:HG	1.90	0.72
1:K:444:TYR:N	1:K:444:TYR:HD2	1.88	0.72
1:A:57:ILE:CD1	1:A:96:ILE:HD13	2.20	0.72
1:C:150:LEU:CD1	1:C:192:PRO:HB2	2.19	0.72
1:E:375:MET:HB3	1:E:379:GLU:HB3	1.70	0.72
1:F:109:ARG:HA	1:F:344:TYR:CD2	2.24	0.72
1:G:150:LEU:HD13	1:G:192:PRO:HB2	1.71	0.72
1:G:431:GLN:NE2	1:I:237:PHE:CD2	2.57	0.72
1:J:84:ALA:HB2	1:J:88:LYS:NZ	2.05	0.72
1:J:129:LEU:HD22	1:J:131:PRO:HG3	1.72	0.72
1:L:139:LYS:HA	1:L:227:LEU:HD22	1.71	0.72
1:L:296:TYR:CE1	1:L:392:LEU:HA	2.25	0.72
1:M:120:GLU:C	1:M:122:LEU:H	1.97	0.72
1:M:289:THR:C	1:M:291:PRO:HD3	2.15	0.72
2:V:749:GLU:HA	2:V:752:ASN:CB	2.19	0.72
1:B:60:PHE:CD2	2:W:758:LYS:HG3	2.25	0.71
1:E:13:VAL:HG13	1:E:18:VAL:CB	2.14	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:115:ILE:CG2	1:I:351:LEU:HD23	2.20	0.71
1:J:345:LEU:HD22	1:J:409:LEU:HD22	1.72	0.71
1:K:114:ARG:O	1:K:117:LYS:HB2	1.90	0.71
1:K:320:ILE:HD12	1:K:320:ILE:H	1.55	0.71
1:M:249:SER:HA	1:M:258:PHE:CE1	2.24	0.71
1:M:290:ASN:ND2	1:M:299:LEU:HD21	2.05	0.71
1:N:184:GLU:OE1	1:N:184:GLU:HA	1.90	0.71
1:N:319:LEU:HD22	1:N:320:ILE:CD1	2.19	0.71
1:B:8:ASP:O	1:B:12:LEU:HD12	1.91	0.71
1:E:169:ARG:NH2	1:E:188:HIS:HB2	2.04	0.71
1:H:160:ALA:O	1:H:166:GLU:OE1	2.08	0.71
1:I:405:MET:O	1:I:406:VAL:C	2.32	0.71
1:K:164:LEU:O	1:K:168:CYS:HB2	1.90	0.71
1:L:52:PHE:CE1	1:L:70:LEU:HD13	2.26	0.71
1:L:161:PRO:O	1:L:162:THR:O	2.08	0.71
1:F:127:PHE:CE2	1:F:351:LEU:HD13	2.25	0.71
1:G:109:ARG:HA	1:G:344:TYR:CD2	2.24	0.71
1:H:302:GLY:C	1:H:303:TYR:HD2	1.98	0.71
1:I:4:TYR:HB3	1:I:9:ILE:CD1	2.20	0.71
1:I:319:LEU:CD2	1:I:320:ILE:HG13	2.19	0.71
1:K:316:ARG:CD	1:L:63:ILE:O	2.37	0.71
1:K:326:ARG:HA	1:K:330:THR:OG1	1.90	0.71
1:C:243:GLY:HA2	1:C:298:ARG:NH1	2.04	0.71
1:C:311:TRP:CZ2	1:C:367:PRO:HD3	2.25	0.71
1:D:234:LYS:HD2	1:D:239:VAL:O	1.90	0.71
1:A:215:LYS:O	1:A:219:LYS:HG3	1.90	0.71
1:E:67:ASP:O	1:E:99:PRO:HG3	1.91	0.71
1:L:371:ASN:ND2	1:L:374:VAL:HG13	2.05	0.71
1:M:132:GLU:HG2	1:M:198:ASP:OD1	1.91	0.71
1:N:83:THR:HG21	1:N:89:VAL:HG23	1.71	0.71
1:E:377:LYS:HA	1:E:380:ARG:NH2	2.05	0.71
1:E:434:PRO:HG2	1:F:434:PRO:HG2	1.71	0.71
2:1:747:MET:O	2:1:751:GLN:CB	2.39	0.71
2:1:758:LYS:HD2	2:1:758:LYS:O	1.91	0.71
2:2:748:LEU:O	2:2:752:ASN:HB2	1.89	0.71
1:C:369:ASP:OD2	1:C:370:ARG:HG2	1.90	0.71
1:D:62:ARG:HD3	2:Y:754:HIS:CE1	2.25	0.71
1:F:274:PHE:HB2	1:F:358:ILE:HD11	1.73	0.71
1:G:170:ARG:HG2	1:M:20:TYR:CE2	2.26	0.71
1:H:172:ILE:O	1:H:176:LEU:HD12	1.89	0.71
1:H:244:MET:HE1	1:H:341:ALA:HB3	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W:748:LEU:O	2:W:748:LEU:HD13	1.89	0.71
1:A:176:LEU:O	1:A:181:PHE:HB2	1.91	0.71
1:C:315:ASN:HB3	1:C:318:PRO:HD3	1.72	0.71
1:D:373:TYR:O	2:X:746:LYS:HD2	1.90	0.71
1:G:215:LYS:O	1:G:219:LYS:HG3	1.89	0.71
1:G:396:LEU:O	1:G:400:LYS:HG3	1.90	0.71
1:H:368:ILE:HD12	1:H:372:ILE:HG23	1.72	0.71
1:B:392:LEU:O	1:B:396:LEU:HG	1.90	0.71
1:B:423:ILE:O	1:B:427:MET:HG3	1.91	0.71
1:D:316:ARG:NH2	1:D:372:ILE:HD11	2.06	0.71
1:H:58:GLU:O	1:H:61:VAL:HG22	1.90	0.71
1:H:78:VAL:CG2	1:H:91:ARG:HH12	2.04	0.71
1:J:98:ASN:HB2	1:J:102:THR:O	1.90	0.71
1:L:219:LYS:HA	1:L:229:ALA:HB3	1.72	0.71
1:N:63:ILE:HD11	2:Z:751:GLN:NE2	2.04	0.71
2:O:758:LYS:C	2:O:758:LYS:HD3	2.15	0.71
2:V:751:GLN:O	2:V:755:PHE:CD2	2.42	0.71
1:D:164:LEU:HD13	1:F:223:ARG:NH1	2.06	0.71
1:G:252:LYS:O	1:G:252:LYS:HG3	1.91	0.71
1:J:63:ILE:HD12	2:U:747:MET:HE3	1.72	0.71
1:M:114:ARG:HA	1:M:117:LYS:CE	2.21	0.71
1:N:313:ALA:O	1:N:314:GLN:HB2	1.89	0.71
2:Y:753:ALA:O	2:Y:757:TYR:CE1	2.43	0.71
1:E:112:LEU:HD11	1:E:204:ALA:HB1	1.73	0.70
1:I:248:LEU:O	1:I:331:ARG:HB2	1.91	0.70
1:K:119:MET:HG2	1:K:124:PHE:HB2	1.73	0.70
1:F:389:PRO:HA	1:F:394:GLU:OE1	1.91	0.70
1:I:155:GLY:C	1:I:158:ASP:OD1	2.34	0.70
1:J:61:VAL:CG1	1:J:420:ALA:HB2	2.21	0.70
1:N:120:GLU:HA	1:N:124:PHE:O	1.90	0.70
1:A:435:TRP:CZ3	1:C:428:PHE:HB2	2.27	0.70
1:B:428:PHE:HB2	1:D:435:TRP:CZ3	2.26	0.70
1:D:150:LEU:HD13	1:D:192:PRO:O	1.90	0.70
1:E:385:ILE:O	1:E:385:ILE:HG22	1.90	0.70
1:J:275:ILE:CD1	1:J:332:VAL:HG11	2.20	0.70
1:M:127:PHE:CZ	1:M:248:LEU:HD22	2.26	0.70
1:M:137:LEU:HA	1:M:228:HIS:O	1.91	0.70
1:N:113:LYS:HA	1:N:116:LEU:HD12	1.71	0.70
2:W:751:GLN:O	2:W:755:PHE:HD2	1.75	0.70
1:A:302:GLY:C	2:P:750:GLY:HA3	2.17	0.70
1:B:284:SER:HB3	1:B:398:GLU:O	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:5:THR:HG23	1:D:8:ASP:OD2	1.90	0.70
1:H:91:ARG:HE	1:H:93:ILE:HD11	1.55	0.70
1:J:60:PHE:HB3	2:U:758:LYS:CG	2.20	0.70
1:K:216:LEU:HD21	1:N:159:LEU:HD13	1.72	0.70
1:A:135:PHE:O	1:A:194:GLN:HA	1.90	0.70
1:B:368:ILE:CG2	1:B:369:ASP:N	2.54	0.70
1:C:9:ILE:HG13	1:C:74:LEU:CD1	2.21	0.70
1:E:28:ILE:HD13	1:E:345:LEU:HD11	1.73	0.70
1:G:5:THR:H	1:G:8:ASP:HB2	1.54	0.70
1:G:208:CYS:HB3	1:G:343:PRO:HB3	1.72	0.70
1:H:35:VAL:HG11	1:H:70:LEU:CD2	2.21	0.70
1:I:246:CYS:SG	1:I:337:VAL:HG21	2.31	0.70
1:I:276:ALA:HB2	1:I:364:ALA:HA	1.73	0.70
2:T:753:ALA:O	2:T:757:TYR:HE1	1.71	0.70
1:H:247:ASN:HB3	1:H:331:ARG:HG3	1.72	0.70
1:H:439:GLN:NE2	2:Z:759:ASN:HB3	2.06	0.70
1:K:319:LEU:HB3	1:K:320:ILE:HD12	1.73	0.70
1:M:112:LEU:CD1	1:M:205:VAL:HG22	2.21	0.70
1:N:96:ILE:HG21	1:N:104:PHE:CD2	2.21	0.70
2:U:753:ALA:O	2:U:756:ARG:HG2	1.92	0.70
1:A:197:ILE:HD12	1:A:214:PHE:HZ	1.56	0.70
1:A:355:LEU:HD23	1:A:358:ILE:HD12	1.73	0.70
1:B:96:ILE:HG22	1:B:104:PHE:CB	2.21	0.70
1:D:13:VAL:HG13	1:D:18:VAL:HB	1.74	0.70
1:D:63:ILE:HG23	1:H:316:ARG:HG2	1.71	0.70
1:G:429:ARG:NH2	1:I:300:VAL:HG23	2.07	0.70
1:H:400:LYS:HG2	1:H:418:ILE:HD13	1.73	0.70
1:L:79:ILE:CD1	1:L:90:ALA:HB2	2.20	0.70
1:L:183:ILE:HA	1:L:199:PHE:HA	1.74	0.70
1:N:182:GLU:OE1	1:N:200:LYS:HD2	1.91	0.70
1:N:409:LEU:O	1:N:413:LEU:HB2	1.91	0.70
2:V:748:LEU:O	2:V:752:ASN:N	2.24	0.70
1:B:36:GLU:HG3	1:E:186:SER:O	1.92	0.70
1:B:231:PHE:HB3	1:B:339:PRO:HB2	1.72	0.70
1:C:150:LEU:HD13	1:C:192:PRO:HB2	1.72	0.70
1:C:232:MET:HE2	1:C:294:ASN:ND2	2.06	0.70
1:C:274:PHE:CE1	1:C:354:GLY:HA3	2.27	0.70
1:F:114:ARG:HA	1:F:117:LYS:HD2	1.74	0.70
1:F:323:PRO:HD2	1:F:331:ARG:O	1.92	0.70
1:F:406:VAL:HG22	1:F:414:PHE:HE1	1.56	0.70
1:G:6:ARG:O	1:G:10:GLU:HG3	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:233:PRO:HB2	1:J:294:ASN:O	1.92	0.70
1:K:30:GLY:HA2	1:K:342:ASN:HD22	1.57	0.70
1:M:127:PHE:HZ	1:M:248:LEU:HD22	1.57	0.70
2:W:749:GLU:HA	2:W:752:ASN:CB	2.22	0.70
1:C:68:MET:HE3	1:C:96:ILE:HG21	1.74	0.70
1:C:169:ARG:NH1	1:E:36:GLU:OE1	2.25	0.70
1:E:159:LEU:O	1:E:162:THR:OG1	2.07	0.70
1:E:323:PRO:HG2	1:E:331:ARG:CG	2.22	0.70
1:H:137:LEU:HD23	1:H:229:ALA:HA	1.73	0.70
1:H:399:PHE:HE1	1:H:405:MET:HB3	1.57	0.70
1:I:113:LYS:O	1:I:117:LYS:HG3	1.92	0.70
1:J:102:THR:OG1	1:J:103:PRO:HD2	1.92	0.70
1:L:141:ASP:HB3	1:L:147:THR:CG2	2.22	0.70
1:L:375:MET:HB2	1:L:380:ARG:HB3	1.74	0.70
2:Q:751:GLN:O	2:Q:755:PHE:CD1	2.45	0.70
1:A:169:ARG:HH21	1:A:195:HIS:CD2	2.09	0.70
1:D:328:ILE:HD13	1:D:328:ILE:H	1.54	0.70
1:I:399:PHE:HE1	1:I:405:MET:HB3	1.55	0.70
1:C:56:SER:HB3	1:I:156:TYR:CE2	2.26	0.69
1:E:310:ALA:HB2	1:E:385:ILE:CD1	2.22	0.69
1:E:318:PRO:HG3	1:E:321:ARG:HG3	1.74	0.69
1:F:160:ALA:O	1:F:161:PRO:O	2.09	0.69
1:J:116:LEU:O	1:J:117:LYS:C	2.34	0.69
1:K:60:PHE:HA	2:V:754:HIS:CE1	2.27	0.69
1:L:159:LEU:O	1:L:161:PRO:HD3	1.92	0.69
1:L:302:GLY:C	2:S:750:GLY:HA3	2.16	0.69
1:M:97:TYR:CE2	1:M:103:PRO:HB3	2.27	0.69
1:M:189:GLU:HB2	1:M:194:GLN:HB3	1.71	0.69
1:C:243:GLY:HA2	1:C:298:ARG:HH12	1.56	0.69
1:E:27:ASP:OD2	1:E:27:ASP:C	2.33	0.69
1:E:359:LYS:HB2	1:E:359:LYS:HZ2	1.58	0.69
1:F:34:ASN:ND2	1:F:34:ASN:C	2.47	0.69
1:G:182:GLU:HB3	1:G:200:LYS:NZ	2.07	0.69
1:F:96:ILE:HG22	1:F:104:PHE:CB	2.22	0.69
1:J:321:ARG:O	1:J:323:PRO:HD3	1.91	0.69
1:K:156:TYR:CE2	1:L:56:SER:HB3	2.26	0.69
1:L:175:GLU:HG3	1:L:221:ILE:CD1	2.21	0.69
1:M:68:MET:HE2	1:M:98:ASN:HA	1.72	0.69
1:M:326:ARG:CD	1:M:330:THR:HG23	2.22	0.69
1:A:379:GLU:O	1:A:382:GLU:HG2	1.91	0.69
1:C:79:ILE:HD13	1:C:90:ALA:HB2	1.72	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:267:LEU:HD11	1:D:322:ILE:HD12	1.74	0.69
1:F:371:ASN:N	1:F:371:ASN:HD22	1.89	0.69
1:I:404:VAL:CG2	1:I:405:MET:HE2	2.23	0.69
1:K:34:ASN:ND2	1:K:34:ASN:C	2.49	0.69
1:K:193:GLY:O	1:K:195:HIS:CE1	2.45	0.69
1:M:217:VAL:HG13	1:M:221:ILE:HD11	1.73	0.69
1:M:418:ILE:HG22	1:M:422:GLU:HG3	1.75	0.69
1:N:37:ILE:HD13	1:N:41:GLN:O	1.92	0.69
1:D:51:MET:CG	1:D:68:MET:O	2.41	0.69
1:E:316:ARG:HG2	2:W:747:MET:HG2	1.74	0.69
1:E:375:MET:HB3	1:E:379:GLU:CB	2.22	0.69
1:H:141:ASP:HB3	1:H:147:THR:HG21	1.73	0.69
1:H:178:GLU:O	1:H:179:MET:HG3	1.92	0.69
1:I:311:TRP:CZ3	1:I:322:ILE:CD1	2.75	0.69
1:J:96:ILE:HG22	1:J:104:PHE:HB2	1.72	0.69
1:J:166:GLU:O	1:J:167:ASN:C	2.34	0.69
1:J:275:ILE:HD11	1:J:332:VAL:HG11	1.74	0.69
1:L:113:LYS:O	1:L:117:LYS:HG3	1.91	0.69
1:N:5:THR:HG22	1:N:8:ASP:CG	2.18	0.69
2:1:751:GLN:O	2:1:754:HIS:N	2.25	0.69
1:C:140:LEU:HD23	1:C:146:PRO:HA	1.74	0.69
1:D:160:ALA:HB1	1:D:161:PRO:HD2	1.75	0.69
1:F:82:TRP:CD1	1:F:175:GLU:OE2	2.45	0.69
1:F:370:ARG:H	1:F:370:ARG:HD3	1.57	0.69
1:I:140:LEU:HD12	1:I:226:GLY:C	2.16	0.69
1:I:252:LYS:HB2	1:I:252:LYS:NZ	2.08	0.69
1:J:115:ILE:CG2	1:J:351:LEU:HD23	2.22	0.69
1:J:223:ARG:HH11	1:J:223:ARG:CG	2.03	0.69
1:J:247:ASN:O	1:J:248:LEU:HD23	1.93	0.69
1:K:178:GLU:O	1:K:179:MET:HG2	1.91	0.69
1:K:373:TYR:CD2	2:1:746:LYS:HB3	2.27	0.69
1:K:443:GLN:HB3	1:K:444:TYR:HD2	1.58	0.69
1:K:444:TYR:CD2	1:K:444:TYR:N	2.59	0.69
1:L:133:PRO:HB3	1:L:244:MET:SD	2.33	0.69
1:L:139:LYS:HA	1:L:227:LEU:CD2	2.23	0.69
1:N:341:ALA:O	1:N:343:PRO:HD3	1.92	0.69
1:B:302:GLY:O	2:Z:753:ALA:CB	2.37	0.69
1:C:131:PRO:HD2	1:C:199:PHE:HB2	1.75	0.69
1:G:431:GLN:NE2	1:I:237:PHE:CG	2.61	0.69
1:I:267:LEU:HD11	1:I:322:ILE:HD13	1.75	0.69
1:N:208:CYS:SG	1:N:343:PRO:O	2.51	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:52:PHE:CD1	1:A:70:LEU:HD13	2.28	0.69
1:C:37:ILE:HG22	1:I:185:ALA:HB2	1.74	0.69
1:C:171:ASP:O	1:C:175:GLU:HG2	1.93	0.69
1:D:51:MET:HE3	1:D:67:ASP:HB3	1.73	0.69
1:E:206:ARG:HH11	1:E:206:ARG:CG	2.04	0.69
1:E:319:LEU:CD1	1:E:388:LEU:HD11	2.21	0.69
1:F:34:ASN:ND2	1:F:34:ASN:O	2.25	0.69
1:G:18:VAL:O	1:G:39:VAL:HG11	1.92	0.69
1:G:162:THR:CG2	1:G:164:LEU:HD23	2.23	0.69
1:H:32:ILE:HD12	1:H:216:LEU:HD12	1.74	0.69
1:H:60:PHE:HB3	2:2:758:LYS:HG2	1.73	0.69
1:H:60:PHE:HD2	2:2:758:LYS:HG2	1.58	0.69
1:H:232:MET:HE3	1:N:440:TYR:HB2	1.73	0.69
1:I:9:ILE:HG12	1:I:74:LEU:HD12	1.75	0.69
1:I:171:ASP:OD1	1:I:221:ILE:HG23	1.93	0.69
1:I:316:ARG:NH1	2:Q:747:MET:HA	2.07	0.69
1:J:52:PHE:HE1	1:J:70:LEU:HD13	1.57	0.69
1:J:96:ILE:HG22	1:J:104:PHE:CB	2.21	0.69
1:K:140:LEU:HD22	1:K:144:GLY:O	1.93	0.69
1:K:316:ARG:HD2	1:L:63:ILE:O	1.92	0.69
1:L:115:ILE:HD13	1:L:118:GLU:OE1	1.93	0.69
1:M:414:PHE:CE1	1:M:418:ILE:HD11	2.27	0.69
1:N:63:ILE:HG22	1:N:64:GLU:HG2	1.73	0.69
1:N:127:PHE:CD1	1:N:351:LEU:HD13	2.28	0.69
1:C:243:GLY:CA	1:C:298:ARG:NH1	2.56	0.69
1:E:91:ARG:CD	1:E:92:PHE:O	2.41	0.69
1:H:132:GLU:HB2	1:H:245:HIS:HB2	1.75	0.69
1:I:206:ARG:O	1:I:209:ASP:HB2	1.93	0.69
1:M:34:ASN:O	1:M:34:ASN:ND2	2.26	0.69
1:M:96:ILE:HG22	1:M:104:PHE:HB2	1.74	0.69
1:N:62:ARG:CG	2:Z:754:HIS:CE1	2.76	0.69
1:B:23:LEU:HD22	1:B:94:CYS:SG	2.32	0.69
1:F:362:LEU:HD12	1:F:362:LEU:N	2.07	0.69
1:G:320:ILE:HG22	1:G:321:ARG:N	2.04	0.69
1:I:35:VAL:HG11	1:I:70:LEU:CD2	2.23	0.69
1:B:399:PHE:CZ	1:B:409:LEU:HD12	2.22	0.68
1:C:275:ILE:O	1:C:279:VAL:HG23	1.92	0.68
1:D:253:ASN:O	1:D:255:VAL:HG23	1.92	0.68
1:E:244:MET:HB2	1:E:339:PRO:HD3	1.75	0.68
1:F:355:LEU:HD23	1:F:355:LEU:N	2.08	0.68
1:N:63:ILE:CD1	2:Z:751:GLN:HE21	2.06	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:77:PHE:HB2	1:N:92:PHE:CE2	2.28	0.68
1:C:53:ASP:O	1:C:56:SER:OG	2.07	0.68
1:D:341:ALA:O	1:D:343:PRO:HD3	1.94	0.68
1:F:234:LYS:HE2	1:F:239:VAL:O	1.92	0.68
1:H:114:ARG:HH11	1:H:115:ILE:CD1	2.05	0.68
1:I:38:PRO:HG2	1:L:183:ILE:HG12	1.74	0.68
1:J:106:GLY:HA2	1:J:413:LEU:HG	1.74	0.68
1:K:134:GLU:HG2	1:K:189:GLU:HG3	1.75	0.68
2:Q:756:ARG:HH11	2:Q:756:ARG:CG	2.05	0.68
1:D:60:PHE:HB3	2:Y:758:LYS:CG	2.16	0.68
1:F:162:THR:O	1:F:162:THR:HG22	1.94	0.68
1:K:19:LYS:HB2	1:K:87:GLY:HA3	1.72	0.68
1:L:138:PHE:HB3	1:L:147:THR:O	1.92	0.68
1:N:304:GLU:CD	3:N:501:GLN:HG2	2.19	0.68
2:S:757:TYR:H	2:S:757:TYR:HD1	1.41	0.68
1:A:60:PHE:HB3	2:O:758:LYS:HG3	1.75	0.68
1:B:169:ARG:HD2	1:N:36:GLU:OE1	1.93	0.68
1:C:127:PHE:CZ	1:C:248:LEU:HD22	2.29	0.68
1:D:137:LEU:HA	1:D:228:HIS:O	1.94	0.68
1:D:359:LYS:NZ	1:D:359:LYS:CB	2.55	0.68
1:G:243:GLY:HA3	1:G:298:ARG:HH12	1.58	0.68
1:J:64:GLU:HB2	1:M:314:GLN:NE2	2.08	0.68
1:J:96:ILE:HG21	1:J:104:PHE:CD2	2.28	0.68
1:K:13:VAL:CG1	1:K:18:VAL:HB	2.10	0.68
1:L:346:ALA:O	1:L:350:LEU:HB2	1.93	0.68
1:M:60:PHE:HD2	2:T:758:LYS:HG3	1.58	0.68
1:C:113:LYS:HA	1:C:116:LEU:CD1	2.14	0.68
1:C:233:PRO:HB2	1:C:294:ASN:OD1	1.93	0.68
1:D:56:SER:HB2	1:H:156:TYR:CE2	2.29	0.68
1:D:112:LEU:HA	1:D:348:SER:OG	1.93	0.68
1:E:124:PHE:HD2	1:E:252:LYS:HB2	1.58	0.68
1:I:281:HIS:CD2	1:I:402:ASN:HD21	2.11	0.68
1:I:409:LEU:O	1:I:413:LEU:HB2	1.94	0.68
1:I:443:GLN:HE22	2:P:758:LYS:NZ	1.92	0.68
2:R:750:GLY:O	2:R:754:HIS:N	2.20	0.68
1:D:83:THR:HG21	1:D:89:VAL:HG23	1.75	0.68
1:D:248:LEU:HD11	1:D:350:LEU:HD13	1.74	0.68
1:F:312:SER:HB2	1:F:368:ILE:O	1.94	0.68
1:G:85:GLU:C	1:G:85:GLU:OE1	2.36	0.68
1:G:289:THR:O	1:G:341:ALA:HB2	1.93	0.68
1:H:183:ILE:HD12	1:H:183:ILE:N	2.05	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:380:ARG:O	1:H:380:ARG:HG2	1.93	0.68
1:I:111:ASN:HD21	1:I:409:LEU:HA	1.58	0.68
1:B:306:PRO:HA	1:B:317:SER:HB2	1.76	0.68
1:D:96:ILE:HG22	1:D:104:PHE:HB2	1.75	0.68
1:D:243:GLY:CA	1:D:298:ARG:HH12	2.07	0.68
1:E:5:THR:HG22	1:E:8:ASP:OD1	1.93	0.68
1:E:239:VAL:HG23	2:W:757:TYR:HE2	1.57	0.68
1:F:290:ASN:ND2	1:F:336:SER:O	2.23	0.68
1:H:302:GLY:O	2:Y:750:GLY:HA2	1.91	0.68
1:K:98:ASN:OD1	1:K:104:PHE:HA	1.94	0.68
1:L:163:ASP:OD1	1:L:167:ASN:HB2	1.93	0.68
1:M:120:GLU:C	1:M:122:LEU:N	2.51	0.68
1:N:119:MET:HE2	1:N:250:LEU:HD23	1.75	0.68
1:F:45:ALA:HA	1:F:50:VAL:HG23	1.74	0.68
1:F:357:GLY:HA2	1:F:362:LEU:HD13	1.76	0.68
1:K:176:LEU:O	1:K:181:PHE:HB2	1.94	0.68
1:M:152:ASP:C	1:M:152:ASP:OD2	2.36	0.68
1:M:289:THR:O	1:M:341:ALA:HB2	1.94	0.68
2:O:756:ARG:HG3	2:O:757:TYR:CE1	2.29	0.68
1:A:377:LYS:HA	1:A:380:ARG:NH1	2.09	0.68
1:D:57:ILE:C	1:D:59:GLY:H	2.00	0.68
1:D:132:GLU:HB2	1:D:245:HIS:HB2	1.75	0.68
1:E:300:VAL:HG12	1:E:301:PRO:HD2	1.75	0.68
1:E:323:PRO:HG2	1:E:331:ARG:HG3	1.75	0.68
1:F:329:SER:O	1:F:331:ARG:HD3	1.94	0.68
1:J:172:ILE:O	1:J:176:LEU:HG	1.94	0.68
1:K:376:SER:HB2	1:K:379:GLU:HB2	1.76	0.68
1:N:208:CYS:HB3	1:N:343:PRO:HB2	1.76	0.68
1:A:373:TYR:CD2	2:P:747:MET:HE3	2.29	0.68
1:A:427:MET:HE1	2:O:759:ASN:CB	2.23	0.68
1:B:233:PRO:HB2	1:B:294:ASN:OD1	1.93	0.68
1:C:341:ALA:O	1:C:343:PRO:HD3	1.94	0.68
1:E:127:PHE:HE2	1:E:351:LEU:HB2	1.56	0.68
1:G:63:ILE:HG22	1:G:64:GLU:CG	2.24	0.68
1:G:119:MET:HE3	1:G:250:LEU:CD2	2.24	0.68
1:L:163:ASP:OD1	1:L:167:ASN:CB	2.41	0.68
1:L:383:ASN:HD22	1:L:383:ASN:N	1.92	0.68
1:N:317:SER:HB3	1:N:373:TYR:OH	1.93	0.68
1:C:114:ARG:NH2	1:C:407:LYS:O	2.28	0.67
1:D:34:ASN:C	1:D:34:ASN:ND2	2.51	0.67
1:F:48:ASN:HB3	1:F:71:TYR:CD1	2.29	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:215:LYS:O	1:F:219:LYS:HG3	1.94	0.67
1:G:52:PHE:CE1	1:G:70:LEU:HD13	2.29	0.67
1:I:135:PHE:HB3	1:I:231:PHE:CE1	2.29	0.67
1:K:159:LEU:O	1:K:161:PRO:HD3	1.93	0.67
1:L:98:ASN:HB2	1:L:102:THR:HB	1.76	0.67
1:L:179:MET:HE1	1:L:217:VAL:HG21	1.76	0.67
1:N:239:VAL:CA	2:V:757:TYR:OH	2.41	0.67
1:N:239:VAL:HG13	2:V:757:TYR:OH	1.94	0.67
1:D:186:SER:O	1:F:36:GLU:HG3	1.94	0.67
1:D:377:LYS:HA	1:D:380:ARG:CZ	2.24	0.67
1:E:105:GLU:HG3	1:E:106:GLY:H	1.56	0.67
1:G:199:PHE:N	1:G:199:PHE:CD1	2.50	0.67
1:I:112:LEU:CD2	1:I:116:LEU:HD11	2.06	0.67
1:K:193:GLY:O	1:K:195:HIS:ND1	2.28	0.67
1:K:316:ARG:HG3	2:1:747:MET:SD	2.34	0.67
1:A:116:LEU:HD23	1:A:351:LEU:CD2	2.24	0.67
1:A:142:GLU:N	1:A:142:GLU:CD	2.52	0.67
1:A:252:LYS:O	1:A:252:LYS:HG3	1.93	0.67
1:B:96:ILE:HG22	1:B:104:PHE:HB3	1.76	0.67
1:H:13:VAL:HG13	1:H:18:VAL:HB	1.77	0.67
1:M:290:ASN:O	1:M:296:TYR:HE1	1.76	0.67
1:N:295:SER:O	1:N:298:ARG:HB3	1.94	0.67
1:N:316:ARG:HG3	1:N:373:TYR:HE1	1.59	0.67
1:D:234:LYS:HE3	1:D:298:ARG:HA	1.77	0.67
1:E:360:ASN:HB2	1:E:362:LEU:CD1	2.24	0.67
1:F:258:PHE:HB3	1:F:271:ALA:CB	2.25	0.67
1:G:29:LEU:HD11	1:G:60:PHE:CE2	2.30	0.67
1:G:316:ARG:HG2	1:G:373:TYR:CZ	2.28	0.67
1:I:404:VAL:HG23	1:I:405:MET:HE2	1.75	0.67
1:J:5:THR:HG22	1:J:6:ARG:N	2.08	0.67
1:J:21:ILE:HD11	1:J:39:VAL:HA	1.75	0.67
1:M:167:ASN:HD21	1:M:170:ARG:NH1	1.93	0.67
1:N:85:GLU:CD	1:N:86:LYS:H	2.02	0.67
2:Y:751:GLN:HG3	2:Y:755:PHE:CE1	2.29	0.67
1:A:57:ILE:HD11	1:A:96:ILE:CD1	2.25	0.67
1:A:288:VAL:HG12	1:A:289:THR:N	2.09	0.67
1:D:20:TYR:HE2	1:D:22:ARG:HH12	1.43	0.67
1:D:79:ILE:O	1:D:79:ILE:HG22	1.94	0.67
1:E:96:ILE:HG22	1:E:104:PHE:CB	2.24	0.67
1:F:63:ILE:HG13	2:X:751:GLN:HE21	1.58	0.67
1:F:234:LYS:HG2	1:F:297:LYS:O	1.92	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:96:ILE:O	1:G:104:PHE:HB2	1.94	0.67
1:G:302:GLY:HA3	2:T:750:GLY:HA3	1.71	0.67
1:G:331:ARG:HH21	1:G:331:ARG:HG3	1.57	0.67
2:1:752:ASN:O	2:1:756:ARG:HD3	1.94	0.67
1:C:19:LYS:HA	1:C:39:VAL:HG11	1.76	0.67
1:C:139:LYS:HA	1:C:227:LEU:CD2	2.24	0.67
1:D:136:PHE:HD2	1:D:193:GLY:O	1.78	0.67
1:E:51:MET:CE	1:E:67:ASP:HB3	2.24	0.67
1:E:333:GLU:HG2	1:E:335:ARG:HG3	1.77	0.67
1:H:139:LYS:HG3	1:H:227:LEU:HD23	1.75	0.67
1:L:117:LYS:HA	1:L:120:GLU:HG3	1.76	0.67
1:D:20:TYR:HB3	1:D:89:VAL:HG13	1.76	0.67
1:D:150:LEU:HD22	1:D:193:GLY:CA	2.24	0.67
1:E:162:THR:HG22	1:E:169:ARG:HH22	1.59	0.67
1:F:93:ILE:HG21	1:F:109:ARG:CZ	2.25	0.67
1:G:319:LEU:HD13	1:G:388:LEU:HD11	1.77	0.67
1:J:54:GLY:CA	1:J:68:MET:HE3	2.18	0.67
1:L:84:ALA:HB2	1:L:88:LYS:HZ3	1.59	0.67
1:L:95:ASP:OD1	1:L:109:ARG:NH2	2.28	0.67
1:L:189:GLU:OE2	1:L:190:VAL:HG22	1.93	0.67
1:L:285:PHE:HB2	1:L:349:VAL:HG21	1.75	0.67
1:L:373:TYR:CD2	2:S:746:LYS:HB2	2.29	0.67
1:N:346:ALA:O	1:N:350:LEU:HD12	1.93	0.67
1:C:136:PHE:CE2	1:C:194:GLN:HG3	2.30	0.67
1:C:139:LYS:O	1:C:147:THR:HG23	1.95	0.67
1:D:46:LEU:C	1:D:48:ASN:H	2.03	0.67
1:D:274:PHE:HD1	1:D:358:ILE:HD11	1.59	0.67
1:G:27:ASP:HB2	1:G:57:ILE:O	1.95	0.67
1:H:255:VAL:HG12	1:H:256:ASN:H	1.59	0.67
1:I:319:LEU:HD23	1:I:319:LEU:C	2.20	0.67
1:J:161:PRO:O	1:J:162:THR:O	2.13	0.67
1:N:62:ARG:CG	2:Z:754:HIS:HE1	2.07	0.67
1:N:301:PRO:O	2:V:749:GLU:HB3	1.94	0.67
2:Q:746:LYS:O	2:Q:749:GLU:HB2	1.95	0.67
2:1:758:LYS:HG3	2:1:759:ASN:OD1	1.94	0.67
1:A:102:THR:HG22	1:A:103:PRO:HD2	1.77	0.67
1:A:129:LEU:HD11	1:A:347:LEU:HD21	1.76	0.67
1:D:71:TYR:CE2	1:D:97:TYR:CD2	2.82	0.67
1:D:304:GLU:OE2	3:D:501:GLN:HB3	1.94	0.67
1:E:302:GLY:O	2:W:750:GLY:HA3	1.95	0.67
1:G:303:TYR:CE1	2:T:753:ALA:HB1	2.30	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:379:GLU:HA	1:L:382:GLU:OE1	1.95	0.67
1:M:203:GLY:O	1:M:204:ALA:C	2.36	0.67
2:2:748:LEU:HD13	2:2:748:LEU:C	2.19	0.67
1:A:206:ARG:HH11	1:A:206:ARG:CG	2.06	0.67
1:B:129:LEU:HD13	1:B:131:PRO:HG3	1.75	0.67
1:B:183:ILE:CD1	1:B:199:PHE:HB3	2.24	0.67
1:D:27:ASP:C	1:D:27:ASP:OD2	2.38	0.67
1:E:176:LEU:HB2	1:E:183:ILE:HD11	1.77	0.67
1:H:112:LEU:HD22	1:H:116:LEU:HD11	1.77	0.67
1:I:258:PHE:HE1	1:I:332:VAL:HG22	1.59	0.67
2:O:756:ARG:HG3	2:O:757:TYR:CD1	2.30	0.67
2:2:752:ASN:HA	2:2:755:PHE:CD2	2.30	0.67
1:C:329:SER:O	1:C:331:ARG:HG2	1.94	0.66
1:G:98:ASN:ND2	1:G:103:PRO:O	2.28	0.66
1:K:56:SER:HB3	1:N:156:TYR:CE2	2.29	0.66
1:N:320:ILE:HA	1:N:333:GLU:O	1.94	0.66
1:A:134:GLU:HG3	1:A:243:GLY:O	1.95	0.66
1:B:391:THR:C	1:B:393:ALA:H	2.02	0.66
1:D:329:SER:O	1:D:330:THR:C	2.38	0.66
1:G:84:ALA:HB2	1:G:88:LYS:HG2	1.77	0.66
1:G:302:GLY:O	1:G:304:GLU:N	2.28	0.66
1:I:214:PHE:CE2	1:I:218:VAL:HG21	2.31	0.66
1:J:58:GLU:HG2	1:J:416:HIS:CD2	2.30	0.66
1:K:52:PHE:HD2	1:K:53:ASP:N	1.93	0.66
1:K:372:ILE:HD13	1:K:373:TYR:H	1.59	0.66
1:L:368:ILE:HG21	1:L:372:ILE:HG23	1.77	0.66
1:N:319:LEU:HD22	1:N:320:ILE:HD13	1.75	0.66
1:A:85:GLU:OE1	1:A:85:GLU:CA	2.38	0.66
1:B:27:ASP:OD1	1:B:33:LYS:HG3	1.95	0.66
1:D:23:LEU:O	1:D:34:ASN:HB2	1.94	0.66
1:D:189:GLU:OE1	3:D:501:GLN:NE2	2.28	0.66
1:D:369:ASP:CG	1:D:370:ARG:H	2.02	0.66
1:E:189:GLU:HB2	1:E:194:GLN:HG2	1.77	0.66
1:H:113:LYS:O	1:H:117:LYS:HG3	1.95	0.66
1:J:422:GLU:O	1:J:426:ASP:HB2	1.94	0.66
1:K:30:GLY:HA2	1:K:342:ASN:ND2	2.09	0.66
1:K:153:LYS:HA	1:K:192:PRO:HB3	1.77	0.66
1:N:168:CYS:C	1:N:170:ARG:N	2.49	0.66
1:N:315:ASN:O	1:N:318:PRO:HD3	1.95	0.66
1:A:96:ILE:HG22	1:A:104:PHE:HB2	1.77	0.66
1:A:132:GLU:HB2	1:A:245:HIS:HB2	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:20:TYR:OH	1:C:36:GLU:HB2	1.95	0.66
1:K:152:ASP:C	1:K:152:ASP:OD2	2.37	0.66
1:K:168:CYS:O	1:K:172:ILE:HD13	1.96	0.66
1:K:246:CYS:SG	1:K:337:VAL:HG21	2.36	0.66
1:M:182:GLU:O	1:M:199:PHE:HB3	1.96	0.66
1:N:96:ILE:HG22	1:N:104:PHE:CB	2.25	0.66
2:P:751:GLN:O	2:P:754:HIS:HB3	1.94	0.66
1:C:303:TYR:O	1:C:305:ALA:N	2.28	0.66
1:E:392:LEU:O	1:E:395:ALA:HB3	1.96	0.66
1:F:109:ARG:HA	1:F:344:TYR:HD2	1.60	0.66
1:M:60:PHE:HB3	2:T:758:LYS:HG3	1.77	0.66
1:M:172:ILE:HD13	1:M:218:VAL:HG13	1.76	0.66
1:M:351:LEU:HD12	1:M:351:LEU:O	1.94	0.66
2:R:753:ALA:O	2:R:756:ARG:HG2	1.95	0.66
1:A:18:VAL:HG21	1:A:79:ILE:HD11	1.78	0.66
1:A:54:GLY:HA3	1:A:68:MET:HE2	1.75	0.66
1:C:44:LYS:HE2	1:C:49:LYS:O	1.95	0.66
1:D:52:PHE:O	1:D:67:ASP:HA	1.94	0.66
1:D:96:ILE:N	1:D:96:ILE:HD12	2.09	0.66
1:F:159:LEU:O	1:F:161:PRO:HD3	1.96	0.66
1:G:127:PHE:CD2	1:G:351:LEU:HD13	2.30	0.66
1:H:60:PHE:HD2	2:2:758:LYS:CG	2.09	0.66
1:H:293:VAL:HG11	1:H:428:PHE:CD2	2.31	0.66
1:J:112:LEU:HD11	1:J:347:LEU:HD12	1.76	0.66
1:K:24:GLN:OE1	1:K:32:ILE:HD11	1.95	0.66
1:L:69:TYR:HB3	1:L:71:TYR:CE1	2.28	0.66
1:N:127:PHE:CE1	1:N:351:LEU:HD13	2.30	0.66
1:B:317:SER:CB	1:B:373:TYR:HE1	2.06	0.66
1:C:91:ARG:NH2	1:C:93:ILE:HD11	2.10	0.66
1:E:280:LYS:HD3	1:E:362:LEU:CD2	2.26	0.66
1:F:311:TRP:NE1	1:F:365:PRO:HD2	2.10	0.66
1:I:113:LYS:CA	1:I:116:LEU:HD12	2.25	0.66
1:K:351:LEU:HD11	1:K:355:LEU:HD21	1.77	0.66
1:L:115:ILE:CG2	1:L:351:LEU:HD22	2.25	0.66
1:L:392:LEU:HD12	1:L:392:LEU:O	1.96	0.66
1:M:53:ASP:O	1:M:56:SER:OG	2.14	0.66
1:M:240:ASN:HB2	2:U:757:TYR:OH	1.96	0.66
1:N:231:PHE:O	1:N:339:PRO:HG2	1.96	0.66
1:B:9:ILE:CG2	1:B:77:PHE:CD2	2.79	0.66
1:C:58:GLU:OE2	1:C:416:HIS:ND1	2.29	0.66
1:H:281:HIS:O	1:H:285:PHE:CD2	2.48	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:318:PRO:O	1:I:335:ARG:HD3	1.96	0.66
1:N:48:ASN:OD1	1:N:71:TYR:CD2	2.49	0.66
1:N:259:PHE:HZ	1:N:261:GLU:HG3	1.60	0.66
1:B:312:SER:OG	1:B:315:ASN:HB2	1.95	0.66
1:D:22:ARG:HH22	1:H:170:ARG:NH2	1.94	0.66
1:F:436:GLU:O	1:F:440:TYR:CD2	2.49	0.66
1:H:91:ARG:NE	1:H:93:ILE:HD11	2.10	0.66
1:H:244:MET:CE	1:H:341:ALA:HB3	2.24	0.66
1:H:252:LYS:HG3	1:H:252:LYS:O	1.95	0.66
1:H:302:GLY:HA2	1:H:316:ARG:HH22	1.61	0.66
1:I:208:CYS:O	1:I:212:GLN:HG2	1.96	0.66
1:J:319:LEU:HD13	1:J:388:LEU:HD11	1.78	0.66
1:K:163:ASP:OD2	1:K:167:ASN:CB	2.44	0.66
1:K:368:ILE:HD13	1:K:385:ILE:HD13	1.76	0.66
1:L:35:VAL:CG1	1:L:70:LEU:CD2	2.70	0.66
1:L:48:ASN:OD1	1:L:71:TYR:HA	1.96	0.66
1:M:196:GLU:C	1:M:197:ILE:HD12	2.21	0.66
2:S:751:GLN:CB	2:S:755:PHE:HE1	2.08	0.66
1:A:289:THR:HB	1:A:337:VAL:HG13	1.78	0.66
1:B:35:VAL:HG12	1:E:157:PHE:CE2	2.31	0.66
1:B:259:PHE:CZ	1:B:261:GLU:HG3	2.31	0.66
1:C:281:HIS:CE1	1:C:404:VAL:HG11	2.31	0.66
1:C:316:ARG:HB3	1:C:316:ARG:NH1	2.10	0.66
1:D:22:ARG:NH2	1:H:170:ARG:HH22	1.94	0.66
1:D:221:ILE:O	1:D:224:LYS:N	2.29	0.66
1:E:316:ARG:HD2	1:E:371:ASN:ND2	2.11	0.66
1:E:429:ARG:NH2	1:F:300:VAL:HG22	2.11	0.66
1:H:18:VAL:HG11	1:H:21:ILE:HD11	1.77	0.66
1:H:259:PHE:HE1	1:H:266:GLN:HG2	1.59	0.66
1:J:95:ASP:OD1	1:J:109:ARG:HD3	1.95	0.66
1:J:124:PHE:HB3	1:J:251:PHE:O	1.96	0.66
1:K:159:LEU:HD13	1:K:159:LEU:C	2.20	0.66
1:M:214:PHE:CZ	1:M:218:VAL:HG21	2.31	0.66
1:M:240:ASN:ND2	1:M:241:GLY:H	1.94	0.66
1:M:320:ILE:N	1:M:320:ILE:HD12	2.11	0.66
1:N:14:LYS:HG2	1:N:15:GLU:N	2.10	0.66
1:N:22:ARG:HG2	1:N:22:ARG:NH1	2.10	0.66
2:W:752:ASN:O	2:W:756:ARG:HD2	1.95	0.66
1:B:191:ALA:HB2	1:B:240:ASN:HB2	1.78	0.65
1:D:54:GLY:C	1:D:56:SER:H	2.04	0.65
1:F:82:TRP:NE1	1:F:175:GLU:OE2	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:317:SER:HB2	1:G:373:TYR:CE1	2.32	0.65
1:H:289:THR:C	1:H:291:PRO:HD3	2.21	0.65
1:I:315:ASN:O	1:I:318:PRO:HD3	1.93	0.65
1:B:441:MET:HE2	1:D:228:HIS:CE1	2.31	0.65
1:C:377:LYS:HA	1:C:380:ARG:NH1	2.10	0.65
1:C:439:GLN:NE2	2:O:759:ASN:O	2.29	0.65
1:D:78:VAL:CG2	1:D:91:ARG:NH1	2.59	0.65
1:E:68:MET:HG3	1:E:97:TYR:O	1.96	0.65
1:E:141:ASP:OD1	1:E:145:GLU:O	2.14	0.65
1:H:240:ASN:CG	2:Y:757:TYR:HH	2.03	0.65
1:I:60:PHE:CE2	2:S:758:LYS:HE2	2.30	0.65
1:L:285:PHE:HB2	1:L:349:VAL:CG2	2.25	0.65
1:L:331:ARG:HD3	1:L:331:ARG:N	2.11	0.65
1:B:51:MET:HE1	1:E:325:SER:OG	1.96	0.65
1:B:400:LYS:HA	1:B:414:PHE:HZ	1.60	0.65
1:B:404:VAL:CG2	1:B:405:MET:HE2	2.26	0.65
1:C:52:PHE:CE1	1:C:70:LEU:HD13	2.31	0.65
1:C:309:VAL:HG22	1:C:319:LEU:HD22	1.77	0.65
1:C:314:GLN:O	1:C:315:ASN:HB2	1.97	0.65
1:D:116:LEU:O	1:D:119:MET:HB3	1.96	0.65
1:D:252:LYS:O	1:D:252:LYS:HG3	1.96	0.65
1:E:133:PRO:HD2	1:E:197:ILE:O	1.96	0.65
1:E:250:LEU:HB2	1:E:258:PHE:CE2	2.32	0.65
1:E:328:ILE:HD13	1:E:328:ILE:N	2.11	0.65
1:F:9:ILE:H	1:F:9:ILE:HD12	1.61	0.65
1:G:311:TRP:HB3	1:G:320:ILE:HD13	1.76	0.65
1:K:6:ARG:CZ	1:K:46:LEU:HB2	2.26	0.65
1:K:21:ILE:HG13	1:K:42:LEU:CD2	2.26	0.65
1:M:44:LYS:HG2	1:M:44:LYS:O	1.96	0.65
1:N:114:ARG:NH2	1:N:407:LYS:O	2.29	0.65
1:N:273:HIS:HB3	1:N:357:GLY:O	1.96	0.65
2:Y:746:LYS:C	2:Y:748:LEU:N	2.50	0.65
1:A:127:PHE:CE1	1:A:274:PHE:HZ	2.13	0.65
1:B:169:ARG:NH1	1:N:36:GLU:OE1	2.28	0.65
1:C:6:ARG:HH22	1:C:47:ASP:CG	2.04	0.65
1:F:42:LEU:O	1:F:42:LEU:HD12	1.96	0.65
1:G:390:ALA:HB1	1:I:429:ARG:NH1	2.12	0.65
1:K:21:ILE:HG13	1:K:42:LEU:HD22	1.78	0.65
1:L:194:GLN:HE22	1:L:241:GLY:C	2.04	0.65
1:L:371:ASN:OD1	1:L:373:TYR:HB2	1.97	0.65
2:Z:752:ASN:HA	2:Z:755:PHE:CE2	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:114:ARG:O	1:A:117:LYS:HB2	1.96	0.65
1:B:440:TYR:HD1	1:B:444:TYR:CE2	2.15	0.65
1:C:85:GLU:O	1:C:86:LYS:CB	2.45	0.65
1:C:167:ASN:ND2	1:C:170:ARG:HH12	1.94	0.65
1:E:373:TYR:CG	2:W:746:LYS:N	2.64	0.65
1:F:27:ASP:C	1:F:27:ASP:OD2	2.39	0.65
1:F:77:PHE:CZ	1:F:79:ILE:HD11	2.32	0.65
1:H:33:LYS:HB3	1:J:157:PHE:O	1.96	0.65
1:H:112:LEU:HD22	1:H:116:LEU:HD12	1.78	0.65
1:J:313:ALA:O	1:J:314:GLN:HB2	1.96	0.65
1:L:259:PHE:O	1:L:260:ASP:HB2	1.96	0.65
1:N:316:ARG:CG	1:N:373:TYR:HE1	2.09	0.65
1:A:134:GLU:OE1	3:A:501:GLN:HB3	1.97	0.65
1:B:189:GLU:OE1	1:B:196:GLU:OE1	2.14	0.65
1:B:368:ILE:HG22	1:B:369:ASP:N	2.11	0.65
1:C:109:ARG:HG3	1:C:344:TYR:CE2	2.32	0.65
1:D:1:MET:O	1:D:2:ALA:CB	2.44	0.65
1:I:296:TYR:HB3	1:I:390:ALA:O	1.95	0.65
1:I:404:VAL:C	1:I:407:LYS:HB2	2.21	0.65
1:L:119:MET:HE3	1:L:250:LEU:HD22	1.77	0.65
1:M:378:GLU:O	1:M:382:GLU:HG2	1.96	0.65
1:N:233:PRO:HD2	1:N:294:ASN:HD22	1.60	0.65
1:A:57:ILE:HD11	1:A:96:ILE:HD13	1.78	0.65
1:A:439:GLN:NE2	2:Q:759:ASN:O	2.20	0.65
1:C:6:ARG:O	1:C:10:GLU:HG3	1.97	0.65
1:E:231:PHE:HB2	1:F:444:TYR:OXT	1.97	0.65
1:G:304:GLU:HG2	1:G:335:ARG:NH1	2.11	0.65
1:H:132:GLU:OE2	1:H:333:GLU:OE1	2.15	0.65
1:H:319:LEU:CD2	1:H:319:LEU:O	2.45	0.65
1:H:399:PHE:CE1	1:H:405:MET:HB3	2.30	0.65
1:M:71:TYR:O	1:M:94:CYS:HB3	1.96	0.65
2:Z:749:GLU:CA	2:Z:752:ASN:HB2	2.26	0.65
1:B:275:ILE:CG1	1:B:332:VAL:HG11	2.24	0.65
1:C:151:ASN:ND2	1:C:152:ASP:OD1	2.30	0.65
1:C:167:ASN:HD21	1:C:170:ARG:HH12	1.45	0.65
1:C:308:TYR:CB	1:C:372:ILE:HD12	2.26	0.65
1:C:309:VAL:HG22	1:C:319:LEU:CD2	2.27	0.65
1:D:396:LEU:O	1:D:400:LYS:HG3	1.97	0.65
1:E:83:THR:C	1:E:85:GLU:OE2	2.40	0.65
1:I:311:TRP:CZ3	1:I:322:ILE:HD11	2.32	0.65
1:L:163:ASP:OD1	1:L:167:ASN:OD1	2.14	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X:748:LEU:O	2:X:752:ASN:CB	2.45	0.65
1:B:244:MET:HB2	1:B:339:PRO:HD3	1.79	0.65
1:F:247:ASN:HA	1:F:332:VAL:O	1.96	0.65
1:G:52:PHE:CE1	1:G:68:MET:HB3	2.32	0.65
1:G:55:SER:O	1:G:62:ARG:HB3	1.95	0.65
1:H:164:LEU:HD13	1:H:164:LEU:H	1.61	0.65
1:I:214:PHE:C	1:I:216:LEU:H	2.02	0.65
1:K:268:SER:O	1:K:271:ALA:HB3	1.96	0.65
1:K:322:ILE:HG12	1:K:332:VAL:HG12	1.79	0.65
1:K:439:GLN:OE1	1:K:439:GLN:HA	1.96	0.65
1:N:48:ASN:OD1	1:N:71:TYR:CG	2.50	0.65
1:N:58:GLU:O	1:N:61:VAL:CG2	2.45	0.65
1:B:396:LEU:HD13	1:B:422:GLU:HG2	1.78	0.65
1:D:208:CYS:SG	1:D:343:PRO:C	2.80	0.65
1:E:311:TRP:O	1:E:368:ILE:HD12	1.97	0.65
1:E:399:PHE:HZ	1:E:409:LEU:HD11	1.62	0.65
1:F:221:ILE:O	1:F:221:ILE:HG22	1.97	0.65
1:G:171:ASP:O	1:G:175:GLU:HG3	1.96	0.65
1:G:383:ASN:N	1:G:383:ASN:ND2	2.38	0.65
1:J:285:PHE:HB2	1:J:349:VAL:HG21	1.79	0.65
1:K:139:LYS:HA	1:K:227:LEU:CD2	2.27	0.65
1:L:214:PHE:CZ	1:L:218:VAL:HG21	2.31	0.65
1:N:64:GLU:O	1:N:65:GLU:C	2.38	0.65
1:B:52:PHE:CD1	1:B:70:LEU:HD13	2.32	0.64
1:B:142:GLU:CD	1:B:142:GLU:N	2.56	0.64
1:D:6:ARG:HB2	1:D:7:GLU:OE2	1.97	0.64
1:D:136:PHE:CD2	1:D:194:GLN:HA	2.32	0.64
1:D:372:ILE:HG21	1:D:385:ILE:CD1	2.27	0.64
1:F:311:TRP:CZ2	1:F:367:PRO:HD3	2.32	0.64
1:G:393:ALA:C	1:G:395:ALA:N	2.52	0.64
1:H:324:ALA:O	1:H:325:SER:O	2.15	0.64
1:L:309:VAL:HG23	1:L:386:VAL:O	1.96	0.64
1:M:319:LEU:CD1	1:M:336:SER:HB2	2.28	0.64
1:N:63:ILE:C	1:N:64:GLU:HG2	2.21	0.64
1:N:252:LYS:O	1:N:253:ASN:CB	2.41	0.64
1:A:175:GLU:O	1:A:178:GLU:HG3	1.97	0.64
1:B:129:LEU:HG	1:B:347:LEU:CD2	2.25	0.64
1:E:105:GLU:CG	1:E:106:GLY:N	2.59	0.64
1:E:239:VAL:HA	2:W:757:TYR:HH	1.61	0.64
1:E:282:ALA:HA	1:E:285:PHE:CZ	2.32	0.64
1:F:274:PHE:CA	1:F:358:ILE:HD11	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:402:ASN:OD1	1:F:405:MET:HB2	1.98	0.64
1:H:45:ALA:HA	1:H:50:VAL:HG22	1.78	0.64
1:H:293:VAL:HG23	1:N:440:TYR:OH	1.97	0.64
1:H:337:VAL:HG13	1:H:338:ASP:N	2.11	0.64
1:J:13:VAL:HG21	1:J:42:LEU:HD21	1.78	0.64
1:A:311:TRP:HB3	1:A:320:ILE:HD13	1.79	0.64
1:B:127:PHE:CE1	1:B:351:LEU:HD13	2.32	0.64
1:B:291:PRO:HB2	1:B:421:LYS:HZ1	1.61	0.64
1:B:322:ILE:CD1	1:B:332:VAL:HG12	2.27	0.64
1:C:355:LEU:O	1:C:359:LYS:HB3	1.98	0.64
1:E:96:ILE:HG22	1:E:104:PHE:HB2	1.77	0.64
1:G:295:SER:OG	1:G:338:ASP:OD1	2.15	0.64
1:H:319:LEU:O	1:H:319:LEU:HD22	1.97	0.64
1:I:281:HIS:HD2	1:I:402:ASN:HD21	1.44	0.64
1:J:151:ASN:CG	1:J:227:LEU:HD13	2.22	0.64
1:L:112:LEU:HD13	1:L:205:VAL:CG2	2.27	0.64
1:N:131:PRO:CB	1:N:211:ILE:HD11	2.27	0.64
2:O:758:LYS:HD3	2:O:758:LYS:O	1.98	0.64
2:T:754:HIS:O	2:T:757:TYR:HD1	1.80	0.64
1:B:44:LYS:HE3	1:B:49:LYS:CB	2.27	0.64
1:C:81:PRO:C	1:C:83:THR:H	2.04	0.64
1:E:249:SER:HA	1:E:258:PHE:CE1	2.32	0.64
1:F:172:ILE:O	1:F:176:LEU:HD12	1.95	0.64
1:G:5:THR:O	1:G:8:ASP:N	2.30	0.64
1:G:323:PRO:HG2	1:G:331:ARG:NH2	2.12	0.64
1:H:171:ASP:OD2	1:H:225:HIS:CE1	2.50	0.64
1:I:21:ILE:CD1	1:I:90:ALA:HB3	2.27	0.64
1:L:37:ILE:HD13	1:L:41:GLN:HB2	1.77	0.64
1:L:141:ASP:HB3	1:L:147:THR:HG21	1.78	0.64
1:L:159:LEU:C	1:L:161:PRO:HD3	2.22	0.64
1:L:250:LEU:HG	1:L:274:PHE:HE1	1.63	0.64
2:P:753:ALA:O	2:P:756:ARG:HG2	1.97	0.64
2:T:759:ASN:O	2:T:760:ARG:HG3	1.97	0.64
2:X:747:MET:O	2:X:750:GLY:N	2.30	0.64
1:B:26:THR:O	1:B:108:PRO:HG2	1.97	0.64
1:B:153:LYS:HA	1:B:153:LYS:CE	2.27	0.64
1:C:206:ARG:O	1:C:210:ASP:OD2	2.15	0.64
1:D:243:GLY:CA	1:D:298:ARG:NH1	2.60	0.64
1:F:119:MET:CE	1:F:127:PHE:HB2	2.26	0.64
1:F:250:LEU:HB2	1:F:258:PHE:CE2	2.32	0.64
1:F:359:LYS:NZ	1:F:359:LYS:HB2	2.13	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:246:CYS:SG	1:H:337:VAL:HG11	2.37	0.64
1:I:97:TYR:CZ	1:I:103:PRO:HB3	2.33	0.64
1:K:30:GLY:CA	1:K:342:ASN:HD22	2.10	0.64
1:M:82:TRP:O	1:M:83:THR:HB	1.96	0.64
1:A:240:ASN:N	2:P:757:TYR:OH	2.30	0.64
1:A:370:ARG:O	1:A:371:ASN:HB2	1.97	0.64
1:B:404:VAL:CG2	1:B:405:MET:N	2.59	0.64
1:C:132:GLU:HG2	1:C:198:ASP:OD1	1.97	0.64
1:D:91:ARG:CD	1:D:91:ARG:C	2.70	0.64
1:I:190:VAL:HG21	1:I:240:ASN:OD1	1.96	0.64
1:K:169:ARG:NH1	1:L:36:GLU:OE1	2.30	0.64
1:K:187:HIS:HD2	1:K:188:HIS:O	1.81	0.64
1:L:18:VAL:HG21	1:L:79:ILE:HD12	1.80	0.64
1:N:437:ARG:O	1:N:441:MET:CB	2.45	0.64
1:A:252:LYS:HB2	1:A:252:LYS:NZ	2.12	0.64
1:B:85:GLU:O	1:B:85:GLU:HG3	1.98	0.64
1:B:162:THR:O	1:B:162:THR:CG2	2.46	0.64
1:B:432:VAL:HG23	1:D:237:PHE:HB2	1.79	0.64
1:D:285:PHE:HB3	1:D:405:MET:SD	2.37	0.64
1:E:359:LYS:HB2	1:E:359:LYS:NZ	2.11	0.64
1:F:291:PRO:HG3	1:F:341:ALA:HA	1.78	0.64
1:F:377:LYS:HA	1:F:380:ARG:HH12	1.63	0.64
1:G:150:LEU:HD22	1:G:192:PRO:O	1.97	0.64
1:G:400:LYS:HD3	1:G:418:ILE:HD13	1.77	0.64
1:H:259:PHE:CE1	1:H:266:GLN:HG2	2.32	0.64
1:H:396:LEU:O	1:H:400:LYS:HG3	1.96	0.64
1:I:9:ILE:CD1	1:I:74:LEU:HD12	2.27	0.64
1:I:52:PHE:CE2	1:I:54:GLY:HA2	2.33	0.64
1:J:169:ARG:HD3	1:J:186:SER:HB2	1.80	0.64
1:K:52:PHE:CE2	1:K:54:GLY:HA2	2.33	0.64
1:M:52:PHE:HE1	1:M:70:LEU:HD13	1.57	0.64
2:1:751:GLN:HA	2:1:754:HIS:HB2	1.78	0.64
1:A:27:ASP:O	1:A:108:PRO:HG2	1.98	0.64
1:B:96:ILE:O	1:B:97:TYR:CD1	2.51	0.64
1:B:159:LEU:O	1:B:161:PRO:HD3	1.98	0.64
1:F:419:GLU:O	1:F:423:ILE:HG12	1.98	0.64
1:G:83:THR:HB	1:G:89:VAL:CG2	2.28	0.64
1:G:403:GLU:O	1:G:407:LYS:HG2	1.98	0.64
1:K:139:LYS:HA	1:K:227:LEU:HD22	1.80	0.64
1:L:42:LEU:HD11	1:L:46:LEU:HD11	1.80	0.64
1:M:140:LEU:HD12	1:M:226:GLY:C	2.23	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:273:HIS:CE1	1:M:361:LYS:HA	2.33	0.64
1:M:281:HIS:CE1	1:M:404:VAL:HG11	2.33	0.64
1:N:162:THR:HG22	1:N:163:ASP:N	2.13	0.64
2:T:751:GLN:O	2:T:755:PHE:CD1	2.51	0.64
1:B:281:HIS:HD2	1:B:353:ALA:HB1	1.63	0.64
1:D:400:LYS:CG	1:D:418:ILE:HD11	2.28	0.64
1:E:186:SER:HB3	1:E:197:ILE:HG23	1.78	0.64
1:G:258:PHE:HA	1:G:268:SER:OG	1.96	0.64
1:H:164:LEU:HD23	1:H:165:GLY:N	2.11	0.64
1:I:109:ARG:HA	1:I:344:TYR:CD2	2.32	0.64
1:I:349:VAL:HB	1:I:405:MET:SD	2.38	0.64
1:K:271:ALA:O	1:K:275:ILE:HD13	1.97	0.64
1:N:107:ASP:HB3	1:N:110:ASN:HB2	1.79	0.64
1:N:171:ASP:HB3	1:N:225:HIS:HE1	1.62	0.64
1:D:300:VAL:HG12	1:D:301:PRO:CD	2.28	0.64
1:D:395:ALA:O	1:D:398:GLU:N	2.30	0.64
1:J:73:ASP:HB3	1:J:76:THR:HG23	1.80	0.64
1:K:252:LYS:O	1:K:252:LYS:HG2	1.98	0.64
1:L:351:LEU:C	1:L:351:LEU:HD23	2.22	0.64
1:N:9:ILE:CG1	1:N:74:LEU:HD12	2.27	0.64
1:N:51:MET:O	1:N:52:PHE:HB3	1.96	0.64
1:A:138:PHE:HB2	1:A:228:HIS:HB3	1.78	0.63
1:A:288:VAL:O	1:A:291:PRO:HD3	1.99	0.63
1:D:314:GLN:O	1:D:315:ASN:CB	2.46	0.63
1:E:85:GLU:CD	1:E:85:GLU:N	2.55	0.63
1:G:107:ASP:HB3	1:G:110:ASN:HB2	1.80	0.63
1:G:169:ARG:HD2	1:G:186:SER:OG	1.98	0.63
1:H:232:MET:HB2	1:N:440:TYR:O	1.99	0.63
1:J:238:GLY:O	2:2:757:TYR:OH	2.16	0.63
1:L:265:LEU:O	1:L:326:ARG:NH1	2.31	0.63
1:M:377:LYS:O	1:M:381:MET:HB2	1.97	0.63
1:B:319:LEU:O	1:B:319:LEU:HD22	1.99	0.63
1:C:22:ARG:HD3	1:I:159:LEU:HD21	1.79	0.63
1:D:9:ILE:HG13	1:D:74:LEU:CD1	2.29	0.63
1:D:37:ILE:HG22	1:H:185:ALA:HB2	1.79	0.63
1:D:48:ASN:ND2	1:D:72:PRO:HD2	2.13	0.63
1:D:54:GLY:HA3	1:D:68:MET:HE2	1.79	0.63
1:F:359:LYS:HG2	1:F:360:ASN:N	2.13	0.63
1:H:190:VAL:HG23	1:H:191:ALA:H	1.61	0.63
1:L:139:LYS:HD2	1:L:149:GLU:OE2	1.99	0.63
1:L:264:ASP:C	1:L:265:LEU:HD12	2.23	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:84:ALA:O	1:A:85:GLU:HB2	1.97	0.63
1:B:19:LYS:HG3	1:B:86:LYS:O	1.99	0.63
1:C:9:ILE:HG23	1:C:77:PHE:CE1	2.33	0.63
1:D:1:MET:O	1:D:2:ALA:HB3	1.98	0.63
1:D:321:ARG:O	1:D:323:PRO:HD3	1.98	0.63
1:E:289:THR:C	1:E:291:PRO:HD3	2.23	0.63
1:E:418:ILE:HG22	1:E:422:GLU:OE2	1.99	0.63
1:F:127:PHE:CD2	1:F:351:LEU:HD13	2.33	0.63
1:F:232:MET:HE2	1:F:294:ASN:ND2	2.11	0.63
1:F:425:TRP:O	1:F:429:ARG:HG2	1.98	0.63
1:I:258:PHE:CE1	1:I:332:VAL:HG22	2.33	0.63
1:I:259:PHE:HE1	1:I:266:GLN:HG2	1.64	0.63
1:J:6:ARG:CZ	1:J:46:LEU:CB	2.76	0.63
1:L:376:SER:O	1:L:380:ARG:HD2	1.97	0.63
1:M:243:GLY:HA2	1:M:298:ARG:NH1	2.13	0.63
1:N:83:THR:HG21	1:N:89:VAL:CG2	2.28	0.63
1:B:264:ASP:O	1:B:265:LEU:HB2	1.97	0.63
1:D:237:PHE:C	1:D:239:VAL:H	2.06	0.63
1:E:166:GLU:OE1	1:E:167:ASN:N	2.32	0.63
1:F:85:GLU:CD	1:F:85:GLU:H	2.05	0.63
1:G:127:PHE:CE2	1:G:351:LEU:HD13	2.33	0.63
1:J:183:ILE:O	1:J:183:ILE:HG22	1.98	0.63
1:J:302:GLY:HA2	2:2:750:GLY:CA	2.27	0.63
1:K:189:GLU:CB	1:K:194:GLN:HB3	2.29	0.63
1:L:406:VAL:HG22	1:L:414:PHE:CE1	2.34	0.63
1:M:380:ARG:HG2	1:M:380:ARG:O	1.97	0.63
1:N:414:PHE:HD2	1:N:415:GLU:N	1.96	0.63
2:R:751:GLN:O	2:R:755:PHE:CD1	2.52	0.63
2:Z:748:LEU:HD13	2:Z:748:LEU:C	2.24	0.63
2:2:747:MET:HE2	2:2:751:GLN:NE2	2.13	0.63
1:A:79:ILE:HD13	1:A:90:ALA:HB2	1.80	0.63
1:B:377:LYS:HA	1:B:380:ARG:NH1	2.13	0.63
1:C:125:SER:OG	1:C:126:ASP:OD2	2.14	0.63
1:C:161:PRO:O	1:C:162:THR:O	2.17	0.63
1:D:83:THR:HG21	1:D:89:VAL:CG2	2.29	0.63
1:I:258:PHE:HA	1:I:271:ALA:HB2	1.81	0.63
1:L:269:GLU:O	1:L:273:HIS:CD2	2.52	0.63
1:M:372:ILE:CG2	1:M:385:ILE:HD13	2.29	0.63
1:N:199:PHE:HZ	1:N:211:ILE:HG12	1.64	0.63
1:A:8:ASP:O	1:A:12:LEU:HD12	1.99	0.63
1:E:414:PHE:O	1:E:418:ILE:HD13	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:377:LYS:HA	1:F:380:ARG:NH1	2.14	0.63
1:H:362:LEU:N	1:H:362:LEU:HD12	2.14	0.63
1:I:131:PRO:HB2	1:I:133:PRO:HD3	1.79	0.63
1:K:443:GLN:HB3	1:K:444:TYR:CE2	2.33	0.63
1:L:91:ARG:HD2	1:L:91:ARG:O	1.98	0.63
1:N:202:ALA:HB3	1:N:207:SER:OG	1.98	0.63
1:N:264:ASP:C	1:N:265:LEU:HD12	2.24	0.63
1:N:302:GLY:HA3	2:V:749:GLU:CB	2.28	0.63
1:C:63:ILE:HG22	1:C:64:GLU:HG2	1.81	0.63
1:C:127:PHE:HD1	1:C:250:LEU:HG	1.64	0.63
1:D:134:GLU:OE2	1:D:189:GLU:OE1	2.16	0.63
1:D:160:ALA:HB2	1:D:169:ARG:HH12	1.63	0.63
1:E:256:ASN:HD22	1:E:328:ILE:HA	1.64	0.63
1:F:436:GLU:O	1:F:440:TYR:HD2	1.80	0.63
1:G:212:GLN:O	1:G:213:THR:C	2.42	0.63
1:I:157:PHE:O	1:I:158:ASP:C	2.42	0.63
1:K:89:VAL:HG21	1:N:170:ARG:NH2	2.14	0.63
1:K:376:SER:H	1:K:379:GLU:HB3	1.63	0.63
1:L:281:HIS:O	1:L:285:PHE:CD2	2.52	0.63
1:M:295:SER:O	1:M:299:LEU:HD23	1.99	0.63
1:N:119:MET:HE1	1:N:127:PHE:CB	2.27	0.63
1:A:371:ASN:HB3	1:A:374:VAL:CG1	2.28	0.63
1:B:239:VAL:HG13	2:Z:757:TYR:CE2	2.34	0.63
1:B:240:ASN:N	2:Z:757:TYR:OH	2.32	0.63
1:E:140:LEU:HD12	1:E:226:GLY:O	1.98	0.63
1:G:108:PRO:O	1:G:344:TYR:HB3	1.99	0.63
1:H:150:LEU:HD13	1:H:192:PRO:O	1.99	0.63
1:H:164:LEU:CD2	1:H:165:GLY:N	2.58	0.63
1:I:171:ASP:CG	1:I:225:HIS:NE2	2.56	0.63
1:J:307:CYS:O	1:J:388:LEU:HG	1.99	0.63
1:K:170:ARG:HH21	1:L:22:ARG:NH2	1.97	0.63
1:L:77:PHE:O	1:L:78:VAL:HG23	1.99	0.63
1:N:162:THR:CG2	1:N:164:LEU:HD13	2.27	0.63
2:Z:746:LYS:O	2:Z:749:GLU:N	2.31	0.63
1:B:170:ARG:NH2	1:N:89:VAL:HG21	2.14	0.63
1:C:208:CYS:SG	1:C:343:PRO:O	2.57	0.63
1:F:52:PHE:HE1	1:F:70:LEU:HD13	1.64	0.63
1:F:373:TYR:O	2:O:746:LYS:HD2	1.97	0.63
1:G:27:ASP:O	1:G:108:PRO:HG2	1.99	0.63
1:G:300:VAL:HG22	1:I:430:THR:HG22	1.80	0.63
1:G:393:ALA:C	1:G:395:ALA:H	2.06	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:35:VAL:HG13	1:H:35:VAL:O	1.98	0.63
1:I:371:ASN:O	1:I:374:VAL:HG22	1.98	0.63
1:J:402:ASN:CG	1:J:405:MET:HG2	2.24	0.63
1:L:301:PRO:CB	2:S:746:LYS:HD3	2.29	0.63
1:L:303:TYR:CE1	2:S:753:ALA:CB	2.81	0.63
1:N:19:LYS:HA	1:N:39:VAL:HG12	1.80	0.63
1:N:371:ASN:ND2	1:N:371:ASN:N	2.46	0.63
1:A:249:SER:HB2	1:A:251:PHE:HE1	1.63	0.62
1:A:399:PHE:CZ	1:A:409:LEU:HD12	2.27	0.62
1:B:360:ASN:O	1:B:362:LEU:CD1	2.46	0.62
1:C:29:LEU:HD23	1:C:421:LYS:HE2	1.81	0.62
1:D:36:GLU:HG3	1:H:186:SER:OG	1.99	0.62
1:D:223:ARG:HH11	1:D:223:ARG:HG3	1.64	0.62
1:E:316:ARG:HH22	1:E:372:ILE:HG12	1.64	0.62
1:G:119:MET:HE1	1:G:127:PHE:N	2.14	0.62
1:G:129:LEU:HD11	1:G:347:LEU:HD21	1.80	0.62
1:H:21:ILE:HD12	1:H:90:ALA:HB3	1.80	0.62
1:H:56:SER:HB3	1:J:156:TYR:CE2	2.34	0.62
1:H:102:THR:HG22	1:H:103:PRO:O	1.99	0.62
1:I:240:ASN:ND2	2:Q:757:TYR:OH	2.32	0.62
1:M:73:ASP:HB3	1:M:76:THR:HG23	1.79	0.62
1:N:119:MET:CE	1:N:127:PHE:HB2	2.27	0.62
2:S:753:ALA:CA	2:S:756:ARG:HG2	2.29	0.62
1:B:62:ARG:CD	2:W:754:HIS:NE2	2.62	0.62
1:B:145:GLU:HA	1:B:145:GLU:OE2	1.98	0.62
1:C:164:LEU:O	1:C:168:CYS:CB	2.44	0.62
1:E:239:VAL:CA	2:W:757:TYR:OH	2.46	0.62
1:E:286:THR:HG22	1:E:296:TYR:OH	1.99	0.62
1:G:119:MET:HE1	1:G:126:ASP:C	2.24	0.62
1:G:156:TYR:O	1:G:188:HIS:O	2.18	0.62
1:H:189:GLU:HB2	1:H:194:GLN:HG2	1.81	0.62
1:I:52:PHE:CD1	1:I:70:LEU:HD13	2.35	0.62
1:I:316:ARG:CG	2:Q:747:MET:HG2	2.29	0.62
1:J:127:PHE:HZ	1:J:248:LEU:HD22	1.63	0.62
1:K:17:ASN:CG	1:K:17:ASN:O	2.42	0.62
1:K:28:ILE:HD11	1:K:413:LEU:HD22	1.81	0.62
1:M:140:LEU:O	1:M:147:THR:HG23	1.99	0.62
1:M:380:ARG:HG2	1:M:385:ILE:HB	1.82	0.62
1:N:136:PHE:CE2	1:N:194:GLN:HB2	2.34	0.62
1:A:9:ILE:HG21	1:A:92:PHE:HZ	1.63	0.62
1:A:405:MET:C	1:A:407:LYS:H	2.07	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3:LYS:CA	1:B:75:ASN:OD1	2.47	0.62
1:D:63:ILE:HD12	2:Y:747:MET:HE3	1.79	0.62
1:G:120:GLU:HA	1:G:124:PHE:O	2.00	0.62
1:G:253:ASN:HB2	1:G:255:VAL:HG13	1.81	0.62
1:I:20:TYR:O	1:I:21:ILE:HD13	1.98	0.62
1:J:19:LYS:HA	1:J:39:VAL:CG1	2.29	0.62
1:J:212:GLN:OE1	1:J:343:PRO:HG2	1.99	0.62
1:N:19:LYS:HA	1:N:39:VAL:CG1	2.29	0.62
1:N:96:ILE:HD13	1:N:107:ASP:OD2	1.99	0.62
2:W:752:ASN:HA	2:W:755:PHE:CD2	2.35	0.62
1:A:325:SER:OG	1:G:51:MET:HE1	1.99	0.62
1:D:11:LYS:HG2	1:D:15:GLU:OE1	1.98	0.62
1:D:97:TYR:CZ	1:D:103:PRO:HB3	2.34	0.62
1:F:46:LEU:C	1:F:48:ASN:H	2.06	0.62
1:J:378:GLU:H	1:J:378:GLU:CD	2.08	0.62
1:L:35:VAL:HG11	1:L:70:LEU:HD21	1.78	0.62
1:M:134:GLU:O	1:M:242:SER:HB2	1.99	0.62
1:A:172:ILE:CD1	1:A:218:VAL:HA	2.28	0.62
1:C:220:THR:HG22	1:C:221:ILE:N	2.15	0.62
1:D:223:ARG:O	1:D:226:GLY:N	2.33	0.62
1:E:271:ALA:O	1:E:275:ILE:HG12	2.00	0.62
1:E:313:ALA:O	1:E:314:GLN:HB2	1.98	0.62
1:F:115:ILE:CG2	1:F:351:LEU:HD23	2.30	0.62
1:H:270:THR:HG22	1:H:358:ILE:HG21	1.81	0.62
1:I:141:ASP:HB2	1:I:142:GLU:OE2	1.99	0.62
1:L:96:ILE:C	1:L:97:TYR:HD1	2.07	0.62
1:L:96:ILE:N	1:L:96:ILE:HD12	2.15	0.62
1:L:192:PRO:HD3	2:S:757:TYR:CD2	2.33	0.62
1:M:167:ASN:ND2	1:M:170:ARG:NH1	2.47	0.62
1:C:186:SER:O	1:E:36:GLU:HG3	2.00	0.62
1:G:24:GLN:CG	1:G:32:ILE:HD11	2.21	0.62
1:H:183:ILE:CD1	1:H:183:ILE:O	2.48	0.62
1:J:380:ARG:HD2	1:J:385:ILE:HG21	1.82	0.62
1:K:212:GLN:NE2	1:K:343:PRO:HG2	2.13	0.62
1:K:273:HIS:C	1:K:357:GLY:O	2.43	0.62
1:N:160:ALA:N	1:N:161:PRO:HD2	2.13	0.62
1:N:281:HIS:O	1:N:284:SER:N	2.32	0.62
1:N:349:VAL:O	1:N:352:ALA:HB3	1.98	0.62
2:P:754:HIS:HA	2:P:757:TYR:CE1	2.35	0.62
1:A:258:PHE:CD2	1:A:271:ALA:HB2	2.35	0.62
1:C:137:LEU:HA	1:C:228:HIS:O	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:7:GLU:H	1:D:7:GLU:CD	2.08	0.62
1:D:91:ARG:HD2	1:D:91:ARG:O	1.99	0.62
1:D:139:LYS:HG3	1:D:150:LEU:O	2.00	0.62
1:D:363:GLU:H	1:D:363:GLU:CD	2.07	0.62
1:E:138:PHE:O	1:E:227:LEU:HB3	1.98	0.62
1:H:9:ILE:HG13	1:H:74:LEU:CD1	2.30	0.62
1:H:78:VAL:HB	1:H:91:ARG:NH1	2.15	0.62
1:J:240:ASN:HD22	1:J:303:TYR:HD1	1.45	0.62
1:K:157:PHE:O	1:K:158:ASP:O	2.16	0.62
1:L:9:ILE:O	1:L:13:VAL:HG23	2.00	0.62
1:L:93:ILE:C	1:L:94:CYS:SG	2.82	0.62
1:M:322:ILE:CG2	1:M:326:ARG:NH2	2.63	0.62
2:O:753:ALA:HA	2:O:756:ARG:CG	2.28	0.62
1:B:162:THR:HG23	1:B:170:ARG:NH1	2.13	0.62
1:E:119:MET:SD	1:E:126:ASP:O	2.57	0.62
1:E:269:GLU:O	1:E:273:HIS:CD2	2.53	0.62
1:E:429:ARG:O	1:F:297:LYS:HD2	2.00	0.62
1:G:156:TYR:CD2	1:G:157:PHE:HD1	2.18	0.62
1:G:323:PRO:CG	1:G:331:ARG:HH22	2.11	0.62
1:G:368:ILE:HG12	1:G:372:ILE:HG21	1.81	0.62
1:I:51:MET:HE1	1:L:325:SER:OG	1.99	0.62
1:I:182:GLU:CD	1:I:200:LYS:HD2	2.25	0.62
1:K:102:THR:HG22	1:K:103:PRO:HD2	1.80	0.62
1:K:129:LEU:HD12	1:K:347:LEU:HD11	1.82	0.62
1:L:80:PHE:HB3	1:L:82:TRP:CZ3	2.35	0.62
1:L:315:ASN:HD21	1:L:372:ILE:HD12	1.64	0.62
1:A:303:TYR:O	1:A:304:GLU:HB2	2.00	0.62
1:C:216:LEU:HD11	1:I:159:LEU:HD13	1.82	0.62
1:D:244:MET:HB2	1:D:339:PRO:HD3	1.82	0.62
1:E:141:ASP:OD2	1:E:143:LYS:HB2	1.99	0.62
1:E:318:PRO:HB2	1:E:320:ILE:O	1.99	0.62
1:G:68:MET:HG3	1:G:97:TYR:O	2.00	0.62
1:H:129:LEU:HD23	1:H:130:GLY:H	1.65	0.62
1:L:391:THR:C	1:L:393:ALA:N	2.51	0.62
1:N:23:LEU:CD1	1:N:70:LEU:HD23	2.29	0.62
1:N:231:PHE:HB3	1:N:339:PRO:HB2	1.81	0.62
2:S:754:HIS:N	2:S:757:TYR:HE1	1.97	0.62
1:A:96:ILE:HD12	1:A:107:ASP:CB	2.29	0.62
1:C:170:ARG:HE	1:E:22:ARG:NH2	1.98	0.62
1:D:52:PHE:CE1	1:D:70:LEU:CD1	2.82	0.62
1:F:19:LYS:HB2	1:F:87:GLY:HA3	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:77:PHE:O	1:F:78:VAL:HG23	2.00	0.62
1:F:235:PRO:HG2	1:F:236:LEU:H	1.63	0.62
1:F:304:GLU:OE2	3:F:501:GLN:HG3	2.00	0.62
1:F:376:SER:C	1:F:380:ARG:NH2	2.58	0.62
1:G:63:ILE:O	1:G:64:GLU:HG3	1.99	0.62
1:G:138:PHE:HE1	1:G:230:THR:HG21	1.64	0.62
1:H:68:MET:SD	1:H:96:ILE:HG22	2.40	0.62
1:H:139:LYS:HG3	1:H:227:LEU:CD2	2.29	0.62
1:I:418:ILE:HG22	1:I:422:GLU:OE2	1.99	0.62
1:K:32:ILE:HD13	1:K:216:LEU:HD22	1.82	0.62
1:K:112:LEU:HD22	1:K:116:LEU:HD21	1.81	0.62
1:K:370:ARG:HD3	1:L:64:GLU:OE2	1.99	0.62
1:K:372:ILE:HA	1:K:375:MET:SD	2.40	0.62
1:L:92:PHE:O	1:L:94:CYS:SG	2.58	0.62
1:L:360:ASN:O	1:L:361:LYS:HB2	1.99	0.62
1:M:256:ASN:HD22	1:M:328:ILE:HA	1.64	0.62
1:N:237:PHE:C	1:N:239:VAL:H	2.07	0.62
2:S:754:HIS:CA	2:S:757:TYR:CE1	2.79	0.62
2:Z:748:LEU:O	2:Z:752:ASN:HB2	2.00	0.62
1:A:289:THR:O	1:A:341:ALA:HB2	1.99	0.61
1:B:69:TYR:CD1	1:B:99:PRO:HA	2.35	0.61
1:C:85:GLU:O	1:C:86:LYS:HB3	2.00	0.61
1:D:51:MET:O	1:D:52:PHE:HB3	1.98	0.61
1:D:168:CYS:O	1:D:172:ILE:CD1	2.47	0.61
1:E:302:GLY:O	2:W:750:GLY:CA	2.47	0.61
1:I:3:LYS:HE2	1:I:4:TYR:CE2	2.35	0.61
1:I:160:ALA:HB1	1:I:161:PRO:HD2	1.81	0.61
1:J:160:ALA:O	1:J:162:THR:N	2.33	0.61
1:J:315:ASN:HB3	1:J:318:PRO:HB3	1.81	0.61
1:K:34:ASN:C	1:K:34:ASN:HD22	2.08	0.61
1:N:25:PHE:C	1:N:25:PHE:CD1	2.78	0.61
1:A:368:ILE:HG12	1:A:385:ILE:HD11	1.81	0.61
1:A:441:MET:HE3	1:C:138:PHE:HD1	1.64	0.61
1:B:3:LYS:HB3	1:B:75:ASN:OD1	2.00	0.61
1:B:141:ASP:OD2	1:B:142:GLU:N	2.33	0.61
1:C:170:ARG:HE	1:E:22:ARG:HH22	1.47	0.61
1:D:221:ILE:O	1:D:224:LYS:HB3	1.99	0.61
1:F:406:VAL:HG13	1:F:414:PHE:CE1	2.34	0.61
1:G:83:THR:CB	1:G:89:VAL:HB	2.31	0.61
1:G:167:ASN:ND2	1:G:170:ARG:HE	1.98	0.61
1:H:60:PHE:CD2	2:2:758:LYS:HG2	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:400:LYS:HG2	1:I:418:ILE:HG12	1.81	0.61
1:J:160:ALA:HB2	1:J:169:ARG:NH2	2.11	0.61
1:K:138:PHE:O	1:K:228:HIS:N	2.25	0.61
1:L:191:ALA:HB2	2:S:757:TYR:CE2	2.31	0.61
1:M:83:THR:O	1:M:88:LYS:HG2	2.00	0.61
1:M:259:PHE:CE2	1:M:327:GLY:HA2	2.35	0.61
1:N:5:THR:H	1:N:8:ASP:HB2	1.65	0.61
1:N:328:ILE:HG13	1:N:329:SER:N	2.14	0.61
1:A:162:THR:C	1:A:164:LEU:H	2.08	0.61
1:A:163:ASP:CB	1:G:83:THR:HG22	2.21	0.61
1:B:321:ARG:HB3	1:B:333:GLU:HB3	1.81	0.61
1:C:113:LYS:O	1:C:116:LEU:HB2	2.00	0.61
1:D:64:GLU:O	1:D:65:GLU:C	2.43	0.61
1:E:133:PRO:HB3	1:E:244:MET:HG3	1.83	0.61
1:H:53:ASP:OD1	1:H:62:ARG:NH2	2.33	0.61
1:H:199:PHE:N	1:H:199:PHE:HD1	1.97	0.61
1:H:264:ASP:O	1:H:265:LEU:HB2	2.00	0.61
1:I:208:CYS:HB3	1:I:343:PRO:HB3	1.81	0.61
1:K:27:ASP:C	1:K:27:ASP:OD2	2.42	0.61
1:L:258:PHE:HA	1:L:268:SER:OG	2.00	0.61
1:N:20:TYR:OH	1:N:36:GLU:HG3	2.00	0.61
1:A:36:GLU:HG3	1:F:186:SER:O	1.99	0.61
1:A:105:GLU:HG3	1:A:106:GLY:N	2.14	0.61
1:A:155:GLY:CA	1:A:158:ASP:OD1	2.49	0.61
1:A:233:PRO:HB2	1:A:294:ASN:OD1	2.01	0.61
1:A:370:ARG:O	1:A:371:ASN:CB	2.49	0.61
1:C:58:GLU:OE2	1:C:412:HIS:CE1	2.53	0.61
1:D:167:ASN:HB3	1:D:170:ARG:HG3	1.81	0.61
1:F:365:PRO:O	1:F:367:PRO:HD3	2.00	0.61
1:G:276:ALA:HB2	1:G:364:ALA:CB	2.31	0.61
1:G:319:LEU:HG	1:G:319:LEU:O	1.99	0.61
1:I:169:ARG:O	1:I:173:VAL:HG23	2.01	0.61
1:I:208:CYS:HB3	1:I:343:PRO:CB	2.31	0.61
1:I:244:MET:HE2	1:I:338:ASP:O	2.00	0.61
1:J:5:THR:HG22	1:J:6:ARG:H	1.65	0.61
1:K:309:VAL:HG22	1:K:388:LEU:HD21	1.83	0.61
1:A:127:PHE:CZ	1:A:248:LEU:HD22	2.34	0.61
1:A:370:ARG:CZ	1:A:375:MET:HE3	2.30	0.61
1:D:52:PHE:CE2	1:D:54:GLY:HA2	2.32	0.61
1:G:306:PRO:HG3	1:G:335:ARG:HH21	1.64	0.61
1:G:372:ILE:HG12	1:G:373:TYR:H	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:24:GLN:HG2	1:H:32:ILE:CG1	2.30	0.61
1:H:234:LYS:HE2	1:H:303:TYR:CE1	2.36	0.61
1:I:316:ARG:HG3	2:Q:747:MET:HG2	1.82	0.61
1:L:302:GLY:O	1:L:316:ARG:NH2	2.34	0.61
1:M:5:THR:OG1	1:M:8:ASP:OD1	2.19	0.61
1:M:97:TYR:HE2	1:M:103:PRO:HD3	1.65	0.61
1:B:124:PHE:HD1	1:B:124:PHE:H	1.48	0.61
1:B:237:PHE:HB2	1:D:432:VAL:HG23	1.81	0.61
1:C:41:GLN:OE1	1:I:200:LYS:HE3	1.99	0.61
1:D:33:LYS:HD3	1:H:156:TYR:O	2.01	0.61
1:D:141:ASP:OD1	1:D:143:LYS:HB2	1.99	0.61
1:D:350:LEU:O	1:D:351:LEU:C	2.43	0.61
1:D:383:ASN:C	1:D:385:ILE:H	2.08	0.61
1:E:169:ARG:HH22	1:E:188:HIS:HB2	1.63	0.61
1:F:141:ASP:OD2	1:F:145:GLU:O	2.18	0.61
1:F:302:GLY:HA3	2:O:750:GLY:HA3	1.81	0.61
1:H:199:PHE:N	1:H:199:PHE:CD1	2.68	0.61
1:J:151:ASN:ND2	1:J:166:GLU:OE1	2.34	0.61
1:L:259:PHE:CZ	1:L:261:GLU:HG3	2.35	0.61
1:M:67:ASP:O	1:M:68:MET:HE3	2.00	0.61
1:N:379:GLU:HA	1:N:382:GLU:OE1	2.01	0.61
1:A:172:ILE:HD13	1:A:221:ILE:HB	1.82	0.61
1:A:191:ALA:HB2	1:A:240:ASN:HB2	1.81	0.61
1:C:48:ASN:OD1	1:C:71:TYR:HA	2.01	0.61
1:D:50:VAL:HG12	1:D:51:MET:N	2.15	0.61
1:D:81:PRO:O	1:D:83:THR:N	2.33	0.61
1:D:223:ARG:HH11	1:D:223:ARG:HG2	1.65	0.61
1:E:302:GLY:O	1:E:304:GLU:N	2.30	0.61
1:F:91:ARG:CZ	1:F:93:ILE:HD11	2.30	0.61
1:F:241:GLY:O	3:F:501:GLN:N	2.33	0.61
1:H:405:MET:O	1:H:406:VAL:C	2.44	0.61
1:J:96:ILE:HG21	1:J:104:PHE:HD2	1.65	0.61
1:L:290:ASN:ND2	1:L:299:LEU:HD11	2.15	0.61
2:U:751:GLN:O	2:U:754:HIS:HB2	2.00	0.61
1:A:51:MET:HE1	1:F:325:SER:OG	2.01	0.61
1:B:345:LEU:HD21	1:B:413:LEU:CD1	2.31	0.61
1:C:4:TYR:CB	1:C:9:ILE:HD11	2.31	0.61
1:C:109:ARG:HG3	1:C:344:TYR:HE2	1.63	0.61
1:C:267:LEU:HD22	1:C:271:ALA:HB1	1.82	0.61
1:C:304:GLU:OE2	3:C:503:GLN:OE1	2.19	0.61
1:E:372:ILE:O	1:E:380:ARG:HD3	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:131:PRO:HG2	1:F:211:ILE:HD11	1.82	0.61
1:F:163:ASP:O	1:F:167:ASN:HB2	2.00	0.61
1:G:371:ASN:O	1:G:375:MET:HG3	2.00	0.61
1:K:211:ILE:O	1:K:215:LYS:HG3	2.00	0.61
1:L:232:MET:HE3	1:M:441:MET:N	2.15	0.61
1:L:271:ALA:C	1:L:273:HIS:H	2.07	0.61
1:N:377:LYS:O	1:N:381:MET:HB2	2.01	0.61
2:V:752:ASN:HA	2:V:755:PHE:CD2	2.36	0.61
2:W:747:MET:HE2	2:W:751:GLN:HE22	1.64	0.61
2:2:759:ASN:O	2:2:760:ARG:HG3	2.00	0.61
1:C:182:GLU:HB3	1:C:200:LYS:CG	2.30	0.61
1:C:268:SER:O	1:C:271:ALA:HB3	2.00	0.61
1:D:166:GLU:O	1:D:167:ASN:C	2.44	0.61
1:D:371:ASN:C	1:D:371:ASN:OD1	2.44	0.61
1:H:312:SER:OG	1:H:368:ILE:O	2.19	0.61
1:I:204:ALA:HB1	1:I:347:LEU:HD23	1.81	0.61
1:J:22:ARG:NH2	1:M:170:ARG:HH21	1.98	0.61
1:K:114:ARG:HA	1:K:117:LYS:HD2	1.83	0.61
1:K:289:THR:C	1:K:291:PRO:HD3	2.25	0.61
1:M:9:ILE:O	1:M:13:VAL:HG23	2.01	0.61
1:M:82:TRP:O	1:M:83:THR:CB	2.49	0.61
1:A:146:PRO:HG3	1:A:228:HIS:CE1	2.35	0.61
1:C:71:TYR:O	1:C:94:CYS:HB3	2.01	0.61
1:C:311:TRP:HZ2	1:C:367:PRO:HD3	1.65	0.61
1:F:443:GLN:NE2	2:R:758:LYS:NZ	2.48	0.61
1:G:42:LEU:O	1:G:45:ALA:HB3	2.01	0.61
1:G:78:VAL:HG23	1:G:91:ARG:HH12	1.65	0.61
1:G:167:ASN:ND2	1:G:170:ARG:NE	2.49	0.61
1:H:244:MET:HG2	1:H:244:MET:O	2.01	0.61
1:I:212:GLN:OE1	1:I:343:PRO:HG2	2.01	0.61
1:K:52:PHE:C	1:K:52:PHE:CD2	2.79	0.61
1:N:377:LYS:HA	1:N:380:ARG:HB3	1.83	0.61
2:T:749:GLU:O	2:T:753:ALA:N	2.34	0.61
2:V:748:LEU:CD1	2:V:752:ASN:OD1	2.49	0.61
1:A:96:ILE:HG22	1:A:104:PHE:CB	2.31	0.60
1:A:197:ILE:HD12	1:A:214:PHE:CZ	2.36	0.60
1:B:239:VAL:HA	2:Z:757:TYR:CZ	2.36	0.60
1:F:380:ARG:HA	1:F:383:ASN:ND2	2.16	0.60
1:G:239:VAL:CG1	2:T:757:TYR:CE2	2.79	0.60
1:J:48:ASN:HB3	1:J:71:TYR:CD1	2.36	0.60
1:K:17:ASN:HD21	1:K:19:LYS:HE3	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:272:LYS:HE2	1:K:364:ALA:HB3	1.83	0.60
1:E:116:LEU:HD11	1:E:204:ALA:HB3	1.83	0.60
1:F:277:GLY:HA3	1:F:353:ALA:O	2.00	0.60
1:G:150:LEU:HD13	1:G:192:PRO:O	2.01	0.60
1:G:323:PRO:HB2	1:G:331:ARG:NH2	2.09	0.60
1:H:127:PHE:CG	1:H:351:LEU:HD13	2.35	0.60
1:K:54:GLY:HA3	1:K:68:MET:HE3	1.84	0.60
1:K:138:PHE:HB2	1:K:228:HIS:HB3	1.82	0.60
1:L:71:TYR:O	1:L:94:CYS:HB3	2.01	0.60
1:M:374:VAL:HG23	1:M:375:MET:H	1.66	0.60
1:N:187:HIS:CE1	1:N:196:GLU:OE1	2.53	0.60
1:N:433:HIS:O	1:N:436:GLU:HB2	2.01	0.60
2:S:753:ALA:HA	2:S:756:ARG:CG	2.31	0.60
2:V:748:LEU:O	2:V:752:ASN:CB	2.46	0.60
1:A:264:ASP:O	1:A:265:LEU:HB2	2.01	0.60
1:B:377:LYS:N	1:B:380:ARG:NH2	2.48	0.60
1:C:427:MET:SD	2:Q:759:ASN:CG	2.83	0.60
1:D:397:GLU:CD	1:D:400:LYS:HE3	2.27	0.60
1:D:405:MET:O	1:D:408:ALA:HB3	2.01	0.60
1:E:246:CYS:SG	1:E:337:VAL:HG21	2.41	0.60
1:G:435:TRP:CD1	1:I:431:GLN:HG3	2.36	0.60
1:I:368:ILE:O	1:I:368:ILE:HG22	2.01	0.60
1:K:170:ARG:NH2	1:L:22:ARG:NH2	2.49	0.60
1:K:351:LEU:CD1	1:K:355:LEU:HD21	2.31	0.60
1:L:60:PHE:CE2	2:1:758:LYS:HE2	2.36	0.60
1:N:34:ASN:ND2	1:N:34:ASN:O	2.33	0.60
2:T:750:GLY:C	2:T:753:ALA:H	2.09	0.60
2:V:749:GLU:CA	2:V:752:ASN:HB2	2.31	0.60
1:B:164:LEU:HG	1:B:165:GLY:N	2.17	0.60
1:C:58:GLU:OE2	1:C:412:HIS:HE1	1.84	0.60
1:D:3:LYS:HB3	1:D:75:ASN:OD1	2.01	0.60
1:E:300:VAL:CG1	1:E:301:PRO:HD2	2.31	0.60
1:F:93:ILE:O	1:F:94:CYS:SG	2.57	0.60
1:H:109:ARG:HA	1:H:344:TYR:CD2	2.36	0.60
1:H:167:ASN:HA	1:H:170:ARG:HD2	1.82	0.60
1:I:164:LEU:H	1:I:164:LEU:HD23	1.65	0.60
1:K:316:ARG:HD3	1:L:63:ILE:O	2.01	0.60
1:L:79:ILE:HD13	1:L:90:ALA:CB	2.30	0.60
1:N:211:ILE:O	1:N:214:PHE:HB3	2.01	0.60
1:B:239:VAL:CG1	2:Z:757:TYR:CE2	2.83	0.60
1:C:403:GLU:O	1:C:403:GLU:CD	2.45	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:191:ALA:HB1	1:E:192:PRO:HD2	1.83	0.60
1:I:372:ILE:CD1	1:I:375:MET:SD	2.89	0.60
1:J:303:TYR:CD1	2:2:753:ALA:HB1	2.36	0.60
1:J:429:ARG:O	1:J:429:ARG:HG2	2.01	0.60
1:K:167:ASN:HA	1:K:170:ARG:HG3	1.84	0.60
1:K:405:MET:O	1:K:408:ALA:N	2.35	0.60
1:L:444:TYR:HE2	1:M:292:THR:HG21	1.67	0.60
1:N:414:PHE:C	1:N:414:PHE:CD2	2.78	0.60
1:B:435:TRP:CZ3	1:D:428:PHE:HB2	2.36	0.60
1:E:166:GLU:HA	1:E:169:ARG:HB3	1.84	0.60
1:G:184:GLU:OE1	1:M:44:LYS:NZ	2.34	0.60
1:H:183:ILE:HD13	1:H:183:ILE:O	2.01	0.60
1:H:260:ASP:OD2	1:H:263:ALA:HB2	2.01	0.60
1:J:71:TYR:CD1	1:J:71:TYR:N	2.68	0.60
1:K:208:CYS:HA	1:K:211:ILE:CG1	2.30	0.60
1:K:275:ILE:N	1:K:275:ILE:HD12	2.14	0.60
1:L:265:LEU:HD12	1:L:265:LEU:N	2.16	0.60
1:L:368:ILE:HG23	1:L:370:ARG:HH12	1.65	0.60
1:M:35:VAL:HG13	1:M:70:LEU:HD21	1.81	0.60
1:M:243:GLY:CA	1:M:298:ARG:NH1	2.65	0.60
1:A:319:LEU:CD1	1:A:336:SER:HB3	2.31	0.60
1:C:108:PRO:HB3	1:C:345:LEU:CD2	2.32	0.60
1:D:235:PRO:HG2	1:D:236:LEU:H	1.65	0.60
1:E:389:PRO:HA	1:E:394:GLU:OE2	2.01	0.60
1:F:163:ASP:HA	1:F:167:ASN:ND2	2.17	0.60
1:F:302:GLY:C	2:O:750:GLY:HA3	2.26	0.60
1:F:342:ASN:OD1	1:F:345:LEU:HG	2.01	0.60
1:M:60:PHE:CD2	2:T:758:LYS:HG3	2.36	0.60
1:M:68:MET:HE2	1:M:99:PRO:HD3	1.82	0.60
1:N:300:VAL:CG1	1:N:301:PRO:HD2	2.32	0.60
1:N:302:GLY:O	1:N:304:GLU:N	2.31	0.60
1:A:129:LEU:HD12	1:A:347:LEU:CD2	2.29	0.60
1:A:235:PRO:O	1:C:432:VAL:HG11	2.01	0.60
1:C:338:ASP:HB2	1:C:339:PRO:HD2	1.84	0.60
1:C:414:PHE:CZ	1:C:418:ILE:HD11	2.37	0.60
1:D:53:ASP:O	1:D:56:SER:HB3	2.01	0.60
1:D:78:VAL:HB	1:D:91:ARG:HG3	1.84	0.60
1:D:163:ASP:O	1:D:164:LEU:O	2.19	0.60
1:D:372:ILE:HD12	1:D:373:TYR:N	2.17	0.60
1:D:404:VAL:O	1:D:404:VAL:HG23	2.02	0.60
1:F:52:PHE:CE1	1:F:70:LEU:HD13	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:286:THR:HG21	1:F:389:PRO:CG	2.32	0.60
1:G:316:ARG:HG2	1:G:373:TYR:CE2	2.35	0.60
1:H:114:ARG:NH1	1:H:115:ILE:HD11	2.17	0.60
1:H:293:VAL:HG11	1:H:428:PHE:CE2	2.36	0.60
1:I:285:PHE:HB3	1:I:405:MET:SD	2.41	0.60
1:J:64:GLU:HB2	1:M:314:GLN:HE22	1.66	0.60
1:J:205:VAL:HG23	1:J:205:VAL:O	2.01	0.60
1:J:379:GLU:O	1:J:382:GLU:HG3	2.02	0.60
1:K:48:ASN:OD1	1:K:71:TYR:HA	2.01	0.60
1:K:157:PHE:O	1:K:158:ASP:C	2.45	0.60
1:L:291:PRO:CG	1:L:341:ALA:HA	2.32	0.60
1:A:163:ASP:N	1:A:170:ARG:HH22	1.99	0.60
1:B:80:PHE:CZ	1:B:91:ARG:HG2	2.37	0.60
1:B:85:GLU:O	1:B:85:GLU:CG	2.48	0.60
1:B:127:PHE:CZ	1:B:351:LEU:HD13	2.37	0.60
1:G:169:ARG:HG2	1:G:197:ILE:HD11	1.84	0.60
1:I:164:LEU:HG	1:I:165:GLY:N	2.17	0.60
1:J:129:LEU:HD12	1:J:347:LEU:HD11	1.83	0.60
1:K:199:PHE:N	1:K:199:PHE:CD1	2.69	0.60
1:K:201:TYR:HD2	1:K:201:TYR:C	2.10	0.60
1:K:295:SER:OG	1:K:338:ASP:OD1	2.19	0.60
1:K:345:LEU:HD21	1:K:413:LEU:HD11	1.83	0.60
1:M:316:ARG:HD3	2:U:747:MET:HG2	1.82	0.60
1:M:371:ASN:OD1	1:M:373:TYR:HB2	2.02	0.60
2:Q:747:MET:O	2:Q:751:GLN:HB2	2.02	0.60
2:V:756:ARG:O	2:V:760:ARG:HB2	2.01	0.60
1:A:57:ILE:CD1	1:A:96:ILE:CD1	2.78	0.60
1:A:316:ARG:HD2	2:P:747:MET:CG	2.27	0.60
1:B:289:THR:O	1:B:341:ALA:HB2	2.02	0.60
1:B:351:LEU:O	1:B:351:LEU:CG	2.50	0.60
1:C:54:GLY:HA3	1:C:68:MET:CE	2.28	0.60
1:D:150:LEU:HD13	1:D:192:PRO:HB2	1.84	0.60
1:D:315:ASN:ND2	1:D:368:ILE:HG21	2.17	0.60
1:E:285:PHE:CD1	1:E:285:PHE:C	2.79	0.60
1:E:368:ILE:O	1:E:369:ASP:OD1	2.19	0.60
1:G:59:GLY:O	1:G:62:ARG:HG2	2.02	0.60
1:G:152:ASP:OD2	1:G:161:PRO:HB3	2.01	0.60
1:I:252:LYS:HB2	1:I:252:LYS:HZ1	1.66	0.60
1:J:19:LYS:HA	1:J:39:VAL:HG11	1.84	0.60
1:J:302:GLY:CA	2:2:750:GLY:HA2	2.32	0.60
1:K:68:MET:HG2	1:K:97:TYR:O	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:139:LYS:CD	1:L:149:GLU:OE2	2.50	0.60
1:L:232:MET:HE3	1:M:440:TYR:C	2.27	0.60
1:L:232:MET:O	1:L:235:PRO:HD3	2.02	0.60
1:N:410:GLY:O	1:N:412:HIS:N	2.34	0.60
2:Z:746:LYS:C	2:Z:748:LEU:N	2.53	0.60
1:D:86:LYS:NZ	1:D:86:LYS:CB	2.63	0.59
1:D:86:LYS:HG2	1:H:174:LEU:HD23	1.83	0.59
1:D:96:ILE:C	1:D:97:TYR:HD1	2.10	0.59
1:E:280:LYS:O	1:E:280:LYS:HG2	2.01	0.59
1:F:443:GLN:NE2	2:R:758:LYS:HZ3	2.00	0.59
1:G:205:VAL:O	1:G:209:ASP:HB2	2.02	0.59
1:G:293:VAL:HG23	1:I:440:TYR:OH	2.02	0.59
1:H:42:LEU:O	1:H:42:LEU:HD12	2.02	0.59
1:H:208:CYS:SG	1:H:347:LEU:HD23	2.42	0.59
1:H:360:ASN:O	1:H:361:LYS:C	2.44	0.59
1:L:427:MET:SD	2:1:759:ASN:ND2	2.75	0.59
1:N:309:VAL:HA	1:N:319:LEU:HD12	1.83	0.59
1:N:319:LEU:HD23	1:N:319:LEU:C	2.27	0.59
1:B:135:PHE:HE1	1:B:197:ILE:HD12	1.66	0.59
1:B:239:VAL:HG12	2:Z:757:TYR:HE2	1.67	0.59
1:B:261:GLU:HA	1:B:266:GLN:HG2	1.85	0.59
1:B:392:LEU:HD21	1:B:421:LYS:HD2	1.83	0.59
1:C:167:ASN:CG	1:C:170:ARG:NH1	2.59	0.59
1:D:89:VAL:HG21	1:H:170:ARG:HH21	1.67	0.59
1:D:178:GLU:O	1:D:179:MET:HG3	2.01	0.59
1:E:24:GLN:NE2	1:E:91:ARG:CD	2.64	0.59
1:E:259:PHE:CE2	1:E:261:GLU:OE2	2.56	0.59
1:F:95:ASP:HB3	1:F:97:TYR:HE1	1.66	0.59
1:G:45:ALA:HA	1:G:50:VAL:HG23	1.84	0.59
1:G:281:HIS:CD2	1:G:353:ALA:CB	2.85	0.59
1:L:96:ILE:O	1:L:97:TYR:CD1	2.55	0.59
1:M:368:ILE:CD1	1:M:385:ILE:HD11	2.23	0.59
1:N:58:GLU:OE1	1:N:416:HIS:CE1	2.55	0.59
2:P:753:ALA:O	2:P:757:TYR:CD1	2.54	0.59
2:Z:748:LEU:O	2:Z:748:LEU:HD22	2.02	0.59
1:A:65:GLU:HG2	1:F:321:ARG:NH1	2.16	0.59
1:A:129:LEU:HD12	1:A:347:LEU:HD11	1.84	0.59
1:A:156:TYR:CZ	1:A:157:PHE:HE1	2.19	0.59
1:A:169:ARG:NH2	1:A:195:HIS:HD2	1.98	0.59
1:B:127:PHE:CZ	1:B:351:LEU:HB2	2.36	0.59
1:B:163:ASP:O	1:B:167:ASN:HB2	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:20:TYR:C	1:C:21:ILE:HD12	2.27	0.59
1:D:60:PHE:CE1	2:Y:755:PHE:HE2	2.19	0.59
1:D:162:THR:OG1	1:F:223:ARG:NH2	2.36	0.59
1:F:172:ILE:HG22	1:F:176:LEU:HD11	1.84	0.59
1:H:234:LYS:HE2	1:H:303:TYR:CD1	2.37	0.59
1:J:234:LYS:HD2	1:J:236:LEU:O	2.02	0.59
1:K:169:ARG:HH22	1:K:188:HIS:HB2	1.66	0.59
1:L:380:ARG:HG3	1:L:385:ILE:HG21	1.84	0.59
1:M:5:THR:O	1:M:8:ASP:HB2	2.01	0.59
1:M:370:ARG:HG3	1:M:371:ASN:H	1.68	0.59
1:B:119:MET:HE1	1:B:127:PHE:N	2.17	0.59
1:C:285:PHE:C	1:C:285:PHE:CD1	2.80	0.59
1:E:316:ARG:NH1	1:E:372:ILE:HG12	2.17	0.59
1:F:274:PHE:CB	1:F:358:ILE:HD11	2.32	0.59
1:F:321:ARG:O	1:F:333:GLU:N	2.35	0.59
1:G:142:GLU:CD	1:G:142:GLU:N	2.60	0.59
1:G:252:LYS:O	1:G:253:ASN:CB	2.49	0.59
1:I:11:LYS:O	1:I:12:LEU:C	2.44	0.59
1:K:159:LEU:HG	1:L:32:ILE:HD11	1.83	0.59
1:K:161:PRO:HG2	1:K:169:ARG:HH22	1.68	0.59
1:K:351:LEU:O	1:K:355:LEU:HG	2.02	0.59
1:L:61:VAL:HG11	1:L:420:ALA:CB	2.31	0.59
1:N:11:LYS:NZ	1:N:11:LYS:HB3	2.18	0.59
1:A:22:ARG:HD3	1:F:159:LEU:HD21	1.83	0.59
1:A:52:PHE:CE1	1:A:70:LEU:CD1	2.84	0.59
1:A:98:ASN:HD22	1:A:102:THR:HB	1.67	0.59
1:B:298:ARG:O	1:B:299:LEU:HD12	2.01	0.59
1:D:223:ARG:CG	1:D:223:ARG:NH1	2.59	0.59
1:E:166:GLU:C	1:E:168:CYS:N	2.58	0.59
1:E:412:HIS:NE2	1:E:416:HIS:CE1	2.71	0.59
1:F:82:TRP:CD1	1:F:82:TRP:H	2.20	0.59
1:F:311:TRP:O	1:F:367:PRO:HA	2.03	0.59
1:G:83:THR:HB	1:G:89:VAL:HG23	1.83	0.59
1:G:112:LEU:HD22	1:G:116:LEU:CD1	2.32	0.59
1:J:440:TYR:HD1	1:J:444:TYR:HE2	1.50	0.59
1:K:52:PHE:CD2	1:K:53:ASP:N	2.69	0.59
1:K:302:GLY:HA2	2:1:746:LYS:O	2.02	0.59
1:M:181:PHE:HZ	1:M:213:THR:HB	1.67	0.59
2:S:753:ALA:HA	2:S:756:ARG:CD	2.32	0.59
1:A:422:GLU:O	1:A:426:ASP:HB3	2.03	0.59
1:B:79:ILE:HD13	1:B:90:ALA:HB2	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:223:ARG:HH11	1:B:223:ARG:HG3	1.67	0.59
1:C:350:LEU:O	1:C:351:LEU:C	2.45	0.59
1:C:404:VAL:HG13	1:C:405:MET:HE2	1.85	0.59
1:G:71:TYR:O	1:G:94:CYS:HB3	2.02	0.59
1:G:243:GLY:CA	1:G:298:ARG:NH1	2.65	0.59
1:G:331:ARG:HH21	1:G:331:ARG:CG	2.15	0.59
1:H:203:GLY:O	1:H:204:ALA:C	2.46	0.59
1:I:219:LYS:HG2	1:I:229:ALA:HB3	1.84	0.59
1:J:19:LYS:CG	1:J:87:GLY:HA3	2.31	0.59
1:J:319:LEU:CD1	1:J:388:LEU:HD11	2.32	0.59
1:K:322:ILE:HG22	1:K:326:ARG:NH2	2.17	0.59
1:L:23:LEU:HD23	1:L:92:PHE:HB2	1.83	0.59
1:L:112:LEU:CD1	1:L:205:VAL:HG22	2.32	0.59
1:N:235:PRO:CG	1:N:236:LEU:H	2.14	0.59
1:A:45:ALA:HA	1:A:50:VAL:HG23	1.82	0.59
1:C:64:GLU:O	1:C:65:GLU:C	2.43	0.59
1:C:97:TYR:CZ	1:C:103:PRO:HB3	2.37	0.59
1:D:169:ARG:HH21	1:D:169:ARG:CG	2.14	0.59
1:F:381:MET:HE1	1:F:386:VAL:HA	1.83	0.59
1:G:140:LEU:HD12	1:G:227:LEU:CA	2.32	0.59
1:H:115:ILE:HG22	1:H:351:LEU:HD23	1.84	0.59
1:I:405:MET:C	1:I:407:LYS:N	2.58	0.59
1:J:151:ASN:O	1:J:152:ASP:HB3	2.02	0.59
1:L:25:PHE:CD1	1:L:57:ILE:HD11	2.38	0.59
1:L:315:ASN:O	1:L:318:PRO:HD3	2.02	0.59
1:N:131:PRO:HB3	1:N:211:ILE:HD11	1.84	0.59
2:Z:750:GLY:O	2:Z:753:ALA:HB3	2.03	0.59
1:A:142:GLU:C	1:A:144:GLY:H	2.10	0.59
1:A:190:VAL:HB	1:A:240:ASN:ND2	2.18	0.59
1:C:421:LYS:O	1:C:424:GLU:HB3	2.02	0.59
1:D:400:LYS:HE2	1:D:418:ILE:CD1	2.32	0.59
1:E:24:GLN:NE2	1:E:91:ARG:HD3	2.18	0.59
1:E:308:TYR:CD1	1:E:372:ILE:HG13	2.35	0.59
1:K:303:TYR:HE1	2:1:753:ALA:HB2	1.68	0.59
1:L:71:TYR:N	1:L:71:TYR:CD1	2.70	0.59
1:L:311:TRP:CE3	1:L:322:ILE:HD12	2.38	0.59
1:L:331:ARG:HG3	1:L:331:ARG:NH2	2.10	0.59
1:N:119:MET:HE2	1:N:250:LEU:CD2	2.32	0.59
1:A:22:ARG:HD3	1:F:159:LEU:CD2	2.33	0.59
1:B:380:ARG:O	1:B:385:ILE:HB	2.03	0.59
1:C:349:VAL:C	1:C:352:ALA:HB3	2.27	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:22:ARG:HH11	1:G:22:ARG:CG	2.13	0.59
1:H:60:PHE:CD2	2:2:758:LYS:CG	2.85	0.59
1:I:151:ASN:CG	1:I:151:ASN:O	2.46	0.59
1:J:19:LYS:HG3	1:J:87:GLY:HA3	1.83	0.59
1:M:46:LEU:CD1	1:M:74:LEU:HD11	2.33	0.59
1:M:251:PHE:CE1	1:M:256:ASN:HA	2.37	0.59
1:N:42:LEU:O	1:N:45:ALA:HB3	2.03	0.59
1:N:58:GLU:O	1:N:61:VAL:HG23	2.03	0.59
1:N:71:TYR:CE1	1:N:97:TYR:HB2	2.38	0.59
1:N:132:GLU:HB2	1:N:245:HIS:HB2	1.84	0.59
1:N:203:GLY:O	1:N:204:ALA:C	2.43	0.59
2:W:757:TYR:O	2:W:759:ASN:N	2.36	0.59
1:B:162:THR:CG2	1:B:170:ARG:HH12	2.12	0.59
1:E:293:VAL:CG1	1:E:428:PHE:CD2	2.85	0.59
1:E:375:MET:HB3	1:E:379:GLU:HG2	1.85	0.59
1:I:102:THR:HG23	1:I:103:PRO:HD2	1.84	0.59
1:I:151:ASN:O	1:I:152:ASP:HB3	2.02	0.59
1:I:286:THR:HG21	1:I:389:PRO:HD2	1.84	0.59
1:L:119:MET:HE3	1:L:250:LEU:CD2	2.32	0.59
1:L:221:ILE:HG22	1:L:221:ILE:O	2.02	0.59
2:X:753:ALA:O	2:X:757:TYR:CE1	2.56	0.59
1:A:302:GLY:C	1:A:304:GLU:H	2.11	0.58
1:B:41:GLN:NE2	1:E:184:GLU:OE2	2.36	0.58
1:B:61:VAL:HG23	1:B:61:VAL:O	2.03	0.58
1:B:186:SER:O	1:B:187:HIS:HB3	2.02	0.58
1:B:427:MET:O	1:B:431:GLN:HG2	2.03	0.58
1:G:16:GLU:O	1:G:17:ASN:C	2.46	0.58
1:G:193:GLY:O	1:G:195:HIS:CD2	2.56	0.58
1:H:38:PRO:O	1:H:41:GLN:HB2	2.03	0.58
1:H:64:GLU:O	1:H:65:GLU:C	2.46	0.58
1:I:155:GLY:CA	1:I:158:ASP:OD1	2.51	0.58
1:I:402:ASN:O	1:I:406:VAL:HG23	2.03	0.58
1:J:282:ALA:O	1:J:283:THR:C	2.42	0.58
1:J:415:GLU:CG	1:J:416:HIS:N	2.66	0.58
1:K:188:HIS:ND1	1:K:189:GLU:N	2.50	0.58
1:K:201:TYR:C	1:K:201:TYR:CD2	2.81	0.58
1:K:327:GLY:N	1:K:330:THR:OG1	2.36	0.58
1:L:52:PHE:CD1	1:L:70:LEU:HD13	2.38	0.58
1:L:293:VAL:HG11	1:L:428:PHE:CD2	2.37	0.58
1:A:264:ASP:N	1:A:264:ASP:OD1	2.36	0.58
1:B:5:THR:O	1:B:8:ASP:CB	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:302:GLY:C	2:Z:750:GLY:HA2	2.27	0.58
1:D:308:TYR:HD1	1:D:372:ILE:HD13	1.67	0.58
1:D:321:ARG:NH1	1:F:67:ASP:OD2	2.36	0.58
1:D:357:GLY:HA2	1:D:362:LEU:CD2	2.33	0.58
1:F:91:ARG:HD2	1:F:91:ARG:C	2.27	0.58
1:F:127:PHE:CE2	1:F:351:LEU:CB	2.80	0.58
1:G:106:GLY:HA2	1:G:413:LEU:CD1	2.33	0.58
1:H:240:ASN:ND2	2:Y:757:TYR:OH	2.36	0.58
1:I:60:PHE:CD2	2:S:758:LYS:HE2	2.38	0.58
1:I:63:ILE:CG2	2:S:747:MET:HE1	2.33	0.58
1:I:439:GLN:NE2	2:P:759:ASN:HA	2.18	0.58
1:K:182:GLU:HG2	1:K:200:LYS:HD3	1.84	0.58
1:K:323:PRO:CG	1:K:331:ARG:NH2	2.65	0.58
1:M:238:GLY:O	1:M:239:VAL:CG2	2.51	0.58
1:M:286:THR:HG22	1:M:287:ALA:N	2.18	0.58
2:V:748:LEU:HD13	2:V:752:ASN:OD1	2.02	0.58
2:1:751:GLN:O	2:1:754:HIS:HB2	2.03	0.58
1:A:170:ARG:O	1:A:171:ASP:C	2.45	0.58
1:C:248:LEU:HD11	1:C:350:LEU:HD13	1.85	0.58
1:D:52:PHE:C	1:D:52:PHE:CD2	2.81	0.58
1:D:359:LYS:HG2	1:D:360:ASN:ND2	2.18	0.58
1:E:270:THR:O	1:E:358:ILE:CD1	2.52	0.58
1:E:285:PHE:C	1:E:285:PHE:HD1	2.11	0.58
1:E:293:VAL:HG11	1:E:428:PHE:CE2	2.39	0.58
1:G:443:GLN:OE1	1:G:444:TYR:CD1	2.56	0.58
1:I:127:PHE:O	1:I:128:ASN:OD1	2.21	0.58
1:I:433:HIS:O	1:I:436:GLU:HB2	2.03	0.58
1:J:440:TYR:HD1	1:J:444:TYR:CE2	2.21	0.58
1:K:19:LYS:HG3	1:K:87:GLY:HA3	1.86	0.58
1:M:431:GLN:HB3	1:M:433:HIS:CE1	2.38	0.58
1:N:22:ARG:O	1:N:91:ARG:HA	2.03	0.58
2:U:748:LEU:O	2:U:752:ASN:CB	2.50	0.58
1:A:204:ALA:HB2	1:A:347:LEU:HD12	1.82	0.58
1:B:116:LEU:O	1:B:119:MET:N	2.36	0.58
1:B:139:LYS:HA	1:B:227:LEU:HD23	1.84	0.58
1:C:118:GLU:O	1:C:122:LEU:HD12	2.03	0.58
1:D:22:ARG:NH2	1:H:170:ARG:NH2	2.51	0.58
1:G:322:ILE:HD12	1:G:322:ILE:N	2.18	0.58
1:H:57:ILE:O	1:H:57:ILE:HG22	2.03	0.58
1:H:139:LYS:HD3	1:H:151:ASN:HA	1.85	0.58
1:I:67:ASP:O	1:I:68:MET:HG2	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:56:SER:HB3	1:N:156:TYR:CD2	2.38	0.58
1:K:192:PRO:HD3	2:1:757:TYR:HD2	1.69	0.58
1:L:168:CYS:HA	1:L:225:HIS:CE1	2.38	0.58
1:L:444:TYR:CD2	1:M:340:ALA:HB1	2.38	0.58
1:M:98:ASN:HD21	1:M:104:PHE:HA	1.66	0.58
2:S:753:ALA:C	2:S:756:ARG:HG2	2.28	0.58
1:A:114:ARG:NH2	1:A:407:LYS:O	2.35	0.58
1:A:155:GLY:C	1:A:158:ASP:OD1	2.47	0.58
1:B:219:LYS:O	1:B:222:ALA:HB3	2.03	0.58
1:B:345:LEU:HD21	1:B:413:LEU:HD13	1.86	0.58
1:E:114:ARG:HA	1:E:117:LYS:HD2	1.85	0.58
1:F:312:SER:CB	1:F:368:ILE:O	2.51	0.58
1:G:140:LEU:HD12	1:G:226:GLY:C	2.28	0.58
1:G:156:TYR:CZ	1:G:157:PHE:HE1	2.22	0.58
1:H:65:GLU:OE1	1:J:321:ARG:NH1	2.37	0.58
1:H:114:ARG:HH11	1:H:115:ILE:HD12	1.68	0.58
1:H:163:ASP:CA	1:H:167:ASN:HB2	2.31	0.58
1:H:252:LYS:HB2	1:H:252:LYS:NZ	2.18	0.58
1:K:140:LEU:HD12	1:K:226:GLY:C	2.29	0.58
1:K:275:ILE:CD1	1:K:275:ILE:H	2.16	0.58
1:L:169:ARG:HD3	1:L:186:SER:HB2	1.85	0.58
1:L:369:ASP:OD2	1:L:370:ARG:N	2.37	0.58
1:N:167:ASN:HA	1:N:170:ARG:CD	2.32	0.58
1:N:265:LEU:O	1:N:267:LEU:HG	2.04	0.58
1:A:68:MET:HG2	1:A:96:ILE:HG23	1.84	0.58
1:A:162:THR:C	1:A:164:LEU:N	2.60	0.58
1:B:288:VAL:O	1:B:291:PRO:HD3	2.03	0.58
1:B:427:MET:HE2	1:D:435:TRP:HZ2	1.67	0.58
1:C:21:ILE:HD12	1:C:21:ILE:N	2.19	0.58
1:C:80:PHE:O	1:C:83:THR:OG1	2.20	0.58
1:C:316:ARG:HD3	2:R:747:MET:CG	2.34	0.58
1:G:119:MET:HE3	1:G:250:LEU:HD23	1.86	0.58
1:G:167:ASN:HA	1:G:170:ARG:HB2	1.85	0.58
1:H:77:PHE:O	1:H:78:VAL:CG2	2.48	0.58
1:H:275:ILE:O	1:H:276:ALA:C	2.44	0.58
1:I:170:ARG:O	1:I:174:LEU:HD23	2.03	0.58
1:L:169:ARG:HA	1:L:172:ILE:HD12	1.85	0.58
1:N:164:LEU:O	1:N:168:CYS:CB	2.50	0.58
1:A:309:VAL:HG22	1:A:319:LEU:CD2	2.33	0.58
1:B:156:TYR:CE2	1:N:56:SER:HB3	2.38	0.58
1:B:181:PHE:HB3	1:B:183:ILE:HD11	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:63:ILE:O	1:I:316:ARG:HA	2.02	0.58
1:C:127:PHE:CD1	1:C:250:LEU:HG	2.39	0.58
1:C:182:GLU:O	1:C:200:LYS:HG3	2.04	0.58
1:C:256:ASN:C	1:C:256:ASN:OD1	2.47	0.58
1:D:70:LEU:O	1:D:72:PRO:HD3	2.03	0.58
1:D:81:PRO:C	1:D:83:THR:H	2.12	0.58
1:D:117:LYS:C	1:D:119:MET:H	2.11	0.58
1:H:244:MET:O	1:H:244:MET:CG	2.52	0.58
1:I:292:THR:HG1	1:I:295:SER:HG	1.51	0.58
1:K:135:PHE:HB3	1:K:231:PHE:CD1	2.38	0.58
1:K:286:THR:HG22	1:K:296:TYR:OH	2.04	0.58
1:L:300:VAL:CG1	1:L:301:PRO:HD2	2.32	0.58
1:L:415:GLU:OE1	1:L:416:HIS:CE1	2.56	0.58
1:M:120:GLU:O	1:M:123:GLY:N	2.32	0.58
1:M:349:VAL:O	1:M:405:MET:HE1	2.04	0.58
1:N:162:THR:HG22	1:N:163:ASP:H	1.68	0.58
1:N:355:LEU:O	1:N:356:ASP:C	2.46	0.58
2:O:753:ALA:HA	2:O:756:ARG:HG2	1.84	0.58
1:B:365:PRO:O	1:B:367:PRO:HD3	2.03	0.58
1:C:51:MET:HE2	1:I:325:SER:OG	2.04	0.58
1:C:182:GLU:HB3	1:C:200:LYS:HD2	1.85	0.58
1:C:346:ALA:O	1:C:349:VAL:HG22	2.03	0.58
1:G:321:ARG:O	1:G:323:PRO:HD3	2.03	0.58
1:H:151:ASN:HB2	1:H:227:LEU:HD22	1.86	0.58
1:H:302:GLY:C	1:H:303:TYR:CD2	2.81	0.58
1:I:141:ASP:HB3	1:I:147:THR:HG21	1.84	0.58
1:I:300:VAL:HG12	1:I:303:TYR:CD2	2.39	0.58
1:J:160:ALA:HB2	1:J:188:HIS:HB2	1.85	0.58
1:J:201:TYR:O	1:J:202:ALA:CB	2.51	0.58
1:J:305:ALA:O	1:J:306:PRO:C	2.45	0.58
1:K:244:MET:O	1:K:337:VAL:HB	2.04	0.58
1:N:166:GLU:C	1:N:168:CYS:H	2.11	0.58
1:A:345:LEU:O	1:A:349:VAL:HG22	2.03	0.58
1:A:422:GLU:O	1:A:426:ASP:CB	2.52	0.58
1:B:135:PHE:O	1:B:194:GLN:HA	2.04	0.58
1:D:399:PHE:HZ	1:D:409:LEU:CD1	2.16	0.58
1:E:91:ARG:HD2	1:E:92:PHE:O	2.02	0.58
1:G:182:GLU:O	1:G:200:LYS:HG3	2.03	0.58
1:G:218:VAL:O	1:G:222:ALA:HB2	2.04	0.58
1:H:129:LEU:HD22	1:H:131:PRO:CG	2.33	0.58
1:H:268:SER:O	1:H:271:ALA:CB	2.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:406:VAL:HA	1:I:414:PHE:CD1	2.39	0.58
1:K:142:GLU:CD	1:K:142:GLU:H	2.12	0.58
1:K:310:ALA:CB	1:K:368:ILE:HD12	2.33	0.58
1:L:28:ILE:HD11	1:L:413:LEU:CD2	2.34	0.58
1:M:427:MET:CE	2:T:759:ASN:CB	2.72	0.58
2:X:749:GLU:CA	2:X:752:ASN:HB2	2.33	0.58
1:A:184:GLU:N	1:A:198:ASP:O	2.37	0.58
1:B:64:GLU:O	1:B:65:GLU:C	2.45	0.58
1:C:167:ASN:ND2	1:C:170:ARG:NH1	2.52	0.58
1:C:167:ASN:OD1	1:C:170:ARG:NH1	2.36	0.58
1:D:117:LYS:HD2	1:D:121:ASP:OD1	2.04	0.58
1:D:377:LYS:HA	1:D:380:ARG:NH2	2.18	0.58
1:E:105:GLU:CG	1:E:106:GLY:H	2.17	0.58
1:E:289:THR:O	1:E:341:ALA:HB2	2.04	0.58
1:E:371:ASN:OD1	1:E:373:TYR:HB2	2.03	0.58
1:F:131:PRO:HG2	1:F:199:PHE:HE1	1.67	0.58
1:G:125:SER:OG	1:G:126:ASP:N	2.34	0.58
1:G:382:GLU:C	1:G:383:ASN:HD22	2.11	0.58
1:J:22:ARG:NH2	1:M:170:ARG:NH2	2.52	0.58
1:J:96:ILE:O	1:J:97:TYR:CD1	2.56	0.58
1:J:274:PHE:CE1	1:J:354:GLY:HA3	2.39	0.58
1:K:346:ALA:O	1:K:347:LEU:HD23	2.03	0.58
1:K:443:GLN:NE2	2:U:758:LYS:NZ	2.51	0.58
1:L:207:SER:O	1:L:211:ILE:CD1	2.51	0.58
1:L:219:LYS:NZ	1:M:444:TYR:O	2.31	0.58
1:M:137:LEU:HD23	1:M:229:ALA:HA	1.85	0.58
1:N:281:HIS:O	1:N:284:SER:HB2	2.04	0.58
2:P:758:LYS:HG3	2:P:759:ASN:OD1	2.04	0.58
1:A:328:ILE:HD13	1:A:328:ILE:N	2.19	0.57
1:A:370:ARG:HD2	1:A:371:ASN:O	2.04	0.57
1:B:281:HIS:HB3	1:B:405:MET:HE3	1.86	0.57
1:B:319:LEU:HD21	1:B:336:SER:HB3	1.85	0.57
1:C:132:GLU:HB2	1:C:245:HIS:HB2	1.85	0.57
1:C:141:ASP:OD1	1:C:147:THR:HG22	2.03	0.57
1:C:150:LEU:HD13	1:C:192:PRO:C	2.29	0.57
1:D:308:TYR:CD1	1:D:372:ILE:HD13	2.39	0.57
1:E:240:ASN:ND2	1:E:303:TYR:CB	2.58	0.57
1:F:62:ARG:HG3	2:X:754:HIS:CE1	2.39	0.57
1:F:249:SER:HA	1:F:258:PHE:CE1	2.39	0.57
1:G:207:SER:O	1:G:211:ILE:HG13	2.04	0.57
1:I:370:ARG:O	1:I:372:ILE:N	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:112:LEU:HD22	1:J:116:LEU:CD1	2.33	0.57
1:J:132:GLU:HB2	1:J:245:HIS:HB2	1.86	0.57
1:L:297:LYS:CD	1:M:429:ARG:O	2.52	0.57
1:N:317:SER:HB3	1:N:373:TYR:CE1	2.39	0.57
2:U:747:MET:O	2:U:751:GLN:CB	2.48	0.57
2:V:748:LEU:C	2:V:752:ASN:HB2	2.29	0.57
2:W:747:MET:O	2:W:751:GLN:HG3	2.03	0.57
2:1:746:LYS:N	2:1:749:GLU:H	2.01	0.57
1:A:60:PHE:CD2	2:O:758:LYS:HD2	2.38	0.57
1:B:373:TYR:CD2	2:Z:746:LYS:HB3	2.39	0.57
1:C:182:GLU:OE2	1:C:200:LYS:HD3	2.04	0.57
1:D:169:ARG:NH2	1:D:195:HIS:HD1	2.02	0.57
1:D:243:GLY:HA3	1:D:298:ARG:HH12	1.69	0.57
1:E:206:ARG:CG	1:E:206:ARG:NH1	2.65	0.57
1:G:159:LEU:HD12	1:M:32:ILE:HG23	1.86	0.57
1:G:182:GLU:HB3	1:G:200:LYS:CE	2.34	0.57
1:G:265:LEU:O	1:G:326:ARG:NH1	2.37	0.57
1:H:77:PHE:CD1	1:H:92:PHE:CZ	2.92	0.57
1:H:269:GLU:HA	1:H:269:GLU:OE2	2.03	0.57
1:K:212:GLN:O	1:K:213:THR:C	2.47	0.57
1:L:100:ASP:O	1:L:102:THR:N	2.37	0.57
1:M:60:PHE:HB3	2:T:758:LYS:CG	2.33	0.57
1:M:135:PHE:CE1	1:M:195:HIS:O	2.57	0.57
1:M:427:MET:SD	2:T:759:ASN:CG	2.87	0.57
1:N:119:MET:HE1	1:N:127:PHE:CA	2.34	0.57
1:N:140:LEU:HD12	1:N:226:GLY:C	2.29	0.57
2:O:751:GLN:HA	2:O:754:HIS:HB2	1.85	0.57
1:B:27:ASP:OD1	1:B:31:THR:HB	2.04	0.57
1:B:311:TRP:HZ3	1:B:322:ILE:HG13	1.70	0.57
1:D:169:ARG:NE	1:F:36:GLU:OE2	2.34	0.57
1:E:162:THR:CG2	1:E:169:ARG:HH22	2.17	0.57
1:F:136:PHE:HA	1:F:193:GLY:O	2.04	0.57
1:F:184:GLU:O	1:F:185:ALA:HB2	2.03	0.57
1:J:289:THR:O	1:J:290:ASN:ND2	2.36	0.57
1:J:415:GLU:HG2	1:J:416:HIS:ND1	2.20	0.57
1:K:97:TYR:CE2	1:K:103:PRO:CB	2.84	0.57
1:M:191:ALA:HB3	1:M:194:GLN:OE1	2.04	0.57
1:N:107:ASP:O	1:N:108:PRO:C	2.47	0.57
2:Y:747:MET:O	2:Y:751:GLN:N	2.29	0.57
1:A:150:LEU:CD1	1:A:192:PRO:HB2	2.35	0.57
1:B:20:TYR:CD2	1:E:170:ARG:HD3	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:156:TYR:CD2	1:N:56:SER:HB3	2.39	0.57
1:C:106:GLY:O	1:C:413:LEU:HD21	2.05	0.57
1:D:346:ALA:O	1:D:349:VAL:HG23	2.05	0.57
1:D:406:VAL:HA	1:D:414:PHE:CD1	2.39	0.57
1:G:264:ASP:O	1:G:265:LEU:HB2	2.03	0.57
1:H:95:ASP:OD1	1:H:109:ARG:NH2	2.37	0.57
1:H:406:VAL:HG22	1:H:414:PHE:CZ	2.39	0.57
1:K:57:ILE:C	1:K:59:GLY:H	2.13	0.57
1:K:159:LEU:HG	1:L:32:ILE:CD1	2.35	0.57
1:L:127:PHE:CZ	1:L:248:LEU:HD22	2.40	0.57
1:M:194:GLN:C	1:M:195:HIS:ND1	2.62	0.57
1:N:119:MET:HG2	1:N:124:PHE:HB2	1.86	0.57
1:N:334:VAL:O	1:N:334:VAL:HG12	2.02	0.57
1:A:134:GLU:CD	1:A:189:GLU:OE1	2.48	0.57
1:B:6:ARG:HH22	1:B:47:ASP:CG	2.11	0.57
1:C:231:PHE:HB3	1:C:339:PRO:HB2	1.85	0.57
1:C:380:ARG:NH1	1:C:387:ASP:OD2	2.38	0.57
1:D:109:ARG:CG	1:D:344:TYR:CE2	2.87	0.57
1:E:5:THR:H	1:E:8:ASP:HB2	1.69	0.57
1:E:250:LEU:HD12	1:E:274:PHE:CE1	2.39	0.57
1:F:298:ARG:HH12	3:F:501:GLN:C	2.12	0.57
1:G:182:GLU:HB3	1:G:200:LYS:HE2	1.87	0.57
1:I:35:VAL:HG11	1:I:70:LEU:HD21	1.86	0.57
1:J:141:ASP:O	1:J:142:GLU:C	2.48	0.57
1:K:311:TRP:CZ2	1:K:367:PRO:HD3	2.39	0.57
1:L:136:PHE:CD1	1:L:235:PRO:HG3	2.39	0.57
1:L:138:PHE:CE2	1:L:150:LEU:HD23	2.39	0.57
1:M:243:GLY:CA	1:M:298:ARG:HH12	2.18	0.57
1:N:376:SER:O	1:N:380:ARG:HB3	2.05	0.57
2:O:751:GLN:HB3	2:O:755:PHE:CE1	2.40	0.57
1:A:48:ASN:OD1	1:A:72:PRO:HD2	2.05	0.57
1:A:131:PRO:HG2	1:A:211:ILE:HD11	1.87	0.57
1:C:413:LEU:O	1:C:414:PHE:C	2.48	0.57
1:D:169:ARG:CD	1:D:186:SER:HB2	2.34	0.57
1:F:63:ILE:HG13	2:X:747:MET:CE	2.34	0.57
1:H:184:GLU:O	1:H:185:ALA:HB2	2.04	0.57
1:H:201:TYR:HD1	1:H:201:TYR:C	2.13	0.57
1:J:243:GLY:CA	1:J:298:ARG:NH1	2.67	0.57
1:K:111:ASN:O	1:K:114:ARG:HG2	2.05	0.57
1:K:164:LEU:O	1:K:168:CYS:CB	2.53	0.57
1:K:169:ARG:HE	1:K:195:HIS:CD2	2.18	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:97:TYR:CZ	1:M:103:PRO:HB3	2.40	0.57
2:W:757:TYR:C	2:W:759:ASN:N	2.60	0.57
1:A:28:ILE:HG22	1:A:29:LEU:HG	1.87	0.57
1:B:124:PHE:N	1:B:124:PHE:CD1	2.71	0.57
1:C:63:ILE:HG22	1:C:63:ILE:O	2.03	0.57
1:C:372:ILE:HG21	1:C:385:ILE:HG21	1.87	0.57
1:D:23:LEU:CD1	1:D:70:LEU:HD23	2.35	0.57
1:E:27:ASP:OD2	1:E:29:LEU:N	2.37	0.57
1:E:221:ILE:HD12	1:E:224:LYS:HZ1	1.70	0.57
1:E:430:THR:HG22	1:F:300:VAL:HG11	1.87	0.57
1:F:433:HIS:O	1:F:434:PRO:C	2.47	0.57
1:G:151:ASN:OD1	1:G:164:LEU:HB2	2.04	0.57
1:J:315:ASN:HD21	1:J:370:ARG:NH1	2.03	0.57
1:K:167:ASN:CG	1:K:170:ARG:HH11	2.12	0.57
1:K:216:LEU:CD2	1:N:159:LEU:HD13	2.35	0.57
1:K:281:HIS:NE2	1:K:404:VAL:HG11	2.20	0.57
1:M:425:TRP:HE1	1:M:429:ARG:HD3	1.69	0.57
1:N:392:LEU:HG	1:N:392:LEU:O	2.04	0.57
2:U:749:GLU:C	2:U:752:ASN:HB3	2.30	0.57
1:B:172:ILE:O	1:B:176:LEU:HG	2.05	0.57
1:B:369:ASP:O	1:B:371:ASN:N	2.37	0.57
1:C:131:PRO:HG2	1:C:199:PHE:HD1	1.69	0.57
1:E:275:ILE:O	1:E:279:VAL:HG23	2.05	0.57
1:G:194:GLN:HE22	1:G:241:GLY:C	2.13	0.57
1:G:268:SER:O	1:G:271:ALA:HB3	2.05	0.57
1:G:321:ARG:HB3	1:G:333:GLU:HB3	1.85	0.57
1:H:302:GLY:HA2	2:Y:750:GLY:CA	2.34	0.57
1:I:91:ARG:HD2	1:I:92:PHE:N	2.19	0.57
1:N:119:MET:HE1	1:N:127:PHE:N	2.19	0.57
1:D:221:ILE:O	1:D:222:ALA:C	2.48	0.57
1:F:191:ALA:HB1	1:F:192:PRO:HD2	1.87	0.57
1:G:380:ARG:HH22	2:T:746:LYS:NZ	2.03	0.57
1:H:338:ASP:HB2	1:H:339:PRO:HD2	1.87	0.57
1:H:418:ILE:O	1:H:422:GLU:OE1	2.22	0.57
1:J:391:THR:O	1:J:392:LEU:C	2.46	0.57
1:L:321:ARG:O	1:L:323:PRO:HD3	2.05	0.57
1:L:375:MET:HB2	1:L:380:ARG:CB	2.34	0.57
1:M:60:PHE:CD1	1:M:60:PHE:C	2.83	0.57
1:A:112:LEU:HD22	1:A:116:LEU:HD11	1.87	0.57
1:B:185:ALA:HA	1:N:36:GLU:O	2.05	0.57
1:B:291:PRO:HB2	1:B:421:LYS:NZ	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:331:ARG:O	1:B:331:ARG:HG2	2.04	0.57
1:C:34:ASN:OD1	1:I:159:LEU:CD2	2.52	0.57
1:E:53:ASP:C	1:E:53:ASP:OD2	2.48	0.57
1:E:377:LYS:HA	1:E:380:ARG:CZ	2.35	0.57
1:F:16:GLU:O	1:F:16:GLU:HG3	2.05	0.57
1:F:212:GLN:OE1	1:F:212:GLN:HA	2.04	0.57
1:K:346:ALA:C	1:K:347:LEU:HD23	2.30	0.57
1:L:42:LEU:O	1:L:45:ALA:HB3	2.05	0.57
1:L:192:PRO:CD	2:S:757:TYR:HD2	2.17	0.57
1:L:214:PHE:O	1:L:215:LYS:C	2.48	0.57
1:L:306:PRO:HG2	1:L:336:SER:HB3	1.87	0.57
1:M:19:LYS:HA	1:M:39:VAL:CG1	2.35	0.57
2:Q:753:ALA:O	2:Q:757:TYR:CE1	2.58	0.57
2:S:753:ALA:O	2:S:757:TYR:HD1	1.87	0.57
2:X:746:LYS:C	2:X:749:GLU:H	2.13	0.57
2:2:753:ALA:O	2:2:757:TYR:CE1	2.58	0.57
1:B:344:TYR:H	1:B:344:TYR:HD1	1.53	0.56
1:D:223:ARG:HG3	1:D:223:ARG:NH1	2.20	0.56
1:D:296:TYR:HB3	1:D:390:ALA:O	2.04	0.56
1:E:5:THR:HG22	1:E:8:ASP:CG	2.30	0.56
1:F:64:GLU:O	1:F:65:GLU:C	2.46	0.56
1:F:85:GLU:N	1:F:85:GLU:OE1	2.38	0.56
1:F:109:ARG:HB2	1:F:344:TYR:CE2	2.40	0.56
1:H:265:LEU:O	1:H:326:ARG:NH1	2.37	0.56
1:I:166:GLU:CG	1:I:167:ASN:H	2.17	0.56
1:J:162:THR:HG22	1:J:163:ASP:N	2.20	0.56
1:K:6:ARG:NH2	1:K:46:LEU:HB2	2.20	0.56
1:L:37:ILE:HD13	1:L:41:GLN:CB	2.34	0.56
1:L:151:ASN:HD21	1:L:165:GLY:H	1.53	0.56
1:L:203:GLY:O	1:L:204:ALA:C	2.47	0.56
1:M:17:ASN:HD21	1:M:19:LYS:HE3	1.69	0.56
2:X:748:LEU:O	2:X:748:LEU:HD22	2.05	0.56
1:A:64:GLU:O	1:A:65:GLU:C	2.48	0.56
1:A:163:ASP:CB	1:G:83:THR:CG2	2.77	0.56
1:C:243:GLY:HA3	1:C:298:ARG:HH12	1.67	0.56
1:D:91:ARG:NH2	1:D:213:THR:OG1	2.39	0.56
1:D:264:ASP:O	1:D:265:LEU:HB2	2.05	0.56
1:D:291:PRO:HB2	1:D:421:LYS:HE3	1.87	0.56
1:E:125:SER:HB3	1:E:253:ASN:H	1.70	0.56
1:E:303:TYR:CD1	2:W:753:ALA:HB2	2.40	0.56
1:E:402:ASN:C	1:E:402:ASN:OD1	2.48	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:91:ARG:HH11	1:I:91:ARG:HG3	1.70	0.56
1:I:255:VAL:HG12	1:I:256:ASN:H	1.70	0.56
1:J:84:ALA:HB2	1:J:88:LYS:HZ1	1.68	0.56
1:K:27:ASP:OD2	1:K:29:LEU:N	2.38	0.56
1:K:273:HIS:CE1	1:K:361:LYS:HG3	2.40	0.56
1:L:124:PHE:HD2	1:L:252:LYS:HB3	1.70	0.56
1:M:63:ILE:C	1:M:64:GLU:CG	2.78	0.56
1:N:302:GLY:HA3	2:V:749:GLU:C	2.31	0.56
1:N:319:LEU:CD2	1:N:320:ILE:HD13	2.34	0.56
2:Q:754:HIS:HA	2:Q:757:TYR:CE1	2.39	0.56
1:B:7:GLU:HA	1:B:10:GLU:OE2	2.05	0.56
1:B:139:LYS:HA	1:B:227:LEU:CD2	2.36	0.56
1:B:237:PHE:C	1:B:237:PHE:CD2	2.83	0.56
1:B:300:VAL:HG11	1:D:430:THR:HG21	1.88	0.56
1:B:338:ASP:C	1:B:338:ASP:OD2	2.48	0.56
1:C:244:MET:HE2	1:C:337:VAL:HG12	1.87	0.56
1:D:52:PHE:C	1:D:52:PHE:HD2	2.14	0.56
1:D:114:ARG:CZ	1:D:115:ILE:HD11	2.35	0.56
1:D:184:GLU:O	1:D:185:ALA:HB2	2.05	0.56
1:E:35:VAL:HG11	1:E:70:LEU:HD21	1.87	0.56
1:E:221:ILE:HD12	1:E:224:LYS:NZ	2.20	0.56
1:E:359:LYS:NZ	1:E:359:LYS:CB	2.68	0.56
1:F:28:ILE:HD13	1:F:345:LEU:HD11	1.87	0.56
1:F:304:GLU:OE2	3:F:501:GLN:OE1	2.24	0.56
1:G:25:PHE:O	1:G:32:ILE:CD1	2.51	0.56
1:G:54:GLY:C	1:G:56:SER:H	2.13	0.56
1:G:83:THR:HG21	1:G:89:VAL:CB	2.30	0.56
1:H:215:LYS:O	1:H:219:LYS:HG3	2.05	0.56
1:H:308:TYR:CE2	1:H:380:ARG:CZ	2.88	0.56
1:I:244:MET:HE2	1:I:338:ASP:C	2.31	0.56
1:I:283:THR:HG22	1:I:388:LEU:HD23	1.86	0.56
1:J:37:ILE:HG13	1:J:38:PRO:N	2.17	0.56
1:J:212:GLN:CD	1:J:343:PRO:HG2	2.30	0.56
1:J:307:CYS:O	1:J:388:LEU:HB2	2.05	0.56
1:K:137:LEU:HD23	1:K:228:HIS:O	2.06	0.56
1:K:170:ARG:NH2	1:L:22:ARG:HH22	2.03	0.56
1:K:338:ASP:HB2	1:K:339:PRO:HD2	1.87	0.56
1:L:161:PRO:HG2	1:L:169:ARG:HH22	1.70	0.56
1:N:161:PRO:O	1:N:162:THR:O	2.23	0.56
1:N:208:CYS:HA	1:N:211:ILE:HB	1.86	0.56
1:N:316:ARG:CG	1:N:373:TYR:CE1	2.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:406:VAL:HA	1:N:414:PHE:HD1	1.70	0.56
2:W:757:TYR:O	2:W:758:LYS:C	2.46	0.56
1:A:274:PHE:O	1:A:278:ILE:HG13	2.06	0.56
1:C:168:CYS:O	1:C:172:ILE:HG13	2.05	0.56
1:E:28:ILE:HB	1:E:57:ILE:O	2.06	0.56
1:E:55:SER:O	1:E:62:ARG:HG2	2.05	0.56
1:E:86:LYS:HD3	1:E:86:LYS:H	1.69	0.56
1:E:129:LEU:O	1:E:131:PRO:HD3	2.05	0.56
1:F:27:ASP:OD2	1:F:29:LEU:N	2.39	0.56
1:F:141:ASP:OD2	1:F:141:ASP:N	2.38	0.56
1:F:244:MET:CB	1:F:339:PRO:HD3	2.34	0.56
1:G:259:PHE:CE2	1:G:261:GLU:HG3	2.40	0.56
1:G:357:GLY:CA	1:G:362:LEU:HD22	2.26	0.56
1:G:386:VAL:HG12	1:G:387:ASP:O	2.06	0.56
1:H:114:ARG:NH1	1:H:115:ILE:CD1	2.68	0.56
1:H:437:ARG:O	1:H:441:MET:HB2	2.06	0.56
1:I:161:PRO:O	1:I:162:THR:HG23	2.06	0.56
1:K:109:ARG:HA	1:K:344:TYR:CD2	2.40	0.56
1:K:132:GLU:HB2	1:K:245:HIS:HB2	1.88	0.56
1:M:202:ALA:HB3	1:M:207:SER:CB	2.36	0.56
1:M:295:SER:OG	1:M:338:ASP:OD1	2.21	0.56
1:N:6:ARG:HH22	1:N:47:ASP:CG	2.14	0.56
1:N:313:ALA:O	1:N:314:GLN:CB	2.53	0.56
1:B:23:LEU:HD13	1:B:70:LEU:HD23	1.87	0.56
1:B:160:ALA:O	1:B:161:PRO:O	2.24	0.56
1:B:285:PHE:CE1	1:B:350:LEU:CD2	2.88	0.56
1:C:68:MET:HG2	1:C:96:ILE:HG22	1.87	0.56
1:D:325:SER:OG	1:D:329:SER:HB3	2.05	0.56
1:D:371:ASN:OD1	1:D:374:VAL:HG22	2.05	0.56
1:E:82:TRP:CH2	1:E:220:THR:HG21	2.41	0.56
1:E:91:ARG:HD2	1:E:92:PHE:N	2.21	0.56
1:F:362:LEU:CD1	1:F:362:LEU:N	2.69	0.56
1:G:6:ARG:NH2	1:G:47:ASP:CG	2.63	0.56
1:G:372:ILE:CD1	1:G:372:ILE:N	2.53	0.56
1:K:107:ASP:HB3	1:K:110:ASN:OD1	2.06	0.56
1:K:221:ILE:HD13	1:K:221:ILE:H	1.69	0.56
1:L:372:ILE:HD13	1:L:372:ILE:N	2.12	0.56
1:N:91:ARG:CD	1:N:92:PHE:N	2.68	0.56
1:N:226:GLY:C	1:N:227:LEU:HG	2.31	0.56
2:R:759:ASN:O	2:R:760:ARG:HG3	2.05	0.56
2:Z:752:ASN:HA	2:Z:755:PHE:CD2	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:56:SER:HB3	1:I:156:TYR:HE2	1.69	0.56
1:D:129:LEU:HD21	1:D:246:CYS:SG	2.45	0.56
1:E:124:PHE:CD2	1:E:252:LYS:HB2	2.39	0.56
1:F:11:LYS:HE3	1:F:15:GLU:OE1	2.06	0.56
1:G:129:LEU:O	1:G:131:PRO:HD3	2.06	0.56
1:G:129:LEU:HB3	1:G:207:SER:OG	2.05	0.56
1:I:231:PHE:O	1:I:339:PRO:HG2	2.05	0.56
1:J:181:PHE:HB3	1:J:183:ILE:CD1	2.35	0.56
1:J:431:GLN:HG3	1:K:435:TRP:NE1	2.21	0.56
1:L:6:ARG:CZ	1:L:46:LEU:HB2	2.35	0.56
1:L:113:LYS:HA	1:L:116:LEU:HB2	1.88	0.56
1:L:152:ASP:OD2	1:L:154:GLY:N	2.38	0.56
1:L:374:VAL:HG23	1:L:375:MET:N	2.20	0.56
2:O:750:GLY:O	2:O:754:HIS:HB2	2.06	0.56
1:B:400:LYS:HA	1:B:414:PHE:CZ	2.41	0.56
1:C:51:MET:CE	1:I:325:SER:OG	2.54	0.56
1:C:250:LEU:C	1:C:251:PHE:HD1	2.13	0.56
1:C:316:ARG:CG	2:R:747:MET:HG2	2.36	0.56
1:D:414:PHE:C	1:D:414:PHE:CD2	2.83	0.56
1:E:58:GLU:O	1:E:61:VAL:CG2	2.53	0.56
1:E:119:MET:CE	1:E:126:ASP:O	2.53	0.56
1:F:24:GLN:HB2	1:F:92:PHE:O	2.06	0.56
1:F:25:PHE:CD1	1:F:57:ILE:HD11	2.40	0.56
1:F:380:ARG:HA	1:F:383:ASN:HD22	1.69	0.56
1:G:78:VAL:HG23	1:G:91:ARG:NH1	2.20	0.56
1:G:106:GLY:HA2	1:G:413:LEU:HD11	1.88	0.56
1:G:169:ARG:NH2	1:G:188:HIS:HB2	2.21	0.56
1:G:303:TYR:CD1	2:T:753:ALA:HB1	2.41	0.56
1:G:317:SER:HB2	1:G:373:TYR:HE1	1.70	0.56
1:I:303:TYR:O	1:I:304:GLU:HB2	2.05	0.56
1:J:234:LYS:HG3	1:J:234:LYS:O	2.05	0.56
1:J:391:THR:C	1:J:393:ALA:N	2.62	0.56
1:K:34:ASN:ND2	1:K:34:ASN:O	2.39	0.56
1:L:20:TYR:OH	1:L:36:GLU:CD	2.49	0.56
1:L:21:ILE:HD13	1:L:39:VAL:HA	1.88	0.56
1:N:34:ASN:ND2	1:N:34:ASN:C	2.62	0.56
1:A:140:LEU:HD12	1:A:227:LEU:N	2.20	0.56
1:C:122:LEU:HD11	1:C:359:LYS:NZ	2.20	0.56
1:D:54:GLY:HA3	1:D:68:MET:CE	2.35	0.56
1:D:129:LEU:HD12	1:D:347:LEU:CD2	2.36	0.56
1:F:9:ILE:CD1	1:F:74:LEU:HD12	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:93:ILE:CG2	1:F:109:ARG:NH2	2.69	0.56
1:F:234:LYS:CE	1:F:239:VAL:O	2.54	0.56
1:F:321:ARG:O	1:F:333:GLU:HB3	2.04	0.56
1:F:371:ASN:O	1:F:374:VAL:HG22	2.06	0.56
1:G:60:PHE:HD1	2:P:755:PHE:CE2	2.23	0.56
1:I:91:ARG:HD2	1:I:91:ARG:C	2.31	0.56
1:L:323:PRO:O	1:L:324:ALA:C	2.49	0.56
1:M:281:HIS:ND1	1:M:404:VAL:HG11	2.21	0.56
2:O:751:GLN:HA	2:O:754:HIS:CB	2.36	0.56
2:O:751:GLN:O	2:O:755:PHE:CD1	2.59	0.56
1:A:208:CYS:O	1:A:212:GLN:HG2	2.05	0.56
1:B:317:SER:HB3	1:B:373:TYR:CZ	2.39	0.56
1:C:56:SER:HB3	1:I:156:TYR:CD2	2.40	0.56
1:D:312:SER:HB3	1:D:314:GLN:O	2.06	0.56
1:E:48:ASN:OD1	1:E:71:TYR:HA	2.05	0.56
1:E:308:TYR:HD1	1:E:372:ILE:CG1	2.19	0.56
1:E:415:GLU:O	1:E:419:GLU:HB2	2.06	0.56
1:H:52:PHE:CZ	1:H:96:ILE:HD12	2.41	0.56
1:I:3:LYS:N	1:I:75:ASN:OD1	2.38	0.56
1:I:403:GLU:O	1:I:406:VAL:HB	2.06	0.56
1:J:261:GLU:CD	1:J:261:GLU:H	2.12	0.56
1:K:275:ILE:N	1:K:275:ILE:CD1	2.68	0.56
1:L:37:ILE:HD12	1:L:37:ILE:C	2.30	0.56
1:L:134:GLU:CD	3:L:501:GLN:HG3	2.31	0.56
1:L:308:TYR:O	1:L:319:LEU:HB2	2.05	0.56
1:M:24:GLN:OE1	1:M:32:ILE:HD11	2.06	0.56
1:M:255:VAL:O	1:M:256:ASN:C	2.48	0.56
2:Z:748:LEU:HD13	2:Z:748:LEU:O	2.06	0.56
2:1:751:GLN:CA	2:1:754:HIS:HB2	2.35	0.56
1:A:27:ASP:HA	1:A:57:ILE:HG23	1.87	0.56
1:A:273:HIS:O	1:A:357:GLY:HA3	2.06	0.56
1:B:51:MET:CE	1:E:325:SER:OG	2.54	0.56
1:B:192:PRO:CD	2:Z:757:TYR:HD2	2.19	0.56
1:B:265:LEU:O	1:B:326:ARG:NH1	2.39	0.56
1:D:22:ARG:NH1	1:H:166:GLU:OE2	2.39	0.56
1:D:134:GLU:OE2	3:D:501:GLN:NE2	2.38	0.56
1:D:404:VAL:O	1:D:408:ALA:CB	2.46	0.56
1:E:91:ARG:HH21	1:E:93:ILE:HD11	1.71	0.56
1:E:211:ILE:CG2	1:E:343:PRO:HG3	2.34	0.56
1:G:314:GLN:OE1	1:M:64:GLU:HB2	2.06	0.56
1:I:406:VAL:HG22	1:I:414:PHE:CE1	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:97:TYR:O	1:J:98:ASN:O	2.24	0.56
1:K:278:ILE:O	1:K:282:ALA:HB2	2.06	0.56
1:K:392:LEU:HD12	1:K:392:LEU:O	2.05	0.56
1:L:391:THR:O	1:L:392:LEU:C	2.50	0.56
1:N:27:ASP:C	1:N:27:ASP:OD2	2.49	0.56
1:N:200:LYS:CG	1:N:201:TYR:HB2	2.36	0.56
1:N:414:PHE:CE2	1:N:418:ILE:HG13	2.41	0.56
2:P:746:LYS:C	2:P:748:LEU:H	2.13	0.56
1:A:160:ALA:CB	1:A:169:ARG:NH2	2.65	0.55
1:A:315:ASN:O	1:A:318:PRO:HD3	2.06	0.55
1:B:403:GLU:O	1:B:407:LYS:HG2	2.06	0.55
1:D:315:ASN:ND2	1:D:316:ARG:HE	2.05	0.55
1:E:293:VAL:CG1	1:E:428:PHE:CE2	2.89	0.55
1:G:232:MET:HE1	1:I:436:GLU:O	2.06	0.55
1:G:276:ALA:HB2	1:G:364:ALA:CA	2.36	0.55
1:I:214:PHE:O	1:I:218:VAL:HG23	2.06	0.55
1:I:255:VAL:HG12	1:I:256:ASN:N	2.22	0.55
1:J:391:THR:OG1	1:J:393:ALA:HB3	2.06	0.55
1:K:16:GLU:O	1:K:17:ASN:HB3	2.05	0.55
1:L:96:ILE:HG21	1:L:104:PHE:CD2	2.41	0.55
1:L:167:ASN:O	1:L:170:ARG:HB2	2.07	0.55
1:L:349:VAL:HB	1:L:405:MET:SD	2.46	0.55
1:M:237:PHE:CD1	1:M:238:GLY:N	2.74	0.55
1:N:375:MET:HE3	1:N:379:GLU:HG2	1.88	0.55
2:O:748:LEU:O	2:O:748:LEU:HD13	2.07	0.55
2:P:754:HIS:HA	2:P:757:TYR:CD1	2.41	0.55
1:D:379:GLU:O	1:D:382:GLU:HB2	2.04	0.55
1:E:201:TYR:HD2	1:E:201:TYR:C	2.14	0.55
1:F:243:GLY:C	1:F:339:PRO:HD3	2.31	0.55
1:F:316:ARG:HG2	1:F:373:TYR:CD1	2.41	0.55
1:F:371:ASN:N	1:F:371:ASN:ND2	2.49	0.55
1:G:6:ARG:HH22	1:G:47:ASP:CG	2.14	0.55
1:G:96:ILE:O	1:G:104:PHE:CB	2.53	0.55
1:G:285:PHE:HB2	1:G:349:VAL:HG21	1.88	0.55
1:H:4:TYR:HB3	1:H:9:ILE:HD11	1.87	0.55
1:H:127:PHE:O	1:H:128:ASN:CG	2.48	0.55
1:H:406:VAL:HG22	1:H:414:PHE:CE1	2.41	0.55
1:J:156:TYR:CZ	1:J:157:PHE:HE1	2.25	0.55
1:K:139:LYS:HE3	1:K:151:ASN:HA	1.87	0.55
1:K:368:ILE:CD1	1:K:385:ILE:HD13	2.36	0.55
1:L:155:GLY:HA2	1:L:189:GLU:O	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:402:ASN:OD1	1:L:405:MET:N	2.39	0.55
1:L:436:GLU:OE2	1:M:297:LYS:NZ	2.39	0.55
1:M:290:ASN:HD22	1:M:299:LEU:HD21	1.71	0.55
1:N:27:ASP:OD1	1:N:33:LYS:HE3	2.06	0.55
1:N:162:THR:HG21	1:N:164:LEU:HD13	1.87	0.55
2:Q:751:GLN:O	2:Q:755:PHE:HD1	1.88	0.55
2:V:752:ASN:HA	2:V:755:PHE:CE2	2.41	0.55
1:A:23:LEU:HD13	1:A:70:LEU:HD23	1.88	0.55
1:A:206:ARG:CG	1:A:206:ARG:NH1	2.66	0.55
1:B:46:LEU:C	1:B:48:ASN:H	2.14	0.55
1:B:189:GLU:OE2	3:B:501:GLN:HB2	2.07	0.55
1:C:266:GLN:HB3	1:C:326:ARG:HD2	1.87	0.55
1:C:321:ARG:HB2	1:C:335:ARG:HD2	1.87	0.55
1:D:22:ARG:HH22	1:H:170:ARG:HH22	1.51	0.55
1:E:95:ASP:HB3	1:E:97:TYR:CE1	2.40	0.55
1:E:189:GLU:CB	1:E:194:GLN:HG2	2.35	0.55
1:E:214:PHE:CE2	1:E:218:VAL:HG21	2.41	0.55
1:I:171:ASP:OD1	1:I:221:ILE:CG2	2.55	0.55
1:I:326:ARG:CD	1:I:330:THR:HG23	2.37	0.55
1:I:427:MET:HE2	2:S:759:ASN:CB	2.36	0.55
1:J:126:ASP:OD2	1:J:126:ASP:N	2.39	0.55
1:J:371:ASN:O	1:J:375:MET:HG3	2.06	0.55
1:L:25:PHE:N	1:L:25:PHE:CD2	2.72	0.55
1:M:61:VAL:HB	1:M:419:GLU:OE1	2.06	0.55
1:M:163:ASP:O	1:M:167:ASN:N	2.40	0.55
1:N:22:ARG:HB3	1:N:34:ASN:OD1	2.06	0.55
2:Y:746:LYS:O	2:Y:747:MET:C	2.50	0.55
1:A:96:ILE:O	1:A:97:TYR:CD1	2.59	0.55
1:B:171:ASP:OD2	1:B:225:HIS:HE1	1.89	0.55
1:B:232:MET:HG3	1:B:233:PRO:HD2	1.87	0.55
1:B:418:ILE:O	1:B:422:GLU:HG3	2.06	0.55
1:D:98:ASN:HB2	1:D:102:THR:O	2.06	0.55
1:D:281:HIS:ND1	1:D:353:ALA:CB	2.70	0.55
1:E:91:ARG:C	1:E:91:ARG:CD	2.76	0.55
1:E:221:ILE:CD1	1:E:224:LYS:HD3	2.35	0.55
1:E:286:THR:HA	1:E:289:THR:OG1	2.07	0.55
1:F:51:MET:HE3	1:F:67:ASP:OD1	2.07	0.55
1:F:67:ASP:O	1:F:68:MET:HG2	2.07	0.55
1:F:125:SER:OG	1:F:126:ASP:OD2	2.16	0.55
1:F:128:ASN:OD1	1:F:128:ASN:N	2.38	0.55
1:H:363:GLU:N	1:H:363:GLU:OE2	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:9:ILE:CG1	1:I:74:LEU:HD12	2.35	0.55
1:I:82:TRP:HE1	1:I:221:ILE:HD11	1.71	0.55
1:I:135:PHE:HB3	1:I:231:PHE:CD1	2.40	0.55
1:I:404:VAL:O	1:I:407:LYS:CB	2.48	0.55
1:J:435:TRP:O	1:J:439:GLN:HG2	2.06	0.55
1:N:28:ILE:HD13	1:N:28:ILE:C	2.31	0.55
1:N:97:TYR:CG	1:N:103:PRO:HA	2.42	0.55
1:N:105:GLU:OE1	1:N:412:HIS:CB	2.55	0.55
1:N:302:GLY:HA2	2:V:746:LYS:O	2.05	0.55
2:R:752:ASN:C	2:R:752:ASN:HD22	2.14	0.55
1:B:3:LYS:CB	1:B:75:ASN:OD1	2.54	0.55
1:B:112:LEU:O	1:B:113:LYS:C	2.49	0.55
1:B:391:THR:C	1:B:393:ALA:N	2.63	0.55
1:D:152:ASP:OD2	1:D:152:ASP:C	2.50	0.55
1:E:323:PRO:HB2	1:E:331:ARG:HD3	1.89	0.55
1:F:252:LYS:HZ3	1:F:252:LYS:HA	1.71	0.55
1:H:57:ILE:O	1:H:57:ILE:CG2	2.54	0.55
1:H:182:GLU:O	1:H:199:PHE:CB	2.53	0.55
1:H:388:LEU:O	1:H:389:PRO:C	2.49	0.55
1:I:302:GLY:C	2:Q:750:GLY:HA2	2.30	0.55
1:J:67:ASP:O	1:J:68:MET:HG3	2.06	0.55
1:J:134:GLU:O	1:J:242:SER:HB3	2.05	0.55
1:K:97:TYR:CD2	1:K:103:PRO:CA	2.85	0.55
1:K:169:ARG:NE	1:K:195:HIS:HD2	2.03	0.55
1:K:424:GLU:O	1:K:425:TRP:C	2.49	0.55
1:N:316:ARG:HG3	1:N:373:TYR:CE1	2.41	0.55
2:T:746:LYS:O	2:T:749:GLU:HB2	2.06	0.55
1:A:27:ASP:OD1	1:A:31:THR:OG1	2.22	0.55
1:A:234:LYS:HB2	1:A:298:ARG:HB2	1.89	0.55
1:B:63:ILE:HD12	2:W:751:GLN:HE21	1.71	0.55
1:C:5:THR:CG2	1:C:8:ASP:OD1	2.55	0.55
1:D:55:SER:O	1:D:62:ARG:HG2	2.07	0.55
1:D:136:PHE:HE2	1:D:194:GLN:HB2	1.72	0.55
1:D:169:ARG:HG3	1:D:169:ARG:NH2	2.20	0.55
1:D:433:HIS:O	1:D:435:TRP:N	2.40	0.55
1:E:54:GLY:C	1:E:56:SER:H	2.15	0.55
1:E:250:LEU:CD1	1:E:274:PHE:CE1	2.89	0.55
1:F:131:PRO:CG	1:F:211:ILE:HD11	2.37	0.55
1:F:150:LEU:HD13	1:F:192:PRO:O	2.07	0.55
1:F:170:ARG:HB3	1:F:174:LEU:HD22	1.89	0.55
1:H:214:PHE:C	1:H:214:PHE:CD2	2.84	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:250:LEU:HD12	1:H:274:PHE:CD1	2.42	0.55
1:H:404:VAL:HG13	1:H:405:MET:CE	2.36	0.55
1:I:132:GLU:OE2	1:I:245:HIS:ND1	2.35	0.55
1:J:277:GLY:HA3	1:J:353:ALA:O	2.06	0.55
1:K:84:ALA:HB2	1:K:88:LYS:HE3	1.88	0.55
1:K:275:ILE:O	1:K:279:VAL:HG23	2.07	0.55
1:K:373:TYR:CG	2:1:747:MET:HG3	2.41	0.55
1:L:61:VAL:CG1	1:L:420:ALA:HB2	2.32	0.55
1:M:290:ASN:O	1:M:296:TYR:CE1	2.57	0.55
1:M:392:LEU:O	1:M:392:LEU:HG	2.06	0.55
1:N:78:VAL:O	1:N:90:ALA:HA	2.07	0.55
1:N:288:VAL:O	1:N:291:PRO:HD3	2.07	0.55
2:V:752:ASN:ND2	2:V:755:PHE:HE2	2.02	0.55
2:Y:750:GLY:O	2:Y:754:HIS:HB2	2.07	0.55
1:C:22:ARG:HD3	1:C:34:ASN:OD1	2.06	0.55
1:D:350:LEU:C	1:D:352:ALA:N	2.60	0.55
1:G:181:PHE:HB3	1:G:183:ILE:HG23	1.89	0.55
1:H:201:TYR:C	1:H:201:TYR:CD1	2.85	0.55
1:J:373:TYR:CD2	2:2:746:LYS:O	2.60	0.55
1:K:11:LYS:O	1:K:15:GLU:HG3	2.06	0.55
1:K:299:LEU:HD13	1:K:306:PRO:O	2.06	0.55
1:K:380:ARG:HG3	1:K:385:ILE:HD12	1.89	0.55
1:K:427:MET:HG3	2:V:759:ASN:ND2	2.21	0.55
1:N:271:ALA:O	1:N:275:ILE:HG12	2.06	0.55
2:2:748:LEU:O	2:2:748:LEU:HD13	2.07	0.55
1:B:96:ILE:CG2	1:B:104:PHE:HB3	2.37	0.55
1:B:269:GLU:O	1:B:270:THR:C	2.50	0.55
1:C:423:ILE:HG21	2:Q:755:PHE:CE2	2.42	0.55
1:D:172:ILE:HD12	1:D:172:ILE:N	2.22	0.55
1:E:308:TYR:CD2	1:E:387:ASP:HB3	2.42	0.55
1:G:5:THR:HG22	1:G:8:ASP:CG	2.30	0.55
1:H:309:VAL:HG23	1:H:386:VAL:O	2.07	0.55
1:I:273:HIS:HB3	1:I:358:ILE:HA	1.88	0.55
1:K:208:CYS:SG	1:K:347:LEU:CD1	2.95	0.55
1:K:214:PHE:CZ	1:K:218:VAL:HG21	2.41	0.55
1:K:370:ARG:NH1	1:K:372:ILE:CD1	2.70	0.55
1:M:280:LYS:HD3	1:M:281:HIS:NE2	2.22	0.55
1:M:345:LEU:HD21	1:M:413:LEU:HD11	1.88	0.55
1:N:233:PRO:HD2	1:N:294:ASN:ND2	2.21	0.55
1:N:260:ASP:HB2	1:N:268:SER:HA	1.89	0.55
1:A:360:ASN:O	1:A:362:LEU:CD1	2.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:93:ILE:HG22	1:C:94:CYS:N	2.22	0.55
1:D:160:ALA:CB	1:D:169:ARG:HH12	2.20	0.55
1:E:96:ILE:CG2	1:E:104:PHE:HB2	2.37	0.55
1:E:129:LEU:HD13	1:E:131:PRO:HG3	1.88	0.55
1:E:131:PRO:O	1:E:133:PRO:HD3	2.07	0.55
1:E:236:LEU:O	1:E:239:VAL:HG12	2.06	0.55
1:F:93:ILE:CG2	1:F:94:CYS:N	2.70	0.55
1:G:85:GLU:O	1:G:86:LYS:HB2	2.06	0.55
1:G:214:PHE:CZ	1:G:218:VAL:HG21	2.42	0.55
1:H:55:SER:HB3	1:H:62:ARG:HH21	1.72	0.55
1:H:270:THR:CG2	1:H:358:ILE:HG21	2.36	0.55
1:I:353:ALA:HB2	1:I:405:MET:HE1	1.88	0.55
1:J:71:TYR:N	1:J:71:TYR:HD1	2.04	0.55
1:J:112:LEU:HD22	1:J:116:LEU:HD12	1.89	0.55
1:J:292:THR:HG21	1:K:444:TYR:CE1	2.41	0.55
1:J:377:LYS:HA	1:J:380:ARG:CZ	2.35	0.55
1:L:63:ILE:HG22	1:L:64:GLU:HG2	1.88	0.55
1:M:169:ARG:HH21	1:M:195:HIS:CD2	2.25	0.55
1:M:203:GLY:O	1:M:206:ARG:N	2.40	0.55
1:M:286:THR:HG22	1:M:395:ALA:HB1	1.89	0.55
1:N:136:PHE:CE1	1:N:235:PRO:HG3	2.42	0.55
1:A:107:ASP:OD2	1:A:110:ASN:ND2	2.40	0.55
1:A:302:GLY:HA2	2:P:747:MET:CE	2.33	0.55
1:C:63:ILE:C	1:C:64:GLU:HG3	2.32	0.55
1:C:333:GLU:OE2	1:C:335:ARG:HD2	2.06	0.55
1:D:28:ILE:HD11	1:D:417:PHE:CD1	2.42	0.55
1:D:316:ARG:CZ	1:D:372:ILE:HD11	2.37	0.55
1:D:345:LEU:O	1:D:346:ALA:C	2.49	0.55
1:E:59:GLY:O	1:E:62:ARG:HG3	2.07	0.55
1:E:316:ARG:NH1	1:E:372:ILE:H	2.05	0.55
1:H:63:ILE:HG21	2:2:747:MET:HE3	1.89	0.55
1:I:265:LEU:N	1:I:265:LEU:HD12	2.21	0.55
1:I:282:ALA:HA	1:I:285:PHE:CE2	2.42	0.55
1:K:243:GLY:HA3	1:K:298:ARG:HH12	1.70	0.55
1:K:262:ASN:ND2	1:K:262:ASN:H	2.04	0.55
1:M:98:ASN:O	1:M:100:ASP:N	2.40	0.55
1:M:319:LEU:HB3	1:M:320:ILE:HD12	1.88	0.55
1:N:98:ASN:CB	1:N:102:THR:HB	2.20	0.55
1:N:171:ASP:CB	1:N:225:HIS:HE1	2.19	0.55
1:N:349:VAL:HG23	1:N:350:LEU:N	2.22	0.55
1:A:111:ASN:OD1	1:A:114:ARG:NH1	2.39	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:318:PRO:O	1:A:335:ARG:HD3	2.07	0.54
1:B:77:PHE:HE1	1:B:90:ALA:HB1	1.72	0.54
1:D:170:ARG:O	1:D:172:ILE:N	2.40	0.54
1:E:380:ARG:HB3	1:E:380:ARG:HH11	1.72	0.54
1:F:142:GLU:CD	1:F:142:GLU:N	2.57	0.54
1:F:169:ARG:NE	1:F:187:HIS:O	2.39	0.54
1:G:159:LEU:HD12	1:M:32:ILE:CG2	2.38	0.54
1:G:168:CYS:C	1:G:170:ARG:N	2.63	0.54
1:H:60:PHE:HB3	2:2:758:LYS:CB	2.37	0.54
1:H:290:ASN:OD1	1:H:336:SER:O	2.25	0.54
1:K:156:TYR:O	1:K:157:PHE:HB2	2.06	0.54
1:K:238:GLY:O	1:K:239:VAL:CG2	2.55	0.54
1:K:389:PRO:HB2	1:K:395:ALA:HB2	1.89	0.54
1:L:175:GLU:HG3	1:L:221:ILE:HD11	1.89	0.54
1:M:129:LEU:HG	1:M:347:LEU:HD21	1.89	0.54
1:M:157:PHE:N	1:M:157:PHE:CD1	2.74	0.54
1:N:129:LEU:HD13	1:N:131:PRO:HG3	1.88	0.54
1:N:169:ARG:CD	1:N:195:HIS:ND1	2.70	0.54
2:Z:748:LEU:O	2:Z:752:ASN:N	2.40	0.54
1:A:240:ASN:ND2	3:A:501:GLN:HA	2.22	0.54
1:B:34:ASN:O	1:B:34:ASN:CG	2.50	0.54
1:B:160:ALA:O	1:B:166:GLU:CG	2.50	0.54
1:C:86:LYS:O	1:C:86:LYS:HG3	2.07	0.54
1:E:171:ASP:O	1:E:175:GLU:CG	2.55	0.54
1:E:201:TYR:C	1:E:201:TYR:CD2	2.85	0.54
1:F:3:LYS:CB	1:F:75:ASN:OD1	2.55	0.54
1:F:281:HIS:CE1	1:F:404:VAL:HG11	2.41	0.54
1:F:293:VAL:HG11	1:F:428:PHE:CD2	2.42	0.54
1:I:28:ILE:HD13	1:I:345:LEU:HD11	1.89	0.54
1:I:393:ALA:C	1:I:395:ALA:N	2.60	0.54
1:J:243:GLY:HA2	1:J:298:ARG:HH12	1.73	0.54
1:L:26:THR:CG2	1:L:212:GLN:HE21	2.21	0.54
1:M:72:PRO:O	1:M:74:LEU:HD22	2.06	0.54
1:M:131:PRO:HG2	1:M:199:PHE:HE1	1.71	0.54
1:N:91:ARG:NH2	1:N:213:THR:OG1	2.39	0.54
2:2:753:ALA:O	2:2:757:TYR:CD1	2.59	0.54
1:A:20:TYR:OH	1:A:36:GLU:OE2	2.17	0.54
1:C:77:PHE:CZ	1:C:79:ILE:HD11	2.42	0.54
1:C:78:VAL:CG2	1:C:91:ARG:NH1	2.70	0.54
1:C:97:TYR:CE1	1:C:103:PRO:HB3	2.43	0.54
1:D:194:GLN:NE2	1:D:241:GLY:O	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:262:ASN:O	1:D:263:ALA:HB2	2.06	0.54
1:E:51:MET:HE1	1:E:67:ASP:HB3	1.88	0.54
1:E:115:ILE:HG22	1:E:115:ILE:O	2.07	0.54
1:F:52:PHE:CE2	1:F:54:GLY:HA2	2.41	0.54
1:F:169:ARG:CZ	1:F:187:HIS:O	2.56	0.54
1:F:423:ILE:HA	1:F:426:ASP:HB3	1.88	0.54
1:G:135:PHE:HB3	1:G:231:PHE:CE1	2.42	0.54
1:H:53:ASP:OD2	1:H:55:SER:CB	2.55	0.54
1:H:432:VAL:HG11	1:N:235:PRO:O	2.07	0.54
1:I:261:GLU:H	1:I:261:GLU:CD	2.15	0.54
1:J:326:ARG:O	1:J:327:GLY:C	2.50	0.54
1:K:208:CYS:CA	1:K:211:ILE:HD12	2.34	0.54
1:K:302:GLY:HA3	2:1:750:GLY:HA3	1.88	0.54
1:K:388:LEU:O	1:K:389:PRO:C	2.50	0.54
1:L:178:GLU:N	1:L:178:GLU:CD	2.65	0.54
1:L:188:HIS:ND1	1:L:189:GLU:N	2.51	0.54
1:M:140:LEU:O	1:M:147:THR:CG2	2.55	0.54
1:M:293:VAL:HG11	1:M:428:PHE:CD2	2.41	0.54
1:N:25:PHE:CE1	1:N:33:LYS:HB2	2.42	0.54
1:N:252:LYS:C	1:N:253:ASN:CG	2.74	0.54
2:Z:747:MET:O	2:Z:751:GLN:HG3	2.08	0.54
2:1:755:PHE:O	2:1:759:ASN:ND2	2.41	0.54
1:B:163:ASP:O	1:B:167:ASN:CB	2.56	0.54
1:D:24:GLN:HA	1:D:34:ASN:HB3	1.90	0.54
1:D:111:ASN:ND2	1:D:111:ASN:C	2.65	0.54
1:D:158:ASP:C	1:D:159:LEU:HD12	2.32	0.54
1:E:96:ILE:O	1:E:97:TYR:HD1	1.90	0.54
1:F:182:GLU:CB	1:F:200:LYS:HD2	2.32	0.54
1:F:399:PHE:CZ	1:F:409:LEU:CD1	2.85	0.54
1:G:109:ARG:NH2	1:G:113:LYS:CE	2.71	0.54
1:G:211:ILE:O	1:G:214:PHE:HB3	2.07	0.54
1:H:127:PHE:CD2	1:H:351:LEU:HD13	2.41	0.54
1:H:244:MET:HE2	1:H:338:ASP:C	2.33	0.54
1:H:271:ALA:O	1:H:274:PHE:N	2.40	0.54
1:I:278:ILE:HG22	1:I:278:ILE:O	2.06	0.54
1:J:258:PHE:HA	1:J:271:ALA:HB2	1.89	0.54
1:K:6:ARG:CZ	1:K:46:LEU:CB	2.85	0.54
1:K:431:GLN:HB3	1:K:433:HIS:NE2	2.22	0.54
1:L:292:THR:O	1:L:295:SER:HB2	2.07	0.54
1:M:7:GLU:HG2	1:M:8:ASP:N	2.21	0.54
1:M:53:ASP:OD2	1:M:55:SER:OG	2.26	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:243:GLY:HA3	1:M:298:ARG:HH12	1.71	0.54
1:N:156:TYR:CE2	1:N:157:PHE:CE1	2.95	0.54
2:T:749:GLU:O	2:T:752:ASN:HB3	2.08	0.54
1:A:158:ASP:OD2	1:G:33:LYS:HE2	2.08	0.54
1:D:338:ASP:HB2	1:D:339:PRO:HD2	1.88	0.54
1:E:240:ASN:N	2:W:757:TYR:OH	2.41	0.54
1:E:435:TRP:CZ3	1:F:428:PHE:HB2	2.41	0.54
1:F:136:PHE:CB	1:F:138:PHE:HE1	2.20	0.54
1:F:300:VAL:CG1	1:F:301:PRO:CD	2.85	0.54
1:G:21:ILE:CD1	1:G:42:LEU:HD13	2.37	0.54
1:H:82:TRP:NE1	1:H:221:ILE:HD11	2.19	0.54
1:H:91:ARG:HH11	1:H:91:ARG:HG3	1.71	0.54
1:H:214:PHE:CD2	1:H:214:PHE:O	2.61	0.54
1:H:272:LYS:HE3	1:H:364:ALA:CB	2.37	0.54
1:K:19:LYS:CB	1:K:87:GLY:HA3	2.37	0.54
1:K:217:VAL:HG13	1:K:221:ILE:HD11	1.90	0.54
1:K:311:TRP:NE1	1:K:365:PRO:O	2.40	0.54
1:L:9:ILE:HD13	1:L:9:ILE:N	2.20	0.54
1:L:34:ASN:HD22	1:L:34:ASN:C	2.14	0.54
1:L:114:ARG:NH2	1:L:407:LYS:O	2.36	0.54
1:M:214:PHE:CE1	1:M:218:VAL:CG2	2.91	0.54
1:N:14:LYS:O	1:N:15:GLU:C	2.51	0.54
2:W:750:GLY:O	2:W:753:ALA:HB3	2.07	0.54
2:2:748:LEU:O	2:2:748:LEU:HD22	2.07	0.54
1:B:281:HIS:ND1	1:B:402:ASN:ND2	2.56	0.54
1:C:119:MET:HG2	1:C:124:PHE:HB2	1.88	0.54
1:C:136:PHE:CZ	1:C:194:GLN:HG3	2.43	0.54
1:D:355:LEU:O	1:D:356:ASP:C	2.50	0.54
1:E:55:SER:OG	1:E:62:ARG:HB3	2.07	0.54
1:E:134:GLU:O	1:E:242:SER:HB3	2.08	0.54
1:F:63:ILE:HG13	2:X:747:MET:HE3	1.89	0.54
1:F:368:ILE:HD11	1:F:385:ILE:HD11	1.88	0.54
1:G:53:ASP:CG	1:G:65:GLU:HG3	2.32	0.54
1:H:108:PRO:O	1:H:109:ARG:C	2.50	0.54
1:H:189:GLU:OE1	1:H:196:GLU:OE1	2.24	0.54
1:H:302:GLY:C	2:Y:750:GLY:HA2	2.33	0.54
1:I:182:GLU:HB3	1:I:200:LYS:HB2	1.88	0.54
1:I:338:ASP:HB2	1:I:339:PRO:HD2	1.89	0.54
1:I:372:ILE:HG23	1:I:373:TYR:CD1	2.43	0.54
1:J:72:PRO:HB2	1:J:92:PHE:CD2	2.43	0.54
1:K:178:GLU:C	1:K:179:MET:HG2	2.31	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:186:SER:HB3	1:K:197:ILE:HG12	1.90	0.54
1:K:258:PHE:CZ	1:K:274:PHE:CD1	2.86	0.54
1:K:302:GLY:CA	2:1:750:GLY:CA	2.81	0.54
1:K:353:ALA:HB2	1:K:405:MET:CE	2.37	0.54
1:L:264:ASP:HB3	1:L:265:LEU:HD12	1.89	0.54
1:M:164:LEU:O	1:M:168:CYS:CB	2.38	0.54
1:M:176:LEU:HB2	1:M:183:ILE:HD11	1.88	0.54
1:M:368:ILE:HG21	1:M:372:ILE:HG23	1.87	0.54
1:N:93:ILE:HD13	1:N:209:ASP:CG	2.33	0.54
2:Z:746:LYS:C	2:Z:749:GLU:H	2.15	0.54
1:A:96:ILE:H	1:A:110:ASN:HD21	1.56	0.54
1:A:105:GLU:OE1	1:A:412:HIS:HB3	2.08	0.54
1:B:441:MET:HE3	1:D:138:PHE:CD1	2.43	0.54
1:C:259:PHE:HB2	1:C:330:THR:OG1	2.08	0.54
1:D:136:PHE:CD2	1:D:193:GLY:O	2.60	0.54
1:D:323:PRO:HG2	1:D:331:ARG:HH21	1.72	0.54
1:E:113:LYS:O	1:E:117:LYS:HG3	2.08	0.54
1:E:207:SER:O	1:E:210:ASP:N	2.41	0.54
1:E:280:LYS:O	1:E:281:HIS:ND1	2.41	0.54
1:F:52:PHE:HE2	1:F:54:GLY:HA2	1.73	0.54
1:F:91:ARG:CZ	1:F:93:ILE:CD1	2.85	0.54
1:F:106:GLY:HA2	1:F:413:LEU:HG	1.89	0.54
1:F:139:LYS:O	1:F:147:THR:HG23	2.07	0.54
1:H:191:ALA:HA	2:Y:757:TYR:HE2	1.73	0.54
1:I:22:ARG:HG2	1:I:22:ARG:HH11	1.73	0.54
1:I:268:SER:O	1:I:271:ALA:HB3	2.08	0.54
1:J:139:LYS:HD2	1:J:149:GLU:HG2	1.89	0.54
1:J:223:ARG:CG	1:J:223:ARG:NH1	2.66	0.54
1:K:9:ILE:O	1:K:13:VAL:HG23	2.07	0.54
1:K:44:LYS:HG2	1:K:49:LYS:HB2	1.90	0.54
1:K:112:LEU:CD2	1:K:116:LEU:HD21	2.37	0.54
1:L:21:ILE:HD12	1:L:21:ILE:N	2.21	0.54
1:L:208:CYS:SG	1:L:343:PRO:HB3	2.48	0.54
1:M:298:ARG:NH2	1:M:336:SER:O	2.41	0.54
1:M:368:ILE:HD12	1:M:385:ILE:CD1	2.27	0.54
1:N:274:PHE:CE1	1:N:354:GLY:HA3	2.43	0.54
2:R:758:LYS:HE3	2:R:758:LYS:O	2.08	0.54
2:1:753:ALA:O	2:1:757:TYR:CD1	2.61	0.54
1:B:329:SER:O	1:B:330:THR:C	2.51	0.54
1:D:172:ILE:HG22	1:D:176:LEU:HD12	1.88	0.54
1:D:314:GLN:O	1:D:315:ASN:HB2	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:24:GLN:HE21	1:E:91:ARG:HD3	1.72	0.54
1:E:309:VAL:HG22	1:E:319:LEU:HD22	1.90	0.54
1:F:273:HIS:O	1:F:276:ALA:HB3	2.08	0.54
1:F:393:ALA:O	1:F:397:GLU:HG2	2.07	0.54
1:G:163:ASP:HA	1:G:166:GLU:HB3	1.90	0.54
1:H:60:PHE:HB3	2:2:758:LYS:CG	2.36	0.54
1:H:63:ILE:CG2	2:2:747:MET:HE3	2.37	0.54
1:H:316:ARG:HG3	2:Y:747:MET:HG2	1.88	0.54
1:H:329:SER:O	1:H:331:ARG:NE	2.41	0.54
1:I:355:LEU:O	1:I:356:ASP:C	2.49	0.54
1:K:129:LEU:HD22	1:K:131:PRO:HD3	1.90	0.54
1:K:263:ALA:O	1:K:264:ASP:C	2.51	0.54
1:K:341:ALA:O	1:K:343:PRO:HD3	2.08	0.54
1:K:393:ALA:O	1:K:394:GLU:C	2.48	0.54
1:M:372:ILE:HG21	1:M:385:ILE:HD13	1.89	0.54
1:N:422:GLU:O	1:N:423:ILE:C	2.49	0.54
1:A:96:ILE:C	1:A:97:TYR:HD1	2.16	0.54
1:A:129:LEU:HD23	1:A:130:GLY:N	2.23	0.54
1:A:174:LEU:O	1:A:177:GLU:HB2	2.08	0.54
1:B:116:LEU:HD23	1:B:351:LEU:CD2	2.37	0.54
1:B:404:VAL:HG22	1:B:405:MET:N	2.22	0.54
1:C:98:ASN:C	1:C:100:ASP:H	2.16	0.54
1:D:150:LEU:HD22	1:D:192:PRO:O	2.07	0.54
1:D:232:MET:HE2	1:D:294:ASN:ND2	2.23	0.54
1:E:24:GLN:O	1:E:94:CYS:N	2.39	0.54
1:E:111:ASN:OD1	1:E:114:ARG:NH1	2.41	0.54
1:E:310:ALA:HB1	1:E:368:ILE:CD1	2.27	0.54
1:E:318:PRO:CG	1:E:321:ARG:HG3	2.38	0.54
1:E:380:ARG:O	1:E:385:ILE:HB	2.08	0.54
1:F:346:ALA:O	1:F:347:LEU:C	2.51	0.54
1:G:250:LEU:HB2	1:G:258:PHE:CZ	2.43	0.54
1:G:300:VAL:HG12	1:G:301:PRO:HD2	1.90	0.54
1:I:13:VAL:HG13	1:I:18:VAL:HB	1.89	0.54
1:I:27:ASP:OD1	1:I:33:LYS:HE3	2.07	0.54
1:I:338:ASP:C	1:I:338:ASP:OD2	2.50	0.54
1:I:404:VAL:CG2	1:I:405:MET:N	2.71	0.54
1:J:27:ASP:OD2	1:J:27:ASP:C	2.51	0.54
1:J:91:ARG:NH2	1:J:93:ILE:HD11	2.23	0.54
1:J:194:GLN:HE22	1:J:241:GLY:C	2.16	0.54
1:J:285:PHE:HB3	1:J:405:MET:SD	2.48	0.54
1:K:373:TYR:HD2	2:1:746:LYS:HB3	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:119:MET:CE	1:L:250:LEU:HD22	2.37	0.54
1:L:250:LEU:HG	1:L:274:PHE:CE1	2.42	0.54
1:M:253:ASN:O	1:M:255:VAL:HG23	2.08	0.54
2:V:747:MET:O	2:V:751:GLN:N	2.29	0.54
1:C:60:PHE:CD2	2:Q:758:LYS:HG3	2.43	0.54
1:D:423:ILE:HD13	2:Y:755:PHE:HZ	1.71	0.54
1:F:136:PHE:HB3	1:F:138:PHE:CE1	2.43	0.54
1:G:346:ALA:O	1:G:347:LEU:C	2.50	0.54
1:G:368:ILE:HG13	1:G:372:ILE:HD12	1.88	0.54
1:I:300:VAL:HG12	1:I:303:TYR:CE2	2.42	0.54
1:I:323:PRO:CB	1:I:331:ARG:HH11	2.20	0.54
1:J:141:ASP:O	1:J:143:LYS:N	2.41	0.54
1:J:162:THR:HG22	1:J:163:ASP:H	1.73	0.54
1:K:310:ALA:HB2	1:K:385:ILE:HG23	1.89	0.54
1:N:52:PHE:CE1	1:N:70:LEU:CD1	2.89	0.54
1:N:285:PHE:HB3	1:N:405:MET:SD	2.48	0.54
2:P:747:MET:O	2:P:751:GLN:HB2	2.07	0.54
2:S:753:ALA:C	2:S:757:TYR:CE1	2.86	0.54
1:A:323:PRO:HD2	1:A:331:ARG:O	2.08	0.53
1:B:11:LYS:O	1:B:15:GLU:HB2	2.07	0.53
1:B:96:ILE:HG22	1:B:104:PHE:HB2	1.89	0.53
1:B:208:CYS:HB3	1:B:343:PRO:HB3	1.90	0.53
1:B:368:ILE:HD12	1:B:368:ILE:N	2.23	0.53
1:D:30:GLY:N	1:D:342:ASN:HD22	2.06	0.53
1:D:346:ALA:O	1:D:349:VAL:CG2	2.57	0.53
1:E:223:ARG:C	1:E:225:HIS:H	2.15	0.53
1:E:239:VAL:CG2	2:W:757:TYR:OH	2.55	0.53
1:G:104:PHE:C	1:G:106:GLY:H	2.15	0.53
1:H:435:TRP:CE3	1:N:428:PHE:HD1	2.27	0.53
1:I:4:TYR:CB	1:I:9:ILE:HD11	2.34	0.53
1:I:214:PHE:C	1:I:216:LEU:N	2.61	0.53
1:J:171:ASP:O	1:J:175:GLU:HB2	2.08	0.53
1:L:231:PHE:N	1:L:231:PHE:CD2	2.76	0.53
1:L:291:PRO:HG3	1:L:341:ALA:CA	2.34	0.53
1:M:42:LEU:HD12	1:M:46:LEU:CD2	2.38	0.53
1:M:51:MET:O	1:M:52:PHE:HB3	2.06	0.53
1:M:251:PHE:CD1	1:M:256:ASN:HA	2.42	0.53
1:N:25:PHE:CD1	1:N:25:PHE:O	2.61	0.53
1:N:112:LEU:HD22	1:N:116:LEU:CD1	2.38	0.53
2:1:749:GLU:C	2:1:752:ASN:HB3	2.33	0.53
2:1:751:GLN:O	2:1:754:HIS:CB	2.57	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:79:ILE:CD1	1:A:90:ALA:HB2	2.39	0.53
1:A:155:GLY:N	1:A:158:ASP:OD1	2.41	0.53
1:A:279:VAL:HG13	1:A:309:VAL:CG1	2.38	0.53
1:A:432:VAL:O	1:A:437:ARG:NH2	2.42	0.53
1:B:240:ASN:OD1	2:Z:757:TYR:CZ	2.61	0.53
1:E:32:ILE:O	1:E:32:ILE:HG23	2.06	0.53
1:F:63:ILE:HG22	1:F:64:GLU:CG	2.38	0.53
1:F:114:ARG:O	1:F:114:ARG:HG2	2.03	0.53
1:I:251:PHE:N	1:I:251:PHE:CD1	2.75	0.53
1:J:328:ILE:H	1:J:328:ILE:HD12	1.72	0.53
1:K:60:PHE:C	1:K:62:ARG:H	2.16	0.53
1:N:208:CYS:HB3	1:N:343:PRO:CB	2.38	0.53
2:W:747:MET:O	2:W:751:GLN:CG	2.56	0.53
2:1:751:GLN:O	2:1:753:ALA:N	2.41	0.53
1:A:19:LYS:HG2	1:A:87:GLY:HA3	1.91	0.53
1:A:276:ALA:HB2	1:A:364:ALA:HA	1.89	0.53
1:B:26:THR:HG21	1:B:212:GLN:HE21	1.73	0.53
1:C:71:TYR:CE2	1:C:97:TYR:CD2	2.96	0.53
1:C:119:MET:HA	1:C:122:LEU:HB2	1.90	0.53
1:D:9:ILE:HG13	1:D:74:LEU:HD12	1.89	0.53
1:H:106:GLY:C	1:H:413:LEU:HD21	2.33	0.53
1:H:207:SER:O	1:H:211:ILE:N	2.40	0.53
1:H:363:GLU:O	1:H:364:ALA:C	2.51	0.53
1:I:309:VAL:HG23	1:I:386:VAL:O	2.09	0.53
1:I:434:PRO:O	1:I:438:GLU:HG3	2.09	0.53
1:J:282:ALA:HA	1:J:285:PHE:CZ	2.43	0.53
1:J:312:SER:CB	1:J:315:ASN:HB2	2.38	0.53
1:J:380:ARG:HB3	1:J:385:ILE:HG21	1.90	0.53
1:K:57:ILE:C	1:K:59:GLY:N	2.63	0.53
1:L:9:ILE:HG22	1:L:77:PHE:CD2	2.43	0.53
1:L:115:ILE:HG23	1:L:351:LEU:HD22	1.90	0.53
1:L:381:MET:HE1	1:L:387:ASP:OD1	2.08	0.53
1:L:436:GLU:CD	1:M:297:LYS:HZ2	2.16	0.53
1:M:288:VAL:HG12	1:M:288:VAL:O	2.07	0.53
1:N:76:THR:O	1:N:91:ARG:NH1	2.42	0.53
1:N:443:GLN:OE1	1:N:444:TYR:CD2	2.62	0.53
1:A:231:PHE:O	1:A:232:MET:C	2.52	0.53
1:C:28:ILE:HG23	1:C:29:LEU:HG	1.90	0.53
1:C:134:GLU:CD	1:C:189:GLU:OE1	2.52	0.53
1:D:399:PHE:HZ	1:D:409:LEU:HD12	1.73	0.53
1:E:107:ASP:O	1:E:108:PRO:C	2.49	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:357:GLY:O	1:E:361:LYS:N	2.42	0.53
1:E:441:MET:HE3	1:F:230:THR:CG2	2.35	0.53
1:F:4:TYR:HE2	1:F:12:LEU:HD11	1.73	0.53
1:H:146:PRO:HB3	1:H:228:HIS:ND1	2.24	0.53
1:H:434:PRO:CG	1:N:434:PRO:HG2	2.38	0.53
1:J:149:GLU:C	1:J:150:LEU:O	2.48	0.53
1:K:376:SER:HB2	1:K:379:GLU:CB	2.39	0.53
1:L:26:THR:HG21	1:L:212:GLN:NE2	2.24	0.53
1:L:98:ASN:HD22	1:L:99:PRO:CD	2.20	0.53
1:L:127:PHE:CD1	1:L:250:LEU:HD23	2.43	0.53
1:N:27:ASP:OD2	1:N:29:LEU:N	2.40	0.53
1:N:150:LEU:HD13	1:N:192:PRO:HB2	1.91	0.53
1:N:435:TRP:CE3	1:N:435:TRP:O	2.61	0.53
2:Q:754:HIS:O	2:Q:757:TYR:HD1	1.91	0.53
1:A:141:ASP:OD2	1:A:141:ASP:C	2.52	0.53
1:C:140:LEU:HD12	1:C:226:GLY:C	2.33	0.53
1:D:22:ARG:CD	1:D:34:ASN:OD1	2.56	0.53
1:E:75:ASN:C	1:E:77:PHE:H	2.15	0.53
1:E:87:GLY:C	1:E:88:LYS:O	2.51	0.53
1:E:265:LEU:O	1:E:326:ARG:NH1	2.41	0.53
1:E:360:ASN:HB2	1:E:362:LEU:HD11	1.90	0.53
1:F:237:PHE:CG	1:F:238:GLY:N	2.77	0.53
1:F:326:ARG:HD3	1:F:330:THR:HG23	1.90	0.53
1:G:377:LYS:O	1:G:381:MET:SD	2.67	0.53
1:J:64:GLU:CB	1:M:314:GLN:NE2	2.72	0.53
1:J:111:ASN:O	1:J:111:ASN:ND2	2.42	0.53
1:L:243:GLY:CA	1:L:298:ARG:HH12	2.21	0.53
1:M:418:ILE:HG22	1:M:422:GLU:CG	2.38	0.53
1:A:18:VAL:CG2	1:A:79:ILE:HD11	2.37	0.53
1:A:208:CYS:HB3	1:A:343:PRO:CB	2.37	0.53
1:A:253:ASN:C	1:A:255:VAL:N	2.64	0.53
1:A:427:MET:O	1:A:431:GLN:HG2	2.09	0.53
1:B:34:ASN:HD22	1:E:159:LEU:HG	1.74	0.53
1:D:245:HIS:NE2	1:D:335:ARG:HB3	2.24	0.53
1:E:320:ILE:HG22	1:E:321:ARG:N	2.23	0.53
1:F:311:TRP:CH2	1:F:367:PRO:HG3	2.44	0.53
1:H:156:TYR:CZ	1:H:157:PHE:HE1	2.27	0.53
1:H:166:GLU:O	1:H:170:ARG:HG3	2.09	0.53
1:H:286:THR:O	1:H:286:THR:HG22	2.08	0.53
1:J:80:PHE:HB2	1:J:83:THR:HG23	1.91	0.53
1:J:323:PRO:O	1:J:326:ARG:NH2	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:164:LEU:O	1:L:168:CYS:CB	2.55	0.53
1:L:206:ARG:HG2	1:L:206:ARG:HH11	1.72	0.53
1:M:190:VAL:HG11	1:M:240:ASN:OD1	2.09	0.53
2:Y:751:GLN:HG3	2:Y:755:PHE:HE1	1.74	0.53
2:Y:751:GLN:NE2	2:Y:751:GLN:HA	2.24	0.53
1:A:96:ILE:C	1:A:97:TYR:CD1	2.86	0.53
1:A:205:VAL:HG23	1:A:206:ARG:N	2.23	0.53
1:B:260:ASP:HB3	1:B:263:ALA:HB3	1.90	0.53
1:B:377:LYS:HE2	1:B:387:ASP:OD1	2.08	0.53
1:C:63:ILE:C	1:C:64:GLU:CG	2.82	0.53
1:C:168:CYS:C	1:C:170:ARG:H	2.14	0.53
1:D:282:ALA:HA	1:D:285:PHE:CZ	2.43	0.53
1:E:418:ILE:N	1:E:418:ILE:HD12	2.24	0.53
1:F:173:VAL:HG22	1:F:197:ILE:HG21	1.91	0.53
1:G:110:ASN:HD22	1:G:113:LYS:HD2	1.74	0.53
1:I:82:TRP:O	1:I:83:THR:O	2.26	0.53
1:I:132:GLU:OE2	1:I:333:GLU:OE1	2.27	0.53
1:I:315:ASN:O	1:I:318:PRO:CD	2.56	0.53
1:I:418:ILE:O	1:I:422:GLU:CG	2.57	0.53
1:J:48:ASN:OD1	1:J:71:TYR:HA	2.08	0.53
1:J:57:ILE:O	1:J:59:GLY:N	2.42	0.53
1:J:181:PHE:HB3	1:J:183:ILE:HD12	1.91	0.53
1:J:284:SER:CB	1:J:402:ASN:HD22	2.22	0.53
1:L:232:MET:HE3	1:M:440:TYR:HB2	1.88	0.53
1:L:296:TYR:OH	1:L:395:ALA:CB	2.57	0.53
1:M:316:ARG:CG	1:M:373:TYR:CE1	2.91	0.53
1:A:102:THR:CG2	1:A:103:PRO:HD2	2.37	0.53
1:A:118:GLU:O	1:A:122:LEU:HB2	2.09	0.53
1:A:328:ILE:HD13	1:A:328:ILE:H	1.74	0.53
1:A:428:PHE:HB2	1:C:435:TRP:CZ3	2.44	0.53
1:B:197:ILE:HD13	1:B:214:PHE:CZ	2.33	0.53
1:B:208:CYS:HB3	1:B:343:PRO:CB	2.39	0.53
1:B:315:ASN:HD22	1:B:316:ARG:H	1.56	0.53
1:B:346:ALA:O	1:B:350:LEU:HG	2.09	0.53
1:C:150:LEU:HD13	1:C:192:PRO:CB	2.39	0.53
1:C:159:LEU:O	1:C:160:ALA:HB3	2.09	0.53
1:D:348:SER:O	1:D:352:ALA:HB2	2.09	0.53
1:E:34:ASN:ND2	1:E:34:ASN:C	2.66	0.53
1:G:237:PHE:CD1	1:G:238:GLY:N	2.77	0.53
1:I:53:ASP:OD2	1:I:55:SER:OG	2.25	0.53
1:J:6:ARG:NH2	1:J:46:LEU:HB2	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:50:VAL:HG12	1:J:51:MET:N	2.23	0.53
1:J:292:THR:HG21	1:K:444:TYR:HE1	1.73	0.53
1:J:306:PRO:HB3	1:J:319:LEU:HA	1.90	0.53
1:K:32:ILE:HG12	1:N:159:LEU:HD12	1.91	0.53
1:K:292:THR:HG23	1:K:295:SER:OG	2.09	0.53
1:L:12:LEU:HD23	1:L:16:GLU:HB2	1.90	0.53
1:L:303:TYR:O	1:L:304:GLU:HB2	2.09	0.53
1:L:355:LEU:O	1:L:359:LYS:CB	2.56	0.53
1:N:159:LEU:C	1:N:161:PRO:HD2	2.33	0.53
1:N:169:ARG:HG3	1:N:195:HIS:ND1	2.23	0.53
2:S:746:LYS:C	2:S:748:LEU:H	2.17	0.53
1:A:98:ASN:ND2	1:A:103:PRO:O	2.42	0.53
1:B:116:LEU:O	1:B:117:LYS:C	2.52	0.53
1:B:140:LEU:HD12	1:B:227:LEU:N	2.24	0.53
1:B:275:ILE:HG12	1:B:332:VAL:CG1	2.34	0.53
1:B:390:ALA:HB1	1:D:429:ARG:NH1	2.24	0.53
1:D:30:GLY:HA2	1:D:342:ASN:ND2	2.24	0.53
1:D:117:LYS:C	1:D:119:MET:N	2.66	0.53
1:D:136:PHE:HD2	1:D:194:GLN:HA	1.70	0.53
1:E:292:THR:HG21	1:F:444:TYR:CE2	2.43	0.53
1:E:302:GLY:C	2:W:750:GLY:CA	2.82	0.53
1:F:368:ILE:HG21	1:F:372:ILE:HB	1.89	0.53
1:F:418:ILE:HG22	1:F:422:GLU:OE2	2.09	0.53
1:G:64:GLU:O	1:G:65:GLU:C	2.52	0.53
1:H:151:ASN:HB2	1:H:227:LEU:CD2	2.39	0.53
1:I:400:LYS:CD	1:I:418:ILE:HG21	2.36	0.53
1:J:27:ASP:OD2	1:J:29:LEU:N	2.42	0.53
1:J:38:PRO:C	1:J:40:SER:N	2.66	0.53
1:K:216:LEU:HD21	1:N:159:LEU:CD1	2.38	0.53
1:K:370:ARG:HH12	1:K:372:ILE:HD11	1.73	0.53
1:L:34:ASN:O	1:L:34:ASN:ND2	2.42	0.53
1:L:98:ASN:N	1:L:102:THR:O	2.36	0.53
1:L:391:THR:O	1:L:393:ALA:N	2.42	0.53
1:M:248:LEU:O	1:M:332:VAL:N	2.42	0.53
2:Q:753:ALA:O	2:Q:757:TYR:CD1	2.61	0.53
2:2:747:MET:O	2:2:751:GLN:N	2.38	0.53
1:C:83:THR:O	1:C:84:ALA:HB2	2.07	0.53
1:C:161:PRO:HG2	1:C:169:ARG:HH22	1.74	0.53
1:D:63:ILE:HD11	2:Y:747:MET:HE3	1.89	0.53
1:E:329:SER:O	1:E:331:ARG:CD	2.49	0.53
1:E:342:ASN:O	1:E:343:PRO:C	2.51	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:345:LEU:O	1:F:349:VAL:HG22	2.09	0.53
1:G:134:GLU:OE2	1:G:189:GLU:OE1	2.27	0.53
1:G:159:LEU:HD13	1:M:216:LEU:HD11	1.91	0.53
1:H:284:SER:CB	1:H:402:ASN:HD22	2.21	0.53
1:J:316:ARG:HH21	2:2:750:GLY:HA2	1.74	0.53
1:J:360:ASN:HB3	1:J:362:LEU:HD13	1.90	0.53
1:K:134:GLU:OE2	1:K:196:GLU:OE1	2.27	0.53
1:K:136:PHE:CE2	1:K:194:GLN:HG3	2.44	0.53
1:K:371:ASN:OD1	1:K:371:ASN:N	2.41	0.53
1:K:399:PHE:HZ	1:K:409:LEU:CD1	2.22	0.53
1:L:9:ILE:H	1:L:9:ILE:CD1	2.08	0.53
1:L:28:ILE:HD11	1:L:413:LEU:HD23	1.91	0.53
1:L:77:PHE:CZ	1:L:79:ILE:HD11	2.43	0.53
1:L:179:MET:HE1	1:L:217:VAL:CG2	2.38	0.53
1:M:42:LEU:HD12	1:M:42:LEU:O	2.09	0.53
1:M:119:MET:HE2	1:M:351:LEU:HD21	1.90	0.53
1:N:168:CYS:O	1:N:169:ARG:C	2.52	0.53
1:N:408:ALA:O	1:N:409:LEU:HD23	2.09	0.53
2:T:748:LEU:O	2:T:748:LEU:HD13	2.08	0.53
1:A:177:GLU:HG2	1:A:183:ILE:HD11	1.91	0.52
1:B:371:ASN:O	1:B:375:MET:HG3	2.09	0.52
1:E:275:ILE:HD12	1:E:322:ILE:HD11	1.92	0.52
1:F:93:ILE:HG22	1:F:94:CYS:N	2.23	0.52
1:F:136:PHE:HB3	1:F:138:PHE:HE1	1.74	0.52
1:F:206:ARG:HG2	1:F:206:ARG:HH11	1.74	0.52
1:F:258:PHE:CD2	1:F:258:PHE:N	2.72	0.52
1:F:319:LEU:HD12	1:F:388:LEU:CD1	2.27	0.52
1:F:375:MET:HB3	1:F:379:GLU:CD	2.34	0.52
1:I:207:SER:O	1:I:211:ILE:HG12	2.09	0.52
1:I:300:VAL:CG1	1:I:303:TYR:CE2	2.91	0.52
1:J:89:VAL:HG12	1:J:90:ALA:N	2.24	0.52
1:K:19:LYS:CG	1:K:87:GLY:HA3	2.38	0.52
1:M:19:LYS:O	1:M:39:VAL:HG12	2.10	0.52
1:M:21:ILE:HG22	1:M:22:ARG:O	2.09	0.52
1:N:69:TYR:N	1:N:69:TYR:CD1	2.76	0.52
1:N:260:ASP:CB	1:N:268:SER:HA	2.39	0.52
1:N:303:TYR:H	1:N:303:TYR:HD2	1.53	0.52
1:C:100:ASP:OD1	1:C:102:THR:CG2	2.58	0.52
1:D:20:TYR:CE2	1:D:22:ARG:NH1	2.77	0.52
1:D:64:GLU:O	1:D:65:GLU:O	2.26	0.52
1:D:423:ILE:HG21	2:Y:755:PHE:CE2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:77:PHE:O	1:E:78:VAL:HG23	2.10	0.52
1:E:87:GLY:O	1:E:88:LYS:O	2.27	0.52
1:F:4:TYR:HB3	1:F:9:ILE:HD11	1.91	0.52
1:F:34:ASN:C	1:F:34:ASN:HD22	2.08	0.52
1:G:13:VAL:HG21	1:G:42:LEU:CD2	2.39	0.52
1:G:116:LEU:O	1:G:119:MET:HB3	2.10	0.52
1:G:194:GLN:NE2	1:G:242:SER:HA	2.24	0.52
1:H:281:HIS:CD2	1:H:353:ALA:CB	2.92	0.52
1:I:418:ILE:HD12	1:I:418:ILE:H	1.74	0.52
1:J:56:SER:HB3	1:M:156:TYR:CD2	2.44	0.52
1:J:83:THR:HG21	1:J:89:VAL:HB	1.91	0.52
1:L:284:SER:O	1:L:399:PHE:HD1	1.92	0.52
1:M:316:ARG:HG2	1:M:373:TYR:CE1	2.43	0.52
1:M:378:GLU:HA	1:M:381:MET:HB3	1.91	0.52
2:Y:754:HIS:HA	2:Y:757:TYR:CE1	2.45	0.52
1:A:127:PHE:CE1	1:A:274:PHE:CZ	2.96	0.52
1:A:162:THR:HG22	1:A:163:ASP:HB2	1.91	0.52
1:B:344:TYR:CD1	1:B:344:TYR:N	2.76	0.52
1:C:60:PHE:HD2	2:Q:758:LYS:HG3	1.74	0.52
1:C:109:ARG:O	1:C:112:LEU:N	2.33	0.52
1:C:150:LEU:HD22	1:C:193:GLY:CA	2.23	0.52
1:D:249:SER:HA	1:D:258:PHE:CE1	2.44	0.52
1:D:380:ARG:C	1:D:382:GLU:N	2.65	0.52
1:E:84:ALA:N	1:E:85:GLU:OE2	2.43	0.52
1:E:139:LYS:NZ	1:E:149:GLU:HG2	2.24	0.52
1:E:140:LEU:HD12	1:E:227:LEU:N	2.22	0.52
1:G:172:ILE:O	1:G:175:GLU:HB2	2.10	0.52
1:G:331:ARG:NH2	1:G:331:ARG:CG	2.71	0.52
1:G:429:ARG:HG2	1:G:430:THR:N	2.22	0.52
1:I:127:PHE:CG	1:I:351:LEU:HD13	2.45	0.52
1:I:300:VAL:CG1	1:I:303:TYR:HE2	2.22	0.52
1:I:372:ILE:HG13	1:I:372:ILE:O	2.08	0.52
1:J:139:LYS:HD2	1:J:149:GLU:CD	2.34	0.52
1:J:315:ASN:O	1:J:318:PRO:HD3	2.09	0.52
1:J:375:MET:HG2	1:J:379:GLU:OE2	2.09	0.52
1:J:375:MET:HE2	1:J:379:GLU:HG2	1.91	0.52
1:K:326:ARG:CA	1:K:330:THR:OG1	2.57	0.52
1:K:372:ILE:HG12	1:K:373:TYR:N	2.23	0.52
1:L:18:VAL:CG2	1:L:79:ILE:HD12	2.39	0.52
1:L:96:ILE:C	1:L:97:TYR:CD1	2.87	0.52
1:L:112:LEU:HD22	1:L:116:LEU:CD1	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:97:TYR:CZ	1:N:103:PRO:HB3	2.45	0.52
1:N:129:LEU:HG	1:N:347:LEU:HD21	1.91	0.52
1:N:131:PRO:CG	1:N:211:ILE:HD11	2.40	0.52
1:N:252:LYS:O	1:N:253:ASN:HB2	2.08	0.52
1:N:414:PHE:CD2	1:N:415:GLU:N	2.75	0.52
2:W:748:LEU:HD13	2:W:748:LEU:C	2.33	0.52
1:B:292:THR:O	1:B:295:SER:HB2	2.10	0.52
1:D:60:PHE:CD2	2:Y:758:LYS:HG3	2.44	0.52
1:D:62:ARG:HD3	2:Y:754:HIS:HE1	1.75	0.52
1:E:318:PRO:HD2	1:E:335:ARG:NH2	2.25	0.52
1:F:112:LEU:HD11	1:F:204:ALA:CB	2.37	0.52
1:F:214:PHE:CE1	1:F:218:VAL:HG23	2.44	0.52
1:F:261:GLU:HG3	1:F:262:ASN:N	2.23	0.52
1:F:316:ARG:HG3	2:O:747:MET:CE	2.40	0.52
1:G:11:LYS:HE2	1:G:15:GLU:OE1	2.09	0.52
1:G:322:ILE:HG22	1:G:326:ARG:HH22	1.75	0.52
1:G:372:ILE:O	1:G:375:MET:CB	2.57	0.52
1:H:302:GLY:O	1:H:303:TYR:CD2	2.62	0.52
1:I:418:ILE:O	1:I:422:GLU:OE1	2.27	0.52
1:J:42:LEU:HD12	1:J:42:LEU:O	2.09	0.52
1:J:140:LEU:HD12	1:J:226:GLY:C	2.35	0.52
1:J:243:GLY:CA	1:J:298:ARG:HH12	2.21	0.52
1:L:34:ASN:C	1:L:34:ASN:ND2	2.66	0.52
1:L:93:ILE:HG22	1:L:94:CYS:N	2.25	0.52
1:N:77:PHE:HB2	1:N:92:PHE:CD2	2.44	0.52
1:N:105:GLU:HG3	1:N:106:GLY:H	1.73	0.52
1:N:168:CYS:C	1:N:170:ARG:H	2.13	0.52
1:N:200:LYS:HG2	1:N:201:TYR:HB2	1.91	0.52
1:A:28:ILE:CG2	1:A:29:LEU:HG	2.40	0.52
1:A:133:PRO:HD2	1:A:197:ILE:O	2.10	0.52
1:A:291:PRO:HG3	1:A:341:ALA:HA	1.91	0.52
1:B:172:ILE:HD13	1:B:221:ILE:HB	1.91	0.52
1:B:250:LEU:O	1:B:251:PHE:CD1	2.63	0.52
1:B:311:TRP:CZ3	1:B:322:ILE:HG13	2.45	0.52
1:B:373:TYR:CE2	2:Z:746:LYS:HB3	2.45	0.52
1:C:9:ILE:O	1:C:12:LEU:N	2.42	0.52
1:C:16:GLU:HA	1:C:16:GLU:OE2	2.09	0.52
1:D:150:LEU:HD13	1:D:192:PRO:C	2.34	0.52
1:E:78:VAL:HG11	1:E:179:MET:HE1	1.91	0.52
1:E:132:GLU:O	1:E:244:MET:HA	2.10	0.52
1:E:364:ALA:HB1	1:E:365:PRO:HD2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:91:ARG:C	1:F:91:ARG:CD	2.82	0.52
1:F:244:MET:HB2	1:F:339:PRO:CD	2.38	0.52
1:F:321:ARG:HB2	1:F:335:ARG:HD2	1.91	0.52
1:F:333:GLU:HG2	1:F:335:ARG:HG2	1.92	0.52
1:F:362:LEU:CD1	1:F:362:LEU:H	2.23	0.52
1:G:6:ARG:NH2	1:G:47:ASP:OD1	2.42	0.52
1:G:78:VAL:CG2	1:G:91:ARG:HH12	2.22	0.52
1:H:261:GLU:H	1:H:261:GLU:CD	2.16	0.52
1:H:431:GLN:OE1	1:H:431:GLN:HA	2.09	0.52
1:J:117:LYS:O	1:J:118:GLU:C	2.52	0.52
1:J:245:HIS:CE1	3:J:501:GLN:HG2	2.45	0.52
1:J:368:ILE:HG12	1:J:372:ILE:HG21	1.91	0.52
1:K:97:TYR:HD2	1:K:103:PRO:HA	1.65	0.52
1:M:372:ILE:HG22	1:M:385:ILE:CD1	2.40	0.52
1:M:372:ILE:HG22	1:M:385:ILE:HD13	1.92	0.52
1:N:141:ASP:HB3	1:N:147:THR:CG2	2.40	0.52
1:N:202:ALA:HB3	1:N:207:SER:CB	2.39	0.52
2:W:748:LEU:O	2:W:748:LEU:HD22	2.09	0.52
1:A:28:ILE:O	1:A:28:ILE:HD13	2.10	0.52
1:A:64:GLU:C	1:A:65:GLU:O	2.48	0.52
1:B:35:VAL:HG12	1:E:157:PHE:HE2	1.72	0.52
1:B:377:LYS:HG2	1:B:380:ARG:HH12	1.75	0.52
1:C:111:ASN:O	1:C:111:ASN:ND2	2.43	0.52
1:C:369:ASP:OD2	1:C:370:ARG:CG	2.58	0.52
1:C:405:MET:O	1:C:406:VAL:C	2.52	0.52
1:D:108:PRO:HB3	1:D:345:LEU:HD21	1.92	0.52
1:D:129:LEU:HD12	1:D:347:LEU:HD21	1.91	0.52
1:E:20:TYR:OH	1:E:36:GLU:HB2	2.09	0.52
1:F:25:PHE:HE2	1:F:35:VAL:HG12	1.74	0.52
1:F:163:ASP:O	1:F:167:ASN:CB	2.56	0.52
1:G:110:ASN:HA	1:G:113:LYS:HD2	1.92	0.52
1:H:302:GLY:HA2	1:H:316:ARG:NH2	2.24	0.52
1:I:137:LEU:HD12	1:I:195:HIS:CD2	2.45	0.52
1:I:368:ILE:HD11	1:I:385:ILE:CD1	2.35	0.52
1:J:131:PRO:HG2	1:J:211:ILE:HD11	1.91	0.52
1:K:389:PRO:HB3	1:K:394:GLU:HB3	1.91	0.52
1:L:18:VAL:HA	1:L:88:LYS:HB3	1.92	0.52
1:N:156:TYR:CD2	1:N:157:PHE:HD1	2.28	0.52
1:N:213:THR:O	1:N:217:VAL:HG23	2.10	0.52
1:N:235:PRO:HG2	1:N:236:LEU:N	2.19	0.52
1:C:316:ARG:HH12	1:C:317:SER:HB3	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:169:ARG:HD2	1:D:186:SER:HB2	1.92	0.52
1:D:215:LYS:HG3	1:D:231:PHE:CE2	2.45	0.52
1:E:309:VAL:O	1:E:385:ILE:HD13	2.10	0.52
1:F:319:LEU:CD1	1:F:388:LEU:HD21	2.39	0.52
1:G:368:ILE:HD11	1:G:385:ILE:HD11	1.91	0.52
1:H:86:LYS:O	1:H:86:LYS:HD3	2.10	0.52
1:H:129:LEU:HD23	1:H:130:GLY:N	2.24	0.52
1:J:19:LYS:HD2	1:J:87:GLY:HA3	1.91	0.52
1:K:20:TYR:OH	1:K:36:GLU:HB2	2.09	0.52
1:K:172:ILE:O	1:K:176:LEU:HG	2.09	0.52
1:K:418:ILE:O	1:K:422:GLU:HG3	2.10	0.52
1:L:71:TYR:N	1:L:71:TYR:HD1	2.07	0.52
1:N:252:LYS:O	1:N:253:ASN:CG	2.53	0.52
1:N:338:ASP:OD2	1:N:338:ASP:C	2.53	0.52
2:O:753:ALA:C	2:O:756:ARG:HG2	2.34	0.52
1:B:176:LEU:O	1:B:181:PHE:HB2	2.10	0.52
1:C:404:VAL:O	1:C:407:LYS:HB2	2.09	0.52
1:D:20:TYR:O	1:D:21:ILE:HD13	2.10	0.52
1:D:237:PHE:CG	1:D:238:GLY:N	2.78	0.52
1:E:316:ARG:HB3	2:W:747:MET:HG2	1.92	0.52
1:E:322:ILE:O	1:E:323:PRO:C	2.51	0.52
1:E:381:MET:HE3	1:E:386:VAL:CG1	2.40	0.52
1:G:146:PRO:HB3	1:G:228:HIS:HB2	1.91	0.52
1:G:296:TYR:CE1	1:G:392:LEU:HA	2.45	0.52
1:G:338:ASP:OD2	1:G:340:ALA:HB3	2.10	0.52
1:H:187:HIS:CD2	1:H:187:HIS:O	2.63	0.52
1:I:418:ILE:CG2	1:I:422:GLU:CD	2.75	0.52
1:J:333:GLU:HG2	1:J:335:ARG:HG2	1.91	0.52
1:K:9:ILE:HD12	1:K:74:LEU:CD1	2.40	0.52
1:K:260:ASP:HB2	1:K:268:SER:CB	2.36	0.52
1:L:5:THR:O	1:L:8:ASP:HB2	2.09	0.52
1:L:279:VAL:CG1	1:L:309:VAL:HG12	2.39	0.52
1:M:47:ASP:CB	1:M:49:LYS:HE2	2.39	0.52
1:M:125:SER:HB3	1:M:126:ASP:OD2	2.09	0.52
1:N:128:ASN:HB2	1:N:249:SER:OG	2.10	0.52
1:N:371:ASN:C	1:N:374:VAL:HG22	2.35	0.52
1:N:385:ILE:H	1:N:385:ILE:HD12	1.73	0.52
1:N:405:MET:O	1:N:406:VAL:C	2.53	0.52
1:A:358:ILE:O	1:A:358:ILE:HG22	2.09	0.52
1:C:54:GLY:C	1:C:56:SER:H	2.15	0.52
1:C:251:PHE:N	1:C:251:PHE:CD1	2.78	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:51:MET:SD	1:D:69:TYR:CZ	3.03	0.52
1:E:71:TYR:CE2	1:E:97:TYR:CD2	2.98	0.52
1:E:95:ASP:HB3	1:E:97:TYR:HE1	1.75	0.52
1:E:259:PHE:CZ	1:E:261:GLU:HG3	2.45	0.52
1:E:429:ARG:NH1	1:E:429:ARG:HG2	2.25	0.52
1:G:196:GLU:HG2	1:G:198:ASP:OD1	2.10	0.52
1:G:256:ASN:ND2	1:G:328:ILE:O	2.43	0.52
1:G:377:LYS:O	1:G:377:LYS:HE3	2.10	0.52
1:I:377:LYS:HA	1:I:380:ARG:NH1	2.25	0.52
1:J:48:ASN:HB3	1:J:71:TYR:CE1	2.45	0.52
1:J:83:THR:O	1:J:85:GLU:HB2	2.10	0.52
1:K:234:LYS:HB2	1:K:298:ARG:HB2	1.91	0.52
1:L:385:ILE:O	1:L:385:ILE:HG22	2.10	0.52
1:L:436:GLU:CD	1:M:297:LYS:NZ	2.68	0.52
1:N:136:PHE:CD1	1:N:235:PRO:HG3	2.45	0.52
1:N:176:LEU:O	1:N:181:PHE:HB2	2.09	0.52
2:P:750:GLY:O	2:P:754:HIS:HB2	2.09	0.52
2:X:753:ALA:O	2:X:757:TYR:HE1	1.91	0.52
1:A:98:ASN:C	1:A:100:ASP:H	2.17	0.52
1:A:208:CYS:SG	1:A:347:LEU:HG	2.50	0.52
1:B:167:ASN:HA	1:B:170:ARG:HB2	1.90	0.52
1:C:134:GLU:OE1	3:C:503:GLN:N	2.43	0.52
1:C:170:ARG:O	1:C:173:VAL:N	2.43	0.52
1:C:304:GLU:HG3	1:C:316:ARG:O	2.10	0.52
1:D:76:THR:O	1:D:91:ARG:NH1	2.43	0.52
1:D:357:GLY:HA2	1:D:362:LEU:HD22	1.92	0.52
1:F:359:LYS:C	1:F:361:LYS:H	2.16	0.52
1:F:440:TYR:HD1	1:F:444:TYR:CD2	2.28	0.52
1:G:248:LEU:N	1:G:332:VAL:O	2.33	0.52
1:G:302:GLY:HA3	2:T:750:GLY:N	2.25	0.52
1:G:316:ARG:CD	2:T:747:MET:HG2	2.40	0.52
1:H:244:MET:HE2	1:H:338:ASP:O	2.09	0.52
1:I:160:ALA:O	1:I:161:PRO:O	2.28	0.52
1:I:253:ASN:O	1:I:255:VAL:HG23	2.10	0.52
1:J:138:PHE:CD2	1:J:148:LEU:HA	2.45	0.52
1:J:307:CYS:O	1:J:388:LEU:CG	2.58	0.52
1:K:127:PHE:CE2	1:K:248:LEU:HD22	2.42	0.52
1:K:221:ILE:HD13	1:K:221:ILE:N	2.25	0.52
1:L:258:PHE:HA	1:L:268:SER:HG	1.74	0.52
1:M:35:VAL:HG11	1:M:70:LEU:CD2	2.39	0.52
1:M:97:TYR:CD2	1:M:103:PRO:HA	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:325:SER:OG	1:M:331:ARG:NH1	2.43	0.52
1:N:334:VAL:HG11	1:N:350:LEU:HD21	1.92	0.52
1:A:402:ASN:OD1	1:A:402:ASN:C	2.53	0.51
1:B:119:MET:HB2	1:B:355:LEU:HD11	1.91	0.51
1:B:127:PHE:CE1	1:B:274:PHE:HZ	2.28	0.51
1:B:390:ALA:O	1:D:429:ARG:NH1	2.43	0.51
1:C:295:SER:HB3	1:C:338:ASP:OD1	2.10	0.51
1:C:350:LEU:C	1:C:352:ALA:N	2.66	0.51
1:D:83:THR:O	1:D:84:ALA:HB2	2.10	0.51
1:D:214:PHE:CZ	1:D:218:VAL:HG21	2.45	0.51
1:D:243:GLY:HA2	1:D:298:ARG:NH1	2.25	0.51
1:F:172:ILE:HA	1:F:221:ILE:HD13	1.92	0.51
1:F:302:GLY:CA	2:O:750:GLY:HA3	2.40	0.51
1:G:35:VAL:O	1:G:35:VAL:HG13	2.09	0.51
1:G:189:GLU:OE2	3:G:501:GLN:HG3	2.10	0.51
1:H:191:ALA:HA	2:Y:757:TYR:CE2	2.45	0.51
1:H:362:LEU:CD1	1:H:362:LEU:N	2.73	0.51
1:H:439:GLN:HE22	2:Z:759:ASN:CB	2.21	0.51
1:I:176:LEU:O	1:I:181:PHE:HB2	2.09	0.51
1:K:282:ALA:HB3	1:K:309:VAL:HG11	1.92	0.51
1:L:163:ASP:O	1:L:167:ASN:CA	2.58	0.51
1:L:279:VAL:HG12	1:L:309:VAL:HG12	1.92	0.51
1:L:406:VAL:HA	1:L:414:PHE:CD1	2.44	0.51
1:M:106:GLY:O	1:M:413:LEU:HG	2.10	0.51
1:M:132:GLU:OE2	1:M:245:HIS:ND1	2.43	0.51
1:M:258:PHE:CE1	1:M:332:VAL:CG2	2.93	0.51
1:N:167:ASN:CA	1:N:170:ARG:HB2	2.39	0.51
2:S:746:LYS:C	2:S:748:LEU:N	2.67	0.51
1:A:301:PRO:HG3	2:P:746:LYS:HD3	1.92	0.51
1:A:325:SER:HB3	1:G:51:MET:CE	2.30	0.51
1:B:55:SER:O	1:B:58:GLU:HB2	2.10	0.51
1:B:132:GLU:HB3	1:B:196:GLU:OE2	2.09	0.51
1:B:192:PRO:HD3	2:Z:757:TYR:CD2	2.45	0.51
1:B:258:PHE:O	1:B:268:SER:N	2.39	0.51
1:C:97:TYR:HA	1:C:103:PRO:HA	1.92	0.51
1:C:170:ARG:O	1:C:171:ASP:C	2.53	0.51
1:C:182:GLU:CD	1:C:200:LYS:HD3	2.36	0.51
1:D:111:ASN:O	1:D:114:ARG:HB3	2.10	0.51
1:E:5:THR:CG2	1:E:8:ASP:OD1	2.57	0.51
1:E:163:ASP:HA	1:E:166:GLU:HB3	1.92	0.51
1:F:42:LEU:HD12	1:F:46:LEU:HG	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:46:LEU:C	1:F:48:ASN:N	2.67	0.51
1:G:28:ILE:HD11	1:G:417:PHE:HB2	1.92	0.51
1:G:132:GLU:OE2	1:G:245:HIS:HD2	1.94	0.51
1:H:129:LEU:HD22	1:H:131:PRO:CD	2.40	0.51
1:H:172:ILE:O	1:H:176:LEU:CD1	2.56	0.51
1:I:312:SER:OG	1:I:368:ILE:O	2.13	0.51
1:J:8:ASP:O	1:J:12:LEU:HB2	2.10	0.51
1:J:303:TYR:CE1	2:2:753:ALA:HB1	2.45	0.51
1:L:26:THR:HG21	1:L:212:GLN:HE21	1.75	0.51
1:M:190:VAL:HG13	1:M:191:ALA:N	2.25	0.51
1:M:421:LYS:O	1:M:424:GLU:HB3	2.10	0.51
2:S:753:ALA:O	2:S:757:TYR:CE1	2.63	0.51
2:W:752:ASN:HA	2:W:755:PHE:CE2	2.46	0.51
1:A:60:PHE:HD1	2:O:755:PHE:CE2	2.28	0.51
1:A:301:PRO:CB	2:P:746:LYS:HD3	2.40	0.51
1:C:83:THR:HG21	1:C:89:VAL:HB	1.92	0.51
1:C:413:LEU:O	1:C:416:HIS:N	2.43	0.51
1:E:124:PHE:HB3	1:E:251:PHE:O	2.10	0.51
1:E:141:ASP:OD1	1:E:145:GLU:HB2	2.11	0.51
1:E:373:TYR:CD1	2:W:746:LYS:N	2.78	0.51
1:F:60:PHE:HD2	2:X:758:LYS:HG2	1.75	0.51
1:F:171:ASP:CG	1:F:225:HIS:CE1	2.86	0.51
1:F:293:VAL:HG11	1:F:428:PHE:CG	2.45	0.51
1:H:86:LYS:CD	1:J:174:LEU:HD23	2.33	0.51
1:H:244:MET:H	1:H:338:ASP:HA	1.75	0.51
1:I:22:ARG:HB3	1:I:34:ASN:OD1	2.10	0.51
1:J:4:TYR:HB3	1:J:9:ILE:HD11	1.92	0.51
1:J:392:LEU:HD12	1:J:392:LEU:C	2.35	0.51
1:K:18:VAL:HG11	1:K:21:ILE:HD11	1.92	0.51
1:M:100:ASP:O	1:M:102:THR:N	2.43	0.51
1:M:349:VAL:HB	1:M:405:MET:SD	2.51	0.51
1:M:380:ARG:HD2	1:M:381:MET:HE3	1.91	0.51
1:N:315:ASN:C	1:N:318:PRO:HD3	2.35	0.51
2:R:746:LYS:C	2:R:749:GLU:H	2.19	0.51
2:V:749:GLU:O	2:V:753:ALA:N	2.43	0.51
2:Z:751:GLN:O	2:Z:755:PHE:CD2	2.51	0.51
2:2:759:ASN:O	2:2:760:ARG:CG	2.59	0.51
1:A:22:ARG:CD	1:F:159:LEU:HD21	2.40	0.51
1:A:96:ILE:HD12	1:A:107:ASP:CG	2.36	0.51
1:A:244:MET:O	1:A:245:HIS:C	2.53	0.51
1:B:215:LYS:O	1:B:219:LYS:HB2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:41:GLN:NE2	1:I:184:GLU:HA	2.25	0.51
1:C:235:PRO:HG2	1:C:236:LEU:H	1.76	0.51
1:C:433:HIS:O	1:C:434:PRO:C	2.53	0.51
1:D:112:LEU:HD22	1:D:116:LEU:HG	1.92	0.51
1:E:76:THR:HB	1:E:93:ILE:HB	1.91	0.51
1:F:134:GLU:OE2	1:F:189:GLU:OE1	2.27	0.51
1:F:402:ASN:O	1:F:405:MET:HB2	2.09	0.51
1:G:61:VAL:O	1:G:61:VAL:HG23	2.09	0.51
1:G:326:ARG:O	1:G:327:GLY:C	2.53	0.51
1:J:6:ARG:NH1	1:J:46:LEU:CB	2.74	0.51
1:J:116:LEU:HD11	1:J:204:ALA:HB3	1.92	0.51
1:K:260:ASP:O	1:K:261:GLU:C	2.53	0.51
1:N:314:GLN:O	1:N:315:ASN:ND2	2.43	0.51
1:N:368:ILE:N	1:N:368:ILE:CD1	2.71	0.51
2:Q:756:ARG:CG	2:Q:756:ARG:NH1	2.71	0.51
2:Z:750:GLY:O	2:Z:753:ALA:N	2.44	0.51
1:A:129:LEU:HD22	1:A:131:PRO:CG	2.33	0.51
1:A:370:ARG:HG3	1:A:371:ASN:N	2.25	0.51
1:A:443:GLN:NE2	2:Q:758:LYS:NZ	2.58	0.51
1:B:3:LYS:HA	1:B:75:ASN:OD1	2.09	0.51
1:B:281:HIS:CD2	1:B:353:ALA:HB1	2.45	0.51
1:C:96:ILE:HG12	1:C:107:ASP:OD1	2.10	0.51
1:C:402:ASN:OD1	1:C:402:ASN:C	2.52	0.51
1:D:34:ASN:ND2	1:D:34:ASN:O	2.35	0.51
1:D:96:ILE:HD13	1:D:107:ASP:OD1	2.11	0.51
1:D:395:ALA:O	1:D:396:LEU:C	2.54	0.51
1:E:184:GLU:O	1:E:185:ALA:HB2	2.09	0.51
1:E:324:ALA:O	1:E:325:SER:C	2.54	0.51
1:F:43:GLY:C	1:F:45:ALA:N	2.67	0.51
1:F:91:ARG:NH2	1:F:213:THR:OG1	2.43	0.51
1:F:142:GLU:N	1:F:142:GLU:OE2	2.43	0.51
1:F:172:ILE:HA	1:F:221:ILE:CD1	2.40	0.51
1:F:405:MET:HE2	1:F:405:MET:HA	1.92	0.51
1:G:162:THR:HG23	1:G:164:LEU:HD23	1.91	0.51
1:G:168:CYS:C	1:G:170:ARG:H	2.18	0.51
1:G:325:SER:OG	1:G:331:ARG:NH1	2.44	0.51
1:J:27:ASP:OD2	1:J:28:ILE:N	2.44	0.51
1:J:57:ILE:HD11	1:J:96:ILE:HG12	1.90	0.51
1:K:171:ASP:O	1:K:175:GLU:HB2	2.10	0.51
1:L:182:GLU:HB3	1:L:200:LYS:CD	2.36	0.51
1:L:259:PHE:CE2	1:L:261:GLU:OE2	2.63	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:421:LYS:O	1:M:424:GLU:N	2.44	0.51
1:N:304:GLU:HA	1:N:316:ARG:HD2	1.93	0.51
2:Q:758:LYS:O	2:Q:758:LYS:HE3	2.10	0.51
1:B:112:LEU:HD22	1:B:116:LEU:HD11	1.92	0.51
1:C:5:THR:HG23	1:C:8:ASP:OD1	2.10	0.51
1:C:281:HIS:HB3	1:C:405:MET:HE3	1.92	0.51
1:C:351:LEU:HD11	1:C:355:LEU:HD11	1.92	0.51
1:C:359:LYS:NZ	1:C:359:LYS:HB2	2.26	0.51
1:D:60:PHE:HD2	2:Y:758:LYS:CE	2.24	0.51
1:D:150:LEU:CD1	1:D:192:PRO:O	2.58	0.51
1:E:166:GLU:C	1:E:168:CYS:H	2.17	0.51
1:F:135:PHE:HB3	1:F:231:PHE:CE1	2.45	0.51
1:F:234:LYS:HG3	1:F:234:LYS:O	2.10	0.51
1:F:389:PRO:HB3	1:F:394:GLU:HG2	1.91	0.51
1:G:193:GLY:O	1:G:195:HIS:HD2	1.92	0.51
1:G:430:THR:HG22	1:I:300:VAL:HG21	1.92	0.51
1:H:208:CYS:O	1:H:211:ILE:HB	2.10	0.51
1:H:381:MET:C	1:H:383:ASN:N	2.68	0.51
1:I:3:LYS:HE2	1:I:4:TYR:CZ	2.46	0.51
1:I:57:ILE:C	1:I:59:GLY:H	2.17	0.51
1:J:302:GLY:O	2:2:753:ALA:HB3	2.10	0.51
1:L:243:GLY:HA3	1:L:298:ARG:HH12	1.76	0.51
1:M:202:ALA:HB3	1:M:207:SER:HB2	1.91	0.51
1:N:234:LYS:O	1:N:294:ASN:OD1	2.29	0.51
2:Q:747:MET:C	2:Q:749:GLU:N	2.67	0.51
2:X:747:MET:HE2	2:X:751:GLN:NE2	2.26	0.51
1:A:37:ILE:HG22	1:F:185:ALA:HB2	1.92	0.51
1:A:146:PRO:HB3	1:A:228:HIS:CG	2.46	0.51
1:B:76:THR:O	1:B:78:VAL:HG23	2.09	0.51
1:B:91:ARG:HD2	1:B:91:ARG:C	2.35	0.51
1:B:427:MET:SD	2:W:759:ASN:CB	2.99	0.51
1:C:311:TRP:CD1	1:C:367:PRO:HA	2.46	0.51
1:D:62:ARG:CD	2:Y:754:HIS:CE1	2.94	0.51
1:D:164:LEU:HD13	1:F:223:ARG:CZ	2.41	0.51
1:D:315:ASN:O	1:D:318:PRO:HD3	2.11	0.51
1:D:370:ARG:O	1:D:371:ASN:CB	2.58	0.51
1:F:281:HIS:O	1:F:285:PHE:CD2	2.64	0.51
1:G:162:THR:O	1:G:166:GLU:HB2	2.11	0.51
1:H:28:ILE:HG23	1:H:29:LEU:HG	1.93	0.51
1:I:400:LYS:HD3	1:I:418:ILE:CG2	2.35	0.51
1:J:391:THR:O	1:J:393:ALA:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:303:TYR:CE1	2:S:753:ALA:HB3	2.46	0.51
1:M:138:PHE:N	1:M:228:HIS:O	2.44	0.51
1:N:260:ASP:C	1:N:260:ASP:OD1	2.54	0.51
2:X:752:ASN:HA	2:X:755:PHE:HD2	1.72	0.51
2:Z:749:GLU:HA	2:Z:752:ASN:CB	2.34	0.51
1:A:5:THR:O	1:A:8:ASP:HB2	2.11	0.51
1:A:400:LYS:HA	1:A:414:PHE:HZ	1.76	0.51
1:B:91:ARG:NH2	1:B:213:THR:OG1	2.44	0.51
1:B:433:HIS:HB2	1:B:436:GLU:OE1	2.10	0.51
1:C:52:PHE:HE1	1:C:70:LEU:HD13	1.74	0.51
1:D:22:ARG:HD3	1:D:34:ASN:OD1	2.11	0.51
1:D:30:GLY:CA	1:D:342:ASN:HD22	2.24	0.51
1:E:96:ILE:HG22	1:E:104:PHE:HB3	1.93	0.51
1:F:20:TYR:OH	1:F:36:GLU:HB2	2.10	0.51
1:F:28:ILE:CG2	1:F:29:LEU:N	2.73	0.51
1:F:96:ILE:O	1:F:97:TYR:CD1	2.64	0.51
1:G:323:PRO:CG	1:G:331:ARG:NH2	2.71	0.51
1:G:334:VAL:HG21	1:G:350:LEU:HD22	1.92	0.51
1:G:432:VAL:HG13	1:I:294:ASN:ND2	2.25	0.51
1:H:6:ARG:NH1	1:H:47:ASP:OD1	2.31	0.51
1:H:98:ASN:N	1:H:102:THR:O	2.43	0.51
1:H:129:LEU:HA	1:H:247:ASN:O	2.11	0.51
1:H:248:LEU:O	1:H:331:ARG:CB	2.58	0.51
1:I:344:TYR:O	1:I:348:SER:OG	2.25	0.51
1:J:109:ARG:NH1	1:J:209:ASP:OD1	2.43	0.51
1:J:392:LEU:O	1:J:396:LEU:HG	2.11	0.51
1:J:415:GLU:HG3	1:J:416:HIS:N	2.24	0.51
1:K:184:GLU:OE2	1:L:44:LYS:HE2	2.11	0.51
1:K:399:PHE:HZ	1:K:409:LEU:HD12	1.76	0.51
1:L:282:ALA:O	1:L:286:THR:OG1	2.23	0.51
1:M:310:ALA:HB1	1:M:368:ILE:CG1	2.13	0.51
1:M:316:ARG:HG2	1:M:373:TYR:CD1	2.46	0.51
1:M:380:ARG:O	1:M:385:ILE:O	2.28	0.51
1:N:296:TYR:N	1:N:296:TYR:CD1	2.79	0.51
1:N:349:VAL:HG23	1:N:350:LEU:H	1.74	0.51
1:N:376:SER:O	1:N:380:ARG:CB	2.58	0.51
2:X:749:GLU:HA	2:X:752:ASN:CB	2.39	0.51
2:2:749:GLU:O	2:2:750:GLY:C	2.54	0.51
1:A:298:ARG:HG2	1:A:298:ARG:O	2.11	0.51
1:B:9:ILE:HA	1:B:12:LEU:HD13	1.92	0.51
1:B:281:HIS:O	1:B:282:ALA:C	2.53	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:411:GLU:O	1:B:415:GLU:OE2	2.29	0.51
1:C:51:MET:HA	1:C:68:MET:O	2.11	0.51
1:C:136:PHE:CD1	1:C:235:PRO:HG3	2.46	0.51
1:C:437:ARG:C	1:C:439:GLN:N	2.62	0.51
1:D:233:PRO:O	1:D:241:GLY:HA3	2.10	0.51
1:D:400:LYS:HE2	1:D:418:ILE:HD11	1.93	0.51
1:E:268:SER:C	1:E:270:THR:H	2.19	0.51
1:F:188:HIS:HE1	1:F:191:ALA:O	1.94	0.51
1:G:129:LEU:HD22	1:G:131:PRO:HG3	1.92	0.51
1:G:237:PHE:CB	1:I:432:VAL:HG23	2.33	0.51
1:G:293:VAL:HG11	1:G:428:PHE:CD1	2.46	0.51
1:H:204:ALA:HB1	1:H:347:LEU:CD2	2.41	0.51
1:H:208:CYS:O	1:H:212:GLN:HG2	2.11	0.51
1:H:372:ILE:HD12	1:H:373:TYR:N	2.26	0.51
1:H:376:SER:O	1:H:380:ARG:HB3	2.10	0.51
1:I:184:GLU:O	1:I:185:ALA:HB2	2.11	0.51
1:J:98:ASN:HD22	1:J:99:PRO:HD3	1.74	0.51
1:J:290:ASN:ND2	1:J:336:SER:O	2.35	0.51
1:J:315:ASN:ND2	1:J:370:ARG:NH1	2.58	0.51
1:K:119:MET:HE1	1:K:127:PHE:HB2	1.91	0.51
1:K:129:LEU:CD1	1:K:347:LEU:HD11	2.41	0.51
1:L:51:MET:O	1:L:52:PHE:HB3	2.10	0.51
1:L:119:MET:O	1:L:119:MET:HG2	2.11	0.51
1:L:155:GLY:CA	1:L:189:GLU:O	2.59	0.51
1:L:371:ASN:HB3	1:L:374:VAL:HG22	1.92	0.51
1:M:212:GLN:OE1	1:M:343:PRO:HG2	2.11	0.51
1:N:190:VAL:HG23	1:N:194:GLN:OE1	2.10	0.51
1:B:100:ASP:OD2	1:B:100:ASP:N	2.43	0.51
1:B:142:GLU:N	1:B:142:GLU:OE1	2.43	0.51
1:C:136:PHE:CD2	1:C:194:GLN:N	2.79	0.51
1:C:181:PHE:HD2	1:C:183:ILE:HD11	1.75	0.51
1:C:295:SER:CB	1:C:338:ASP:OD1	2.59	0.51
1:D:20:TYR:HE2	1:D:22:ARG:NH1	2.07	0.51
1:D:175:GLU:OE1	1:F:86:LYS:NZ	2.44	0.51
1:D:315:ASN:HD21	1:D:316:ARG:HE	1.58	0.51
1:F:151:ASN:C	1:F:151:ASN:OD1	2.54	0.51
1:F:250:LEU:C	1:F:251:PHE:HD1	2.19	0.51
1:G:231:PHE:O	1:G:339:PRO:HG2	2.11	0.51
1:H:52:PHE:CD1	1:H:70:LEU:HD13	2.46	0.51
1:H:63:ILE:HD11	2:2:751:GLN:HE21	1.75	0.51
1:H:244:MET:O	1:H:245:HIS:C	2.54	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:22:ARG:HE	1:I:89:VAL:HG11	1.76	0.51
1:I:151:ASN:CG	1:I:227:LEU:HD13	2.36	0.51
1:K:32:ILE:HG23	1:N:159:LEU:HD12	1.93	0.51
1:K:373:TYR:CD1	2:1:747:MET:CG	2.91	0.51
1:L:341:ALA:O	1:L:343:PRO:HD3	2.10	0.51
1:L:419:GLU:O	1:L:423:ILE:HD13	2.11	0.51
1:M:137:LEU:CA	1:M:228:HIS:O	2.59	0.51
1:M:309:VAL:HG22	1:M:386:VAL:H	1.76	0.51
1:N:13:VAL:HG21	1:N:42:LEU:HD21	1.93	0.51
1:N:81:PRO:O	1:N:82:TRP:C	2.54	0.51
1:N:183:ILE:HD12	1:N:183:ILE:N	2.26	0.51
1:N:297:LYS:O	1:N:300:VAL:HG23	2.10	0.51
1:A:287:ALA:O	1:A:291:PRO:HA	2.10	0.50
1:A:301:PRO:CG	2:P:746:LYS:HD3	2.41	0.50
1:B:63:ILE:CD1	2:W:751:GLN:HE21	2.24	0.50
1:B:286:THR:O	1:B:287:ALA:C	2.54	0.50
1:C:165:GLY:O	1:C:168:CYS:N	2.43	0.50
1:D:26:THR:OG1	1:D:212:GLN:NE2	2.43	0.50
1:D:113:LYS:O	1:D:116:LEU:HB2	2.11	0.50
1:D:414:PHE:C	1:D:414:PHE:HD2	2.19	0.50
1:E:264:ASP:OD1	1:E:264:ASP:N	2.44	0.50
1:F:96:ILE:HG21	1:F:104:PHE:HD2	1.76	0.50
1:F:271:ALA:O	1:F:275:ILE:HG12	2.12	0.50
1:F:281:HIS:CD2	1:F:402:ASN:HD21	2.28	0.50
1:F:282:ALA:HA	1:F:285:PHE:CZ	2.46	0.50
1:H:237:PHE:CD1	1:H:238:GLY:N	2.79	0.50
1:H:432:VAL:HG23	1:N:237:PHE:HB2	1.93	0.50
1:L:160:ALA:O	1:L:162:THR:N	2.44	0.50
1:N:164:LEU:HD23	1:N:227:LEU:HD21	1.93	0.50
1:B:169:ARG:NH2	1:B:188:HIS:HB2	2.26	0.50
1:D:28:ILE:HD11	1:D:417:PHE:HD1	1.75	0.50
1:D:28:ILE:HG23	1:D:29:LEU:HG	1.94	0.50
1:D:108:PRO:HB3	1:D:345:LEU:CD2	2.41	0.50
1:D:170:ARG:O	1:D:171:ASP:C	2.54	0.50
1:D:282:ALA:HA	1:D:285:PHE:CE2	2.46	0.50
1:E:106:GLY:O	1:E:413:LEU:HD21	2.11	0.50
1:E:261:GLU:CD	1:E:261:GLU:H	2.19	0.50
1:E:378:GLU:O	1:E:382:GLU:CG	2.50	0.50
1:E:441:MET:CE	1:F:230:THR:HG21	2.35	0.50
1:F:20:TYR:CZ	1:F:36:GLU:HB2	2.47	0.50
1:F:208:CYS:SG	1:F:347:LEU:HD23	2.51	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:309:VAL:O	1:G:309:VAL:HG12	2.11	0.50
1:H:402:ASN:OD1	1:H:404:VAL:HG12	2.10	0.50
1:I:258:PHE:O	1:I:330:THR:HG21	2.11	0.50
1:J:302:GLY:C	2:2:750:GLY:HA2	2.37	0.50
1:M:82:TRP:HH2	1:M:217:VAL:HG22	1.75	0.50
1:N:97:TYR:C	1:N:98:ASN:O	2.49	0.50
1:A:154:GLY:HA3	1:A:188:HIS:CE1	2.46	0.50
1:A:189:GLU:CG	1:A:190:VAL:H	2.02	0.50
1:A:317:SER:HA	1:A:335:ARG:NH2	2.27	0.50
1:B:125:SER:OG	1:B:126:ASP:N	2.44	0.50
1:B:377:LYS:HA	1:B:380:ARG:CZ	2.40	0.50
1:C:161:PRO:HD2	1:C:166:GLU:CG	2.22	0.50
1:D:52:PHE:HD2	1:D:53:ASP:N	2.09	0.50
1:D:176:LEU:HD21	1:D:217:VAL:HB	1.93	0.50
1:D:276:ALA:HB2	1:D:364:ALA:HA	1.93	0.50
1:E:48:ASN:CB	1:E:71:TYR:CD1	2.91	0.50
1:E:135:PHE:O	1:E:135:PHE:CD2	2.64	0.50
1:E:364:ALA:HB1	1:E:365:PRO:CD	2.41	0.50
1:F:160:ALA:O	1:F:161:PRO:C	2.54	0.50
1:F:250:LEU:HB2	1:F:258:PHE:HE2	1.74	0.50
1:F:410:GLY:O	1:F:411:GLU:C	2.54	0.50
1:G:104:PHE:C	1:G:106:GLY:N	2.69	0.50
1:G:244:MET:H	1:G:338:ASP:HA	1.76	0.50
1:H:124:PHE:CD2	1:H:250:LEU:HD22	2.46	0.50
1:I:35:VAL:CG1	1:I:70:LEU:HD21	2.42	0.50
1:I:234:LYS:HG3	1:I:236:LEU:O	2.12	0.50
1:I:418:ILE:O	1:I:422:GLU:HG3	2.12	0.50
1:J:16:GLU:HG2	1:J:79:ILE:HD13	1.93	0.50
1:K:370:ARG:HH22	1:K:373:TYR:HB2	1.76	0.50
1:L:376:SER:C	1:L:378:GLU:H	2.18	0.50
1:N:98:ASN:N	1:N:102:THR:O	2.44	0.50
1:N:400:LYS:NZ	1:N:422:GLU:OE2	2.43	0.50
2:O:751:GLN:HB3	2:O:755:PHE:HE1	1.75	0.50
1:B:338:ASP:OD2	1:B:338:ASP:O	2.29	0.50
1:C:81:PRO:C	1:C:83:THR:N	2.61	0.50
1:C:163:ASP:OD1	1:C:167:ASN:HB2	2.12	0.50
1:C:382:GLU:HA	1:C:382:GLU:OE2	2.11	0.50
1:F:25:PHE:HD1	1:F:57:ILE:HD11	1.77	0.50
1:F:107:ASP:O	1:F:108:PRO:C	2.55	0.50
1:F:187:HIS:CE1	1:F:196:GLU:OE1	2.64	0.50
1:G:9:ILE:HG13	1:G:74:LEU:CD1	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:52:PHE:HZ	1:G:96:ILE:HG23	1.77	0.50
1:H:115:ILE:HD11	1:H:408:ALA:O	2.11	0.50
1:H:207:SER:O	1:H:211:ILE:HG12	2.12	0.50
1:I:251:PHE:N	1:I:251:PHE:HD1	2.10	0.50
1:J:316:ARG:HH21	2:2:750:GLY:CA	2.25	0.50
1:J:376:SER:O	1:J:380:ARG:NE	2.44	0.50
1:J:402:ASN:ND2	1:J:405:MET:HG2	2.26	0.50
1:L:138:PHE:O	1:L:139:LYS:C	2.52	0.50
1:N:170:ARG:O	1:N:173:VAL:N	2.45	0.50
2:O:756:ARG:O	2:O:760:ARG:HG3	2.11	0.50
2:1:747:MET:O	2:1:751:GLN:CG	2.59	0.50
1:B:223:ARG:HG3	1:B:223:ARG:NH1	2.27	0.50
1:B:237:PHE:CD1	1:D:431:GLN:HA	2.47	0.50
1:C:251:PHE:HD1	1:C:251:PHE:N	2.10	0.50
1:C:282:ALA:HA	1:C:285:PHE:CE2	2.46	0.50
1:C:377:LYS:O	1:C:380:ARG:HG2	2.11	0.50
1:D:57:ILE:C	1:D:59:GLY:N	2.65	0.50
1:D:217:VAL:O	1:D:221:ILE:CD1	2.60	0.50
1:D:417:PHE:C	1:D:417:PHE:CD2	2.89	0.50
1:E:126:ASP:HB2	1:E:251:PHE:HB2	1.94	0.50
1:F:135:PHE:HB3	1:F:231:PHE:CD1	2.47	0.50
1:F:240:ASN:ND2	1:F:303:TYR:O	2.44	0.50
1:G:83:THR:O	1:G:84:ALA:C	2.53	0.50
1:G:285:PHE:CD1	1:G:285:PHE:C	2.89	0.50
1:G:300:VAL:HG12	1:G:301:PRO:CD	2.42	0.50
1:H:11:LYS:HE3	1:H:15:GLU:OE1	2.10	0.50
1:H:252:LYS:HG2	1:H:257:ALA:HB2	1.92	0.50
1:I:134:GLU:HG2	1:I:189:GLU:HG3	1.92	0.50
1:I:221:ILE:O	1:I:221:ILE:HG22	2.10	0.50
1:I:366:ALA:O	1:I:368:ILE:N	2.44	0.50
1:J:436:GLU:O	1:K:232:MET:HE3	2.12	0.50
1:K:243:GLY:CA	1:K:298:ARG:NH1	2.69	0.50
1:L:221:ILE:O	1:L:221:ILE:CG2	2.59	0.50
1:M:214:PHE:HE2	1:M:231:PHE:HE1	1.58	0.50
1:N:355:LEU:O	1:N:358:ILE:N	2.44	0.50
1:D:349:VAL:C	1:D:352:ALA:HB3	2.36	0.50
1:D:421:LYS:O	1:D:422:GLU:C	2.54	0.50
1:E:38:PRO:C	1:E:40:SER:N	2.68	0.50
1:E:63:ILE:C	1:E:64:GLU:HG2	2.35	0.50
1:E:68:MET:HG2	1:E:96:ILE:HG23	1.93	0.50
1:E:96:ILE:O	1:E:97:TYR:CD1	2.65	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:202:ALA:HB3	1:E:207:SER:HB2	1.92	0.50
1:E:284:SER:O	1:E:405:MET:HG3	2.10	0.50
1:E:405:MET:O	1:E:408:ALA:HB3	2.12	0.50
1:F:191:ALA:HB1	1:F:192:PRO:HD3	1.93	0.50
1:F:427:MET:HE2	2:X:759:ASN:HD22	1.76	0.50
1:G:156:TYR:CZ	1:G:157:PHE:CE1	3.00	0.50
1:G:285:PHE:HB3	1:G:405:MET:SD	2.52	0.50
1:H:208:CYS:HA	1:H:343:PRO:HB3	1.93	0.50
1:H:302:GLY:HA2	2:Y:750:GLY:HA3	1.93	0.50
1:I:51:MET:HE3	1:I:67:ASP:OD1	2.12	0.50
1:J:402:ASN:O	1:J:406:VAL:HG23	2.11	0.50
1:L:104:PHE:CD1	1:L:104:PHE:C	2.89	0.50
1:M:19:LYS:HA	1:M:39:VAL:HG11	1.93	0.50
1:M:179:MET:HE1	1:M:217:VAL:HG21	1.92	0.50
1:M:203:GLY:H	1:M:206:ARG:HB3	1.77	0.50
1:M:296:TYR:N	1:M:296:TYR:CD1	2.79	0.50
1:N:120:GLU:O	1:N:121:ASP:C	2.54	0.50
1:N:167:ASN:OD1	1:N:170:ARG:CD	2.57	0.50
1:N:315:ASN:ND2	1:N:369:ASP:O	2.45	0.50
2:O:747:MET:HE2	2:O:751:GLN:HE21	1.75	0.50
2:O:753:ALA:HA	2:O:756:ARG:HD2	1.87	0.50
2:V:749:GLU:HA	2:V:752:ASN:HB3	1.93	0.50
2:1:748:LEU:C	2:1:748:LEU:HD13	2.36	0.50
1:B:64:GLU:O	1:B:66:SER:HB2	2.12	0.50
1:C:355:LEU:HD23	1:C:358:ILE:HD12	1.93	0.50
1:D:56:SER:HB2	1:H:156:TYR:CD2	2.45	0.50
1:D:162:THR:HG22	1:D:163:ASP:H	1.75	0.50
1:E:119:MET:HE1	1:E:126:ASP:O	2.10	0.50
1:E:279:VAL:O	1:E:279:VAL:HG12	2.12	0.50
1:E:362:LEU:N	1:E:362:LEU:HD12	2.26	0.50
1:F:42:LEU:HD12	1:F:42:LEU:C	2.37	0.50
1:F:79:ILE:HG13	1:F:90:ALA:HB2	1.93	0.50
1:G:30:GLY:CA	1:G:342:ASN:ND2	2.75	0.50
1:G:84:ALA:HA	1:G:88:LYS:HA	1.92	0.50
1:G:128:ASN:HA	1:G:202:ALA:O	2.10	0.50
1:G:264:ASP:C	1:G:265:LEU:HD12	2.36	0.50
1:G:319:LEU:HD11	1:G:336:SER:HB2	1.94	0.50
1:I:359:LYS:HG2	1:I:360:ASN:N	2.25	0.50
1:K:349:VAL:HB	1:K:405:MET:SD	2.51	0.50
1:L:35:VAL:HG12	1:L:70:LEU:HD21	1.94	0.50
1:M:228:HIS:CE1	1:M:230:THR:HB	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:268:SER:O	1:M:271:ALA:HB3	2.12	0.50
1:M:311:TRP:CD2	1:M:367:PRO:HB3	2.47	0.50
2:T:750:GLY:O	2:T:753:ALA:N	2.45	0.50
1:A:443:GLN:NE2	2:Q:758:LYS:HZ2	2.10	0.50
1:C:60:PHE:CB	2:Q:758:LYS:HG3	2.32	0.50
1:C:309:VAL:HA	1:C:319:LEU:CD2	2.41	0.50
1:C:371:ASN:OD1	1:C:374:VAL:HG22	2.11	0.50
1:E:138:PHE:O	1:E:228:HIS:N	2.39	0.50
1:E:368:ILE:CG2	1:E:370:ARG:NH2	2.74	0.50
1:F:302:GLY:O	2:O:750:GLY:C	2.55	0.50
1:G:293:VAL:CG2	1:I:440:TYR:OH	2.60	0.50
1:H:186:SER:O	1:H:187:HIS:HB3	2.12	0.50
1:I:32:ILE:HG23	1:I:32:ILE:O	2.12	0.50
1:J:285:PHE:HB2	1:J:349:VAL:CG2	2.41	0.50
1:J:287:ALA:HB2	1:J:395:ALA:O	2.12	0.50
1:K:42:LEU:O	1:K:45:ALA:HB3	2.11	0.50
1:K:300:VAL:HG13	1:K:301:PRO:HD2	1.93	0.50
1:K:311:TRP:CH2	1:K:367:PRO:HD3	2.47	0.50
1:L:67:ASP:OD2	1:L:67:ASP:N	2.44	0.50
1:L:383:ASN:N	1:L:383:ASN:ND2	2.55	0.50
1:M:372:ILE:HG13	1:M:373:TYR:N	2.25	0.50
2:Z:746:LYS:O	2:Z:747:MET:C	2.51	0.50
1:A:68:MET:HG2	1:A:96:ILE:CG2	2.41	0.50
1:A:240:ASN:HD22	3:A:501:GLN:HA	1.76	0.50
1:B:189:GLU:OE2	3:B:501:GLN:HG3	2.12	0.50
1:C:212:GLN:OE1	1:C:212:GLN:HA	2.11	0.50
1:C:310:ALA:H	1:C:319:LEU:HB3	1.77	0.50
1:C:319:LEU:O	1:C:319:LEU:HD12	2.11	0.50
1:D:217:VAL:O	1:D:221:ILE:HG13	2.12	0.50
1:D:269:GLU:OE1	1:D:272:LYS:CE	2.55	0.50
1:D:306:PRO:HA	1:D:317:SER:O	2.12	0.50
1:E:381:MET:HE3	1:E:386:VAL:HG13	1.94	0.50
1:F:100:ASP:OD1	1:F:102:THR:HG22	2.12	0.50
1:G:338:ASP:HB2	1:G:339:PRO:HD2	1.94	0.50
1:H:39:VAL:C	1:H:41:GLN:N	2.60	0.50
1:H:251:PHE:N	1:H:251:PHE:CD1	2.79	0.50
1:H:252:LYS:O	1:H:253:ASN:CB	2.60	0.50
1:J:239:VAL:CA	2:2:757:TYR:OH	2.38	0.50
1:J:284:SER:O	1:J:399:PHE:HD1	1.94	0.50
1:J:373:TYR:CE2	2:2:746:LYS:O	2.65	0.50
1:K:183:ILE:HD11	1:K:197:ILE:HG23	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:260:ASP:OD2	1:K:263:ALA:HB2	2.12	0.50
1:L:9:ILE:HD12	1:L:74:LEU:HD12	1.94	0.50
1:L:48:ASN:OD1	1:L:71:TYR:CB	2.60	0.50
1:L:91:ARG:NE	1:L:93:ILE:HG13	2.26	0.50
1:L:316:ARG:HG2	2:S:747:MET:HG2	1.93	0.50
1:N:129:LEU:HD23	1:N:247:ASN:O	2.10	0.50
1:N:310:ALA:HB2	1:N:385:ILE:HG23	1.92	0.50
2:R:750:GLY:O	2:R:753:ALA:HB3	2.12	0.50
2:U:749:GLU:CA	2:U:752:ASN:HB3	2.42	0.50
2:U:751:GLN:HB3	2:U:755:PHE:HE1	1.77	0.50
2:X:747:MET:C	2:X:750:GLY:H	2.19	0.50
2:1:758:LYS:O	2:1:758:LYS:CD	2.59	0.50
1:B:8:ASP:O	1:B:12:LEU:CD1	2.59	0.49
1:B:181:PHE:HB3	1:B:183:ILE:CD1	2.42	0.49
1:B:427:MET:CE	2:W:759:ASN:CB	2.82	0.49
1:D:142:GLU:H	1:D:142:GLU:CD	2.18	0.49
1:E:405:MET:O	1:E:408:ALA:N	2.45	0.49
1:E:416:HIS:O	1:E:419:GLU:HB3	2.12	0.49
1:J:169:ARG:O	1:J:170:ARG:C	2.55	0.49
1:K:210:ASP:O	1:K:211:ILE:C	2.54	0.49
1:L:391:THR:C	1:L:393:ALA:H	2.18	0.49
1:M:63:ILE:O	1:M:64:GLU:HG2	2.12	0.49
1:M:107:ASP:O	1:M:108:PRO:C	2.53	0.49
1:M:152:ASP:OD2	1:M:154:GLY:N	2.45	0.49
1:M:214:PHE:CE1	1:M:218:VAL:HG22	2.47	0.49
1:N:343:PRO:O	1:N:347:LEU:HB2	2.11	0.49
1:A:197:ILE:C	1:A:198:ASP:OD1	2.55	0.49
1:A:206:ARG:HG2	1:A:206:ARG:NH1	2.15	0.49
1:B:167:ASN:O	1:B:171:ASP:HB2	2.12	0.49
1:B:231:PHE:O	1:B:232:MET:C	2.55	0.49
1:C:20:TYR:OH	1:C:36:GLU:OE2	2.20	0.49
1:D:308:TYR:CE1	1:D:373:TYR:CD1	3.00	0.49
1:E:21:ILE:HD13	1:E:42:LEU:HD13	1.94	0.49
1:E:76:THR:CB	1:E:93:ILE:HB	2.42	0.49
1:F:22:ARG:NH1	1:F:36:GLU:OE1	2.45	0.49
1:F:93:ILE:HG22	1:F:109:ARG:NH2	2.26	0.49
1:F:169:ARG:NH2	1:F:188:HIS:HB2	2.27	0.49
1:G:60:PHE:HD1	2:P:755:PHE:CD2	2.30	0.49
1:G:110:ASN:O	1:G:113:LYS:N	2.45	0.49
1:G:169:ARG:O	1:G:173:VAL:HG23	2.12	0.49
1:G:251:PHE:O	1:G:252:LYS:HB3	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:345:LEU:CD2	1:G:413:LEU:HD23	2.41	0.49
1:G:372:ILE:HA	1:G:375:MET:HB2	1.94	0.49
1:H:189:GLU:OE1	3:H:501:GLN:OE1	2.30	0.49
1:I:267:LEU:HD21	1:I:326:ARG:NH1	2.27	0.49
1:I:417:PHE:O	1:I:420:ALA:HB3	2.13	0.49
1:J:63:ILE:C	1:J:64:GLU:HG2	2.36	0.49
1:K:343:PRO:O	1:K:347:LEU:HG	2.12	0.49
1:L:83:THR:O	1:L:85:GLU:N	2.45	0.49
1:M:215:LYS:O	1:M:219:LYS:HG3	2.11	0.49
1:N:32:ILE:CD1	1:N:216:LEU:HD22	2.40	0.49
1:N:78:VAL:HB	1:N:91:ARG:NH1	2.26	0.49
1:N:240:ASN:HA	1:N:303:TYR:CD1	2.40	0.49
1:N:316:ARG:NH2	2:V:751:GLN:HG3	2.27	0.49
1:N:425:TRP:O	1:N:426:ASP:C	2.55	0.49
2:P:748:LEU:HD13	2:P:748:LEU:C	2.37	0.49
1:A:223:ARG:HG3	1:A:223:ARG:HH11	1.76	0.49
1:B:285:PHE:CE1	1:B:350:LEU:HD21	2.47	0.49
1:B:432:VAL:HG11	1:D:235:PRO:O	2.11	0.49
1:C:345:LEU:O	1:C:346:ALA:C	2.56	0.49
1:D:421:LYS:O	1:D:424:GLU:N	2.46	0.49
1:E:82:TRP:CZ3	1:E:220:THR:HG21	2.47	0.49
1:E:84:ALA:HA	1:E:88:LYS:HG2	1.94	0.49
1:F:359:LYS:C	1:F:361:LYS:N	2.71	0.49
1:F:390:ALA:H	1:F:394:GLU:CD	2.21	0.49
1:G:250:LEU:HD12	1:G:258:PHE:HZ	1.77	0.49
1:H:139:LYS:HA	1:H:227:LEU:HD23	1.93	0.49
1:H:199:PHE:HD1	1:H:199:PHE:H	1.60	0.49
1:H:375:MET:HE1	1:H:383:ASN:ND2	2.28	0.49
1:I:9:ILE:O	1:I:13:VAL:HG23	2.11	0.49
1:I:21:ILE:HD12	1:I:90:ALA:HB3	1.93	0.49
1:I:277:GLY:HA2	1:I:362:LEU:HD23	1.93	0.49
1:K:325:SER:HB2	1:K:331:ARG:HH11	1.77	0.49
1:L:231:PHE:HB3	1:L:339:PRO:HB2	1.93	0.49
1:L:396:LEU:O	1:L:400:LYS:HB2	2.12	0.49
1:L:422:GLU:O	1:L:426:ASP:HB2	2.12	0.49
1:M:372:ILE:O	1:M:373:TYR:C	2.54	0.49
1:N:237:PHE:CG	1:N:238:GLY:N	2.80	0.49
1:N:443:GLN:O	1:N:444:TYR:O	2.31	0.49
1:A:184:GLU:HA	1:A:184:GLU:OE2	2.12	0.49
1:A:443:GLN:CD	2:Q:758:LYS:HZ2	2.20	0.49
1:B:18:VAL:CG2	1:B:79:ILE:HD11	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:316:ARG:HG3	2:R:747:MET:HG2	1.93	0.49
1:E:275:ILE:CD1	1:E:322:ILE:HD11	2.41	0.49
1:F:315:ASN:OD1	1:F:316:ARG:N	2.46	0.49
1:F:345:LEU:HD22	1:F:409:LEU:HD23	1.93	0.49
1:G:167:ASN:HD22	1:G:170:ARG:HE	1.60	0.49
1:K:83:THR:HG21	1:K:89:VAL:HG23	1.95	0.49
1:K:135:PHE:HB3	1:K:231:PHE:CE1	2.48	0.49
1:K:443:GLN:CB	1:K:444:TYR:CD2	2.94	0.49
1:L:182:GLU:CB	1:L:200:LYS:HD3	2.38	0.49
1:L:261:GLU:CD	1:L:261:GLU:N	2.69	0.49
1:L:427:MET:O	1:L:431:GLN:HG2	2.13	0.49
1:M:135:PHE:HE1	1:M:197:ILE:HD13	1.76	0.49
1:M:302:GLY:O	2:U:750:GLY:HA3	2.12	0.49
1:M:420:ALA:O	1:M:423:ILE:HB	2.12	0.49
1:N:91:ARG:O	1:N:92:PHE:CD1	2.66	0.49
1:N:200:LYS:O	1:N:201:TYR:O	2.30	0.49
1:N:267:LEU:C	1:N:268:SER:O	2.55	0.49
1:N:371:ASN:O	1:N:374:VAL:HG22	2.12	0.49
1:B:26:THR:HG21	1:B:212:GLN:NE2	2.28	0.49
1:B:265:LEU:HB3	1:B:267:LEU:HG	1.94	0.49
1:C:82:TRP:O	1:C:83:THR:HG23	2.13	0.49
1:C:291:PRO:HG3	1:C:341:ALA:HA	1.93	0.49
1:D:28:ILE:CG2	1:D:29:LEU:HG	2.42	0.49
1:D:79:ILE:O	1:D:80:PHE:C	2.54	0.49
1:D:238:GLY:O	2:X:757:TYR:OH	2.30	0.49
1:G:58:GLU:OE2	1:G:416:HIS:CE1	2.65	0.49
1:G:212:GLN:OE1	1:G:343:PRO:HG2	2.12	0.49
1:G:226:GLY:C	1:G:227:LEU:HG	2.37	0.49
1:H:381:MET:C	1:H:383:ASN:H	2.19	0.49
1:J:64:GLU:OE1	1:M:314:GLN:NE2	2.45	0.49
1:J:222:ALA:CB	1:J:229:ALA:HB2	2.43	0.49
1:K:372:ILE:CG1	1:K:373:TYR:N	2.75	0.49
1:L:63:ILE:C	1:L:64:GLU:HG2	2.37	0.49
1:L:137:LEU:HD23	1:L:229:ALA:HA	1.93	0.49
1:L:285:PHE:CE1	1:L:350:LEU:HD21	2.48	0.49
1:L:423:ILE:O	1:L:427:MET:HG3	2.11	0.49
1:N:110:ASN:C	1:N:112:LEU:H	2.21	0.49
1:N:383:ASN:O	1:N:385:ILE:N	2.45	0.49
2:R:749:GLU:O	2:R:753:ALA:N	2.41	0.49
2:X:748:LEU:HD13	2:X:748:LEU:C	2.37	0.49
1:A:253:ASN:C	1:A:255:VAL:H	2.20	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:289:THR:HG21	1:A:350:LEU:HD21	1.93	0.49
1:B:238:GLY:O	1:B:239:VAL:HG22	2.13	0.49
1:B:370:ARG:CD	1:B:370:ARG:H	2.24	0.49
1:C:34:ASN:C	1:C:34:ASN:ND2	2.63	0.49
1:C:366:ALA:C	1:C:367:PRO:O	2.55	0.49
1:D:78:VAL:HG21	1:D:91:ARG:NH1	2.27	0.49
1:D:83:THR:CG2	1:D:89:VAL:HG23	2.43	0.49
1:D:127:PHE:CD1	1:D:250:LEU:HG	2.47	0.49
1:D:247:ASN:HB3	1:D:331:ARG:HD2	1.93	0.49
1:E:104:PHE:O	1:E:105:GLU:C	2.56	0.49
1:E:245:HIS:CG	1:E:335:ARG:HG2	2.48	0.49
1:F:145:GLU:O	1:F:146:PRO:C	2.51	0.49
1:F:235:PRO:HG2	1:F:236:LEU:N	2.27	0.49
1:F:269:GLU:O	1:F:273:HIS:ND1	2.46	0.49
1:F:347:LEU:O	1:F:351:LEU:N	2.40	0.49
1:F:405:MET:HA	1:F:405:MET:CE	2.42	0.49
1:G:161:PRO:O	1:G:162:THR:O	2.30	0.49
1:I:267:LEU:CD1	1:I:322:ILE:HD13	2.43	0.49
1:K:55:SER:C	1:K:57:ILE:N	2.69	0.49
1:K:321:ARG:HB3	1:K:333:GLU:HB3	1.93	0.49
1:L:285:PHE:HB3	1:L:405:MET:SD	2.52	0.49
1:L:351:LEU:HD23	1:L:352:ALA:N	2.27	0.49
1:L:373:TYR:HD2	2:S:746:LYS:HB2	1.75	0.49
1:N:200:LYS:HG2	1:N:201:TYR:N	2.26	0.49
1:C:12:LEU:O	1:C:16:GLU:HB2	2.12	0.49
1:D:20:TYR:CE1	1:D:36:GLU:HB2	2.48	0.49
1:D:235:PRO:HG2	1:D:236:LEU:N	2.28	0.49
1:D:333:GLU:OE2	1:D:335:ARG:HD3	2.13	0.49
1:E:240:ASN:HD21	1:E:303:TYR:CA	2.25	0.49
1:E:303:TYR:HD1	2:W:753:ALA:CB	2.26	0.49
1:F:17:ASN:HD21	1:F:19:LYS:NZ	2.09	0.49
1:F:172:ILE:HG23	1:F:221:ILE:HD12	1.93	0.49
1:F:260:ASP:HB3	1:F:263:ALA:HB3	1.94	0.49
1:F:303:TYR:O	1:F:304:GLU:CB	2.60	0.49
1:G:13:VAL:CG1	1:G:18:VAL:HB	2.37	0.49
1:G:232:MET:CE	1:I:436:GLU:O	2.61	0.49
1:G:302:GLY:HA2	2:T:750:GLY:HA3	1.93	0.49
1:G:315:ASN:O	1:G:316:ARG:C	2.56	0.49
1:H:75:ASN:C	1:H:77:PHE:H	2.20	0.49
1:H:204:ALA:HB1	1:H:347:LEU:HD21	1.94	0.49
1:I:387:ASP:N	1:I:387:ASP:OD1	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:355:LEU:C	1:J:357:GLY:N	2.70	0.49
1:K:263:ALA:O	1:K:266:GLN:N	2.45	0.49
1:L:9:ILE:CD1	1:L:74:LEU:HD12	2.43	0.49
1:L:134:GLU:OE1	3:L:501:GLN:HG3	2.12	0.49
1:L:249:SER:HA	1:L:258:PHE:CE1	2.47	0.49
1:M:282:ALA:O	1:M:283:THR:C	2.56	0.49
1:M:309:VAL:O	1:M:385:ILE:HG23	2.13	0.49
1:A:81:PRO:C	1:A:83:THR:H	2.20	0.49
1:A:268:SER:O	1:A:269:GLU:C	2.51	0.49
1:B:86:LYS:NZ	1:E:178:GLU:OE1	2.43	0.49
1:B:189:GLU:CD	3:B:501:GLN:HB2	2.37	0.49
1:B:244:MET:O	1:B:244:MET:CG	2.57	0.49
1:C:9:ILE:O	1:C:12:LEU:HB2	2.12	0.49
1:C:63:ILE:HG22	1:C:64:GLU:CG	2.43	0.49
1:C:162:THR:C	1:C:164:LEU:H	2.19	0.49
1:C:321:ARG:O	1:C:323:PRO:HD3	2.12	0.49
1:D:252:LYS:HB2	1:D:252:LYS:NZ	2.28	0.49
1:E:83:THR:HG23	1:E:83:THR:O	2.11	0.49
1:F:171:ASP:OD2	1:F:225:HIS:CE1	2.66	0.49
1:G:114:ARG:HH12	1:G:115:ILE:HD11	1.78	0.49
1:G:156:TYR:CE2	1:G:157:PHE:CD1	3.01	0.49
1:G:172:ILE:CD1	1:G:218:VAL:HA	2.42	0.49
1:H:151:ASN:CB	1:H:227:LEU:HD22	2.42	0.49
1:H:342:ASN:HB3	1:H:345:LEU:HB2	1.93	0.49
1:H:404:VAL:HG13	1:H:405:MET:HE3	1.95	0.49
1:I:443:GLN:NE2	2:P:758:LYS:NZ	2.58	0.49
1:J:151:ASN:CB	1:J:227:LEU:HD13	2.43	0.49
1:J:311:TRP:HE1	1:J:365:PRO:HD2	1.78	0.49
1:K:35:VAL:CG1	1:K:70:LEU:HD21	2.43	0.49
1:K:310:ALA:HB1	1:K:368:ILE:HG13	1.95	0.49
1:L:28:ILE:CD1	1:L:413:LEU:CD2	2.91	0.49
1:M:52:PHE:O	1:M:68:MET:N	2.45	0.49
1:N:200:LYS:CG	1:N:201:TYR:N	2.76	0.49
2:Y:749:GLU:HA	2:Y:752:ASN:HB3	1.93	0.49
2:Z:751:GLN:HA	2:Z:754:HIS:HB2	1.95	0.49
1:A:76:THR:O	1:A:78:VAL:HG23	2.13	0.49
1:A:119:MET:SD	1:A:127:PHE:HB2	2.53	0.49
1:A:368:ILE:N	1:A:368:ILE:HD12	2.28	0.49
1:B:124:PHE:CD2	1:B:250:LEU:HD22	2.48	0.49
1:B:321:ARG:O	1:B:333:GLU:N	2.46	0.49
1:C:273:HIS:O	1:C:276:ALA:HB3	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:377:LYS:CG	1:C:380:ARG:NH1	2.76	0.49
1:D:23:LEU:HD12	1:D:70:LEU:HD23	1.95	0.49
1:D:30:GLY:H	1:D:342:ASN:HD22	1.61	0.49
1:E:38:PRO:O	1:E:40:SER:N	2.46	0.49
1:F:26:THR:O	1:F:108:PRO:HG2	2.13	0.49
1:I:48:ASN:ND2	1:I:72:PRO:HD2	2.28	0.49
1:I:112:LEU:O	1:I:113:LYS:C	2.55	0.49
1:I:239:VAL:O	1:I:240:ASN:O	2.31	0.49
1:I:273:HIS:ND1	1:I:362:LEU:O	2.43	0.49
1:J:298:ARG:NH1	3:J:501:GLN:O	2.46	0.49
1:L:196:GLU:HG2	1:L:198:ASP:OD2	2.13	0.49
1:L:287:ALA:HB2	1:L:395:ALA:CB	2.39	0.49
1:M:97:TYR:CE2	1:M:103:PRO:CB	2.96	0.49
1:M:258:PHE:HZ	1:M:274:PHE:CD1	2.30	0.49
1:M:427:MET:SD	2:T:759:ASN:ND2	2.86	0.49
1:N:112:LEU:HD22	1:N:116:LEU:HD11	1.94	0.49
1:N:129:LEU:CG	1:N:347:LEU:HD21	2.41	0.49
1:N:189:GLU:HB2	1:N:194:GLN:O	2.12	0.49
1:N:235:PRO:CG	1:N:236:LEU:N	2.76	0.49
1:N:351:LEU:O	1:N:354:GLY:N	2.45	0.49
1:N:422:GLU:C	1:N:424:GLU:N	2.69	0.49
1:B:18:VAL:HG21	1:B:79:ILE:HD11	1.95	0.49
1:C:75:ASN:C	1:C:77:PHE:H	2.21	0.49
1:C:125:SER:HB3	1:C:253:ASN:H	1.78	0.49
1:D:169:ARG:HD3	1:D:186:SER:HB2	1.95	0.49
1:D:308:TYR:HE1	1:D:373:TYR:HD1	1.61	0.49
1:D:314:GLN:OE1	1:D:314:GLN:HA	2.13	0.49
1:E:429:ARG:HG2	1:E:429:ARG:HH11	1.77	0.49
1:G:85:GLU:N	1:G:85:GLU:CD	2.71	0.49
1:H:54:GLY:O	1:H:55:SER:C	2.56	0.49
1:H:308:TYR:CE2	1:H:380:ARG:NH1	2.81	0.49
1:H:338:ASP:CB	1:H:339:PRO:HD2	2.42	0.49
1:H:400:LYS:HG2	1:H:418:ILE:CD1	2.43	0.49
1:I:25:PHE:O	1:I:32:ILE:HG13	2.12	0.49
1:J:5:THR:CG2	1:J:6:ARG:N	2.75	0.49
1:J:200:LYS:O	1:J:201:TYR:O	2.30	0.49
1:J:220:THR:HG22	1:J:221:ILE:N	2.28	0.49
1:K:205:VAL:HG23	1:K:206:ARG:N	2.27	0.49
1:K:283:THR:CG2	1:K:398:GLU:OE1	2.61	0.49
1:K:302:GLY:C	1:K:304:GLU:H	2.20	0.49
1:K:302:GLY:HA3	2:1:750:GLY:CA	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:175:GLU:HA	1:M:175:GLU:OE2	2.13	0.49
1:M:219:LYS:HE2	1:M:229:ALA:O	2.13	0.49
1:M:360:ASN:O	1:M:361:LYS:HB2	2.13	0.49
1:N:156:TYR:O	1:N:157:PHE:HB2	2.13	0.49
1:N:309:VAL:HA	1:N:319:LEU:CD1	2.43	0.49
1:A:109:ARG:NH1	1:A:209:ASP:OD1	2.46	0.48
1:B:173:VAL:O	1:B:176:LEU:HB2	2.13	0.48
1:B:210:ASP:O	1:B:214:PHE:HB2	2.14	0.48
1:B:323:PRO:HD2	1:B:331:ARG:O	2.13	0.48
1:C:27:ASP:OD1	1:C:33:LYS:HE3	2.13	0.48
1:C:316:ARG:HB3	1:C:316:ARG:CZ	2.43	0.48
1:D:55:SER:O	1:D:62:ARG:CB	2.58	0.48
1:D:96:ILE:C	1:D:97:TYR:CD1	2.91	0.48
1:E:245:HIS:CD2	1:E:335:ARG:HG2	2.48	0.48
1:E:316:ARG:CG	2:W:747:MET:HG2	2.41	0.48
1:E:380:ARG:C	1:E:382:GLU:N	2.60	0.48
1:F:303:TYR:O	1:F:304:GLU:HB2	2.13	0.48
1:G:110:ASN:C	1:G:112:LEU:N	2.69	0.48
1:G:189:GLU:OE1	1:G:196:GLU:OE1	2.30	0.48
1:G:345:LEU:HD21	1:G:413:LEU:HD23	1.95	0.48
1:G:437:ARG:O	1:G:441:MET:CB	2.61	0.48
1:H:234:LYS:NZ	1:H:303:TYR:CE1	2.81	0.48
1:I:259:PHE:CE1	1:I:266:GLN:HG2	2.45	0.48
1:J:256:ASN:OD1	1:J:257:ALA:N	2.46	0.48
1:L:119:MET:CE	1:L:127:PHE:HB2	2.43	0.48
1:L:119:MET:HE1	1:L:127:PHE:HB2	1.95	0.48
1:L:318:PRO:HB2	1:L:320:ILE:O	2.13	0.48
1:L:370:ARG:HG2	1:L:371:ASN:N	2.28	0.48
1:M:176:LEU:CB	1:M:183:ILE:HD11	2.43	0.48
1:M:414:PHE:CZ	1:M:418:ILE:CD1	2.77	0.48
1:N:32:ILE:O	1:N:32:ILE:HD13	2.12	0.48
1:N:319:LEU:C	1:N:319:LEU:CD2	2.86	0.48
2:T:753:ALA:HA	2:T:756:ARG:HD3	1.95	0.48
1:A:140:LEU:HD12	1:A:226:GLY:O	2.09	0.48
1:A:183:ILE:HG12	1:G:38:PRO:HG3	1.95	0.48
1:A:381:MET:HE1	1:A:386:VAL:HA	1.95	0.48
1:B:60:PHE:CE2	2:W:758:LYS:HG3	2.47	0.48
1:B:140:LEU:HD12	1:B:226:GLY:O	2.12	0.48
1:B:402:ASN:OD1	1:B:404:VAL:HG13	2.13	0.48
1:C:168:CYS:C	1:C:170:ARG:N	2.70	0.48
1:C:336:SER:O	1:C:337:VAL:C	2.54	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:434:PRO:O	1:C:437:ARG:N	2.46	0.48
1:D:35:VAL:HG23	1:H:185:ALA:HB1	1.94	0.48
1:E:437:ARG:HH11	1:E:437:ARG:HG3	1.78	0.48
1:F:85:GLU:O	1:F:86:LYS:HB3	2.13	0.48
1:F:169:ARG:HH21	1:F:188:HIS:HD2	1.61	0.48
1:H:52:PHE:CD2	1:H:53:ASP:O	2.66	0.48
1:H:166:GLU:O	1:H:170:ARG:N	2.44	0.48
1:H:251:PHE:CB	1:H:255:VAL:O	2.62	0.48
1:H:338:ASP:C	1:H:338:ASP:OD2	2.56	0.48
1:I:53:ASP:CG	1:I:55:SER:HG	2.19	0.48
1:I:323:PRO:HB2	1:I:331:ARG:HH11	1.78	0.48
1:J:57:ILE:C	1:J:59:GLY:N	2.62	0.48
1:K:130:GLY:N	1:K:131:PRO:CD	2.76	0.48
1:L:423:ILE:O	1:L:426:ASP:HB3	2.13	0.48
1:N:316:ARG:C	1:N:318:PRO:HD3	2.38	0.48
1:N:316:ARG:HH21	2:V:751:GLN:N	2.11	0.48
1:A:404:VAL:HG13	1:A:405:MET:HE2	1.95	0.48
1:B:65:GLU:HB3	1:E:321:ARG:HH21	1.78	0.48
1:B:136:PHE:CE1	1:B:194:GLN:HG3	2.48	0.48
1:B:273:HIS:CE1	1:B:361:LYS:HB3	2.48	0.48
1:B:381:MET:HE1	1:B:386:VAL:HA	1.94	0.48
1:C:102:THR:O	1:C:102:THR:HG23	2.12	0.48
1:C:181:PHE:HB3	1:C:183:ILE:HG12	1.94	0.48
1:C:349:VAL:HA	1:C:352:ALA:HB3	1.95	0.48
1:C:355:LEU:O	1:C:356:ASP:C	2.55	0.48
1:D:5:THR:HG23	1:D:8:ASP:CG	2.38	0.48
1:D:31:THR:HG22	1:D:32:ILE:N	2.28	0.48
1:D:282:ALA:HB1	1:D:319:LEU:HD21	1.95	0.48
1:D:405:MET:HA	1:D:408:ALA:HB3	1.94	0.48
1:E:51:MET:HE1	1:E:67:ASP:CB	2.43	0.48
1:E:150:LEU:HD21	1:E:236:LEU:HD11	1.94	0.48
1:E:243:GLY:C	1:E:339:PRO:HD3	2.37	0.48
1:E:287:ALA:HB2	1:E:395:ALA:O	2.13	0.48
1:F:133:PRO:HB3	1:F:244:MET:HG3	1.95	0.48
1:F:365:PRO:O	1:F:367:PRO:CD	2.61	0.48
1:G:137:LEU:HD23	1:G:229:ALA:HA	1.94	0.48
1:G:235:PRO:HG2	1:G:236:LEU:H	1.78	0.48
1:G:297:LYS:O	1:G:300:VAL:HG23	2.13	0.48
1:I:110:ASN:O	1:I:112:LEU:N	2.46	0.48
1:I:156:TYR:CE2	1:I:157:PHE:CE1	3.01	0.48
1:K:417:PHE:CD2	1:K:417:PHE:C	2.91	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:141:ASP:HB3	1:N:147:THR:HG21	1.94	0.48
1:N:261:GLU:HA	1:N:266:GLN:HG2	1.94	0.48
1:N:406:VAL:HA	1:N:414:PHE:CD1	2.47	0.48
2:X:746:LYS:O	2:X:749:GLU:N	2.46	0.48
1:A:9:ILE:HD12	1:A:77:PHE:CD1	2.48	0.48
1:A:54:GLY:CA	1:A:68:MET:HE2	2.43	0.48
1:A:377:LYS:O	1:A:380:ARG:HG2	2.14	0.48
1:B:285:PHE:HE1	1:B:350:LEU:HD21	1.77	0.48
1:C:269:GLU:O	1:C:270:THR:C	2.57	0.48
1:C:285:PHE:C	1:C:285:PHE:HD1	2.22	0.48
1:D:303:TYR:CD1	2:X:753:ALA:HB1	2.49	0.48
1:E:91:ARG:HD3	1:E:92:PHE:O	2.14	0.48
1:E:280:LYS:O	1:E:281:HIS:CG	2.66	0.48
1:F:60:PHE:HD2	2:X:758:LYS:CG	2.27	0.48
1:G:127:PHE:CG	1:G:351:LEU:HD13	2.49	0.48
1:G:304:GLU:OE2	3:G:501:GLN:HG2	2.13	0.48
1:G:372:ILE:CG2	1:G:385:ILE:HD13	2.43	0.48
1:H:45:ALA:HA	1:H:50:VAL:CG2	2.42	0.48
1:H:405:MET:C	1:H:407:LYS:N	2.68	0.48
1:I:252:LYS:HG3	1:I:252:LYS:O	2.13	0.48
1:J:6:ARG:NH1	1:J:46:LEU:HB3	2.28	0.48
1:K:13:VAL:HA	1:K:18:VAL:HG23	1.94	0.48
1:K:18:VAL:HG11	1:K:21:ILE:CD1	2.44	0.48
1:K:203:GLY:O	1:K:207:SER:N	2.44	0.48
1:L:73:ASP:HB3	1:L:76:THR:HG23	1.96	0.48
1:L:96:ILE:N	1:L:96:ILE:CD1	2.76	0.48
1:L:119:MET:HE1	1:L:126:ASP:O	2.14	0.48
1:L:274:PHE:CE2	1:L:354:GLY:HA3	2.48	0.48
1:L:381:MET:HE2	1:L:386:VAL:HA	1.94	0.48
1:M:24:GLN:OE1	1:M:32:ILE:HG12	2.13	0.48
1:M:378:GLU:O	1:M:381:MET:N	2.44	0.48
1:N:52:PHE:CD1	1:N:70:LEU:HD13	2.47	0.48
2:X:752:ASN:C	2:X:754:HIS:H	2.22	0.48
1:A:124:PHE:CD2	1:A:250:LEU:HD22	2.48	0.48
1:B:44:LYS:HE3	1:B:49:LYS:C	2.37	0.48
1:D:217:VAL:HG12	1:D:221:ILE:HD11	1.96	0.48
1:D:228:HIS:CD2	1:D:229:ALA:N	2.81	0.48
1:D:369:ASP:O	1:D:370:ARG:C	2.57	0.48
1:D:412:HIS:C	1:D:412:HIS:ND1	2.71	0.48
1:E:63:ILE:HB	1:E:64:GLU:HG2	1.95	0.48
1:E:316:ARG:NH2	1:E:372:ILE:HG12	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:91:ARG:NH2	1:F:93:ILE:HD11	2.29	0.48
1:F:300:VAL:CG1	1:F:301:PRO:HD3	2.43	0.48
1:F:321:ARG:O	1:F:323:PRO:HD3	2.13	0.48
1:F:389:PRO:HA	1:F:394:GLU:CD	2.37	0.48
1:G:261:GLU:HB2	1:G:262:ASN:OD1	2.14	0.48
1:H:9:ILE:HG13	1:H:74:LEU:HD12	1.95	0.48
1:I:78:VAL:HG11	1:I:179:MET:HE3	1.95	0.48
1:L:161:PRO:HG3	1:L:188:HIS:HD2	1.78	0.48
1:L:316:ARG:HE	2:S:747:MET:HG2	1.78	0.48
1:L:391:THR:OG1	1:L:393:ALA:HB3	2.13	0.48
1:M:97:TYR:CD2	1:M:103:PRO:CA	2.96	0.48
1:M:406:VAL:HG13	1:M:414:PHE:CD2	2.49	0.48
1:N:133:PRO:HG3	1:N:199:PHE:HE2	1.78	0.48
1:N:169:ARG:CG	1:N:195:HIS:ND1	2.77	0.48
1:N:300:VAL:HG12	1:N:301:PRO:HD2	1.96	0.48
2:2:747:MET:HE2	2:2:751:GLN:HE21	1.78	0.48
1:A:279:VAL:O	1:A:279:VAL:HG12	2.13	0.48
1:A:292:THR:C	1:A:392:LEU:HD13	2.38	0.48
1:A:342:ASN:HB3	1:A:345:LEU:HB2	1.94	0.48
1:B:77:PHE:CE1	1:B:90:ALA:HB1	2.47	0.48
1:B:252:LYS:HE3	1:B:252:LYS:HB2	1.57	0.48
1:C:37:ILE:HG13	1:C:37:ILE:O	2.13	0.48
1:C:42:LEU:HA	1:C:45:ALA:HB3	1.96	0.48
1:C:54:GLY:C	1:C:56:SER:N	2.72	0.48
1:C:379:GLU:O	1:C:382:GLU:HG2	2.13	0.48
1:E:63:ILE:HG22	1:E:64:GLU:HG2	1.95	0.48
1:F:9:ILE:HD12	1:F:9:ILE:N	2.28	0.48
1:F:9:ILE:HG12	1:F:74:LEU:HD12	1.96	0.48
1:F:91:ARG:NE	1:F:93:ILE:CD1	2.76	0.48
1:G:184:GLU:H	1:G:199:PHE:HA	1.78	0.48
1:G:317:SER:HB2	1:G:373:TYR:OH	2.13	0.48
1:H:52:PHE:CE1	1:H:70:LEU:CD1	2.96	0.48
1:H:269:GLU:C	1:H:271:ALA:N	2.70	0.48
1:I:231:PHE:HB3	1:I:339:PRO:CB	2.38	0.48
1:I:302:GLY:CA	2:Q:750:GLY:CA	2.91	0.48
1:J:197:ILE:HD12	1:J:214:PHE:HZ	1.78	0.48
1:J:308:TYR:O	1:J:319:LEU:HB2	2.13	0.48
1:L:345:LEU:HD22	1:L:409:LEU:CD2	2.42	0.48
1:M:24:GLN:OE1	1:M:32:ILE:CD1	2.61	0.48
1:M:231:PHE:CD2	1:M:231:PHE:N	2.80	0.48
1:M:402:ASN:CG	1:M:404:VAL:HG12	2.37	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:300:VAL:HG13	1:N:301:PRO:HD2	1.95	0.48
2:S:753:ALA:C	2:S:757:TYR:HE1	2.22	0.48
1:A:370:ARG:NH2	1:A:375:MET:HE3	2.29	0.48
1:B:37:ILE:O	1:B:37:ILE:HG13	2.10	0.48
1:B:298:ARG:O	1:B:298:ARG:HG2	2.14	0.48
1:C:309:VAL:HG13	1:C:319:LEU:HD23	1.94	0.48
1:D:131:PRO:HD2	1:D:199:PHE:HD1	1.78	0.48
1:E:120:GLU:C	1:E:122:LEU:H	2.21	0.48
1:E:128:ASN:O	1:E:248:LEU:HA	2.13	0.48
1:E:246:CYS:O	1:E:248:LEU:HG	2.14	0.48
1:F:20:TYR:OH	1:F:36:GLU:CD	2.57	0.48
1:F:249:SER:O	1:F:251:PHE:CD1	2.67	0.48
1:G:435:TRP:O	1:G:439:GLN:HG2	2.13	0.48
1:I:247:ASN:HB3	1:I:331:ARG:HG3	1.96	0.48
1:J:289:THR:O	1:J:337:VAL:HA	2.14	0.48
1:J:370:ARG:NH2	1:J:373:TYR:H	2.12	0.48
1:M:232:MET:CE	1:M:294:ASN:ND2	2.77	0.48
1:M:418:ILE:O	1:M:419:GLU:C	2.56	0.48
1:N:168:CYS:O	1:N:170:ARG:N	2.47	0.48
1:N:315:ASN:O	1:N:318:PRO:CD	2.62	0.48
2:W:753:ALA:O	2:W:756:ARG:HG2	2.13	0.48
1:A:428:PHE:O	1:A:428:PHE:CG	2.67	0.48
1:A:436:GLU:O	1:C:232:MET:CE	2.62	0.48
1:B:6:ARG:HG2	1:B:10:GLU:OE1	2.12	0.48
1:C:196:GLU:HG2	1:C:197:ILE:N	2.29	0.48
1:D:20:TYR:CZ	1:D:36:GLU:HB2	2.49	0.48
1:D:50:VAL:CG1	1:D:51:MET:N	2.75	0.48
1:D:60:PHE:CE1	2:Y:755:PHE:CE2	3.01	0.48
1:D:252:LYS:O	1:D:253:ASN:HB2	2.13	0.48
1:E:127:PHE:CE2	1:E:351:LEU:HD22	2.49	0.48
1:E:292:THR:HB	1:F:440:TYR:CE1	2.49	0.48
1:E:381:MET:HE1	1:E:387:ASP:OD1	2.13	0.48
1:F:5:THR:O	1:F:6:ARG:C	2.57	0.48
1:F:380:ARG:CZ	1:F:380:ARG:HB2	2.44	0.48
1:G:250:LEU:HB2	1:G:258:PHE:CE2	2.48	0.48
1:G:260:ASP:OD1	1:G:263:ALA:CB	2.62	0.48
1:H:63:ILE:CD1	2:2:751:GLN:HE21	2.27	0.48
1:H:172:ILE:HG21	1:H:218:VAL:HG23	1.96	0.48
1:H:414:PHE:O	1:H:417:PHE:HB3	2.14	0.48
1:I:67:ASP:C	1:I:68:MET:HG2	2.37	0.48
1:I:166:GLU:HG2	1:I:167:ASN:H	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:315:ASN:O	1:I:316:ARG:C	2.56	0.48
1:J:61:VAL:HG23	1:J:61:VAL:O	2.14	0.48
1:K:5:THR:HG22	1:K:8:ASP:CG	2.39	0.48
1:K:291:PRO:HG3	1:K:341:ALA:HA	1.94	0.48
1:M:91:ARG:NH2	1:M:213:THR:OG1	2.47	0.48
1:M:345:LEU:HD21	1:M:413:LEU:CD1	2.44	0.48
1:M:351:LEU:O	1:M:355:LEU:HG	2.14	0.48
1:N:91:ARG:HD2	1:N:92:PHE:N	2.27	0.48
1:N:386:VAL:HG12	1:N:387:ASP:O	2.13	0.48
2:P:753:ALA:HA	2:P:756:ARG:HD2	1.94	0.48
1:A:441:MET:HE3	1:C:138:PHE:CD1	2.46	0.48
1:B:160:ALA:O	1:B:161:PRO:C	2.56	0.48
1:B:244:MET:O	1:B:245:HIS:C	2.57	0.48
1:B:403:GLU:O	1:B:406:VAL:HB	2.13	0.48
1:C:244:MET:HE2	1:C:337:VAL:CG1	2.43	0.48
1:C:333:GLU:HG2	1:C:335:ARG:HG2	1.95	0.48
1:D:25:PHE:CD1	1:D:25:PHE:C	2.91	0.48
1:E:308:TYR:HD2	1:E:387:ASP:HB3	1.77	0.48
1:E:370:ARG:H	1:E:370:ARG:NE	2.07	0.48
1:F:35:VAL:HG22	1:F:35:VAL:O	2.14	0.48
1:F:104:PHE:CD1	1:F:104:PHE:C	2.91	0.48
1:G:25:PHE:CE1	1:G:33:LYS:HB2	2.49	0.48
1:H:173:VAL:HG12	1:H:174:LEU:CD1	2.43	0.48
1:H:277:GLY:HA2	1:H:362:LEU:HD22	1.95	0.48
1:I:48:ASN:HB3	1:I:71:TYR:CE1	2.48	0.48
1:J:138:PHE:HB3	1:J:147:THR:O	2.14	0.48
1:J:286:THR:HG21	1:J:389:PRO:HD2	1.94	0.48
1:J:368:ILE:HG21	1:J:372:ILE:HG21	1.95	0.48
1:K:107:ASP:O	1:K:108:PRO:C	2.56	0.48
1:K:118:GLU:O	1:K:121:ASP:HB2	2.13	0.48
1:L:25:PHE:HD1	1:L:57:ILE:HD11	1.78	0.48
1:L:175:GLU:HG3	1:L:221:ILE:HD13	1.96	0.48
1:M:20:TYR:OH	1:M:36:GLU:HG3	2.14	0.48
1:M:265:LEU:O	1:M:326:ARG:NH1	2.46	0.48
1:N:189:GLU:OE1	1:N:196:GLU:OE1	2.32	0.48
1:N:342:ASN:C	1:N:344:TYR:N	2.71	0.48
2:W:757:TYR:C	2:W:759:ASN:H	2.22	0.48
1:B:302:GLY:HA2	2:Z:750:GLY:CA	2.44	0.48
1:B:441:MET:CE	1:D:138:PHE:CD1	2.96	0.48
1:C:193:GLY:O	1:C:194:GLN:C	2.57	0.48
1:C:220:THR:O	1:C:221:ILE:C	2.57	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:258:PHE:O	1:C:267:LEU:HD23	2.14	0.48
1:C:419:GLU:O	1:C:423:ILE:HG12	2.14	0.48
1:E:24:GLN:HE21	1:E:91:ARG:CD	2.27	0.48
1:E:115:ILE:O	1:E:115:ILE:CG2	2.62	0.48
1:F:371:ASN:HB3	1:F:374:VAL:CG1	2.43	0.48
1:G:234:LYS:HD3	1:G:298:ARG:HA	1.96	0.48
1:H:18:VAL:HG11	1:H:21:ILE:CD1	2.44	0.48
1:H:102:THR:HG23	1:H:103:PRO:HD2	1.96	0.48
1:H:244:MET:O	1:H:337:VAL:CG1	2.61	0.48
1:I:38:PRO:HG2	1:L:183:ILE:CG1	2.44	0.48
1:J:184:GLU:OE2	1:J:200:LYS:HB3	2.13	0.48
1:K:107:ASP:OD1	1:K:108:PRO:HD2	2.14	0.48
1:K:136:PHE:CE1	1:K:235:PRO:CG	2.97	0.48
1:L:28:ILE:CD1	1:L:413:LEU:HD23	2.44	0.48
1:L:164:LEU:C	1:L:168:CYS:HB3	2.39	0.48
1:L:432:VAL:HG12	1:L:437:ARG:NH1	2.29	0.48
1:M:190:VAL:CG1	1:M:191:ALA:N	2.76	0.48
2:Q:748:LEU:O	2:Q:748:LEU:HD22	2.14	0.48
2:Y:758:LYS:HB3	2:Y:758:LYS:HE3	1.72	0.48
1:A:57:ILE:HD11	1:A:96:ILE:HD11	1.95	0.47
1:A:127:PHE:HE1	1:A:274:PHE:CZ	2.32	0.47
1:A:163:ASP:HB3	1:G:83:THR:HG23	1.85	0.47
1:A:293:VAL:HG23	1:C:440:TYR:OH	2.14	0.47
1:A:351:LEU:O	1:A:355:LEU:N	2.40	0.47
1:A:360:ASN:O	1:A:361:LYS:C	2.57	0.47
1:B:282:ALA:HB1	1:B:309:VAL:HG22	1.96	0.47
1:B:368:ILE:HG23	1:B:369:ASP:H	1.79	0.47
1:C:51:MET:SD	1:C:69:TYR:CE1	3.07	0.47
1:C:338:ASP:O	1:C:340:ALA:N	2.47	0.47
1:C:406:VAL:HG23	1:C:407:LYS:N	2.29	0.47
1:D:251:PHE:CD1	1:D:251:PHE:N	2.82	0.47
1:E:26:THR:HG22	1:E:27:ASP:O	2.14	0.47
1:E:264:ASP:O	1:E:265:LEU:HB2	2.13	0.47
1:E:292:THR:CG2	1:F:444:TYR:CZ	2.97	0.47
1:F:92:PHE:N	1:F:92:PHE:CD1	2.81	0.47
1:F:175:GLU:O	1:F:179:MET:HG3	2.14	0.47
1:F:376:SER:O	1:F:380:ARG:HB2	2.14	0.47
1:G:10:GLU:O	1:G:13:VAL:N	2.47	0.47
1:H:91:ARG:HD2	1:H:91:ARG:C	2.39	0.47
1:H:173:VAL:HG12	1:H:174:LEU:HD13	1.96	0.47
1:I:282:ALA:C	1:I:284:SER:H	2.21	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:220:THR:C	1:J:222:ALA:N	2.72	0.47
1:K:51:MET:HA	1:K:68:MET:O	2.13	0.47
1:K:400:LYS:HD3	1:K:418:ILE:HG21	1.95	0.47
1:L:370:ARG:CG	1:L:371:ASN:H	2.26	0.47
1:M:168:CYS:C	1:M:170:ARG:N	2.68	0.47
1:M:244:MET:SD	1:M:339:PRO:HA	2.54	0.47
1:N:58:GLU:O	1:N:61:VAL:HG22	2.14	0.47
1:N:156:TYR:CE2	1:N:157:PHE:HE1	2.32	0.47
1:N:170:ARG:O	1:N:171:ASP:C	2.56	0.47
1:N:250:LEU:HB2	1:N:258:PHE:CZ	2.49	0.47
2:Y:751:GLN:O	2:Y:754:HIS:N	2.46	0.47
1:A:156:TYR:CZ	1:A:157:PHE:CE1	3.01	0.47
1:A:168:CYS:SG	1:A:172:ILE:HG12	2.54	0.47
1:B:20:TYR:CD1	1:E:174:LEU:HD11	2.49	0.47
1:B:53:ASP:C	1:B:53:ASP:OD2	2.57	0.47
1:B:402:ASN:OD1	1:B:402:ASN:C	2.56	0.47
1:C:273:HIS:CD2	1:C:361:LYS:HA	2.48	0.47
1:D:51:MET:SD	1:D:69:TYR:CE2	3.06	0.47
1:E:9:ILE:HG13	1:E:74:LEU:CD1	2.44	0.47
1:E:275:ILE:HD13	1:E:332:VAL:CG1	2.44	0.47
1:F:4:TYR:HB3	1:F:9:ILE:CD1	2.44	0.47
1:G:52:PHE:CZ	1:G:96:ILE:HG23	2.48	0.47
1:G:244:MET:O	1:G:337:VAL:HB	2.14	0.47
1:G:320:ILE:HG23	1:G:332:VAL:HG12	1.95	0.47
1:H:281:HIS:HD2	1:H:353:ALA:CB	2.26	0.47
1:H:297:LYS:HE3	1:N:436:GLU:CD	2.39	0.47
1:I:215:LYS:HA	1:I:231:PHE:HE2	1.72	0.47
1:I:377:LYS:HE3	1:I:387:ASP:OD2	2.14	0.47
1:J:293:VAL:HG11	1:J:428:PHE:CE2	2.49	0.47
1:K:265:LEU:C	1:K:267:LEU:N	2.70	0.47
1:K:328:ILE:HD12	1:K:328:ILE:N	2.29	0.47
1:K:443:GLN:C	1:K:444:TYR:HD2	2.21	0.47
1:M:6:ARG:O	1:M:10:GLU:HG3	2.13	0.47
1:M:46:LEU:HD11	1:M:74:LEU:HD11	1.96	0.47
2:X:747:MET:O	2:X:750:GLY:CA	2.62	0.47
1:A:163:ASP:HA	1:A:170:ARG:CZ	2.27	0.47
1:B:56:SER:HB3	1:E:156:TYR:CE2	2.49	0.47
1:B:163:ASP:H	1:B:166:GLU:HB2	1.80	0.47
1:B:363:GLU:O	1:B:364:ALA:C	2.56	0.47
1:B:441:MET:CE	1:D:138:PHE:HD1	2.27	0.47
1:C:100:ASP:OD1	1:C:102:THR:HG22	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:112:LEU:HD13	1:C:205:VAL:HG13	1.96	0.47
1:D:246:CYS:O	1:D:333:GLU:HA	2.13	0.47
1:E:83:THR:HG21	1:E:89:VAL:HB	1.95	0.47
1:E:433:HIS:HB3	1:E:434:PRO:CD	2.44	0.47
1:F:6:ARG:HG3	1:F:10:GLU:OE1	2.15	0.47
1:G:114:ARG:NH1	1:G:114:ARG:HG2	2.29	0.47
1:G:119:MET:CE	1:G:250:LEU:HD23	2.44	0.47
1:H:302:GLY:CA	2:Y:750:GLY:CA	2.92	0.47
1:H:337:VAL:CG1	1:H:338:ASP:N	2.77	0.47
1:I:21:ILE:HD13	1:I:90:ALA:HB3	1.96	0.47
1:I:95:ASP:OD1	1:I:109:ARG:HD3	2.14	0.47
1:I:131:PRO:HG2	1:I:211:ILE:CD1	2.32	0.47
1:I:169:ARG:HH22	1:I:188:HIS:HB2	1.79	0.47
1:I:338:ASP:OD2	1:I:340:ALA:HB3	2.15	0.47
1:I:402:ASN:C	1:I:402:ASN:OD1	2.57	0.47
1:J:184:GLU:O	1:J:185:ALA:HB2	2.14	0.47
1:K:39:VAL:O	1:K:39:VAL:HG22	2.14	0.47
1:L:54:GLY:C	1:L:56:SER:H	2.21	0.47
1:M:294:ASN:C	1:M:296:TYR:N	2.68	0.47
1:M:338:ASP:HB2	1:M:339:PRO:HD2	1.95	0.47
1:N:169:ARG:HE	1:N:195:HIS:CE1	2.31	0.47
2:Q:751:GLN:NE2	2:Q:751:GLN:HA	2.29	0.47
1:A:285:PHE:CD1	1:A:285:PHE:C	2.93	0.47
1:B:60:PHE:CD1	1:B:60:PHE:C	2.92	0.47
1:B:213:THR:O	1:B:217:VAL:HG23	2.14	0.47
1:B:285:PHE:CE1	1:B:350:LEU:HD23	2.49	0.47
1:C:60:PHE:CD1	2:Q:755:PHE:CE2	3.02	0.47
1:C:91:ARG:C	1:C:91:ARG:CD	2.88	0.47
1:D:27:ASP:OD1	1:D:31:THR:HB	2.13	0.47
1:D:91:ARG:CD	1:D:91:ARG:O	2.63	0.47
1:D:140:LEU:HD12	1:D:226:GLY:C	2.39	0.47
1:D:194:GLN:O	1:D:195:HIS:CD2	2.68	0.47
1:D:285:PHE:CD1	1:D:285:PHE:C	2.92	0.47
1:D:357:GLY:HA2	1:D:362:LEU:HD23	1.96	0.47
1:E:20:TYR:HB3	1:E:89:VAL:HG13	1.95	0.47
1:E:96:ILE:CG2	1:E:104:PHE:CB	2.92	0.47
1:E:375:MET:HB3	1:E:379:GLU:CD	2.38	0.47
1:F:38:PRO:O	1:F:40:SER:N	2.48	0.47
1:F:67:ASP:C	1:F:68:MET:HG2	2.39	0.47
1:F:119:MET:HE2	1:F:124:PHE:HB2	1.96	0.47
1:H:187:HIS:C	1:H:188:HIS:O	2.58	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:251:PHE:N	1:H:251:PHE:HD1	2.12	0.47
1:I:136:PHE:CE2	1:I:194:GLN:HB2	2.49	0.47
1:J:50:VAL:CG1	1:J:51:MET:N	2.77	0.47
1:J:211:ILE:O	1:J:214:PHE:HB3	2.14	0.47
1:K:349:VAL:O	1:K:405:MET:HE1	2.15	0.47
1:L:301:PRO:HB3	2:S:746:LYS:HD3	1.94	0.47
1:L:383:ASN:O	1:L:385:ILE:N	2.41	0.47
1:L:437:ARG:NH1	1:M:235:PRO:O	2.44	0.47
1:L:439:GLN:HE22	2:T:759:ASN:C	2.22	0.47
1:M:76:THR:O	1:M:91:ARG:NH1	2.48	0.47
1:M:120:GLU:O	1:M:122:LEU:N	2.46	0.47
1:M:138:PHE:O	1:M:228:HIS:N	2.33	0.47
1:M:189:GLU:CB	1:M:194:GLN:HB3	2.41	0.47
1:M:259:PHE:CD2	1:M:327:GLY:HA2	2.49	0.47
1:N:55:SER:OG	1:N:62:ARG:CB	2.63	0.47
1:N:283:THR:HG22	1:N:388:LEU:HA	1.96	0.47
1:N:297:LYS:O	1:N:300:VAL:CG2	2.63	0.47
1:A:34:ASN:OD1	1:F:159:LEU:HD22	2.14	0.47
1:A:57:ILE:C	1:A:59:GLY:N	2.71	0.47
1:A:435:TRP:HZ3	1:C:293:VAL:HG21	1.80	0.47
1:B:171:ASP:CG	1:B:225:HIS:HE1	2.21	0.47
1:B:368:ILE:CG2	1:B:369:ASP:H	2.24	0.47
1:C:85:GLU:H	1:C:85:GLU:HG3	1.51	0.47
1:C:113:LYS:H	1:C:113:LYS:HG2	1.40	0.47
1:C:208:CYS:SG	1:C:347:LEU:HD23	2.54	0.47
1:D:46:LEU:C	1:D:48:ASN:N	2.70	0.47
1:D:181:PHE:HB3	1:D:183:ILE:CG1	2.42	0.47
1:D:194:GLN:O	1:D:195:HIS:CG	2.67	0.47
1:D:380:ARG:O	1:D:382:GLU:N	2.48	0.47
1:D:405:MET:C	1:D:408:ALA:HB3	2.40	0.47
1:E:23:LEU:HD11	1:E:37:ILE:HD13	1.96	0.47
1:E:402:ASN:OD1	1:E:402:ASN:O	2.31	0.47
1:F:259:PHE:HD1	1:F:327:GLY:H	1.61	0.47
1:G:23:LEU:HB2	1:G:35:VAL:HG13	1.97	0.47
1:G:110:ASN:O	1:G:111:ASN:C	2.56	0.47
1:G:300:VAL:CG1	1:G:301:PRO:CD	2.90	0.47
1:H:281:HIS:O	1:H:285:PHE:HD2	1.93	0.47
1:I:45:ALA:HA	1:I:50:VAL:CG2	2.41	0.47
1:I:343:PRO:O	1:I:347:LEU:HB2	2.14	0.47
1:J:13:VAL:HG21	1:J:42:LEU:CD2	2.44	0.47
1:J:19:LYS:CD	1:J:87:GLY:HA3	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:312:SER:OG	1:J:315:ASN:HB2	2.14	0.47
1:J:345:LEU:HD22	1:J:409:LEU:CD2	2.42	0.47
1:K:167:ASN:HD22	1:K:170:ARG:NH1	2.12	0.47
1:K:214:PHE:CE1	1:K:218:VAL:CG2	2.97	0.47
1:K:286:THR:CG2	1:K:296:TYR:OH	2.63	0.47
1:K:323:PRO:HB2	1:K:331:ARG:NH1	2.28	0.47
1:L:53:ASP:OD2	1:L:65:GLU:HA	2.14	0.47
1:M:286:THR:HG23	1:M:296:TYR:OH	2.14	0.47
1:A:60:PHE:CD1	1:A:61:VAL:HG13	2.50	0.47
1:B:109:ARG:HA	1:B:344:TYR:CD2	2.50	0.47
1:B:212:GLN:OE1	1:B:212:GLN:CA	2.57	0.47
1:B:239:VAL:C	2:Z:757:TYR:OH	2.58	0.47
1:C:63:ILE:HG23	2:Q:747:MET:HE3	1.96	0.47
1:C:244:MET:HB2	1:C:339:PRO:HD3	1.95	0.47
1:D:31:THR:HG22	1:D:32:ILE:H	1.80	0.47
1:D:252:LYS:O	1:D:253:ASN:CB	2.63	0.47
1:D:396:LEU:O	1:D:399:PHE:HB3	2.15	0.47
1:E:120:GLU:C	1:E:122:LEU:N	2.72	0.47
1:E:128:ASN:HA	1:E:202:ALA:O	2.14	0.47
1:F:291:PRO:HD3	1:F:341:ALA:HB2	1.96	0.47
1:F:310:ALA:HB1	1:F:368:ILE:HG13	1.96	0.47
1:F:410:GLY:O	1:F:412:HIS:N	2.47	0.47
1:H:78:VAL:HG12	1:H:79:ILE:N	2.30	0.47
1:I:110:ASN:C	1:I:112:LEU:N	2.73	0.47
1:I:380:ARG:O	1:I:385:ILE:HB	2.14	0.47
1:I:389:PRO:HB3	1:I:395:ALA:HA	1.97	0.47
1:I:418:ILE:CG2	1:I:422:GLU:OE2	2.63	0.47
1:J:5:THR:CG2	1:J:6:ARG:H	2.27	0.47
1:J:152:ASP:OD2	1:J:152:ASP:C	2.58	0.47
1:J:427:MET:HE2	1:J:427:MET:HB3	1.71	0.47
1:J:427:MET:O	1:K:435:TRP:CZ2	2.68	0.47
1:K:158:ASP:HA	1:L:33:LYS:HG2	1.97	0.47
1:K:239:VAL:HG13	2:1:757:TYR:CE2	2.50	0.47
1:L:20:TYR:OH	1:L:36:GLU:OE2	2.31	0.47
1:L:26:THR:CG2	1:L:212:GLN:NE2	2.78	0.47
1:L:28:ILE:HG23	1:L:29:LEU:HG	1.97	0.47
1:L:290:ASN:HA	1:L:338:ASP:OD2	2.15	0.47
1:M:261:GLU:OE1	1:M:262:ASN:ND2	2.48	0.47
1:N:55:SER:O	1:N:62:ARG:HB3	2.14	0.47
1:N:306:PRO:HB3	1:N:319:LEU:HA	1.96	0.47
1:N:319:LEU:HD22	1:N:320:ILE:HD11	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:752:ASN:O	2:O:752:ASN:ND2	2.46	0.47
2:Y:750:GLY:O	2:Y:751:GLN:C	2.56	0.47
1:A:60:PHE:HD1	2:O:755:PHE:HE2	1.62	0.47
1:B:191:ALA:HA	1:B:192:PRO:HD3	1.80	0.47
1:C:7:GLU:H	1:C:7:GLU:HG2	1.42	0.47
1:C:134:GLU:HG2	1:C:196:GLU:HB2	1.96	0.47
1:C:191:ALA:HB3	1:C:194:GLN:OE1	2.15	0.47
1:C:311:TRP:NE1	1:C:367:PRO:HA	2.29	0.47
1:D:36:GLU:H	1:D:36:GLU:HG2	1.59	0.47
1:D:60:PHE:CD2	2:Y:758:LYS:CE	2.98	0.47
1:D:62:ARG:CD	2:Y:754:HIS:HE1	2.27	0.47
1:D:399:PHE:CE1	1:D:405:MET:HB3	2.50	0.47
1:E:9:ILE:O	1:E:12:LEU:N	2.44	0.47
1:E:54:GLY:HA3	1:E:68:MET:HE2	1.97	0.47
1:E:82:TRP:CZ2	1:E:220:THR:HG21	2.49	0.47
1:E:390:ALA:O	1:E:391:THR:HG23	2.15	0.47
1:F:4:TYR:CE2	1:F:12:LEU:HD11	2.50	0.47
1:F:9:ILE:O	1:F:12:LEU:HB2	2.14	0.47
1:F:112:LEU:HD13	1:F:205:VAL:HG13	1.97	0.47
1:F:119:MET:HE3	1:F:250:LEU:CD2	2.43	0.47
1:F:123:GLY:O	1:F:252:LYS:NZ	2.47	0.47
1:F:315:ASN:HD22	1:F:369:ASP:HA	1.78	0.47
1:F:316:ARG:CG	2:O:747:MET:CE	2.92	0.47
1:F:351:LEU:O	1:F:355:LEU:HG	2.13	0.47
1:G:130:GLY:O	1:G:247:ASN:HB2	2.14	0.47
1:G:170:ARG:HD3	1:M:20:TYR:CD2	2.49	0.47
1:G:302:GLY:O	1:G:303:TYR:C	2.58	0.47
1:G:308:TYR:OH	2:T:746:LYS:NZ	2.34	0.47
1:G:379:GLU:O	1:G:382:GLU:CG	2.63	0.47
1:G:382:GLU:HG3	1:G:383:ASN:HD21	1.79	0.47
1:G:439:GLN:OE1	2:S:759:ASN:C	2.57	0.47
1:H:167:ASN:OD1	1:H:170:ARG:HD2	2.15	0.47
1:H:170:ARG:O	1:H:173:VAL:N	2.36	0.47
1:H:187:HIS:O	1:H:188:HIS:C	2.56	0.47
1:I:112:LEU:O	1:I:115:ILE:N	2.46	0.47
1:I:119:MET:O	1:I:119:MET:HG2	2.11	0.47
1:J:33:LYS:HB3	1:M:157:PHE:O	2.15	0.47
1:J:214:PHE:O	1:J:215:LYS:C	2.58	0.47
1:K:47:ASP:O	1:K:48:ASN:HB2	2.14	0.47
1:K:220:THR:O	1:K:221:ILE:C	2.57	0.47
1:L:22:ARG:HD3	1:L:34:ASN:OD1	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:61:VAL:HG23	1:L:416:HIS:HD2	1.79	0.47
1:M:82:TRP:CH2	1:M:217:VAL:HG22	2.50	0.47
1:M:139:LYS:HB2	1:M:149:GLU:HB3	1.96	0.47
1:M:423:ILE:HA	1:M:423:ILE:HD13	1.66	0.47
1:N:105:GLU:HG3	1:N:106:GLY:N	2.29	0.47
1:N:110:ASN:C	1:N:112:LEU:N	2.72	0.47
1:N:310:ALA:HB1	1:N:368:ILE:HD13	1.97	0.47
1:N:410:GLY:O	1:N:411:GLU:C	2.56	0.47
2:U:749:GLU:HA	2:U:752:ASN:HB3	1.96	0.47
2:W:750:GLY:O	2:W:754:HIS:HB2	2.14	0.47
1:A:286:THR:CG2	1:A:389:PRO:HG2	2.29	0.47
1:C:53:ASP:OD2	1:C:53:ASP:C	2.56	0.47
1:C:118:GLU:O	1:C:122:LEU:HB2	2.15	0.47
1:D:78:VAL:CG1	1:D:179:MET:HE3	2.45	0.47
1:D:252:LYS:C	1:D:253:ASN:ND2	2.72	0.47
1:D:299:LEU:HA	1:D:305:ALA:HB1	1.96	0.47
1:D:392:LEU:O	1:D:392:LEU:HG	2.15	0.47
1:E:20:TYR:CZ	1:E:36:GLU:HB2	2.50	0.47
1:E:25:PHE:HE2	1:E:35:VAL:HG12	1.80	0.47
1:E:139:LYS:HG2	1:E:227:LEU:CD2	2.45	0.47
1:E:295:SER:OG	1:E:338:ASP:OD1	2.30	0.47
1:E:434:PRO:O	1:E:438:GLU:OE1	2.33	0.47
1:F:24:GLN:O	1:F:93:ILE:HA	2.15	0.47
1:F:93:ILE:HG21	1:F:109:ARG:NH2	2.29	0.47
1:F:326:ARG:CD	1:F:330:THR:HG23	2.43	0.47
1:G:260:ASP:OD1	1:G:263:ALA:HB2	2.15	0.47
1:G:370:ARG:C	1:G:372:ILE:HD13	2.40	0.47
1:I:37:ILE:C	1:I:37:ILE:HD12	2.40	0.47
1:J:296:TYR:CE1	1:J:392:LEU:HA	2.50	0.47
1:J:302:GLY:O	2:2:753:ALA:CB	2.63	0.47
1:K:191:ALA:HB2	1:K:240:ASN:HB2	1.96	0.47
1:K:368:ILE:HG21	1:K:372:ILE:CG2	2.45	0.47
1:K:402:ASN:O	1:K:406:VAL:HG23	2.15	0.47
1:L:60:PHE:C	1:L:60:PHE:CD1	2.93	0.47
1:L:64:GLU:C	1:L:65:GLU:O	2.56	0.47
1:L:223:ARG:HG3	1:L:223:ARG:HH11	1.79	0.47
1:L:325:SER:O	1:L:330:THR:HA	2.15	0.47
1:M:21:ILE:HD13	1:M:42:LEU:HD22	1.93	0.47
1:M:26:THR:OG1	1:M:212:GLN:NE2	2.48	0.47
1:N:237:PHE:CD1	1:N:238:GLY:N	2.83	0.47
2:O:753:ALA:CA	2:O:756:ARG:HD3	2.42	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:6:ARG:CG	1:A:10:GLU:OE1	2.61	0.47
1:A:34:ASN:CG	1:F:159:LEU:HD22	2.40	0.47
1:B:316:ARG:C	1:B:318:PRO:HD3	2.40	0.47
1:C:199:PHE:HZ	1:C:214:PHE:CG	2.33	0.47
1:C:260:ASP:HB2	1:C:268:SER:CA	2.45	0.47
1:C:377:LYS:HG3	1:C:380:ARG:NH1	2.30	0.47
1:D:60:PHE:CD2	2:Y:758:LYS:HE2	2.49	0.47
1:D:245:HIS:CE1	1:D:335:ARG:CD	2.88	0.47
1:E:23:LEU:HB2	1:E:35:VAL:HG13	1.97	0.47
1:E:171:ASP:O	1:E:175:GLU:HG2	2.15	0.47
1:E:250:LEU:HD12	1:E:274:PHE:CD1	2.50	0.47
1:F:80:PHE:HA	1:F:81:PRO:HD3	1.77	0.47
1:G:335:ARG:HH21	1:G:335:ARG:CB	2.28	0.47
1:G:368:ILE:HG12	1:G:372:ILE:CG2	2.44	0.47
1:H:16:GLU:HG2	1:H:79:ILE:HD13	1.97	0.47
1:J:355:LEU:O	1:J:358:ILE:N	2.47	0.47
1:K:208:CYS:SG	1:K:347:LEU:HD11	2.54	0.47
1:K:302:GLY:CA	2:1:746:LYS:O	2.63	0.47
1:L:414:PHE:C	1:L:414:PHE:CD2	2.92	0.47
1:M:96:ILE:HG22	1:M:104:PHE:CB	2.44	0.47
1:M:182:GLU:O	1:M:199:PHE:CB	2.62	0.47
1:M:311:TRP:CE3	1:M:367:PRO:HB3	2.50	0.47
1:M:443:GLN:OE1	1:M:444:TYR:CZ	2.68	0.47
1:N:320:ILE:CG2	1:N:332:VAL:HG23	2.45	0.47
1:N:380:ARG:O	1:N:380:ARG:CG	2.61	0.47
2:W:748:LEU:O	2:W:752:ASN:CB	2.52	0.47
1:A:98:ASN:N	1:A:102:THR:O	2.48	0.47
1:A:150:LEU:HD13	1:A:192:PRO:HB2	1.97	0.47
1:A:405:MET:C	1:A:407:LYS:N	2.72	0.47
1:A:433:HIS:CD2	1:A:433:HIS:H	2.31	0.47
1:B:127:PHE:HE1	1:B:274:PHE:CZ	2.33	0.47
1:B:397:GLU:HA	1:B:397:GLU:OE1	2.15	0.47
1:C:22:ARG:NH2	1:I:163:ASP:OD1	2.47	0.47
1:C:286:THR:O	1:C:286:THR:HG22	2.15	0.47
1:D:77:PHE:O	1:D:78:VAL:HG23	2.14	0.47
1:D:238:GLY:O	1:D:303:TYR:HE1	1.98	0.47
1:D:380:ARG:C	1:D:382:GLU:H	2.23	0.47
1:D:433:HIS:O	1:D:434:PRO:C	2.58	0.47
1:E:116:LEU:HD23	1:E:351:LEU:CD2	2.45	0.47
1:F:112:LEU:O	1:F:116:LEU:HG	2.15	0.47
1:F:194:GLN:HE22	1:F:241:GLY:C	2.23	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:406:VAL:HA	1:F:414:PHE:CE1	2.50	0.47
1:G:421:LYS:O	1:G:422:GLU:C	2.58	0.47
1:I:151:ASN:O	1:I:152:ASP:CB	2.61	0.47
1:I:283:THR:HG23	1:I:309:VAL:HG21	1.97	0.47
1:J:20:TYR:C	1:J:21:ILE:HG13	2.38	0.47
1:J:98:ASN:HD22	1:J:99:PRO:CD	2.28	0.47
1:K:130:GLY:N	1:K:131:PRO:HD3	2.30	0.47
1:M:307:CYS:O	1:M:308:TYR:CD2	2.68	0.47
1:M:309:VAL:O	1:M:310:ALA:HB2	2.15	0.47
1:N:351:LEU:HG	1:N:355:LEU:HD12	1.97	0.47
1:A:156:TYR:HE1	1:A:189:GLU:OE2	1.97	0.46
1:A:161:PRO:HB3	1:A:166:GLU:HB3	1.97	0.46
1:A:234:LYS:N	1:A:294:ASN:OD1	2.46	0.46
1:A:257:ALA:O	1:A:268:SER:CB	2.63	0.46
1:B:68:MET:HE1	1:B:104:PHE:CE2	2.50	0.46
1:B:69:TYR:CE1	1:B:99:PRO:HA	2.49	0.46
1:B:324:ALA:O	1:B:325:SER:C	2.58	0.46
1:C:127:PHE:C	1:C:128:ASN:HD22	2.23	0.46
1:C:304:GLU:HB3	3:C:503:GLN:HG2	1.97	0.46
1:D:169:ARG:HD2	1:D:186:SER:CB	2.45	0.46
1:D:393:ALA:HB2	1:D:425:TRP:CE2	2.50	0.46
1:E:112:LEU:O	1:E:116:LEU:HG	2.15	0.46
1:E:321:ARG:HH11	1:E:323:PRO:HG3	1.80	0.46
1:F:217:VAL:HG12	1:F:221:ILE:HD11	1.97	0.46
1:F:316:ARG:NH1	1:F:371:ASN:HA	2.30	0.46
1:G:32:ILE:HG21	1:G:216:LEU:HD12	1.97	0.46
1:G:68:MET:HG2	1:G:96:ILE:CG2	2.37	0.46
1:I:156:TYR:O	1:I:157:PHE:HB2	2.14	0.46
1:I:261:GLU:HA	1:I:266:GLN:HG2	1.96	0.46
1:J:404:VAL:O	1:J:404:VAL:HG22	2.15	0.46
1:K:114:ARG:HA	1:K:117:LYS:CD	2.44	0.46
1:K:141:ASP:HB3	1:K:147:THR:HG22	1.97	0.46
1:K:294:ASN:O	1:K:295:SER:C	2.58	0.46
1:M:141:ASP:OD2	1:M:143:LYS:N	2.48	0.46
1:M:316:ARG:HG3	1:M:373:TYR:CE1	2.50	0.46
1:M:326:ARG:CA	1:M:330:THR:OG1	2.62	0.46
1:M:327:GLY:N	1:M:330:THR:OG1	2.46	0.46
1:N:102:THR:HG22	1:N:103:PRO:O	2.15	0.46
1:N:199:PHE:CZ	1:N:211:ILE:HG12	2.47	0.46
1:A:38:PRO:C	1:A:40:SER:N	2.72	0.46
1:A:230:THR:O	1:A:230:THR:HG23	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:381:MET:CE	1:A:386:VAL:HA	2.45	0.46
1:B:134:GLU:HG2	1:B:189:GLU:HG3	1.98	0.46
1:B:192:PRO:HD3	2:Z:757:TYR:HD2	1.79	0.46
1:D:78:VAL:HG11	1:D:179:MET:HE3	1.97	0.46
1:D:316:ARG:HD2	1:D:317:SER:N	2.30	0.46
1:F:316:ARG:HG2	2:O:747:MET:SD	2.56	0.46
1:F:413:LEU:HD23	1:F:413:LEU:HA	1.73	0.46
1:G:50:VAL:HG12	1:G:51:MET:N	2.29	0.46
1:G:83:THR:OG1	1:G:89:VAL:N	2.47	0.46
1:G:112:LEU:HD22	1:G:116:LEU:HD11	1.96	0.46
1:G:182:GLU:O	1:G:200:LYS:HB2	2.15	0.46
1:H:305:ALA:HA	1:H:306:PRO:HD3	1.77	0.46
1:I:122:LEU:HD11	1:I:359:LYS:HZ2	1.80	0.46
1:I:168:CYS:HA	1:I:225:HIS:CE1	2.50	0.46
1:I:311:TRP:CZ3	1:I:322:ILE:HD12	2.33	0.46
1:J:302:GLY:O	2:2:750:GLY:HA2	2.14	0.46
1:J:303:TYR:CE1	2:2:753:ALA:CB	2.98	0.46
1:K:27:ASP:O	1:K:108:PRO:HG2	2.15	0.46
1:K:35:VAL:HG11	1:K:70:LEU:CD2	2.45	0.46
1:K:192:PRO:HD3	2:1:757:TYR:CD2	2.49	0.46
1:K:253:ASN:O	1:K:255:VAL:HG22	2.15	0.46
1:K:350:LEU:O	1:K:351:LEU:C	2.57	0.46
1:L:117:LYS:CA	1:L:120:GLU:HG3	2.45	0.46
1:M:116:LEU:HD22	1:M:119:MET:CE	2.45	0.46
1:M:132:GLU:HB2	1:M:245:HIS:HB2	1.97	0.46
1:M:214:PHE:CZ	1:M:218:VAL:CG2	2.98	0.46
1:N:258:PHE:HA	1:N:268:SER:OG	2.15	0.46
1:A:172:ILE:CD1	1:A:221:ILE:HB	2.46	0.46
1:B:387:ASP:C	1:B:388:LEU:O	2.53	0.46
1:C:166:GLU:O	1:C:170:ARG:HG3	2.15	0.46
1:D:24:GLN:HG3	1:D:32:ILE:HD11	1.96	0.46
1:D:96:ILE:N	1:D:96:ILE:CD1	2.76	0.46
1:E:46:LEU:C	1:E:48:ASN:H	2.23	0.46
1:E:59:GLY:C	1:E:61:VAL:H	2.24	0.46
1:E:78:VAL:HG11	1:E:179:MET:CE	2.45	0.46
1:E:80:PHE:HB2	1:E:83:THR:CG2	2.46	0.46
1:E:119:MET:HG2	1:E:124:PHE:HB2	1.97	0.46
1:E:300:VAL:CG1	1:F:430:THR:HG22	2.45	0.46
1:F:163:ASP:C	1:F:167:ASN:HB2	2.41	0.46
1:F:217:VAL:O	1:F:218:VAL:C	2.56	0.46
1:F:328:ILE:N	1:F:328:ILE:CD1	2.57	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:160:ALA:O	1:G:166:GLU:OE1	2.33	0.46
1:G:251:PHE:CZ	1:G:328:ILE:HG22	2.50	0.46
1:G:322:ILE:CG2	1:G:326:ARG:HH22	2.28	0.46
1:H:76:THR:OG1	1:H:93:ILE:N	2.47	0.46
1:H:252:LYS:O	1:H:253:ASN:HB2	2.14	0.46
1:I:97:TYR:C	1:I:98:ASN:O	2.55	0.46
1:J:91:ARG:HH21	1:J:93:ILE:HD11	1.80	0.46
1:J:288:VAL:HG11	1:J:345:LEU:HB3	1.98	0.46
1:J:307:CYS:O	1:J:388:LEU:CB	2.63	0.46
1:K:237:PHE:CG	1:K:238:GLY:N	2.83	0.46
1:L:91:ARG:O	1:L:91:ARG:CD	2.64	0.46
1:M:131:PRO:HG2	1:M:199:PHE:CE1	2.49	0.46
1:M:273:HIS:ND1	1:M:361:LYS:HA	2.30	0.46
1:M:368:ILE:O	1:M:368:ILE:HG22	2.15	0.46
1:M:378:GLU:O	1:M:382:GLU:N	2.48	0.46
1:N:186:SER:O	1:N:187:HIS:HB3	2.16	0.46
1:N:351:LEU:O	1:N:352:ALA:C	2.58	0.46
1:A:132:GLU:OE1	1:A:245:HIS:CB	2.63	0.46
1:A:239:VAL:HG13	2:P:757:TYR:CE2	2.51	0.46
1:B:127:PHE:CE1	1:B:274:PHE:CZ	3.03	0.46
1:C:141:ASP:OD1	1:C:141:ASP:N	2.43	0.46
1:C:274:PHE:CE2	1:C:278:ILE:HD11	2.50	0.46
1:C:318:PRO:HB2	1:C:320:ILE:O	2.15	0.46
1:C:342:ASN:O	1:C:343:PRO:C	2.56	0.46
1:D:9:ILE:O	1:D:10:GLU:C	2.58	0.46
1:D:24:GLN:CG	1:D:32:ILE:HD11	2.45	0.46
1:E:179:MET:HB3	1:E:179:MET:HE2	1.72	0.46
1:E:187:HIS:CE1	1:E:196:GLU:OE1	2.69	0.46
1:E:311:TRP:HE1	1:E:365:PRO:HD2	1.79	0.46
1:E:316:ARG:HH22	1:E:372:ILE:CD1	2.29	0.46
1:E:368:ILE:HG22	1:E:370:ARG:NH2	2.28	0.46
1:F:281:HIS:HD1	1:F:353:ALA:CB	2.28	0.46
1:G:55:SER:OG	1:G:65:GLU:HA	2.16	0.46
1:G:234:LYS:O	1:I:432:VAL:HG11	2.16	0.46
1:H:207:SER:O	1:H:210:ASP:N	2.49	0.46
1:H:345:LEU:HD21	1:H:413:LEU:HD13	1.97	0.46
1:J:149:GLU:O	1:J:150:LEU:O	2.34	0.46
1:J:289:THR:C	1:J:290:ASN:HD22	2.23	0.46
1:K:282:ALA:HB3	1:K:309:VAL:CG1	2.45	0.46
1:L:435:TRP:O	1:L:439:GLN:HG2	2.15	0.46
1:M:155:GLY:O	1:M:156:TYR:C	2.59	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Z:757:TYR:O	2:Z:760:ARG:OXT	2.32	0.46
1:A:370:ARG:NE	1:A:375:MET:HE3	2.31	0.46
1:B:18:VAL:HG22	1:B:79:ILE:CD1	2.46	0.46
1:B:234:LYS:O	1:B:234:LYS:HG3	2.16	0.46
1:B:322:ILE:HG22	1:B:322:ILE:O	2.16	0.46
1:C:83:THR:O	1:C:84:ALA:CB	2.62	0.46
1:C:162:THR:O	1:C:162:THR:HG22	2.15	0.46
1:C:209:ASP:C	1:C:211:ILE:H	2.22	0.46
1:D:55:SER:HB2	1:D:58:GLU:OE1	2.16	0.46
1:D:187:HIS:NE2	1:D:196:GLU:HB3	2.30	0.46
1:E:191:ALA:CB	1:E:239:VAL:HG22	2.46	0.46
1:F:82:TRP:CE3	1:F:220:THR:HG21	2.50	0.46
1:H:157:PHE:O	1:H:158:ASP:C	2.58	0.46
1:H:232:MET:HE2	1:H:294:ASN:ND2	2.31	0.46
1:H:255:VAL:HG12	1:H:256:ASN:N	2.27	0.46
1:I:258:PHE:HE1	1:I:332:VAL:CG2	2.27	0.46
1:I:300:VAL:HG22	1:I:301:PRO:HD2	1.98	0.46
1:I:354:GLY:O	1:I:357:GLY:N	2.47	0.46
1:J:170:ARG:O	1:J:174:LEU:HB2	2.16	0.46
1:J:172:ILE:HG21	1:J:197:ILE:CD1	2.45	0.46
1:K:194:GLN:O	1:K:195:HIS:ND1	2.48	0.46
1:L:57:ILE:O	1:L:57:ILE:HG22	2.15	0.46
1:M:16:GLU:HG3	1:M:16:GLU:O	2.14	0.46
1:M:293:VAL:HG11	1:M:428:PHE:CE2	2.51	0.46
1:M:316:ARG:HG2	2:U:747:MET:CG	2.46	0.46
1:M:381:MET:HE1	1:M:386:VAL:HA	1.95	0.46
1:N:45:ALA:HA	1:N:50:VAL:HG21	1.96	0.46
1:N:316:ARG:HH21	2:V:751:GLN:HG3	1.81	0.46
2:X:755:PHE:O	2:X:755:PHE:CD1	2.68	0.46
1:A:152:ASP:OD1	1:A:152:ASP:C	2.59	0.46
1:A:267:LEU:HD11	1:A:322:ILE:HD13	1.97	0.46
1:A:311:TRP:CZ3	1:A:322:ILE:HD12	2.51	0.46
1:B:317:SER:HB3	1:B:373:TYR:OH	2.15	0.46
1:B:360:ASN:O	1:B:362:LEU:HD12	2.16	0.46
1:B:418:ILE:HG23	1:B:422:GLU:CD	2.41	0.46
1:C:178:GLU:O	1:C:179:MET:HG3	2.16	0.46
1:C:313:ALA:O	1:C:314:GLN:HB2	2.13	0.46
1:C:366:ALA:O	1:C:367:PRO:C	2.54	0.46
1:D:173:VAL:HG11	1:D:186:SER:HB3	1.96	0.46
1:D:245:HIS:CD2	1:D:335:ARG:HB3	2.51	0.46
1:D:359:LYS:CB	1:D:359:LYS:HZ3	2.26	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:5:THR:N	1:E:8:ASP:HB2	2.29	0.46
1:E:21:ILE:HD11	1:E:39:VAL:HA	1.96	0.46
1:E:35:VAL:CG1	1:E:70:LEU:HD21	2.45	0.46
1:E:37:ILE:CD1	1:E:45:ALA:HB2	2.45	0.46
1:E:109:ARG:C	1:E:111:ASN:H	2.23	0.46
1:E:444:TYR:OXT	1:F:231:PHE:HB2	2.15	0.46
1:F:21:ILE:HD11	1:F:42:LEU:HD22	1.98	0.46
1:G:63:ILE:HG22	1:G:64:GLU:CD	2.41	0.46
1:G:368:ILE:CD1	1:G:385:ILE:HD11	2.46	0.46
1:H:422:GLU:O	1:H:425:TRP:HB3	2.16	0.46
1:J:98:ASN:N	1:J:102:THR:O	2.48	0.46
1:J:239:VAL:HG12	1:J:240:ASN:N	2.31	0.46
1:J:251:PHE:HE1	1:J:256:ASN:ND2	2.13	0.46
1:K:56:SER:HB3	1:N:156:TYR:HE2	1.76	0.46
1:K:232:MET:SD	1:K:235:PRO:HA	2.56	0.46
1:L:314:GLN:HE21	1:L:314:GLN:HB2	1.52	0.46
1:M:427:MET:HE1	2:T:759:ASN:HB2	1.87	0.46
1:N:136:PHE:HE2	1:N:194:GLN:HB2	1.78	0.46
1:N:171:ASP:HB3	1:N:225:HIS:CE1	2.48	0.46
1:N:274:PHE:O	1:N:278:ILE:CG1	2.60	0.46
1:N:345:LEU:O	1:N:349:VAL:HG22	2.16	0.46
1:N:375:MET:HG2	1:N:379:GLU:CD	2.40	0.46
2:U:747:MET:O	2:U:751:GLN:N	2.46	0.46
2:U:751:GLN:O	2:U:754:HIS:CB	2.62	0.46
2:Z:753:ALA:O	2:Z:757:TYR:HD1	1.94	0.46
1:A:80:PHE:HB3	1:A:82:TRP:CZ3	2.51	0.46
1:A:360:ASN:O	1:A:362:LEU:HD13	2.15	0.46
1:B:38:PRO:C	1:B:40:SER:N	2.73	0.46
1:B:249:SER:HA	1:B:258:PHE:CE1	2.50	0.46
1:B:300:VAL:CG1	1:B:301:PRO:HD2	2.35	0.46
1:C:380:ARG:C	1:C:382:GLU:N	2.72	0.46
1:C:443:GLN:OE1	1:C:444:TYR:CE2	2.68	0.46
1:D:89:VAL:HG21	1:H:170:ARG:NH2	2.29	0.46
1:D:223:ARG:O	1:D:224:LYS:C	2.58	0.46
1:F:109:ARG:HG2	1:F:110:ASN:N	2.30	0.46
1:F:127:PHE:HE1	1:F:248:LEU:HB3	1.80	0.46
1:F:351:LEU:O	1:F:351:LEU:HG	2.15	0.46
1:G:132:GLU:OE2	1:G:245:HIS:CD2	2.68	0.46
1:H:209:ASP:C	1:H:211:ILE:N	2.70	0.46
1:H:393:ALA:O	1:H:394:GLU:C	2.58	0.46
1:I:55:SER:O	1:I:57:ILE:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:393:ALA:O	1:I:394:GLU:C	2.56	0.46
1:I:404:VAL:HA	1:I:407:LYS:HB2	1.97	0.46
1:I:407:LYS:O	1:I:408:ALA:C	2.59	0.46
1:I:418:ILE:HD12	1:I:418:ILE:N	2.31	0.46
1:J:413:LEU:O	1:J:414:PHE:C	2.58	0.46
1:K:168:CYS:O	1:K:172:ILE:CD1	2.63	0.46
1:K:183:ILE:HG23	1:K:183:ILE:O	2.15	0.46
1:L:78:VAL:O	1:L:90:ALA:HA	2.15	0.46
1:L:233:PRO:HB2	1:L:294:ASN:OD1	2.16	0.46
1:L:286:THR:HG21	1:L:389:PRO:HD2	1.97	0.46
1:M:172:ILE:O	1:M:176:LEU:HG	2.15	0.46
1:M:238:GLY:C	1:M:239:VAL:HG23	2.40	0.46
1:A:316:ARG:HD3	2:P:747:MET:SD	2.56	0.46
1:B:167:ASN:HA	1:B:170:ARG:HD2	1.97	0.46
1:B:244:MET:HB2	1:B:339:PRO:CD	2.46	0.46
1:C:100:ASP:OD2	1:C:100:ASP:N	2.48	0.46
1:C:141:ASP:OD1	1:C:145:GLU:O	2.34	0.46
1:C:165:GLY:O	1:C:166:GLU:C	2.59	0.46
1:D:237:PHE:C	1:D:239:VAL:N	2.69	0.46
1:E:57:ILE:C	1:E:59:GLY:H	2.24	0.46
1:E:323:PRO:HD2	1:E:331:ARG:HG2	1.98	0.46
1:F:120:GLU:O	1:F:123:GLY:N	2.49	0.46
1:F:434:PRO:O	1:F:435:TRP:C	2.59	0.46
1:G:10:GLU:O	1:G:11:LYS:C	2.59	0.46
1:G:138:PHE:O	1:G:227:LEU:HB3	2.16	0.46
1:G:304:GLU:HG2	1:G:335:ARG:HH12	1.80	0.46
1:G:439:GLN:OE1	2:S:759:ASN:HA	2.15	0.46
1:H:63:ILE:HD12	2:2:747:MET:CE	2.40	0.46
1:H:119:MET:HB2	1:H:355:LEU:HD11	1.98	0.46
1:H:240:ASN:HA	1:H:303:TYR:HD1	1.80	0.46
1:H:434:PRO:HG3	1:N:434:PRO:HG2	1.97	0.46
1:I:33:LYS:HB3	1:L:157:PHE:HB3	1.98	0.46
1:I:393:ALA:C	1:I:395:ALA:H	2.23	0.46
1:J:28:ILE:HD11	1:J:345:LEU:HD11	1.98	0.46
1:J:34:ASN:C	1:J:34:ASN:ND2	2.73	0.46
1:J:84:ALA:HB2	1:J:88:LYS:CE	2.45	0.46
1:J:323:PRO:HB2	1:J:331:ARG:HD3	1.98	0.46
1:K:91:ARG:HD3	1:K:92:PHE:N	2.31	0.46
1:K:405:MET:O	1:K:408:ALA:HB3	2.15	0.46
1:L:140:LEU:HD12	1:L:226:GLY:O	2.16	0.46
1:M:377:LYS:HA	1:M:380:ARG:NE	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:34:ASN:C	1:N:34:ASN:HD22	2.22	0.46
1:N:159:LEU:O	1:N:159:LEU:HD23	2.15	0.46
1:N:277:GLY:HA3	1:N:353:ALA:O	2.16	0.46
2:W:751:GLN:O	2:W:755:PHE:CD2	2.62	0.46
1:A:293:VAL:HG11	1:A:428:PHE:CD2	2.50	0.46
1:B:46:LEU:C	1:B:48:ASN:N	2.73	0.46
1:B:128:ASN:O	1:B:248:LEU:HA	2.16	0.46
1:B:399:PHE:HD2	1:B:418:ILE:HD11	1.80	0.46
1:C:342:ASN:O	1:C:344:TYR:N	2.48	0.46
1:D:56:SER:HB2	1:H:156:TYR:HE2	1.77	0.46
1:D:78:VAL:HG23	1:D:91:ARG:NH1	2.31	0.46
1:D:134:GLU:HG3	1:D:196:GLU:HG3	1.97	0.46
1:D:169:ARG:CG	1:D:169:ARG:NH2	2.74	0.46
1:D:187:HIS:N	1:D:187:HIS:CD2	2.84	0.46
1:D:304:GLU:O	1:D:317:SER:CB	2.53	0.46
1:E:24:GLN:HB3	1:E:32:ILE:HD11	1.97	0.46
1:E:316:ARG:CD	1:E:371:ASN:ND2	2.79	0.46
1:F:139:LYS:HD2	1:F:150:LEU:O	2.16	0.46
1:F:268:SER:C	1:F:270:THR:H	2.22	0.46
1:F:355:LEU:N	1:F:355:LEU:CD2	2.78	0.46
1:F:375:MET:HE2	1:F:379:GLU:HG2	1.98	0.46
1:G:21:ILE:HD13	1:G:42:LEU:HD13	1.96	0.46
1:G:91:ARG:CD	1:G:92:PHE:N	2.79	0.46
1:H:163:ASP:O	1:H:167:ASN:HB2	2.16	0.46
1:H:434:PRO:HG2	1:N:434:PRO:HG2	1.98	0.46
1:I:55:SER:O	1:I:56:SER:C	2.59	0.46
1:I:63:ILE:N	1:I:63:ILE:HD12	2.31	0.46
1:J:46:LEU:C	1:J:48:ASN:H	2.24	0.46
1:J:178:GLU:O	1:J:179:MET:HG3	2.16	0.46
1:K:72:PRO:HB2	1:K:92:PHE:HD2	1.81	0.46
1:K:353:ALA:HB2	1:K:405:MET:HE3	1.98	0.46
1:L:48:ASN:HB3	1:L:71:TYR:CE1	2.51	0.46
1:L:240:ASN:ND2	3:L:501:GLN:N	2.63	0.46
1:N:106:GLY:HA2	1:N:413:LEU:HG	1.97	0.46
1:N:161:PRO:C	1:N:162:THR:O	2.57	0.46
1:N:248:LEU:O	1:N:331:ARG:HB2	2.16	0.46
1:N:405:MET:HE3	1:N:405:MET:HA	1.97	0.46
2:U:756:ARG:O	2:U:760:ARG:HB2	2.16	0.46
1:A:429:ARG:O	1:C:297:LYS:CD	2.64	0.46
1:B:239:VAL:HA	2:Z:757:TYR:OH	2.16	0.46
1:C:109:ARG:O	1:C:112:LEU:CB	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:185:ALA:HB2	1:E:37:ILE:HG22	1.98	0.46
1:C:349:VAL:CG1	1:C:409:LEU:HD11	2.46	0.46
1:C:434:PRO:O	1:C:435:TRP:C	2.58	0.46
1:D:134:GLU:HG2	1:D:189:GLU:HG3	1.98	0.46
1:E:4:TYR:CE2	1:E:12:LEU:HD11	2.51	0.46
1:E:21:ILE:CD1	1:E:42:LEU:HB2	2.46	0.46
1:E:96:ILE:C	1:E:97:TYR:HD1	2.23	0.46
1:F:116:LEU:O	1:F:117:LYS:C	2.59	0.46
1:F:194:GLN:NE2	1:F:241:GLY:O	2.45	0.46
1:F:381:MET:HA	1:F:381:MET:HE3	1.98	0.46
1:G:12:LEU:O	1:G:16:GLU:HB2	2.16	0.46
1:G:169:ARG:HH21	1:G:188:HIS:HB2	1.80	0.46
1:G:276:ALA:CB	1:G:364:ALA:CA	2.94	0.46
1:H:404:VAL:O	1:H:404:VAL:HG22	2.16	0.46
1:I:377:LYS:O	1:I:380:ARG:HG2	2.16	0.46
1:J:34:ASN:ND2	1:J:36:GLU:OE1	2.46	0.46
1:K:244:MET:H	1:K:339:PRO:HD3	1.81	0.46
1:L:141:ASP:O	1:L:144:GLY:N	2.49	0.46
1:L:159:LEU:O	1:L:161:PRO:CD	2.63	0.46
1:L:246:CYS:SG	1:L:337:VAL:HG21	2.55	0.46
1:L:256:ASN:C	1:L:256:ASN:OD1	2.58	0.46
1:M:97:TYR:CE2	1:M:103:PRO:HD3	2.47	0.46
1:M:138:PHE:O	1:M:139:LYS:C	2.56	0.46
1:M:250:LEU:O	1:M:251:PHE:HD1	1.98	0.46
1:M:285:PHE:CD1	1:M:285:PHE:C	2.94	0.46
1:M:375:MET:O	1:M:376:SER:HB2	2.14	0.46
1:N:272:LYS:HZ1	1:N:311:TRP:HH2	1.58	0.46
1:N:327:GLY:O	1:N:328:ILE:C	2.59	0.46
1:N:338:ASP:OD2	1:N:338:ASP:O	2.33	0.46
1:N:379:GLU:HA	1:N:382:GLU:CD	2.41	0.46
1:N:429:ARG:HG2	1:N:430:THR:CG2	2.38	0.46
2:U:751:GLN:CB	2:U:755:PHE:HE1	2.29	0.46
1:B:366:ALA:HA	1:B:367:PRO:HD2	1.78	0.45
1:B:378:GLU:O	1:B:381:MET:HB2	2.16	0.45
1:B:418:ILE:CG2	1:B:422:GLU:OE1	2.64	0.45
1:C:406:VAL:CG2	1:C:407:LYS:N	2.79	0.45
1:D:50:VAL:O	1:D:69:TYR:HD2	1.99	0.45
1:E:5:THR:HG22	1:E:8:ASP:CB	2.46	0.45
1:E:26:THR:CG2	1:E:30:GLY:O	2.59	0.45
1:E:375:MET:CB	1:E:379:GLU:CD	2.89	0.45
1:F:316:ARG:HG3	2:O:747:MET:HE1	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:129:LEU:N	1:G:202:ALA:O	2.41	0.45
1:G:252:LYS:C	1:G:254:GLY:H	2.23	0.45
1:G:369:ASP:O	1:G:372:ILE:HD11	2.16	0.45
1:G:379:GLU:O	1:G:382:GLU:HG3	2.15	0.45
1:H:53:ASP:OD2	1:H:55:SER:HB2	2.17	0.45
1:H:111:ASN:HD21	1:H:409:LEU:HA	1.82	0.45
1:H:183:ILE:CD1	1:H:183:ILE:H	2.06	0.45
1:H:332:VAL:HG23	1:H:332:VAL:O	2.16	0.45
1:H:418:ILE:O	1:H:422:GLU:HG3	2.16	0.45
1:I:52:PHE:CZ	1:I:96:ILE:HD12	2.50	0.45
1:I:98:ASN:N	1:I:102:THR:O	2.48	0.45
1:I:440:TYR:O	1:I:444:TYR:HB2	2.16	0.45
1:J:48:ASN:OD1	1:J:71:TYR:CB	2.64	0.45
1:K:21:ILE:HB	1:K:37:ILE:HG13	1.96	0.45
1:K:337:VAL:HG12	1:K:338:ASP:N	2.31	0.45
1:L:156:TYR:N	1:L:189:GLU:O	2.48	0.45
1:L:190:VAL:HG21	1:L:240:ASN:ND2	2.31	0.45
1:L:208:CYS:SG	1:L:343:PRO:CB	3.04	0.45
1:M:62:ARG:CB	2:T:754:HIS:HE1	2.29	0.45
1:N:5:THR:O	1:N:8:ASP:HB2	2.15	0.45
1:C:78:VAL:CG2	1:C:91:ARG:HH12	2.30	0.45
1:C:135:PHE:N	1:C:195:HIS:O	2.49	0.45
1:C:321:ARG:O	1:C:333:GLU:HB3	2.16	0.45
1:D:35:VAL:CG2	1:H:185:ALA:HB1	2.46	0.45
1:D:72:PRO:HA	1:D:94:CYS:SG	2.56	0.45
1:D:252:LYS:O	1:D:253:ASN:ND2	2.48	0.45
1:D:308:TYR:CE1	1:D:373:TYR:HD1	2.34	0.45
1:E:140:LEU:HD11	1:E:227:LEU:O	2.15	0.45
1:E:250:LEU:HD11	1:E:274:PHE:HE1	1.81	0.45
1:F:380:ARG:HH21	2:O:746:LYS:NZ	2.15	0.45
1:G:152:ASP:OD2	1:G:161:PRO:CB	2.64	0.45
1:G:156:TYR:CD2	1:M:56:SER:HB3	2.52	0.45
1:G:320:ILE:CG2	1:G:321:ARG:H	2.16	0.45
1:H:9:ILE:HG13	1:H:74:LEU:HD11	1.98	0.45
1:H:37:ILE:O	1:H:37:ILE:HG13	2.15	0.45
1:I:219:LYS:CG	1:I:229:ALA:HB3	2.47	0.45
1:I:233:PRO:HG2	1:I:295:SER:HG	1.80	0.45
1:I:251:PHE:CB	1:I:255:VAL:O	2.65	0.45
1:I:302:GLY:H	1:I:316:ARG:HH22	1.64	0.45
1:J:52:PHE:CE2	1:J:54:GLY:HA2	2.50	0.45
1:J:60:PHE:CD2	2:U:758:LYS:HE2	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:373:TYR:HD2	2:2:746:LYS:C	2.24	0.45
1:K:139:LYS:HA	1:K:227:LEU:HD23	1.99	0.45
1:L:64:GLU:O	1:L:65:GLU:C	2.59	0.45
1:L:72:PRO:CB	1:L:92:PHE:HB3	2.46	0.45
1:L:80:PHE:CD2	1:L:82:TRP:CH2	3.03	0.45
1:M:216:LEU:HD12	1:M:216:LEU:HA	1.67	0.45
1:M:316:ARG:HG3	1:M:373:TYR:HE1	1.81	0.45
1:N:132:GLU:OE2	1:N:245:HIS:HB2	2.16	0.45
1:N:171:ASP:CB	1:N:225:HIS:CE1	2.98	0.45
1:N:245:HIS:CG	1:N:335:ARG:HG2	2.51	0.45
2:V:750:GLY:C	2:V:752:ASN:H	2.23	0.45
1:A:231:PHE:HB2	1:C:444:TYR:OXT	2.15	0.45
1:A:399:PHE:HD2	1:A:418:ILE:HD11	1.80	0.45
1:B:71:TYR:O	1:B:95:ASP:N	2.49	0.45
1:B:172:ILE:HD11	1:B:218:VAL:HA	1.97	0.45
1:B:397:GLU:OE1	1:B:397:GLU:CA	2.64	0.45
1:B:397:GLU:O	1:B:401:SER:HB3	2.17	0.45
1:C:309:VAL:O	1:C:309:VAL:HG12	2.16	0.45
1:D:237:PHE:CD1	1:D:238:GLY:N	2.84	0.45
1:E:309:VAL:O	1:E:310:ALA:HB2	2.16	0.45
1:E:316:ARG:HH22	1:E:372:ILE:CG1	2.28	0.45
1:F:410:GLY:C	1:F:412:HIS:N	2.72	0.45
1:G:152:ASP:HB3	1:G:162:THR:HB	1.98	0.45
1:G:262:ASN:OD1	1:G:262:ASN:N	2.49	0.45
1:I:183:ILE:HD12	1:I:183:ILE:N	2.32	0.45
1:I:221:ILE:CG2	1:I:221:ILE:O	2.64	0.45
1:J:203:GLY:O	1:J:204:ALA:C	2.58	0.45
1:J:420:ALA:O	1:J:423:ILE:HB	2.17	0.45
1:K:370:ARG:C	1:K:371:ASN:OD1	2.59	0.45
1:L:113:LYS:O	1:L:117:LYS:CG	2.62	0.45
1:M:60:PHE:CD1	2:T:755:PHE:HE2	2.35	0.45
1:M:169:ARG:O	1:M:169:ARG:HG2	2.16	0.45
1:N:55:SER:OG	1:N:62:ARG:HB2	2.16	0.45
1:N:80:PHE:HD1	1:N:89:VAL:CG1	2.30	0.45
2:U:751:GLN:O	2:U:755:PHE:HD1	1.99	0.45
1:A:96:ILE:CD1	1:A:107:ASP:HB2	2.40	0.45
1:A:112:LEU:HD22	1:A:116:LEU:CD1	2.45	0.45
1:A:275:ILE:HD13	1:A:322:ILE:HD11	1.98	0.45
1:A:316:ARG:CD	2:P:747:MET:CG	2.86	0.45
1:C:373:TYR:CD1	1:C:373:TYR:N	2.83	0.45
1:D:244:MET:HB2	1:D:339:PRO:CD	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:54:GLY:C	1:E:56:SER:N	2.74	0.45
1:F:316:ARG:HH12	1:F:371:ASN:HA	1.81	0.45
1:G:58:GLU:OE2	1:G:412:HIS:CE1	2.69	0.45
1:G:58:GLU:OE2	1:G:412:HIS:NE2	2.49	0.45
1:G:252:LYS:O	1:G:252:LYS:CG	2.63	0.45
1:G:312:SER:OG	1:G:368:ILE:HG22	2.16	0.45
1:H:141:ASP:CG	1:H:142:GLU:OE2	2.60	0.45
1:I:82:TRP:HE1	1:I:221:ILE:CD1	2.30	0.45
1:J:274:PHE:CZ	1:J:354:GLY:HA3	2.51	0.45
1:J:379:GLU:O	1:J:382:GLU:CG	2.65	0.45
1:J:385:ILE:O	1:J:385:ILE:HG22	2.16	0.45
1:K:183:ILE:HG23	1:L:38:PRO:HG3	1.97	0.45
1:K:313:ALA:O	1:K:314:GLN:CB	2.65	0.45
1:L:372:ILE:CD1	1:L:372:ILE:N	2.74	0.45
1:M:9:ILE:HD13	1:M:74:LEU:HD12	1.95	0.45
1:N:156:TYR:CE2	1:N:157:PHE:CD1	3.05	0.45
2:O:747:MET:O	2:O:751:GLN:HB2	2.16	0.45
2:V:746:LYS:HA	2:V:749:GLU:HB2	1.98	0.45
2:Y:753:ALA:O	2:Y:757:TYR:CD1	2.70	0.45
1:A:97:TYR:O	1:A:98:ASN:C	2.60	0.45
1:A:258:PHE:CE1	1:A:332:VAL:HG23	2.50	0.45
1:A:375:MET:HA	1:A:379:GLU:OE1	2.17	0.45
1:B:141:ASP:OD2	1:B:141:ASP:C	2.59	0.45
1:B:321:ARG:NH1	1:B:323:PRO:HG3	2.31	0.45
1:B:358:ILE:HG22	1:B:358:ILE:O	2.16	0.45
1:D:38:PRO:CG	1:H:183:ILE:HD13	2.28	0.45
1:E:32:ILE:C	1:E:32:ILE:CD1	2.89	0.45
1:E:70:LEU:O	1:E:72:PRO:HD3	2.17	0.45
1:E:110:ASN:HA	1:E:113:LYS:HD2	1.98	0.45
1:E:173:VAL:O	1:E:173:VAL:CG1	2.64	0.45
1:F:124:PHE:HA	1:F:251:PHE:O	2.16	0.45
1:F:342:ASN:OD1	1:F:344:TYR:HB2	2.17	0.45
1:H:29:LEU:HD23	1:H:421:LYS:HE2	1.96	0.45
1:H:63:ILE:C	1:H:64:GLU:HG3	2.42	0.45
1:H:162:THR:O	1:H:162:THR:HG22	2.14	0.45
1:H:288:VAL:O	1:H:288:VAL:HG12	2.15	0.45
1:H:365:PRO:O	1:H:367:PRO:HD3	2.16	0.45
1:I:16:GLU:HG3	1:I:16:GLU:O	2.16	0.45
1:J:294:ASN:HA	1:J:297:LYS:HG2	1.98	0.45
1:K:34:ASN:O	1:N:157:PHE:HD2	1.98	0.45
1:K:162:THR:C	1:K:164:LEU:N	2.74	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:19:LYS:HA	1:L:39:VAL:HG11	1.99	0.45
1:L:72:PRO:HB2	1:L:92:PHE:HB3	1.98	0.45
1:M:197:ILE:HD12	1:M:197:ILE:N	2.31	0.45
1:M:252:LYS:O	1:M:252:LYS:HG3	2.17	0.45
1:N:91:ARG:C	1:N:92:PHE:CD1	2.94	0.45
1:A:116:LEU:CD2	1:A:351:LEU:CD2	2.94	0.45
1:A:295:SER:O	1:A:298:ARG:HB3	2.17	0.45
1:B:116:LEU:O	1:B:119:MET:HB3	2.17	0.45
1:B:392:LEU:O	1:B:392:LEU:HG	2.16	0.45
1:D:208:CYS:SG	1:D:343:PRO:O	2.73	0.45
1:E:48:ASN:OD1	1:E:72:PRO:HD2	2.16	0.45
1:E:112:LEU:CD1	1:E:204:ALA:HB1	2.45	0.45
1:E:303:TYR:CD1	2:W:753:ALA:CB	2.99	0.45
1:G:114:ARG:HH12	1:G:115:ILE:CD1	2.29	0.45
1:G:194:GLN:NE2	1:G:241:GLY:C	2.74	0.45
1:G:258:PHE:HA	1:G:268:SER:HG	1.79	0.45
1:H:70:LEU:O	1:H:72:PRO:HD3	2.17	0.45
1:H:217:VAL:O	1:H:218:VAL:C	2.58	0.45
1:H:271:ALA:O	1:H:275:ILE:HG12	2.17	0.45
1:K:91:ARG:NH2	1:K:213:THR:OG1	2.49	0.45
1:K:300:VAL:CG1	1:K:301:PRO:HD2	2.47	0.45
1:K:389:PRO:HB3	1:K:395:ALA:N	2.31	0.45
1:L:183:ILE:N	1:L:183:ILE:CD1	2.76	0.45
1:L:323:PRO:HD2	1:L:331:ARG:O	2.17	0.45
1:M:26:THR:HG21	1:M:212:GLN:HE22	1.80	0.45
1:M:344:TYR:C	1:M:346:ALA:N	2.72	0.45
1:C:113:LYS:O	1:C:116:LEU:N	2.46	0.45
1:D:107:ASP:CB	1:D:110:ASN:HB2	2.33	0.45
1:D:383:ASN:C	1:D:385:ILE:N	2.73	0.45
1:E:20:TYR:OH	1:E:36:GLU:OE2	2.25	0.45
1:G:240:ASN:OD1	2:T:757:TYR:OH	2.26	0.45
1:H:127:PHE:CD2	1:H:351:LEU:HB2	2.45	0.45
1:H:129:LEU:O	1:H:201:TYR:HA	2.17	0.45
1:H:293:VAL:CG1	1:H:428:PHE:CE2	2.99	0.45
1:I:91:ARG:HG3	1:I:91:ARG:NH1	2.30	0.45
1:I:159:LEU:C	1:I:160:ALA:O	2.56	0.45
1:I:217:VAL:O	1:I:217:VAL:HG12	2.15	0.45
1:I:427:MET:HE3	1:I:427:MET:HB3	1.62	0.45
1:J:4:TYR:HE2	1:J:12:LEU:CD1	2.30	0.45
1:J:83:THR:O	1:J:84:ALA:C	2.59	0.45
1:J:330:THR:HG22	1:J:331:ARG:N	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:104:PHE:C	1:K:106:GLY:H	2.25	0.45
1:K:244:MET:N	1:K:339:PRO:HD3	2.32	0.45
1:K:302:GLY:N	2:1:746:LYS:O	2.49	0.45
1:K:303:TYR:HE1	2:1:753:ALA:CB	2.29	0.45
1:K:314:GLN:O	1:K:314:GLN:HG2	2.16	0.45
1:L:172:ILE:HG21	1:L:197:ILE:HD13	1.99	0.45
1:M:52:PHE:N	1:M:68:MET:O	2.50	0.45
2:T:746:LYS:O	2:T:749:GLU:N	2.45	0.45
1:A:252:LYS:O	1:A:253:ASN:HB2	2.17	0.45
1:B:293:VAL:HG11	1:B:428:PHE:CD2	2.51	0.45
1:C:316:ARG:NE	2:R:747:MET:HG2	2.31	0.45
1:D:300:VAL:HG13	1:D:301:PRO:HD2	1.96	0.45
1:D:396:LEU:HD13	1:D:422:GLU:HG3	1.99	0.45
1:D:406:VAL:HA	1:D:414:PHE:HD1	1.80	0.45
1:E:30:GLY:HA2	1:E:342:ASN:ND2	2.32	0.45
1:E:362:LEU:HD12	1:E:362:LEU:H	1.82	0.45
1:E:375:MET:O	1:E:376:SER:O	2.35	0.45
1:F:96:ILE:HG22	1:F:104:PHE:HB3	1.96	0.45
1:F:214:PHE:CZ	1:F:218:VAL:HG21	2.52	0.45
1:F:356:ASP:OD2	1:F:356:ASP:C	2.60	0.45
1:G:194:GLN:HE21	1:G:242:SER:HA	1.82	0.45
1:G:421:LYS:O	1:G:424:GLU:N	2.49	0.45
1:H:129:LEU:O	1:H:201:TYR:HB2	2.16	0.45
1:H:251:PHE:CG	1:H:255:VAL:O	2.70	0.45
1:H:294:ASN:ND2	1:N:432:VAL:HG13	2.31	0.45
1:H:437:ARG:O	1:H:441:MET:CB	2.65	0.45
1:I:284:SER:O	1:I:399:PHE:HB2	2.16	0.45
1:J:275:ILE:HD11	1:J:332:VAL:CG1	2.46	0.45
1:K:68:MET:HG3	1:K:99:PRO:HD3	1.99	0.45
1:K:162:THR:O	1:K:166:GLU:HB3	2.17	0.45
1:L:342:ASN:HB3	1:L:345:LEU:HB2	1.99	0.45
1:M:7:GLU:CG	1:M:8:ASP:N	2.78	0.45
1:N:38:PRO:C	1:N:40:SER:H	2.25	0.45
1:N:39:VAL:C	1:N:41:GLN:H	2.24	0.45
1:N:310:ALA:HB1	1:N:368:ILE:CD1	2.47	0.45
2:V:750:GLY:C	2:V:752:ASN:N	2.75	0.45
2:X:746:LYS:O	2:X:747:MET:C	2.58	0.45
1:A:280:LYS:HD3	1:A:281:HIS:CE1	2.52	0.45
1:A:317:SER:HA	1:A:335:ARG:HH22	1.82	0.45
1:A:416:HIS:HA	1:A:419:GLU:HB3	1.99	0.45
1:B:67:ASP:O	1:B:68:MET:HG2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:304:GLU:OE2	3:B:501:GLN:CG	2.48	0.45
1:B:322:ILE:HD11	1:B:332:VAL:CG1	2.36	0.45
1:C:42:LEU:HA	1:C:45:ALA:CB	2.47	0.45
1:D:93:ILE:HD13	1:D:209:ASP:OD2	2.17	0.45
1:E:362:LEU:CD1	1:E:362:LEU:H	2.30	0.45
1:E:418:ILE:N	1:E:418:ILE:CD1	2.80	0.45
1:F:271:ALA:O	1:F:275:ILE:CG1	2.65	0.45
1:G:84:ALA:HB2	1:G:88:LYS:CG	2.47	0.45
1:G:169:ARG:NE	1:G:195:HIS:ND1	2.65	0.45
1:G:214:PHE:CE1	1:G:218:VAL:HG21	2.52	0.45
1:G:269:GLU:O	1:G:270:THR:C	2.59	0.45
1:H:172:ILE:HD13	1:H:218:VAL:HG22	1.99	0.45
1:H:208:CYS:SG	1:H:347:LEU:CD2	3.05	0.45
1:H:392:LEU:O	1:H:392:LEU:HG	2.16	0.45
1:H:418:ILE:HG22	1:H:422:GLU:OE1	2.17	0.45
1:I:22:ARG:HG2	1:I:22:ARG:NH1	2.31	0.45
1:I:83:THR:HG21	1:I:89:VAL:HB	1.98	0.45
1:I:405:MET:O	1:I:407:LYS:N	2.50	0.45
1:I:418:ILE:O	1:I:422:GLU:CD	2.60	0.45
1:J:38:PRO:O	1:J:40:SER:N	2.49	0.45
1:J:284:SER:OG	1:J:402:ASN:HB2	2.17	0.45
1:K:39:VAL:O	1:K:39:VAL:CG2	2.65	0.45
1:L:288:VAL:CG1	1:L:345:LEU:O	2.61	0.45
1:N:97:TYR:O	1:N:98:ASN:O	2.35	0.45
1:N:102:THR:C	1:N:103:PRO:O	2.58	0.45
1:N:302:GLY:C	2:V:750:GLY:HA2	2.41	0.45
2:O:753:ALA:CA	2:O:756:ARG:HG2	2.45	0.45
1:A:135:PHE:HB3	1:A:231:PHE:CD1	2.51	0.45
1:A:142:GLU:C	1:A:144:GLY:N	2.71	0.45
1:A:187:HIS:HE1	1:A:189:GLU:OE2	2.00	0.45
1:B:404:VAL:HG22	1:B:405:MET:HE2	1.98	0.45
1:C:252:LYS:O	1:C:253:ASN:HB2	2.16	0.45
1:D:26:THR:HG23	1:D:31:THR:O	2.16	0.45
1:D:237:PHE:O	1:D:239:VAL:N	2.43	0.45
1:E:76:THR:O	1:E:91:ARG:NH1	2.50	0.45
1:E:162:THR:O	1:E:166:GLU:N	2.49	0.45
1:E:333:GLU:HG2	1:E:335:ARG:CG	2.44	0.45
1:F:129:LEU:CD1	1:F:347:LEU:HD21	2.46	0.45
1:G:24:GLN:HG2	1:G:93:ILE:HD13	1.99	0.45
1:G:61:VAL:HG11	1:G:420:ALA:HB2	1.99	0.45
1:G:174:LEU:HB3	1:M:86:LYS:HD2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:388:LEU:C	1:G:389:PRO:O	2.60	0.45
1:H:396:LEU:HD22	1:H:418:ILE:HG23	1.99	0.45
1:I:57:ILE:HD11	1:I:96:ILE:HG13	1.98	0.45
1:J:16:GLU:OE1	1:J:16:GLU:HA	2.15	0.45
1:J:183:ILE:HA	1:J:199:PHE:HA	1.99	0.45
1:J:292:THR:CG2	1:K:444:TYR:HE1	2.29	0.45
1:J:300:VAL:CG1	1:J:301:PRO:HD2	2.47	0.45
1:K:253:ASN:O	1:K:255:VAL:CG2	2.65	0.45
1:L:20:TYR:CZ	1:L:36:GLU:HB2	2.52	0.45
1:L:52:PHE:CE1	1:L:70:LEU:CD1	2.96	0.45
1:L:331:ARG:NH2	1:L:331:ARG:CG	2.76	0.45
1:L:383:ASN:HD22	1:L:383:ASN:H	1.65	0.45
1:N:46:LEU:C	1:N:48:ASN:H	2.25	0.45
1:N:150:LEU:HD22	1:N:193:GLY:HA3	1.99	0.45
2:Y:748:LEU:O	2:Y:748:LEU:HD22	2.16	0.45
1:A:105:GLU:CD	1:A:412:HIS:HB2	2.42	0.44
1:A:161:PRO:CB	1:A:166:GLU:OE1	2.64	0.44
1:A:258:PHE:HA	1:A:271:ALA:HB2	1.99	0.44
1:B:241:GLY:HA3	1:B:298:ARG:HG3	1.98	0.44
1:D:52:PHE:CD2	1:D:53:ASP:N	2.85	0.44
1:D:310:ALA:HB1	1:D:368:ILE:HG12	1.98	0.44
1:D:419:GLU:O	1:D:420:ALA:C	2.60	0.44
1:E:287:ALA:HB1	1:E:396:LEU:HD23	1.98	0.44
1:F:62:ARG:HG3	2:X:754:HIS:HE1	1.81	0.44
1:F:169:ARG:HD3	1:F:187:HIS:O	2.18	0.44
1:F:396:LEU:O	1:F:400:LYS:HG3	2.17	0.44
1:G:10:GLU:O	1:G:13:VAL:HB	2.17	0.44
1:H:68:MET:HE2	1:H:99:PRO:HD3	1.99	0.44
1:H:153:LYS:HB2	1:H:153:LYS:HE3	1.65	0.44
1:I:381:MET:C	1:I:383:ASN:H	2.24	0.44
1:J:98:ASN:HB2	1:J:102:THR:CG2	2.47	0.44
1:J:370:ARG:NE	1:J:370:ARG:HA	2.30	0.44
1:L:358:ILE:H	1:L:358:ILE:HG12	1.38	0.44
1:M:52:PHE:CE1	1:M:70:LEU:CD1	2.91	0.44
1:M:173:VAL:HG12	1:M:174:LEU:N	2.32	0.44
1:M:256:ASN:HD22	1:M:328:ILE:CA	2.29	0.44
1:N:78:VAL:CG2	1:N:91:ARG:HH12	2.29	0.44
1:N:221:ILE:HD13	1:N:221:ILE:HA	1.84	0.44
1:A:132:GLU:OE1	1:A:245:HIS:HB2	2.16	0.44
1:A:137:LEU:HD13	1:A:227:LEU:HD12	1.99	0.44
1:B:76:THR:O	1:B:91:ARG:NH1	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:169:ARG:HH22	1:B:188:HIS:HB2	1.82	0.44
1:B:250:LEU:C	1:B:251:PHE:CD1	2.95	0.44
1:C:267:LEU:HD22	1:C:271:ALA:CB	2.47	0.44
1:C:305:ALA:HA	1:C:306:PRO:HD3	1.78	0.44
1:D:181:PHE:CD2	1:D:183:ILE:HD11	2.53	0.44
1:D:405:MET:CA	1:D:408:ALA:HB3	2.47	0.44
1:D:412:HIS:C	1:D:414:PHE:N	2.72	0.44
1:D:437:ARG:O	1:D:438:GLU:C	2.60	0.44
1:E:109:ARG:HG2	1:E:110:ASN:N	2.32	0.44
1:G:142:GLU:N	1:G:142:GLU:OE1	2.50	0.44
1:G:335:ARG:NH2	1:G:335:ARG:HB3	2.31	0.44
1:H:111:ASN:O	1:H:115:ILE:HD13	2.17	0.44
1:H:114:ARG:CD	1:H:115:ILE:HD12	2.47	0.44
1:H:163:ASP:O	1:H:167:ASN:CB	2.66	0.44
1:H:302:GLY:CA	2:Y:750:GLY:HA2	2.47	0.44
1:I:271:ALA:O	1:I:275:ILE:HG13	2.17	0.44
1:I:319:LEU:HD23	1:I:319:LEU:O	2.17	0.44
1:J:6:ARG:CZ	1:J:46:LEU:HB3	2.47	0.44
1:J:378:GLU:CD	1:J:378:GLU:N	2.75	0.44
1:K:159:LEU:O	1:K:159:LEU:HD13	2.17	0.44
1:K:214:PHE:CE1	1:K:218:VAL:HG21	2.52	0.44
1:K:308:TYR:CE2	1:K:380:ARG:CZ	3.00	0.44
1:K:429:ARG:HG2	1:K:430:THR:HG23	1.98	0.44
1:L:3:LYS:O	1:L:3:LYS:HD3	2.18	0.44
1:L:98:ASN:ND2	1:L:99:PRO:HD3	2.24	0.44
1:M:319:LEU:C	1:M:320:ILE:HD12	2.41	0.44
1:M:375:MET:C	1:M:379:GLU:OE1	2.61	0.44
1:N:63:ILE:O	1:N:63:ILE:CG2	2.64	0.44
1:N:112:LEU:HD12	1:N:344:TYR:HD2	1.82	0.44
1:N:133:PRO:HG3	1:N:199:PHE:CE2	2.52	0.44
1:N:375:MET:SD	1:N:379:GLU:OE2	2.75	0.44
2:R:749:GLU:O	2:R:752:ASN:HB3	2.17	0.44
2:X:751:GLN:O	2:X:755:PHE:CD2	2.60	0.44
2:2:751:GLN:O	2:2:754:HIS:HB2	2.16	0.44
1:A:74:LEU:HD13	1:A:92:PHE:HE2	1.82	0.44
1:B:146:PRO:HG3	1:B:228:HIS:CE1	2.53	0.44
1:B:164:LEU:CG	1:B:165:GLY:N	2.81	0.44
1:B:167:ASN:HA	1:B:170:ARG:CD	2.48	0.44
1:B:348:SER:O	1:B:352:ALA:HB2	2.16	0.44
1:B:392:LEU:O	1:B:396:LEU:CG	2.63	0.44
1:C:161:PRO:O	1:C:162:THR:C	2.60	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:309:VAL:HA	1:C:319:LEU:HD22	1.99	0.44
1:C:363:GLU:H	1:C:363:GLU:CD	2.24	0.44
1:D:37:ILE:CD1	1:D:45:ALA:HB2	2.46	0.44
1:D:354:GLY:O	1:D:358:ILE:HG13	2.17	0.44
1:D:393:ALA:HB2	1:D:425:TRP:CD2	2.52	0.44
1:E:268:SER:OG	1:E:270:THR:HB	2.17	0.44
1:E:289:THR:O	1:E:291:PRO:HD3	2.17	0.44
1:F:209:ASP:O	1:F:210:ASP:C	2.59	0.44
1:G:45:ALA:HA	1:G:50:VAL:CG2	2.47	0.44
1:G:86:LYS:HA	1:G:86:LYS:HD3	1.56	0.44
1:H:281:HIS:CD2	1:H:353:ALA:HB1	2.53	0.44
1:I:4:TYR:CE1	1:I:77:PHE:HD2	2.36	0.44
1:I:39:VAL:C	1:I:41:GLN:N	2.74	0.44
1:I:70:LEU:O	1:I:72:PRO:HD3	2.18	0.44
1:I:97:TYR:CD2	1:I:102:THR:C	2.95	0.44
1:I:281:HIS:CD2	1:I:404:VAL:HG21	2.52	0.44
1:J:291:PRO:HG3	1:J:341:ALA:HA	1.99	0.44
1:J:320:ILE:CD1	1:J:334:VAL:HG22	2.47	0.44
1:K:137:LEU:HD21	1:K:222:ALA:HB1	1.99	0.44
1:K:321:ARG:O	1:K:333:GLU:N	2.47	0.44
1:K:322:ILE:HA	1:K:323:PRO:HD3	1.79	0.44
1:K:443:GLN:NE2	2:U:758:LYS:HZ2	2.14	0.44
1:M:114:ARG:HA	1:M:117:LYS:CD	2.47	0.44
1:N:35:VAL:HG11	1:N:70:LEU:HD22	1.97	0.44
1:N:38:PRO:C	1:N:40:SER:N	2.74	0.44
1:N:147:THR:C	1:N:149:GLU:H	2.25	0.44
1:N:393:ALA:C	1:N:395:ALA:N	2.68	0.44
1:A:20:TYR:O	1:A:21:ILE:HD13	2.16	0.44
1:A:137:LEU:HD13	1:A:227:LEU:CD1	2.48	0.44
1:A:151:ASN:ND2	1:A:227:LEU:HD11	2.33	0.44
1:A:160:ALA:HB1	1:A:161:PRO:HD2	1.97	0.44
1:B:244:MET:HB3	1:B:337:VAL:HG12	2.00	0.44
1:B:265:LEU:C	1:B:267:LEU:N	2.75	0.44
1:C:140:LEU:CB	1:C:226:GLY:O	2.59	0.44
1:D:258:PHE:CE1	1:D:332:VAL:HG23	2.52	0.44
1:E:396:LEU:O	1:E:397:GLU:C	2.60	0.44
1:F:21:ILE:CD1	1:F:42:LEU:HD22	2.48	0.44
1:F:370:ARG:H	1:F:370:ARG:CD	2.28	0.44
1:F:415:GLU:OE1	1:F:416:HIS:CE1	2.71	0.44
1:G:78:VAL:HG12	1:G:79:ILE:N	2.32	0.44
1:G:159:LEU:C	1:G:161:PRO:HD2	2.42	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:390:ALA:HB1	1:I:429:ARG:HH11	1.78	0.44
1:G:392:LEU:O	1:G:396:LEU:HG	2.16	0.44
1:H:209:ASP:O	1:H:210:ASP:C	2.61	0.44
1:J:38:PRO:HD2	1:J:41:GLN:CG	2.47	0.44
1:J:142:GLU:O	1:J:143:LYS:C	2.60	0.44
1:J:240:ASN:ND2	1:J:303:TYR:HB3	2.32	0.44
1:J:349:VAL:O	1:J:352:ALA:HB3	2.17	0.44
1:K:405:MET:C	1:K:408:ALA:H	2.24	0.44
1:L:231:PHE:N	1:L:231:PHE:HD2	2.16	0.44
1:L:390:ALA:C	1:L:391:THR:HG23	2.43	0.44
1:M:129:LEU:CD1	1:M:131:PRO:HG3	2.47	0.44
1:M:186:SER:HB2	1:M:197:ILE:HG13	1.99	0.44
1:M:308:TYR:HD2	1:M:387:ASP:HA	1.81	0.44
1:N:11:LYS:HZ3	1:N:11:LYS:C	2.23	0.44
1:N:212:GLN:O	1:N:213:THR:C	2.59	0.44
1:N:239:VAL:HG22	2:V:757:TYR:OH	2.17	0.44
1:N:261:GLU:CD	1:N:261:GLU:N	2.75	0.44
1:N:402:ASN:OD1	1:N:404:VAL:CG1	2.51	0.44
2:Q:756:ARG:HA	2:Q:756:ARG:HD2	1.63	0.44
1:A:234:LYS:HG2	1:A:297:LYS:O	2.18	0.44
1:A:275:ILE:CD1	1:A:322:ILE:HD11	2.48	0.44
1:B:80:PHE:HA	1:B:81:PRO:HD3	1.76	0.44
1:B:138:PHE:HA	1:B:149:GLU:O	2.18	0.44
1:C:28:ILE:CG2	1:C:29:LEU:HG	2.47	0.44
1:C:79:ILE:HD13	1:C:90:ALA:CB	2.44	0.44
1:C:201:TYR:O	1:C:202:ALA:HB2	2.17	0.44
1:D:194:GLN:C	1:D:195:HIS:CD2	2.96	0.44
1:D:434:PRO:HA	1:D:437:ARG:HE	1.81	0.44
1:E:63:ILE:CB	1:E:64:GLU:HG2	2.47	0.44
1:E:126:ASP:HB3	1:E:127:PHE:H	1.53	0.44
1:E:135:PHE:HE2	1:E:137:LEU:HD21	1.81	0.44
1:E:191:ALA:HB2	2:W:757:TYR:CZ	2.52	0.44
1:F:119:MET:HE2	1:F:124:PHE:CB	2.48	0.44
1:F:212:GLN:O	1:F:213:THR:C	2.60	0.44
1:F:319:LEU:HD23	1:F:319:LEU:C	2.43	0.44
1:F:423:ILE:HA	1:F:426:ASP:CB	2.47	0.44
1:G:29:LEU:HD11	1:G:60:PHE:HE2	1.79	0.44
1:G:30:GLY:HA2	1:G:342:ASN:ND2	2.33	0.44
1:G:78:VAL:CG2	1:G:91:ARG:NH1	2.79	0.44
1:G:134:GLU:HA	1:G:195:HIS:O	2.17	0.44
1:G:163:ASP:OD1	1:G:167:ASN:HB2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:184:GLU:CD	1:M:44:LYS:NZ	2.75	0.44
1:G:218:VAL:O	1:G:218:VAL:CG1	2.65	0.44
1:G:372:ILE:C	1:G:375:MET:H	2.25	0.44
1:H:177:GLU:OE1	1:H:183:ILE:CD1	2.53	0.44
1:H:248:LEU:HD11	1:H:350:LEU:HD13	1.99	0.44
1:H:309:VAL:HA	1:H:319:LEU:HD12	1.98	0.44
1:H:345:LEU:CD2	1:H:413:LEU:HD13	2.46	0.44
1:J:44:LYS:HD3	1:M:184:GLU:OE2	2.17	0.44
1:J:138:PHE:O	1:J:228:HIS:N	2.49	0.44
1:L:281:HIS:CE1	1:L:404:VAL:HG11	2.52	0.44
1:L:376:SER:HB2	1:L:378:GLU:H	1.83	0.44
1:M:28:ILE:HG12	1:M:417:PHE:HD1	1.83	0.44
1:M:351:LEU:HD11	1:M:355:LEU:HD21	1.99	0.44
1:N:265:LEU:C	1:N:267:LEU:N	2.76	0.44
2:Y:746:LYS:O	2:Y:749:GLU:N	2.37	0.44
1:A:96:ILE:CG2	1:A:104:PHE:CB	2.96	0.44
1:A:105:GLU:OE1	1:A:412:HIS:CB	2.66	0.44
1:A:135:PHE:HE1	1:A:197:ILE:HD12	1.81	0.44
1:A:316:ARG:HB3	1:G:63:ILE:O	2.18	0.44
1:B:19:LYS:CG	1:B:87:GLY:HA3	2.47	0.44
1:B:162:THR:O	1:B:163:ASP:CB	2.56	0.44
1:B:306:PRO:HB3	1:B:318:PRO:O	2.18	0.44
1:B:393:ALA:O	1:B:397:GLU:HG2	2.17	0.44
1:C:22:ARG:HD3	1:I:159:LEU:CD2	2.47	0.44
1:C:184:GLU:HA	1:E:41:GLN:OE1	2.18	0.44
1:D:61:VAL:HG23	1:D:416:HIS:HD2	1.82	0.44
1:D:281:HIS:ND1	1:D:353:ALA:HB1	2.33	0.44
1:D:355:LEU:HD23	1:D:358:ILE:HD12	1.98	0.44
1:D:440:TYR:CD1	1:D:444:TYR:CE2	3.06	0.44
1:E:88:LYS:C	1:E:89:VAL:HG23	2.43	0.44
1:F:412:HIS:C	1:F:414:PHE:N	2.75	0.44
1:H:234:LYS:CE	1:H:303:TYR:CE1	3.00	0.44
1:J:116:LEU:HD23	1:J:116:LEU:HA	1.90	0.44
1:J:234:LYS:HG2	1:J:297:LYS:O	2.18	0.44
1:K:372:ILE:CD1	1:K:373:TYR:H	2.29	0.44
1:L:24:GLN:HB3	1:L:34:ASN:HB3	1.98	0.44
1:L:48:ASN:OD1	1:L:71:TYR:CA	2.64	0.44
1:L:176:LEU:HD22	1:L:181:PHE:CD1	2.53	0.44
1:L:280:LYS:NZ	1:L:281:HIS:HE1	2.15	0.44
1:M:194:GLN:O	1:M:195:HIS:CG	2.71	0.44
1:N:185:ALA:O	1:N:198:ASP:N	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:315:ASN:OD1	1:N:370:ARG:NH1	2.50	0.44
2:X:748:LEU:O	2:X:752:ASN:N	2.51	0.44
2:Y:751:GLN:HA	2:Y:751:GLN:HE21	1.82	0.44
1:A:68:MET:CG	1:A:96:ILE:HG23	2.46	0.44
1:A:129:LEU:HD23	1:A:130:GLY:H	1.82	0.44
1:A:160:ALA:HB2	1:A:188:HIS:CD2	2.53	0.44
1:A:328:ILE:H	1:A:328:ILE:CD1	2.29	0.44
1:B:63:ILE:HG22	1:B:64:GLU:CG	2.45	0.44
1:B:298:ARG:C	1:B:299:LEU:HD12	2.42	0.44
1:C:17:ASN:O	1:C:88:LYS:N	2.51	0.44
1:C:34:ASN:OD1	1:I:159:LEU:HG	2.18	0.44
1:C:57:ILE:C	1:C:59:GLY:H	2.24	0.44
1:C:125:SER:OG	1:C:126:ASP:N	2.50	0.44
1:C:239:VAL:HG12	1:C:240:ASN:O	2.18	0.44
1:C:294:ASN:OD1	1:C:294:ASN:O	2.36	0.44
1:D:60:PHE:CD1	2:Y:755:PHE:CE2	3.06	0.44
1:D:310:ALA:HB1	1:D:368:ILE:CG1	2.48	0.44
1:D:320:ILE:HA	1:D:333:GLU:O	2.17	0.44
1:E:32:ILE:HB	1:E:212:GLN:NE2	2.33	0.44
1:E:38:PRO:C	1:E:40:SER:H	2.26	0.44
1:E:80:PHE:HB2	1:E:83:THR:HG21	1.99	0.44
1:E:82:TRP:CD1	1:E:221:ILE:HD11	2.53	0.44
1:G:120:GLU:O	1:G:121:ASP:C	2.60	0.44
1:G:132:GLU:HB2	1:G:245:HIS:HB2	1.99	0.44
1:G:244:MET:HE2	1:G:337:VAL:HG12	1.99	0.44
1:G:338:ASP:OD2	1:G:338:ASP:C	2.60	0.44
1:H:22:ARG:NH1	1:J:159:LEU:HG	2.32	0.44
1:H:137:LEU:HD23	1:H:229:ALA:CA	2.46	0.44
1:H:169:ARG:NH1	1:H:188:HIS:H	2.15	0.44
1:H:250:LEU:HD12	1:H:274:PHE:CE1	2.52	0.44
1:H:310:ALA:HB2	1:H:385:ILE:HG23	1.99	0.44
1:I:20:TYR:CE2	1:L:170:ARG:HG2	2.53	0.44
1:J:27:ASP:O	1:J:108:PRO:HG2	2.18	0.44
1:J:32:ILE:HG12	1:M:159:LEU:CD1	2.40	0.44
1:J:418:ILE:O	1:J:422:GLU:OE1	2.35	0.44
1:K:20:TYR:OH	1:K:36:GLU:OE1	2.35	0.44
1:L:20:TYR:HH	1:L:36:GLU:CD	2.22	0.44
1:L:161:PRO:HB2	1:L:165:GLY:C	2.43	0.44
1:L:354:GLY:O	1:L:358:ILE:HG12	2.17	0.44
1:L:383:ASN:C	1:L:385:ILE:H	2.24	0.44
1:M:110:ASN:O	1:M:113:LYS:N	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:232:MET:HA	1:N:233:PRO:HD3	1.87	0.44
1:N:342:ASN:O	1:N:343:PRO:C	2.61	0.44
1:N:425:TRP:O	1:N:428:PHE:N	2.50	0.44
1:A:286:THR:O	1:A:290:ASN:HB2	2.18	0.44
1:B:80:PHE:HZ	1:B:91:ARG:HG2	1.80	0.44
1:B:212:GLN:O	1:B:213:THR:C	2.58	0.44
1:B:244:MET:SD	1:B:339:PRO:HA	2.58	0.44
1:C:20:TYR:CZ	1:C:36:GLU:HB2	2.53	0.44
1:C:127:PHE:CE2	1:C:248:LEU:HD22	2.52	0.44
1:D:443:GLN:HE22	2:W:758:LYS:HE2	1.82	0.44
1:E:316:ARG:H	1:E:316:ARG:HG3	1.44	0.44
1:F:38:PRO:O	1:F:39:VAL:C	2.60	0.44
1:F:114:ARG:O	1:F:114:ARG:CG	2.63	0.44
1:F:129:LEU:HD12	1:F:347:LEU:HD21	2.00	0.44
1:G:32:ILE:HG21	1:G:216:LEU:CD1	2.47	0.44
1:G:77:PHE:HB2	1:G:92:PHE:CE2	2.53	0.44
1:G:338:ASP:OD2	1:G:340:ALA:N	2.49	0.44
1:J:38:PRO:O	1:J:39:VAL:C	2.60	0.44
1:J:116:LEU:O	1:J:119:MET:HB3	2.18	0.44
1:J:159:LEU:O	1:J:160:ALA:O	2.35	0.44
1:K:140:LEU:CD2	1:K:144:GLY:O	2.64	0.44
1:K:210:ASP:O	1:K:214:PHE:N	2.32	0.44
1:K:211:ILE:O	1:K:214:PHE:HB3	2.17	0.44
1:K:275:ILE:HD11	1:K:332:VAL:HG11	2.00	0.44
1:L:48:ASN:OD1	1:L:71:TYR:CG	2.71	0.44
1:L:310:ALA:HB2	1:L:385:ILE:HG13	2.00	0.44
1:L:368:ILE:HG21	1:L:372:ILE:HG22	1.97	0.44
1:M:169:ARG:HH22	1:M:188:HIS:HB2	1.83	0.44
1:M:303:TYR:CD1	2:U:753:ALA:HB1	2.53	0.44
1:N:116:LEU:O	1:N:119:MET:HB3	2.18	0.44
1:N:119:MET:O	1:N:120:GLU:C	2.61	0.44
1:N:129:LEU:HD12	1:N:347:LEU:HD21	1.99	0.44
1:N:137:LEU:HD23	1:N:137:LEU:HA	1.83	0.44
1:N:162:THR:CG2	1:N:163:ASP:N	2.80	0.44
2:Y:753:ALA:HA	2:Y:756:ARG:CD	2.48	0.44
1:A:105:GLU:HG3	1:A:106:GLY:H	1.81	0.44
1:A:194:GLN:NE2	1:A:241:GLY:O	2.42	0.44
1:A:300:VAL:CG1	1:A:301:PRO:HD2	2.48	0.44
1:B:265:LEU:C	1:B:267:LEU:H	2.25	0.44
1:C:235:PRO:HG2	1:C:236:LEU:N	2.33	0.44
1:C:403:GLU:C	1:C:406:VAL:HG22	2.42	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:54:GLY:C	1:D:56:SER:N	2.69	0.44
1:D:164:LEU:CD2	1:F:223:ARG:HH11	2.22	0.44
1:D:429:ARG:HH11	1:D:429:ARG:CG	2.31	0.44
1:E:326:ARG:HD3	1:E:330:THR:HG23	2.00	0.44
1:E:375:MET:CG	1:E:379:GLU:OE2	2.61	0.44
1:F:60:PHE:HB3	2:X:758:LYS:CB	2.48	0.44
1:G:81:PRO:O	1:G:88:LYS:HE2	2.18	0.44
1:G:214:PHE:CE1	1:G:218:VAL:CG2	3.01	0.44
1:G:303:TYR:O	1:G:305:ALA:N	2.51	0.44
1:I:24:GLN:HG3	1:I:91:ARG:HD3	2.00	0.44
1:I:106:GLY:O	1:I:108:PRO:HD3	2.18	0.44
1:I:146:PRO:HB3	1:I:228:HIS:CG	2.53	0.44
1:I:302:GLY:C	2:Q:750:GLY:CA	2.91	0.44
1:I:309:VAL:HG22	1:I:388:LEU:HD21	1.99	0.44
1:J:52:PHE:C	1:J:52:PHE:CD2	2.96	0.44
1:J:169:ARG:O	1:J:172:ILE:N	2.51	0.44
1:J:376:SER:CB	1:J:378:GLU:OE1	2.62	0.44
1:K:115:ILE:O	1:K:118:GLU:HB2	2.18	0.44
1:L:96:ILE:HG21	1:L:104:PHE:HD2	1.83	0.44
1:L:196:GLU:HG3	1:L:198:ASP:OD1	2.17	0.44
1:L:282:ALA:HA	1:L:285:PHE:CE2	2.52	0.44
1:L:378:GLU:O	1:L:382:GLU:HG3	2.18	0.44
1:M:74:LEU:HD22	1:M:74:LEU:N	2.33	0.44
1:M:82:TRP:O	1:M:83:THR:HG22	2.18	0.44
1:M:98:ASN:HB3	1:M:99:PRO:HD2	2.00	0.44
1:N:79:ILE:HD13	1:N:90:ALA:HB2	2.00	0.44
1:N:96:ILE:CG2	1:N:104:PHE:CD2	2.96	0.44
1:N:232:MET:HE2	1:N:234:LYS:O	2.16	0.44
2:Q:758:LYS:HE3	2:Q:758:LYS:C	2.43	0.44
2:1:748:LEU:O	2:1:748:LEU:HD13	2.18	0.44
1:A:161:PRO:HG2	1:A:166:GLU:OE1	2.18	0.43
1:A:161:PRO:CG	1:A:166:GLU:OE1	2.66	0.43
1:A:211:ILE:N	1:A:211:ILE:HD12	2.32	0.43
1:B:45:ALA:HA	1:B:50:VAL:HG23	1.99	0.43
1:B:53:ASP:OD1	1:B:62:ARG:NH2	2.50	0.43
1:C:63:ILE:O	1:C:63:ILE:CG2	2.66	0.43
1:C:295:SER:OG	1:C:338:ASP:OD1	2.33	0.43
1:C:302:GLY:O	1:C:303:TYR:C	2.60	0.43
1:D:78:VAL:CG2	1:D:91:ARG:HH12	2.30	0.43
1:D:105:GLU:HG3	1:D:106:GLY:N	2.33	0.43
1:D:245:HIS:CG	1:D:335:ARG:HG2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:68:MET:HE3	1:E:104:PHE:CE2	2.53	0.43
1:E:84:ALA:HB1	1:E:88:LYS:HE2	1.99	0.43
1:E:169:ARG:CZ	1:E:187:HIS:O	2.65	0.43
1:E:350:LEU:HD23	1:E:350:LEU:HA	1.79	0.43
1:F:220:THR:O	1:F:220:THR:HG22	2.16	0.43
1:F:351:LEU:O	1:F:351:LEU:CG	2.65	0.43
1:G:32:ILE:HG12	1:G:216:LEU:HD11	2.00	0.43
1:G:316:ARG:HD2	2:T:747:MET:HG2	2.00	0.43
1:G:380:ARG:HH22	2:T:746:LYS:HZ1	1.65	0.43
1:H:9:ILE:O	1:H:10:GLU:C	2.60	0.43
1:H:20:TYR:CE2	1:H:36:GLU:OE2	2.71	0.43
1:H:67:ASP:OD1	1:J:323:PRO:HB3	2.18	0.43
1:H:288:VAL:O	1:H:288:VAL:CG1	2.66	0.43
1:H:429:ARG:O	1:N:297:LYS:HD3	2.18	0.43
1:I:19:LYS:HD3	1:I:39:VAL:HG11	1.99	0.43
1:I:37:ILE:HA	1:I:38:PRO:HD3	1.92	0.43
1:I:281:HIS:O	1:I:285:PHE:N	2.37	0.43
1:I:367:PRO:O	1:I:368:ILE:C	2.61	0.43
1:J:111:ASN:O	1:J:111:ASN:CG	2.60	0.43
1:J:280:LYS:HD3	1:J:281:HIS:CE1	2.53	0.43
1:J:373:TYR:HD2	2:2:746:LYS:CB	2.31	0.43
1:K:76:THR:O	1:K:78:VAL:HG23	2.18	0.43
1:K:157:PHE:CD1	1:K:157:PHE:N	2.86	0.43
1:K:208:CYS:SG	1:K:347:LEU:HD12	2.57	0.43
1:K:305:ALA:HA	1:K:306:PRO:HD3	1.84	0.43
1:K:414:PHE:CZ	1:K:418:ILE:HG13	2.53	0.43
1:L:243:GLY:HA2	1:L:298:ARG:NH1	2.33	0.43
1:L:258:PHE:CD2	1:L:258:PHE:N	2.86	0.43
1:L:287:ALA:CB	1:L:395:ALA:HB1	2.39	0.43
1:L:308:TYR:CE2	1:L:380:ARG:CZ	3.01	0.43
1:M:295:SER:O	1:M:299:LEU:CD2	2.64	0.43
1:M:368:ILE:CG2	1:M:372:ILE:HG23	2.48	0.43
1:N:154:GLY:HA2	1:N:158:ASP:OD1	2.18	0.43
1:N:172:ILE:HG22	1:N:176:LEU:HD11	2.00	0.43
1:N:184:GLU:OE1	1:N:184:GLU:CA	2.61	0.43
2:W:747:MET:HE2	2:W:751:GLN:NE2	2.32	0.43
2:Y:754:HIS:HA	2:Y:757:TYR:HE1	1.83	0.43
1:A:159:LEU:O	1:A:160:ALA:C	2.61	0.43
1:A:289:THR:HG22	1:A:346:ALA:HB1	1.99	0.43
1:A:297:LYS:HE3	1:C:436:GLU:OE2	2.18	0.43
1:A:308:TYR:OH	2:P:746:LYS:HD2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:365:PRO:O	1:B:367:PRO:CD	2.66	0.43
1:B:373:TYR:HD2	2:Z:746:LYS:CB	2.30	0.43
1:C:35:VAL:O	1:C:35:VAL:HG22	2.18	0.43
1:C:37:ILE:O	1:C:38:PRO:O	2.37	0.43
1:C:51:MET:HE2	1:I:325:SER:CB	2.48	0.43
1:C:269:GLU:OE1	1:C:269:GLU:HA	2.18	0.43
1:C:369:ASP:O	1:C:370:ARG:C	2.61	0.43
1:C:396:LEU:O	1:C:399:PHE:HB3	2.18	0.43
1:D:323:PRO:HG2	1:D:331:ARG:NH2	2.33	0.43
1:E:27:ASP:OD2	1:E:30:GLY:N	2.49	0.43
1:E:109:ARG:C	1:E:111:ASN:N	2.75	0.43
1:E:139:LYS:HZ3	1:E:149:GLU:HG2	1.83	0.43
1:F:57:ILE:C	1:F:59:GLY:N	2.76	0.43
1:F:194:GLN:NE2	1:F:241:GLY:C	2.76	0.43
1:F:294:ASN:OD1	1:F:294:ASN:O	2.36	0.43
1:G:159:LEU:HD13	1:M:216:LEU:HD21	1.97	0.43
1:H:347:LEU:HD12	1:H:347:LEU:HA	1.80	0.43
1:I:152:ASP:OD2	1:I:188:HIS:NE2	2.48	0.43
1:I:233:PRO:HB3	1:I:298:ARG:HD3	1.99	0.43
1:J:133:PRO:C	1:J:134:GLU:HG3	2.43	0.43
1:K:52:PHE:CD2	1:K:53:ASP:C	2.96	0.43
1:K:56:SER:CB	1:N:156:TYR:HD2	2.30	0.43
1:K:421:LYS:O	1:K:422:GLU:C	2.59	0.43
1:L:19:LYS:HG3	1:L:87:GLY:HA3	2.01	0.43
1:L:140:LEU:HB2	1:L:226:GLY:O	2.18	0.43
1:L:187:HIS:C	1:L:188:HIS:O	2.58	0.43
1:L:258:PHE:O	1:L:268:SER:N	2.39	0.43
1:L:350:LEU:HD23	1:L:350:LEU:HA	1.56	0.43
1:L:422:GLU:O	1:L:423:ILE:C	2.59	0.43
1:M:47:ASP:HB3	1:M:49:LYS:HE2	2.00	0.43
1:N:244:MET:HE2	1:N:337:VAL:HG12	2.00	0.43
2:U:754:HIS:O	2:U:757:TYR:HD1	2.01	0.43
2:W:750:GLY:O	2:W:754:HIS:N	2.28	0.43
2:Y:750:GLY:O	2:Y:754:HIS:N	2.48	0.43
2:Z:756:ARG:O	2:Z:760:ARG:HD2	2.18	0.43
1:A:160:ALA:HB3	1:A:169:ARG:HH22	1.77	0.43
1:A:288:VAL:O	1:A:291:PRO:CD	2.65	0.43
1:A:396:LEU:O	1:A:400:LYS:HG3	2.18	0.43
1:A:399:PHE:CD2	1:A:418:ILE:HD11	2.54	0.43
1:B:284:SER:HB3	1:B:398:GLU:C	2.44	0.43
1:C:359:LYS:HB2	1:C:359:LYS:HZ3	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:60:PHE:HD2	2:Y:758:LYS:HE2	1.81	0.43
1:E:171:ASP:O	1:E:175:GLU:HG3	2.17	0.43
1:E:286:THR:HG21	1:E:389:PRO:HD2	1.99	0.43
1:E:361:LYS:HB2	1:E:361:LYS:HE3	1.81	0.43
1:F:43:GLY:C	1:F:45:ALA:H	2.27	0.43
1:F:203:GLY:O	1:F:204:ALA:C	2.61	0.43
1:H:35:VAL:CG1	1:H:70:LEU:CD2	2.93	0.43
1:H:107:ASP:HA	1:H:108:PRO:HD3	1.86	0.43
1:H:134:GLU:HB2	1:H:243:GLY:H	1.84	0.43
1:H:244:MET:O	1:H:337:VAL:HG12	2.18	0.43
1:H:278:ILE:O	1:H:278:ILE:HG22	2.17	0.43
1:H:357:GLY:CA	1:H:362:LEU:HD13	2.28	0.43
1:H:404:VAL:HG13	1:H:405:MET:HE2	1.99	0.43
1:I:78:VAL:CG2	1:I:91:ARG:HH12	2.31	0.43
1:I:234:LYS:HD2	1:I:239:VAL:O	2.18	0.43
1:J:38:PRO:HD2	1:J:41:GLN:HG3	2.00	0.43
1:J:61:VAL:O	1:J:62:ARG:C	2.60	0.43
1:J:106:GLY:O	1:J:413:LEU:HD21	2.18	0.43
1:J:129:LEU:CD1	1:J:347:LEU:HD21	2.48	0.43
1:J:297:LYS:HE3	1:K:436:GLU:OE2	2.19	0.43
1:J:368:ILE:HG23	1:J:369:ASP:N	2.33	0.43
1:K:168:CYS:C	1:K:172:ILE:HD13	2.43	0.43
1:K:207:SER:O	1:K:210:ASP:N	2.51	0.43
1:K:269:GLU:O	1:K:273:HIS:HD2	2.02	0.43
1:K:388:LEU:HD23	1:K:388:LEU:N	2.33	0.43
1:M:72:PRO:O	1:M:72:PRO:HG2	2.18	0.43
1:M:157:PHE:N	1:M:157:PHE:HD1	2.16	0.43
1:M:252:LYS:HE3	1:M:252:LYS:HB2	1.83	0.43
1:M:303:TYR:HD1	2:U:753:ALA:HB1	1.82	0.43
1:N:415:GLU:C	1:N:415:GLU:CD	2.86	0.43
1:A:371:ASN:HB3	1:A:374:VAL:HG11	1.99	0.43
1:B:135:PHE:CZ	1:B:195:HIS:HB2	2.53	0.43
1:B:283:THR:OG1	1:B:398:GLU:OE1	2.27	0.43
1:B:307:CYS:O	1:B:388:LEU:HG	2.18	0.43
1:B:427:MET:HE2	1:B:427:MET:HB3	1.45	0.43
1:C:124:PHE:CZ	1:C:358:ILE:HD13	2.53	0.43
1:C:208:CYS:SG	1:C:347:LEU:CD2	3.06	0.43
1:E:71:TYR:HB2	1:E:95:ASP:HB2	2.00	0.43
1:E:331:ARG:O	1:E:331:ARG:HG2	2.16	0.43
1:F:201:TYR:CD1	1:F:201:TYR:C	2.96	0.43
1:F:267:LEU:HD23	1:F:267:LEU:HA	1.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:172:ILE:HD11	1:G:218:VAL:HA	2.01	0.43
1:G:418:ILE:HG22	1:G:422:GLU:CD	2.43	0.43
1:I:264:ASP:N	1:I:264:ASP:OD1	2.50	0.43
1:J:28:ILE:CD1	1:J:345:LEU:HD11	2.49	0.43
1:J:138:PHE:CE2	1:J:148:LEU:HA	2.52	0.43
1:K:71:TYR:CE1	1:K:97:TYR:CD1	3.07	0.43
1:L:22:ARG:CD	1:L:34:ASN:OD1	2.66	0.43
1:L:134:GLU:OE1	3:L:501:GLN:HB2	2.19	0.43
1:L:237:PHE:CD1	1:M:431:GLN:HA	2.53	0.43
1:L:424:GLU:C	1:L:426:ASP:N	2.74	0.43
1:M:250:LEU:HD12	1:M:274:PHE:HD1	1.84	0.43
1:M:333:GLU:HG2	1:M:335:ARG:HG2	2.00	0.43
1:N:231:PHE:O	1:N:232:MET:C	2.62	0.43
1:N:357:GLY:HA2	1:N:362:LEU:HD22	2.00	0.43
1:N:380:ARG:NH1	1:N:387:ASP:OD2	2.52	0.43
1:N:413:LEU:HA	1:N:413:LEU:HD23	1.69	0.43
2:R:748:LEU:O	2:R:748:LEU:HD13	2.18	0.43
1:B:428:PHE:HD1	1:D:435:TRP:CE3	2.36	0.43
1:C:41:GLN:OE1	1:I:200:LYS:CE	2.65	0.43
1:C:151:ASN:CG	1:C:152:ASP:OD1	2.62	0.43
1:C:323:PRO:HG2	1:C:331:ARG:HH21	1.83	0.43
1:D:52:PHE:HE2	1:D:54:GLY:CA	2.23	0.43
1:D:158:ASP:O	1:D:159:LEU:HD12	2.18	0.43
1:D:315:ASN:O	1:D:316:ARG:C	2.62	0.43
1:E:51:MET:HE3	1:E:67:ASP:OD1	2.18	0.43
1:E:175:GLU:O	1:E:178:GLU:N	2.51	0.43
1:E:214:PHE:C	1:E:216:LEU:N	2.76	0.43
1:E:275:ILE:HD13	1:E:332:VAL:HG11	2.00	0.43
1:E:372:ILE:HG13	1:E:372:ILE:O	2.18	0.43
1:F:140:LEU:HB2	1:F:226:GLY:O	2.18	0.43
1:F:250:LEU:HD11	1:F:274:PHE:CD1	2.54	0.43
1:F:406:VAL:HA	1:F:414:PHE:CD1	2.53	0.43
1:G:320:ILE:CG2	1:G:332:VAL:HG12	2.48	0.43
1:H:258:PHE:O	1:H:267:LEU:HA	2.18	0.43
1:I:42:LEU:HD12	1:I:42:LEU:C	2.41	0.43
1:I:170:ARG:O	1:I:174:LEU:CD2	2.66	0.43
1:I:242:SER:O	1:I:298:ARG:HD2	2.18	0.43
1:I:274:PHE:CE2	1:I:278:ILE:HD11	2.53	0.43
1:J:80:PHE:HA	1:J:81:PRO:HD3	1.77	0.43
1:J:114:ARG:C	1:J:116:LEU:N	2.74	0.43
1:J:139:LYS:HD2	1:J:149:GLU:CG	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:218:VAL:C	1:J:220:THR:N	2.77	0.43
1:J:219:LYS:HA	1:J:229:ALA:HB3	2.00	0.43
1:K:56:SER:CB	1:N:156:TYR:CD2	3.01	0.43
1:K:61:VAL:O	1:K:61:VAL:HG23	2.18	0.43
1:K:83:THR:O	1:K:84:ALA:HB3	2.17	0.43
1:K:272:LYS:HZ1	1:K:311:TRP:HH2	1.60	0.43
1:K:317:SER:O	1:K:317:SER:OG	2.31	0.43
1:L:214:PHE:CZ	1:L:218:VAL:CG2	2.99	0.43
1:M:63:ILE:C	1:M:64:GLU:HG3	2.44	0.43
1:M:169:ARG:NH2	1:M:188:HIS:HA	2.34	0.43
1:M:440:TYR:CD1	1:M:444:TYR:HE2	2.37	0.43
2:Q:754:HIS:C	2:Q:757:TYR:HD1	2.25	0.43
2:2:752:ASN:HA	2:2:755:PHE:CE2	2.53	0.43
1:A:23:LEU:CD2	1:A:94:CYS:SG	3.00	0.43
1:B:12:LEU:HD12	1:B:12:LEU:H	1.84	0.43
1:B:62:ARG:HG3	1:B:62:ARG:O	2.18	0.43
1:B:153:LYS:HE2	1:B:153:LYS:CA	2.34	0.43
1:B:170:ARG:NH2	1:N:22:ARG:NH2	2.66	0.43
1:B:238:GLY:C	1:B:239:VAL:CG2	2.90	0.43
1:C:310:ALA:HB1	1:C:368:ILE:HG12	2.00	0.43
1:D:23:LEU:O	1:D:34:ASN:CB	2.64	0.43
1:D:51:MET:HG2	1:D:68:MET:O	2.16	0.43
1:D:132:GLU:N	1:D:133:PRO:CD	2.81	0.43
1:D:418:ILE:HG23	1:D:422:GLU:OE2	2.19	0.43
1:E:316:ARG:HH11	1:E:371:ASN:ND2	2.16	0.43
1:G:5:THR:O	1:G:6:ARG:C	2.62	0.43
1:G:80:PHE:HA	1:G:81:PRO:HD3	1.79	0.43
1:G:368:ILE:HG23	1:G:372:ILE:HD12	2.00	0.43
1:G:411:GLU:H	1:G:411:GLU:HG2	1.49	0.43
1:J:84:ALA:HB2	1:J:88:LYS:HE3	2.01	0.43
1:J:169:ARG:HH22	1:J:188:HIS:HB2	1.83	0.43
1:J:208:CYS:SG	1:J:347:LEU:CD1	3.06	0.43
1:J:306:PRO:HG2	1:J:335:ARG:HB2	1.99	0.43
1:J:421:LYS:HD3	1:J:421:LYS:HA	1.78	0.43
1:K:119:MET:HE1	1:K:127:PHE:CA	2.49	0.43
1:K:302:GLY:O	1:K:304:GLU:N	2.49	0.43
1:K:443:GLN:NE2	1:K:444:TYR:HE2	2.17	0.43
1:L:109:ARG:HD3	1:L:344:TYR:CE2	2.53	0.43
1:M:62:ARG:HB3	2:T:754:HIS:CE1	2.54	0.43
1:M:214:PHE:CE2	1:M:218:VAL:HG21	2.53	0.43
1:M:280:LYS:HD3	1:M:281:HIS:HE2	1.80	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:182:GLU:CD	1:N:200:LYS:HD2	2.43	0.43
1:N:237:PHE:O	1:N:239:VAL:N	2.51	0.43
2:R:751:GLN:HG3	2:R:755:PHE:CE1	2.53	0.43
2:X:748:LEU:O	2:X:748:LEU:HD13	2.19	0.43
1:A:27:ASP:OD2	1:A:27:ASP:C	2.62	0.43
1:A:290:ASN:ND2	1:A:299:LEU:HD11	2.34	0.43
1:B:28:ILE:HG13	1:B:413:LEU:HD22	2.00	0.43
1:B:388:LEU:HD23	1:B:388:LEU:HA	1.82	0.43
1:C:185:ALA:CB	1:E:37:ILE:HG22	2.48	0.43
1:C:271:ALA:O	1:C:275:ILE:HD13	2.18	0.43
1:C:282:ALA:HB1	1:C:319:LEU:HD21	2.00	0.43
1:E:256:ASN:HD22	1:E:328:ILE:CA	2.29	0.43
1:E:366:ALA:HA	1:E:367:PRO:HD2	1.95	0.43
1:F:293:VAL:HG23	1:F:424:GLU:HG2	2.01	0.43
1:F:359:LYS:HB2	1:F:359:LYS:HZ2	1.83	0.43
1:G:160:ALA:N	1:G:161:PRO:CD	2.80	0.43
1:G:215:LYS:O	1:G:216:LEU:C	2.60	0.43
1:H:19:LYS:HD3	1:H:19:LYS:HA	1.59	0.43
1:H:33:LYS:CB	1:J:157:PHE:O	2.64	0.43
1:H:192:PRO:HD3	2:Y:757:TYR:HD2	1.84	0.43
1:H:265:LEU:O	1:H:266:GLN:CB	2.67	0.43
1:I:83:THR:HG21	1:I:89:VAL:H	1.83	0.43
1:I:130:GLY:O	1:I:247:ASN:ND2	2.39	0.43
1:I:257:ALA:O	1:I:258:PHE:HD2	2.01	0.43
1:J:91:ARG:C	1:J:91:ARG:CD	2.92	0.43
1:J:97:TYR:O	1:J:98:ASN:C	2.61	0.43
1:J:373:TYR:CD2	2:2:746:LYS:C	2.96	0.43
1:K:283:THR:HG21	1:K:398:GLU:OE1	2.18	0.43
1:L:43:GLY:C	1:L:45:ALA:N	2.76	0.43
1:L:151:ASN:HD22	1:L:164:LEU:HB2	1.83	0.43
1:L:355:LEU:O	1:L:359:LYS:HB3	2.18	0.43
1:M:55:SER:C	1:M:57:ILE:N	2.73	0.43
1:M:63:ILE:HD12	2:T:747:MET:CE	2.35	0.43
1:M:138:PHE:C	1:M:139:LYS:O	2.61	0.43
1:M:345:LEU:O	1:M:349:VAL:HG22	2.19	0.43
1:N:59:GLY:C	1:N:61:VAL:H	2.27	0.43
1:N:140:LEU:HB2	1:N:226:GLY:O	2.19	0.43
1:N:342:ASN:O	1:N:344:TYR:N	2.51	0.43
2:S:757:TYR:O	2:S:760:ARG:C	2.62	0.43
1:B:58:GLU:C	1:B:59:GLY:O	2.57	0.43
1:B:239:VAL:HA	2:Z:757:TYR:HE2	1.77	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:350:LEU:HD23	1:B:350:LEU:HA	1.84	0.43
1:B:360:ASN:O	1:B:361:LYS:C	2.62	0.43
1:B:377:LYS:CG	1:B:380:ARG:HH12	2.31	0.43
1:B:381:MET:HA	1:B:381:MET:HE3	2.00	0.43
1:C:27:ASP:OD1	1:C:31:THR:HB	2.19	0.43
1:D:109:ARG:HA	1:D:344:TYR:CD2	2.53	0.43
1:D:214:PHE:O	1:D:218:VAL:HG23	2.19	0.43
1:E:9:ILE:O	1:E:12:LEU:HB2	2.19	0.43
1:E:73:ASP:HB3	1:E:76:THR:HG23	2.00	0.43
1:E:135:PHE:CE2	1:E:137:LEU:HD21	2.53	0.43
1:E:139:LYS:NZ	1:E:150:LEU:O	2.50	0.43
1:E:240:ASN:N	2:W:757:TYR:HH	2.17	0.43
1:E:369:ASP:H	1:E:370:ARG:HH21	1.66	0.43
1:E:413:LEU:HA	1:E:413:LEU:HD23	1.60	0.43
1:F:127:PHE:CE1	1:F:248:LEU:HB3	2.54	0.43
1:F:141:ASP:OD2	1:F:145:GLU:N	2.51	0.43
1:F:211:ILE:O	1:F:212:GLN:C	2.61	0.43
1:F:301:PRO:CB	1:F:373:TYR:HE2	2.26	0.43
1:F:351:LEU:O	1:F:351:LEU:HD12	2.19	0.43
1:F:359:LYS:CG	1:F:360:ASN:N	2.82	0.43
1:G:39:VAL:O	1:G:39:VAL:CG2	2.67	0.43
1:G:115:ILE:O	1:G:115:ILE:HG22	2.19	0.43
1:G:404:VAL:CG2	1:G:405:MET:HE2	2.40	0.43
1:G:426:ASP:O	1:G:426:ASP:CG	2.62	0.43
1:H:6:ARG:HG3	1:H:46:LEU:HD13	2.01	0.43
1:I:12:LEU:O	1:I:13:VAL:C	2.61	0.43
1:I:23:LEU:HB2	1:I:35:VAL:HG13	2.00	0.43
1:I:37:ILE:HG22	1:L:185:ALA:HB2	2.00	0.43
1:I:213:THR:O	1:I:217:VAL:HG23	2.18	0.43
1:I:316:ARG:HH12	2:Q:747:MET:HA	1.81	0.43
1:J:176:LEU:HB3	1:J:183:ILE:HD11	2.01	0.43
1:J:194:GLN:NE2	1:J:241:GLY:C	2.76	0.43
1:J:311:TRP:CE2	1:J:367:PRO:HB3	2.54	0.43
1:K:60:PHE:HA	2:V:754:HIS:ND1	2.33	0.43
1:K:159:LEU:C	1:K:159:LEU:CD1	2.90	0.43
1:K:237:PHE:CD1	1:K:238:GLY:N	2.86	0.43
1:K:345:LEU:CD2	1:K:413:LEU:HD11	2.47	0.43
1:L:52:PHE:HE1	1:L:70:LEU:HD13	1.77	0.43
1:L:83:THR:O	1:L:84:ALA:C	2.61	0.43
1:L:127:PHE:CE1	1:L:248:LEU:HB3	2.54	0.43
1:M:135:PHE:CE1	1:M:197:ILE:HD13	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:129:LEU:HD21	1:N:246:CYS:HB3	2.01	0.43
1:N:208:CYS:HG	1:N:343:PRO:C	2.22	0.43
2:S:755:PHE:HA	2:S:758:LYS:HB3	2.01	0.43
2:X:752:ASN:ND2	2:X:755:PHE:CE2	2.86	0.43
2:2:749:GLU:HA	2:2:752:ASN:HB2	2.00	0.43
1:A:276:ALA:HB2	1:A:364:ALA:CA	2.48	0.43
1:B:54:GLY:O	1:B:68:MET:HE3	2.18	0.43
1:B:134:GLU:OE1	3:B:501:GLN:HB3	2.19	0.43
1:B:230:THR:O	1:B:230:THR:HG23	2.18	0.43
1:B:363:GLU:C	1:B:364:ALA:O	2.59	0.43
1:D:164:LEU:CD2	1:F:223:ARG:NH1	2.74	0.43
1:D:433:HIS:C	1:D:435:TRP:N	2.76	0.43
1:E:5:THR:H	1:E:8:ASP:CB	2.31	0.43
1:E:7:GLU:H	1:E:7:GLU:HG3	1.58	0.43
1:E:109:ARG:NH1	1:E:209:ASP:OD1	2.52	0.43
1:F:49:LYS:HD2	1:F:49:LYS:HA	1.81	0.43
1:F:166:GLU:C	1:F:168:CYS:N	2.75	0.43
1:F:305:ALA:HA	1:F:306:PRO:HD3	1.64	0.43
1:F:329:SER:O	1:F:330:THR:C	2.61	0.43
1:F:379:GLU:O	1:F:382:GLU:HB2	2.19	0.43
1:F:437:ARG:O	1:F:441:MET:HB2	2.19	0.43
1:H:19:LYS:HA	1:H:39:VAL:CG1	2.49	0.43
1:H:187:HIS:O	1:H:188:HIS:O	2.36	0.43
1:H:318:PRO:HG2	1:H:335:ARG:HD2	2.01	0.43
1:H:326:ARG:HA	1:H:326:ARG:HD3	1.71	0.43
1:I:3:LYS:CB	1:I:75:ASN:OD1	2.60	0.43
1:I:104:PHE:HZ	1:I:412:HIS:CE1	2.35	0.43
1:I:136:PHE:HA	1:I:194:GLN:HA	2.00	0.43
1:J:116:LEU:HD11	1:J:204:ALA:CB	2.49	0.43
1:K:309:VAL:HG13	1:K:319:LEU:HD13	2.01	0.43
1:L:127:PHE:HE2	1:L:347:LEU:HD22	1.83	0.43
1:L:276:ALA:HB2	1:L:364:ALA:CA	2.49	0.43
1:M:5:THR:O	1:M:6:ARG:C	2.62	0.43
1:M:42:LEU:CD1	1:M:46:LEU:CD2	2.97	0.43
1:M:47:ASP:OD2	1:M:49:LYS:HE2	2.18	0.43
1:M:127:PHE:CZ	1:M:248:LEU:CD2	3.01	0.43
1:M:246:CYS:O	1:M:333:GLU:HA	2.18	0.43
1:M:285:PHE:C	1:M:285:PHE:HD1	2.26	0.43
1:M:372:ILE:O	1:M:374:VAL:N	2.52	0.43
1:N:43:GLY:O	1:N:44:LYS:C	2.62	0.43
1:N:193:GLY:O	1:N:195:HIS:HD2	2.02	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:749:GLU:O	2:P:752:ASN:HB3	2.18	0.43
1:A:138:PHE:O	1:A:228:HIS:N	2.49	0.43
1:A:232:MET:HE3	1:C:440:TYR:HD2	1.84	0.43
1:A:391:THR:C	1:A:393:ALA:N	2.72	0.43
1:A:433:HIS:HA	1:A:434:PRO:HD3	1.82	0.43
1:B:77:PHE:HE1	1:B:90:ALA:CB	2.32	0.43
1:B:115:ILE:HD11	1:B:408:ALA:HA	2.00	0.43
1:B:316:ARG:C	1:B:318:PRO:CD	2.92	0.43
1:B:441:MET:HE3	1:D:138:PHE:CE1	2.54	0.43
1:C:136:PHE:HE2	1:C:194:GLN:H	1.66	0.43
1:C:162:THR:C	1:C:164:LEU:N	2.76	0.43
1:D:18:VAL:CG1	1:D:21:ILE:HD11	2.49	0.43
1:D:63:ILE:HD11	2:Y:751:GLN:OE1	2.19	0.43
1:D:214:PHE:CE1	1:D:218:VAL:CG2	3.02	0.43
1:E:303:TYR:HD1	2:W:753:ALA:HB1	1.83	0.43
1:E:370:ARG:HE	1:E:370:ARG:N	2.11	0.43
1:E:434:PRO:HG2	1:F:434:PRO:CG	2.44	0.43
1:F:289:THR:C	1:F:291:PRO:HD3	2.43	0.43
1:G:276:ALA:HB2	1:G:364:ALA:N	2.34	0.43
1:G:368:ILE:HG23	1:G:372:ILE:CD1	2.49	0.43
1:H:76:THR:HB	1:H:93:ILE:HG12	2.00	0.43
1:H:102:THR:CG2	1:H:103:PRO:N	2.82	0.43
1:H:275:ILE:HD13	1:H:332:VAL:HG11	2.01	0.43
1:I:22:ARG:O	1:I:91:ARG:HA	2.19	0.43
1:K:272:LYS:O	1:K:364:ALA:HB2	2.18	0.43
1:K:281:HIS:ND1	1:K:353:ALA:HB1	2.34	0.43
1:K:281:HIS:O	1:K:282:ALA:C	2.59	0.43
1:M:194:GLN:HE22	1:M:241:GLY:C	2.27	0.43
1:M:302:GLY:HA2	2:U:750:GLY:CA	2.49	0.43
1:M:316:ARG:CD	2:U:747:MET:HG2	2.48	0.43
1:M:347:LEU:HD13	1:M:347:LEU:HA	1.68	0.43
1:N:272:LYS:O	1:N:364:ALA:HB2	2.18	0.43
1:N:375:MET:HG2	1:N:379:GLU:OE2	2.19	0.43
2:R:753:ALA:O	2:R:757:TYR:CE1	2.72	0.43
2:X:746:LYS:C	2:X:748:LEU:N	2.71	0.43
1:A:18:VAL:CG2	1:A:79:ILE:CD1	2.97	0.42
1:A:129:LEU:CD2	1:A:131:PRO:HG3	2.34	0.42
1:A:230:THR:O	1:A:230:THR:CG2	2.67	0.42
1:A:404:VAL:O	1:A:407:LYS:HB2	2.20	0.42
1:A:413:LEU:HD23	1:A:413:LEU:HA	1.83	0.42
1:A:422:GLU:O	1:A:426:ASP:HB2	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:202:ALA:HB1	1:B:206:ARG:HG2	2.01	0.42
1:C:137:LEU:HD12	1:C:195:HIS:CD2	2.54	0.42
1:C:316:ARG:C	1:C:316:ARG:HH11	2.27	0.42
1:C:396:LEU:O	1:C:397:GLU:C	2.61	0.42
1:D:154:GLY:HA3	1:D:188:HIS:CE1	2.53	0.42
1:E:4:TYR:HE2	1:E:12:LEU:HD11	1.84	0.42
1:E:63:ILE:CG2	1:E:64:GLU:HG2	2.48	0.42
1:E:197:ILE:HD12	1:E:214:PHE:CZ	2.54	0.42
1:E:284:SER:OG	1:E:402:ASN:ND2	2.52	0.42
1:E:379:GLU:HA	1:E:382:GLU:CD	2.44	0.42
1:G:13:VAL:HG21	1:G:42:LEU:HD21	2.00	0.42
1:G:235:PRO:HG2	1:G:236:LEU:N	2.33	0.42
1:I:9:ILE:H	1:I:9:ILE:CD1	2.26	0.42
1:I:261:GLU:CD	1:I:261:GLU:N	2.75	0.42
1:I:413:LEU:O	1:I:417:PHE:HB2	2.19	0.42
1:J:64:GLU:CG	1:M:314:GLN:NE2	2.82	0.42
1:J:107:ASP:O	1:J:108:PRO:C	2.61	0.42
1:J:234:LYS:CE	1:J:239:VAL:O	2.68	0.42
1:J:315:ASN:C	1:J:318:PRO:HD3	2.44	0.42
1:K:112:LEU:O	1:K:115:ILE:N	2.52	0.42
1:L:93:ILE:CG2	1:L:94:CYS:N	2.82	0.42
1:L:129:LEU:HD23	1:L:130:GLY:N	2.33	0.42
1:L:138:PHE:HE2	1:L:150:LEU:HD23	1.82	0.42
1:L:427:MET:HE2	1:L:427:MET:HB3	1.85	0.42
1:M:48:ASN:OD1	1:M:71:TYR:CA	2.50	0.42
1:A:55:SER:HB2	1:A:62:ARG:HB2	2.01	0.42
1:A:436:GLU:O	1:C:232:MET:HE3	2.19	0.42
1:B:141:ASP:HB3	1:B:147:THR:HG21	2.01	0.42
1:B:331:ARG:O	1:B:331:ARG:CG	2.66	0.42
1:D:176:LEU:CD2	1:D:217:VAL:HG11	2.48	0.42
1:D:215:LYS:HG3	1:D:231:PHE:CD2	2.54	0.42
1:D:440:TYR:CD1	1:D:444:TYR:HE2	2.37	0.42
1:E:173:VAL:O	1:E:173:VAL:HG12	2.18	0.42
1:E:192:PRO:C	1:E:194:GLN:H	2.27	0.42
1:E:397:GLU:OE1	1:E:397:GLU:HA	2.18	0.42
1:F:95:ASP:HB3	1:F:97:TYR:CE1	2.51	0.42
1:F:109:ARG:O	1:F:110:ASN:C	2.61	0.42
1:F:345:LEU:O	1:F:348:SER:HB2	2.18	0.42
1:G:169:ARG:O	1:G:173:VAL:CG2	2.67	0.42
1:G:300:VAL:CG2	1:I:430:THR:HG22	2.48	0.42
1:G:306:PRO:HA	1:G:317:SER:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:388:LEU:O	1:G:389:PRO:C	2.61	0.42
1:H:56:SER:HB3	1:J:156:TYR:CD2	2.54	0.42
1:H:371:ASN:O	1:H:374:VAL:HG22	2.19	0.42
1:I:9:ILE:HD12	1:I:9:ILE:N	2.27	0.42
1:I:9:ILE:HG12	1:I:74:LEU:CD1	2.48	0.42
1:I:137:LEU:HD12	1:I:195:HIS:NE2	2.34	0.42
1:I:305:ALA:HA	1:I:306:PRO:HD3	1.85	0.42
1:J:159:LEU:O	1:J:160:ALA:C	2.62	0.42
1:J:285:PHE:O	1:J:286:THR:C	2.61	0.42
1:J:380:ARG:HB3	1:J:385:ILE:CG2	2.50	0.42
1:J:406:VAL:HA	1:J:414:PHE:CD1	2.54	0.42
1:K:35:VAL:HG11	1:K:70:LEU:HD21	2.00	0.42
1:K:380:ARG:HH11	1:K:380:ARG:HG2	1.85	0.42
1:L:21:ILE:O	1:L:36:GLU:HA	2.19	0.42
1:L:112:LEU:HD22	1:L:116:LEU:HD12	2.01	0.42
1:L:243:GLY:CA	1:L:298:ARG:NH1	2.82	0.42
1:L:311:TRP:CD2	1:L:367:PRO:HB3	2.54	0.42
1:L:350:LEU:O	1:L:351:LEU:C	2.59	0.42
1:L:380:ARG:O	1:L:385:ILE:HB	2.19	0.42
1:M:19:LYS:HA	1:M:39:VAL:HG12	2.01	0.42
1:M:343:PRO:O	1:M:346:ALA:HB3	2.19	0.42
1:N:200:LYS:HG3	1:N:201:TYR:HB2	2.01	0.42
2:P:747:MET:HE2	2:P:747:MET:HA	2.00	0.42
2:W:749:GLU:CA	2:W:752:ASN:HB2	2.44	0.42
2:Z:752:ASN:O	2:Z:756:ARG:HD2	2.19	0.42
1:A:13:VAL:O	1:A:17:ASN:HA	2.19	0.42
1:A:124:PHE:HD2	1:A:251:PHE:O	2.02	0.42
1:B:259:PHE:CE2	1:B:327:GLY:HA2	2.54	0.42
1:B:435:TRP:CE3	1:D:428:PHE:HD1	2.36	0.42
1:C:321:ARG:NE	1:E:65:GLU:OE1	2.52	0.42
1:C:396:LEU:HD23	1:C:396:LEU:HA	1.87	0.42
1:D:53:ASP:OD1	1:H:156:TYR:CE2	2.72	0.42
1:D:272:LYS:O	1:D:364:ALA:HB2	2.20	0.42
1:E:184:GLU:OE2	1:E:184:GLU:HA	2.18	0.42
1:E:282:ALA:CB	1:E:319:LEU:HD21	2.43	0.42
1:E:418:ILE:CD1	1:E:418:ILE:H	2.32	0.42
1:F:381:MET:C	1:F:383:ASN:H	2.27	0.42
1:G:317:SER:CB	1:G:373:TYR:HH	2.33	0.42
1:G:337:VAL:HG12	1:G:338:ASP:N	2.34	0.42
1:G:377:LYS:O	1:G:377:LYS:CG	2.67	0.42
1:H:56:SER:HB3	1:J:156:TYR:HE2	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:191:ALA:HA	1:H:192:PRO:HD3	1.81	0.42
1:H:418:ILE:CG2	1:H:422:GLU:CD	2.86	0.42
1:I:19:LYS:HB2	1:I:87:GLY:HA3	2.01	0.42
1:I:135:PHE:CE1	1:I:195:HIS:HB2	2.54	0.42
1:I:156:TYR:CZ	1:I:157:PHE:HE1	2.37	0.42
1:J:38:PRO:C	1:J:40:SER:H	2.27	0.42
1:J:139:LYS:HD2	1:J:149:GLU:OE1	2.19	0.42
1:J:194:GLN:NE2	1:J:242:SER:HA	2.35	0.42
1:J:210:ASP:O	1:J:211:ILE:C	2.62	0.42
1:K:83:THR:HB	1:K:84:ALA:H	1.53	0.42
1:K:331:ARG:O	1:K:332:VAL:HG13	2.19	0.42
1:L:28:ILE:HD12	1:L:28:ILE:HA	1.82	0.42
1:L:214:PHE:CE2	1:L:218:VAL:HG21	2.53	0.42
1:L:258:PHE:HA	1:L:271:ALA:HB2	2.02	0.42
1:L:276:ALA:HB2	1:L:364:ALA:HA	2.01	0.42
1:M:168:CYS:C	1:M:170:ARG:H	2.26	0.42
1:M:317:SER:O	1:M:317:SER:OG	2.27	0.42
1:N:35:VAL:CG1	1:N:70:LEU:CD2	2.79	0.42
1:N:244:MET:H	1:N:338:ASP:HA	1.84	0.42
2:S:751:GLN:C	2:S:755:PHE:CD1	2.96	0.42
1:A:170:ARG:O	1:A:173:VAL:N	2.53	0.42
1:B:135:PHE:CE1	1:B:197:ILE:HD12	2.51	0.42
1:B:294:ASN:HA	1:D:436:GLU:OE2	2.19	0.42
1:B:427:MET:SD	2:W:759:ASN:HB3	2.59	0.42
1:C:84:ALA:HB2	1:C:88:LYS:NZ	2.34	0.42
1:C:181:PHE:O	1:C:183:ILE:N	2.52	0.42
1:C:214:PHE:CE1	1:C:218:VAL:CG2	3.02	0.42
1:C:303:TYR:O	1:C:304:GLU:C	2.61	0.42
1:D:60:PHE:HD2	2:Y:758:LYS:HG3	1.82	0.42
1:D:249:SER:HA	1:D:258:PHE:CD1	2.54	0.42
1:D:281:HIS:CD2	1:D:402:ASN:HD21	2.37	0.42
1:D:360:ASN:O	1:D:361:LYS:C	2.63	0.42
1:D:368:ILE:O	1:D:368:ILE:HG22	2.20	0.42
1:E:27:ASP:OD2	1:E:28:ILE:N	2.52	0.42
1:E:290:ASN:ND2	1:E:299:LEU:HD21	2.35	0.42
1:F:234:LYS:CG	1:F:297:LYS:O	2.64	0.42
1:F:429:ARG:HB2	1:F:429:ARG:NH1	2.22	0.42
1:G:50:VAL:CG1	1:G:51:MET:N	2.83	0.42
1:G:322:ILE:HG22	1:G:326:ARG:NH2	2.34	0.42
1:G:439:GLN:OE1	2:S:759:ASN:CA	2.67	0.42
1:H:169:ARG:NE	1:H:195:HIS:ND1	2.66	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:244:MET:O	1:J:245:HIS:C	2.63	0.42
1:J:440:TYR:CD1	1:J:444:TYR:HE2	2.32	0.42
1:K:80:PHE:HA	1:K:81:PRO:HD3	1.77	0.42
1:L:258:PHE:C	1:L:268:SER:HG	2.26	0.42
1:L:258:PHE:CA	1:L:268:SER:OG	2.67	0.42
1:L:422:GLU:C	1:L:424:GLU:N	2.74	0.42
1:L:424:GLU:O	1:L:425:TRP:C	2.61	0.42
1:M:128:ASN:HD22	1:M:128:ASN:N	2.16	0.42
1:M:175:GLU:O	1:M:178:GLU:N	2.51	0.42
1:M:302:GLY:HA2	2:U:750:GLY:N	2.34	0.42
1:M:435:TRP:CZ2	1:M:439:GLN:NE2	2.83	0.42
1:N:169:ARG:NH2	1:N:188:HIS:HB2	2.34	0.42
1:N:291:PRO:O	1:N:421:LYS:HE3	2.19	0.42
2:Q:758:LYS:HE3	2:Q:758:LYS:CA	2.49	0.42
2:T:750:GLY:O	2:T:751:GLN:C	2.61	0.42
2:1:759:ASN:O	2:1:760:ARG:HG3	2.19	0.42
1:A:6:ARG:HH22	1:A:47:ASP:CG	2.27	0.42
1:A:96:ILE:HG21	1:A:104:PHE:CD2	2.54	0.42
1:B:208:CYS:HA	1:B:211:ILE:HG12	2.01	0.42
1:B:224:LYS:C	1:B:226:GLY:H	2.28	0.42
1:C:128:ASN:ND2	1:C:203:GLY:HA2	2.34	0.42
1:D:49:LYS:C	1:D:50:VAL:O	2.59	0.42
1:D:136:PHE:CE2	1:D:194:GLN:HB2	2.53	0.42
1:D:170:ARG:HD3	1:F:20:TYR:CD2	2.53	0.42
1:D:234:LYS:HB2	1:D:298:ARG:HB2	2.01	0.42
1:D:388:LEU:HD23	1:D:388:LEU:HA	1.76	0.42
1:F:62:ARG:HG3	1:F:62:ARG:O	2.18	0.42
1:F:79:ILE:HD12	1:F:79:ILE:N	2.35	0.42
1:F:107:ASP:OD2	1:F:110:ASN:OD1	2.38	0.42
1:F:274:PHE:N	1:F:358:ILE:CD1	2.83	0.42
1:F:284:SER:OG	1:F:402:ASN:HB2	2.19	0.42
1:F:342:ASN:HA	1:F:343:PRO:HD2	1.85	0.42
1:G:109:ARG:HH21	1:G:113:LYS:CE	2.32	0.42
1:G:194:GLN:HE21	1:G:242:SER:CA	2.32	0.42
1:G:317:SER:HB2	1:G:373:TYR:CZ	2.54	0.42
1:H:4:TYR:CE1	1:H:77:PHE:HD2	2.37	0.42
1:H:18:VAL:O	1:H:39:VAL:HG11	2.19	0.42
1:H:114:ARG:HA	1:H:117:LYS:HD2	2.02	0.42
1:H:161:PRO:O	1:H:163:ASP:N	2.52	0.42
1:H:265:LEU:O	1:H:266:GLN:HB2	2.18	0.42
1:I:97:TYR:O	1:I:98:ASN:C	2.63	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:21:ILE:HD12	1:J:39:VAL:HA	2.00	0.42
1:J:71:TYR:HA	1:J:72:PRO:HD2	1.80	0.42
1:J:160:ALA:HB3	1:J:169:ARG:NH2	2.33	0.42
1:J:244:MET:O	1:J:244:MET:CG	2.65	0.42
1:K:32:ILE:CG2	1:N:159:LEU:HD12	2.50	0.42
1:K:129:LEU:C	1:K:131:PRO:HD3	2.44	0.42
1:K:194:GLN:O	1:K:195:HIS:CG	2.72	0.42
1:K:232:MET:HA	1:K:233:PRO:HD3	1.84	0.42
1:M:140:LEU:HD22	1:M:144:GLY:C	2.44	0.42
1:M:433:HIS:HB3	1:M:434:PRO:CD	2.49	0.42
1:N:290:ASN:N	1:N:291:PRO:CD	2.83	0.42
2:Y:748:LEU:O	2:Y:752:ASN:CB	2.57	0.42
1:A:9:ILE:HD12	1:A:77:PHE:CG	2.54	0.42
1:A:377:LYS:HA	1:A:380:ARG:CZ	2.48	0.42
1:D:142:GLU:CD	1:D:142:GLU:N	2.77	0.42
1:D:284:SER:C	1:D:286:THR:H	2.27	0.42
1:E:60:PHE:CD2	2:R:758:LYS:CG	2.98	0.42
1:E:86:LYS:HE3	1:E:86:LYS:HB2	1.86	0.42
1:E:214:PHE:CZ	1:E:218:VAL:HG21	2.54	0.42
1:E:240:ASN:HD21	1:E:303:TYR:HA	1.85	0.42
1:E:311:TRP:HB3	1:E:320:ILE:CB	2.45	0.42
1:F:138:PHE:O	1:F:227:LEU:CB	2.57	0.42
1:G:109:ARG:HH21	1:G:113:LYS:HE3	1.83	0.42
1:G:203:GLY:O	1:G:204:ALA:C	2.62	0.42
1:H:68:MET:HG3	1:H:69:TYR:H	1.84	0.42
1:H:201:TYR:HD1	1:H:201:TYR:O	2.03	0.42
1:H:316:ARG:C	1:H:316:ARG:HD2	2.44	0.42
1:H:343:PRO:O	1:H:347:LEU:CB	2.63	0.42
1:H:418:ILE:C	1:H:420:ALA:N	2.75	0.42
1:I:389:PRO:HB3	1:I:395:ALA:CA	2.49	0.42
1:J:53:ASP:OD2	1:J:65:GLU:HA	2.19	0.42
1:J:77:PHE:HA	1:J:91:ARG:O	2.19	0.42
1:J:181:PHE:HB3	1:J:183:ILE:HD11	2.00	0.42
1:J:402:ASN:HB3	1:J:405:MET:HB2	2.02	0.42
1:J:431:GLN:HG3	1:K:435:TRP:HE1	1.83	0.42
1:K:308:TYR:CZ	1:K:380:ARG:CZ	3.03	0.42
1:K:409:LEU:O	1:K:413:LEU:HB3	2.20	0.42
1:L:11:LYS:HE2	1:L:11:LYS:HB3	1.89	0.42
1:L:89:VAL:HG12	1:L:90:ALA:N	2.34	0.42
1:L:321:ARG:C	1:L:323:PRO:HD3	2.44	0.42
1:M:43:GLY:O	1:M:47:ASP:OD1	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:211:ILE:O	1:M:212:GLN:C	2.62	0.42
1:M:217:VAL:HG13	1:M:221:ILE:CD1	2.45	0.42
1:M:307:CYS:O	1:M:308:TYR:HD2	2.02	0.42
1:N:91:ARG:HD2	1:N:92:PHE:CA	2.50	0.42
1:N:316:ARG:NH2	2:V:751:GLN:N	2.68	0.42
1:N:377:LYS:HB3	1:N:380:ARG:NH1	2.34	0.42
2:Q:754:HIS:HA	2:Q:757:TYR:HE1	1.83	0.42
2:W:755:PHE:O	2:W:756:ARG:C	2.62	0.42
2:1:751:GLN:O	2:1:755:PHE:CD1	2.72	0.42
1:A:207:SER:O	1:A:211:ILE:HD13	2.20	0.42
1:B:232:MET:HA	1:B:233:PRO:HD3	1.82	0.42
1:B:383:ASN:O	1:B:385:ILE:HG13	2.20	0.42
1:C:14:LYS:C	1:C:16:GLU:N	2.76	0.42
1:C:228:HIS:CD2	1:C:230:THR:HB	2.54	0.42
1:C:436:GLU:O	1:C:439:GLN:HB2	2.19	0.42
1:D:23:LEU:HD13	1:D:70:LEU:HD23	2.01	0.42
1:D:135:PHE:O	1:D:195:HIS:N	2.52	0.42
1:D:172:ILE:C	1:D:174:LEU:H	2.28	0.42
1:D:271:ALA:O	1:D:275:ILE:HG13	2.20	0.42
1:E:116:LEU:HD23	1:E:351:LEU:HD21	2.02	0.42
1:E:323:PRO:CG	1:E:331:ARG:CG	2.96	0.42
1:E:410:GLY:O	1:E:411:GLU:C	2.63	0.42
1:F:131:PRO:HG2	1:F:199:PHE:CE1	2.53	0.42
1:F:214:PHE:CE1	1:F:218:VAL:CG2	3.03	0.42
1:F:371:ASN:HB3	1:F:374:VAL:HG13	2.01	0.42
1:F:416:HIS:HA	1:F:419:GLU:HB2	2.02	0.42
1:G:179:MET:O	1:G:180:GLY:C	2.62	0.42
1:G:182:GLU:OE1	1:G:200:LYS:CE	2.68	0.42
1:G:294:ASN:ND2	1:I:432:VAL:HG13	2.34	0.42
1:H:19:LYS:HA	1:H:39:VAL:HG11	2.01	0.42
1:H:98:ASN:HD22	1:H:102:THR:HG22	1.83	0.42
1:H:136:PHE:HD2	1:H:150:LEU:CD2	2.33	0.42
1:H:249:SER:O	1:H:251:PHE:CD1	2.73	0.42
1:H:294:ASN:C	1:H:296:TYR:N	2.77	0.42
1:I:69:TYR:CD1	1:I:99:PRO:HA	2.55	0.42
1:I:247:ASN:HA	1:I:333:GLU:HA	2.01	0.42
1:I:342:ASN:HB3	1:I:345:LEU:HB2	2.01	0.42
1:J:58:GLU:CG	1:J:416:HIS:CD2	3.01	0.42
1:J:64:GLU:HB2	1:M:314:GLN:CD	2.44	0.42
1:J:356:ASP:O	1:J:360:ASN:HB2	2.20	0.42
1:J:418:ILE:CG2	1:J:422:GLU:OE2	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:238:GLY:O	1:K:239:VAL:HG23	2.18	0.42
1:L:36:GLU:H	1:L:36:GLU:HG2	1.53	0.42
1:L:273:HIS:O	1:L:274:PHE:C	2.63	0.42
1:L:317:SER:OG	1:L:373:TYR:HE1	2.02	0.42
1:M:141:ASP:OD2	1:M:141:ASP:C	2.62	0.42
1:M:188:HIS:ND1	1:M:189:GLU:N	2.66	0.42
1:M:260:ASP:O	1:M:266:GLN:HA	2.20	0.42
1:N:270:THR:O	1:N:271:ALA:C	2.62	0.42
2:T:747:MET:O	2:T:751:GLN:CB	2.62	0.42
1:A:19:LYS:HA	1:A:19:LYS:HD3	1.66	0.42
1:A:303:TYR:O	1:A:304:GLU:CB	2.68	0.42
1:B:40:SER:OG	1:E:177:GLU:OE2	2.25	0.42
1:B:234:LYS:HE2	1:B:239:VAL:O	2.19	0.42
1:B:250:LEU:C	1:B:251:PHE:HD1	2.28	0.42
1:B:404:VAL:HG22	1:B:405:MET:H	1.83	0.42
1:C:32:ILE:HG13	1:I:159:LEU:HD12	2.02	0.42
1:C:228:HIS:NE2	1:C:230:THR:HB	2.34	0.42
1:C:239:VAL:O	1:C:240:ASN:C	2.63	0.42
1:C:395:ALA:O	1:C:396:LEU:C	2.62	0.42
1:C:429:ARG:HG2	1:C:429:ARG:NH1	2.35	0.42
1:D:162:THR:HG22	1:D:163:ASP:N	2.35	0.42
1:E:127:PHE:O	1:E:128:ASN:ND2	2.53	0.42
1:E:166:GLU:HA	1:E:169:ARG:CB	2.49	0.42
1:E:176:LEU:O	1:E:181:PHE:HB2	2.19	0.42
1:E:193:GLY:O	1:E:195:HIS:CD2	2.73	0.42
1:E:250:LEU:HD11	1:E:274:PHE:CE1	2.54	0.42
1:G:329:SER:O	1:G:330:THR:C	2.60	0.42
1:G:372:ILE:C	1:G:375:MET:HB2	2.43	0.42
1:H:410:GLY:O	1:H:411:GLU:C	2.62	0.42
1:I:252:LYS:NZ	1:I:252:LYS:CB	2.81	0.42
1:I:326:ARG:HD3	1:I:326:ARG:HA	1.70	0.42
1:J:96:ILE:HG22	1:J:104:PHE:HB3	2.00	0.42
1:J:156:TYR:CZ	1:J:157:PHE:CE1	3.07	0.42
1:J:248:LEU:O	1:J:331:ARG:HA	2.19	0.42
1:L:38:PRO:O	1:L:40:SER:N	2.52	0.42
1:L:139:LYS:HA	1:L:227:LEU:HD23	1.99	0.42
1:L:183:ILE:HG22	1:L:199:PHE:HB3	2.02	0.42
1:L:271:ALA:C	1:L:273:HIS:N	2.69	0.42
1:L:370:ARG:CG	1:L:371:ASN:N	2.82	0.42
1:M:114:ARG:NH2	1:M:407:LYS:O	2.52	0.42
1:M:256:ASN:HD22	1:M:328:ILE:C	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:295:SER:O	1:M:298:ARG:HB3	2.20	0.42
1:N:18:VAL:O	1:N:39:VAL:HG11	2.20	0.42
1:N:24:GLN:O	1:N:25:PHE:HB3	2.20	0.42
1:N:191:ALA:O	1:N:194:GLN:CB	2.68	0.42
1:N:273:HIS:O	1:N:276:ALA:N	2.53	0.42
1:N:316:ARG:HG2	1:N:373:TYR:CE1	2.54	0.42
2:X:750:GLY:C	2:X:752:ASN:N	2.77	0.42
2:Y:757:TYR:HB2	2:Y:758:LYS:H	1.67	0.42
2:1:751:GLN:C	2:1:753:ALA:N	2.78	0.42
1:A:311:TRP:O	1:A:312:SER:OG	2.37	0.42
1:B:135:PHE:HE1	1:B:197:ILE:CD1	2.31	0.42
1:B:313:ALA:O	1:B:314:GLN:CB	2.58	0.42
1:B:402:ASN:OD1	1:B:404:VAL:N	2.53	0.42
1:C:23:LEU:H	1:C:23:LEU:HG	1.67	0.42
1:C:252:LYS:O	1:C:252:LYS:HG3	2.20	0.42
1:C:436:GLU:C	1:C:439:GLN:HB2	2.45	0.42
1:D:30:GLY:HA2	1:D:342:ASN:HD22	1.84	0.42
1:D:156:TYR:CE1	1:D:157:PHE:CE1	3.07	0.42
1:E:16:GLU:OE2	1:E:88:LYS:HD2	2.19	0.42
1:E:322:ILE:CD1	1:E:332:VAL:HG13	2.50	0.42
1:E:426:ASP:O	1:E:427:MET:C	2.63	0.42
1:F:28:ILE:HG23	1:F:29:LEU:N	2.34	0.42
1:F:58:GLU:CD	1:F:416:HIS:CD2	2.98	0.42
1:G:106:GLY:HA2	1:G:413:LEU:HD12	2.01	0.42
1:G:119:MET:HE3	1:G:250:LEU:HD21	1.97	0.42
1:H:47:ASP:O	1:H:48:ASN:HB2	2.20	0.42
1:H:68:MET:CE	1:H:99:PRO:HD3	2.49	0.42
1:H:252:LYS:O	1:H:253:ASN:OD1	2.37	0.42
1:I:85:GLU:C	1:I:86:LYS:HD3	2.45	0.42
1:I:164:LEU:H	1:I:164:LEU:CD2	2.30	0.42
1:I:214:PHE:C	1:I:214:PHE:CD2	2.97	0.42
1:J:413:LEU:HA	1:J:413:LEU:HD23	1.81	0.42
1:J:423:ILE:O	1:J:426:ASP:HB3	2.19	0.42
1:K:32:ILE:CG1	1:N:159:LEU:HD12	2.50	0.42
1:K:110:ASN:O	1:K:111:ASN:C	2.62	0.42
1:K:174:LEU:O	1:K:177:GLU:HB2	2.20	0.42
1:M:283:THR:CG2	1:M:398:GLU:OE2	2.67	0.42
1:N:21:ILE:O	1:N:21:ILE:HG22	2.18	0.42
1:N:23:LEU:HB3	1:N:94:CYS:SG	2.59	0.42
1:N:71:TYR:CE1	1:N:97:TYR:CB	3.02	0.42
1:N:212:GLN:C	1:N:214:PHE:N	2.73	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:250:LEU:HD12	1:N:274:PHE:CD1	2.55	0.42
1:N:272:LYS:NZ	1:N:311:TRP:CH2	2.76	0.42
2:S:758:LYS:C	2:S:760:ARG:H	2.28	0.42
2:V:752:ASN:C	2:V:754:HIS:H	2.28	0.42
1:A:162:THR:HG22	1:A:163:ASP:CB	2.50	0.42
1:A:173:VAL:HG12	1:A:174:LEU:N	2.35	0.42
1:A:234:LYS:HE2	1:A:239:VAL:O	2.20	0.42
1:B:91:ARG:NH2	1:B:93:ILE:HD11	2.34	0.42
1:B:297:LYS:HE3	1:D:436:GLU:OE2	2.20	0.42
1:B:402:ASN:OD1	1:B:404:VAL:HG22	2.20	0.42
1:C:9:ILE:CG1	1:C:74:LEU:HD12	2.39	0.42
1:C:112:LEU:O	1:C:116:LEU:HG	2.20	0.42
1:C:169:ARG:NH1	1:C:188:HIS:N	2.68	0.42
1:D:60:PHE:HD2	2:Y:758:LYS:CG	2.32	0.42
1:D:260:ASP:HB2	1:D:268:SER:N	2.35	0.42
1:F:55:SER:O	1:F:62:ARG:HB3	2.20	0.42
1:F:91:ARG:HD2	1:F:92:PHE:N	2.35	0.42
1:F:208:CYS:O	1:F:209:ASP:C	2.62	0.42
1:F:304:GLU:OE2	3:F:501:GLN:CG	2.66	0.42
1:F:343:PRO:O	1:F:347:LEU:HD23	2.19	0.42
1:F:366:ALA:HA	1:F:367:PRO:HD2	1.79	0.42
1:G:24:GLN:HE21	1:G:24:GLN:HB3	1.49	0.42
1:G:127:PHE:CZ	1:G:351:LEU:HD13	2.54	0.42
1:G:380:ARG:O	1:G:380:ARG:HG2	2.18	0.42
1:H:270:THR:CG2	1:H:358:ILE:CG2	2.98	0.42
1:I:19:LYS:HD3	1:I:19:LYS:HA	1.87	0.42
1:J:60:PHE:CD1	2:U:755:PHE:CD2	3.07	0.42
1:J:63:ILE:CD1	2:U:751:GLN:OE1	2.68	0.42
1:J:411:GLU:OE2	1:J:411:GLU:CA	2.61	0.42
1:K:58:GLU:HG2	1:K:416:HIS:CD2	2.54	0.42
1:K:72:PRO:HA	1:K:94:CYS:SG	2.60	0.42
1:K:411:GLU:HA	1:K:411:GLU:OE2	2.19	0.42
1:K:432:VAL:HA	1:K:436:GLU:OE1	2.19	0.42
1:L:126:ASP:OD1	1:L:126:ASP:N	2.52	0.42
1:M:299:LEU:HD12	1:M:306:PRO:O	2.20	0.42
1:M:400:LYS:HG2	1:M:418:ILE:CD1	2.49	0.42
1:N:302:GLY:CA	2:V:749:GLU:C	2.92	0.42
1:N:372:ILE:HD12	1:N:373:TYR:CG	2.55	0.42
2:1:754:HIS:HA	2:1:757:TYR:CE1	2.54	0.42
1:A:271:ALA:O	1:A:275:ILE:HG13	2.19	0.41
1:A:370:ARG:HG3	1:A:371:ASN:H	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:429:ARG:O	1:C:297:LYS:HD2	2.19	0.41
1:B:159:LEU:HA	1:B:159:LEU:HD13	1.78	0.41
1:B:259:PHE:CD1	1:B:260:ASP:N	2.88	0.41
1:B:371:ASN:O	1:B:375:MET:SD	2.77	0.41
1:C:232:MET:HE2	1:C:294:ASN:HD21	1.80	0.41
1:C:281:HIS:HD2	1:C:353:ALA:HB1	1.85	0.41
1:C:414:PHE:CZ	1:C:418:ILE:CD1	3.03	0.41
1:E:137:LEU:HD12	1:E:195:HIS:CD2	2.55	0.41
1:E:198:ASP:OD2	1:E:198:ASP:N	2.51	0.41
1:E:265:LEU:C	1:E:267:LEU:N	2.76	0.41
1:E:308:TYR:HD1	1:E:372:ILE:CD1	2.33	0.41
1:E:308:TYR:CB	1:E:372:ILE:HD12	2.40	0.41
1:F:429:ARG:NH1	1:F:429:ARG:O	2.53	0.41
1:G:13:VAL:HG13	1:G:18:VAL:CB	2.42	0.41
1:G:167:ASN:HD22	1:G:170:ARG:NE	2.18	0.41
1:H:97:TYR:CG	1:H:103:PRO:HA	2.55	0.41
1:H:136:PHE:CE1	1:H:194:GLN:NE2	2.88	0.41
1:H:136:PHE:O	1:H:229:ALA:HA	2.19	0.41
1:I:30:GLY:H	1:I:342:ASN:HD22	1.66	0.41
1:I:240:ASN:HB3	3:I:501:GLN:N	2.35	0.41
1:J:97:TYR:CE2	1:J:103:PRO:N	2.88	0.41
1:J:115:ILE:O	1:J:118:GLU:HB2	2.20	0.41
1:K:169:ARG:HH21	1:K:195:HIS:CD2	2.37	0.41
1:K:429:ARG:HH11	1:K:429:ARG:HG3	1.85	0.41
1:L:18:VAL:HG21	1:L:79:ILE:CD1	2.47	0.41
1:L:168:CYS:O	1:L:169:ARG:C	2.61	0.41
1:L:238:GLY:O	2:S:756:ARG:HD3	2.21	0.41
1:M:97:TYR:CE2	1:M:103:PRO:CD	3.03	0.41
1:M:112:LEU:O	1:M:116:LEU:HG	2.20	0.41
1:M:261:GLU:CD	1:M:261:GLU:H	2.27	0.41
1:M:294:ASN:C	1:M:296:TYR:H	2.28	0.41
1:M:320:ILE:N	1:M:320:ILE:CD1	2.80	0.41
1:N:60:PHE:HB3	2:Z:758:LYS:HG2	2.02	0.41
1:N:259:PHE:CE2	1:N:261:GLU:OE2	2.73	0.41
2:Q:754:HIS:O	2:Q:757:TYR:CD1	2.73	0.41
1:A:142:GLU:N	1:A:142:GLU:OE2	2.52	0.41
1:B:71:TYR:C	1:B:94:CYS:HB3	2.44	0.41
1:C:266:GLN:CB	1:C:326:ARG:HD2	2.50	0.41
1:D:106:GLY:HA2	1:D:413:LEU:HG	2.01	0.41
1:D:131:PRO:C	1:D:133:PRO:CD	2.93	0.41
1:D:158:ASP:HB3	1:D:159:LEU:H	1.71	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:289:THR:CG2	1:D:337:VAL:HG22	2.50	0.41
1:D:315:ASN:OD1	1:D:316:ARG:HG3	2.20	0.41
1:E:210:ASP:O	1:E:211:ILE:C	2.60	0.41
1:E:294:ASN:C	1:E:296:TYR:N	2.78	0.41
1:F:85:GLU:O	1:F:86:LYS:CB	2.68	0.41
1:F:102:THR:O	1:F:103:PRO:C	2.63	0.41
1:F:162:THR:CG2	1:F:162:THR:O	2.65	0.41
1:G:9:ILE:O	1:G:10:GLU:C	2.63	0.41
1:G:222:ALA:CB	1:G:229:ALA:HB2	2.50	0.41
1:H:162:THR:O	1:H:163:ASP:CB	2.68	0.41
1:H:172:ILE:HG13	1:H:221:ILE:HG21	2.01	0.41
1:H:184:GLU:O	1:H:185:ALA:CB	2.68	0.41
1:J:70:LEU:O	1:J:72:PRO:HD3	2.20	0.41
1:J:96:ILE:N	1:J:96:ILE:CD1	2.83	0.41
1:J:111:ASN:HD21	1:J:409:LEU:HA	1.84	0.41
1:J:318:PRO:HB2	1:J:320:ILE:O	2.20	0.41
1:K:98:ASN:O	1:K:100:ASP:N	2.53	0.41
1:K:156:TYR:O	1:L:33:LYS:HD3	2.19	0.41
1:L:284:SER:O	1:L:399:PHE:CD1	2.73	0.41
1:M:175:GLU:C	1:M:177:GLU:N	2.73	0.41
1:M:278:ILE:H	1:M:278:ILE:HG12	1.67	0.41
1:M:283:THR:HG22	1:M:398:GLU:OE2	2.20	0.41
1:N:172:ILE:HG22	1:N:176:LEU:CD1	2.50	0.41
2:T:754:HIS:O	2:T:757:TYR:CD1	2.68	0.41
2:U:753:ALA:C	2:U:757:TYR:CE1	2.99	0.41
1:A:257:ALA:O	1:A:268:SER:HB2	2.20	0.41
1:B:239:VAL:CA	2:Z:757:TYR:OH	2.68	0.41
1:C:72:PRO:HB2	1:C:92:PHE:CD2	2.55	0.41
1:C:93:ILE:CG2	1:C:94:CYS:N	2.83	0.41
1:C:159:LEU:HD12	1:E:32:ILE:HD12	2.02	0.41
1:D:150:LEU:CD2	1:D:192:PRO:O	2.68	0.41
1:E:254:GLY:O	1:E:255:VAL:HG23	2.21	0.41
1:F:38:PRO:C	1:F:40:SER:N	2.76	0.41
1:G:248:LEU:N	1:G:248:LEU:HD23	2.35	0.41
1:G:372:ILE:O	1:G:375:MET:N	2.54	0.41
1:H:170:ARG:O	1:H:173:VAL:HB	2.20	0.41
1:H:257:ALA:O	1:H:268:SER:HB3	2.20	0.41
1:I:70:LEU:HD12	1:I:96:ILE:CD1	2.50	0.41
1:I:127:PHE:CD1	1:I:351:LEU:HD13	2.55	0.41
1:J:60:PHE:HD2	2:U:758:LYS:HE2	1.85	0.41
1:J:116:LEU:O	1:J:119:MET:CB	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:186:SER:HA	1:J:196:GLU:O	2.20	0.41
1:J:375:MET:HB2	1:J:380:ARG:HG2	2.02	0.41
1:K:323:PRO:HG2	1:K:331:ARG:CZ	2.49	0.41
1:K:400:LYS:HG2	1:K:414:PHE:HZ	1.85	0.41
1:L:6:ARG:CZ	1:L:46:LEU:CB	2.98	0.41
1:L:164:LEU:HD12	1:L:168:CYS:HB2	2.02	0.41
1:L:184:GLU:H	1:L:199:PHE:HA	1.85	0.41
1:L:219:LYS:HG2	1:L:229:ALA:O	2.20	0.41
1:L:303:TYR:O	1:L:304:GLU:CB	2.66	0.41
1:L:330:THR:C	1:L:331:ARG:HD3	2.45	0.41
1:M:47:ASP:O	1:M:48:ASN:HB2	2.19	0.41
1:M:165:GLY:C	1:M:167:ASN:N	2.77	0.41
1:N:112:LEU:O	1:N:116:LEU:HG	2.20	0.41
1:N:373:TYR:CD1	2:V:747:MET:HG3	2.55	0.41
1:A:32:ILE:HG23	1:A:32:ILE:O	2.21	0.41
1:A:82:TRP:NE1	1:A:221:ILE:CD1	2.52	0.41
1:A:163:ASP:N	1:A:170:ARG:NH2	2.63	0.41
1:B:18:VAL:HA	1:B:88:LYS:O	2.19	0.41
1:B:54:GLY:O	1:B:68:MET:CE	2.68	0.41
1:B:237:PHE:CD2	1:B:238:GLY:N	2.89	0.41
1:C:17:ASN:OD1	1:C:87:GLY:HA2	2.20	0.41
1:C:162:THR:HG22	1:C:164:LEU:H	1.85	0.41
1:C:382:GLU:OE2	1:C:382:GLU:CA	2.69	0.41
1:D:28:ILE:CG2	1:D:29:LEU:N	2.83	0.41
1:D:89:VAL:HG11	1:H:170:ARG:HH21	1.84	0.41
1:E:32:ILE:O	1:E:32:ILE:CG2	2.67	0.41
1:F:141:ASP:O	1:F:144:GLY:N	2.53	0.41
1:F:211:ILE:HG21	1:F:343:PRO:HB3	2.02	0.41
1:F:250:LEU:HD11	1:F:274:PHE:HD1	1.86	0.41
1:F:272:LYS:HA	1:F:272:LYS:HD2	1.84	0.41
1:F:316:ARG:HB3	1:F:317:SER:H	1.56	0.41
1:G:366:ALA:O	1:G:367:PRO:C	2.58	0.41
1:G:396:LEU:HB3	1:G:400:LYS:HE2	2.02	0.41
1:H:71:TYR:CE2	1:H:97:TYR:CD2	3.08	0.41
1:H:122:LEU:HD11	1:H:359:LYS:HD3	2.03	0.41
1:H:236:LEU:HD23	1:H:236:LEU:HA	1.86	0.41
1:H:272:LYS:NZ	1:H:311:TRP:CH2	2.86	0.41
1:I:142:GLU:CD	1:I:142:GLU:H	2.28	0.41
1:I:233:PRO:HG3	1:I:338:ASP:OD1	2.20	0.41
1:I:269:GLU:C	1:I:271:ALA:N	2.76	0.41
1:K:6:ARG:NH1	1:K:46:LEU:CB	2.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:52:PHE:CE2	1:K:54:GLY:CA	3.03	0.41
1:K:71:TYR:HA	1:K:72:PRO:HD2	1.88	0.41
1:K:120:GLU:C	1:K:122:LEU:H	2.27	0.41
1:K:282:ALA:HA	1:K:285:PHE:CZ	2.55	0.41
1:K:303:TYR:CE1	2:1:753:ALA:CB	3.04	0.41
1:K:308:TYR:CE2	1:K:380:ARG:NH1	2.88	0.41
1:L:291:PRO:CD	1:L:341:ALA:HA	2.50	0.41
1:L:296:TYR:CE1	1:L:392:LEU:CA	3.00	0.41
1:L:352:ALA:O	1:L:353:ALA:C	2.62	0.41
1:M:64:GLU:O	1:M:65:GLU:C	2.61	0.41
1:M:173:VAL:C	1:M:175:GLU:N	2.79	0.41
1:N:236:LEU:HB2	1:N:239:VAL:HB	2.03	0.41
1:N:255:VAL:HG12	1:N:256:ASN:O	2.20	0.41
2:Q:755:PHE:O	2:Q:756:ARG:C	2.62	0.41
1:A:58:GLU:HG2	1:A:416:HIS:CD2	2.56	0.41
1:A:127:PHE:O	1:A:127:PHE:CG	2.72	0.41
1:A:178:GLU:C	1:A:180:GLY:H	2.28	0.41
1:A:187:HIS:NE2	1:A:196:GLU:OE1	2.53	0.41
1:A:240:ASN:HD22	3:A:501:GLN:CA	2.33	0.41
1:A:305:ALA:HA	1:A:306:PRO:HD3	1.80	0.41
1:A:390:ALA:O	1:C:429:ARG:NH1	2.53	0.41
1:B:69:TYR:HE1	1:B:99:PRO:HB3	1.85	0.41
1:B:115:ILE:HD13	1:B:352:ALA:HB2	2.02	0.41
1:B:292:THR:O	1:B:295:SER:CB	2.69	0.41
1:B:347:LEU:O	1:B:347:LEU:CD1	2.69	0.41
1:B:428:PHE:CD1	1:D:435:TRP:CE3	3.09	0.41
1:C:72:PRO:HA	1:C:94:CYS:HB3	2.01	0.41
1:E:211:ILE:HD13	1:E:211:ILE:N	2.36	0.41
1:E:232:MET:CE	1:E:294:ASN:ND2	2.83	0.41
1:E:301:PRO:HA	1:E:307:CYS:SG	2.60	0.41
1:E:338:ASP:C	1:E:340:ALA:H	2.28	0.41
1:E:375:MET:CB	1:E:379:GLU:HB3	2.47	0.41
1:F:91:ARG:NE	1:F:93:ILE:HD11	2.35	0.41
1:F:172:ILE:C	1:F:176:LEU:HD12	2.45	0.41
1:F:235:PRO:CG	1:F:236:LEU:H	2.33	0.41
1:F:380:ARG:NH1	1:F:380:ARG:CB	2.84	0.41
1:G:160:ALA:O	1:G:161:PRO:C	2.64	0.41
1:G:160:ALA:O	1:G:166:GLU:HB2	2.21	0.41
1:G:268:SER:O	1:G:269:GLU:C	2.63	0.41
1:G:420:ALA:O	1:G:421:LYS:C	2.62	0.41
1:I:372:ILE:C	1:I:374:VAL:H	2.29	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:151:ASN:ND2	1:J:227:LEU:CD1	2.84	0.41
1:J:244:MET:HB2	1:J:339:PRO:CD	2.33	0.41
1:K:157:PHE:C	1:K:158:ASP:O	2.64	0.41
1:K:323:PRO:CB	1:K:331:ARG:CZ	2.98	0.41
1:L:27:ASP:OD2	1:L:31:THR:O	2.38	0.41
1:L:98:ASN:CB	1:L:99:PRO:CD	2.98	0.41
1:M:136:PHE:CD1	1:M:235:PRO:HG3	2.56	0.41
1:M:194:GLN:O	1:M:195:HIS:ND1	2.53	0.41
1:N:69:TYR:N	1:N:69:TYR:HD1	2.17	0.41
1:N:110:ASN:HD22	1:N:110:ASN:HA	1.65	0.41
1:N:168:CYS:O	1:N:172:ILE:HG12	2.20	0.41
1:N:215:LYS:HG2	1:N:231:PHE:CE2	2.56	0.41
1:N:425:TRP:C	1:N:427:MET:N	2.77	0.41
2:U:758:LYS:O	2:U:758:LYS:CE	2.61	0.41
1:A:18:VAL:HG22	1:A:79:ILE:CD1	2.50	0.41
1:A:19:LYS:CG	1:A:87:GLY:HA3	2.49	0.41
1:A:86:LYS:HD3	1:A:86:LYS:HA	1.38	0.41
1:A:232:MET:CE	1:C:440:TYR:HB2	2.43	0.41
1:A:392:LEU:O	1:A:396:LEU:CG	2.46	0.41
1:A:407:LYS:HE2	1:A:407:LYS:HB3	1.80	0.41
1:B:225:HIS:O	1:B:226:GLY:C	2.64	0.41
1:C:315:ASN:CG	1:C:316:ARG:H	2.29	0.41
1:D:27:ASP:OD1	1:D:33:LYS:HE3	2.21	0.41
1:D:176:LEU:O	1:D:181:PHE:HB2	2.19	0.41
1:F:96:ILE:C	1:F:97:TYR:HD1	2.28	0.41
1:G:68:MET:HE2	1:G:68:MET:HB2	1.92	0.41
1:G:302:GLY:CA	2:T:750:GLY:CA	2.73	0.41
1:G:377:LYS:O	1:G:377:LYS:HG3	2.19	0.41
1:G:423:ILE:HD13	1:G:423:ILE:HA	1.82	0.41
1:H:78:VAL:HG23	1:H:91:ARG:HH12	1.84	0.41
1:H:114:ARG:HD3	1:H:115:ILE:HD12	2.02	0.41
1:I:85:GLU:HB3	1:I:86:LYS:H	1.62	0.41
1:I:155:GLY:N	1:I:158:ASP:OD1	2.54	0.41
1:I:423:ILE:O	1:I:424:GLU:C	2.61	0.41
1:J:78:VAL:HB	1:J:91:ARG:NH1	2.35	0.41
1:J:295:SER:O	1:J:298:ARG:HB3	2.21	0.41
1:K:368:ILE:HG21	1:K:372:ILE:HG22	2.01	0.41
1:L:104:PHE:O	1:L:105:GLU:C	2.63	0.41
1:L:194:GLN:NE2	1:L:241:GLY:O	2.43	0.41
1:L:212:GLN:O	1:L:215:LYS:HB2	2.19	0.41
1:L:423:ILE:N	1:L:423:ILE:CD1	2.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:6:ARG:HG2	1:M:10:GLU:OE1	2.21	0.41
1:M:53:ASP:OD2	1:M:53:ASP:C	2.64	0.41
1:M:77:PHE:O	1:M:78:VAL:HG23	2.20	0.41
1:N:265:LEU:C	1:N:267:LEU:H	2.28	0.41
2:P:748:LEU:O	2:P:748:LEU:HD22	2.20	0.41
2:R:751:GLN:HG3	2:R:755:PHE:CZ	2.55	0.41
1:A:54:GLY:HA3	1:A:66:SER:O	2.20	0.41
1:A:274:PHE:HD1	1:A:358:ILE:HD11	1.85	0.41
1:A:443:GLN:OE1	2:Q:758:LYS:NZ	2.42	0.41
1:B:32:ILE:HD13	1:B:32:ILE:HA	1.90	0.41
1:B:376:SER:C	1:B:378:GLU:H	2.28	0.41
1:C:136:PHE:CE2	1:C:194:GLN:N	2.89	0.41
1:C:164:LEU:HD13	1:C:164:LEU:HA	1.62	0.41
1:C:252:LYS:O	1:C:253:ASN:CB	2.69	0.41
1:D:73:ASP:OD1	1:D:76:THR:HG23	2.20	0.41
1:D:220:THR:O	1:D:221:ILE:C	2.62	0.41
1:E:21:ILE:CD1	1:E:39:VAL:HA	2.51	0.41
1:E:124:PHE:CG	1:E:250:LEU:HD22	2.56	0.41
1:E:221:ILE:O	1:E:221:ILE:HG22	2.19	0.41
1:E:375:MET:HA	1:E:379:GLU:OE1	2.21	0.41
1:F:9:ILE:H	1:F:9:ILE:CD1	2.31	0.41
1:G:110:ASN:O	1:G:112:LEU:N	2.53	0.41
1:G:155:GLY:O	1:G:156:TYR:C	2.64	0.41
1:G:160:ALA:HB1	1:G:166:GLU:OE1	2.21	0.41
1:H:274:PHE:C	1:H:274:PHE:CD2	2.99	0.41
1:H:393:ALA:C	1:H:395:ALA:N	2.73	0.41
1:I:24:GLN:OE1	1:I:32:ILE:CD1	2.57	0.41
1:J:311:TRP:CE3	1:J:322:ILE:HD13	2.55	0.41
1:J:369:ASP:HB2	1:J:370:ARG:H	1.43	0.41
1:K:72:PRO:HB2	1:K:92:PHE:CD2	2.55	0.41
1:K:255:VAL:O	1:K:256:ASN:C	2.63	0.41
1:K:443:GLN:CB	1:K:444:TYR:HD2	2.30	0.41
1:L:9:ILE:HG21	1:L:92:PHE:CZ	2.55	0.41
1:L:38:PRO:O	1:L:39:VAL:C	2.63	0.41
1:L:152:ASP:OD2	1:L:152:ASP:C	2.64	0.41
1:L:222:ALA:CB	1:L:229:ALA:HB2	2.51	0.41
1:L:278:ILE:HD13	1:L:353:ALA:HB3	2.02	0.41
1:L:311:TRP:CZ3	1:L:322:ILE:HD12	2.56	0.41
1:M:42:LEU:HA	1:M:45:ALA:HB3	2.02	0.41
1:M:316:ARG:HG2	2:U:747:MET:HG2	2.03	0.41
1:N:164:LEU:C	1:N:168:CYS:HB2	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:191:ALA:HA	1:N:192:PRO:HD3	1.87	0.41
1:N:429:ARG:HG2	1:N:430:THR:N	2.34	0.41
1:A:56:SER:CB	1:F:157:PHE:CD1	3.03	0.41
1:A:160:ALA:HB2	1:A:188:HIS:CB	2.44	0.41
1:A:182:GLU:HG2	1:A:200:LYS:HD2	2.03	0.41
1:B:96:ILE:HD12	1:B:107:ASP:CB	2.38	0.41
1:B:126:ASP:O	1:B:251:PHE:HB2	2.20	0.41
1:B:146:PRO:CB	1:B:228:HIS:ND1	2.79	0.41
1:B:275:ILE:O	1:B:275:ILE:HG22	2.21	0.41
1:C:169:ARG:CZ	1:E:36:GLU:OE1	2.68	0.41
1:C:242:SER:O	1:C:298:ARG:NH1	2.54	0.41
1:C:295:SER:HG	1:C:338:ASP:CG	2.28	0.41
1:C:312:SER:O	1:C:322:ILE:HG12	2.21	0.41
1:D:60:PHE:CD2	2:Y:758:LYS:CG	3.03	0.41
1:D:156:TYR:CE1	1:D:157:PHE:CD1	3.08	0.41
1:D:176:LEU:HD23	1:D:217:VAL:HG11	2.03	0.41
1:D:373:TYR:C	1:D:375:MET:H	2.29	0.41
1:E:189:GLU:OE2	1:E:190:VAL:HG23	2.20	0.41
1:E:255:VAL:O	1:E:255:VAL:HG12	2.20	0.41
1:F:188:HIS:CE1	1:F:191:ALA:O	2.73	0.41
1:F:234:LYS:CB	1:F:297:LYS:O	2.69	0.41
1:F:246:CYS:SG	1:F:337:VAL:HG11	2.61	0.41
1:G:138:PHE:HE1	1:G:230:THR:CG2	2.33	0.41
1:G:199:PHE:O	1:G:200:LYS:C	2.63	0.41
1:H:13:VAL:O	1:H:17:ASN:HA	2.21	0.41
1:H:289:THR:O	1:H:291:PRO:HD3	2.20	0.41
1:I:48:ASN:OD1	1:I:71:TYR:CD1	2.74	0.41
1:I:105:GLU:O	1:I:413:LEU:HD12	2.21	0.41
1:J:97:TYR:C	1:J:98:ASN:O	2.64	0.41
1:J:335:ARG:HH11	3:J:501:GLN:HG2	1.86	0.41
1:K:49:LYS:HA	1:K:49:LYS:HD3	1.93	0.41
1:K:237:PHE:O	1:K:238:GLY:C	2.62	0.41
1:L:5:THR:O	1:L:9:ILE:CD1	2.69	0.41
1:L:63:ILE:C	1:L:64:GLU:CG	2.93	0.41
1:L:340:ALA:O	1:L:341:ALA:C	2.64	0.41
1:M:131:PRO:C	1:M:133:PRO:HD3	2.45	0.41
1:M:140:LEU:HD22	1:M:144:GLY:HA2	2.03	0.41
1:N:237:PHE:C	1:N:239:VAL:N	2.73	0.41
1:A:13:VAL:HG12	1:A:14:LYS:N	2.34	0.41
1:A:57:ILE:C	1:A:59:GLY:H	2.29	0.41
1:A:62:ARG:O	1:A:62:ARG:HG3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:71:TYR:HA	1:A:72:PRO:HD2	1.97	0.41
1:A:143:LYS:HE2	1:A:143:LYS:HB2	1.81	0.41
1:A:239:VAL:HG13	2:P:757:TYR:HE2	1.86	0.41
1:A:239:VAL:CG1	2:P:757:TYR:HE2	2.33	0.41
1:A:261:GLU:HA	1:A:266:GLN:OE1	2.21	0.41
1:A:322:ILE:O	1:A:322:ILE:HG22	2.21	0.41
1:B:19:LYS:HA	1:B:39:VAL:HG11	2.02	0.41
1:B:20:TYR:CE2	1:E:170:ARG:HG2	2.56	0.41
1:B:33:LYS:HD3	1:E:157:PHE:HB2	2.03	0.41
1:B:64:GLU:C	1:B:65:GLU:O	2.55	0.41
1:B:200:LYS:NZ	1:N:41:GLN:HE22	2.19	0.41
1:B:215:LYS:HG2	1:B:231:PHE:CE2	2.56	0.41
1:B:317:SER:OG	1:B:373:TYR:CE1	2.70	0.41
1:C:71:TYR:CE2	1:C:97:TYR:CE2	3.09	0.41
1:C:71:TYR:C	1:C:94:CYS:HB3	2.46	0.41
1:C:161:PRO:HG2	1:C:169:ARG:NH2	2.35	0.41
1:C:260:ASP:HB2	1:C:268:SER:HA	2.03	0.41
1:C:265:LEU:O	1:C:326:ARG:NH1	2.53	0.41
1:C:303:TYR:CD1	2:R:753:ALA:HB1	2.56	0.41
1:C:311:TRP:NE1	1:C:367:PRO:CA	2.84	0.41
1:C:311:TRP:HA	1:C:320:ILE:HB	2.02	0.41
1:C:377:LYS:O	1:C:377:LYS:HG2	2.20	0.41
1:C:377:LYS:HE2	1:C:381:MET:SD	2.61	0.41
1:D:127:PHE:HD1	1:D:250:LEU:HG	1.86	0.41
1:E:42:LEU:HD12	1:E:42:LEU:C	2.39	0.41
1:E:151:ASN:HD21	1:E:164:LEU:C	2.27	0.41
1:E:269:GLU:O	1:E:273:HIS:HD2	2.02	0.41
1:E:312:SER:OG	1:E:368:ILE:O	2.29	0.41
1:E:347:LEU:HA	1:E:347:LEU:HD13	1.87	0.41
1:E:399:PHE:HZ	1:E:409:LEU:CD1	2.32	0.41
1:F:70:LEU:HD12	1:F:70:LEU:HA	1.94	0.41
1:F:258:PHE:CG	1:F:271:ALA:HB2	2.55	0.41
1:F:342:ASN:O	1:F:343:PRO:C	2.63	0.41
1:G:22:ARG:NH1	1:G:34:ASN:HD21	2.19	0.41
1:G:46:LEU:C	1:G:48:ASN:H	2.29	0.41
1:G:286:THR:O	1:G:287:ALA:C	2.64	0.41
1:G:368:ILE:HD12	1:G:368:ILE:HA	1.82	0.41
1:H:53:ASP:OD2	1:H:55:SER:N	2.54	0.41
1:H:183:ILE:CD1	1:H:183:ILE:N	2.73	0.41
1:I:131:PRO:HD2	1:I:199:PHE:CE1	2.56	0.41
1:I:138:PHE:CE2	1:I:150:LEU:HD23	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:151:ASN:CG	1:I:227:LEU:CD1	2.93	0.41
1:I:233:PRO:O	1:I:242:SER:N	2.54	0.41
1:I:252:LYS:O	1:I:253:ASN:HB2	2.21	0.41
1:I:399:PHE:CE1	1:I:405:MET:CB	2.99	0.41
1:J:9:ILE:HG21	1:J:92:PHE:HZ	1.86	0.41
1:J:58:GLU:HB3	1:J:416:HIS:HD2	1.86	0.41
1:J:60:PHE:CB	2:U:758:LYS:HG3	2.37	0.41
1:J:89:VAL:HG12	1:J:90:ALA:H	1.84	0.41
1:J:133:PRO:HA	1:J:244:MET:HA	2.02	0.41
1:J:151:ASN:CG	1:J:151:ASN:O	2.64	0.41
1:J:200:LYS:HB2	1:J:201:TYR:HD2	1.86	0.41
1:J:304:GLU:HG3	1:J:316:ARG:HH12	1.86	0.41
1:J:340:ALA:HB1	1:K:444:TYR:CD1	2.56	0.41
1:K:51:MET:SD	1:K:69:TYR:CE1	3.14	0.41
1:K:238:GLY:O	1:K:239:VAL:HG22	2.20	0.41
1:K:248:LEU:O	1:K:332:VAL:N	2.53	0.41
1:K:323:PRO:CB	1:K:331:ARG:NH1	2.84	0.41
1:L:22:ARG:HG2	1:L:36:GLU:HB3	2.03	0.41
1:L:61:VAL:O	1:L:63:ILE:CD1	2.69	0.41
1:L:98:ASN:HB3	1:L:99:PRO:CD	2.50	0.41
1:L:167:ASN:ND2	1:L:170:ARG:NH1	2.69	0.41
1:L:264:ASP:C	1:L:266:GLN:N	2.77	0.41
1:L:375:MET:H	1:L:375:MET:HG2	1.44	0.41
1:L:428:PHE:CE1	1:L:433:HIS:NE2	2.86	0.41
1:M:19:LYS:HB2	1:M:87:GLY:HA3	2.02	0.41
1:M:32:ILE:HG23	1:M:32:ILE:O	2.20	0.41
1:M:60:PHE:CD1	2:T:755:PHE:CE2	3.09	0.41
1:M:62:ARG:HB2	2:T:754:HIS:HE1	1.86	0.41
1:M:116:LEU:HD22	1:M:119:MET:HE1	2.02	0.41
1:M:140:LEU:C	1:M:147:THR:HG23	2.45	0.41
1:M:203:GLY:N	1:M:206:ARG:HB3	2.36	0.41
1:M:240:ASN:ND2	1:M:241:GLY:N	2.65	0.41
1:M:355:LEU:C	1:M:357:GLY:N	2.79	0.41
1:M:368:ILE:HG21	1:M:372:ILE:CG2	2.50	0.41
1:N:37:ILE:HA	1:N:38:PRO:HD3	1.87	0.41
1:N:100:ASP:CG	1:N:102:THR:OG1	2.64	0.41
1:N:138:PHE:O	1:N:139:LYS:C	2.64	0.41
1:N:239:VAL:CG1	2:V:757:TYR:OH	2.64	0.41
1:N:250:LEU:HD12	1:N:274:PHE:CE1	2.55	0.41
1:N:360:ASN:HB2	1:N:362:LEU:HD13	2.03	0.41
2:R:746:LYS:C	2:R:748:LEU:N	2.72	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:757:TYR:CD1	2:S:757:TYR:N	2.86	0.41
2:U:754:HIS:HA	2:U:757:TYR:CE1	2.56	0.41
2:Z:753:ALA:O	2:Z:756:ARG:HG2	2.21	0.41
2:2:753:ALA:O	2:2:757:TYR:HE1	2.04	0.41
1:A:22:ARG:HG2	1:A:34:ASN:ND2	2.36	0.41
1:A:55:SER:HB3	1:A:64:GLU:O	2.20	0.41
1:A:234:LYS:NZ	1:A:238:GLY:H	2.19	0.41
1:B:338:ASP:O	1:B:341:ALA:HB3	2.21	0.41
1:B:418:ILE:HG23	1:B:422:GLU:OE1	2.21	0.41
1:C:5:THR:CG2	1:C:8:ASP:CG	2.94	0.41
1:C:112:LEU:HD22	1:C:116:LEU:HG	2.02	0.41
1:E:51:MET:CE	1:E:67:ASP:CB	2.98	0.41
1:E:85:GLU:HB2	1:E:86:LYS:H	1.64	0.41
1:E:153:LYS:HA	1:E:192:PRO:HB3	2.03	0.41
1:F:17:ASN:HD21	1:F:19:LYS:HZ1	1.68	0.41
1:F:129:LEU:CG	1:F:347:LEU:HD11	2.51	0.41
1:H:42:LEU:HD12	1:H:42:LEU:C	2.46	0.41
1:H:107:ASP:OD2	1:H:110:ASN:OD1	2.37	0.41
1:H:392:LEU:O	1:H:392:LEU:CG	2.68	0.41
1:I:2:ALA:HA	1:I:75:ASN:HD21	1.85	0.41
1:I:80:PHE:HA	1:I:81:PRO:HD3	1.67	0.41
1:I:105:GLU:CD	1:I:412:HIS:HB3	2.46	0.41
1:I:176:LEU:O	1:I:177:GLU:C	2.64	0.41
1:I:289:THR:HG22	1:I:346:ALA:HB1	2.03	0.41
1:J:274:PHE:O	1:J:275:ILE:C	2.64	0.41
1:K:285:PHE:C	1:K:285:PHE:CD1	2.99	0.41
1:L:208:CYS:HA	1:L:211:ILE:HD13	2.02	0.41
1:L:444:TYR:CE2	1:M:292:THR:HG21	2.52	0.41
1:M:24:GLN:OE1	1:M:32:ILE:CG1	2.69	0.41
1:M:156:TYR:CE1	1:M:157:PHE:HE1	2.39	0.41
1:M:206:ARG:O	1:M:206:ARG:HG3	2.20	0.41
1:M:375:MET:SD	1:M:380:ARG:HB2	2.60	0.41
1:N:100:ASP:OD1	1:N:102:THR:OG1	2.38	0.41
1:N:169:ARG:NE	1:N:195:HIS:ND1	2.69	0.41
1:N:372:ILE:H	1:N:372:ILE:HG13	1.57	0.41
2:O:748:LEU:O	2:O:748:LEU:HD22	2.21	0.41
2:P:751:GLN:O	2:P:754:HIS:CB	2.66	0.41
1:A:391:THR:C	1:A:393:ALA:H	2.28	0.40
1:B:71:TYR:HA	1:B:72:PRO:HD2	1.86	0.40
1:B:281:HIS:CE1	1:B:404:VAL:HG21	2.56	0.40
1:C:98:ASN:C	1:C:100:ASP:N	2.79	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:119:MET:CG	1:C:124:PHE:HB2	2.51	0.40
1:C:240:ASN:N	2:R:757:TYR:OH	2.53	0.40
1:D:143:LYS:C	1:D:145:GLU:N	2.77	0.40
1:D:170:ARG:O	1:D:173:VAL:N	2.54	0.40
1:E:75:ASN:C	1:E:77:PHE:N	2.79	0.40
1:E:190:VAL:HG11	2:W:754:HIS:CD2	2.56	0.40
1:E:316:ARG:CB	2:W:747:MET:HG2	2.51	0.40
1:E:377:LYS:CA	1:E:380:ARG:NH2	2.80	0.40
1:E:380:ARG:CB	1:E:380:ARG:NH1	2.84	0.40
1:E:403:GLU:OE1	1:E:407:LYS:NZ	2.46	0.40
1:E:440:TYR:CB	1:F:232:MET:HG3	2.51	0.40
1:F:244:MET:O	1:F:244:MET:HG2	2.21	0.40
1:F:380:ARG:NH1	1:F:380:ARG:HB2	2.36	0.40
1:G:23:LEU:HA	1:G:23:LEU:HD23	1.86	0.40
1:G:137:LEU:HD23	1:G:137:LEU:HA	1.91	0.40
1:G:230:THR:CG2	1:G:230:THR:O	2.68	0.40
1:G:255:VAL:HG23	1:G:256:ASN:O	2.20	0.40
1:G:277:GLY:HA2	1:G:362:LEU:HD23	2.02	0.40
1:H:182:GLU:OE1	1:H:200:LYS:HE3	2.20	0.40
1:H:372:ILE:H	1:H:372:ILE:HG13	1.53	0.40
1:I:189:GLU:OE1	1:I:196:GLU:OE1	2.40	0.40
1:I:302:GLY:HA2	2:Q:750:GLY:CA	2.51	0.40
1:J:359:LYS:HG2	1:J:360:ASN:N	2.35	0.40
1:J:375:MET:HB2	1:J:380:ARG:CG	2.51	0.40
1:J:405:MET:O	1:J:406:VAL:C	2.64	0.40
1:K:173:VAL:HG21	1:K:186:SER:OG	2.21	0.40
1:K:203:GLY:O	1:K:207:SER:HB2	2.22	0.40
1:K:322:ILE:CG1	1:K:332:VAL:HG12	2.50	0.40
1:L:57:ILE:C	1:L:59:GLY:H	2.29	0.40
1:L:205:VAL:O	1:L:206:ARG:C	2.61	0.40
1:L:308:TYR:HE2	1:L:380:ARG:NH1	2.19	0.40
1:L:376:SER:C	1:L:378:GLU:N	2.80	0.40
1:M:243:GLY:C	1:M:339:PRO:HD3	2.47	0.40
1:M:375:MET:HB2	1:M:376:SER:H	1.69	0.40
1:N:392:LEU:HD21	1:N:421:LYS:HB3	2.02	0.40
1:A:258:PHE:O	1:A:268:SER:N	2.50	0.40
1:A:303:TYR:CE1	2:P:753:ALA:HB2	2.56	0.40
1:A:304:GLU:HA	1:A:317:SER:OG	2.20	0.40
1:B:67:ASP:OD2	1:B:67:ASP:N	2.54	0.40
1:C:194:GLN:NE2	1:C:241:GLY:O	2.54	0.40
1:D:22:ARG:NH1	1:H:166:GLU:CD	2.78	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:55:SER:O	1:D:62:ARG:CG	2.69	0.40
1:D:429:ARG:NH1	1:D:429:ARG:CG	2.84	0.40
1:E:60:PHE:HD2	2:R:758:LYS:CG	2.22	0.40
1:E:212:GLN:O	1:E:213:THR:C	2.64	0.40
1:E:390:ALA:O	1:E:391:THR:CG2	2.69	0.40
1:F:83:THR:O	1:F:84:ALA:HB3	2.21	0.40
1:F:415:GLU:OE2	1:F:419:GLU:OE2	2.40	0.40
1:F:434:PRO:O	1:F:437:ARG:N	2.54	0.40
1:G:27:ASP:OD2	1:G:30:GLY:N	2.54	0.40
1:G:58:GLU:O	1:G:61:VAL:HG22	2.20	0.40
1:G:114:ARG:HG2	1:G:114:ARG:HH11	1.86	0.40
1:G:232:MET:HE1	1:I:436:GLU:C	2.46	0.40
1:H:121:ASP:N	1:H:121:ASP:OD1	2.54	0.40
1:H:264:ASP:OD1	1:H:264:ASP:N	2.53	0.40
1:H:272:LYS:HE3	1:H:364:ALA:HB1	2.02	0.40
1:H:414:PHE:CE1	1:H:418:ILE:HD11	2.57	0.40
1:H:438:GLU:HB3	1:H:439:GLN:H	1.76	0.40
1:I:31:THR:HG21	1:I:33:LYS:HE2	2.02	0.40
1:I:57:ILE:C	1:I:59:GLY:N	2.76	0.40
1:I:76:THR:O	1:I:77:PHE:C	2.64	0.40
1:I:78:VAL:HB	1:I:91:ARG:NH1	2.36	0.40
1:I:176:LEU:C	1:I:178:GLU:N	2.78	0.40
1:I:278:ILE:O	1:I:278:ILE:CG2	2.69	0.40
1:I:351:LEU:O	1:I:355:LEU:HG	2.21	0.40
1:J:415:GLU:CG	1:J:416:HIS:ND1	2.84	0.40
1:J:435:TRP:HZ2	1:K:427:MET:HB3	1.85	0.40
1:K:32:ILE:HG23	1:K:32:ILE:O	2.22	0.40
1:K:303:TYR:CE1	2:1:753:ALA:HB2	2.52	0.40
1:K:435:TRP:CE3	1:K:435:TRP:C	2.99	0.40
1:L:21:ILE:N	1:L:21:ILE:CD1	2.83	0.40
1:L:25:PHE:N	1:L:25:PHE:HD2	2.17	0.40
1:L:71:TYR:HA	1:L:72:PRO:HD2	2.00	0.40
1:L:265:LEU:O	1:L:266:GLN:C	2.62	0.40
1:L:279:VAL:HG12	1:L:309:VAL:CG1	2.51	0.40
1:L:368:ILE:HA	1:L:370:ARG:HH12	1.86	0.40
1:L:411:GLU:OE2	1:L:411:GLU:HA	2.21	0.40
1:M:79:ILE:O	1:M:81:PRO:HD3	2.21	0.40
1:M:260:ASP:HB2	1:M:268:SER:CA	2.52	0.40
1:M:281:HIS:N	1:M:281:HIS:CD2	2.87	0.40
1:N:231:PHE:O	1:N:339:PRO:CG	2.68	0.40
1:N:265:LEU:O	1:N:267:LEU:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:289:THR:HB	1:N:337:VAL:HG22	2.03	0.40
1:N:377:LYS:CB	1:N:380:ARG:NH1	2.84	0.40
2:Q:747:MET:O	2:Q:748:LEU:C	2.65	0.40
1:A:171:ASP:O	1:A:175:GLU:HB2	2.21	0.40
1:A:411:GLU:O	1:A:415:GLU:HG3	2.21	0.40
1:B:119:MET:HE1	1:B:127:PHE:H	1.86	0.40
1:B:260:ASP:OD2	1:B:263:ALA:HB2	2.22	0.40
1:B:260:ASP:CB	1:B:268:SER:HA	2.45	0.40
1:C:63:ILE:HG23	2:Q:747:MET:CE	2.50	0.40
1:C:296:TYR:CD1	1:C:296:TYR:N	2.90	0.40
1:D:136:PHE:CE2	1:D:194:GLN:CB	3.05	0.40
1:D:287:ALA:HB2	1:D:395:ALA:HB1	2.02	0.40
1:D:347:LEU:HA	1:D:347:LEU:HD12	1.89	0.40
1:E:32:ILE:C	1:E:32:ILE:HD13	2.47	0.40
1:E:239:VAL:HG23	2:W:757:TYR:CZ	2.56	0.40
1:E:281:HIS:CE1	1:E:404:VAL:CG1	2.91	0.40
1:E:299:LEU:N	1:E:299:LEU:HD13	2.36	0.40
1:E:301:PRO:CA	1:E:307:CYS:SG	3.09	0.40
1:E:301:PRO:N	1:E:307:CYS:SG	2.94	0.40
1:E:302:GLY:C	2:W:750:GLY:HA2	2.47	0.40
1:F:25:PHE:CD2	1:F:25:PHE:N	2.89	0.40
1:F:129:LEU:HD12	1:F:347:LEU:CD1	2.38	0.40
1:F:307:CYS:O	1:F:308:TYR:CD2	2.75	0.40
1:G:111:ASN:O	1:G:114:ARG:HB3	2.21	0.40
1:G:134:GLU:OE2	1:G:189:GLU:CD	2.65	0.40
1:G:418:ILE:O	1:G:419:GLU:C	2.65	0.40
1:H:32:ILE:HD13	1:J:159:LEU:HD13	2.03	0.40
1:H:241:GLY:O	3:H:501:GLN:C	2.64	0.40
1:H:261:GLU:CD	1:H:261:GLU:N	2.80	0.40
1:H:272:LYS:NZ	1:H:311:TRP:HH2	2.20	0.40
1:I:61:VAL:HG11	1:I:419:GLU:HG2	2.02	0.40
1:J:219:LYS:NZ	1:K:444:TYR:O	2.45	0.40
1:K:104:PHE:C	1:K:106:GLY:N	2.79	0.40
1:K:112:LEU:O	1:K:116:LEU:HG	2.20	0.40
1:K:368:ILE:CD1	1:K:385:ILE:HG23	2.51	0.40
1:L:129:LEU:HD23	1:L:131:PRO:HG3	1.98	0.40
1:M:24:GLN:O	1:M:93:ILE:HA	2.22	0.40
1:M:52:PHE:CD1	1:M:70:LEU:HD13	2.54	0.40
1:M:299:LEU:CD1	1:M:306:PRO:O	2.69	0.40
1:M:418:ILE:HG22	1:M:422:GLU:CD	2.46	0.40
1:N:11:LYS:NZ	1:N:15:GLU:OE1	2.53	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:405:MET:HA	1:N:405:MET:CE	2.52	0.40
2:U:754:HIS:HA	2:U:757:TYR:HE1	1.87	0.40
1:A:60:PHE:CE1	1:A:61:VAL:HG13	2.56	0.40
1:A:112:LEU:O	1:A:116:LEU:HG	2.21	0.40
1:B:156:TYR:HE1	1:B:189:GLU:OE2	2.04	0.40
1:B:244:MET:CE	1:B:339:PRO:HA	2.51	0.40
1:C:209:ASP:C	1:C:211:ILE:N	2.79	0.40
1:D:187:HIS:CD2	1:D:196:GLU:HB3	2.55	0.40
1:E:55:SER:C	1:E:57:ILE:N	2.78	0.40
1:F:9:ILE:HD13	1:F:74:LEU:HD12	2.03	0.40
1:G:396:LEU:C	1:G:400:LYS:HE2	2.46	0.40
1:H:137:LEU:CD2	1:H:229:ALA:HB2	2.52	0.40
1:H:170:ARG:O	1:H:171:ASP:C	2.64	0.40
1:H:316:ARG:HB3	1:H:317:SER:H	1.54	0.40
1:H:331:ARG:HD3	1:H:331:ARG:N	2.36	0.40
1:H:348:SER:O	1:H:352:ALA:HB2	2.21	0.40
1:H:409:LEU:HB3	1:H:413:LEU:HB2	2.04	0.40
1:I:63:ILE:CG2	2:S:747:MET:CE	2.99	0.40
1:J:205:VAL:O	1:J:205:VAL:CG2	2.60	0.40
1:J:417:PHE:CZ	1:J:421:LYS:HG3	2.56	0.40
1:K:91:ARG:CD	1:K:91:ARG:C	2.94	0.40
1:K:183:ILE:C	1:K:183:ILE:HD13	2.47	0.40
1:K:341:ALA:O	1:K:343:PRO:CD	2.68	0.40
1:L:69:TYR:CB	1:L:71:TYR:CE1	3.03	0.40
1:L:264:ASP:C	1:L:266:GLN:H	2.30	0.40
1:L:368:ILE:HD12	1:L:370:ARG:HH22	1.87	0.40
1:L:390:ALA:O	1:L:391:THR:HG23	2.22	0.40
1:M:26:THR:HG23	1:M:31:THR:O	2.21	0.40
1:M:39:VAL:O	1:M:39:VAL:CG2	2.70	0.40
1:M:208:CYS:O	1:M:209:ASP:C	2.65	0.40
1:N:136:PHE:CD2	1:N:194:GLN:HA	2.56	0.40
1:N:139:LYS:HB2	1:N:149:GLU:O	2.22	0.40
1:A:76:THR:O	1:A:77:PHE:C	2.64	0.40
1:A:244:MET:HB2	1:A:339:PRO:HD3	2.03	0.40
1:A:270:THR:O	1:A:273:HIS:HB2	2.22	0.40
1:A:302:GLY:C	1:A:304:GLU:N	2.78	0.40
1:A:303:TYR:CE1	2:P:753:ALA:CB	3.04	0.40
1:A:307:CYS:O	1:A:388:LEU:HG	2.21	0.40
1:A:351:LEU:HD11	1:A:355:LEU:HG	2.04	0.40
1:B:116:LEU:HD23	1:B:351:LEU:HD21	2.02	0.40
1:B:152:ASP:OD2	1:B:152:ASP:C	2.64	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:186:SER:HB3	1:B:196:GLU:O	2.21	0.40
1:B:337:VAL:HG12	1:B:338:ASP:N	2.35	0.40
1:B:424:GLU:O	1:B:425:TRP:C	2.64	0.40
1:C:14:LYS:O	1:C:16:GLU:N	2.54	0.40
1:C:60:PHE:CD2	2:Q:758:LYS:HB3	2.56	0.40
1:C:105:GLU:H	1:C:105:GLU:CD	2.30	0.40
1:C:142:GLU:H	1:C:142:GLU:HG3	1.49	0.40
1:C:157:PHE:O	1:E:33:LYS:CB	2.56	0.40
1:C:291:PRO:HB2	1:C:421:LYS:NZ	2.37	0.40
1:C:323:PRO:O	1:C:326:ARG:NH2	2.55	0.40
1:D:413:LEU:HD23	1:D:413:LEU:HA	1.86	0.40
1:E:83:THR:CA	1:E:85:GLU:OE2	2.70	0.40
1:E:206:ARG:O	1:E:210:ASP:OD2	2.40	0.40
1:F:28:ILE:C	1:F:30:GLY:N	2.79	0.40
1:F:81:PRO:C	1:F:83:THR:N	2.79	0.40
1:F:84:ALA:HB2	1:F:88:LYS:HE3	2.03	0.40
1:F:302:GLY:HA3	2:O:750:GLY:CA	2.51	0.40
1:F:443:GLN:CD	2:R:758:LYS:HZ1	2.30	0.40
1:G:156:TYR:CD2	1:G:157:PHE:CD1	3.04	0.40
1:G:189:GLU:O	1:G:194:GLN:HB3	2.21	0.40
1:G:292:THR:O	1:G:295:SER:HB2	2.21	0.40
1:G:322:ILE:N	1:G:322:ILE:CD1	2.84	0.40
1:G:335:ARG:NH2	1:G:335:ARG:CB	2.84	0.40
1:G:351:LEU:O	1:G:351:LEU:HG	2.20	0.40
1:H:11:LYS:HG2	1:H:15:GLU:OE1	2.22	0.40
1:H:140:LEU:HD12	1:H:226:GLY:C	2.47	0.40
1:H:141:ASP:OD2	1:H:141:ASP:C	2.64	0.40
1:I:28:ILE:HD13	1:I:28:ILE:O	2.21	0.40
1:I:135:PHE:O	1:I:135:PHE:CG	2.75	0.40
1:I:402:ASN:OD1	1:I:404:VAL:HG13	2.21	0.40
1:J:72:PRO:HB2	1:J:92:PHE:HD2	1.86	0.40
1:J:232:MET:O	1:J:235:PRO:HD3	2.21	0.40
1:J:281:HIS:NE2	1:J:356:ASP:OD2	2.53	0.40
1:K:91:ARG:CZ	1:K:93:ILE:HD11	2.51	0.40
1:K:329:SER:O	1:K:330:THR:O	2.40	0.40
1:L:114:ARG:NH1	1:L:407:LYS:O	2.54	0.40
1:L:117:LYS:HA	1:L:120:GLU:CG	2.47	0.40
1:L:127:PHE:HE2	1:L:347:LEU:CD2	2.35	0.40
1:L:173:VAL:HG12	1:L:174:LEU:N	2.36	0.40
1:L:191:ALA:CB	2:S:757:TYR:CE2	3.03	0.40
1:L:223:ARG:O	1:L:226:GLY:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:286:THR:HB	1:L:389:PRO:HG2	2.02	0.40
1:L:376:SER:CB	1:L:378:GLU:OE1	2.70	0.40
1:M:5:THR:O	1:M:8:ASP:N	2.53	0.40
1:M:112:LEU:HD13	1:M:116:LEU:CD1	2.51	0.40
1:M:137:LEU:HD23	1:M:229:ALA:CA	2.50	0.40
1:M:249:SER:HB3	1:M:331:ARG:HA	2.03	0.40
1:M:309:VAL:O	1:M:309:VAL:HG23	2.21	0.40
1:N:80:PHE:CD1	1:N:89:VAL:HG12	2.57	0.40
1:N:175:GLU:O	1:N:176:LEU:C	2.64	0.40
1:N:239:VAL:HG22	2:V:757:TYR:CE2	2.56	0.40
1:N:239:VAL:CB	2:V:757:TYR:OH	2.69	0.40
1:N:268:SER:HB2	1:N:269:GLU:H	1.71	0.40
2:S:753:ALA:HA	2:S:756:ARG:HD2	2.02	0.40
2:U:758:LYS:HA	2:U:758:LYS:HD2	1.81	0.40
2:2:748:LEU:HA	2:2:751:GLN:OE1	2.22	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	441/447 (99%)	330 (75%)	96 (22%)	15 (3%)	3	23
1	B	441/447 (99%)	338 (77%)	80 (18%)	23 (5%)	1	14
1	C	441/447 (99%)	325 (74%)	91 (21%)	25 (6%)	1	13
1	D	445/447 (100%)	333 (75%)	84 (19%)	28 (6%)	1	12
1	E	441/447 (99%)	331 (75%)	93 (21%)	17 (4%)	2	20
1	F	441/447 (99%)	335 (76%)	92 (21%)	14 (3%)	3	24
1	G	441/447 (99%)	327 (74%)	83 (19%)	31 (7%)	1	10
1	H	441/447 (99%)	335 (76%)	83 (19%)	23 (5%)	1	14

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	I	441/447 (99%)	333 (76%)	78 (18%)	30 (7%)	1	10
1	J	441/447 (99%)	338 (77%)	83 (19%)	20 (4%)	2	17
1	K	441/447 (99%)	339 (77%)	85 (19%)	17 (4%)	2	20
1	L	441/447 (99%)	340 (77%)	83 (19%)	18 (4%)	2	19
1	M	441/447 (99%)	336 (76%)	89 (20%)	16 (4%)	2	22
1	N	441/447 (99%)	317 (72%)	94 (21%)	30 (7%)	1	10
2	1	13/15 (87%)	12 (92%)	0	1 (8%)	1	8
2	2	13/15 (87%)	12 (92%)	1 (8%)	0	100	100
2	O	13/15 (87%)	12 (92%)	1 (8%)	0	100	100
2	P	13/15 (87%)	11 (85%)	1 (8%)	1 (8%)	1	8
2	Q	13/15 (87%)	10 (77%)	3 (23%)	0	100	100
2	R	13/15 (87%)	12 (92%)	1 (8%)	0	100	100
2	S	13/15 (87%)	10 (77%)	3 (23%)	0	100	100
2	T	13/15 (87%)	12 (92%)	1 (8%)	0	100	100
2	U	13/15 (87%)	8 (62%)	5 (38%)	0	100	100
2	V	13/15 (87%)	11 (85%)	2 (15%)	0	100	100
2	W	13/15 (87%)	11 (85%)	1 (8%)	1 (8%)	1	8
2	X	13/15 (87%)	8 (62%)	5 (38%)	0	100	100
2	Y	13/15 (87%)	9 (69%)	4 (31%)	0	100	100
2	Z	13/15 (87%)	13 (100%)	0	0	100	100
All	All	6360/6468 (98%)	4808 (76%)	1242 (20%)	310 (5%)	1	16

All (310) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	161	PRO
1	A	371	ASN
1	B	86	LYS
1	B	161	PRO
1	B	162	THR
1	B	163	ASP
1	B	314	GLN
1	B	370	ARG
1	B	384	GLY
1	C	38	PRO

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Mol	Chain	Res	Type
1	C	84	ALA
1	C	86	LYS
1	C	160	ALA
1	C	161	PRO
1	C	162	THR
1	C	163	ASP
1	C	304	GLU
1	C	371	ASN
1	D	2	ALA
1	D	65	GLU
1	D	82	TRP
1	D	84	ALA
1	D	161	PRO
1	D	164	LEU
1	D	179	MET
1	D	315	ASN
1	D	371	ASN
1	E	88	LYS
1	E	303	TYR
1	E	314	GLN
1	E	376	SER
1	F	86	LYS
1	F	161	PRO
1	F	314	GLN
1	F	316	ARG
1	G	86	LYS
1	G	156	TYR
1	G	158	ASP
1	G	161	PRO
1	G	162	THR
1	G	184	GLU
1	G	190	VAL
1	G	303	TYR
1	G	304	GLU
1	G	324	ALA
1	G	384	GLY
1	G	389	PRO
1	H	162	THR
1	H	163	ASP
1	H	179	MET
1	H	253	ASN
1	H	316	ARG

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Mol	Chain	Res	Type
1	H	325	SER
1	I	83	THR
1	I	159	LEU
1	I	160	ALA
1	I	161	PRO
1	I	240	ASN
1	I	314	GLN
1	I	371	ASN
1	J	84	ALA
1	J	142	GLU
1	J	150	LEU
1	J	160	ALA
1	J	161	PRO
1	J	162	THR
1	J	201	TYR
1	J	314	GLN
1	J	323	PRO
1	K	131	PRO
1	K	158	ASP
1	K	162	THR
1	K	240	ASN
1	K	261	GLU
1	K	314	GLN
1	L	84	ALA
1	L	101	GLY
1	L	162	THR
1	L	163	ASP
1	L	201	TYR
1	L	260	ASP
1	M	83	THR
1	M	99	PRO
1	M	101	GLY
1	M	162	THR
1	M	303	TYR
1	M	375	MET
1	N	82	TRP
1	N	83	THR
1	N	161	PRO
1	N	162	THR
1	N	201	TYR
1	N	261	GLU
1	N	268	SER

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Mol	Chain	Res	Type
1	N	303	TYR
1	N	314	GLN
1	N	324	ALA
1	N	411	GLU
2	P	747	MET
1	A	253	ASN
1	A	303	TYR
1	A	361	LYS
1	B	84	ALA
1	B	200	LYS
1	B	266	GLN
1	B	361	LYS
1	B	371	ASN
1	B	375	MET
1	C	82	TRP
1	C	253	ASN
1	C	261	GLU
1	C	262	ASN
1	C	315	ASN
1	C	339	PRO
1	C	403	GLU
1	D	167	ASN
1	D	170	ARG
1	D	171	ASP
1	D	316	ARG
1	D	370	ARG
1	E	10	GLU
1	E	163	ASP
1	G	84	ALA
1	G	180	GLY
1	G	252	LYS
1	G	261	GLU
1	G	325	SER
1	G	341	ALA
1	H	185	ALA
1	H	324	ALA
1	H	361	LYS
1	H	387	ASP
1	I	17	ASN
1	I	56	SER
1	I	85	GLU
1	I	111	ASN

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Mol	Chain	Res	Type
1	I	152	ASP
1	I	181	PHE
1	I	185	ALA
1	I	316	ARG
1	J	58	GLU
1	J	143	LYS
1	J	204	ALA
1	J	261	GLU
1	K	17	ASN
1	K	85	GLU
1	K	156	TYR
1	K	303	TYR
1	K	371	ASN
1	L	3	LYS
1	L	104	PHE
1	L	142	GLU
1	L	240	ASN
1	L	265	LEU
1	M	125	SER
1	M	370	ARG
1	M	376	SER
1	M	411	GLU
1	N	74	LEU
1	N	85	GLU
1	N	141	ASP
1	N	264	ASP
1	N	266	GLN
1	N	384	GLY
1	N	410	GLY
2	1	752	ASN
1	A	17	ASN
1	A	85	GLU
1	A	166	GLU
1	B	8	ASP
1	B	17	ASN
1	B	240	ASN
1	B	257	ALA
1	C	233	PRO
1	D	253	ASN
1	D	254	GLY
1	D	387	ASP
1	D	396	LEU

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Mol	Chain	Res	Type
1	D	431	GLN
1	E	253	ASN
1	E	370	ARG
1	E	411	GLU
1	F	39	VAL
1	F	304	GLU
1	F	389	PRO
1	G	327	GLY
1	H	83	THR
1	H	139	LYS
1	H	187	HIS
1	H	384	GLY
1	I	13	VAL
1	I	156	TYR
1	I	179	MET
1	I	190	VAL
1	J	27	ASP
1	J	98	ASN
1	J	192	PRO
1	J	202	ALA
1	K	325	SER
1	K	370	ARG
1	K	441	MET
1	L	39	VAL
1	L	131	PRO
1	L	161	PRO
1	M	239	VAL
1	M	256	ASN
1	N	60	PHE
1	N	233	PRO
2	W	758	LYS
1	A	410	GLY
1	C	65	GLU
1	D	158	ASP
1	D	173	VAL
1	D	323	PRO
1	E	316	ARG
1	F	83	THR
1	F	85	GLU
1	F	185	ALA
1	F	233	PRO
1	F	339	PRO

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Mol	Chain	Res	Type
1	G	9	ILE
1	G	17	ASN
1	G	83	THR
1	G	159	LEU
1	G	200	LYS
1	G	346	ALA
1	G	414	PHE
1	H	48	ASN
1	H	84	ALA
1	H	188	HIS
1	I	3	LYS
1	I	151	ASN
1	J	167	ASN
1	K	83	THR
1	K	411	GLU
1	L	160	ALA
1	N	235	PRO
1	N	414	PHE
1	A	179	MET
1	A	252	LYS
1	B	160	ALA
1	B	192	PRO
1	C	60	PHE
1	C	194	GLN
1	C	343	PRO
1	C	412	HIS
1	C	413	LEU
1	D	361	LYS
1	D	374	VAL
1	E	204	ALA
1	E	339	PRO
1	E	343	PRO
1	F	171	ASP
1	F	411	GLU
1	H	109	ARG
1	I	58	GLU
1	J	144	GLY
1	L	156	TYR
1	M	160	ALA
1	M	224	LYS
1	M	265	LEU
1	N	98	ASN

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Mol	Chain	Res	Type
1	N	156	TYR
1	N	352	ALA
1	B	261	GLU
1	B	332	VAL
1	C	414	PHE
1	D	406	VAL
1	G	240	ASN
1	H	100	ASP
1	H	339	PRO
1	H	365	PRO
1	H	401	SER
1	I	63	ILE
1	I	392	LEU
1	J	131	PRO
1	K	99	PRO
1	L	204	ALA
1	M	174	LEU
1	N	339	PRO
1	B	343	PRO
1	C	81	PRO
1	E	39	VAL
1	G	101	GLY
1	I	365	PRO
1	A	81	PRO
1	A	192	PRO
1	G	192	PRO
1	G	337	VAL
1	I	81	PRO
1	A	339	PRO
1	D	365	PRO
1	D	434	PRO
1	E	9	ILE
1	G	131	PRO
1	H	337	VAL
1	I	343	PRO
1	N	160	ALA
1	A	99	PRO
1	B	226	GLY
1	D	81	PRO
1	E	81	PRO
1	E	101	GLY
1	I	123	GLY

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Mol	Chain	Res	Type
1	I	342	ASN
1	I	367	PRO
1	L	339	PRO
1	N	81	PRO
1	N	108	PRO
1	N	318	PRO

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	382/385 (99%)	312 (82%)	70 (18%)	2	10
1	B	382/385 (99%)	306 (80%)	76 (20%)	1	7
1	C	382/385 (99%)	309 (81%)	73 (19%)	1	8
1	D	385/385 (100%)	307 (80%)	78 (20%)	1	7
1	E	382/385 (99%)	297 (78%)	85 (22%)	1	5
1	F	382/385 (99%)	309 (81%)	73 (19%)	1	8
1	G	382/385 (99%)	304 (80%)	78 (20%)	1	7
1	H	382/385 (99%)	298 (78%)	84 (22%)	1	5
1	I	382/385 (99%)	304 (80%)	78 (20%)	1	7
1	J	382/385 (99%)	305 (80%)	77 (20%)	1	7
1	K	382/385 (99%)	312 (82%)	70 (18%)	2	10
1	L	382/385 (99%)	302 (79%)	80 (21%)	1	6
1	M	382/385 (99%)	310 (81%)	72 (19%)	1	9
1	N	382/385 (99%)	311 (81%)	71 (19%)	1	9
2	1	13/13 (100%)	10 (77%)	3 (23%)	1	5
2	2	13/13 (100%)	10 (77%)	3 (23%)	1	5
2	O	13/13 (100%)	12 (92%)	1 (8%)	12	37
2	P	13/13 (100%)	12 (92%)	1 (8%)	12	37
2	Q	13/13 (100%)	8 (62%)	5 (38%)	0	1

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	R	13/13 (100%)	8 (62%)	5 (38%)	0	1
2	S	13/13 (100%)	11 (85%)	2 (15%)	2	16
2	T	13/13 (100%)	10 (77%)	3 (23%)	1	5
2	U	13/13 (100%)	8 (62%)	5 (38%)	0	1
2	V	13/13 (100%)	12 (92%)	1 (8%)	12	37
2	W	13/13 (100%)	9 (69%)	4 (31%)	0	2
2	X	13/13 (100%)	12 (92%)	1 (8%)	12	37
2	Y	13/13 (100%)	9 (69%)	4 (31%)	0	2
2	Z	13/13 (100%)	10 (77%)	3 (23%)	1	5
All	All	5533/5572 (99%)	4427 (80%)	1106 (20%)	1	7

All (1106) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	13	VAL
1	A	28	ILE
1	A	35	VAL
1	A	36	GLU
1	A	37	ILE
1	A	40	SER
1	A	65	GLU
1	A	71	TYR
1	A	74	LEU
1	A	79	ILE
1	A	82	TRP
1	A	85	GLU
1	A	86	LYS
1	A	91	ARG
1	A	105	GLU
1	A	107	ASP
1	A	109	ARG
1	A	112	LEU
1	A	114	ARG
1	A	122	LEU
1	A	126	ASP
1	A	141	ASP
1	A	142	GLU
1	A	143	LYS
1	A	145	GLU

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Mol	Chain	Res	Type
1	A	151	ASN
1	A	152	ASP
1	A	156	TYR
1	A	159	LEU
1	A	161	PRO
1	A	164	LEU
1	A	166	GLU
1	A	168	CYS
1	A	171	ASP
1	A	174	LEU
1	A	178	GLU
1	A	183	ILE
1	A	184	GLU
1	A	192	PRO
1	A	199	PHE
1	A	205	VAL
1	A	207	SER
1	A	220	THR
1	A	240	ASN
1	A	244	MET
1	A	249	SER
1	A	252	LYS
1	A	261	GLU
1	A	264	ASP
1	A	288	VAL
1	A	291	PRO
1	A	304	GLU
1	A	308	TYR
1	A	314	GLN
1	A	316	ARG
1	A	323	PRO
1	A	328	ILE
1	A	335	ARG
1	A	337	VAL
1	A	347	LEU
1	A	362	LEU
1	A	363	GLU
1	A	370	ARG
1	A	372	ILE
1	A	374	VAL
1	A	378	GLU
1	A	403	GLU

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Mol	Chain	Res	Type
1	A	407	LYS
1	A	441	MET
1	A	443	GLN
1	B	3	LYS
1	B	9	ILE
1	B	21	ILE
1	B	29	LEU
1	B	32	ILE
1	B	36	GLU
1	B	39	VAL
1	B	57	ILE
1	B	61	VAL
1	B	67	ASP
1	B	71	TYR
1	B	82	TRP
1	B	86	LYS
1	B	89	VAL
1	B	100	ASP
1	B	102	THR
1	B	105	GLU
1	B	107	ASP
1	B	112	LEU
1	B	118	GLU
1	B	119	MET
1	B	122	LEU
1	B	124	PHE
1	B	125	SER
1	B	129	LEU
1	B	140	LEU
1	B	142	GLU
1	B	147	THR
1	B	151	ASN
1	B	153	LYS
1	B	159	LEU
1	B	161	PRO
1	B	162	THR
1	B	171	ASP
1	B	190	VAL
1	B	198	ASP
1	B	199	PHE
1	B	205	VAL
1	B	237	PHE

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Mol	Chain	Res	Type
1	B	239	VAL
1	B	244	MET
1	B	248	LEU
1	B	252	LYS
1	B	264	ASP
1	B	278	ILE
1	B	284	SER
1	B	286	THR
1	B	288	VAL
1	B	292	THR
1	B	295	SER
1	B	300	VAL
1	B	304	GLU
1	B	308	TYR
1	B	315	ASN
1	B	319	LEU
1	B	329	SER
1	B	331	ARG
1	B	335	ARG
1	B	344	TYR
1	B	347	LEU
1	B	362	LEU
1	B	370	ARG
1	B	373	TYR
1	B	374	VAL
1	B	376	SER
1	B	381	MET
1	B	383	ASN
1	B	385	ILE
1	B	386	VAL
1	B	387	ASP
1	B	401	SER
1	B	404	VAL
1	B	405	MET
1	B	429	ARG
1	B	430	THR
1	B	442	SER
1	C	6	ARG
1	C	7	GLU
1	C	26	THR
1	C	28	ILE
1	C	34	ASN

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Mol	Chain	Res	Type
1	C	36	GLU
1	C	39	VAL
1	C	40	SER
1	C	46	LEU
1	C	56	SER
1	C	57	ILE
1	C	61	VAL
1	C	64	GLU
1	C	68	MET
1	C	70	LEU
1	C	82	TRP
1	C	85	GLU
1	C	91	ARG
1	C	94	CYS
1	C	100	ASP
1	C	105	GLU
1	C	112	LEU
1	C	113	LYS
1	C	119	MET
1	C	122	LEU
1	C	125	SER
1	C	129	LEU
1	C	142	GLU
1	C	147	THR
1	C	151	ASN
1	C	158	ASP
1	C	161	PRO
1	C	162	THR
1	C	166	GLU
1	C	167	ASN
1	C	170	ARG
1	C	189	GLU
1	C	190	VAL
1	C	201	TYR
1	C	205	VAL
1	C	206	ARG
1	C	207	SER
1	C	218	VAL
1	C	220	THR
1	C	224	LYS
1	C	233	PRO
1	C	239	VAL

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Mol	Chain	Res	Type
1	C	249	SER
1	C	251	PHE
1	C	252	LYS
1	C	260	ASP
1	C	262	ASN
1	C	265	LEU
1	C	266	GLN
1	C	288	VAL
1	C	303	TYR
1	C	312	SER
1	C	316	ARG
1	C	326	ARG
1	C	328	ILE
1	C	329	SER
1	C	336	SER
1	C	343	PRO
1	C	359	LYS
1	C	362	LEU
1	C	363	GLU
1	C	372	ILE
1	C	381	MET
1	C	386	VAL
1	C	388	LEU
1	C	411	GLU
1	C	415	GLU
1	C	442	SER
1	D	1	MET
1	D	5	THR
1	D	8	ASP
1	D	14	LYS
1	D	18	VAL
1	D	19	LYS
1	D	22	ARG
1	D	28	ILE
1	D	29	LEU
1	D	32	ILE
1	D	34	ASN
1	D	35	VAL
1	D	36	GLU
1	D	46	LEU
1	D	47	ASP
1	D	52	PHE

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Mol	Chain	Res	Type
1	D	56	SER
1	D	57	ILE
1	D	62	ARG
1	D	68	MET
1	D	70	LEU
1	D	82	TRP
1	D	85	GLU
1	D	86	LYS
1	D	91	ARG
1	D	94	CYS
1	D	102	THR
1	D	110	ASN
1	D	111	ASN
1	D	112	LEU
1	D	117	LYS
1	D	129	LEU
1	D	164	LEU
1	D	167	ASN
1	D	169	ARG
1	D	178	GLU
1	D	184	GLU
1	D	189	GLU
1	D	190	VAL
1	D	192	PRO
1	D	199	PHE
1	D	200	LYS
1	D	207	SER
1	D	215	LYS
1	D	223	ARG
1	D	233	PRO
1	D	234	LYS
1	D	246	CYS
1	D	252	LYS
1	D	255	VAL
1	D	260	ASP
1	D	261	GLU
1	D	265	LEU
1	D	266	GLN
1	D	283	THR
1	D	284	SER
1	D	289	THR
1	D	299	LEU

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Mol	Chain	Res	Type
1	D	312	SER
1	D	316	ARG
1	D	322	ILE
1	D	328	ILE
1	D	329	SER
1	D	343	PRO
1	D	359	LYS
1	D	362	LEU
1	D	363	GLU
1	D	371	ASN
1	D	372	ILE
1	D	373	TYR
1	D	376	SER
1	D	381	MET
1	D	404	VAL
1	D	407	LYS
1	D	418	ILE
1	D	426	ASP
1	D	429	ARG
1	D	441	MET
1	E	5	THR
1	E	7	GLU
1	E	14	LYS
1	E	18	VAL
1	E	27	ASP
1	E	28	ILE
1	E	32	ILE
1	E	34	ASN
1	E	35	VAL
1	E	38	PRO
1	E	44	LYS
1	E	51	MET
1	E	57	ILE
1	E	58	GLU
1	E	64	GLU
1	E	66	SER
1	E	70	LEU
1	E	73	ASP
1	E	78	VAL
1	E	79	ILE
1	E	82	TRP
1	E	85	GLU

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Mol	Chain	Res	Type
1	E	86	LYS
1	E	91	ARG
1	E	93	ILE
1	E	96	ILE
1	E	100	ASP
1	E	102	THR
1	E	112	LEU
1	E	114	ARG
1	E	121	ASP
1	E	129	LEU
1	E	142	GLU
1	E	147	THR
1	E	151	ASN
1	E	153	LYS
1	E	158	ASP
1	E	159	LEU
1	E	166	GLU
1	E	179	MET
1	E	182	GLU
1	E	190	VAL
1	E	199	PHE
1	E	201	TYR
1	E	205	VAL
1	E	206	ARG
1	E	211	ILE
1	E	223	ARG
1	E	225	HIS
1	E	240	ASN
1	E	250	LEU
1	E	252	LYS
1	E	255	VAL
1	E	262	ASN
1	E	264	ASP
1	E	272	LYS
1	E	275	ILE
1	E	285	PHE
1	E	291	PRO
1	E	299	LEU
1	E	304	GLU
1	E	315	ASN
1	E	316	ARG
1	E	321	ARG

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Mol	Chain	Res	Type
1	E	325	SER
1	E	328	ILE
1	E	329	SER
1	E	331	ARG
1	E	332	VAL
1	E	359	LYS
1	E	368	ILE
1	E	370	ARG
1	E	371	ASN
1	E	372	ILE
1	E	375	MET
1	E	376	SER
1	E	378	GLU
1	E	381	MET
1	E	383	ASN
1	E	386	VAL
1	E	387	ASP
1	E	398	GLU
1	E	402	ASN
1	E	418	ILE
1	E	441	MET
1	F	3	LYS
1	F	6	ARG
1	F	7	GLU
1	F	11	LYS
1	F	14	LYS
1	F	27	ASP
1	F	28	ILE
1	F	34	ASN
1	F	35	VAL
1	F	36	GLU
1	F	39	VAL
1	F	40	SER
1	F	42	LEU
1	F	49	LYS
1	F	63	ILE
1	F	64	GLU
1	F	66	SER
1	F	78	VAL
1	F	82	TRP
1	F	85	GLU
1	F	91	ARG

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Mol	Chain	Res	Type
1	F	92	PHE
1	F	100	ASP
1	F	112	LEU
1	F	115	ILE
1	F	128	ASN
1	F	129	LEU
1	F	141	ASP
1	F	142	GLU
1	F	147	THR
1	F	149	GLU
1	F	156	TYR
1	F	159	LEU
1	F	161	PRO
1	F	166	GLU
1	F	174	LEU
1	F	175	GLU
1	F	179	MET
1	F	190	VAL
1	F	199	PHE
1	F	205	VAL
1	F	210	ASP
1	F	227	LEU
1	F	239	VAL
1	F	240	ASN
1	F	248	LEU
1	F	252	LYS
1	F	258	PHE
1	F	270	THR
1	F	272	LYS
1	F	275	ILE
1	F	291	PRO
1	F	299	LEU
1	F	316	ARG
1	F	318	PRO
1	F	323	PRO
1	F	325	SER
1	F	328	ILE
1	F	329	SER
1	F	332	VAL
1	F	355	LEU
1	F	356	ASP
1	F	359	LYS

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Mol	Chain	Res	Type
1	F	371	ASN
1	F	374	VAL
1	F	380	ARG
1	F	381	MET
1	F	386	VAL
1	F	387	ASP
1	F	396	LEU
1	F	398	GLU
1	F	405	MET
1	F	429	ARG
1	G	7	GLU
1	G	11	LYS
1	G	12	LEU
1	G	15	GLU
1	G	16	GLU
1	G	22	ARG
1	G	24	GLN
1	G	28	ILE
1	G	31	THR
1	G	35	VAL
1	G	37	ILE
1	G	39	VAL
1	G	57	ILE
1	G	61	VAL
1	G	62	ARG
1	G	63	ILE
1	G	64	GLU
1	G	67	ASP
1	G	70	LEU
1	G	74	LEU
1	G	82	TRP
1	G	85	GLU
1	G	86	LYS
1	G	88	LYS
1	G	91	ARG
1	G	102	THR
1	G	105	GLU
1	G	112	LEU
1	G	122	LEU
1	G	129	LEU
1	G	133	PRO
1	G	142	GLU

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Mol	Chain	Res	Type
1	G	147	THR
1	G	149	GLU
1	G	159	LEU
1	G	161	PRO
1	G	183	ILE
1	G	184	GLU
1	G	186	SER
1	G	189	GLU
1	G	190	VAL
1	G	199	PHE
1	G	205	VAL
1	G	209	ASP
1	G	227	LEU
1	G	230	THR
1	G	237	PHE
1	G	239	VAL
1	G	255	VAL
1	G	262	ASN
1	G	272	LYS
1	G	291	PRO
1	G	295	SER
1	G	299	LEU
1	G	312	SER
1	G	315	ASN
1	G	316	ARG
1	G	326	ARG
1	G	328	ILE
1	G	336	SER
1	G	347	LEU
1	G	349	VAL
1	G	359	LYS
1	G	362	LEU
1	G	368	ILE
1	G	371	ASN
1	G	372	ILE
1	G	373	TYR
1	G	377	LYS
1	G	378	GLU
1	G	381	MET
1	G	383	ASN
1	G	403	GLU
1	G	404	VAL

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Mol	Chain	Res	Type
1	G	411	GLU
1	G	423	ILE
1	G	427	MET
1	G	436	GLU
1	H	14	LYS
1	H	24	GLN
1	H	31	THR
1	H	32	ILE
1	H	34	ASN
1	H	36	GLU
1	H	42	LEU
1	H	50	VAL
1	H	62	ARG
1	H	66	SER
1	H	68	MET
1	H	82	TRP
1	H	85	GLU
1	H	91	ARG
1	H	102	THR
1	H	107	ASP
1	H	109	ARG
1	H	112	LEU
1	H	115	ILE
1	H	118	GLU
1	H	126	ASP
1	H	129	LEU
1	H	142	GLU
1	H	151	ASN
1	H	159	LEU
1	H	163	ASP
1	H	164	LEU
1	H	166	GLU
1	H	174	LEU
1	H	178	GLU
1	H	183	ILE
1	H	184	GLU
1	H	190	VAL
1	H	198	ASP
1	H	199	PHE
1	H	200	LYS
1	H	201	TYR
1	H	205	VAL

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Mol	Chain	Res	Type
1	H	218	VAL
1	H	219	LYS
1	H	223	ARG
1	H	227	LEU
1	H	239	VAL
1	H	242	SER
1	H	250	LEU
1	H	252	LYS
1	H	261	GLU
1	H	264	ASP
1	H	266	GLN
1	H	275	ILE
1	H	279	VAL
1	H	291	PRO
1	H	303	TYR
1	H	304	GLU
1	H	308	TYR
1	H	312	SER
1	H	316	ARG
1	H	317	SER
1	H	319	LEU
1	H	328	ILE
1	H	329	SER
1	H	331	ARG
1	H	337	VAL
1	H	338	ASP
1	H	343	PRO
1	H	348	SER
1	H	350	LEU
1	H	358	ILE
1	H	361	LYS
1	H	362	LEU
1	H	365	PRO
1	H	369	ASP
1	H	371	ASN
1	H	372	ILE
1	H	373	TYR
1	H	374	VAL
1	H	380	ARG
1	H	381	MET
1	H	385	ILE
1	H	386	VAL

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Mol	Chain	Res	Type
1	H	391	THR
1	H	396	LEU
1	H	427	MET
1	H	438	GLU
1	I	5	THR
1	I	24	GLN
1	I	28	ILE
1	I	34	ASN
1	I	35	VAL
1	I	40	SER
1	I	50	VAL
1	I	51	MET
1	I	56	SER
1	I	57	ILE
1	I	61	VAL
1	I	63	ILE
1	I	66	SER
1	I	68	MET
1	I	70	LEU
1	I	85	GLU
1	I	86	LYS
1	I	91	ARG
1	I	102	THR
1	I	105	GLU
1	I	108	PRO
1	I	112	LEU
1	I	116	LEU
1	I	119	MET
1	I	126	ASP
1	I	129	LEU
1	I	142	GLU
1	I	147	THR
1	I	149	GLU
1	I	153	LYS
1	I	159	LEU
1	I	161	PRO
1	I	162	THR
1	I	163	ASP
1	I	190	VAL
1	I	192	PRO
1	I	205	VAL
1	I	207	SER

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Mol	Chain	Res	Type
1	I	220	THR
1	I	234	LYS
1	I	239	VAL
1	I	242	SER
1	I	250	LEU
1	I	252	LYS
1	I	261	GLU
1	I	266	GLN
1	I	269	GLU
1	I	270	THR
1	I	284	SER
1	I	286	THR
1	I	288	VAL
1	I	291	PRO
1	I	300	VAL
1	I	304	GLU
1	I	316	ARG
1	I	319	LEU
1	I	325	SER
1	I	326	ARG
1	I	329	SER
1	I	331	ARG
1	I	332	VAL
1	I	343	PRO
1	I	344	TYR
1	I	347	LEU
1	I	359	LYS
1	I	361	LYS
1	I	362	LEU
1	I	368	ILE
1	I	369	ASP
1	I	374	VAL
1	I	381	MET
1	I	382	GLU
1	I	386	VAL
1	I	387	ASP
1	I	404	VAL
1	I	413	LEU
1	I	427	MET
1	I	441	MET
1	J	12	LEU
1	J	19	LYS

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Mol	Chain	Res	Type
1	J	28	ILE
1	J	32	ILE
1	J	33	LYS
1	J	34	ASN
1	J	36	GLU
1	J	42	LEU
1	J	51	MET
1	J	55	SER
1	J	61	VAL
1	J	63	ILE
1	J	64	GLU
1	J	65	GLU
1	J	71	TYR
1	J	74	LEU
1	J	78	VAL
1	J	82	TRP
1	J	91	ARG
1	J	98	ASN
1	J	112	LEU
1	J	115	ILE
1	J	122	LEU
1	J	126	ASP
1	J	129	LEU
1	J	142	GLU
1	J	147	THR
1	J	148	LEU
1	J	152	ASP
1	J	159	LEU
1	J	161	PRO
1	J	163	ASP
1	J	166	GLU
1	J	174	LEU
1	J	178	GLU
1	J	183	ILE
1	J	190	VAL
1	J	199	PHE
1	J	200	LYS
1	J	205	VAL
1	J	220	THR
1	J	223	ARG
1	J	240	ASN
1	J	244	MET

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Mol	Chain	Res	Type
1	J	252	LYS
1	J	264	ASP
1	J	266	GLN
1	J	270	THR
1	J	272	LYS
1	J	284	SER
1	J	307	CYS
1	J	325	SER
1	J	326	ARG
1	J	328	ILE
1	J	329	SER
1	J	331	ARG
1	J	332	VAL
1	J	338	ASP
1	J	351	LEU
1	J	359	LYS
1	J	360	ASN
1	J	362	LEU
1	J	368	ILE
1	J	369	ASP
1	J	370	ARG
1	J	371	ASN
1	J	378	GLU
1	J	381	MET
1	J	383	ASN
1	J	386	VAL
1	J	392	LEU
1	J	401	SER
1	J	407	LYS
1	J	411	GLU
1	J	415	GLU
1	J	423	ILE
1	J	433	HIS
1	K	7	GLU
1	K	28	ILE
1	K	34	ASN
1	K	35	VAL
1	K	36	GLU
1	K	37	ILE
1	K	39	VAL
1	K	42	LEU
1	K	52	PHE

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Mol	Chain	Res	Type
1	K	67	ASP
1	K	70	LEU
1	K	82	TRP
1	K	83	THR
1	K	91	ARG
1	K	100	ASP
1	K	102	THR
1	K	105	GLU
1	K	112	LEU
1	K	115	ILE
1	K	119	MET
1	K	122	LEU
1	K	129	LEU
1	K	133	PRO
1	K	137	LEU
1	K	147	THR
1	K	156	TYR
1	K	162	THR
1	K	183	ILE
1	K	186	SER
1	K	199	PHE
1	K	200	LYS
1	K	201	TYR
1	K	206	ARG
1	K	207	SER
1	K	221	ILE
1	K	223	ARG
1	K	224	LYS
1	K	240	ASN
1	K	255	VAL
1	K	261	GLU
1	K	268	SER
1	K	283	THR
1	K	284	SER
1	K	286	THR
1	K	291	PRO
1	K	292	THR
1	K	299	LEU
1	K	309	VAL
1	K	320	ILE
1	K	328	ILE
1	K	329	SER

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Mol	Chain	Res	Type
1	K	335	ARG
1	K	359	LYS
1	K	361	LYS
1	K	363	GLU
1	K	371	ASN
1	K	372	ILE
1	K	381	MET
1	K	385	ILE
1	K	388	LEU
1	K	396	LEU
1	K	404	VAL
1	K	413	LEU
1	K	415	GLU
1	K	427	MET
1	K	429	ARG
1	K	431	GLN
1	K	433	HIS
1	K	443	GLN
1	K	444	TYR
1	L	3	LYS
1	L	8	ASP
1	L	9	ILE
1	L	12	LEU
1	L	15	GLU
1	L	18	VAL
1	L	25	PHE
1	L	32	ILE
1	L	34	ASN
1	L	36	GLU
1	L	40	SER
1	L	52	PHE
1	L	55	SER
1	L	67	ASP
1	L	71	TYR
1	L	74	LEU
1	L	78	VAL
1	L	82	TRP
1	L	86	LYS
1	L	91	ARG
1	L	94	CYS
1	L	96	ILE
1	L	112	LEU

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Mol	Chain	Res	Type
1	L	119	MET
1	L	120	GLU
1	L	122	LEU
1	L	126	ASP
1	L	142	GLU
1	L	152	ASP
1	L	156	TYR
1	L	159	LEU
1	L	164	LEU
1	L	167	ASN
1	L	170	ARG
1	L	183	ILE
1	L	184	GLU
1	L	190	VAL
1	L	208	CYS
1	L	218	VAL
1	L	220	THR
1	L	223	ARG
1	L	231	PHE
1	L	234	LYS
1	L	240	ASN
1	L	252	LYS
1	L	253	ASN
1	L	261	GLU
1	L	265	LEU
1	L	270	THR
1	L	279	VAL
1	L	298	ARG
1	L	301	PRO
1	L	304	GLU
1	L	312	SER
1	L	314	GLN
1	L	325	SER
1	L	326	ARG
1	L	331	ARG
1	L	332	VAL
1	L	337	VAL
1	L	338	ASP
1	L	343	PRO
1	L	347	LEU
1	L	358	ILE
1	L	362	LEU

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Mol	Chain	Res	Type
1	L	363	GLU
1	L	369	ASP
1	L	370	ARG
1	L	372	ILE
1	L	375	MET
1	L	376	SER
1	L	380	ARG
1	L	381	MET
1	L	383	ASN
1	L	386	VAL
1	L	387	ASP
1	L	404	VAL
1	L	423	ILE
1	L	424	GLU
1	L	441	MET
1	M	9	ILE
1	M	14	LYS
1	M	27	ASP
1	M	32	ILE
1	M	34	ASN
1	M	35	VAL
1	M	39	VAL
1	M	40	SER
1	M	51	MET
1	M	56	SER
1	M	62	ARG
1	M	65	GLU
1	M	68	MET
1	M	70	LEU
1	M	72	PRO
1	M	85	GLU
1	M	91	ARG
1	M	93	ILE
1	M	99	PRO
1	M	102	THR
1	M	105	GLU
1	M	109	ARG
1	M	112	LEU
1	M	122	LEU
1	M	129	LEU
1	M	149	GLU
1	M	153	LYS

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Mol	Chain	Res	Type
1	M	167	ASN
1	M	199	PHE
1	M	207	SER
1	M	210	ASP
1	M	211	ILE
1	M	216	LEU
1	M	234	LYS
1	M	242	SER
1	M	248	LEU
1	M	252	LYS
1	M	255	VAL
1	M	261	GLU
1	M	267	LEU
1	M	270	THR
1	M	272	LYS
1	M	283	THR
1	M	285	PHE
1	M	286	THR
1	M	291	PRO
1	M	292	THR
1	M	304	GLU
1	M	315	ASN
1	M	320	ILE
1	M	325	SER
1	M	328	ILE
1	M	329	SER
1	M	331	ARG
1	M	332	VAL
1	M	347	LEU
1	M	351	LEU
1	M	362	LEU
1	M	363	GLU
1	M	369	ASP
1	M	375	MET
1	M	376	SER
1	M	378	GLU
1	M	380	ARG
1	M	381	MET
1	M	383	ASN
1	M	387	ASP
1	M	413	LEU
1	M	418	ILE

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Mol	Chain	Res	Type
1	M	423	ILE
1	M	426	ASP
1	M	443	GLN
1	N	7	GLU
1	N	11	LYS
1	N	12	LEU
1	N	14	LYS
1	N	21	ILE
1	N	27	ASP
1	N	28	ILE
1	N	31	THR
1	N	32	ILE
1	N	34	ASN
1	N	35	VAL
1	N	42	LEU
1	N	64	GLU
1	N	67	ASP
1	N	68	MET
1	N	69	TYR
1	N	70	LEU
1	N	71	TYR
1	N	85	GLU
1	N	91	ARG
1	N	105	GLU
1	N	110	ASN
1	N	112	LEU
1	N	119	MET
1	N	122	LEU
1	N	129	LEU
1	N	140	LEU
1	N	143	LYS
1	N	147	THR
1	N	148	LEU
1	N	151	ASN
1	N	159	LEU
1	N	179	MET
1	N	181	PHE
1	N	184	GLU
1	N	190	VAL
1	N	201	TYR
1	N	205	VAL
1	N	207	SER

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Mol	Chain	Res	Type
1	N	211	ILE
1	N	227	LEU
1	N	250	LEU
1	N	253	ASN
1	N	261	GLU
1	N	262	ASN
1	N	270	THR
1	N	295	SER
1	N	303	TYR
1	N	315	ASN
1	N	319	LEU
1	N	331	ARG
1	N	332	VAL
1	N	335	ARG
1	N	347	LEU
1	N	359	LYS
1	N	368	ILE
1	N	371	ASN
1	N	374	VAL
1	N	375	MET
1	N	382	GLU
1	N	404	VAL
1	N	405	MET
1	N	411	GLU
1	N	416	HIS
1	N	422	GLU
1	N	427	MET
1	N	429	ARG
1	N	431	GLN
1	N	436	GLU
1	N	438	GLU
1	N	442	SER
2	O	748	LEU
2	P	752	ASN
2	Q	748	LEU
2	Q	751	GLN
2	Q	752	ASN
2	Q	754	HIS
2	Q	756	ARG
2	R	751	GLN
2	R	752	ASN
2	R	754	HIS

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Mol	Chain	Res	Type
2	R	757	TYR
2	R	758	LYS
2	S	748	LEU
2	S	757	TYR
2	T	748	LEU
2	T	751	GLN
2	T	754	HIS
2	U	749	GLU
2	U	751	GLN
2	U	754	HIS
2	U	757	TYR
2	U	758	LYS
2	V	752	ASN
2	W	747	MET
2	W	752	ASN
2	W	754	HIS
2	W	758	LYS
2	X	752	ASN
2	Y	748	LEU
2	Y	749	GLU
2	Y	751	GLN
2	Y	758	LYS
2	Z	752	ASN
2	Z	754	HIS
2	Z	759	ASN
2	1	754	HIS
2	1	756	ARG
2	1	757	TYR
2	2	749	GLU
2	2	751	GLN
2	2	752	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (187) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	24	GLN
1	A	98	ASN
1	A	110	ASN
1	A	151	ASN
1	A	188	HIS
1	A	195	HIS
1	A	225	HIS

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Mol	Chain	Res	Type
1	A	240	ASN
1	A	314	GLN
1	A	360	ASN
1	A	416	HIS
1	A	433	HIS
1	B	194	GLN
1	B	225	HIS
1	B	315	ASN
1	B	383	ASN
1	B	433	HIS
1	C	24	GLN
1	C	128	ASN
1	C	151	ASN
1	C	167	ASN
1	C	245	HIS
1	C	281	HIS
1	C	290	ASN
1	C	412	HIS
1	C	433	HIS
1	C	439	GLN
1	D	24	GLN
1	D	48	ASN
1	D	110	ASN
1	D	111	ASN
1	D	128	ASN
1	D	151	ASN
1	D	167	ASN
1	D	212	GLN
1	D	228	HIS
1	D	240	ASN
1	D	315	ASN
1	D	342	ASN
1	D	416	HIS
1	D	443	GLN
1	E	17	ASN
1	E	34	ASN
1	E	110	ASN
1	E	128	ASN
1	E	187	HIS
1	E	225	HIS
1	E	240	ASN
1	E	256	ASN

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Mol	Chain	Res	Type
1	E	290	ASN
1	E	371	ASN
1	E	416	HIS
1	F	17	ASN
1	F	98	ASN
1	F	110	ASN
1	F	111	ASN
1	F	225	HIS
1	F	253	ASN
1	F	281	HIS
1	F	371	ASN
1	F	416	HIS
1	F	443	GLN
1	G	24	GLN
1	G	34	ASN
1	G	110	ASN
1	G	167	ASN
1	G	187	HIS
1	G	194	GLN
1	G	228	HIS
1	G	245	HIS
1	G	290	ASN
1	G	383	ASN
1	H	34	ASN
1	H	98	ASN
1	H	111	ASN
1	H	151	ASN
1	H	187	HIS
1	H	194	GLN
1	H	225	HIS
1	H	253	ASN
1	H	266	GLN
1	H	290	ASN
1	H	314	GLN
1	H	383	ASN
1	I	48	ASN
1	I	98	ASN
1	I	111	ASN
1	I	128	ASN
1	I	151	ASN
1	I	167	ASN
1	I	194	GLN

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Mol	Chain	Res	Type
1	I	228	HIS
1	I	240	ASN
1	I	281	HIS
1	I	412	HIS
1	I	433	HIS
1	I	439	GLN
1	I	443	GLN
1	J	34	ASN
1	J	98	ASN
1	J	128	ASN
1	J	151	ASN
1	J	194	GLN
1	J	240	ASN
1	J	294	ASN
1	J	315	ASN
1	J	360	ASN
1	J	416	HIS
1	K	17	ASN
1	K	110	ASN
1	K	111	ASN
1	K	128	ASN
1	K	187	HIS
1	K	195	HIS
1	K	212	GLN
1	K	247	ASN
1	K	253	ASN
1	K	262	ASN
1	K	294	ASN
1	K	383	ASN
1	K	416	HIS
1	K	431	GLN
1	K	439	GLN
1	K	443	GLN
1	L	98	ASN
1	L	111	ASN
1	L	151	ASN
1	L	167	ASN
1	L	194	GLN
1	L	195	HIS
1	L	245	HIS
1	L	247	ASN
1	L	383	ASN

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Mol	Chain	Res	Type
1	L	416	HIS
1	L	439	GLN
1	M	17	ASN
1	M	34	ASN
1	M	75	ASN
1	M	110	ASN
1	M	111	ASN
1	M	128	ASN
1	M	212	GLN
1	M	225	HIS
1	M	228	HIS
1	M	247	ASN
1	M	253	ASN
1	M	256	ASN
1	M	262	ASN
1	M	281	HIS
1	M	290	ASN
1	M	314	GLN
1	M	412	HIS
1	M	433	HIS
1	N	41	GLN
1	N	110	ASN
1	N	187	HIS
1	N	294	ASN
1	N	314	GLN
1	N	371	ASN
1	N	412	HIS
1	N	416	HIS
1	N	431	GLN
1	N	433	HIS
2	O	751	GLN
2	O	752	ASN
2	P	752	ASN
2	Q	751	GLN
2	R	751	GLN
2	R	752	ASN
2	R	754	HIS
2	S	752	ASN
2	S	759	ASN
2	T	752	ASN
2	T	759	ASN
2	U	752	ASN

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Mol	Chain	Res	Type
2	V	751	GLN
2	V	759	ASN
2	W	751	GLN
2	W	752	ASN
2	X	751	GLN
2	X	754	HIS
2	Y	752	ASN
2	Z	751	GLN
2	1	752	ASN
2	1	759	ASN
2	2	751	GLN
2	2	754	HIS

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 61 ligands modelled in this entry, 47 are monoatomic - leaving 14 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	$\# Z > 2$
3	GLN	D	501	-	7,8,9	0.51	0	4,9,11	0.07	0
3	GLN	M	503	-	8,9,9	0.75	0	8,11,11	0.24	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	GLN	F	501	-	7,8,9	0.75	0	4,9,11	0.25	0
3	GLN	I	501	4	7,8,9	0.50	0	4,9,11	0.12	0
3	GLN	C	503	-	8,9,9	0.80	0	8,11,11	0.26	0
3	GLN	A	501	4	7,8,9	0.81	0	4,9,11	0.19	0
3	GLN	G	501	-	7,8,9	0.54	0	4,9,11	0.17	0
3	GLN	K	501	4	7,8,9	0.68	0	4,9,11	0.45	0
3	GLN	N	501	4	7,8,9	0.47	0	4,9,11	0.18	0
3	GLN	J	501	-	7,8,9	0.51	0	4,9,11	0.22	0
3	GLN	E	501	-	7,8,9	0.49	0	4,9,11	0.11	0
3	GLN	H	501	4	7,8,9	0.53	0	4,9,11	0.07	0
3	GLN	B	501	4	7,8,9	0.68	0	4,9,11	0.13	0
3	GLN	L	501	4	8,9,9	0.77	0	8,11,11	0.24	0

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
3	GLN	D	501	-	-	2/6/7/9	-
3	GLN	M	503	-	-	4/9/9/9	-
3	GLN	F	501	-	-	2/6/7/9	-
3	GLN	I	501	4	-	3/6/7/9	-
3	GLN	C	503	-	-	8/9/9/9	-
3	GLN	A	501	4	-	1/6/7/9	-
3	GLN	G	501	-	-	0/6/7/9	-
3	GLN	K	501	4	-	0/6/7/9	-
3	GLN	N	501	4	-	2/6/7/9	-
3	GLN	J	501	-	-	1/6/7/9	-
3	GLN	E	501	-	-	0/6/7/9	-
3	GLN	H	501	4	-	2/6/7/9	-
3	GLN	B	501	4	-	3/6/7/9	-
3	GLN	L	501	4	-	5/9/9/9	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (33) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	C	503	GLN	O-C-CA-N
3	C	503	GLN	N-CA-CB-CG
3	C	503	GLN	C-CA-CB-CG
3	D	501	GLN	N-CA-CB-CG
3	D	501	GLN	C-CA-CB-CG
3	F	501	GLN	O-C-CA-CB
3	H	501	GLN	N-CA-CB-CG
3	H	501	GLN	C-CA-CB-CG
3	I	501	GLN	N-CA-CB-CG
3	I	501	GLN	C-CA-CB-CG
3	J	501	GLN	O-C-CA-CB
3	M	503	GLN	O-C-CA-N
3	N	501	GLN	O-C-CA-CB
3	B	501	GLN	CA-CB-CG-CD
3	F	501	GLN	CA-CB-CG-CD
3	C	503	GLN	OXT-C-CA-N
3	M	503	GLN	OXT-C-CA-N
3	A	501	GLN	CA-CB-CG-CD
3	N	501	GLN	CA-CB-CG-CD
3	I	501	GLN	CA-CB-CG-CD
3	C	503	GLN	OE1-CD-CG-CB
3	B	501	GLN	C-CA-CB-CG
3	B	501	GLN	N-CA-CB-CG
3	C	503	GLN	NE2-CD-CG-CB
3	L	501	GLN	O-C-CA-CB
3	L	501	GLN	OXT-C-CA-N
3	L	501	GLN	OXT-C-CA-CB
3	C	503	GLN	O-C-CA-CB
3	C	503	GLN	OXT-C-CA-CB
3	M	503	GLN	O-C-CA-CB
3	L	501	GLN	N-CA-CB-CG
3	M	503	GLN	OXT-C-CA-CB
3	L	501	GLN	O-C-CA-N

There are no ring outliers.

12 monomers are involved in 38 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	D	501	GLN	3	0
3	F	501	GLN	5	0
3	I	501	GLN	2	0
3	C	503	GLN	3	0
3	A	501	GLN	5	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	G	501	GLN	2	0
3	N	501	GLN	1	0
3	J	501	GLN	3	0
3	E	501	GLN	2	0
3	H	501	GLN	2	0
3	B	501	GLN	6	0
3	L	501	GLN	4	0

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	443/447 (99%)	-1.59	0 100 100	21, 48, 89, 114	0
1	B	443/447 (99%)	-1.58	0 100 100	16, 47, 93, 118	0
1	C	443/447 (99%)	-1.60	0 100 100	19, 47, 90, 118	0
1	D	447/447 (100%)	-1.60	0 100 100	19, 49, 89, 117	0
1	E	443/447 (99%)	-1.59	0 100 100	17, 50, 88, 122	0
1	F	443/447 (99%)	-1.58	0 100 100	19, 52, 91, 121	0
1	G	443/447 (99%)	-1.60	0 100 100	21, 50, 97, 123	0
1	H	443/447 (99%)	-1.57	0 100 100	19, 51, 93, 128	0
1	I	443/447 (99%)	-1.60	0 100 100	18, 50, 90, 125	0
1	J	443/447 (99%)	-1.57	0 100 100	25, 58, 97, 119	0
1	K	443/447 (99%)	-1.56	0 100 100	27, 60, 96, 122	0
1	L	443/447 (99%)	-1.58	0 100 100	26, 59, 92, 113	0
1	M	443/447 (99%)	-1.57	0 100 100	24, 61, 95, 118	0
1	N	443/447 (99%)	-1.58	0 100 100	21, 51, 96, 125	0
2	1	15/15 (100%)	-1.19	0 100 100	68, 75, 88, 89	0
2	2	15/15 (100%)	-1.25	0 100 100	60, 77, 89, 91	0
2	O	15/15 (100%)	-1.19	0 100 100	73, 85, 93, 97	0
2	P	15/15 (100%)	-1.25	0 100 100	73, 88, 94, 94	0
2	Q	15/15 (100%)	-1.26	0 100 100	79, 92, 95, 96	0
2	R	15/15 (100%)	-1.29	0 100 100	74, 81, 86, 87	0
2	S	15/15 (100%)	-1.17	0 100 100	56, 78, 88, 88	0
2	T	15/15 (100%)	-1.16	0 100 100	56, 80, 92, 95	0
2	U	15/15 (100%)	-1.23	0 100 100	66, 85, 91, 92	0
2	V	15/15 (100%)	-1.37	0 100 100	68, 81, 95, 96	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9	
2	W	15/15 (100%)	-1.31	0	100100	65, 86, 91, 94	0
2	X	15/15 (100%)	-1.16	0	100100	67, 80, 91, 91	0
2	Y	15/15 (100%)	-1.25	0	100100	61, 84, 92, 92	0
2	Z	15/15 (100%)	-1.23	0	100100	66, 78, 90, 91	0
All	All	6416/6468 (99%)	-1.57	0	100100	16, 54, 93, 128	0

There are no RSRZ outliers to report.

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

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

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
4	MG	M	504	1/1	0.98	0.07	84,84,84,84	0
3	GLN	J	501	9/10	0.99	0.07	52,62,68,76	0
3	GLN	K	501	9/10	0.99	0.07	46,53,60,66	0
4	MG	A	505	1/1	0.99	0.02	14,14,14,14	0
4	MG	C	504	1/1	0.99	0.07	73,73,73,73	0
4	MG	C	508	1/1	0.99	0.06	24,24,24,24	0
4	MG	D	507	1/1	0.99	0.03	76,76,76,76	0
4	MG	E	502	1/1	0.99	0.03	30,30,30,30	0
4	MG	E	503	1/1	0.99	0.07	59,59,59,59	0
4	MG	F	504	1/1	0.99	0.04	86,86,86,86	0
4	MG	H	502	1/1	0.99	0.06	36,36,36,36	0
4	MG	H	504	1/1	0.99	0.04	38,38,38,38	0
4	MG	J	504	1/1	0.99	0.05	80,80,80,80	0
4	MG	K	504	1/1	0.99	0.07	87,87,87,87	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
4	MG	L	502	1/1	0.99	0.02	31,31,31,31	0
3	GLN	B	501	9/10	0.99	0.05	45,52,60,61	0
4	MG	A	504	1/1	1.00	0.01	10,10,10,10	0
3	GLN	D	501	9/10	1.00	0.04	31,33,41,44	0
4	MG	B	502	1/1	1.00	0.04	30,30,30,30	0
4	MG	B	503	1/1	1.00	0.03	24,24,24,24	0
4	MG	B	504	1/1	1.00	0.01	11,11,11,11	0
4	MG	C	501	1/1	1.00	0.04	22,22,22,22	0
4	MG	C	502	1/1	1.00	0.01	23,23,23,23	0
3	GLN	E	501	9/10	1.00	0.01	27,33,47,47	0
4	MG	C	505	1/1	1.00	0.02	28,28,28,28	0
4	MG	C	506	1/1	1.00	0.01	16,16,16,16	0
4	MG	C	507	1/1	1.00	0.01	14,14,14,14	0
3	GLN	F	501	9/10	1.00	0.04	29,45,60,63	0
4	MG	D	502	1/1	1.00	0.04	32,32,32,32	0
4	MG	D	503	1/1	1.00	0.02	16,16,16,16	0
4	MG	D	504	1/1	1.00	0.01	33,33,33,33	0
4	MG	D	505	1/1	1.00	0.01	14,14,14,14	0
4	MG	D	506	1/1	1.00	0.03	11,11,11,11	0
3	GLN	G	501	9/10	1.00	0.05	30,39,59,66	0
4	MG	D	508	1/1	1.00	0.01	14,14,14,14	0
4	MG	D	509	1/1	1.00	0.02	32,32,32,32	0
3	GLN	H	501	9/10	1.00	0.04	37,48,67,67	0
3	GLN	I	501	9/10	1.00	0.05	33,42,47,52	0
4	MG	F	502	1/1	1.00	0.02	26,26,26,26	0
4	MG	F	503	1/1	1.00	0.01	18,18,18,18	0
3	GLN	A	501	9/10	1.00	0.03	32,36,40,40	0
4	MG	G	502	1/1	1.00	0.01	31,31,31,31	0
3	GLN	C	503	10/10	1.00	0.03	31,57,81,83	0
4	MG	H	503	1/1	1.00	0.03	25,25,25,25	0
3	GLN	L	501	10/10	1.00	0.04	59,65,70,70	0
4	MG	I	502	1/1	1.00	0.04	24,24,24,24	0
4	MG	I	503	1/1	1.00	0.02	21,21,21,21	0
4	MG	J	502	1/1	1.00	0.02	28,28,28,28	0
4	MG	J	503	1/1	1.00	0.01	16,16,16,16	0
3	GLN	M	503	10/10	1.00	0.07	81,91,96,96	0
4	MG	K	502	1/1	1.00	0.01	20,20,20,20	0
4	MG	K	503	1/1	1.00	0.01	24,24,24,24	0
3	GLN	N	501	9/10	1.00	0.04	24,32,44,46	0
4	MG	A	502	1/1	1.00	0.02	37,37,37,37	0
4	MG	L	503	1/1	1.00	0.01	23,23,23,23	0
4	MG	L	504	1/1	1.00	0.04	40,40,40,40	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
4	MG	M	501	1/1	1.00	0.02	10,10,10,10	0
4	MG	M	502	1/1	1.00	0.01	55,55,55,55	0
4	MG	A	503	1/1	1.00	0.02	19,19,19,19	0
4	MG	N	502	1/1	1.00	0.02	12,12,12,12	0
4	MG	N	503	1/1	1.00	0.03	17,17,17,17	0

6.5 Other polymers [i](#)

There are no such residues in this entry.