



Full wwPDB/EMDatabank EM Map/Model Validation Report ⓘ

Mar 2, 2017 – 11:24 am GMT

PDB ID : 3IXV
EMDB ID: : EMD-5100
Title : Scorpion Hemocyanin resting state pseudo atomic model built based on cryo-EM density map
Authors : Cong, Y.; Zhang, Q.; Woolford, D.; Schweikardt, T.; Khant, H.; Ludtke, S.; Chiu, W.; Decker, H.
Deposited on : 2009-02-13
Resolution : 6.80 Å(reported)

This is a Full wwPDB/EMDatabank EM Map/Model Validation Report
for a publicly released PDB/EMDB entry.

We welcome your comments at validation@mail.wwpdb.org
A user guide is available at
<http://wwpdb.org/validation/2016/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

MolProbity : 4.02b-467
Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : recalc29047

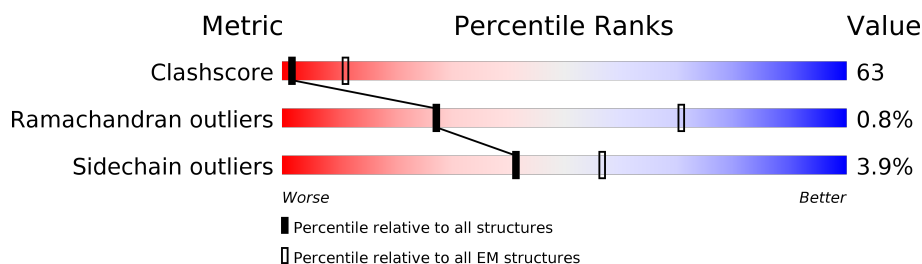
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 6.80 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)	EM structures (#Entries)
Clashscore	125131	1336
Ramachandran outliers	121729	1120
Sidechain outliers	121581	1026

The table below summarises the geometric issues observed across the polymeric chains. The red, orange, yellow and green segments on the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$

Mol	Chain	Length	Quality of chain
1	A	626	37% 58% .
1	C	626	38% 55% 6% .
1	D	626	38% 57% 5%
1	E	626	37% 57% 5% .
1	F	626	38% 58% .
1	G	626	40% 55% 5%
1	H	626	40% 54% 5% .
1	I	626	38% 57% 5%
1	J	626	42% 52% 6%

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Mol	Chain	Length	Quality of chain
1	K	626	<div><div></div><div>37%56%6%</div></div>
1	L	626	<div><div></div><div>38%57%5%</div></div>
1	M	626	<div><div></div><div>40%54%. .</div></div>

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 74208 atoms, of which 13476 are hydrogens and 0 are deuteriums.

In the tables below, 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.

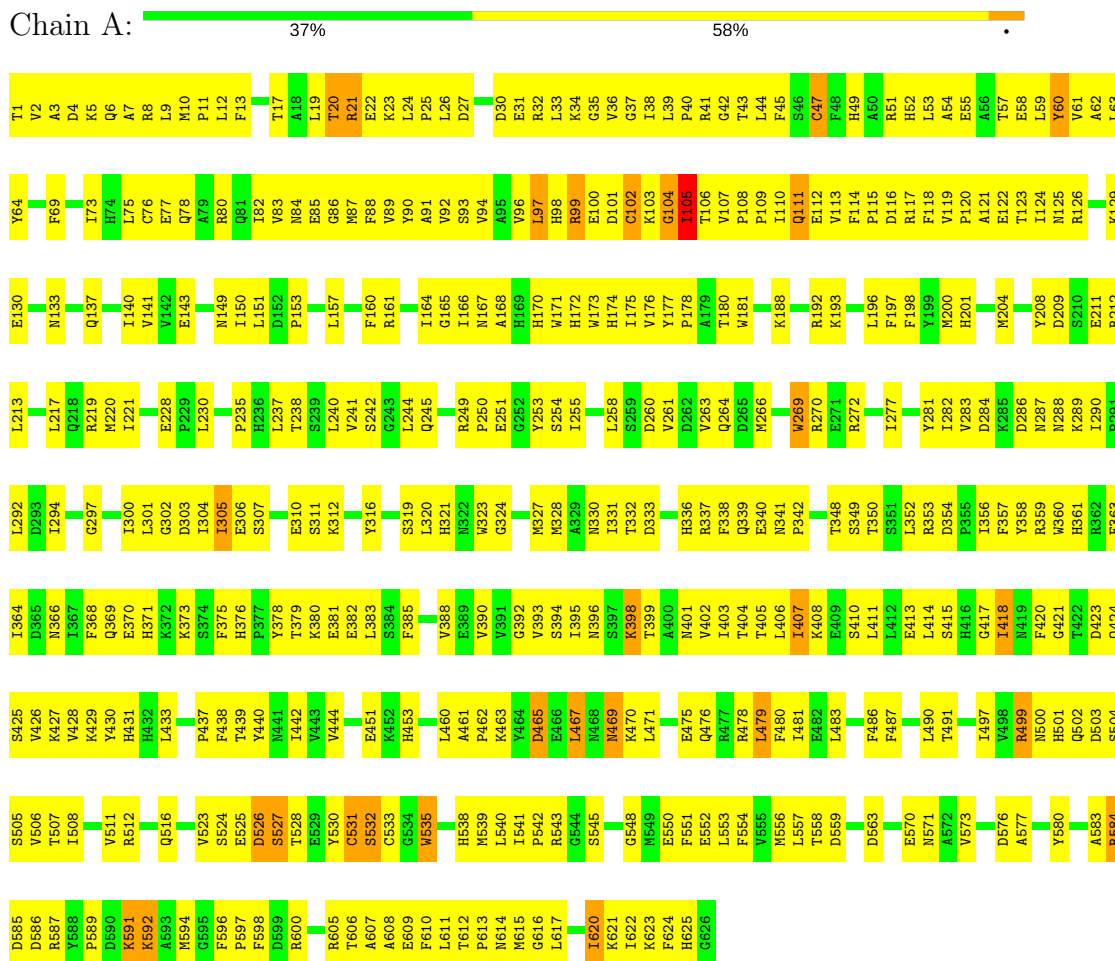
- Molecule 1 is a protein called Hemocyanin AA6 chain.

Mol	Chain	Residues	Atoms						AltConf	Trace
1	A	626	Total	C	H	N	O	S	0	0
			6184	3199	1123	877	961	24		
1	C	626	Total	C	H	N	O	S	0	0
			6184	3199	1123	877	961	24		
1	D	626	Total	C	H	N	O	S	0	0
			6184	3199	1123	877	961	24		
1	E	626	Total	C	H	N	O	S	0	0
			6184	3199	1123	877	961	24		
1	F	626	Total	C	H	N	O	S	0	0
			6184	3199	1123	877	961	24		
1	G	626	Total	C	H	N	O	S	0	0
			6184	3199	1123	877	961	24		
1	H	626	Total	C	H	N	O	S	0	0
			6184	3199	1123	877	961	24		
1	I	626	Total	C	H	N	O	S	0	0
			6184	3199	1123	877	961	24		
1	J	626	Total	C	H	N	O	S	0	0
			6184	3199	1123	877	961	24		
1	K	626	Total	C	H	N	O	S	0	0
			6184	3199	1123	877	961	24		
1	L	626	Total	C	H	N	O	S	0	0
			6184	3199	1123	877	961	24		
1	M	626	Total	C	H	N	O	S	0	0
			6184	3199	1123	877	961	24		

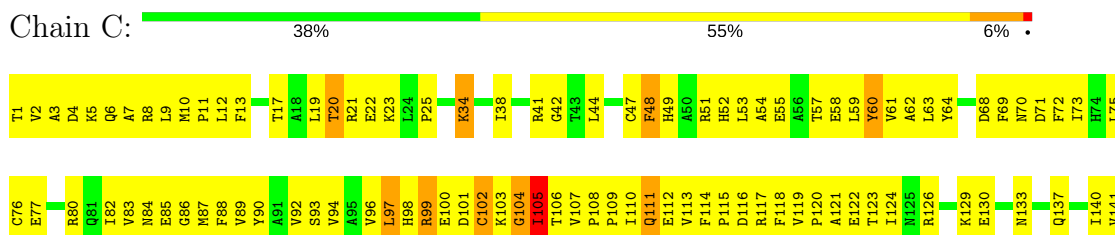
3 Residue-property plots

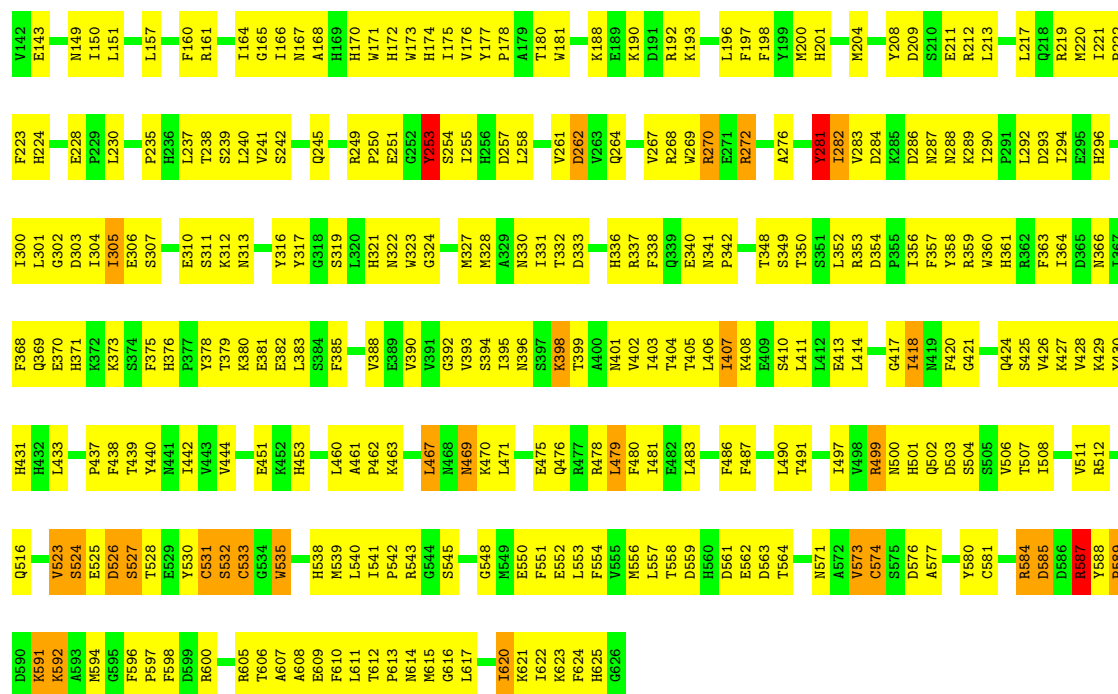
These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. Residues are color-coded according 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. 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: Hemocyanin AA6 chain

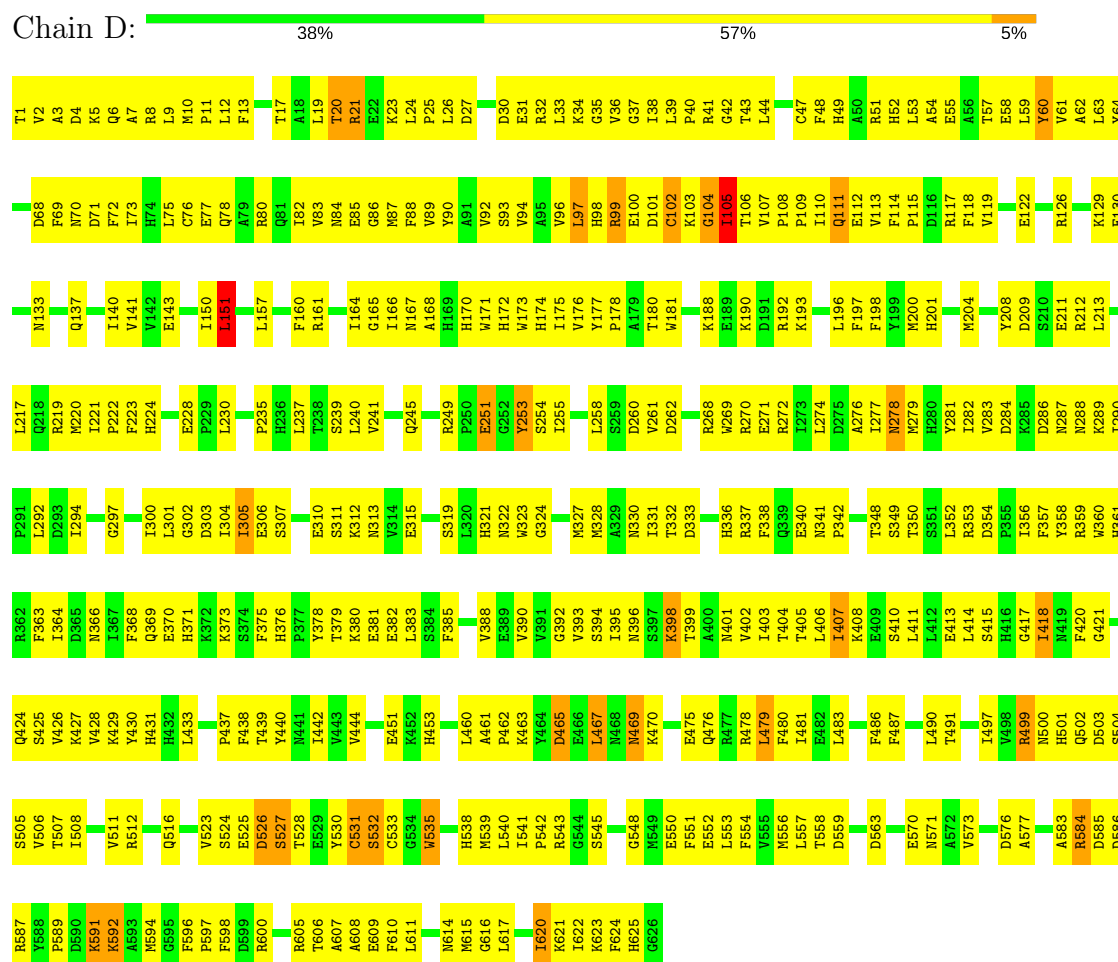


- Molecule 1: Hemocyanin AA6 chain



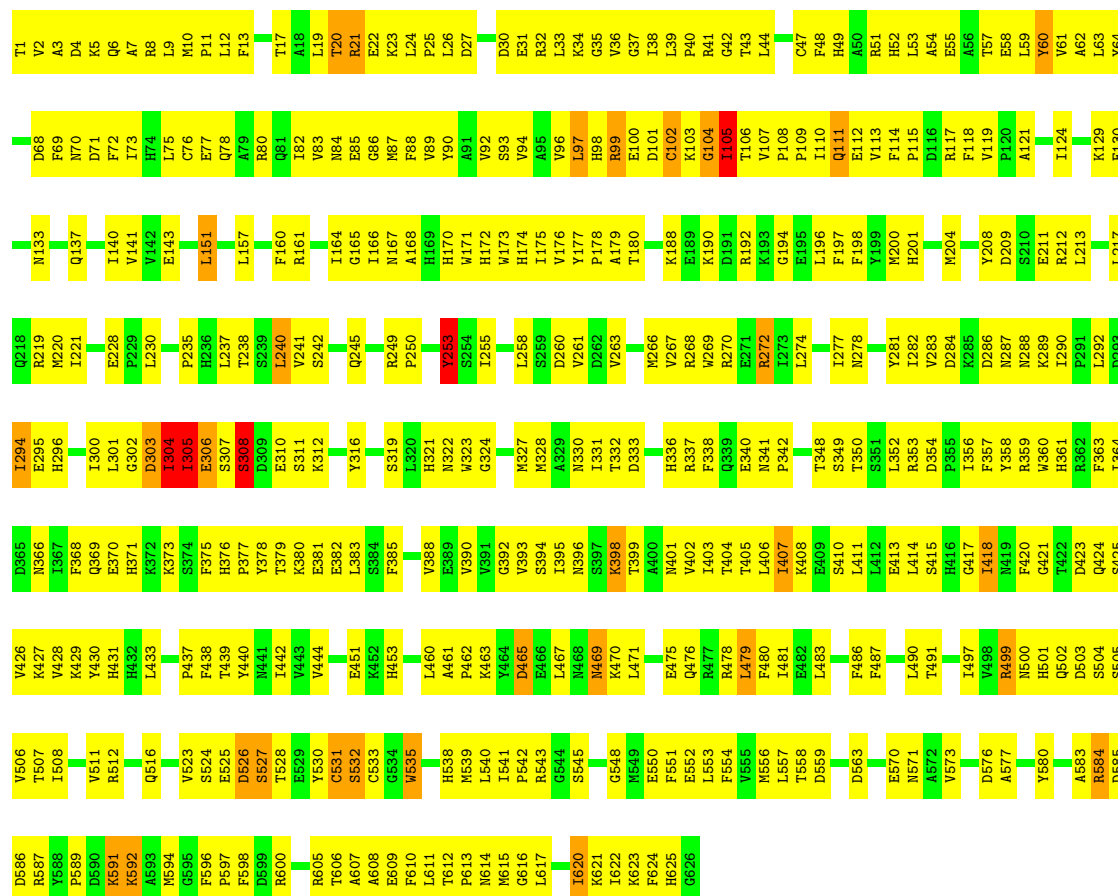


● Molecule 1: Hemocyanin AA6 chain



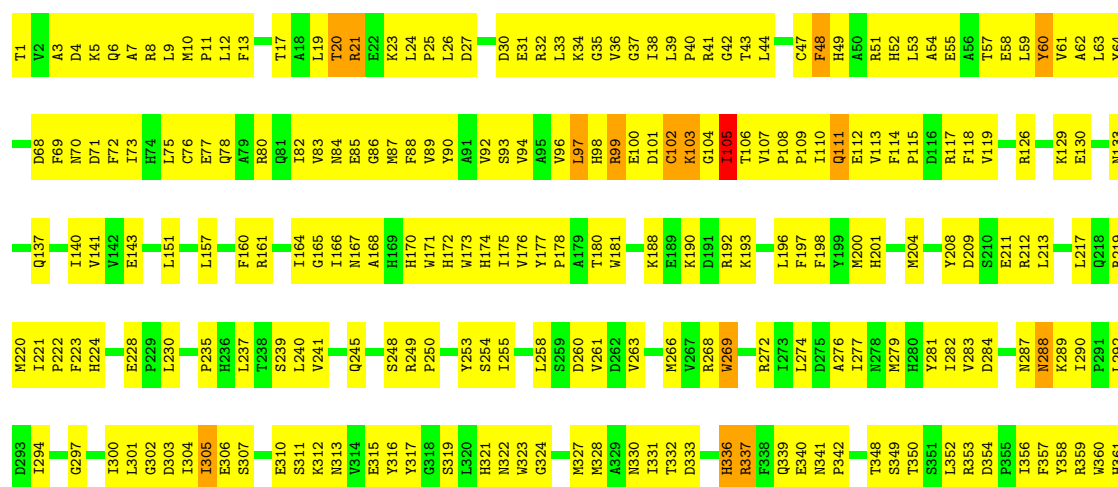
- Molecule 1: Hemocyanin AA6 chain

Chain E: 37% 57% 5%

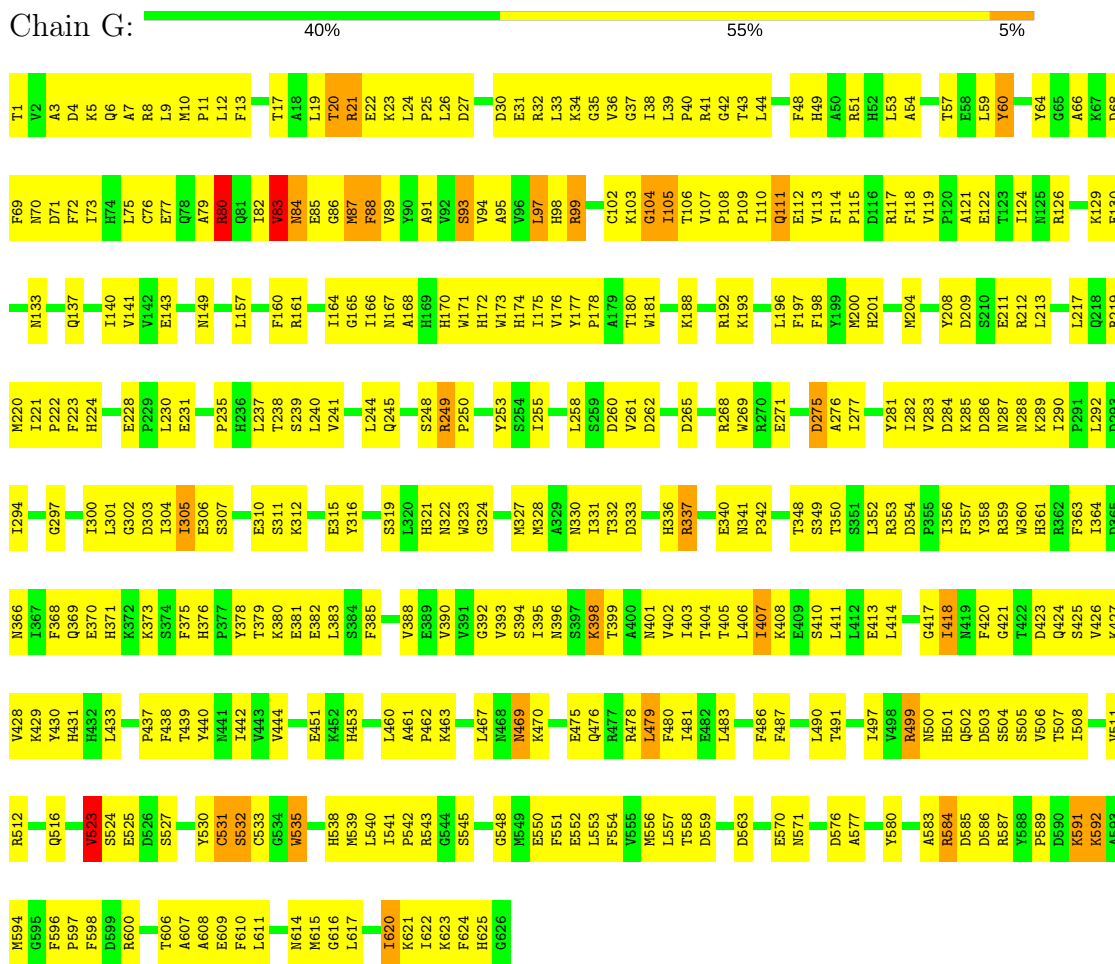


- Molecule 1: Hemocyanin AA6 chain

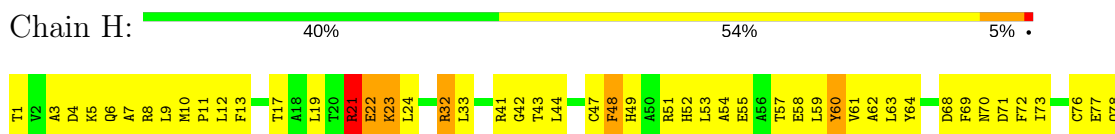
Chain F:  38% 58% .

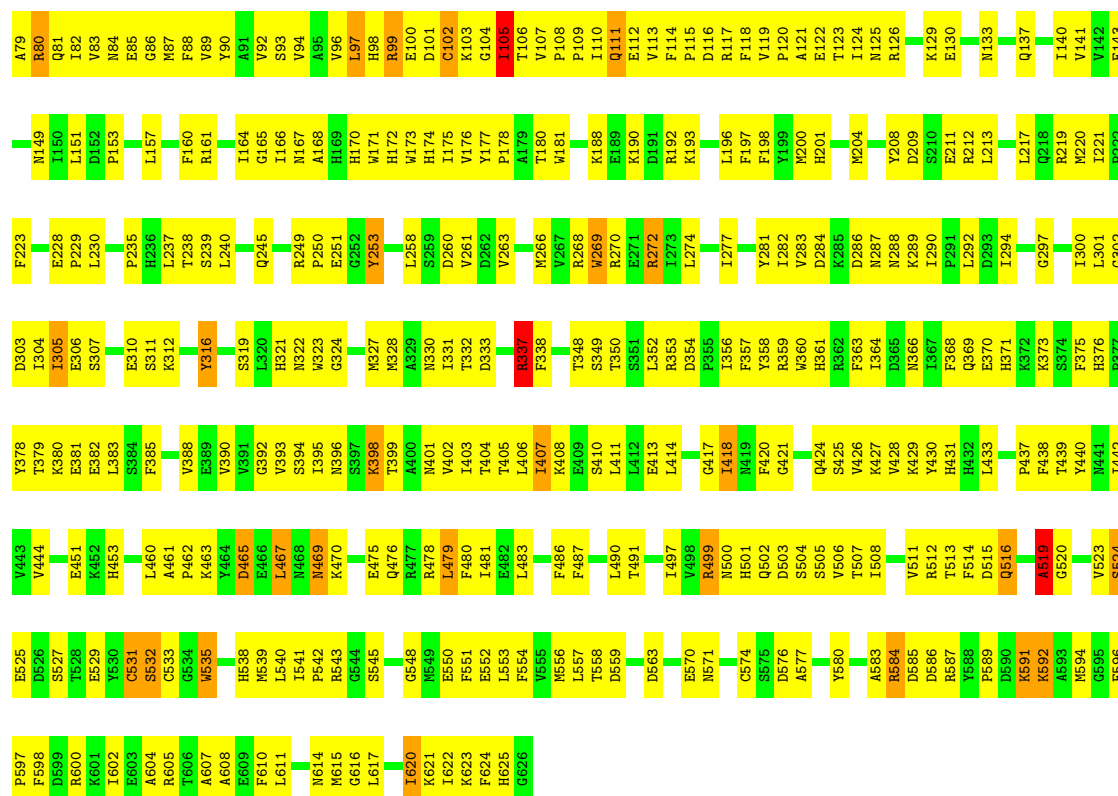


- Molecule 1: Hemocyanin AA6 chain

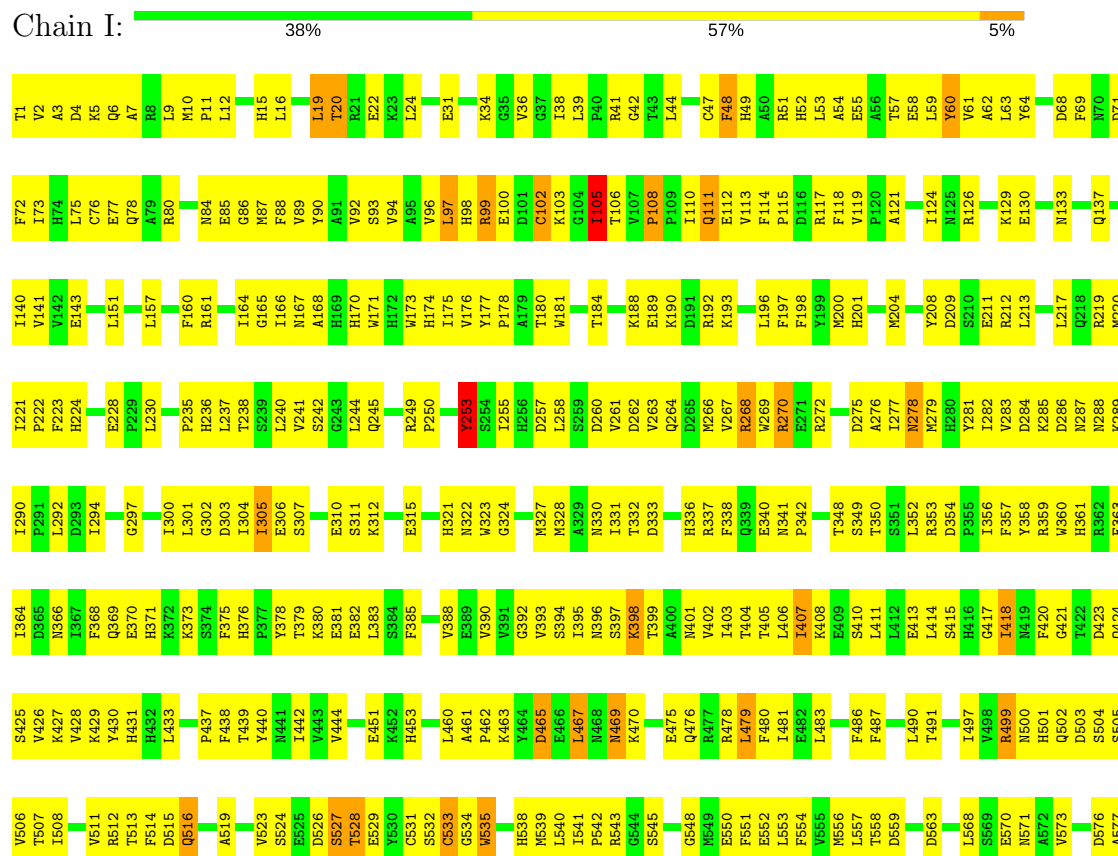


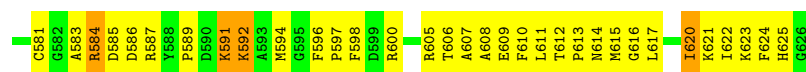
- Molecule 1: Hemocyanin AA6 chain





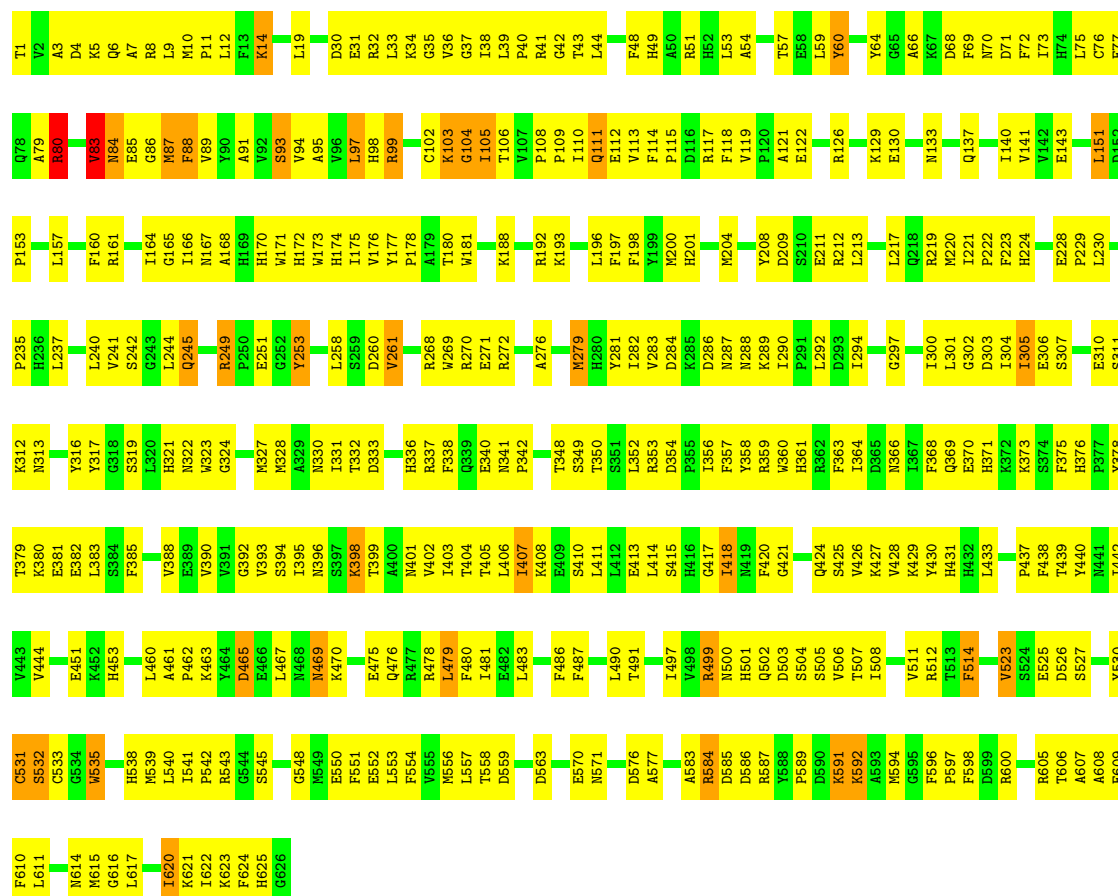
● Molecule 1: Hemocyanin AA6 chain





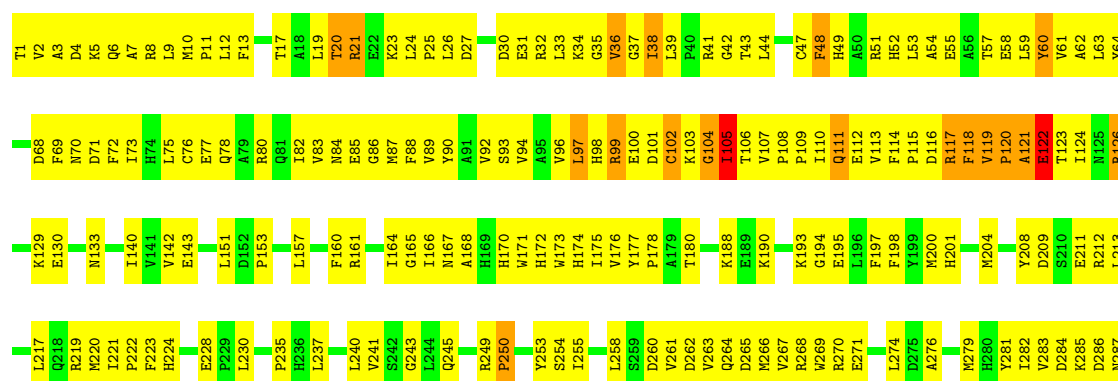
• Molecule 1: Hemocyanin AA6 chain

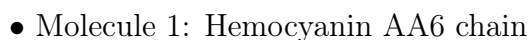
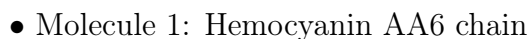
Chain J: 42% 52% 6%



• Molecule 1: Hemocyanin AA6 chain

Chain K: 37% 56% 6%








4 Experimental information

Property	Value	Source
Reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C	Depositor
Number of particles used	17500	Depositor
Resolution determination method	FSC at 0.5 cut-off	Depositor
CTF correction method	each micrograph	Depositor
Microscope	JEM3200FSC	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	18	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	3500	Depositor
Magnification	50000	Depositor
Image detector	Kodak SO163 film	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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	$\# Z > 2$	RMSZ	$\# Z > 2$
1	A	0.94	1/5191 (0.0%)	1.19	21/7033 (0.3%)
1	C	0.90	0/5191	1.21	30/7033 (0.4%)
1	D	1.75	6/5191 (0.1%)	1.18	22/7033 (0.3%)
1	E	1.32	3/5191 (0.1%)	1.24	27/7033 (0.4%)
1	F	0.90	0/5191	1.18	23/7033 (0.3%)
1	G	0.89	0/5191	1.18	19/7033 (0.3%)
1	H	1.73	7/5191 (0.1%)	1.24	28/7033 (0.4%)
1	I	1.32	3/5191 (0.1%)	1.21	25/7033 (0.4%)
1	J	0.90	0/5191	1.19	20/7033 (0.3%)
1	K	0.91	1/5191 (0.0%)	1.26	32/7033 (0.5%)
1	L	0.90	0/5191	1.20	23/7033 (0.3%)
1	M	0.91	1/5191 (0.0%)	1.24	27/7033 (0.4%)
All	All	1.16	22/62292 (0.0%)	1.21	297/84396 (0.4%)

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	C	0	5
1	D	0	2
1	E	0	6
1	F	0	6
1	G	0	10
1	H	0	7
1	I	0	4
1	J	0	11
1	K	0	6
1	L	0	8
1	M	0	13
All	All	0	81

All (22) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	253	TYR	CZ-OH	69.59	2.56	1.37
1	E	253	TYR	CZ-OH	68.02	2.53	1.37
1	D	253	TYR	CG-CD2	46.95	2.00	1.39
1	D	253	TYR	CE1-CZ	46.45	1.99	1.38
1	D	253	TYR	CE2-CZ	46.30	1.98	1.38
1	H	253	TYR	CE2-CZ	45.88	1.98	1.38
1	H	253	TYR	CG-CD2	45.26	1.98	1.39
1	D	253	TYR	CG-CD1	44.78	1.97	1.39
1	H	253	TYR	CE1-CZ	44.70	1.96	1.38
1	H	253	TYR	CG-CD1	43.87	1.96	1.39
1	D	253	TYR	CD2-CE2	40.19	1.99	1.39
1	H	253	TYR	CD2-CE2	40.14	1.99	1.39
1	H	253	TYR	CD1-CE1	38.94	1.97	1.39
1	D	253	TYR	CD1-CE1	38.68	1.97	1.39
1	M	519	ALA	C-N	-15.35	1.05	1.33
1	A	47	CYS	C-N	-15.05	0.99	1.34
1	H	519	ALA	C-N	-12.49	1.10	1.33
1	K	519	ALA	C-N	-10.52	1.14	1.33
1	E	253	TYR	CE2-CZ	7.75	1.48	1.38
1	I	253	TYR	CE2-CZ	7.70	1.48	1.38
1	E	253	TYR	CE1-CZ	7.55	1.48	1.38
1	I	253	TYR	CE1-CZ	7.39	1.48	1.38

All (297) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	519	ALA	O-C-N	-20.49	88.36	123.20
1	H	519	ALA	O-C-N	-20.01	89.19	123.20
1	M	519	ALA	O-C-N	-19.78	89.58	123.20
1	A	47	CYS	O-C-N	14.24	145.49	122.70
1	I	253	TYR	CE1-CZ-CE2	-12.27	100.17	119.80
1	I	253	TYR	CZ-CE2-CD2	12.22	130.79	119.80
1	E	253	TYR	CZ-CE2-CD2	12.18	130.76	119.80
1	E	253	TYR	CE1-CZ-CE2	-11.87	100.81	119.80
1	E	253	TYR	CD1-CE1-CZ	11.78	130.40	119.80
1	I	253	TYR	CD1-CE1-CZ	11.72	130.35	119.80
1	A	47	CYS	CA-C-N	-10.63	93.82	117.20
1	J	249	ARG	NE-CZ-NH2	-10.41	115.09	120.30
1	A	47	CYS	C-N-CA	-10.12	96.39	121.70
1	M	268	ARG	NE-CZ-NH1	10.02	125.31	120.30
1	H	337	ARG	NE-CZ-NH2	-9.95	115.33	120.30
1	M	519	ALA	CA-C-N	9.94	136.09	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	272	ARG	NE-CZ-NH2	-9.78	115.41	120.30
1	M	519	ALA	C-N-CA	9.28	141.79	122.30
1	K	519	ALA	CA-C-N	9.16	134.52	116.20
1	H	519	ALA	CA-C-N	9.12	134.44	116.20
1	E	535	TRP	CD1-CG-CD2	8.77	113.31	106.30
1	L	535	TRP	CD1-CG-CD2	8.74	113.30	106.30
1	J	535	TRP	CD1-CG-CD2	8.74	113.29	106.30
1	D	535	TRP	CD1-CG-CD2	8.71	113.27	106.30
1	G	535	TRP	CD1-CG-CD2	8.71	113.26	106.30
1	H	535	TRP	CD1-CG-CD2	8.70	113.26	106.30
1	M	535	TRP	CD1-CG-CD2	8.70	113.26	106.30
1	A	535	TRP	CD1-CG-CD2	8.69	113.25	106.30
1	F	535	TRP	CD1-CG-CD2	8.69	113.25	106.30
1	C	535	TRP	CD1-CG-CD2	8.68	113.24	106.30
1	K	535	TRP	CD1-CG-CD2	8.68	113.24	106.30
1	H	272	ARG	NE-CZ-NH2	-8.67	115.97	120.30
1	I	535	TRP	CD1-CG-CD2	8.54	113.14	106.30
1	K	519	ALA	C-N-CA	8.48	140.10	122.30
1	H	519	ALA	C-N-CA	8.44	140.02	122.30
1	L	249	ARG	NE-CZ-NH2	-8.37	116.11	120.30
1	K	122	GLU	CA-C-N	8.12	135.07	117.20
1	M	268	ARG	NE-CZ-NH2	-8.08	116.26	120.30
1	K	337	ARG	NE-CZ-NH1	7.95	124.27	120.30
1	H	535	TRP	CE2-CD2-CG	-7.87	101.00	107.30
1	M	535	TRP	CE2-CD2-CG	-7.86	101.02	107.30
1	C	535	TRP	CE2-CD2-CG	-7.84	101.03	107.30
1	F	535	TRP	CE2-CD2-CG	-7.83	101.04	107.30
1	D	535	TRP	CE2-CD2-CG	-7.82	101.04	107.30
1	E	535	TRP	CE2-CD2-CG	-7.82	101.04	107.30
1	L	535	TRP	CE2-CD2-CG	-7.82	101.05	107.30
1	J	535	TRP	CE2-CD2-CG	-7.82	101.05	107.30
1	A	535	TRP	CE2-CD2-CG	-7.80	101.06	107.30
1	G	535	TRP	CE2-CD2-CG	-7.76	101.09	107.30
1	K	535	TRP	CE2-CD2-CG	-7.74	101.11	107.30
1	I	535	TRP	CE2-CD2-CG	-7.74	101.11	107.30
1	C	269	TRP	CD1-CG-CD2	7.73	112.48	106.30
1	D	526	ASP	CA-C-N	7.63	133.99	117.20
1	E	526	ASP	CA-C-N	7.60	133.92	117.20
1	C	526	ASP	CA-C-N	7.59	133.90	117.20
1	L	526	ASP	CA-C-N	7.58	133.88	117.20
1	M	269	TRP	CD1-CG-CD2	7.58	112.36	106.30
1	K	526	ASP	CA-C-N	7.58	133.87	117.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	269	TRP	CD1-CG-CD2	7.58	112.36	106.30
1	A	526	ASP	CA-C-N	7.57	133.84	117.20
1	D	269	TRP	CD1-CG-CD2	7.56	112.35	106.30
1	E	269	TRP	CD1-CG-CD2	7.48	112.28	106.30
1	F	269	TRP	CD1-CG-CD2	7.46	112.27	106.30
1	H	269	TRP	CD1-CG-CD2	7.46	112.27	106.30
1	I	269	TRP	CD1-CG-CD2	7.42	112.24	106.30
1	G	269	TRP	CE2-CD2-CG	-7.41	101.38	107.30
1	J	269	TRP	CD1-CG-CD2	7.40	112.22	106.30
1	C	269	TRP	CE2-CD2-CG	-7.38	101.40	107.30
1	M	269	TRP	CE2-CD2-CG	-7.36	101.41	107.30
1	L	269	TRP	CD1-CG-CD2	7.35	112.18	106.30
1	D	269	TRP	CE2-CD2-CG	-7.33	101.44	107.30
1	H	269	TRP	CE2-CD2-CG	-7.32	101.44	107.30
1	F	269	TRP	CE2-CD2-CG	-7.30	101.46	107.30
1	E	269	TRP	CE2-CD2-CG	-7.30	101.46	107.30
1	L	337	ARG	NE-CZ-NH2	-7.27	116.67	120.30
1	I	269	TRP	CE2-CD2-CG	-7.26	101.49	107.30
1	A	269	TRP	CD1-CG-CD2	7.26	112.11	106.30
1	A	269	TRP	CE2-CD2-CG	-7.19	101.55	107.30
1	K	269	TRP	CD1-CG-CD2	7.18	112.05	106.30
1	J	269	TRP	CE2-CD2-CG	-7.18	101.56	107.30
1	K	269	TRP	CE2-CD2-CG	-7.14	101.59	107.30
1	M	272	ARG	NE-CZ-NH2	-7.06	116.77	120.30
1	I	528	THR	CB-CA-C	-7.03	92.63	111.60
1	H	253	TYR	CB-CG-CD1	-6.97	116.82	121.00
1	E	305	ILE	CA-C-N	6.95	132.48	117.20
1	C	587	ARG	NE-CZ-NH2	-6.84	116.88	120.30
1	D	532	SER	N-CA-CB	-6.80	100.31	110.50
1	E	532	SER	N-CA-CB	-6.79	100.31	110.50
1	F	532	SER	N-CA-CB	-6.79	100.31	110.50
1	M	532	SER	N-CA-CB	-6.79	100.32	110.50
1	A	532	SER	N-CA-CB	-6.78	100.33	110.50
1	J	532	SER	N-CA-CB	-6.78	100.33	110.50
1	G	523	VAL	O-C-N	-6.78	111.86	122.70
1	H	532	SER	N-CA-CB	-6.78	100.34	110.50
1	I	272	ARG	NE-CZ-NH2	-6.74	116.93	120.30
1	K	532	SER	N-CA-CB	-6.73	100.40	110.50
1	C	532	SER	N-CA-CB	-6.73	100.41	110.50
1	G	532	SER	N-CA-CB	-6.73	100.40	110.50
1	L	269	TRP	CE2-CD2-CG	-6.71	101.93	107.30
1	L	532	SER	N-CA-CB	-6.70	100.45	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	239	SER	O-C-N	6.56	133.20	122.70
1	M	239	SER	O-C-N	6.55	133.18	122.70
1	A	60	TYR	CB-CG-CD2	-6.55	117.07	121.00
1	C	281	TYR	CB-CG-CD2	-6.51	117.09	121.00
1	F	60	TYR	CB-CG-CD2	-6.51	117.09	121.00
1	M	523	VAL	O-C-N	-6.51	112.28	122.70
1	L	60	TYR	CB-CG-CD2	-6.48	117.11	121.00
1	E	60	TYR	CB-CG-CD2	-6.48	117.11	121.00
1	C	585	ASP	CB-CG-OD2	6.48	124.13	118.30
1	E	60	TYR	CB-CA-C	-6.47	97.45	110.40
1	K	60	TYR	CB-CA-C	-6.47	97.45	110.40
1	A	60	TYR	CB-CA-C	-6.47	97.46	110.40
1	C	60	TYR	CB-CA-C	-6.47	97.47	110.40
1	D	60	TYR	CB-CA-C	-6.47	97.47	110.40
1	F	60	TYR	CB-CA-C	-6.47	97.47	110.40
1	I	60	TYR	CB-CA-C	-6.46	97.47	110.40
1	L	60	TYR	CB-CA-C	-6.46	97.47	110.40
1	F	239	SER	O-C-N	6.46	133.03	122.70
1	C	239	SER	O-C-N	6.46	133.03	122.70
1	H	60	TYR	CB-CA-C	-6.45	97.51	110.40
1	D	60	TYR	CB-CG-CD2	-6.43	117.14	121.00
1	H	60	TYR	CB-CG-CD2	-6.42	117.15	121.00
1	I	60	TYR	CB-CG-CD2	-6.41	117.15	121.00
1	K	60	TYR	CB-CG-CD2	-6.40	117.16	121.00
1	C	60	TYR	CB-CG-CD2	-6.36	117.18	121.00
1	M	36	VAL	CG1-CB-CG2	6.28	120.94	110.90
1	D	239	SER	O-C-N	6.24	132.69	122.70
1	E	295	GLU	CA-CB-CG	6.17	126.97	113.40
1	J	526	ASP	CA-C-N	6.17	130.76	117.20
1	F	337	ARG	NE-CZ-NH2	-6.15	117.23	120.30
1	C	272	ARG	NE-CZ-NH2	-6.14	117.23	120.30
1	K	36	VAL	CG1-CB-CG2	6.13	120.72	110.90
1	I	528	THR	N-CA-CB	6.13	121.94	110.30
1	J	249	ARG	NE-CZ-NH1	6.06	123.33	120.30
1	E	303	ASP	CA-C-N	5.99	130.37	117.20
1	H	239	SER	O-C-N	5.94	132.21	122.70
1	F	126	ARG	NE-CZ-NH1	5.92	123.26	120.30
1	H	270	ARG	NE-CZ-NH2	-5.88	117.36	120.30
1	J	523	VAL	O-C-N	-5.87	113.30	122.70
1	I	268	ARG	CB-CG-CD	-5.87	96.34	111.60
1	G	337	ARG	NE-CZ-NH2	-5.79	117.41	120.30
1	I	105	ILE	CB-CA-C	5.68	122.97	111.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	126	ARG	NE-CZ-NH1	5.68	123.14	120.30
1	K	531	CYS	C-N-CA	5.66	135.85	121.70
1	L	531	CYS	C-N-CA	5.64	135.81	121.70
1	A	531	CYS	C-N-CA	5.64	135.79	121.70
1	C	531	CYS	C-N-CA	5.63	135.79	121.70
1	M	531	CYS	C-N-CA	5.63	135.77	121.70
1	F	531	CYS	C-N-CA	5.62	135.75	121.70
1	G	531	CYS	C-N-CA	5.62	135.74	121.70
1	K	117	ARG	O-C-N	-5.62	113.72	122.70
1	H	531	CYS	C-N-CA	5.61	135.73	121.70
1	J	531	CYS	C-N-CA	5.61	135.72	121.70
1	E	531	CYS	C-N-CA	5.61	135.72	121.70
1	D	531	CYS	C-N-CA	5.61	135.71	121.70
1	J	242	SER	CA-C-N	5.58	127.37	116.20
1	E	303	ASP	CB-CA-C	5.57	121.53	110.40
1	H	105	ILE	N-CA-C	5.57	126.02	111.00
1	C	574	CYS	C-N-CA	-5.56	107.79	121.70
1	C	105	ILE	N-CA-C	5.56	126.02	111.00
1	C	587	ARG	NE-CZ-NH1	5.56	123.08	120.30
1	E	105	ILE	N-CA-C	5.56	126.00	111.00
1	J	84	ASN	N-CA-CB	-5.56	100.59	110.60
1	A	105	ILE	N-CA-C	5.55	126.00	111.00
1	F	105	ILE	N-CA-C	5.55	126.00	111.00
1	L	105	ILE	N-CA-C	5.55	125.99	111.00
1	K	105	ILE	N-CA-C	5.54	125.96	111.00
1	M	84	ASN	N-CA-CB	-5.54	100.62	110.60
1	C	34	LYS	N-CA-C	5.54	125.95	111.00
1	C	281	TYR	CA-CB-CG	5.54	123.92	113.40
1	D	105	ILE	N-CA-C	5.54	125.95	111.00
1	D	239	SER	CA-C-N	-5.53	105.03	117.20
1	G	84	ASN	N-CA-CB	-5.53	100.64	110.60
1	D	151	LEU	CA-CB-CG	5.51	127.97	115.30
1	H	239	SER	CA-C-N	-5.51	105.08	117.20
1	K	122	GLU	O-C-N	-5.50	113.90	122.70
1	M	83	VAL	N-CA-C	-5.44	96.31	111.00
1	F	126	ARG	NE-CZ-NH2	-5.44	117.58	120.30
1	K	126	ARG	NE-CZ-NH1	5.44	123.02	120.30
1	D	253	TYR	CB-CG-CD1	-5.44	117.74	121.00
1	E	151	LEU	CA-CB-CG	5.44	127.81	115.30
1	G	83	VAL	N-CA-C	-5.44	96.32	111.00
1	I	126	ARG	NE-CZ-NH2	-5.44	117.58	120.30
1	E	105	ILE	N-CA-CB	-5.43	98.30	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	105	ILE	N-CA-CB	-5.42	98.33	110.80
1	H	105	ILE	N-CA-CB	-5.42	98.33	110.80
1	L	105	ILE	N-CA-CB	-5.41	98.35	110.80
1	F	105	ILE	N-CA-CB	-5.41	98.37	110.80
1	J	83	VAL	N-CA-C	-5.41	96.40	111.00
1	M	249	ARG	NE-CZ-NH2	-5.40	117.60	120.30
1	C	105	ILE	N-CA-CB	-5.40	98.38	110.80
1	K	105	ILE	N-CA-CB	-5.39	98.41	110.80
1	D	105	ILE	N-CA-CB	-5.38	98.42	110.80
1	M	126	ARG	NE-CZ-NH1	5.38	122.99	120.30
1	D	479	LEU	CB-CA-C	-5.38	99.98	110.20
1	C	239	SER	CA-C-N	-5.38	105.37	117.20
1	L	535	TRP	CG-CD1-NE1	-5.37	104.73	110.10
1	A	479	LEU	CB-CA-C	-5.36	100.01	110.20
1	K	535	TRP	CG-CD1-NE1	-5.36	104.74	110.10
1	H	479	LEU	CB-CA-C	-5.36	100.02	110.20
1	L	479	LEU	CB-CA-C	-5.36	100.02	110.20
1	F	479	LEU	CB-CA-C	-5.36	100.03	110.20
1	C	479	LEU	CB-CA-C	-5.35	100.04	110.20
1	F	535	TRP	CG-CD1-NE1	-5.34	104.76	110.10
1	M	535	TRP	CG-CD1-NE1	-5.34	104.75	110.10
1	K	479	LEU	CB-CA-C	-5.34	100.05	110.20
1	E	535	TRP	CG-CD1-NE1	-5.34	104.76	110.10
1	G	535	TRP	CG-CD1-NE1	-5.33	104.77	110.10
1	E	479	LEU	CB-CA-C	-5.33	100.08	110.20
1	G	479	LEU	CB-CA-C	-5.33	100.08	110.20
1	J	479	LEU	CB-CA-C	-5.33	100.08	110.20
1	J	535	TRP	CG-CD1-NE1	-5.32	104.78	110.10
1	J	535	TRP	CG-CD2-CE3	5.32	138.69	133.90
1	E	535	TRP	CG-CD2-CE3	5.32	138.69	133.90
1	H	535	TRP	CG-CD1-NE1	-5.32	104.78	110.10
1	M	479	LEU	CB-CA-C	-5.32	100.10	110.20
1	I	479	LEU	CB-CA-C	-5.32	100.10	110.20
1	D	535	TRP	CG-CD1-NE1	-5.31	104.79	110.10
1	K	250	PRO	O-C-N	-5.30	114.22	122.70
1	A	535	TRP	CG-CD1-NE1	-5.30	104.80	110.10
1	C	535	TRP	CG-CD1-NE1	-5.30	104.80	110.10
1	F	239	SER	CA-C-N	-5.30	105.54	117.20
1	G	80	ARG	NE-CZ-NH2	-5.29	117.66	120.30
1	G	535	TRP	CG-CD2-CE3	5.29	138.66	133.90
1	C	262	ASP	CA-C-N	5.28	128.80	117.20
1	L	535	TRP	CG-CD2-CE3	5.27	138.65	133.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	527	SER	N-CA-C	5.27	125.24	111.00
1	D	535	TRP	CG-CD2-CE3	5.27	138.64	133.90
1	H	535	TRP	CG-CD2-CE3	5.27	138.64	133.90
1	I	99	ARG	CB-CA-C	-5.27	99.87	110.40
1	E	527	SER	N-CA-C	5.26	125.21	111.00
1	I	535	TRP	CG-CD1-NE1	-5.26	104.84	110.10
1	K	126	ARG	CA-CB-CG	5.26	124.97	113.40
1	D	527	SER	N-CA-C	5.25	125.18	111.00
1	G	523	VAL	CA-C-N	5.25	128.76	117.20
1	K	118	PHE	N-CA-C	5.25	125.19	111.00
1	L	527	SER	N-CA-C	5.25	125.18	111.00
1	C	535	TRP	CG-CD2-CE3	5.25	138.62	133.90
1	K	527	SER	N-CA-C	5.25	125.17	111.00
1	C	527	SER	N-CA-C	5.24	125.15	111.00
1	K	120	PRO	N-CA-C	5.24	125.72	112.10
1	A	99	ARG	CB-CA-C	-5.23	99.94	110.40
1	G	239	SER	CA-C-N	-5.23	105.69	117.20
1	F	535	TRP	CG-CD2-CE3	5.23	138.61	133.90
1	F	99	ARG	CB-CA-C	-5.23	99.94	110.40
1	K	99	ARG	CB-CA-C	-5.23	99.95	110.40
1	M	239	SER	CA-C-N	-5.22	105.71	117.20
1	H	99	ARG	CB-CA-C	-5.22	99.96	110.40
1	A	535	TRP	CG-CD2-CE3	5.21	138.59	133.90
1	M	535	TRP	CG-CD2-CE3	5.21	138.59	133.90
1	C	99	ARG	CB-CA-C	-5.21	99.98	110.40
1	E	242	SER	N-CA-CB	-5.21	102.69	110.50
1	K	535	TRP	CG-CD2-CE3	5.21	138.59	133.90
1	G	358	TYR	CA-CB-CG	-5.20	103.51	113.40
1	C	358	TYR	CA-CB-CG	-5.20	103.52	113.40
1	E	99	ARG	CB-CA-C	-5.20	100.00	110.40
1	K	358	TYR	CA-CB-CG	-5.20	103.52	113.40
1	M	80	ARG	NE-CZ-NH2	-5.20	117.70	120.30
1	H	358	TYR	CA-CB-CG	-5.19	103.53	113.40
1	F	358	TYR	CA-CB-CG	-5.19	103.54	113.40
1	I	527	SER	O-C-N	-5.19	114.40	122.70
1	K	122	GLU	CA-C-O	-5.19	109.21	120.10
1	I	102	CYS	N-CA-C	5.19	125.00	111.00
1	L	99	ARG	CB-CA-C	-5.18	100.04	110.40
1	A	358	TYR	CA-CB-CG	-5.18	103.56	113.40
1	D	99	ARG	CB-CA-C	-5.18	100.04	110.40
1	E	358	TYR	CA-CB-CG	-5.18	103.56	113.40
1	J	358	TYR	CA-CB-CG	-5.17	103.58	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	358	TYR	CA-CB-CG	-5.17	103.58	113.40
1	J	80	ARG	NE-CZ-NH2	-5.17	117.72	120.30
1	M	523	VAL	CA-C-N	5.16	128.56	117.20
1	L	358	TYR	CA-CB-CG	-5.16	103.60	113.40
1	D	358	TYR	CA-CB-CG	-5.15	103.61	113.40
1	I	535	TRP	CG-CD2-CE3	5.14	138.53	133.90
1	M	358	TYR	CA-CB-CG	-5.14	103.63	113.40
1	H	32	ARG	NE-CZ-NH1	5.12	122.86	120.30
1	J	151	LEU	CA-CB-CG	5.11	127.06	115.30
1	A	60	TYR	CB-CG-CD1	5.08	124.05	121.00
1	C	270	ARG	NE-CZ-NH1	5.07	122.84	120.30
1	F	60	TYR	CB-CG-CD1	5.06	124.04	121.00
1	G	60	TYR	CB-CG-CD2	-5.06	117.96	121.00
1	J	60	TYR	CB-CG-CD2	-5.06	117.96	121.00
1	I	268	ARG	NE-CZ-NH2	-5.03	117.78	120.30
1	L	244	LEU	CA-C-N	-5.03	106.13	117.20
1	D	60	TYR	CB-CG-CD1	5.03	124.02	121.00
1	L	60	TYR	CB-CG-CD1	5.03	124.02	121.00
1	C	48	PHE	CA-CB-CG	-5.03	101.83	113.90
1	H	21	ARG	NE-CZ-NH2	-5.02	117.79	120.30
1	F	269	TRP	CG-CD2-CE3	5.01	138.41	133.90
1	H	48	PHE	CA-CB-CG	-5.01	101.87	113.90
1	K	48	PHE	CA-CB-CG	-5.01	101.88	113.90
1	L	48	PHE	CA-CB-CG	-5.01	101.88	113.90
1	H	269	TRP	CG-CD2-CE3	5.01	138.41	133.90
1	I	48	PHE	CA-CB-CG	-5.01	101.88	113.90
1	L	253	TYR	N-CA-CB	5.01	119.61	110.60
1	F	48	PHE	CA-CB-CG	-5.00	101.89	113.90
1	M	48	PHE	CA-CB-CG	-5.00	101.89	113.90

There are no chirality outliers.

All (81) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	104	GLY	Peptide
1	A	270	ARG	Sidechain
1	A	523	VAL	Peptide
1	C	104	GLY	Peptide
1	C	253	TYR	Sidechain
1	C	281	TYR	Sidechain
1	C	523	VAL	Peptide
1	C	587	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	D	104	GLY	Peptide
1	D	523	VAL	Peptide
1	E	104	GLY	Peptide
1	E	253	TYR	Sidechain
1	E	306	GLU	Peptide
1	E	308	SER	Peptide
1	E	316	TYR	Sidechain
1	E	523	VAL	Peptide
1	F	104	GLY	Peptide
1	F	253	TYR	Sidechain
1	F	316	TYR	Sidechain
1	F	337	ARG	Sidechain
1	F	523	VAL	Peptide
1	F	529	GLU	Peptide
1	G	104	GLY	Peptide
1	G	249	ARG	Sidechain
1	G	253	TYR	Sidechain
1	G	316	TYR	Sidechain
1	G	337	ARG	Sidechain
1	G	523	VAL	Peptide
1	G	66	ALA	Peptide
1	G	80	ARG	Sidechain
1	G	83	VAL	Peptide
1	G	97	LEU	Peptide
1	H	104	GLY	Peptide
1	H	316	TYR	Sidechain
1	H	337	ARG	Sidechain
1	H	519	ALA	Mainchain
1	H	523	VAL	Peptide
1	H	524	SER	Peptide
1	H	80	ARG	Sidechain
1	I	20	THR	Peptide
1	I	253	TYR	Sidechain
1	I	268	ARG	Sidechain
1	I	270	ARG	Sidechain
1	J	104	GLY	Peptide
1	J	249	ARG	Sidechain
1	J	253	TYR	Sidechain
1	J	261	VAL	Mainchain
1	J	316	TYR	Sidechain
1	J	512	ARG	Sidechain
1	J	523	VAL	Peptide

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Mol	Chain	Res	Type	Group
1	J	66	ALA	Peptide
1	J	80	ARG	Sidechain
1	J	83	VAL	Peptide
1	J	97	LEU	Peptide
1	K	104	GLY	Peptide
1	K	122	GLU	Mainchain
1	K	253	TYR	Sidechain
1	K	316	TYR	Sidechain
1	K	519	ALA	Mainchain
1	K	523	VAL	Peptide
1	L	104	GLY	Peptide
1	L	249	ARG	Sidechain
1	L	251	GLU	Peptide
1	L	253	TYR	Sidechain
1	L	270	ARG	Sidechain
1	L	317	TYR	Sidechain
1	L	337	ARG	Sidechain
1	L	523	VAL	Peptide
1	M	104	GLY	Peptide
1	M	249	ARG	Sidechain
1	M	251	GLU	Peptide
1	M	268	ARG	Sidechain
1	M	272	ARG	Sidechain
1	M	337	ARG	Sidechain
1	M	35	GLY	Mainchain
1	M	519	ALA	Mainchain
1	M	523	VAL	Peptide
1	M	66	ALA	Peptide
1	M	80	ARG	Sidechain
1	M	83	VAL	Peptide
1	M	97	LEU	Peptide

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	5061	1123	4864	715	0
1	C	5061	1123	4865	656	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	D	5061	1123	4865	687	0
1	E	5061	1123	4865	685	0
1	F	5061	1123	4865	627	0
1	G	5061	1123	4865	611	0
1	H	5061	1123	4864	626	0
1	I	5061	1123	4865	645	0
1	J	5061	1123	4865	599	0
1	K	5061	1123	4864	604	0
1	L	5061	1123	4865	639	0
1	M	5061	1123	4864	603	0
All	All	60732	13476	58376	7547	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 63.

All (7547) 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:H:253:TYR:CE1	1:H:253:TYR:CZ	1.96	1.54
1:H:253:TYR:CD1	1:H:253:TYR:CG	1.96	1.53
1:D:253:TYR:CG	1:D:253:TYR:CD1	1.97	1.53
1:D:253:TYR:CE1	1:D:253:TYR:CD1	1.97	1.52
1:H:253:TYR:CD2	1:H:253:TYR:CG	1.98	1.52
1:H:253:TYR:CZ	1:H:253:TYR:CE2	1.98	1.52
1:D:253:TYR:CZ	1:D:253:TYR:CE1	1.98	1.51
1:D:253:TYR:CD2	1:D:253:TYR:CG	2.00	1.50
1:D:253:TYR:CZ	1:D:253:TYR:CE2	1.98	1.49
1:H:253:TYR:CE1	1:H:253:TYR:CD1	1.97	1.49
1:D:253:TYR:CD2	1:D:253:TYR:CE2	1.99	1.49
1:H:253:TYR:CD2	1:H:253:TYR:CE2	1.99	1.48
1:A:60:TYR:CE1	1:A:91:ALA:HA	1.57	1.39
1:A:36:VAL:HG11	1:A:59:LEU:CD2	1.65	1.26
1:A:611:LEU:HD21	1:A:617:LEU:HD13	1.20	1.19
1:K:611:LEU:HD21	1:K:617:LEU:HD13	1.20	1.19
1:E:605:ARG:HH22	1:G:38:ILE:CG2	1.54	1.18
1:J:59:LEU:CB	1:J:91:ALA:HB1	1.75	1.17
1:M:59:LEU:CB	1:M:91:ALA:HB1	1.75	1.16
1:E:30:ASP:HB3	1:E:33:LEU:HD13	1.28	1.16
1:G:59:LEU:CB	1:G:91:ALA:HB1	1.75	1.16
1:I:97:LEU:HD11	1:I:176:VAL:HG12	1.26	1.15
1:I:462:PRO:HG2	1:I:479:LEU:HD23	1.16	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:407:ILE:HD11	1:M:431:HIS:HB3	1.25	1.15
1:G:41:ARG:HA	1:G:84:ASN:HB2	1.27	1.15
1:H:611:LEU:HD21	1:H:617:LEU:HD13	1.20	1.15
1:C:38:ILE:HB	1:D:605:ARG:HH22	1.12	1.15
1:E:97:LEU:HD11	1:E:176:VAL:HG12	1.25	1.15
1:G:407:ILE:HD11	1:G:431:HIS:HB3	1.25	1.15
1:L:462:PRO:HG2	1:L:479:LEU:HD23	1.16	1.15
1:F:462:PRO:HG2	1:F:479:LEU:HD23	1.16	1.15
1:I:611:LEU:HD21	1:I:617:LEU:HD13	1.20	1.15
1:L:390:VAL:HG13	1:L:442:ILE:HD11	1.29	1.15
1:D:407:ILE:HD11	1:D:431:HIS:HB3	1.25	1.14
1:M:611:LEU:HD21	1:M:617:LEU:HD13	1.20	1.14
1:F:97:LEU:HD11	1:F:176:VAL:HG12	1.25	1.14
1:D:390:VAL:HG13	1:D:442:ILE:HD11	1.29	1.14
1:C:390:VAL:HG13	1:C:442:ILE:HD11	1.29	1.14
1:M:235:PRO:HB2	1:M:237:LEU:HD23	1.30	1.14
1:A:407:ILE:HD11	1:A:431:HIS:HB3	1.25	1.13
1:E:235:PRO:HB2	1:E:237:LEU:HD23	1.30	1.13
1:G:462:PRO:HG2	1:G:479:LEU:HD23	1.16	1.13
1:J:611:LEU:HD21	1:J:617:LEU:HD13	1.20	1.13
1:F:30:ASP:HB3	1:F:33:LEU:HD13	1.28	1.13
1:M:30:ASP:HB3	1:M:33:LEU:HD13	1.28	1.13
1:G:390:VAL:HG13	1:G:442:ILE:HD11	1.28	1.13
1:M:41:ARG:HA	1:M:84:ASN:HB2	1.27	1.13
1:J:110:ILE:HD11	1:J:168:ALA:HA	1.31	1.13
1:C:110:ILE:HD11	1:C:168:ALA:HA	1.30	1.12
1:A:30:ASP:HB3	1:A:33:LEU:HD13	1.28	1.12
1:H:462:PRO:HG2	1:H:479:LEU:HD23	1.16	1.12
1:H:390:VAL:HG13	1:H:442:ILE:HD11	1.29	1.12
1:J:407:ILE:HD11	1:J:431:HIS:HB3	1.25	1.12
1:L:97:LEU:HD11	1:L:176:VAL:HG12	1.24	1.12
1:C:611:LEU:HD21	1:C:617:LEU:HD13	1.20	1.12
1:E:390:VAL:HG13	1:E:442:ILE:HD11	1.29	1.12
1:E:611:LEU:HD21	1:E:617:LEU:HD13	1.20	1.12
1:I:235:PRO:HB2	1:I:237:LEU:HD23	1.30	1.12
1:J:41:ARG:HA	1:J:84:ASN:HB2	1.27	1.12
1:K:407:ILE:HD11	1:K:431:HIS:HB3	1.25	1.12
1:C:235:PRO:HB2	1:C:237:LEU:HD23	1.30	1.12
1:K:97:LEU:HD11	1:K:176:VAL:HG12	1.25	1.12
1:A:235:PRO:HB2	1:A:237:LEU:HD23	1.30	1.12
1:G:30:ASP:HB3	1:G:33:LEU:HD13	1.28	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:235:PRO:HB2	1:K:237:LEU:HD23	1.30	1.12
1:K:390:VAL:HG13	1:K:442:ILE:HD11	1.29	1.12
1:C:20:THR:HG21	1:C:41:ARG:HD3	1.30	1.11
1:F:235:PRO:HB2	1:F:237:LEU:HD23	1.30	1.11
1:H:97:LEU:HD11	1:H:176:VAL:HG12	1.25	1.11
1:C:462:PRO:HG2	1:C:479:LEU:HD23	1.16	1.11
1:C:97:LEU:HD11	1:C:176:VAL:HG12	1.26	1.11
1:D:235:PRO:HB2	1:D:237:LEU:HD23	1.30	1.11
1:H:407:ILE:HD11	1:H:431:HIS:HB3	1.25	1.11
1:L:20:THR:HG21	1:L:41:ARG:HD3	1.30	1.11
1:L:407:ILE:HD11	1:L:431:HIS:HB3	1.25	1.11
1:A:36:VAL:CG1	1:A:59:LEU:HD21	1.81	1.11
1:D:462:PRO:HG2	1:D:479:LEU:HD23	1.16	1.11
1:I:100:GLU:HA	1:I:527:SER:HB3	1.22	1.11
1:K:30:ASP:HB3	1:K:33:LEU:HD13	1.28	1.11
1:E:407:ILE:HD11	1:E:431:HIS:HB3	1.25	1.11
1:J:390:VAL:HG13	1:J:442:ILE:HD11	1.29	1.11
1:L:110:ILE:HD11	1:L:168:ALA:HA	1.31	1.11
1:D:30:ASP:HB3	1:D:33:LEU:HD13	1.28	1.11
1:G:611:LEU:HD21	1:G:617:LEU:HD13	1.20	1.11
1:A:390:VAL:HG13	1:A:442:ILE:HD11	1.29	1.10
1:H:235:PRO:HB2	1:H:237:LEU:HD23	1.30	1.10
1:G:110:ILE:HD11	1:G:168:ALA:HA	1.31	1.10
1:A:337:ARG:HA	1:C:151:LEU:HG	1.13	1.10
1:M:110:ILE:HD11	1:M:168:ALA:HA	1.31	1.10
1:A:462:PRO:HG2	1:A:479:LEU:HD23	1.16	1.10
1:G:235:PRO:HB2	1:G:237:LEU:HD23	1.30	1.10
1:F:20:THR:HG21	1:F:41:ARG:HD3	1.30	1.10
1:I:407:ILE:HD11	1:I:431:HIS:HB3	1.25	1.10
1:J:30:ASP:HB3	1:J:33:LEU:HD13	1.28	1.10
1:L:235:PRO:HB2	1:L:237:LEU:HD23	1.30	1.10
1:K:20:THR:HG21	1:K:41:ARG:HD3	1.30	1.09
1:M:20:THR:HG21	1:M:41:ARG:HD3	1.30	1.09
1:A:110:ILE:HD11	1:A:168:ALA:HA	1.31	1.09
1:D:97:LEU:HD11	1:D:176:VAL:HG12	1.25	1.09
1:K:462:PRO:HG2	1:K:479:LEU:HD23	1.16	1.09
1:L:30:ASP:HB3	1:L:33:LEU:HD13	1.28	1.09
1:L:611:LEU:HD21	1:L:617:LEU:HD13	1.20	1.09
1:D:20:THR:HG21	1:D:41:ARG:HD3	1.30	1.09
1:E:110:ILE:HD11	1:E:168:ALA:HA	1.30	1.09
1:M:390:VAL:HG13	1:M:442:ILE:HD11	1.29	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:407:ILE:HD11	1:C:431:HIS:HB3	1.25	1.09
1:F:390:VAL:HG13	1:F:442:ILE:HD11	1.29	1.08
1:F:611:LEU:HD21	1:F:617:LEU:HD13	1.20	1.08
1:A:20:THR:HG21	1:A:41:ARG:HD3	1.30	1.08
1:J:462:PRO:HG2	1:J:479:LEU:HD23	1.16	1.08
1:E:462:PRO:HG2	1:E:479:LEU:HD23	1.16	1.08
1:F:407:ILE:HD11	1:F:431:HIS:HB3	1.25	1.08
1:D:611:LEU:HD21	1:D:617:LEU:HD13	1.20	1.08
1:D:110:ILE:HD11	1:D:168:ALA:HA	1.31	1.08
1:I:110:ILE:HD11	1:I:168:ALA:HA	1.31	1.08
1:F:110:ILE:HD11	1:F:168:ALA:HA	1.30	1.07
1:I:390:VAL:HG13	1:I:442:ILE:HD11	1.29	1.07
1:H:110:ILE:HD11	1:H:168:ALA:HA	1.30	1.07
1:G:20:THR:HG21	1:G:41:ARG:HD3	1.30	1.07
1:E:20:THR:HG21	1:E:41:ARG:HD3	1.30	1.07
1:A:36:VAL:HG11	1:A:59:LEU:HD21	1.30	1.07
1:K:110:ILE:HD11	1:K:168:ALA:HA	1.30	1.07
1:J:235:PRO:HB2	1:J:237:LEU:HD23	1.30	1.06
1:A:60:TYR:CD1	1:A:91:ALA:HA	1.90	1.06
1:E:605:ARG:HH22	1:G:38:ILE:HG21	1.13	1.06
1:A:97:LEU:HD11	1:A:176:VAL:HG12	1.26	1.05
1:D:414:LEU:HB2	1:D:426:VAL:HG23	1.39	1.05
1:J:511:VAL:HA	1:J:531:CYS:HB2	1.05	1.05
1:L:453:HIS:HB3	1:L:487:PHE:HE1	1.22	1.05
1:M:511:VAL:HA	1:M:531:CYS:HB2	1.08	1.04
1:C:511:VAL:HA	1:C:531:CYS:HB2	1.06	1.04
1:G:511:VAL:HA	1:G:531:CYS:HB2	1.05	1.04
1:G:59:LEU:HD12	1:G:91:ALA:HB2	1.39	1.04
1:C:38:ILE:HB	1:D:605:ARG:NH2	1.72	1.04
1:K:511:VAL:HA	1:K:531:CYS:HB2	1.05	1.04
1:M:59:LEU:HD12	1:M:91:ALA:HB2	1.39	1.04
1:D:453:HIS:HB3	1:D:487:PHE:HE1	1.22	1.04
1:E:414:LEU:HB2	1:E:426:VAL:HG23	1.39	1.04
1:D:36:VAL:HG21	1:D:59:LEU:HD21	1.40	1.03
1:K:414:LEU:HB2	1:K:426:VAL:HG23	1.39	1.03
1:E:194:GLY:HA3	1:E:302:GLY:HA3	1.33	1.03
1:D:511:VAL:HA	1:D:531:CYS:HB2	1.05	1.03
1:E:511:VAL:HA	1:E:531:CYS:HB2	1.05	1.03
1:I:453:HIS:HB3	1:I:487:PHE:HE1	1.22	1.03
1:A:414:LEU:HB2	1:A:426:VAL:HG23	1.39	1.03
1:L:36:VAL:HG21	1:L:59:LEU:HD21	1.40	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:511:VAL:HA	1:F:531:CYS:HB2	1.05	1.03
1:A:36:VAL:CG2	1:A:59:LEU:HD21	1.88	1.03
1:K:453:HIS:HB3	1:K:487:PHE:HE1	1.22	1.03
1:G:414:LEU:HB2	1:G:426:VAL:HG23	1.39	1.03
1:J:453:HIS:HB3	1:J:487:PHE:HE1	1.22	1.03
1:M:414:LEU:HB2	1:M:426:VAL:HG23	1.39	1.02
1:J:59:LEU:HB2	1:J:91:ALA:HB1	1.39	1.02
1:C:453:HIS:HB3	1:C:487:PHE:HE1	1.22	1.02
1:L:511:VAL:HA	1:L:531:CYS:HB2	1.05	1.02
1:A:36:VAL:HG21	1:A:59:LEU:HD21	1.41	1.02
1:C:264:GLN:NE2	1:D:224:HIS:HE1	1.58	1.02
1:A:511:VAL:HA	1:A:531:CYS:HB2	1.05	1.02
1:A:453:HIS:HB3	1:A:487:PHE:HE1	1.22	1.01
1:F:36:VAL:HG21	1:F:59:LEU:HD21	1.40	1.01
1:M:453:HIS:HB3	1:M:487:PHE:HE1	1.22	1.01
1:F:453:HIS:HB3	1:F:487:PHE:HE1	1.22	1.01
1:G:59:LEU:HB2	1:G:91:ALA:HB1	1.39	1.01
1:F:414:LEU:HB2	1:F:426:VAL:HG23	1.39	1.01
1:E:453:HIS:HB3	1:E:487:PHE:HE1	1.22	1.01
1:G:36:VAL:HG21	1:G:59:LEU:HD21	1.40	1.01
1:I:264:GLN:NE2	1:J:224:HIS:HE1	1.57	1.01
1:I:38:ILE:HB	1:J:605:ARG:HH22	1.18	1.01
1:A:9:LEU:HD22	1:A:105:ILE:HD12	1.43	1.01
1:J:414:LEU:HB2	1:J:426:VAL:HG23	1.39	1.01
1:J:59:LEU:HD12	1:J:91:ALA:HB2	1.39	1.01
1:C:414:LEU:HB2	1:C:426:VAL:HG23	1.39	1.01
1:E:36:VAL:HG21	1:E:59:LEU:HD21	1.40	1.01
1:L:414:LEU:HB2	1:L:426:VAL:HG23	1.39	1.01
1:H:453:HIS:HB3	1:H:487:PHE:HE1	1.22	1.00
1:F:9:LEU:HD22	1:F:105:ILE:HD12	1.41	1.00
1:G:453:HIS:HB3	1:G:487:PHE:HE1	1.22	1.00
1:A:36:VAL:HG21	1:A:59:LEU:CG	1.91	1.00
1:K:9:LEU:HD22	1:K:105:ILE:HD12	1.41	1.00
1:H:511:VAL:HA	1:H:531:CYS:HB2	1.05	0.99
1:G:59:LEU:CB	1:G:91:ALA:CB	2.40	0.99
1:D:9:LEU:HD22	1:D:105:ILE:HD12	1.41	0.99
1:H:414:LEU:HB2	1:H:426:VAL:HG23	1.39	0.99
1:H:9:LEU:HD22	1:H:105:ILE:HD12	1.40	0.99
1:A:36:VAL:HG21	1:A:59:LEU:CD2	1.93	0.99
1:G:393:VAL:HG22	1:G:442:ILE:HD13	1.45	0.99
1:K:224:HIS:CE1	1:M:264:GLN:NE2	2.30	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:59:LEU:CB	1:M:91:ALA:CB	2.40	0.99
1:E:9:LEU:HD22	1:E:105:ILE:HD12	1.41	0.99
1:J:36:VAL:HG21	1:J:59:LEU:HD21	1.40	0.99
1:H:393:VAL:HG22	1:H:442:ILE:HD13	1.45	0.98
1:M:59:LEU:HB2	1:M:91:ALA:HB1	1.39	0.98
1:I:393:VAL:HG22	1:I:442:ILE:HD13	1.45	0.98
1:I:414:LEU:HB2	1:I:426:VAL:HG23	1.39	0.98
1:C:9:LEU:HD22	1:C:105:ILE:HD12	1.40	0.98
1:J:59:LEU:CB	1:J:91:ALA:CB	2.40	0.98
1:F:393:VAL:HG22	1:F:442:ILE:HD13	1.45	0.98
1:G:59:LEU:HB3	1:G:91:ALA:HB1	1.44	0.98
1:L:9:LEU:HD22	1:L:105:ILE:HD12	1.41	0.97
1:H:253:TYR:CZ	1:I:253:TYR:CZ	2.53	0.97
1:J:393:VAL:HG22	1:J:442:ILE:HD13	1.45	0.97
1:A:36:VAL:CB	1:A:59:LEU:HD21	1.94	0.97
1:C:264:GLN:NE2	1:D:224:HIS:CE1	2.31	0.97
1:A:453:HIS:HB3	1:A:487:PHE:CE1	2.00	0.97
1:L:453:HIS:HB3	1:L:487:PHE:CE1	2.00	0.97
1:M:59:LEU:HB3	1:M:91:ALA:HB1	1.44	0.96
1:A:393:VAL:HG22	1:A:442:ILE:HD13	1.45	0.96
1:D:253:TYR:CZ	1:E:253:TYR:OH	2.18	0.96
1:H:453:HIS:HB3	1:H:487:PHE:CE1	2.00	0.96
1:K:453:HIS:HB3	1:K:487:PHE:CE1	2.00	0.96
1:A:337:ARG:HA	1:C:151:LEU:CG	1.93	0.96
1:D:253:TYR:CE2	1:E:253:TYR:CZ	2.53	0.96
1:F:453:HIS:HB3	1:F:487:PHE:CE1	2.00	0.96
1:G:111:GLN:HA	1:G:118:PHE:CE1	2.01	0.96
1:G:453:HIS:HB3	1:G:487:PHE:CE1	2.00	0.96
1:I:453:HIS:HB3	1:I:487:PHE:CE1	2.00	0.96
1:A:111:GLN:HA	1:A:118:PHE:CE1	2.01	0.96
1:C:393:VAL:HG22	1:C:442:ILE:HD13	1.45	0.96
1:G:59:LEU:CD1	1:G:91:ALA:HB2	1.96	0.96
1:H:253:TYR:CD2	1:I:253:TYR:OH	2.18	0.96
1:K:393:VAL:HG22	1:K:442:ILE:HD13	1.45	0.96
1:C:453:HIS:HB3	1:C:487:PHE:CE1	2.00	0.96
1:D:253:TYR:CD2	1:E:253:TYR:OH	2.19	0.96
1:D:253:TYR:CE1	1:E:253:TYR:OH	2.19	0.96
1:E:453:HIS:HB3	1:E:487:PHE:CE1	2.00	0.96
1:A:36:VAL:CG1	1:A:59:LEU:CD2	2.38	0.96
1:D:453:HIS:HB3	1:D:487:PHE:CE1	2.00	0.96
1:L:111:GLN:HA	1:L:118:PHE:CE1	2.01	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:453:HIS:HB3	1:J:487:PHE:CE1	2.00	0.95
1:J:59:LEU:CD1	1:J:91:ALA:HB2	1.96	0.95
1:L:57:THR:HA	1:L:60:TYR:CD2	2.01	0.95
1:A:57:THR:HA	1:A:60:TYR:CD2	2.01	0.95
1:D:57:THR:HA	1:D:60:TYR:CD2	2.01	0.95
1:E:393:VAL:HG22	1:E:442:ILE:HD13	1.45	0.95
1:H:253:TYR:CG	1:I:253:TYR:OH	2.19	0.95
1:C:57:THR:HA	1:C:60:TYR:CD2	2.01	0.95
1:H:253:TYR:CD1	1:I:253:TYR:CZ	2.55	0.95
1:J:59:LEU:HB3	1:J:91:ALA:HB1	1.45	0.95
1:M:453:HIS:HB3	1:M:487:PHE:CE1	2.00	0.95
1:C:111:GLN:HA	1:C:118:PHE:CE1	2.01	0.95
1:D:253:TYR:CG	1:E:253:TYR:OH	2.19	0.95
1:D:111:GLN:HA	1:D:118:PHE:CE1	2.01	0.95
1:F:57:THR:HA	1:F:60:TYR:CD2	2.01	0.95
1:H:253:TYR:CZ	1:I:253:TYR:OH	2.19	0.95
1:I:57:THR:HA	1:I:60:TYR:CD2	2.01	0.95
1:J:511:VAL:CA	1:J:531:CYS:HB2	1.97	0.95
1:D:253:TYR:CD1	1:E:253:TYR:CZ	2.54	0.95
1:E:57:THR:HA	1:E:60:TYR:CD2	2.01	0.95
1:G:118:PHE:CD2	1:G:164:ILE:HG13	2.02	0.95
1:I:118:PHE:CD2	1:I:164:ILE:HG13	2.01	0.95
1:M:111:GLN:HA	1:M:118:PHE:CE1	2.01	0.95
1:E:111:GLN:HA	1:E:118:PHE:CE1	2.01	0.95
1:H:111:GLN:HA	1:H:118:PHE:CE1	2.01	0.95
1:A:118:PHE:CD2	1:A:164:ILE:HG13	2.02	0.95
1:F:511:VAL:CA	1:F:531:CYS:HB2	1.97	0.95
1:I:264:GLN:NE2	1:J:224:HIS:CE1	2.33	0.95
1:D:253:TYR:CD1	1:E:253:TYR:OH	2.19	0.95
1:E:118:PHE:CD2	1:E:164:ILE:HG13	2.01	0.95
1:F:69:PHE:HE1	1:F:102:CYS:HG	1.12	0.95
1:H:253:TYR:CE1	1:I:253:TYR:CZ	2.55	0.95
1:H:253:TYR:CG	1:I:253:TYR:CZ	2.53	0.95
1:K:57:THR:HA	1:K:60:TYR:CD2	2.01	0.95
1:F:118:PHE:CD2	1:F:164:ILE:HG13	2.02	0.95
1:J:118:PHE:CD2	1:J:164:ILE:HG13	2.01	0.95
1:J:59:LEU:CD1	1:J:91:ALA:CB	2.45	0.95
1:D:253:TYR:CD2	1:E:253:TYR:CZ	2.55	0.94
1:D:511:VAL:CA	1:D:531:CYS:HB2	1.97	0.94
1:D:253:TYR:CE2	1:E:253:TYR:OH	2.20	0.94
1:F:111:GLN:HA	1:F:118:PHE:CE1	2.01	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:111:GLN:HA	1:I:118:PHE:CE1	2.01	0.94
1:C:118:PHE:CD2	1:C:164:ILE:HG13	2.02	0.94
1:F:406:LEU:HG	1:F:625:HIS:HB3	1.49	0.94
1:G:59:LEU:CD1	1:G:91:ALA:CB	2.45	0.94
1:H:253:TYR:CE1	1:I:253:TYR:OH	2.19	0.94
1:K:511:VAL:CA	1:K:531:CYS:HB2	1.97	0.94
1:L:393:VAL:HG22	1:L:442:ILE:HD13	1.45	0.94
1:M:393:VAL:HG22	1:M:442:ILE:HD13	1.45	0.94
1:H:57:THR:HA	1:H:60:TYR:CD2	2.01	0.94
1:J:111:GLN:HA	1:J:118:PHE:CE1	2.01	0.94
1:K:406:LEU:HG	1:K:625:HIS:HB3	1.50	0.94
1:A:406:LEU:HG	1:A:625:HIS:HB3	1.49	0.94
1:I:38:ILE:HB	1:J:605:ARG:NH2	1.83	0.94
1:H:118:PHE:CD2	1:H:164:ILE:HG13	2.02	0.94
1:M:59:LEU:CD1	1:M:91:ALA:HB2	1.96	0.94
1:D:393:VAL:HG22	1:D:442:ILE:HD13	1.45	0.94
1:H:513:THR:H	1:H:516:GLN:HG3	1.33	0.94
1:L:20:THR:HG21	1:L:41:ARG:CD	1.98	0.94
1:M:118:PHE:CD2	1:M:164:ILE:HG13	2.01	0.94
1:D:118:PHE:CD2	1:D:164:ILE:HG13	2.01	0.94
1:H:253:TYR:CD2	1:I:253:TYR:CZ	2.56	0.94
1:H:253:TYR:CE2	1:I:253:TYR:CZ	2.55	0.94
1:M:59:LEU:CD1	1:M:91:ALA:CB	2.45	0.94
1:D:253:TYR:CG	1:E:253:TYR:CZ	2.56	0.94
1:I:506:VAL:HG23	1:I:507:THR:HG23	1.50	0.94
1:E:20:THR:HG21	1:E:41:ARG:CD	1.98	0.94
1:M:511:VAL:CA	1:M:531:CYS:HB2	1.98	0.94
1:D:406:LEU:HG	1:D:625:HIS:HB3	1.49	0.94
1:G:20:THR:HG21	1:G:41:ARG:CD	1.98	0.93
1:H:253:TYR:CD1	1:I:253:TYR:OH	2.20	0.93
1:J:406:LEU:HG	1:J:625:HIS:HB3	1.49	0.93
1:K:20:THR:HG21	1:K:41:ARG:CD	1.98	0.93
1:C:414:LEU:HB2	1:C:426:VAL:CG2	1.99	0.93
1:H:511:VAL:CA	1:H:531:CYS:HB2	1.96	0.93
1:A:20:THR:HG21	1:A:41:ARG:CD	1.98	0.93
1:K:506:VAL:HG23	1:K:507:THR:HG23	1.50	0.93
1:M:513:THR:H	1:M:516:GLN:HG3	1.33	0.93
1:C:20:THR:HG21	1:C:41:ARG:CD	1.98	0.93
1:E:406:LEU:HG	1:E:625:HIS:HB3	1.49	0.93
1:K:414:LEU:HB2	1:K:426:VAL:CG2	1.99	0.93
1:K:224:HIS:HE1	1:M:264:GLN:HE21	1.12	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:253:TYR:CE1	1:E:253:TYR:CZ	2.56	0.93
1:H:253:TYR:CE2	1:I:253:TYR:OH	2.18	0.93
1:L:118:PHE:CD2	1:L:164:ILE:HG13	2.02	0.93
1:D:506:VAL:HG23	1:D:507:THR:HG23	1.50	0.93
1:K:282:ILE:HG23	1:K:292:LEU:HD11	1.51	0.93
1:A:511:VAL:CA	1:A:531:CYS:HB2	1.97	0.93
1:D:20:THR:HG21	1:D:41:ARG:CD	1.98	0.93
1:M:506:VAL:HG23	1:M:507:THR:HG23	1.50	0.93
1:H:406:LEU:HG	1:H:625:HIS:HB3	1.49	0.93
1:L:511:VAL:CA	1:L:531:CYS:HB2	1.97	0.93
1:D:253:TYR:CZ	1:E:253:TYR:CZ	2.56	0.93
1:F:20:THR:HG21	1:F:41:ARG:CD	1.98	0.93
1:I:406:LEU:HG	1:I:625:HIS:HB3	1.50	0.93
1:J:414:LEU:HB2	1:J:426:VAL:CG2	1.99	0.93
1:M:414:LEU:HB2	1:M:426:VAL:CG2	1.99	0.93
1:C:69:PHE:HE1	1:C:102:CYS:HG	1.07	0.92
1:G:414:LEU:HB2	1:G:426:VAL:CG2	1.99	0.92
1:I:513:THR:H	1:I:516:GLN:HG3	1.33	0.92
1:C:264:GLN:HE22	1:D:224:HIS:CE1	1.87	0.92
1:L:406:LEU:HG	1:L:625:HIS:HB3	1.49	0.92
1:M:20:THR:HG21	1:M:41:ARG:CD	1.98	0.92
1:E:414:LEU:HB2	1:E:426:VAL:CG2	1.99	0.92
1:A:506:VAL:HG23	1:A:507:THR:HG23	1.50	0.92
1:H:506:VAL:HG23	1:H:507:THR:HG23	1.50	0.92
1:M:9:LEU:HD11	1:M:69:PHE:HZ	1.35	0.92
1:C:511:VAL:CA	1:C:531:CYS:HB2	1.97	0.92
1:C:38:ILE:CB	1:D:605:ARG:HH22	1.81	0.92
1:D:9:LEU:HD11	1:D:69:PHE:HZ	1.35	0.92
1:I:100:GLU:CA	1:I:527:SER:HB3	1.98	0.92
1:E:511:VAL:CA	1:E:531:CYS:HB2	1.97	0.92
1:F:506:VAL:HG23	1:F:507:THR:HG23	1.50	0.92
1:L:506:VAL:HG23	1:L:507:THR:HG23	1.50	0.92
1:C:506:VAL:HG23	1:C:507:THR:HG23	1.50	0.91
1:E:605:ARG:NH2	1:G:38:ILE:HG21	1.83	0.91
1:G:506:VAL:HG23	1:G:507:THR:HG23	1.50	0.91
1:I:414:LEU:HB2	1:I:426:VAL:CG2	1.99	0.91
1:C:406:LEU:HG	1:C:625:HIS:HB3	1.50	0.91
1:G:511:VAL:CA	1:G:531:CYS:HB2	1.97	0.91
1:H:414:LEU:HB2	1:H:426:VAL:CG2	1.99	0.91
1:K:513:THR:H	1:K:516:GLN:HG3	1.33	0.91
1:M:406:LEU:HG	1:M:625:HIS:HB3	1.49	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:414:LEU:HB2	1:A:426:VAL:CG2	1.99	0.91
1:L:414:LEU:HB2	1:L:426:VAL:CG2	1.99	0.91
1:C:176:VAL:HG23	1:C:177:TYR:CD1	2.06	0.91
1:F:176:VAL:HG23	1:F:177:TYR:CD1	2.06	0.91
1:F:414:LEU:HB2	1:F:426:VAL:CG2	1.99	0.91
1:A:20:THR:HG22	1:A:21:ARG:H	1.36	0.91
1:D:414:LEU:HB2	1:D:426:VAL:CG2	1.99	0.91
1:H:399:THR:HB	1:H:402:VAL:CG2	2.01	0.91
1:L:20:THR:HG22	1:L:21:ARG:H	1.36	0.91
1:M:176:VAL:HG23	1:M:177:TYR:CD1	2.06	0.91
1:D:399:THR:HB	1:D:402:VAL:CG2	2.01	0.91
1:I:399:THR:HB	1:I:402:VAL:CG2	2.01	0.91
1:J:176:VAL:HG23	1:J:177:TYR:CD1	2.06	0.91
1:J:506:VAL:HG23	1:J:507:THR:HG23	1.50	0.91
1:K:176:VAL:HG23	1:K:177:TYR:CD1	2.06	0.91
1:L:399:THR:HB	1:L:402:VAL:CG2	2.01	0.91
1:K:9:LEU:HD11	1:K:69:PHE:HZ	1.35	0.90
1:F:399:THR:HB	1:F:402:VAL:CG2	2.01	0.90
1:G:406:LEU:HG	1:G:625:HIS:HB3	1.49	0.90
1:A:176:VAL:HG23	1:A:177:TYR:CD1	2.06	0.90
1:E:176:VAL:HG23	1:E:177:TYR:CD1	2.06	0.90
1:E:399:THR:HB	1:E:402:VAL:CG2	2.01	0.90
1:E:506:VAL:HG23	1:E:507:THR:HG23	1.50	0.90
1:G:59:LEU:HB2	1:G:91:ALA:CB	2.00	0.90
1:L:407:ILE:HD11	1:L:431:HIS:CB	2.02	0.90
1:C:399:THR:HB	1:C:402:VAL:CG2	2.01	0.90
1:K:407:ILE:HD11	1:K:431:HIS:CB	2.01	0.90
1:L:176:VAL:HG23	1:L:177:TYR:CD1	2.06	0.90
1:G:399:THR:HB	1:G:402:VAL:CG2	2.01	0.90
1:H:9:LEU:HD11	1:H:69:PHE:HZ	1.35	0.90
1:D:176:VAL:HG23	1:D:177:TYR:CD1	2.06	0.90
1:G:407:ILE:HD11	1:G:431:HIS:CB	2.02	0.90
1:I:176:VAL:HG23	1:I:177:TYR:CD1	2.06	0.90
1:M:399:THR:HB	1:M:402:VAL:CG2	2.01	0.90
1:L:9:LEU:HD11	1:L:69:PHE:HZ	1.35	0.90
1:I:407:ILE:HD11	1:I:431:HIS:CB	2.02	0.90
1:F:9:LEU:HD11	1:F:69:PHE:HZ	1.35	0.90
1:C:407:ILE:HD11	1:C:431:HIS:CB	2.02	0.89
1:C:9:LEU:HD11	1:C:69:PHE:HZ	1.35	0.89
1:E:407:ILE:HD11	1:E:431:HIS:CB	2.01	0.89
1:F:407:ILE:HD11	1:F:431:HIS:CB	2.02	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:20:THR:HG22	1:G:21:ARG:H	1.36	0.89
1:H:176:VAL:HG23	1:H:177:TYR:CD1	2.06	0.89
1:G:176:VAL:HG23	1:G:177:TYR:CD1	2.06	0.89
1:J:9:LEU:HD11	1:J:69:PHE:HZ	1.35	0.89
1:M:59:LEU:HB2	1:M:91:ALA:CB	2.01	0.89
1:A:591:LYS:HE3	1:A:591:LYS:HA	1.55	0.89
1:H:407:ILE:HD11	1:H:431:HIS:CB	2.02	0.89
1:M:407:ILE:HD11	1:M:431:HIS:CB	2.02	0.89
1:A:407:ILE:HD11	1:A:431:HIS:CB	2.02	0.89
1:J:399:THR:HB	1:J:402:VAL:CG2	2.01	0.89
1:K:399:THR:HB	1:K:402:VAL:CG2	2.01	0.89
1:E:591:LYS:HE3	1:E:591:LYS:HA	1.55	0.89
1:E:9:LEU:HD11	1:E:69:PHE:HZ	1.35	0.89
1:I:59:LEU:HD12	1:I:87:MET:HG2	1.55	0.89
1:J:407:ILE:HD11	1:J:431:HIS:CB	2.02	0.89
1:C:591:LYS:HA	1:C:591:LYS:HE3	1.55	0.89
1:G:9:LEU:HD11	1:G:69:PHE:HZ	1.35	0.89
1:K:20:THR:HG22	1:K:21:ARG:H	1.36	0.89
1:D:407:ILE:HD11	1:D:431:HIS:CB	2.02	0.89
1:L:399:THR:HB	1:L:402:VAL:HG21	1.55	0.89
1:L:591:LYS:HA	1:L:591:LYS:HE3	1.55	0.89
1:D:591:LYS:HA	1:D:591:LYS:HE3	1.55	0.88
1:F:611:LEU:CD2	1:F:617:LEU:HD13	2.04	0.88
1:D:20:THR:HG22	1:D:21:ARG:H	1.36	0.88
1:E:20:THR:HG22	1:E:21:ARG:H	1.36	0.88
1:G:399:THR:HB	1:G:402:VAL:HG21	1.56	0.88
1:H:59:LEU:HD12	1:H:87:MET:HG2	1.54	0.88
1:J:611:LEU:CD2	1:J:617:LEU:HD13	2.04	0.88
1:D:119:VAL:HG11	1:D:428:VAL:HG11	1.56	0.88
1:F:20:THR:HG22	1:F:21:ARG:H	1.36	0.88
1:G:591:LYS:HA	1:G:591:LYS:HE3	1.55	0.88
1:J:59:LEU:HB2	1:J:91:ALA:CB	2.00	0.88
1:M:591:LYS:HE3	1:M:591:LYS:HA	1.55	0.88
1:C:453:HIS:HD1	1:C:487:PHE:HZ	1.21	0.88
1:K:59:LEU:HD12	1:K:87:MET:HG2	1.55	0.88
1:M:611:LEU:CD2	1:M:617:LEU:HD13	2.04	0.88
1:A:399:THR:HB	1:A:402:VAL:CG2	2.01	0.88
1:I:399:THR:HB	1:I:402:VAL:HG21	1.56	0.88
1:I:119:VAL:HG11	1:I:428:VAL:HG11	1.56	0.88
1:D:33:LEU:HD11	1:D:75:LEU:HD13	1.56	0.88
1:E:611:LEU:CD2	1:E:617:LEU:HD13	2.04	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:591:LYS:HE3	1:H:591:LYS:HA	1.55	0.88
1:K:390:VAL:CG1	1:K:442:ILE:HD11	2.04	0.88
1:L:33:LEU:HD11	1:L:75:LEU:HD13	1.56	0.88
1:A:390:VAL:CG1	1:A:442:ILE:HD11	2.04	0.88
1:C:119:VAL:HG11	1:C:428:VAL:HG11	1.56	0.88
1:C:390:VAL:CG1	1:C:442:ILE:HD11	2.04	0.88
1:D:399:THR:HB	1:D:402:VAL:HG21	1.56	0.88
1:H:17:THR:HA	1:H:41:ARG:HH22	1.38	0.88
1:J:390:VAL:CG1	1:J:442:ILE:HD11	2.04	0.88
1:K:224:HIS:HE1	1:M:264:GLN:NE2	1.68	0.88
1:C:461:ALA:HB2	1:C:480:PHE:CD1	2.09	0.88
1:F:591:LYS:HA	1:F:591:LYS:HE3	1.55	0.88
1:F:59:LEU:HD12	1:F:87:MET:HG2	1.55	0.88
1:H:69:PHE:HE1	1:H:102:CYS:HG	1.15	0.88
1:K:33:LEU:HD11	1:K:75:LEU:HD13	1.55	0.88
1:L:119:VAL:HG11	1:L:428:VAL:HG11	1.56	0.88
1:A:461:ALA:HB2	1:A:480:PHE:CD1	2.09	0.87
1:C:110:ILE:CD1	1:C:168:ALA:HA	2.04	0.87
1:D:611:LEU:CD2	1:D:617:LEU:HD13	2.04	0.87
1:F:390:VAL:CG1	1:F:442:ILE:HD11	2.04	0.87
1:F:461:ALA:HB2	1:F:480:PHE:CD1	2.10	0.87
1:F:9:LEU:HD11	1:F:69:PHE:CZ	2.10	0.87
1:G:33:LEU:HD11	1:G:75:LEU:HD13	1.56	0.87
1:I:461:ALA:HB2	1:I:480:PHE:CD1	2.10	0.87
1:M:390:VAL:CG1	1:M:442:ILE:HD11	2.04	0.87
1:G:461:ALA:HB2	1:G:480:PHE:CD1	2.10	0.87
1:K:97:LEU:HA	1:K:527:SER:HB2	1.56	0.87
1:L:611:LEU:CD2	1:L:617:LEU:HD13	2.04	0.87
1:M:399:THR:HB	1:M:402:VAL:HG21	1.56	0.87
1:A:399:THR:HB	1:A:402:VAL:HG21	1.55	0.87
1:A:97:LEU:HA	1:A:527:SER:HB2	1.56	0.87
1:H:399:THR:HB	1:H:402:VAL:HG21	1.56	0.87
1:H:9:LEU:HD11	1:H:69:PHE:CZ	2.09	0.87
1:K:110:ILE:CD1	1:K:168:ALA:HA	2.04	0.87
1:A:119:VAL:HG11	1:A:428:VAL:HG11	1.56	0.87
1:A:110:ILE:CD1	1:A:168:ALA:HA	2.04	0.87
1:F:119:VAL:HG11	1:F:428:VAL:HG11	1.56	0.87
1:G:30:ASP:CB	1:G:33:LEU:HD13	2.05	0.87
1:I:591:LYS:HE3	1:I:591:LYS:HA	1.55	0.87
1:K:111:GLN:HG2	1:K:164:ILE:HD11	1.57	0.87
1:C:611:LEU:CD2	1:C:617:LEU:HD13	2.04	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:9:LEU:HD11	1:E:69:PHE:CZ	2.09	0.87
1:G:9:LEU:HD11	1:G:69:PHE:CZ	2.10	0.87
1:K:30:ASP:CB	1:K:33:LEU:HD13	2.05	0.87
1:M:461:ALA:HB2	1:M:480:PHE:CD1	2.10	0.87
1:C:111:GLN:HG2	1:C:164:ILE:HD11	1.57	0.87
1:D:59:LEU:HD12	1:D:87:MET:HG2	1.55	0.87
1:E:390:VAL:CG1	1:E:442:ILE:HD11	2.04	0.87
1:F:30:ASP:CB	1:F:33:LEU:HD13	2.04	0.87
1:H:119:VAL:HG11	1:H:428:VAL:HG11	1.56	0.87
1:J:110:ILE:CD1	1:J:168:ALA:HA	2.04	0.87
1:J:399:THR:HB	1:J:402:VAL:HG21	1.56	0.87
1:D:390:VAL:CG1	1:D:442:ILE:HD11	2.04	0.87
1:F:511:VAL:HA	1:F:531:CYS:CB	2.01	0.87
1:G:110:ILE:CD1	1:G:168:ALA:HA	2.05	0.87
1:H:110:ILE:CD1	1:H:168:ALA:HA	2.04	0.87
1:J:30:ASP:CB	1:J:33:LEU:HD13	2.05	0.87
1:J:591:LYS:HA	1:J:591:LYS:HE3	1.55	0.87
1:J:59:LEU:HD13	1:J:91:ALA:HB3	1.57	0.87
1:K:9:LEU:HD11	1:K:69:PHE:CZ	2.10	0.87
1:L:9:LEU:HD11	1:L:69:PHE:CZ	2.09	0.87
1:C:59:LEU:HD12	1:C:87:MET:HG2	1.55	0.87
1:G:59:LEU:HD13	1:G:91:ALA:HB3	1.57	0.87
1:L:59:LEU:HD12	1:L:87:MET:HG2	1.55	0.87
1:E:301:LEU:HA	1:E:304:ILE:HG13	1.57	0.87
1:E:59:LEU:HD12	1:E:87:MET:HG2	1.55	0.87
1:H:390:VAL:CG1	1:H:442:ILE:HD11	2.04	0.87
1:J:9:LEU:HD11	1:J:69:PHE:CZ	2.09	0.87
1:L:110:ILE:CD1	1:L:168:ALA:HA	2.05	0.87
1:M:20:THR:HG22	1:M:21:ARG:H	1.36	0.87
1:C:97:LEU:HA	1:C:527:SER:HB2	1.56	0.86
1:D:461:ALA:HB2	1:D:480:PHE:CD1	2.09	0.86
1:K:461:ALA:HB2	1:K:480:PHE:CD1	2.10	0.86
1:L:8:ARG:HH21	1:L:69:PHE:HD2	1.23	0.86
1:M:119:VAL:HG11	1:M:428:VAL:HG11	1.56	0.86
1:A:611:LEU:CD2	1:A:617:LEU:HD13	2.04	0.86
1:F:110:ILE:CD1	1:F:168:ALA:HA	2.04	0.86
1:G:390:VAL:CG1	1:G:442:ILE:HD11	2.04	0.86
1:L:30:ASP:CB	1:L:33:LEU:HD13	2.05	0.86
1:L:390:VAL:CG1	1:L:442:ILE:HD11	2.04	0.86
1:L:461:ALA:HB2	1:L:480:PHE:CD1	2.10	0.86
1:A:111:GLN:HG2	1:A:164:ILE:HD11	1.57	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:33:LEU:HD11	1:A:75:LEU:HD13	1.55	0.86
1:A:36:VAL:CB	1:A:59:LEU:CD2	2.53	0.86
1:A:337:ARG:CA	1:C:151:LEU:HG	2.03	0.86
1:D:110:ILE:CD1	1:D:168:ALA:HA	2.05	0.86
1:D:9:LEU:HD11	1:D:69:PHE:CZ	2.10	0.86
1:K:611:LEU:CD2	1:K:617:LEU:HD13	2.04	0.86
1:C:121:ALA:HB2	1:C:238:THR:HG23	1.57	0.86
1:G:119:VAL:HG11	1:G:428:VAL:HG11	1.56	0.86
1:I:390:VAL:CG1	1:I:442:ILE:HD11	2.04	0.86
1:M:9:LEU:HD11	1:M:69:PHE:CZ	2.09	0.86
1:C:8:ARG:HH21	1:C:69:PHE:HD2	1.23	0.86
1:E:97:LEU:HA	1:E:527:SER:HB2	1.56	0.86
1:H:461:ALA:HB2	1:H:480:PHE:CD1	2.10	0.86
1:H:8:ARG:HH21	1:H:69:PHE:HD2	1.23	0.86
1:J:111:GLN:HG2	1:J:164:ILE:HD11	1.57	0.86
1:M:33:LEU:HD11	1:M:75:LEU:HD13	1.56	0.86
1:M:59:LEU:HD13	1:M:91:ALA:HB3	1.57	0.86
1:D:30:ASP:CB	1:D:33:LEU:HD13	2.04	0.86
1:E:110:ILE:CD1	1:E:168:ALA:HA	2.04	0.86
1:I:110:ILE:CD1	1:I:168:ALA:HA	2.04	0.86
1:J:33:LEU:HD11	1:J:75:LEU:HD13	1.56	0.86
1:L:111:GLN:HG2	1:L:164:ILE:CG1	2.06	0.86
1:C:9:LEU:HD11	1:C:69:PHE:CZ	2.09	0.86
1:E:399:THR:HB	1:E:402:VAL:HG21	1.56	0.86
1:E:69:PHE:HE1	1:E:102:CYS:HG	1.21	0.86
1:G:111:GLN:HG2	1:G:164:ILE:HD11	1.57	0.86
1:G:611:LEU:CD2	1:G:617:LEU:HD13	2.04	0.86
1:M:110:ILE:CD1	1:M:168:ALA:HA	2.04	0.86
1:D:111:GLN:HG2	1:D:164:ILE:CG1	2.06	0.86
1:E:8:ARG:HH21	1:E:69:PHE:HD2	1.23	0.86
1:G:111:GLN:HG2	1:G:164:ILE:CG1	2.06	0.86
1:K:399:THR:HB	1:K:402:VAL:HG21	1.56	0.86
1:K:591:LYS:HA	1:K:591:LYS:HE3	1.55	0.86
1:M:111:GLN:HG2	1:M:164:ILE:CG1	2.06	0.86
1:M:30:ASP:CB	1:M:33:LEU:HD13	2.05	0.86
1:H:121:ALA:HB2	1:H:238:THR:HG23	1.57	0.86
1:J:461:ALA:HB2	1:J:480:PHE:CD1	2.10	0.86
1:K:111:GLN:HG2	1:K:164:ILE:CG1	2.06	0.86
1:A:30:ASP:CB	1:A:33:LEU:HD13	2.05	0.85
1:E:111:GLN:HG2	1:E:164:ILE:CG1	2.06	0.85
1:E:33:LEU:HD11	1:E:75:LEU:HD13	1.56	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:30:ASP:CB	1:E:33:LEU:HD13	2.05	0.85
1:E:119:VAL:HG11	1:E:428:VAL:HG11	1.56	0.85
1:E:461:ALA:HB2	1:E:480:PHE:CD1	2.09	0.85
1:H:111:GLN:HG2	1:H:164:ILE:HD11	1.57	0.85
1:H:111:GLN:HG2	1:H:164:ILE:CG1	2.06	0.85
1:H:108:PRO:HB3	1:H:514:PHE:CE1	2.11	0.85
1:D:97:LEU:HA	1:D:527:SER:HB2	1.56	0.85
1:F:115:PRO:HB2	1:F:414:LEU:HD22	1.59	0.85
1:F:19:LEU:HD22	1:F:80:ARG:HD2	1.58	0.85
1:H:611:LEU:CD2	1:H:617:LEU:HD13	2.04	0.85
1:M:8:ARG:HH21	1:M:69:PHE:HD2	1.23	0.85
1:C:399:THR:HB	1:C:402:VAL:HG21	1.55	0.85
1:A:605:ARG:HH22	1:E:38:ILE:CG2	1.89	0.85
1:E:115:PRO:HB2	1:E:414:LEU:HD22	1.59	0.85
1:F:33:LEU:HD11	1:F:75:LEU:HD13	1.56	0.85
1:K:97:LEU:CD1	1:K:176:VAL:HG12	2.06	0.85
1:C:111:GLN:HG2	1:C:164:ILE:CG1	2.06	0.85
1:F:111:GLN:HG2	1:F:164:ILE:CG1	2.06	0.85
1:I:115:PRO:HB2	1:I:414:LEU:HD22	1.59	0.85
1:J:111:GLN:HG2	1:J:164:ILE:CG1	2.06	0.85
1:D:111:GLN:HG2	1:D:164:ILE:HD11	1.57	0.85
1:F:407:ILE:CD1	1:F:431:HIS:HB3	2.07	0.85
1:I:121:ALA:HB2	1:I:238:THR:HG23	1.57	0.85
1:I:611:LEU:CD2	1:I:617:LEU:HD13	2.04	0.85
1:L:97:LEU:HA	1:L:527:SER:HB2	1.56	0.85
1:D:19:LEU:HD22	1:D:80:ARG:HD2	1.58	0.85
1:E:407:ILE:CD1	1:E:431:HIS:HB3	2.07	0.85
1:F:111:GLN:HG2	1:F:164:ILE:HD11	1.57	0.85
1:F:399:THR:HB	1:F:402:VAL:HG21	1.55	0.85
1:H:407:ILE:CD1	1:H:431:HIS:HB3	2.07	0.85
1:A:111:GLN:HG2	1:A:164:ILE:CG1	2.06	0.85
1:A:19:LEU:HD22	1:A:80:ARG:HD2	1.58	0.85
1:J:119:VAL:HG11	1:J:428:VAL:HG11	1.56	0.85
1:L:111:GLN:HG2	1:L:164:ILE:HD11	1.57	0.85
1:M:111:GLN:HG2	1:M:164:ILE:HD11	1.57	0.85
1:D:407:ILE:CD1	1:D:431:HIS:HB3	2.07	0.85
1:I:240:LEU:CD1	1:I:418:ILE:HG22	2.07	0.85
1:K:115:PRO:HB2	1:K:414:LEU:HD22	1.59	0.85
1:E:111:GLN:HG2	1:E:164:ILE:HD11	1.57	0.85
1:H:115:PRO:HB2	1:H:414:LEU:HD22	1.59	0.84
1:K:108:PRO:HB3	1:K:514:PHE:CE1	2.12	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:19:LEU:HD22	1:E:80:ARG:HD2	1.58	0.84
1:I:111:GLN:HG2	1:I:164:ILE:CG1	2.06	0.84
1:I:111:GLN:HG2	1:I:164:ILE:HD11	1.57	0.84
1:C:587:ARG:HH22	1:I:568:LEU:HB2	1.42	0.84
1:L:407:ILE:CD1	1:L:431:HIS:HB3	2.07	0.84
1:E:121:ALA:HB2	1:E:238:THR:HG23	1.57	0.84
1:L:115:PRO:HB2	1:L:414:LEU:HD22	1.59	0.84
1:M:115:PRO:HB2	1:M:414:LEU:HD22	1.59	0.84
1:D:511:VAL:HA	1:D:531:CYS:CB	2.01	0.84
1:G:121:ALA:HB2	1:G:238:THR:HG23	1.57	0.84
1:H:97:LEU:CD1	1:H:176:VAL:HG12	2.07	0.84
1:I:462:PRO:CG	1:I:479:LEU:HD23	2.06	0.84
1:D:49:HIS:ND1	1:D:51:ARG:HG2	1.93	0.84
1:G:115:PRO:HB2	1:G:414:LEU:HD22	1.59	0.84
1:G:111:GLN:HG2	1:G:164:ILE:CD1	2.08	0.84
1:E:605:ARG:NH2	1:G:38:ILE:CG2	2.39	0.84
1:H:49:HIS:ND1	1:H:51:ARG:HG2	1.93	0.84
1:E:462:PRO:CG	1:E:479:LEU:HD23	2.06	0.84
1:F:111:GLN:HG2	1:F:164:ILE:CD1	2.08	0.84
1:M:108:PRO:HB3	1:M:514:PHE:CE1	2.12	0.84
1:A:240:LEU:CD1	1:A:418:ILE:HG22	2.07	0.84
1:C:276:ALA:HB1	1:C:282:ILE:HG22	1.60	0.84
1:F:49:HIS:ND1	1:F:51:ARG:HG2	1.93	0.84
1:J:172:HIS:CE1	1:J:532:SER:HB3	2.13	0.84
1:M:49:HIS:ND1	1:M:51:ARG:HG2	1.93	0.84
1:E:194:GLY:CA	1:E:302:GLY:HA3	2.07	0.84
1:G:49:HIS:ND1	1:G:51:ARG:HG2	1.93	0.84
1:K:49:HIS:ND1	1:K:51:ARG:HG2	1.93	0.84
1:L:97:LEU:CD1	1:L:176:VAL:HG12	2.06	0.84
1:C:111:GLN:HG2	1:C:164:ILE:CD1	2.08	0.84
1:E:49:HIS:ND1	1:E:51:ARG:HG2	1.93	0.84
1:I:407:ILE:CD1	1:I:431:HIS:HB3	2.07	0.84
1:K:19:LEU:HD22	1:K:80:ARG:HD2	1.58	0.84
1:L:111:GLN:HG2	1:L:164:ILE:CD1	2.08	0.84
1:J:49:HIS:ND1	1:J:51:ARG:HG2	1.93	0.83
1:K:111:GLN:HG2	1:K:164:ILE:CD1	2.08	0.83
1:L:511:VAL:HA	1:L:531:CYS:CB	2.01	0.83
1:D:111:GLN:HG2	1:D:164:ILE:CD1	2.08	0.83
1:D:97:LEU:CD1	1:D:176:VAL:HG12	2.06	0.83
1:L:462:PRO:CG	1:L:479:LEU:HD23	2.06	0.83
1:A:97:LEU:CD1	1:A:176:VAL:HG12	2.08	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:115:PRO:HB2	1:D:414:LEU:HD22	1.59	0.83
1:E:97:LEU:CD1	1:E:176:VAL:HG12	2.06	0.83
1:I:49:HIS:ND1	1:I:51:ARG:HG2	1.93	0.83
1:C:19:LEU:HD22	1:C:80:ARG:HD2	1.58	0.83
1:D:47:CYS:O	1:D:53:LEU:HD21	1.79	0.83
1:C:115:PRO:HB2	1:C:414:LEU:HD22	1.59	0.83
1:C:407:ILE:CD1	1:C:431:HIS:HB3	2.07	0.83
1:I:111:GLN:HG2	1:I:164:ILE:CD1	2.08	0.83
1:J:115:PRO:HB2	1:J:414:LEU:HD22	1.59	0.83
1:A:49:HIS:ND1	1:A:51:ARG:HG2	1.93	0.83
1:A:6:GLN:HE22	1:A:106:THR:H	1.23	0.83
1:C:6:GLN:HE22	1:C:106:THR:H	1.26	0.83
1:D:8:ARG:HH21	1:D:69:PHE:HD2	1.23	0.83
1:A:462:PRO:CG	1:A:479:LEU:HD23	2.06	0.83
1:A:511:VAL:HA	1:A:531:CYS:CB	2.01	0.83
1:G:407:ILE:CD1	1:G:431:HIS:HB3	2.07	0.83
1:G:8:ARG:HH21	1:G:69:PHE:HD2	1.23	0.83
1:H:47:CYS:O	1:H:53:LEU:HD21	1.79	0.83
1:K:44:LEU:HD11	1:K:341:ASN:ND2	1.94	0.83
1:L:19:LEU:HD22	1:L:80:ARG:HD2	1.58	0.83
1:M:462:PRO:HG2	1:M:479:LEU:HD23	1.57	0.83
1:M:511:VAL:HA	1:M:531:CYS:CB	2.03	0.83
1:A:115:PRO:HB2	1:A:414:LEU:HD22	1.59	0.83
1:I:47:CYS:O	1:I:53:LEU:HD21	1.79	0.83
1:J:111:GLN:HG2	1:J:164:ILE:CD1	2.08	0.83
1:K:33:LEU:HD11	1:K:75:LEU:CD1	2.09	0.83
1:K:407:ILE:CD1	1:K:431:HIS:HB3	2.07	0.83
1:M:111:GLN:HG2	1:M:164:ILE:CD1	2.08	0.83
1:A:121:ALA:HB2	1:A:238:THR:HG23	1.57	0.83
1:I:523:VAL:HG12	1:I:524:SER:H	1.42	0.83
1:M:44:LEU:HD11	1:M:341:ASN:ND2	1.94	0.83
1:A:111:GLN:HG2	1:A:164:ILE:CD1	2.08	0.83
1:C:47:CYS:O	1:C:53:LEU:HD21	1.78	0.83
1:D:6:GLN:HE22	1:D:106:THR:H	1.27	0.83
1:D:33:LEU:HD11	1:D:75:LEU:CD1	2.09	0.83
1:E:6:GLN:HE22	1:E:106:THR:H	1.26	0.83
1:F:47:CYS:O	1:F:53:LEU:HD21	1.79	0.83
1:J:407:ILE:CD1	1:J:431:HIS:HB3	2.07	0.83
1:K:30:ASP:HB3	1:K:33:LEU:CD1	2.09	0.83
1:K:462:PRO:CG	1:K:479:LEU:HD23	2.06	0.83
1:A:30:ASP:HB3	1:A:33:LEU:CD1	2.09	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:49:HIS:ND1	1:C:51:ARG:HG2	1.93	0.82
1:F:44:LEU:HD11	1:F:341:ASN:ND2	1.94	0.82
1:H:111:GLN:HG2	1:H:164:ILE:CD1	2.08	0.82
1:H:511:VAL:HA	1:H:531:CYS:CB	2.01	0.82
1:L:33:LEU:HD11	1:L:75:LEU:CD1	2.09	0.82
1:D:44:LEU:HD11	1:D:341:ASN:ND2	1.94	0.82
1:I:240:LEU:HD13	1:I:418:ILE:HG22	1.61	0.82
1:M:414:LEU:HB3	1:M:418:ILE:HD12	1.62	0.82
1:E:111:GLN:HG2	1:E:164:ILE:CD1	2.08	0.82
1:G:44:LEU:HD11	1:G:341:ASN:ND2	1.94	0.82
1:G:33:LEU:HD11	1:G:75:LEU:CD1	2.09	0.82
1:K:6:GLN:HE22	1:K:106:THR:H	1.27	0.82
1:L:49:HIS:ND1	1:L:51:ARG:HG2	1.93	0.82
1:A:407:ILE:CD1	1:A:431:HIS:HB3	2.07	0.82
1:C:414:LEU:HB3	1:C:418:ILE:HD12	1.62	0.82
1:G:172:HIS:CE1	1:G:532:SER:HB3	2.14	0.82
1:K:47:CYS:O	1:K:53:LEU:HD21	1.79	0.82
1:L:44:LEU:HD11	1:L:341:ASN:ND2	1.94	0.82
1:A:57:THR:HA	1:A:60:TYR:CE2	2.15	0.82
1:E:44:LEU:HD11	1:E:341:ASN:ND2	1.94	0.82
1:I:44:LEU:HD11	1:I:341:ASN:ND2	1.94	0.82
1:K:414:LEU:HB3	1:K:418:ILE:HD12	1.62	0.82
1:L:414:LEU:HB3	1:L:418:ILE:HD12	1.62	0.82
1:L:6:GLN:HE22	1:L:106:THR:H	1.26	0.82
1:M:33:LEU:HD11	1:M:75:LEU:CD1	2.09	0.82
1:A:44:LEU:HD11	1:A:341:ASN:ND2	1.94	0.82
1:C:511:VAL:HA	1:C:531:CYS:CB	2.01	0.82
1:D:462:PRO:CG	1:D:479:LEU:HD23	2.06	0.82
1:G:414:LEU:HB3	1:G:418:ILE:HD12	1.62	0.82
1:C:44:LEU:HD11	1:C:341:ASN:ND2	1.94	0.82
1:F:6:GLN:HE22	1:F:106:THR:H	1.26	0.82
1:K:57:THR:HA	1:K:60:TYR:CE2	2.15	0.82
1:L:69:PHE:HE1	1:L:102:CYS:HG	1.23	0.82
1:A:53:LEU:HB3	1:A:180:THR:CG2	2.10	0.82
1:C:462:PRO:CG	1:C:479:LEU:HD23	2.06	0.82
1:E:304:ILE:HA	1:E:311:SER:HA	1.61	0.82
1:F:8:ARG:HH21	1:F:69:PHE:HD2	1.23	0.82
1:A:33:LEU:HD11	1:A:75:LEU:CD1	2.09	0.82
1:A:60:TYR:CD1	1:A:91:ALA:CA	2.63	0.82
1:D:414:LEU:HB3	1:D:418:ILE:HD12	1.62	0.82
1:F:414:LEU:HB3	1:F:418:ILE:HD12	1.62	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:9:LEU:HD22	1:H:105:ILE:CD1	2.09	0.82
1:H:6:GLN:HE22	1:H:106:THR:H	1.27	0.82
1:I:58:GLU:O	1:I:61:VAL:HG22	1.80	0.82
1:H:7:ALA:HA	1:H:10:MET:HE2	1.62	0.82
1:L:9:LEU:HD22	1:L:105:ILE:CD1	2.10	0.82
1:L:47:CYS:O	1:L:53:LEU:HD21	1.79	0.82
1:M:407:ILE:CD1	1:M:431:HIS:HB3	2.07	0.82
1:A:414:LEU:HB3	1:A:418:ILE:HD12	1.62	0.81
1:A:6:GLN:HA	1:A:105:ILE:HD11	1.62	0.81
1:E:7:ALA:O	1:E:11:PRO:HD2	1.80	0.81
1:F:33:LEU:HD11	1:F:75:LEU:CD1	2.09	0.81
1:H:12:LEU:HD13	1:H:76:CYS:SG	2.18	0.81
1:K:54:ALA:O	1:K:57:THR:HG22	1.80	0.81
1:K:58:GLU:O	1:K:61:VAL:HG22	1.80	0.81
1:L:57:THR:HA	1:L:60:TYR:CE2	2.15	0.81
1:M:113:VAL:HG23	1:M:114:PHE:CD2	2.15	0.81
1:A:54:ALA:O	1:A:57:THR:HG22	1.80	0.81
1:D:113:VAL:HG23	1:D:114:PHE:CD2	2.15	0.81
1:D:7:ALA:O	1:D:11:PRO:HD2	1.81	0.81
1:D:58:GLU:O	1:D:61:VAL:HG22	1.80	0.81
1:E:113:VAL:HG23	1:E:114:PHE:CD2	2.16	0.81
1:E:33:LEU:HD11	1:E:75:LEU:CD1	2.09	0.81
1:F:57:THR:HA	1:F:60:TYR:CE2	2.15	0.81
1:J:414:LEU:HB3	1:J:418:ILE:HD12	1.61	0.81
1:J:33:LEU:HD11	1:J:75:LEU:CD1	2.09	0.81
1:J:8:ARG:HH21	1:J:69:PHE:HD2	1.23	0.81
1:C:58:GLU:O	1:C:61:VAL:HG22	1.80	0.81
1:E:47:CYS:O	1:E:53:LEU:HD21	1.79	0.81
1:I:527:SER:H	1:I:584:ARG:HH22	1.26	0.81
1:J:44:LEU:HD11	1:J:341:ASN:ND2	1.94	0.81
1:M:7:ALA:O	1:M:11:PRO:HD2	1.80	0.81
1:K:9:LEU:HD22	1:K:105:ILE:CD1	2.10	0.81
1:L:7:ALA:O	1:L:11:PRO:HD2	1.81	0.81
1:L:54:ALA:O	1:L:57:THR:HG22	1.80	0.81
1:M:172:HIS:CE1	1:M:532:SER:HB3	2.15	0.81
1:A:7:ALA:HA	1:A:10:MET:HE2	1.62	0.81
1:C:54:ALA:O	1:C:57:THR:HG22	1.81	0.81
1:E:30:ASP:HB3	1:E:33:LEU:CD1	2.09	0.81
1:G:620:ILE:H	1:G:620:ILE:HD13	1.46	0.81
1:H:113:VAL:HG23	1:H:114:PHE:CD2	2.16	0.81
1:I:97:LEU:CD1	1:I:176:VAL:HG12	2.08	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:7:ALA:O	1:J:11:PRO:HD2	1.81	0.81
1:D:9:LEU:HD22	1:D:105:ILE:CD1	2.10	0.81
1:G:511:VAL:HA	1:G:531:CYS:CB	2.01	0.81
1:H:7:ALA:O	1:H:11:PRO:HD2	1.80	0.81
1:I:57:THR:HA	1:I:60:TYR:CE2	2.15	0.81
1:J:30:ASP:HB3	1:J:33:LEU:CD1	2.09	0.81
1:K:8:ARG:HH21	1:K:69:PHE:HD2	1.23	0.81
1:L:30:ASP:HB3	1:L:33:LEU:CD1	2.09	0.81
1:E:57:THR:HA	1:E:60:TYR:CE2	2.15	0.81
1:F:620:ILE:H	1:F:620:ILE:HD13	1.46	0.81
1:G:118:PHE:HD2	1:G:164:ILE:HG13	1.46	0.81
1:G:462:PRO:CG	1:G:479:LEU:HD23	2.06	0.81
1:H:58:GLU:O	1:H:61:VAL:HG22	1.80	0.81
1:K:513:THR:HG22	1:K:516:GLN:CG	2.11	0.81
1:D:69:PHE:HE1	1:D:102:CYS:HG	1.27	0.81
1:E:54:ALA:O	1:E:57:THR:HG22	1.80	0.81
1:F:113:VAL:HG23	1:F:114:PHE:CD2	2.15	0.81
1:I:113:VAL:HG23	1:I:114:PHE:CD2	2.16	0.81
1:I:54:ALA:O	1:I:57:THR:HG22	1.80	0.81
1:J:303:ASP:OD1	1:J:311:SER:HA	1.81	0.81
1:L:118:PHE:HD2	1:L:164:ILE:HG13	1.46	0.81
1:C:303:ASP:OD1	1:C:311:SER:HA	1.81	0.81
1:C:57:THR:HA	1:C:60:TYR:CE2	2.15	0.81
1:D:118:PHE:HD2	1:D:164:ILE:HG13	1.46	0.81
1:D:54:ALA:O	1:D:57:THR:HG22	1.80	0.81
1:E:511:VAL:HA	1:E:531:CYS:CB	2.01	0.81
1:G:113:VAL:HG23	1:G:114:PHE:CD2	2.16	0.81
1:G:7:ALA:O	1:G:11:PRO:HD2	1.80	0.81
1:H:620:ILE:H	1:H:620:ILE:HD13	1.46	0.81
1:L:58:GLU:O	1:L:61:VAL:HG22	1.80	0.81
1:C:606:THR:CG2	1:C:609:GLU:HG3	2.11	0.81
1:E:606:THR:CG2	1:E:609:GLU:HG3	2.11	0.81
1:G:303:ASP:OD1	1:G:311:SER:HA	1.81	0.81
1:H:294:ILE:HA	1:H:375:PHE:HE2	1.46	0.81
1:H:57:THR:HA	1:H:60:TYR:CE2	2.15	0.81
1:I:620:ILE:H	1:I:620:ILE:HD13	1.46	0.81
1:A:620:ILE:H	1:A:620:ILE:HD13	1.46	0.81
1:C:9:LEU:HD22	1:C:105:ILE:CD1	2.09	0.81
1:C:620:ILE:H	1:C:620:ILE:HD13	1.46	0.81
1:D:57:THR:HA	1:D:60:TYR:CE2	2.15	0.81
1:F:30:ASP:HB3	1:F:33:LEU:CD1	2.09	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:303:ASP:OD1	1:F:311:SER:HA	1.81	0.81
1:I:294:ILE:HA	1:I:375:PHE:HE2	1.46	0.81
1:I:606:THR:CG2	1:I:609:GLU:HG3	2.11	0.81
1:L:113:VAL:HG23	1:L:114:PHE:CD2	2.16	0.81
1:M:294:ILE:HA	1:M:375:PHE:HE2	1.46	0.81
1:C:113:VAL:HG23	1:C:114:PHE:CD2	2.15	0.80
1:D:303:ASP:OD1	1:D:311:SER:HA	1.81	0.80
1:E:58:GLU:O	1:E:61:VAL:HG22	1.80	0.80
1:F:9:LEU:HD22	1:F:105:ILE:CD1	2.10	0.80
1:H:118:PHE:HD2	1:H:164:ILE:HG13	1.46	0.80
1:A:113:VAL:HG23	1:A:114:PHE:CD2	2.16	0.80
1:H:54:ALA:O	1:H:57:THR:HG22	1.80	0.80
1:I:303:ASP:OD1	1:I:311:SER:HA	1.81	0.80
1:J:113:VAL:HG23	1:J:114:PHE:CD2	2.15	0.80
1:J:606:THR:CG2	1:J:609:GLU:HG3	2.11	0.80
1:K:113:VAL:HG23	1:K:114:PHE:CD2	2.16	0.80
1:L:303:ASP:OD1	1:L:311:SER:HA	1.81	0.80
1:A:7:ALA:O	1:A:11:PRO:HD2	1.81	0.80
1:K:7:ALA:O	1:K:11:PRO:HD2	1.81	0.80
1:L:294:ILE:HA	1:L:375:PHE:HE2	1.46	0.80
1:M:118:PHE:HD2	1:M:164:ILE:HG13	1.46	0.80
1:H:513:THR:HG22	1:H:516:GLN:CG	2.11	0.80
1:H:513:THR:HG22	1:H:516:GLN:HG2	1.64	0.80
1:E:620:ILE:HD13	1:E:620:ILE:H	1.46	0.80
1:G:104:GLY:HA2	1:G:525:GLU:HB3	1.62	0.80
1:H:462:PRO:CG	1:H:479:LEU:HD23	2.06	0.80
1:I:118:PHE:HD2	1:I:164:ILE:HG13	1.46	0.80
1:L:606:THR:CG2	1:L:609:GLU:HG3	2.11	0.80
1:A:240:LEU:HD13	1:A:418:ILE:HG22	1.61	0.80
1:E:9:LEU:HD22	1:E:105:ILE:CD1	2.10	0.80
1:H:303:ASP:OD1	1:H:311:SER:HA	1.81	0.80
1:J:294:ILE:HA	1:J:375:PHE:HE2	1.46	0.80
1:J:511:VAL:HA	1:J:531:CYS:CB	2.01	0.80
1:M:620:ILE:H	1:M:620:ILE:HD13	1.46	0.80
1:G:606:THR:CG2	1:G:609:GLU:HG3	2.11	0.80
1:I:513:THR:HG22	1:I:516:GLN:CG	2.11	0.80
1:K:513:THR:HG22	1:K:516:GLN:HG2	1.64	0.80
1:M:303:ASP:OD1	1:M:311:SER:HA	1.81	0.80
1:M:104:GLY:HA2	1:M:525:GLU:HB3	1.64	0.80
1:A:60:TYR:CE1	1:A:91:ALA:CA	2.53	0.80
1:C:7:ALA:O	1:C:11:PRO:HD2	1.80	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:606:THR:CG2	1:D:609:GLU:HG3	2.11	0.80
1:E:39:LEU:HD23	1:E:84:ASN:ND2	1.97	0.80
1:E:414:LEU:HB3	1:E:418:ILE:HD12	1.62	0.80
1:F:97:LEU:CD1	1:F:176:VAL:HG12	2.07	0.80
1:F:39:LEU:HD23	1:F:84:ASN:ND2	1.97	0.80
1:M:41:ARG:CA	1:M:84:ASN:HB2	2.11	0.80
1:A:62:ALA:HB1	1:A:75:LEU:CD2	2.12	0.80
1:D:30:ASP:HB3	1:D:33:LEU:CD1	2.09	0.80
1:F:58:GLU:O	1:F:61:VAL:HG22	1.80	0.80
1:H:414:LEU:HB3	1:H:418:ILE:HD12	1.62	0.80
1:K:508:ILE:HG12	1:K:531:CYS:O	1.82	0.80
1:M:606:THR:CG2	1:M:609:GLU:HG3	2.11	0.80
1:A:9:LEU:HD22	1:A:105:ILE:CD1	2.12	0.79
1:A:294:ILE:HA	1:A:375:PHE:HE2	1.46	0.79
1:F:7:ALA:O	1:F:11:PRO:HD2	1.80	0.79
1:K:620:ILE:H	1:K:620:ILE:HD13	1.46	0.79
1:G:405:THR:C	1:G:406:LEU:HD12	2.03	0.79
1:A:405:THR:C	1:A:406:LEU:HD12	2.03	0.79
1:A:606:THR:CG2	1:A:609:GLU:HG3	2.11	0.79
1:C:7:ALA:HA	1:C:10:MET:HE3	1.64	0.79
1:D:294:ILE:HA	1:D:375:PHE:HE2	1.46	0.79
1:D:39:LEU:HD23	1:D:84:ASN:ND2	1.97	0.79
1:D:59:LEU:CD1	1:D:87:MET:HG2	2.13	0.79
1:F:294:ILE:HA	1:F:375:PHE:HE2	1.46	0.79
1:F:54:ALA:O	1:F:57:THR:HG22	1.80	0.79
1:G:59:LEU:HD13	1:G:91:ALA:CB	2.11	0.79
1:H:321:HIS:HD2	1:H:364:ILE:HD13	1.48	0.79
1:J:290:ILE:HD13	1:J:312:LYS:CD	2.13	0.79
1:J:405:THR:C	1:J:406:LEU:HD12	2.03	0.79
1:M:59:LEU:HD13	1:M:91:ALA:CB	2.11	0.79
1:A:110:ILE:HD11	1:A:168:ALA:CA	2.12	0.79
1:A:36:VAL:HG11	1:A:59:LEU:HD23	1.64	0.79
1:D:6:GLN:HA	1:D:105:ILE:HD11	1.65	0.79
1:H:292:LEU:HB3	1:H:371:HIS:HE1	1.48	0.79
1:I:392:GLY:O	1:I:442:ILE:HD12	1.83	0.79
1:K:511:VAL:HA	1:K:531:CYS:CB	2.01	0.79
1:L:39:LEU:HD23	1:L:84:ASN:ND2	1.97	0.79
1:A:58:GLU:O	1:A:61:VAL:HG22	1.80	0.79
1:H:392:GLY:O	1:H:442:ILE:HD12	1.83	0.79
1:H:59:LEU:CD1	1:H:87:MET:HG2	2.13	0.79
1:A:39:LEU:HD23	1:A:84:ASN:ND2	1.97	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:118:PHE:HD2	1:E:164:ILE:HG13	1.46	0.79
1:F:88:PHE:CZ	1:F:92:VAL:HG11	2.18	0.79
1:I:59:LEU:CD1	1:I:87:MET:HG2	2.13	0.79
1:M:513:THR:HG22	1:M:516:GLN:CG	2.11	0.79
1:A:60:TYR:HE1	1:A:91:ALA:HA	1.43	0.79
1:C:392:GLY:O	1:C:442:ILE:HD12	1.83	0.79
1:C:88:PHE:CZ	1:C:92:VAL:HG11	2.18	0.79
1:D:294:ILE:HA	1:D:375:PHE:CE2	2.18	0.79
1:F:606:THR:CG2	1:F:609:GLU:HG3	2.12	0.79
1:G:294:ILE:HA	1:G:375:PHE:CE2	2.18	0.79
1:G:294:ILE:HA	1:G:375:PHE:HE2	1.46	0.79
1:H:294:ILE:HA	1:H:375:PHE:CE2	2.18	0.79
1:I:294:ILE:HA	1:I:375:PHE:CE2	2.18	0.79
1:J:292:LEU:HB3	1:J:371:HIS:HE1	1.48	0.79
1:J:392:GLY:O	1:J:442:ILE:HD12	1.83	0.79
1:A:303:ASP:OD1	1:A:311:SER:HA	1.81	0.79
1:A:88:PHE:CZ	1:A:92:VAL:HG11	2.18	0.79
1:E:290:ILE:HD13	1:E:312:LYS:CD	2.13	0.79
1:I:513:THR:HG22	1:I:516:GLN:HG2	1.64	0.79
1:L:294:ILE:HA	1:L:375:PHE:CE2	2.18	0.79
1:L:620:ILE:HD13	1:L:620:ILE:H	1.46	0.79
1:M:392:GLY:O	1:M:442:ILE:HD12	1.83	0.79
1:D:305:ILE:HG21	1:D:368:PHE:HZ	1.48	0.79
1:F:392:GLY:O	1:F:442:ILE:HD12	1.83	0.79
1:G:111:GLN:HG3	1:G:118:PHE:CE2	2.18	0.79
1:G:290:ILE:HD13	1:G:312:LYS:CD	2.13	0.79
1:I:264:GLN:HE21	1:J:224:HIS:HE1	1.30	0.79
1:J:59:LEU:HD13	1:J:91:ALA:CB	2.11	0.79
1:J:620:ILE:H	1:J:620:ILE:HD13	1.46	0.79
1:L:111:GLN:HG3	1:L:118:PHE:CE2	2.18	0.79
1:L:292:LEU:HB3	1:L:371:HIS:HE1	1.48	0.79
1:L:6:GLN:HA	1:L:105:ILE:HD11	1.65	0.79
1:M:114:PHE:O	1:M:117:ARG:HG2	1.83	0.79
1:A:321:HIS:HD2	1:A:364:ILE:HD13	1.48	0.79
1:C:6:GLN:HA	1:C:105:ILE:HD11	1.64	0.79
1:C:290:ILE:HD13	1:C:312:LYS:CD	2.13	0.79
1:C:405:THR:C	1:C:406:LEU:HD12	2.03	0.79
1:D:111:GLN:HG3	1:D:118:PHE:CE2	2.18	0.79
1:D:290:ILE:HD13	1:D:312:LYS:CD	2.13	0.79
1:D:392:GLY:O	1:D:442:ILE:HD12	1.83	0.79
1:E:392:GLY:O	1:E:442:ILE:HD12	1.82	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:88:PHE:CZ	1:E:92:VAL:HG11	2.18	0.79
1:F:305:ILE:HG21	1:F:368:PHE:HZ	1.48	0.79
1:H:88:PHE:CZ	1:H:92:VAL:HG11	2.18	0.79
1:I:114:PHE:O	1:I:117:ARG:HG2	1.83	0.79
1:I:290:ILE:HD13	1:I:312:LYS:CD	2.13	0.79
1:M:290:ILE:HD13	1:M:312:LYS:CD	2.13	0.79
1:M:30:ASP:HB3	1:M:33:LEU:CD1	2.10	0.79
1:A:111:GLN:HG3	1:A:118:PHE:CE2	2.18	0.78
1:C:114:PHE:O	1:C:117:ARG:HG2	1.83	0.78
1:D:114:PHE:O	1:D:117:ARG:HG2	1.83	0.78
1:H:405:THR:C	1:H:406:LEU:HD12	2.03	0.78
1:I:414:LEU:HB3	1:I:418:ILE:HD12	1.62	0.78
1:J:294:ILE:HA	1:J:375:PHE:CE2	2.18	0.78
1:K:69:PHE:HE1	1:K:102:CYS:HG	1.29	0.78
1:L:59:LEU:CD1	1:L:87:MET:HG2	2.13	0.78
1:C:111:GLN:HG3	1:C:118:PHE:CE2	2.19	0.78
1:C:97:LEU:CD1	1:C:176:VAL:HG12	2.08	0.78
1:E:405:THR:C	1:E:406:LEU:HD12	2.03	0.78
1:F:321:HIS:HD2	1:F:364:ILE:HD13	1.48	0.78
1:H:290:ILE:HD13	1:H:312:LYS:CD	2.13	0.78
1:J:114:PHE:O	1:J:117:ARG:HG2	1.83	0.78
1:K:88:PHE:CZ	1:K:92:VAL:HG11	2.18	0.78
1:E:111:GLN:HG3	1:E:118:PHE:CE2	2.18	0.78
1:E:110:ILE:HD11	1:E:168:ALA:CA	2.12	0.78
1:G:110:ILE:HD11	1:G:168:ALA:CA	2.12	0.78
1:I:321:HIS:HD2	1:I:364:ILE:HD13	1.48	0.78
1:J:321:HIS:HD2	1:J:364:ILE:HD13	1.48	0.78
1:J:41:ARG:CA	1:J:84:ASN:HB2	2.11	0.78
1:K:405:THR:C	1:K:406:LEU:HD12	2.03	0.78
1:M:513:THR:HG22	1:M:516:GLN:HG2	1.64	0.78
1:A:114:PHE:O	1:A:117:ARG:HG2	1.83	0.78
1:D:405:THR:C	1:D:406:LEU:HD12	2.03	0.78
1:D:88:PHE:CZ	1:D:92:VAL:HG11	2.18	0.78
1:F:6:GLN:HA	1:F:105:ILE:HD11	1.64	0.78
1:F:294:ILE:HA	1:F:375:PHE:CE2	2.18	0.78
1:F:462:PRO:CG	1:F:479:LEU:HD23	2.06	0.78
1:G:114:PHE:O	1:G:117:ARG:HG2	1.83	0.78
1:H:305:ILE:HG21	1:H:368:PHE:HZ	1.48	0.78
1:L:392:GLY:O	1:L:442:ILE:HD12	1.83	0.78
1:A:294:ILE:HA	1:A:375:PHE:CE2	2.18	0.78
1:D:620:ILE:H	1:D:620:ILE:HD13	1.46	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:292:LEU:HB3	1:E:371:HIS:HE1	1.48	0.78
1:F:290:ILE:HD13	1:F:312:LYS:CD	2.13	0.78
1:G:321:HIS:HD2	1:G:364:ILE:HD13	1.48	0.78
1:H:111:GLN:HG3	1:H:118:PHE:CE2	2.18	0.78
1:L:290:ILE:HD13	1:L:312:LYS:CD	2.13	0.78
1:L:405:THR:C	1:L:406:LEU:HD12	2.03	0.78
1:M:294:ILE:HA	1:M:375:PHE:CE2	2.18	0.78
1:M:321:HIS:HD2	1:M:364:ILE:HD13	1.48	0.78
1:A:392:GLY:O	1:A:442:ILE:HD12	1.83	0.78
1:A:376:HIS:O	1:A:600:ARG:HD3	1.84	0.78
1:C:59:LEU:CD1	1:C:87:MET:HG2	2.13	0.78
1:E:376:HIS:O	1:E:600:ARG:HD3	1.84	0.78
1:E:605:ARG:HH22	1:G:38:ILE:HG22	1.48	0.78
1:F:405:THR:C	1:F:406:LEU:HD12	2.03	0.78
1:K:6:GLN:HA	1:K:105:ILE:HD11	1.65	0.78
1:K:59:LEU:CD1	1:K:87:MET:HG2	2.13	0.78
1:L:305:ILE:HG21	1:L:368:PHE:HZ	1.48	0.78
1:M:376:HIS:O	1:M:600:ARG:HD3	1.84	0.78
1:A:504:SER:OG	1:A:506:VAL:HG22	1.84	0.78
1:C:305:ILE:HG21	1:C:368:PHE:HZ	1.48	0.78
1:G:30:ASP:HB3	1:G:33:LEU:CD1	2.09	0.78
1:I:281:TYR:HD2	1:L:287:ASN:HD21	1.32	0.78
1:I:405:THR:C	1:I:406:LEU:HD12	2.03	0.78
1:J:111:GLN:HG3	1:J:118:PHE:CE2	2.18	0.78
1:K:392:GLY:O	1:K:442:ILE:HD12	1.83	0.78
1:K:513:THR:HG23	1:K:516:GLN:H	1.48	0.78
1:C:110:ILE:HD11	1:C:168:ALA:CA	2.12	0.78
1:D:504:SER:OG	1:D:506:VAL:HG22	1.84	0.78
1:F:59:LEU:CD1	1:F:87:MET:HG2	2.13	0.78
1:I:111:GLN:HG3	1:I:118:PHE:CE2	2.18	0.78
1:L:376:HIS:O	1:L:600:ARG:HD3	1.84	0.78
1:L:88:PHE:CZ	1:L:92:VAL:HG11	2.18	0.78
1:A:290:ILE:HD13	1:A:312:LYS:CD	2.13	0.78
1:C:376:HIS:O	1:C:600:ARG:HD3	1.84	0.78
1:C:504:SER:OG	1:C:506:VAL:HG22	1.84	0.78
1:E:508:ILE:HG12	1:E:531:CYS:O	1.84	0.78
1:F:111:GLN:HG3	1:F:118:PHE:CE2	2.18	0.78
1:G:392:GLY:O	1:G:442:ILE:HD12	1.83	0.78
1:J:504:SER:OG	1:J:506:VAL:HG22	1.84	0.78
1:K:110:ILE:HD11	1:K:168:ALA:CA	2.12	0.78
1:K:504:SER:OG	1:K:506:VAL:HG22	1.84	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:114:PHE:O	1:L:117:ARG:HG2	1.83	0.78
1:M:405:THR:C	1:M:406:LEU:HD12	2.03	0.78
1:C:577:ALA:O	1:C:581:CYS:HB2	1.84	0.78
1:F:114:PHE:O	1:F:117:ARG:HG2	1.83	0.78
1:I:376:HIS:O	1:I:600:ARG:HD3	1.84	0.78
1:K:114:PHE:O	1:K:117:ARG:HG2	1.83	0.78
1:L:321:HIS:HD2	1:L:364:ILE:HD13	1.48	0.78
1:M:108:PRO:HB3	1:M:514:PHE:CZ	2.19	0.78
1:C:116:ASP:HA	1:C:124:ILE:HD11	1.67	0.77
1:F:376:HIS:O	1:F:600:ARG:HD3	1.84	0.77
1:H:110:ILE:HD11	1:H:168:ALA:CA	2.12	0.77
1:M:513:THR:HG23	1:M:516:GLN:H	1.48	0.77
1:D:110:ILE:HD11	1:D:168:ALA:CA	2.12	0.77
1:E:6:GLN:HA	1:E:105:ILE:HD11	1.64	0.77
1:G:292:LEU:HB3	1:G:371:HIS:HE1	1.48	0.77
1:H:504:SER:OG	1:H:506:VAL:HG22	1.84	0.77
1:I:534:GLY:N	1:I:581:CYS:SG	2.57	0.77
1:J:110:ILE:HD11	1:J:168:ALA:CA	2.12	0.77
1:M:292:LEU:HB3	1:M:371:HIS:HE1	1.48	0.77
1:A:292:LEU:HB3	1:A:371:HIS:HE1	1.48	0.77
1:H:6:GLN:HA	1:H:105:ILE:HD11	1.65	0.77
1:I:305:ILE:HG21	1:I:368:PHE:HZ	1.48	0.77
1:J:172:HIS:CD2	1:J:532:SER:HB3	2.19	0.77
1:L:508:ILE:HG12	1:L:531:CYS:O	1.84	0.77
1:M:504:SER:OG	1:M:506:VAL:HG22	1.84	0.77
1:A:305:ILE:HG21	1:A:368:PHE:HZ	1.48	0.77
1:C:321:HIS:HD2	1:C:364:ILE:HD13	1.48	0.77
1:D:321:HIS:HD2	1:D:364:ILE:HD13	1.48	0.77
1:E:114:PHE:O	1:E:117:ARG:HG2	1.83	0.77
1:H:376:HIS:O	1:H:600:ARG:HD3	1.84	0.77
1:C:508:ILE:HG12	1:C:531:CYS:O	1.85	0.77
1:F:292:LEU:HB3	1:F:371:HIS:HE1	1.48	0.77
1:J:376:HIS:O	1:J:600:ARG:HD3	1.84	0.77
1:A:411:LEU:HD23	1:A:429:LYS:HA	1.67	0.77
1:D:292:LEU:HB3	1:D:371:HIS:HE1	1.48	0.77
1:F:504:SER:OG	1:F:506:VAL:HG22	1.84	0.77
1:G:172:HIS:CD2	1:G:532:SER:HB3	2.20	0.77
1:H:114:PHE:O	1:H:117:ARG:HG2	1.83	0.77
1:I:110:ILE:HD11	1:I:168:ALA:CA	2.12	0.77
1:I:88:PHE:CZ	1:I:92:VAL:HG11	2.18	0.77
1:J:305:ILE:HG21	1:J:368:PHE:HZ	1.48	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:376:HIS:O	1:K:600:ARG:HD3	1.84	0.77
1:M:111:GLN:HG3	1:M:118:PHE:CE2	2.18	0.77
1:C:411:LEU:HD23	1:C:429:LYS:HA	1.67	0.77
1:C:172:HIS:CE1	1:C:532:SER:HB3	2.20	0.77
1:E:59:LEU:CD1	1:E:87:MET:HG2	2.13	0.77
1:G:405:THR:HG23	1:G:624:PHE:HD1	1.50	0.77
1:K:108:PRO:HB3	1:K:514:PHE:CZ	2.19	0.77
1:M:411:LEU:HD23	1:M:429:LYS:HA	1.67	0.77
1:D:411:LEU:HD23	1:D:429:LYS:HA	1.67	0.77
1:D:405:THR:HG21	1:D:543:ARG:O	1.85	0.77
1:F:411:LEU:HD23	1:F:429:LYS:HA	1.67	0.77
1:L:411:LEU:HD23	1:L:429:LYS:HA	1.67	0.77
1:A:172:HIS:CE1	1:A:532:SER:HB3	2.20	0.77
1:C:264:GLN:HE21	1:D:224:HIS:HE1	1.30	0.77
1:F:405:THR:HG21	1:F:543:ARG:O	1.85	0.77
1:H:508:ILE:HG12	1:H:531:CYS:O	1.85	0.77
1:I:411:LEU:HD23	1:I:429:LYS:HA	1.67	0.77
1:J:462:PRO:CG	1:J:479:LEU:HD23	2.06	0.77
1:F:118:PHE:HD2	1:F:164:ILE:HG13	1.46	0.77
1:F:192:ARG:NH2	1:F:594:MET:HG3	2.00	0.77
1:G:305:ILE:HG21	1:G:368:PHE:HZ	1.48	0.77
1:K:405:THR:HG21	1:K:543:ARG:O	1.85	0.77
1:C:292:LEU:HB3	1:C:371:HIS:HE1	1.48	0.76
1:E:321:HIS:HD2	1:E:364:ILE:HD13	1.48	0.76
1:E:405:THR:HG21	1:E:543:ARG:O	1.85	0.76
1:F:508:ILE:HG12	1:F:531:CYS:O	1.84	0.76
1:G:504:SER:OG	1:G:506:VAL:HG22	1.84	0.76
1:G:376:HIS:O	1:G:600:ARG:HD3	1.84	0.76
1:H:411:LEU:HD23	1:H:429:LYS:HA	1.67	0.76
1:K:321:HIS:HD2	1:K:364:ILE:HD13	1.48	0.76
1:L:110:ILE:HD11	1:L:168:ALA:CA	2.12	0.76
1:M:405:THR:HG21	1:M:543:ARG:O	1.85	0.76
1:A:414:LEU:HB3	1:A:418:ILE:CD1	2.15	0.76
1:F:405:THR:HG23	1:F:624:PHE:HD1	1.50	0.76
1:H:192:ARG:NH2	1:H:594:MET:HG3	2.00	0.76
1:I:504:SER:OG	1:I:506:VAL:HG22	1.84	0.76
1:M:414:LEU:HB3	1:M:418:ILE:CD1	2.15	0.76
1:A:508:ILE:HG12	1:A:531:CYS:O	1.85	0.76
1:D:414:LEU:HB3	1:D:418:ILE:CD1	2.15	0.76
1:E:36:VAL:CG2	1:E:59:LEU:HD21	2.15	0.76
1:E:504:SER:OG	1:E:506:VAL:HG22	1.84	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:36:VAL:CG2	1:G:59:LEU:HD21	2.15	0.76
1:H:172:HIS:CE1	1:H:532:SER:HB3	2.20	0.76
1:I:405:THR:HG21	1:I:543:ARG:O	1.85	0.76
1:K:57:THR:HA	1:K:60:TYR:HD2	1.50	0.76
1:A:405:THR:HG21	1:A:543:ARG:O	1.85	0.76
1:A:57:THR:HA	1:A:60:TYR:HD2	1.51	0.76
1:C:192:ARG:NH2	1:C:594:MET:HG3	2.00	0.76
1:G:109:PRO:HB2	1:G:112:GLU:HB2	1.68	0.76
1:J:414:LEU:HB3	1:J:418:ILE:CD1	2.15	0.76
1:A:36:VAL:HG21	1:A:59:LEU:CD1	2.14	0.76
1:D:258:LEU:HD13	1:D:330:ASN:HD21	1.51	0.76
1:D:405:THR:HG23	1:D:624:PHE:HD1	1.50	0.76
1:E:192:ARG:NH2	1:E:594:MET:HG3	2.00	0.76
1:H:513:THR:HG23	1:H:516:GLN:H	1.48	0.76
1:I:292:LEU:HB3	1:I:371:HIS:HE1	1.48	0.76
1:I:414:LEU:HB3	1:I:418:ILE:CD1	2.15	0.76
1:K:258:LEU:HD13	1:K:330:ASN:HD21	1.51	0.76
1:L:172:HIS:CE1	1:L:532:SER:HB3	2.21	0.76
1:I:281:TYR:HD2	1:L:287:ASN:ND2	1.84	0.76
1:L:192:ARG:NH2	1:L:594:MET:HG3	2.00	0.76
1:A:405:THR:HG23	1:A:624:PHE:HD1	1.50	0.76
1:D:376:HIS:O	1:D:600:ARG:HD3	1.84	0.76
1:F:110:ILE:HD11	1:F:168:ALA:CA	2.12	0.76
1:F:258:LEU:HD13	1:F:330:ASN:HD21	1.51	0.76
1:I:513:THR:HG23	1:I:516:GLN:H	1.48	0.76
1:J:104:GLY:HA2	1:J:525:GLU:HB3	1.66	0.76
1:J:405:THR:HG21	1:J:543:ARG:O	1.85	0.76
1:J:59:LEU:HD13	1:J:88:PHE:HD1	1.50	0.76
1:M:172:HIS:CD2	1:M:532:SER:HB3	2.20	0.76
1:C:109:PRO:HB2	1:C:112:GLU:HB2	1.68	0.76
1:D:508:ILE:HG12	1:D:531:CYS:O	1.84	0.76
1:E:405:THR:HG23	1:E:624:PHE:HD1	1.50	0.76
1:E:7:ALA:HA	1:E:10:MET:CE	2.16	0.76
1:G:414:LEU:HB3	1:G:418:ILE:CD1	2.15	0.76
1:G:192:ARG:NH2	1:G:594:MET:HG3	2.00	0.76
1:G:59:LEU:HD13	1:G:88:PHE:HD1	1.50	0.76
1:J:411:LEU:HD23	1:J:429:LYS:HA	1.67	0.76
1:L:504:SER:OG	1:L:506:VAL:HG22	1.84	0.76
1:F:414:LEU:HB3	1:F:418:ILE:CD1	2.15	0.76
1:G:258:LEU:HD13	1:G:330:ASN:HD21	1.51	0.76
1:L:7:ALA:HA	1:L:10:MET:CE	2.16	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:305:ILE:HG21	1:M:368:PHE:HZ	1.48	0.76
1:M:405:THR:HG23	1:M:624:PHE:HD1	1.50	0.76
1:A:116:ASP:HA	1:A:124:ILE:HD11	1.67	0.76
1:D:192:ARG:NH2	1:D:594:MET:HG3	2.00	0.76
1:H:108:PRO:HB3	1:H:514:PHE:CZ	2.19	0.76
1:H:7:ALA:HA	1:H:10:MET:CE	2.16	0.76
1:K:414:LEU:HB3	1:K:418:ILE:CD1	2.15	0.76
1:M:110:ILE:HD11	1:M:168:ALA:CA	2.12	0.76
1:C:258:LEU:HD13	1:C:330:ASN:HD21	1.51	0.76
1:J:405:THR:HG23	1:J:624:PHE:CD1	2.21	0.76
1:L:57:THR:HA	1:L:60:TYR:HD2	1.50	0.76
1:M:192:ARG:NH2	1:M:594:MET:HG3	2.00	0.76
1:C:118:PHE:HD2	1:C:164:ILE:HG13	1.46	0.75
1:C:405:THR:HG21	1:C:543:ARG:O	1.85	0.75
1:C:405:THR:HG23	1:C:624:PHE:HD1	1.50	0.75
1:E:414:LEU:HB3	1:E:418:ILE:CD1	2.15	0.75
1:H:116:ASP:HA	1:H:124:ILE:HD11	1.67	0.75
1:I:528:THR:HG21	1:I:573:VAL:CG2	2.16	0.75
1:J:405:THR:HG23	1:J:624:PHE:HD1	1.50	0.75
1:L:258:LEU:HD13	1:L:330:ASN:HD21	1.51	0.75
1:M:59:LEU:HD13	1:M:88:PHE:HD1	1.50	0.75
1:A:7:ALA:HA	1:A:10:MET:CE	2.16	0.75
1:C:414:LEU:HB3	1:C:418:ILE:CD1	2.15	0.75
1:D:223:PHE:HB2	1:D:359:ARG:HG2	1.68	0.75
1:H:176:VAL:HG23	1:H:177:TYR:HD1	1.51	0.75
1:H:405:THR:HG23	1:H:624:PHE:CD1	2.22	0.75
1:H:414:LEU:HB3	1:H:418:ILE:CD1	2.15	0.75
1:J:192:ARG:NH2	1:J:594:MET:HG3	2.00	0.75
1:J:7:ALA:HA	1:J:10:MET:CE	2.16	0.75
1:L:36:VAL:CG2	1:L:59:LEU:HD21	2.15	0.75
1:C:176:VAL:HG23	1:C:177:TYR:HD1	1.51	0.75
1:D:172:HIS:CE1	1:D:532:SER:HB3	2.21	0.75
1:G:411:LEU:HD23	1:G:429:LYS:HA	1.67	0.75
1:K:7:ALA:HA	1:K:10:MET:CE	2.16	0.75
1:K:223:PHE:HB2	1:K:359:ARG:HG2	1.68	0.75
1:K:405:THR:HG23	1:K:624:PHE:HD1	1.50	0.75
1:L:109:PRO:HB2	1:L:112:GLU:HB2	1.68	0.75
1:M:258:LEU:HD13	1:M:330:ASN:HD21	1.51	0.75
1:A:192:ARG:NH2	1:A:594:MET:HG3	2.00	0.75
1:C:20:THR:HG22	1:C:21:ARG:H	1.49	0.75
1:E:109:PRO:HB2	1:E:112:GLU:HB2	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:57:THR:HA	1:F:60:TYR:HD2	1.51	0.75
1:G:405:THR:HG21	1:G:543:ARG:O	1.85	0.75
1:I:192:ARG:NH2	1:I:594:MET:HG3	2.00	0.75
1:L:414:LEU:HB3	1:L:418:ILE:CD1	2.15	0.75
1:A:118:PHE:HD2	1:A:164:ILE:HG13	1.46	0.75
1:A:258:LEU:HD13	1:A:330:ASN:HD21	1.51	0.75
1:C:172:HIS:CD2	1:C:532:SER:HB3	2.22	0.75
1:C:57:THR:HA	1:C:60:TYR:HD2	1.50	0.75
1:D:36:VAL:CG2	1:D:59:LEU:HD21	2.15	0.75
1:E:411:LEU:HD23	1:E:429:LYS:HA	1.67	0.75
1:F:7:ALA:HA	1:F:10:MET:CE	2.16	0.75
1:H:258:LEU:HD13	1:H:330:ASN:HD21	1.51	0.75
1:H:405:THR:HG23	1:H:624:PHE:HD1	1.50	0.75
1:L:176:VAL:HG23	1:L:177:TYR:HD1	1.51	0.75
1:C:405:THR:HG23	1:C:624:PHE:CD1	2.22	0.75
1:G:176:VAL:HG23	1:G:177:TYR:HD1	1.51	0.75
1:G:223:PHE:HB2	1:G:359:ARG:HG2	1.68	0.75
1:J:41:ARG:HG3	1:J:42:GLY:N	2.02	0.75
1:A:36:VAL:HG21	1:A:59:LEU:HD11	1.68	0.75
1:C:283:VAL:HG12	1:C:289:LYS:HE3	1.67	0.75
1:D:350:THR:O	1:D:353:ARG:HG2	1.87	0.75
1:D:405:THR:HG23	1:D:624:PHE:CD1	2.22	0.75
1:G:41:ARG:HG3	1:G:42:GLY:N	2.02	0.75
1:G:41:ARG:CA	1:G:84:ASN:HB2	2.11	0.75
1:H:405:THR:HG21	1:H:543:ARG:O	1.85	0.75
1:J:223:PHE:HB2	1:J:359:ARG:HG2	1.68	0.75
1:K:109:PRO:O	1:K:113:VAL:HG13	1.87	0.75
1:M:109:PRO:HB2	1:M:112:GLU:HB2	1.68	0.75
1:M:7:ALA:HA	1:M:10:MET:CE	2.16	0.75
1:C:7:ALA:HA	1:C:10:MET:CE	2.16	0.75
1:E:172:HIS:CE1	1:E:532:SER:HB3	2.21	0.75
1:G:7:ALA:HA	1:G:10:MET:CE	2.16	0.75
1:I:405:THR:HG23	1:I:624:PHE:CD1	2.21	0.75
1:I:405:THR:HG23	1:I:624:PHE:HD1	1.50	0.75
1:L:350:THR:O	1:L:353:ARG:HG2	1.87	0.75
1:M:405:THR:HG23	1:M:624:PHE:CD1	2.21	0.75
1:D:57:THR:HA	1:D:60:TYR:HD2	1.50	0.75
1:D:7:ALA:HA	1:D:10:MET:CE	2.16	0.75
1:E:258:LEU:HD13	1:E:330:ASN:HD21	1.51	0.75
1:I:350:THR:O	1:I:353:ARG:HG2	1.87	0.75
1:K:411:LEU:HD23	1:K:429:LYS:HA	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:41:ARG:HG3	1:D:42:GLY:N	2.02	0.74
1:E:405:THR:HG23	1:E:624:PHE:CD1	2.22	0.74
1:I:100:GLU:HA	1:I:527:SER:CB	2.11	0.74
1:I:608:ALA:HA	1:I:611:LEU:HD13	1.70	0.74
1:L:405:THR:HG23	1:L:624:PHE:HA	1.69	0.74
1:M:59:LEU:HB3	1:M:91:ALA:CB	2.14	0.74
1:A:109:PRO:O	1:A:113:VAL:HG13	1.87	0.74
1:C:120:PRO:O	1:C:123:THR:HG22	1.88	0.74
1:C:38:ILE:CB	1:D:605:ARG:NH2	2.43	0.74
1:E:405:THR:HG23	1:E:624:PHE:HA	1.69	0.74
1:G:405:THR:HG23	1:G:624:PHE:CD1	2.21	0.74
1:H:109:PRO:HB2	1:H:112:GLU:HB2	1.68	0.74
1:K:176:VAL:HG23	1:K:177:TYR:HD1	1.51	0.74
1:L:405:THR:HG21	1:L:543:ARG:O	1.85	0.74
1:C:223:PHE:HB2	1:C:359:ARG:HG2	1.68	0.74
1:D:109:PRO:HB2	1:D:112:GLU:HB2	1.67	0.74
1:E:109:PRO:O	1:E:113:VAL:HG13	1.87	0.74
1:E:41:ARG:HG3	1:E:42:GLY:N	2.02	0.74
1:F:109:PRO:O	1:F:113:VAL:HG13	1.87	0.74
1:F:172:HIS:CE1	1:F:532:SER:HB3	2.21	0.74
1:H:405:THR:HG23	1:H:624:PHE:HA	1.70	0.74
1:J:258:LEU:HD13	1:J:330:ASN:HD21	1.51	0.74
1:L:405:THR:HG23	1:L:624:PHE:HD1	1.50	0.74
1:M:396:ASN:HB2	1:M:439:THR:HG22	1.70	0.74
1:A:41:ARG:HG3	1:A:42:GLY:N	2.02	0.74
1:D:405:THR:HG23	1:D:624:PHE:HA	1.70	0.74
1:F:350:THR:O	1:F:353:ARG:HG2	1.87	0.74
1:F:405:THR:HG23	1:F:624:PHE:CD1	2.22	0.74
1:G:396:ASN:HB2	1:G:439:THR:HG22	1.70	0.74
1:I:223:PHE:HB2	1:I:359:ARG:HG2	1.68	0.74
1:J:118:PHE:HD2	1:J:164:ILE:HG13	1.46	0.74
1:J:176:VAL:HG23	1:J:177:TYR:HD1	1.51	0.74
1:J:608:ALA:HA	1:J:611:LEU:HD13	1.69	0.74
1:K:172:HIS:CE1	1:K:532:SER:HB3	2.23	0.74
1:L:396:ASN:HB2	1:L:439:THR:HG22	1.70	0.74
1:L:405:THR:HG23	1:L:624:PHE:CD1	2.22	0.74
1:A:305:ILE:O	1:A:305:ILE:HD13	1.88	0.74
1:A:405:THR:HG23	1:A:624:PHE:CD1	2.22	0.74
1:F:109:PRO:HB2	1:F:112:GLU:HB2	1.68	0.74
1:G:608:ALA:HA	1:G:611:LEU:HD13	1.69	0.74
1:I:396:ASN:HB2	1:I:439:THR:HG22	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:57:THR:HA	1:I:60:TYR:HD2	1.51	0.74
1:J:109:PRO:HB2	1:J:112:GLU:HB2	1.68	0.74
1:K:350:THR:O	1:K:353:ARG:HG2	1.87	0.74
1:L:172:HIS:CD2	1:L:532:SER:HB3	2.22	0.74
1:A:120:PRO:O	1:A:123:THR:HG22	1.88	0.74
1:E:172:HIS:CD2	1:E:532:SER:HB3	2.23	0.74
1:E:350:THR:O	1:E:353:ARG:HG2	1.87	0.74
1:E:57:THR:HA	1:E:60:TYR:HD2	1.50	0.74
1:F:36:VAL:CG2	1:F:59:LEU:HD21	2.15	0.74
1:F:608:ALA:HA	1:F:611:LEU:HD13	1.69	0.74
1:I:305:ILE:HD13	1:I:305:ILE:O	1.88	0.74
1:K:109:PRO:HB2	1:K:112:GLU:HB2	1.68	0.74
1:L:166:ILE:HD11	1:L:539:MET:HE2	1.69	0.74
1:A:350:THR:O	1:A:353:ARG:HG2	1.87	0.74
1:A:38:ILE:CG1	1:A:55:GLU:CD	2.55	0.74
1:A:396:ASN:HB2	1:A:439:THR:HG22	1.70	0.74
1:E:396:ASN:HB2	1:E:439:THR:HG22	1.70	0.74
1:E:608:ALA:HA	1:E:611:LEU:HD13	1.69	0.74
1:G:350:THR:O	1:G:353:ARG:HG2	1.87	0.74
1:H:172:HIS:CD2	1:H:532:SER:HB3	2.22	0.74
1:I:281:TYR:CD2	1:L:287:ASN:ND2	2.56	0.74
1:A:17:THR:HG23	1:A:241:VAL:HB	1.69	0.74
1:C:405:THR:HG23	1:C:624:PHE:HA	1.69	0.74
1:D:172:HIS:CD2	1:D:532:SER:HB3	2.22	0.74
1:I:258:LEU:HD13	1:I:330:ASN:HD21	1.51	0.74
1:M:109:PRO:O	1:M:113:VAL:HG13	1.87	0.74
1:M:305:ILE:O	1:M:305:ILE:HD13	1.88	0.74
1:C:350:THR:O	1:C:353:ARG:HG2	1.87	0.74
1:D:396:ASN:HB2	1:D:439:THR:HG22	1.70	0.74
1:F:172:HIS:CD2	1:F:532:SER:HB3	2.22	0.74
1:F:41:ARG:HG3	1:F:42:GLY:N	2.02	0.74
1:F:36:VAL:HG21	1:F:59:LEU:CD2	2.18	0.74
1:H:109:PRO:O	1:H:113:VAL:HG13	1.87	0.74
1:H:120:PRO:O	1:H:123:THR:HG22	1.88	0.74
1:H:350:THR:O	1:H:353:ARG:HG2	1.87	0.74
1:H:608:ALA:HA	1:H:611:LEU:HD13	1.69	0.74
1:J:109:PRO:O	1:J:113:VAL:HG13	1.87	0.74
1:C:41:ARG:HG3	1:C:42:GLY:N	2.02	0.74
1:F:223:PHE:HB2	1:F:359:ARG:HG2	1.68	0.74
1:H:253:TYR:CE1	1:I:253:TYR:CE2	2.76	0.74
1:K:41:ARG:HG3	1:K:42:GLY:N	2.02	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:405:THR:HG23	1:K:624:PHE:CD1	2.22	0.74
1:C:608:ALA:HA	1:C:611:LEU:HD13	1.69	0.73
1:J:350:THR:O	1:J:353:ARG:HG2	1.87	0.73
1:K:172:HIS:CD2	1:K:532:SER:HB3	2.23	0.73
1:A:172:HIS:CD2	1:A:532:SER:HB3	2.23	0.73
1:G:305:ILE:HD13	1:G:305:ILE:O	1.88	0.73
1:A:109:PRO:HB2	1:A:112:GLU:HB2	1.68	0.73
1:C:305:ILE:O	1:C:305:ILE:HD13	1.88	0.73
1:D:540:LEU:HG	1:D:541:ILE:HD12	1.71	0.73
1:E:111:GLN:HG2	1:E:164:ILE:HG12	1.70	0.73
1:H:540:LEU:HG	1:H:541:ILE:HD12	1.71	0.73
1:I:540:LEU:HG	1:I:541:ILE:HD12	1.71	0.73
1:I:77:GLU:HA	1:I:80:ARG:NH2	2.03	0.73
1:L:405:THR:CG2	1:L:624:PHE:HA	2.19	0.73
1:L:540:LEU:HG	1:L:541:ILE:HD12	1.71	0.73
1:M:350:THR:O	1:M:353:ARG:HG2	1.87	0.73
1:M:175:ILE:HG21	1:M:528:THR:HG21	1.70	0.73
1:A:405:THR:CG2	1:A:624:PHE:HA	2.19	0.73
1:A:62:ALA:HB1	1:A:75:LEU:HD21	1.69	0.73
1:C:109:PRO:O	1:C:113:VAL:HG13	1.87	0.73
1:D:109:PRO:O	1:D:113:VAL:HG13	1.87	0.73
1:G:41:ARG:HG3	1:G:42:GLY:H	1.54	0.73
1:G:7:ALA:HA	1:G:10:MET:HE3	1.70	0.73
1:L:305:ILE:HD13	1:L:305:ILE:O	1.88	0.73
1:L:41:ARG:HG3	1:L:42:GLY:N	2.02	0.73
1:M:111:GLN:HG2	1:M:164:ILE:HG12	1.70	0.73
1:A:608:ALA:HA	1:A:611:LEU:HD13	1.70	0.73
1:C:405:THR:CG2	1:C:624:PHE:HA	2.19	0.73
1:H:111:GLN:HG2	1:H:164:ILE:HG12	1.70	0.73
1:H:305:ILE:HD13	1:H:305:ILE:O	1.88	0.73
1:A:111:GLN:HG2	1:A:164:ILE:HG12	1.70	0.73
1:A:405:THR:HG23	1:A:624:PHE:HA	1.70	0.73
1:E:36:VAL:HG21	1:E:59:LEU:CD2	2.18	0.73
1:E:7:ALA:HA	1:E:10:MET:HE3	1.71	0.73
1:F:41:ARG:HG3	1:F:42:GLY:H	1.54	0.73
1:G:405:THR:CG2	1:G:624:PHE:HA	2.19	0.73
1:H:57:THR:HA	1:H:60:TYR:HD2	1.50	0.73
1:I:264:GLN:HE22	1:J:224:HIS:CE1	2.05	0.73
1:J:616:GLY:C	1:J:617:LEU:HD12	2.09	0.73
1:K:608:ALA:HA	1:K:611:LEU:HD13	1.70	0.73
1:L:109:PRO:O	1:L:113:VAL:HG13	1.87	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:616:GLY:C	1:M:617:LEU:HD12	2.09	0.73
1:A:121:ALA:CB	1:A:238:THR:HG23	2.19	0.73
1:C:395:ILE:HG13	1:C:401:ASN:HA	1.71	0.73
1:D:176:VAL:HG23	1:D:177:TYR:HD1	1.51	0.73
1:D:405:THR:CG2	1:D:624:PHE:HA	2.19	0.73
1:D:41:ARG:HG3	1:D:42:GLY:H	1.54	0.73
1:F:396:ASN:HB2	1:F:439:THR:HG22	1.70	0.73
1:H:405:THR:CG2	1:H:624:PHE:HA	2.19	0.73
1:K:395:ILE:HG13	1:K:401:ASN:HA	1.71	0.73
1:L:41:ARG:HG3	1:L:42:GLY:H	1.54	0.73
1:A:540:LEU:HG	1:A:541:ILE:HD12	1.71	0.73
1:A:60:TYR:HD1	1:A:91:ALA:O	1.72	0.73
1:G:511:VAL:HG23	1:G:531:CYS:SG	2.29	0.73
1:H:511:VAL:HG23	1:H:531:CYS:SG	2.29	0.73
1:I:395:ILE:HG13	1:I:401:ASN:HA	1.71	0.73
1:I:41:ARG:HG3	1:I:42:GLY:N	2.03	0.73
1:I:616:GLY:C	1:I:617:LEU:HD12	2.09	0.73
1:K:405:THR:CG2	1:K:624:PHE:HA	2.19	0.73
1:M:41:ARG:HG3	1:M:42:GLY:N	2.02	0.73
1:E:405:THR:CG2	1:E:624:PHE:HA	2.19	0.73
1:F:511:VAL:HG23	1:F:531:CYS:SG	2.29	0.73
1:G:395:ILE:HG13	1:G:401:ASN:HA	1.71	0.73
1:I:176:VAL:HG23	1:I:177:TYR:HD1	1.51	0.73
1:J:395:ILE:HG13	1:J:401:ASN:HA	1.71	0.73
1:K:540:LEU:HG	1:K:541:ILE:HD12	1.71	0.73
1:L:616:GLY:C	1:L:617:LEU:HD12	2.09	0.73
1:M:405:THR:HG23	1:M:624:PHE:HA	1.70	0.73
1:A:38:ILE:HG12	1:A:55:GLU:CD	2.08	0.73
1:E:86:GLY:O	1:E:89:VAL:HG12	1.89	0.73
1:G:109:PRO:O	1:G:113:VAL:HG13	1.87	0.73
1:I:121:ALA:CB	1:I:238:THR:HG23	2.19	0.73
1:J:111:GLN:HG2	1:J:164:ILE:HG12	1.70	0.73
1:J:405:THR:CG2	1:J:624:PHE:HA	2.19	0.73
1:K:41:ARG:HG3	1:K:42:GLY:H	1.54	0.73
1:M:405:THR:CG2	1:M:624:PHE:HA	2.19	0.73
1:M:41:ARG:HG3	1:M:42:GLY:H	1.54	0.73
1:A:395:ILE:HG13	1:A:401:ASN:HA	1.71	0.72
1:A:616:GLY:C	1:A:617:LEU:HD12	2.09	0.72
1:A:86:GLY:O	1:A:89:VAL:HG12	1.89	0.72
1:C:511:VAL:HG23	1:C:531:CYS:SG	2.29	0.72
1:C:616:GLY:C	1:C:617:LEU:HD12	2.09	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:540:LEU:HG	1:G:541:ILE:HD12	1.71	0.72
1:G:59:LEU:HB3	1:G:91:ALA:CB	2.14	0.72
1:G:405:THR:HG23	1:G:624:PHE:HA	1.70	0.72
1:L:511:VAL:HG23	1:L:531:CYS:SG	2.29	0.72
1:M:608:ALA:HA	1:M:611:LEU:HD13	1.69	0.72
1:A:511:VAL:HG23	1:A:531:CYS:SG	2.29	0.72
1:D:511:VAL:HG23	1:D:531:CYS:SG	2.29	0.72
1:E:511:VAL:HG23	1:E:531:CYS:SG	2.29	0.72
1:H:86:GLY:O	1:H:89:VAL:HG12	1.89	0.72
1:J:36:VAL:CG2	1:J:59:LEU:HD21	2.15	0.72
1:J:511:VAL:HG23	1:J:531:CYS:SG	2.29	0.72
1:L:395:ILE:HG13	1:L:401:ASN:HA	1.71	0.72
1:C:86:GLY:O	1:C:89:VAL:HG12	1.89	0.72
1:D:395:ILE:HG13	1:D:401:ASN:HA	1.71	0.72
1:E:176:VAL:HG23	1:E:177:TYR:HD1	1.51	0.72
1:H:121:ALA:CB	1:H:238:THR:HG23	2.19	0.72
1:K:405:THR:HG23	1:K:624:PHE:HA	1.70	0.72
1:L:86:GLY:O	1:L:89:VAL:HG12	1.89	0.72
1:A:240:LEU:HD23	1:A:241:VAL:H	1.55	0.72
1:A:17:THR:OG1	1:A:241:VAL:HG12	1.89	0.72
1:F:405:THR:CG2	1:F:624:PHE:HA	2.19	0.72
1:J:305:ILE:O	1:J:305:ILE:HD13	1.88	0.72
1:J:41:ARG:HG3	1:J:42:GLY:H	1.54	0.72
1:J:540:LEU:HG	1:J:541:ILE:HD12	1.71	0.72
1:C:396:ASN:HB2	1:C:439:THR:HG22	1.70	0.72
1:D:608:ALA:HA	1:D:611:LEU:HD13	1.70	0.72
1:F:305:ILE:HD13	1:F:305:ILE:O	1.88	0.72
1:K:616:GLY:C	1:K:617:LEU:HD12	2.09	0.72
1:L:111:GLN:HG2	1:L:164:ILE:HG12	1.70	0.72
1:F:405:THR:HG23	1:F:624:PHE:HA	1.69	0.72
1:I:111:GLN:HG2	1:I:164:ILE:HG12	1.70	0.72
1:K:511:VAL:HG23	1:K:531:CYS:SG	2.30	0.72
1:M:511:VAL:HG23	1:M:531:CYS:SG	2.30	0.72
1:D:305:ILE:HD13	1:D:305:ILE:O	1.88	0.72
1:D:86:GLY:O	1:D:89:VAL:HG12	1.89	0.72
1:G:563:ASP:OD1	1:G:592:LYS:HD3	1.90	0.72
1:H:166:ILE:HG22	1:H:352:LEU:CD1	2.20	0.72
1:H:616:GLY:C	1:H:617:LEU:HD12	2.09	0.72
1:I:86:GLY:O	1:I:89:VAL:HG12	1.89	0.72
1:K:396:ASN:HB2	1:K:439:THR:HG22	1.70	0.72
1:M:166:ILE:HD11	1:M:539:MET:HE2	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:121:ALA:CB	1:C:238:THR:HG23	2.19	0.72
1:E:540:LEU:HG	1:E:541:ILE:HD12	1.71	0.72
1:G:121:ALA:CB	1:G:238:THR:HG23	2.19	0.72
1:G:616:GLY:C	1:G:617:LEU:HD12	2.09	0.72
1:H:396:ASN:HB2	1:H:439:THR:HG22	1.70	0.72
1:I:240:LEU:HD23	1:I:241:VAL:H	1.55	0.72
1:I:405:THR:CG2	1:I:624:PHE:HA	2.19	0.72
1:J:405:THR:HG23	1:J:624:PHE:HA	1.70	0.72
1:J:396:ASN:HB2	1:J:439:THR:HG22	1.70	0.72
1:K:86:GLY:O	1:K:89:VAL:HG12	1.89	0.72
1:A:6:GLN:NE2	1:A:106:THR:H	1.88	0.72
1:D:563:ASP:OD1	1:D:592:LYS:HD3	1.90	0.72
1:E:563:ASP:OD1	1:E:592:LYS:HD3	1.90	0.72
1:M:563:ASP:OD1	1:M:592:LYS:HD3	1.90	0.72
1:M:7:ALA:HA	1:M:10:MET:HE3	1.70	0.72
1:E:616:GLY:C	1:E:617:LEU:HD12	2.09	0.72
1:F:616:GLY:C	1:F:617:LEU:HD12	2.09	0.72
1:J:166:ILE:HG22	1:J:352:LEU:CD1	2.20	0.72
1:L:608:ALA:HA	1:L:611:LEU:HD13	1.69	0.72
1:A:166:ILE:HG22	1:A:352:LEU:CD1	2.20	0.71
1:A:563:ASP:OD1	1:A:592:LYS:HD3	1.90	0.71
1:C:166:ILE:HG22	1:C:352:LEU:CD1	2.20	0.71
1:E:121:ALA:CB	1:E:238:THR:HG23	2.19	0.71
1:E:166:ILE:HG22	1:E:352:LEU:CD1	2.20	0.71
1:F:395:ILE:HG13	1:F:401:ASN:HA	1.71	0.71
1:F:540:LEU:HG	1:F:541:ILE:HD12	1.71	0.71
1:I:166:ILE:HG22	1:I:352:LEU:CD1	2.20	0.71
1:D:253:TYR:CD2	1:E:253:TYR:CE1	2.77	0.71
1:G:111:GLN:HG2	1:G:164:ILE:HG12	1.70	0.71
1:H:563:ASP:OD1	1:H:592:LYS:HD3	1.90	0.71
1:I:405:THR:HG23	1:I:624:PHE:HA	1.70	0.71
1:J:563:ASP:OD1	1:J:592:LYS:HD3	1.90	0.71
1:L:36:VAL:HG21	1:L:59:LEU:CD2	2.18	0.71
1:M:540:LEU:HG	1:M:541:ILE:HD12	1.71	0.71
1:C:38:ILE:CG1	1:D:605:ARG:NH2	2.54	0.71
1:G:117:ARG:HG3	1:G:118:PHE:CE1	2.26	0.71
1:G:508:ILE:HG12	1:G:531:CYS:O	1.90	0.71
1:J:117:ARG:HG3	1:J:118:PHE:CE1	2.25	0.71
1:L:166:ILE:HG22	1:L:352:LEU:CD1	2.20	0.71
1:A:117:ARG:HG3	1:A:118:PHE:CE1	2.25	0.71
1:A:59:LEU:HD12	1:A:87:MET:HG2	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:111:GLN:HG2	1:C:164:ILE:HG12	1.70	0.71
1:E:395:ILE:HG13	1:E:401:ASN:HA	1.71	0.71
1:H:395:ILE:HG13	1:H:401:ASN:HA	1.71	0.71
1:J:244:LEU:HB3	1:J:341:ASN:ND2	2.05	0.71
1:K:111:GLN:HG2	1:K:164:ILE:HG12	1.70	0.71
1:K:563:ASP:OD1	1:K:592:LYS:HD3	1.90	0.71
1:A:41:ARG:HG3	1:A:42:GLY:H	1.54	0.71
1:D:166:ILE:HG22	1:D:352:LEU:CD1	2.20	0.71
1:D:36:VAL:HG21	1:D:59:LEU:CD2	2.18	0.71
1:D:616:GLY:C	1:D:617:LEU:HD12	2.09	0.71
1:G:59:LEU:HD13	1:G:88:PHE:CD1	2.25	0.71
1:K:19:LEU:CD2	1:K:80:ARG:HB3	2.21	0.71
1:M:166:ILE:HG22	1:M:352:LEU:CD1	2.20	0.71
1:M:395:ILE:HG13	1:M:401:ASN:HA	1.71	0.71
1:M:59:LEU:HD13	1:M:88:PHE:CD1	2.25	0.71
1:D:111:GLN:HG2	1:D:164:ILE:HG12	1.70	0.71
1:E:41:ARG:HG3	1:E:42:GLY:H	1.54	0.71
1:F:111:GLN:HG2	1:F:164:ILE:HG12	1.70	0.71
1:F:86:GLY:O	1:F:89:VAL:HG12	1.89	0.71
1:I:305:ILE:HG21	1:I:368:PHE:CZ	2.26	0.71
1:I:399:THR:O	1:I:402:VAL:HG22	1.91	0.71
1:K:166:ILE:HG22	1:K:352:LEU:CD1	2.20	0.71
1:M:157:LEU:HD21	1:M:212:ARG:HG2	1.73	0.71
1:C:540:LEU:HG	1:C:541:ILE:HD12	1.71	0.71
1:L:563:ASP:OD1	1:L:592:LYS:HD3	1.90	0.71
1:M:176:VAL:HG23	1:M:177:TYR:HD1	1.51	0.71
1:A:399:THR:O	1:A:402:VAL:HG22	1.91	0.71
1:H:117:ARG:HG3	1:H:118:PHE:CE1	2.25	0.71
1:C:116:ASP:HA	1:C:124:ILE:CD1	2.21	0.71
1:E:399:THR:O	1:E:402:VAL:HG22	1.91	0.71
1:F:166:ILE:HG22	1:F:352:LEU:CD1	2.20	0.71
1:G:19:LEU:HD23	1:G:80:ARG:HB3	1.72	0.71
1:J:157:LEU:HD21	1:J:212:ARG:HG2	1.73	0.71
1:K:118:PHE:HE2	1:K:167:ASN:HB2	1.54	0.71
1:L:606:THR:HG22	1:L:609:GLU:HG3	1.73	0.71
1:M:399:THR:O	1:M:402:VAL:HG22	1.91	0.71
1:A:19:LEU:CD2	1:A:80:ARG:HB3	2.21	0.71
1:C:117:ARG:HG3	1:C:118:PHE:CE1	2.25	0.71
1:G:166:ILE:HG22	1:G:352:LEU:CD1	2.20	0.71
1:I:563:ASP:OD1	1:I:592:LYS:HD3	1.90	0.71
1:I:606:THR:HG22	1:I:609:GLU:HG3	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:175:ILE:HG21	1:L:528:THR:HG21	1.73	0.71
1:A:176:VAL:HG23	1:A:177:TYR:HD1	1.51	0.70
1:C:399:THR:O	1:C:402:VAL:HG22	1.91	0.70
1:C:453:HIS:NE2	1:I:184:THR:HB	2.05	0.70
1:E:442:ILE:CG2	1:E:497:ILE:HB	2.21	0.70
1:E:175:ILE:HG21	1:E:528:THR:HG21	1.73	0.70
1:E:19:LEU:CD2	1:E:80:ARG:HB3	2.21	0.70
1:F:117:ARG:HG3	1:F:118:PHE:CE1	2.25	0.70
1:F:176:VAL:HG23	1:F:177:TYR:HD1	1.51	0.70
1:J:395:ILE:CD1	1:J:620:ILE:HG21	2.21	0.70
1:C:129:LYS:HG2	1:C:133:ASN:OD1	1.91	0.70
1:C:395:ILE:CD1	1:C:620:ILE:HG21	2.22	0.70
1:D:117:ARG:HG3	1:D:118:PHE:CE1	2.25	0.70
1:E:606:THR:HG22	1:E:609:GLU:HG3	1.73	0.70
1:G:399:THR:O	1:G:402:VAL:HG22	1.91	0.70
1:J:305:ILE:HG21	1:J:368:PHE:CZ	2.26	0.70
1:L:305:ILE:HG21	1:L:368:PHE:CZ	2.26	0.70
1:L:442:ILE:CG2	1:L:497:ILE:HB	2.22	0.70
1:M:395:ILE:CD1	1:M:620:ILE:HG21	2.21	0.70
1:A:17:THR:HG21	1:A:241:VAL:HA	1.73	0.70
1:F:395:ILE:CD1	1:F:620:ILE:HG21	2.21	0.70
1:G:606:THR:HG22	1:G:609:GLU:HG3	1.73	0.70
1:I:117:ARG:HG3	1:I:118:PHE:CE1	2.25	0.70
1:I:442:ILE:CG2	1:I:497:ILE:HB	2.22	0.70
1:J:59:LEU:HD13	1:J:88:PHE:CD1	2.25	0.70
1:K:175:ILE:HG21	1:K:528:THR:HG21	1.73	0.70
1:L:395:ILE:CD1	1:L:620:ILE:HG21	2.21	0.70
1:M:117:ARG:HG3	1:M:118:PHE:CE1	2.25	0.70
1:D:606:THR:HG22	1:D:609:GLU:HG3	1.73	0.70
1:F:129:LYS:HG2	1:F:133:ASN:OD1	1.91	0.70
1:I:129:LYS:HG2	1:I:133:ASN:OD1	1.92	0.70
1:A:116:ASP:HA	1:A:124:ILE:CD1	2.21	0.70
1:A:36:VAL:HG22	1:A:37:GLY:H	1.57	0.70
1:A:442:ILE:CG2	1:A:497:ILE:HB	2.22	0.70
1:C:19:LEU:CD2	1:C:80:ARG:HB3	2.21	0.70
1:C:41:ARG:HG3	1:C:42:GLY:H	1.54	0.70
1:D:36:VAL:HG22	1:D:37:GLY:H	1.57	0.70
1:F:19:LEU:CD2	1:F:80:ARG:HB3	2.21	0.70
1:F:399:THR:O	1:F:402:VAL:HG22	1.91	0.70
1:K:526:ASP:OD2	1:K:573:VAL:HG23	1.90	0.70
1:M:508:ILE:HG12	1:M:531:CYS:O	1.90	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:157:LEU:HD21	1:C:212:ARG:HG2	1.73	0.70
1:C:442:ILE:CG2	1:C:497:ILE:HB	2.22	0.70
1:D:129:LYS:HG2	1:D:133:ASN:OD1	1.92	0.70
1:H:399:THR:O	1:H:402:VAL:HG22	1.91	0.70
1:J:508:ILE:HG12	1:J:531:CYS:O	1.91	0.70
1:L:19:LEU:CD2	1:L:80:ARG:HB3	2.21	0.70
1:L:399:THR:O	1:L:402:VAL:HG22	1.91	0.70
1:M:305:ILE:HG21	1:M:368:PHE:CZ	2.26	0.70
1:E:129:LYS:HG2	1:E:133:ASN:OD1	1.92	0.70
1:E:395:ILE:CD1	1:E:620:ILE:HG21	2.22	0.70
1:G:395:ILE:CD1	1:G:620:ILE:HG21	2.21	0.70
1:I:395:ILE:CD1	1:I:620:ILE:HG21	2.22	0.70
1:L:157:LEU:HD21	1:L:212:ARG:HG2	1.73	0.70
1:A:284:ASP:HB2	1:A:286:ASP:OD1	1.92	0.70
1:D:19:LEU:CD2	1:D:80:ARG:HB3	2.21	0.70
1:D:337:ARG:HA	1:E:151:LEU:HD23	1.73	0.70
1:F:305:ILE:HG21	1:F:368:PHE:CZ	2.26	0.70
1:F:563:ASP:OD1	1:F:592:LYS:HD3	1.90	0.70
1:H:253:TYR:CD2	1:I:253:TYR:CE1	2.79	0.70
1:H:395:ILE:CD1	1:H:620:ILE:HG21	2.21	0.70
1:H:442:ILE:CG2	1:H:497:ILE:HB	2.22	0.70
1:K:395:ILE:CD1	1:K:620:ILE:HG21	2.21	0.70
1:C:175:ILE:HG21	1:C:528:THR:HG21	1.72	0.70
1:D:253:TYR:CE1	1:E:253:TYR:CE2	2.80	0.70
1:D:395:ILE:CD1	1:D:620:ILE:HG21	2.21	0.70
1:E:117:ARG:HG3	1:E:118:PHE:CE1	2.25	0.70
1:E:284:ASP:HB2	1:E:286:ASP:OD1	1.92	0.70
1:E:292:LEU:HD22	1:E:300:ILE:HD11	1.73	0.70
1:E:526:ASP:OD2	1:E:573:VAL:HG23	1.92	0.70
1:G:172:HIS:CG	1:G:532:SER:HB3	2.27	0.70
1:H:237:LEU:O	1:H:245:GLN:HB2	1.92	0.70
1:M:19:LEU:HD23	1:M:80:ARG:HB3	1.72	0.70
1:H:157:LEU:HD21	1:H:212:ARG:HG2	1.73	0.70
1:J:606:THR:HG22	1:J:609:GLU:HG3	1.73	0.70
1:K:157:LEU:HD21	1:K:212:ARG:HG2	1.73	0.70
1:L:129:LYS:HG2	1:L:133:ASN:OD1	1.91	0.70
1:A:129:LYS:HG2	1:A:133:ASN:OD1	1.92	0.69
1:A:584:ARG:HG2	1:A:585:ASP:N	2.06	0.69
1:A:395:ILE:CD1	1:A:620:ILE:HG21	2.21	0.69
1:D:442:ILE:CG2	1:D:497:ILE:HB	2.22	0.69
1:E:157:LEU:HD21	1:E:212:ARG:HG2	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:116:ASP:HA	1:H:124:ILE:CD1	2.21	0.69
1:J:172:HIS:CG	1:J:532:SER:HB3	2.26	0.69
1:K:399:THR:O	1:K:402:VAL:HG22	1.91	0.69
1:L:117:ARG:HG3	1:L:118:PHE:CE1	2.25	0.69
1:A:237:LEU:O	1:A:245:GLN:HB2	1.92	0.69
1:C:284:ASP:HB2	1:C:286:ASP:OD1	1.92	0.69
1:C:305:ILE:HG21	1:C:368:PHE:CZ	2.26	0.69
1:G:36:VAL:HG21	1:G:59:LEU:CD2	2.18	0.69
1:H:60:TYR:CE1	1:H:94:VAL:HG21	2.28	0.69
1:M:284:ASP:HB2	1:M:286:ASP:OD1	1.92	0.69
1:D:284:ASP:HB2	1:D:286:ASP:OD1	1.92	0.69
1:D:399:THR:O	1:D:402:VAL:HG22	1.91	0.69
1:E:111:GLN:HA	1:E:118:PHE:CD1	2.28	0.69
1:D:253:TYR:CZ	1:E:253:TYR:CE2	2.80	0.69
1:F:290:ILE:HG13	1:F:290:ILE:O	1.93	0.69
1:G:290:ILE:HG13	1:G:290:ILE:O	1.93	0.69
1:H:305:ILE:HG21	1:H:368:PHE:CZ	2.26	0.69
1:I:60:TYR:CE1	1:I:94:VAL:HG21	2.27	0.69
1:J:399:THR:O	1:J:402:VAL:HG22	1.91	0.69
1:K:237:LEU:O	1:K:245:GLN:HB2	1.92	0.69
1:A:157:LEU:HD21	1:A:212:ARG:HG2	1.73	0.69
1:D:237:LEU:O	1:D:245:GLN:HB2	1.92	0.69
1:G:442:ILE:CG2	1:G:497:ILE:HB	2.22	0.69
1:J:36:VAL:HG22	1:J:37:GLY:H	1.57	0.69
1:L:111:GLN:HA	1:L:118:PHE:CD1	2.28	0.69
1:K:224:HIS:CE1	1:M:264:GLN:HE21	1.96	0.69
1:M:442:ILE:CG2	1:M:497:ILE:HB	2.22	0.69
1:A:111:GLN:HA	1:A:118:PHE:CD1	2.28	0.69
1:A:305:ILE:HG21	1:A:368:PHE:CZ	2.26	0.69
1:E:303:ASP:C	1:E:311:SER:HA	2.11	0.69
1:E:60:TYR:CE1	1:E:94:VAL:HG21	2.28	0.69
1:F:237:LEU:O	1:F:245:GLN:HB2	1.92	0.69
1:H:115:PRO:CB	1:H:414:LEU:HD22	2.23	0.69
1:I:111:GLN:HA	1:I:118:PHE:CD1	2.28	0.69
1:J:284:ASP:HB2	1:J:286:ASP:OD1	1.92	0.69
1:M:129:LYS:HG2	1:M:133:ASN:OD1	1.91	0.69
1:C:166:ILE:HD11	1:C:539:MET:HE2	1.74	0.69
1:D:476:GLN:HB3	1:D:480:PHE:CE2	2.28	0.69
1:E:166:ILE:HD11	1:E:539:MET:HE2	1.73	0.69
1:F:442:ILE:CG2	1:F:497:ILE:HB	2.22	0.69
1:G:129:LYS:HG2	1:G:133:ASN:OD1	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:129:LYS:HG2	1:H:133:ASN:OD1	1.92	0.69
1:I:130:GLU:OE1	1:I:140:ILE:HG23	1.93	0.69
1:I:157:LEU:HD21	1:I:212:ARG:HG2	1.73	0.69
1:I:237:LEU:O	1:I:245:GLN:HB2	1.92	0.69
1:L:36:VAL:HG22	1:L:37:GLY:H	1.57	0.69
1:A:249:ARG:NH2	1:A:356:ILE:HD13	2.07	0.69
1:C:111:GLN:HA	1:C:118:PHE:CD1	2.28	0.69
1:C:476:GLN:HB3	1:C:480:PHE:CE2	2.28	0.69
1:F:157:LEU:HD21	1:F:212:ARG:HG2	1.73	0.69
1:F:60:TYR:CE1	1:F:94:VAL:HG21	2.27	0.69
1:G:237:LEU:O	1:G:245:GLN:HB2	1.92	0.69
1:H:130:GLU:OE1	1:H:140:ILE:HG23	1.93	0.69
1:I:115:PRO:CB	1:I:414:LEU:HD22	2.23	0.69
1:K:140:ILE:HB	1:K:426:VAL:HG12	1.73	0.69
1:K:476:GLN:HB3	1:K:480:PHE:CE2	2.28	0.69
1:K:6:GLN:NE2	1:K:106:THR:H	1.91	0.69
1:L:6:GLN:NE2	1:L:106:THR:H	1.91	0.69
1:M:476:GLN:HB3	1:M:480:PHE:CE2	2.28	0.69
1:M:606:THR:HG22	1:M:609:GLU:HG3	1.73	0.69
1:C:130:GLU:OE1	1:C:140:ILE:HG23	1.93	0.69
1:D:175:ILE:HG21	1:D:528:THR:HG21	1.73	0.69
1:D:20:THR:HG22	1:D:21:ARG:N	2.08	0.69
1:E:130:GLU:OE1	1:E:140:ILE:HG23	1.93	0.69
1:E:301:LEU:HD12	1:E:304:ILE:HD12	1.74	0.69
1:G:130:GLU:OE1	1:G:140:ILE:HG23	1.93	0.69
1:I:476:GLN:HB3	1:I:480:PHE:CE2	2.28	0.69
1:J:111:GLN:HA	1:J:118:PHE:CD1	2.28	0.69
1:J:442:ILE:CG2	1:J:497:ILE:HB	2.22	0.69
1:L:283:VAL:HG12	1:L:289:LYS:HE3	1.75	0.69
1:C:249:ARG:NH2	1:C:356:ILE:HD13	2.07	0.69
1:C:606:THR:HG22	1:C:609:GLU:HG3	1.73	0.69
1:G:157:LEU:HD21	1:G:212:ARG:HG2	1.73	0.69
1:G:283:VAL:HG12	1:G:289:LYS:HE3	1.75	0.69
1:H:284:ASP:HB2	1:H:286:ASP:OD1	1.92	0.69
1:H:249:ARG:NH2	1:H:356:ILE:HD13	2.07	0.69
1:I:290:ILE:HG13	1:I:290:ILE:O	1.93	0.69
1:K:121:ALA:HA	1:K:124:ILE:HD12	1.74	0.69
1:K:284:ASP:HB2	1:K:286:ASP:OD1	1.92	0.69
1:L:284:ASP:HB2	1:L:286:ASP:OD1	1.92	0.69
1:L:60:TYR:CE1	1:L:94:VAL:HG21	2.28	0.69
1:M:20:THR:HG22	1:M:21:ARG:N	2.08	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:283:VAL:HG12	1:D:289:LYS:HE3	1.75	0.69
1:D:305:ILE:HG21	1:D:368:PHE:CZ	2.26	0.69
1:E:249:ARG:NH2	1:E:356:ILE:HD13	2.08	0.69
1:E:476:GLN:HB3	1:E:480:PHE:CE2	2.28	0.69
1:F:20:THR:HG22	1:F:21:ARG:N	2.08	0.69
1:G:59:LEU:HD22	1:G:88:PHE:CE1	2.28	0.69
1:I:284:ASP:HB2	1:I:286:ASP:OD1	1.92	0.69
1:J:129:LYS:HG2	1:J:133:ASN:OD1	1.92	0.69
1:M:115:PRO:CB	1:M:414:LEU:HD22	2.23	0.69
1:M:172:HIS:CG	1:M:532:SER:HB3	2.27	0.69
1:D:115:PRO:CB	1:D:414:LEU:HD22	2.23	0.69
1:D:111:GLN:HA	1:D:118:PHE:CD1	2.28	0.69
1:E:6:GLN:NE2	1:E:106:THR:H	1.90	0.69
1:E:308:SER:HB2	1:E:311:SER:H	1.57	0.69
1:G:115:PRO:CB	1:G:414:LEU:HD22	2.23	0.69
1:G:111:GLN:HA	1:G:118:PHE:CD1	2.28	0.69
1:G:305:ILE:HG21	1:G:368:PHE:CZ	2.26	0.69
1:H:290:ILE:HG13	1:H:290:ILE:O	1.93	0.69
1:H:43:THR:HG22	1:H:44:LEU:H	1.57	0.69
1:C:561:ASP:HB3	1:I:189:GLU:OE1	1.92	0.69
1:J:36:VAL:HG21	1:J:59:LEU:CD2	2.18	0.69
1:F:130:GLU:OE1	1:F:140:ILE:HG23	1.93	0.68
1:F:408:LYS:HB2	1:F:408:LYS:HZ2	1.58	0.68
1:K:7:ALA:HA	1:K:10:MET:HE3	1.76	0.68
1:K:20:THR:HG22	1:K:21:ARG:N	2.08	0.68
1:M:130:GLU:OE1	1:M:140:ILE:HG23	1.93	0.68
1:A:115:PRO:CB	1:A:414:LEU:HD22	2.23	0.68
1:C:237:LEU:O	1:C:245:GLN:HB2	1.92	0.68
1:D:157:LEU:HD21	1:D:212:ARG:HG2	1.73	0.68
1:D:60:TYR:CE1	1:D:94:VAL:HG21	2.28	0.68
1:E:36:VAL:HG22	1:E:37:GLY:H	1.57	0.68
1:K:442:ILE:CG2	1:K:497:ILE:HB	2.22	0.68
1:M:111:GLN:HA	1:M:118:PHE:CD1	2.28	0.68
1:F:115:PRO:CB	1:F:414:LEU:HD22	2.23	0.68
1:F:476:GLN:HB3	1:F:480:PHE:CE2	2.28	0.68
1:G:476:GLN:HB3	1:G:480:PHE:CE2	2.28	0.68
1:H:111:GLN:HA	1:H:118:PHE:CD1	2.28	0.68
1:H:283:VAL:HG12	1:H:289:LYS:HE3	1.75	0.68
1:J:115:PRO:CB	1:J:414:LEU:HD22	2.23	0.68
1:J:130:GLU:OE1	1:J:140:ILE:HG23	1.93	0.68
1:L:130:GLU:OE1	1:L:140:ILE:HG23	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:526:ASP:OD2	1:L:573:VAL:HG23	1.92	0.68
1:A:130:GLU:OE1	1:A:140:ILE:HG23	1.93	0.68
1:D:461:ALA:HB2	1:D:480:PHE:CE1	2.29	0.68
1:D:526:ASP:OD2	1:D:573:VAL:HG23	1.92	0.68
1:F:36:VAL:HG22	1:F:37:GLY:H	1.57	0.68
1:G:173:TRP:HE1	1:G:196:LEU:HD21	1.59	0.68
1:C:149:ASN:OD1	1:G:467:LEU:CD1	2.40	0.68
1:I:173:TRP:HE1	1:I:196:LEU:HD21	1.59	0.68
1:K:60:TYR:CE1	1:K:94:VAL:HG21	2.27	0.68
1:L:476:GLN:HB3	1:L:480:PHE:CE2	2.28	0.68
1:A:292:LEU:CD2	1:A:300:ILE:HD11	2.24	0.68
1:C:60:TYR:CE1	1:C:94:VAL:HG21	2.27	0.68
1:E:290:ILE:HG13	1:E:290:ILE:O	1.93	0.68
1:F:111:GLN:HA	1:F:118:PHE:CD1	2.28	0.68
1:F:39:LEU:HD23	1:F:84:ASN:CG	2.14	0.68
1:G:36:VAL:HG22	1:G:37:GLY:H	1.57	0.68
1:J:290:ILE:O	1:J:290:ILE:HG13	1.93	0.68
1:K:290:ILE:O	1:K:290:ILE:HG13	1.93	0.68
1:A:20:THR:HG22	1:A:21:ARG:N	2.08	0.68
1:D:130:GLU:OE1	1:D:140:ILE:HG23	1.93	0.68
1:D:249:ARG:NH2	1:D:356:ILE:HD13	2.07	0.68
1:E:237:LEU:O	1:E:245:GLN:HB2	1.92	0.68
1:E:39:LEU:HD23	1:E:84:ASN:CG	2.14	0.68
1:H:6:GLN:NE2	1:H:106:THR:H	1.91	0.68
1:M:237:LEU:O	1:M:245:GLN:HB2	1.92	0.68
1:M:292:LEU:CD2	1:M:300:ILE:HD11	2.24	0.68
1:M:461:ALA:HB2	1:M:480:PHE:CE1	2.29	0.68
1:A:395:ILE:HG22	1:A:440:TYR:CD1	2.29	0.68
1:C:115:PRO:CB	1:C:414:LEU:HD22	2.23	0.68
1:E:115:PRO:CB	1:E:414:LEU:HD22	2.23	0.68
1:F:606:THR:HG22	1:F:609:GLU:HG3	1.73	0.68
1:G:284:ASP:HB2	1:G:286:ASP:OD1	1.92	0.68
1:G:292:LEU:CD2	1:G:300:ILE:HD11	2.24	0.68
1:K:115:PRO:CB	1:K:414:LEU:HD22	2.23	0.68
1:K:249:ARG:NH2	1:K:356:ILE:HD13	2.08	0.68
1:L:237:LEU:O	1:L:245:GLN:HB2	1.92	0.68
1:A:396:ASN:HB2	1:A:439:THR:CG2	2.24	0.68
1:F:395:ILE:HG22	1:F:440:TYR:CD1	2.29	0.68
1:I:283:VAL:HG12	1:I:289:LYS:HE3	1.75	0.68
1:J:476:GLN:HB3	1:J:480:PHE:CE2	2.28	0.68
1:J:59:LEU:HD22	1:J:88:PHE:CE1	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:290:ILE:HG13	1:L:290:ILE:O	1.93	0.68
1:L:292:LEU:CD2	1:L:300:ILE:HD11	2.24	0.68
1:A:476:GLN:HB3	1:A:480:PHE:CE2	2.28	0.68
1:C:396:ASN:HB2	1:C:439:THR:CG2	2.24	0.68
1:E:173:TRP:HE1	1:E:196:LEU:HD21	1.59	0.68
1:E:395:ILE:HG22	1:E:440:TYR:CD1	2.29	0.68
1:J:396:ASN:HB2	1:J:439:THR:CG2	2.24	0.68
1:L:115:PRO:CB	1:L:414:LEU:HD22	2.23	0.68
1:L:395:ILE:HG22	1:L:440:TYR:CD1	2.29	0.68
1:D:395:ILE:HG22	1:D:440:TYR:CD1	2.29	0.68
1:F:292:LEU:CD2	1:F:300:ILE:HD11	2.24	0.68
1:H:476:GLN:HB3	1:H:480:PHE:CE2	2.28	0.68
1:M:59:LEU:HD22	1:M:88:PHE:CE1	2.28	0.68
1:H:395:ILE:HG22	1:H:440:TYR:CD1	2.29	0.67
1:H:551:PHE:O	1:H:620:ILE:HD13	1.94	0.67
1:I:270:ARG:HD3	1:I:363:PHE:HZ	1.59	0.67
1:J:461:ALA:HB2	1:J:480:PHE:CE1	2.29	0.67
1:D:290:ILE:O	1:D:290:ILE:HG13	1.93	0.67
1:F:6:GLN:NE2	1:F:106:THR:H	1.91	0.67
1:G:20:THR:HG22	1:G:21:ARG:N	2.08	0.67
1:I:396:ASN:HB2	1:I:439:THR:CG2	2.24	0.67
1:J:166:ILE:HD11	1:J:539:MET:HE2	1.75	0.67
1:L:461:ALA:HB2	1:L:480:PHE:CE1	2.29	0.67
1:C:172:HIS:CG	1:C:532:SER:HB3	2.30	0.67
1:D:396:ASN:HB2	1:D:439:THR:CG2	2.24	0.67
1:E:283:VAL:HG12	1:E:289:LYS:HE3	1.75	0.67
1:F:173:TRP:HE1	1:F:196:LEU:HD21	1.59	0.67
1:F:461:ALA:HB2	1:F:480:PHE:CE1	2.29	0.67
1:M:283:VAL:HG12	1:M:289:LYS:HE3	1.75	0.67
1:C:290:ILE:O	1:C:290:ILE:HG13	1.93	0.67
1:C:370:GLU:HA	1:C:373:LYS:HD3	1.77	0.67
1:C:6:GLN:NE2	1:C:106:THR:H	1.91	0.67
1:D:6:GLN:NE2	1:D:106:THR:H	1.91	0.67
1:E:393:VAL:CG2	1:E:442:ILE:HD13	2.24	0.67
1:E:551:PHE:O	1:E:620:ILE:HD13	1.95	0.67
1:F:551:PHE:O	1:F:620:ILE:HD13	1.95	0.67
1:I:292:LEU:CD2	1:I:300:ILE:HD11	2.24	0.67
1:J:283:VAL:HG12	1:J:289:LYS:HE3	1.75	0.67
1:J:292:LEU:CD2	1:J:300:ILE:HD11	2.24	0.67
1:M:551:PHE:O	1:M:620:ILE:HD13	1.95	0.67
1:A:606:THR:HG22	1:A:609:GLU:HG3	1.73	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:39:LEU:HD23	1:A:84:ASN:CG	2.14	0.67
1:C:461:ALA:HB2	1:C:480:PHE:CE1	2.29	0.67
1:D:173:TRP:HE1	1:D:196:LEU:HD21	1.59	0.67
1:D:551:PHE:O	1:D:620:ILE:HD13	1.94	0.67
1:D:69:PHE:CE2	1:D:73:ILE:HD11	2.30	0.67
1:E:398:LYS:HA	1:E:398:LYS:HE2	1.77	0.67
1:H:173:TRP:HE1	1:H:196:LEU:HD21	1.59	0.67
1:H:461:ALA:HB2	1:H:480:PHE:CE1	2.29	0.67
1:I:461:ALA:HB2	1:I:480:PHE:CE1	2.29	0.67
1:J:395:ILE:HG22	1:J:440:TYR:CD1	2.29	0.67
1:J:59:LEU:HB3	1:J:91:ALA:CB	2.14	0.67
1:K:396:ASN:HB2	1:K:439:THR:CG2	2.24	0.67
1:K:461:ALA:HB2	1:K:480:PHE:CE1	2.29	0.67
1:L:398:LYS:HE2	1:L:398:LYS:HA	1.77	0.67
1:L:39:LEU:HD23	1:L:84:ASN:CG	2.14	0.67
1:M:396:ASN:HB2	1:M:439:THR:CG2	2.24	0.67
1:A:175:ILE:HG21	1:A:528:THR:HG21	1.75	0.67
1:C:395:ILE:HG22	1:C:440:TYR:CD1	2.29	0.67
1:D:96:VAL:HG12	1:D:527:SER:HB3	1.77	0.67
1:E:96:VAL:HG12	1:E:527:SER:HB3	1.77	0.67
1:F:398:LYS:HA	1:F:398:LYS:HE2	1.77	0.67
1:H:253:TYR:CE2	1:I:253:TYR:CE1	2.82	0.67
1:J:253:TYR:OH	1:K:250:PRO:HG2	1.95	0.67
1:K:370:GLU:HA	1:K:373:LYS:HD3	1.77	0.67
1:M:173:TRP:HE1	1:M:196:LEU:HD21	1.58	0.67
1:M:370:GLU:HA	1:M:373:LYS:HD3	1.77	0.67
1:A:461:ALA:HB2	1:A:480:PHE:CE1	2.29	0.67
1:C:173:TRP:HE1	1:C:196:LEU:HD21	1.59	0.67
1:D:292:LEU:CD2	1:D:300:ILE:HD11	2.24	0.67
1:E:461:ALA:HB2	1:E:480:PHE:CE1	2.29	0.67
1:E:69:PHE:CE2	1:E:73:ILE:HD11	2.30	0.67
1:G:395:ILE:HG22	1:G:440:TYR:CD1	2.29	0.67
1:G:69:PHE:CE2	1:G:73:ILE:HD11	2.30	0.67
1:K:395:ILE:HG22	1:K:440:TYR:CD1	2.29	0.67
1:L:173:TRP:HE1	1:L:196:LEU:HD21	1.59	0.67
1:M:290:ILE:O	1:M:290:ILE:HG13	1.93	0.67
1:D:39:LEU:HD23	1:D:84:ASN:CG	2.14	0.67
1:G:461:ALA:HB2	1:G:480:PHE:CE1	2.29	0.67
1:H:19:LEU:O	1:H:81:GLN:HA	1.95	0.67
1:L:396:ASN:HB2	1:L:439:THR:CG2	2.24	0.67
1:A:290:ILE:HG13	1:A:290:ILE:O	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:292:LEU:CD2	1:C:300:ILE:HD11	2.24	0.67
1:D:395:ILE:CG1	1:D:401:ASN:HA	2.25	0.67
1:F:584:ARG:HG2	1:F:585:ASP:N	2.06	0.67
1:I:395:ILE:CG1	1:I:401:ASN:HA	2.25	0.67
1:I:551:PHE:O	1:I:620:ILE:HD13	1.95	0.67
1:L:235:PRO:CB	1:L:237:LEU:HD23	2.19	0.67
1:A:283:VAL:HG12	1:A:289:LYS:HE3	1.75	0.67
1:A:244:LEU:HD23	1:A:341:ASN:OD1	1.95	0.67
1:A:59:LEU:HD11	1:A:87:MET:HE3	1.75	0.67
1:H:292:LEU:CD2	1:H:300:ILE:HD11	2.24	0.67
1:H:396:ASN:HB2	1:H:439:THR:CG2	2.24	0.67
1:K:283:VAL:HG12	1:K:289:LYS:HE3	1.75	0.67
1:M:395:ILE:HG22	1:M:440:TYR:CD1	2.29	0.67
1:M:9:LEU:HD22	1:M:105:ILE:HD12	1.77	0.67
1:A:395:ILE:CG1	1:A:401:ASN:HA	2.25	0.66
1:F:396:ASN:HB2	1:F:439:THR:CG2	2.24	0.66
1:I:370:GLU:HA	1:I:373:LYS:HD3	1.77	0.66
1:I:49:HIS:CE1	1:I:51:ARG:HG2	2.30	0.66
1:J:338:PHE:HB3	1:J:340:GLU:HG3	1.77	0.66
1:J:69:PHE:CE2	1:J:73:ILE:HD11	2.30	0.66
1:K:49:HIS:CE1	1:K:51:ARG:HG2	2.30	0.66
1:K:69:PHE:CE2	1:K:73:ILE:HD11	2.30	0.66
1:L:20:THR:HG22	1:L:21:ARG:N	2.08	0.66
1:L:96:VAL:HG12	1:L:527:SER:HB3	1.77	0.66
1:M:49:HIS:CE1	1:M:51:ARG:HG2	2.30	0.66
1:M:69:PHE:CE2	1:M:73:ILE:HD11	2.30	0.66
1:A:499:ARG:HD2	1:A:503:ASP:HB2	1.77	0.66
1:C:96:VAL:HG12	1:C:527:SER:HB3	1.77	0.66
1:D:370:GLU:HA	1:D:373:LYS:HD3	1.77	0.66
1:G:396:ASN:HB2	1:G:439:THR:CG2	2.24	0.66
1:H:69:PHE:CE2	1:H:73:ILE:HD11	2.30	0.66
1:I:41:ARG:HG3	1:I:42:GLY:H	1.58	0.66
1:I:395:ILE:HG22	1:I:440:TYR:CD1	2.29	0.66
1:J:173:TRP:HE1	1:J:196:LEU:HD21	1.59	0.66
1:K:551:PHE:O	1:K:620:ILE:HD13	1.95	0.66
1:A:166:ILE:HD11	1:A:539:MET:HE2	1.75	0.66
1:A:398:LYS:HA	1:A:398:LYS:HE2	1.76	0.66
1:C:69:PHE:CE2	1:C:73:ILE:HD11	2.30	0.66
1:E:584:ARG:HD3	1:E:585:ASP:HB3	1.78	0.66
1:F:584:ARG:HD3	1:F:585:ASP:HB3	1.78	0.66
1:H:250:PRO:HB2	1:H:253:TYR:HE1	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:584:ARG:HG2	1:I:585:ASP:N	2.06	0.66
1:J:370:GLU:HA	1:J:373:LYS:HD3	1.77	0.66
1:J:551:PHE:O	1:J:620:ILE:HD13	1.95	0.66
1:L:551:PHE:O	1:L:620:ILE:HD13	1.95	0.66
1:M:109:PRO:HG2	1:M:112:GLU:OE1	1.96	0.66
1:M:499:ARG:HD2	1:M:503:ASP:HB2	1.77	0.66
1:M:541:ILE:HG23	1:M:542:PRO:HD2	1.78	0.66
1:C:551:PHE:O	1:C:620:ILE:HD13	1.95	0.66
1:G:395:ILE:CG1	1:G:401:ASN:HA	2.25	0.66
1:H:172:HIS:CG	1:H:532:SER:HB3	2.30	0.66
1:H:541:ILE:HG23	1:H:542:PRO:HD2	1.78	0.66
1:H:77:GLU:HA	1:H:80:ARG:HH21	1.61	0.66
1:I:398:LYS:HA	1:I:398:LYS:HE2	1.77	0.66
1:J:49:HIS:CE1	1:J:51:ARG:HG2	2.30	0.66
1:K:109:PRO:HG2	1:K:112:GLU:OE1	1.96	0.66
1:L:172:HIS:CG	1:L:532:SER:HB3	2.30	0.66
1:I:605:ARG:HH22	1:L:38:ILE:HG22	1.60	0.66
1:A:338:PHE:HB3	1:A:340:GLU:HG3	1.77	0.66
1:A:36:VAL:CG1	1:A:59:LEU:HD23	2.23	0.66
1:C:338:PHE:HB3	1:C:340:GLU:HG3	1.78	0.66
1:C:398:LYS:HE2	1:C:398:LYS:HA	1.77	0.66
1:C:499:ARG:HD2	1:C:503:ASP:HB2	1.77	0.66
1:D:137:GLN:HG3	1:D:424:GLN:HG3	1.78	0.66
1:G:398:LYS:HA	1:G:398:LYS:HE2	1.77	0.66
1:G:393:VAL:CG2	1:G:442:ILE:HD13	2.24	0.66
1:H:398:LYS:HE2	1:H:398:LYS:HA	1.77	0.66
1:H:97:LEU:HA	1:H:527:SER:HB3	1.77	0.66
1:J:109:PRO:HG2	1:J:112:GLU:OE1	1.96	0.66
1:J:395:ILE:CG1	1:J:401:ASN:HA	2.25	0.66
1:J:499:ARG:HD2	1:J:503:ASP:HB2	1.77	0.66
1:L:584:ARG:HD3	1:L:585:ASP:HB3	1.78	0.66
1:M:395:ILE:CG1	1:M:401:ASN:HA	2.25	0.66
1:D:398:LYS:HE2	1:D:398:LYS:HA	1.77	0.66
1:D:499:ARG:HD2	1:D:503:ASP:HB2	1.77	0.66
1:D:49:HIS:CE1	1:D:51:ARG:HG2	2.30	0.66
1:E:172:HIS:CG	1:E:532:SER:HB3	2.31	0.66
1:F:49:HIS:CE1	1:F:51:ARG:HG2	2.30	0.66
1:F:172:HIS:CG	1:F:532:SER:HB3	2.31	0.66
1:F:69:PHE:CE2	1:F:73:ILE:HD11	2.30	0.66
1:G:530:TYR:HD2	1:G:531:CYS:SG	2.19	0.66
1:G:551:PHE:O	1:G:620:ILE:HD13	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:584:ARG:HD3	1:H:585:ASP:HB3	1.78	0.66
1:I:584:ARG:HD3	1:I:585:ASP:HB3	1.78	0.66
1:K:499:ARG:HD2	1:K:503:ASP:HB2	1.77	0.66
1:K:172:HIS:CG	1:K:532:SER:HB3	2.31	0.66
1:L:541:ILE:HG23	1:L:542:PRO:HD2	1.78	0.66
1:L:69:PHE:CE2	1:L:73:ILE:HD11	2.30	0.66
1:E:396:ASN:HB2	1:E:439:THR:CG2	2.24	0.66
1:G:584:ARG:HG2	1:G:585:ASP:N	2.06	0.66
1:H:137:GLN:HG3	1:H:424:GLN:HG3	1.78	0.66
1:I:393:VAL:CG2	1:I:442:ILE:HD13	2.24	0.66
1:L:499:ARG:HD2	1:L:503:ASP:HB2	1.77	0.66
1:A:53:LEU:HB3	1:A:180:THR:HG21	1.77	0.66
1:A:173:TRP:HE1	1:A:196:LEU:HD21	1.58	0.66
1:A:49:HIS:CE1	1:A:51:ARG:HG2	2.30	0.66
1:A:551:PHE:O	1:A:620:ILE:HD13	1.95	0.66
1:A:526:ASP:OD2	1:A:573:VAL:HG23	1.95	0.66
1:C:541:ILE:HG23	1:C:542:PRO:HD2	1.78	0.66
1:E:110:ILE:HG13	1:E:111:GLN:N	2.11	0.66
1:F:395:ILE:CG1	1:F:401:ASN:HA	2.25	0.66
1:F:530:TYR:HD2	1:F:531:CYS:SG	2.19	0.66
1:H:49:HIS:CE1	1:H:51:ARG:HG2	2.30	0.66
1:I:541:ILE:HG23	1:I:542:PRO:HD2	1.78	0.66
1:J:110:ILE:HG13	1:J:111:GLN:N	2.11	0.66
1:J:137:GLN:HG3	1:J:424:GLN:HG3	1.78	0.66
1:K:96:VAL:HG12	1:K:527:SER:HB3	1.77	0.66
1:L:393:VAL:CG2	1:L:442:ILE:HD13	2.24	0.66
1:M:530:TYR:HD2	1:M:531:CYS:SG	2.19	0.66
1:M:584:ARG:HD3	1:M:585:ASP:HB3	1.78	0.66
1:A:36:VAL:CG2	1:A:59:LEU:CD2	2.58	0.66
1:D:541:ILE:HG23	1:D:542:PRO:HD2	1.78	0.66
1:E:49:HIS:CE1	1:E:51:ARG:HG2	2.30	0.66
1:I:244:LEU:HD23	1:I:341:ASN:OD1	1.95	0.66
1:I:69:PHE:CE2	1:I:73:ILE:HD11	2.30	0.66
1:K:398:LYS:HE2	1:K:398:LYS:HA	1.77	0.66
1:K:395:ILE:CG1	1:K:401:ASN:HA	2.25	0.66
1:L:370:GLU:HA	1:L:373:LYS:HD3	1.77	0.66
1:L:395:ILE:CG1	1:L:401:ASN:HA	2.25	0.66
1:M:137:GLN:HG3	1:M:424:GLN:HG3	1.78	0.66
1:A:137:GLN:HG3	1:A:424:GLN:HG3	1.78	0.66
1:C:137:GLN:HG3	1:C:424:GLN:HG3	1.78	0.66
1:C:49:HIS:CE1	1:C:51:ARG:HG2	2.30	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:530:TYR:HD2	1:C:531:CYS:SG	2.19	0.66
1:E:109:PRO:HG2	1:E:112:GLU:OE1	1.96	0.66
1:D:253:TYR:CG	1:E:253:TYR:CE1	2.84	0.66
1:G:370:GLU:HA	1:G:373:LYS:HD3	1.77	0.66
1:H:235:PRO:CB	1:H:237:LEU:HD23	2.19	0.66
1:J:398:LYS:HA	1:J:398:LYS:HE2	1.77	0.66
1:D:109:PRO:HG2	1:D:112:GLU:OE1	1.96	0.65
1:D:172:HIS:CG	1:D:532:SER:HB3	2.30	0.65
1:E:20:THR:HG22	1:E:21:ARG:N	2.08	0.65
1:E:292:LEU:HA	1:E:300:ILE:CD1	2.26	0.65
1:E:530:TYR:HD2	1:E:531:CYS:SG	2.19	0.65
1:F:370:GLU:HA	1:F:373:LYS:HD3	1.77	0.65
1:G:403:ILE:CG2	1:G:622:ILE:HG12	2.27	0.65
1:I:121:ALA:HA	1:I:124:ILE:HD12	1.78	0.65
1:J:584:ARG:HG2	1:J:585:ASP:N	2.06	0.65
1:K:584:ARG:HD3	1:K:585:ASP:HB3	1.78	0.65
1:L:49:HIS:CE1	1:L:51:ARG:HG2	2.30	0.65
1:L:530:TYR:HD2	1:L:531:CYS:SG	2.19	0.65
1:L:99:ARG:NH1	1:L:102:CYS:SG	2.69	0.65
1:A:99:ARG:NH1	1:A:102:CYS:SG	2.69	0.65
1:C:395:ILE:CG1	1:C:401:ASN:HA	2.25	0.65
1:D:584:ARG:HD3	1:D:585:ASP:HB3	1.78	0.65
1:E:370:GLU:HA	1:E:373:LYS:HD3	1.77	0.65
1:F:60:TYR:CD1	1:F:94:VAL:HB	2.31	0.65
1:H:370:GLU:HA	1:H:373:LYS:HD3	1.77	0.65
1:I:6:GLN:NE2	1:I:105:ILE:HA	2.12	0.65
1:L:38:ILE:HG13	1:L:39:LEU:N	2.12	0.65
1:A:403:ILE:CG2	1:A:622:ILE:HG12	2.27	0.65
1:C:393:VAL:CG2	1:C:442:ILE:HD13	2.24	0.65
1:C:99:ARG:NH1	1:C:102:CYS:SG	2.69	0.65
1:E:235:PRO:CB	1:E:237:LEU:HD23	2.19	0.65
1:E:584:ARG:HG2	1:E:585:ASP:N	2.06	0.65
1:E:403:ILE:CG2	1:E:622:ILE:HG12	2.27	0.65
1:F:403:ILE:CG2	1:F:622:ILE:HG12	2.27	0.65
1:F:405:THR:OG1	1:F:433:LEU:HD11	1.97	0.65
1:G:110:ILE:HG13	1:G:111:GLN:N	2.11	0.65
1:G:258:LEU:CD1	1:G:330:ASN:HD21	2.10	0.65
1:H:395:ILE:CG1	1:H:401:ASN:HA	2.25	0.65
1:H:60:TYR:CD1	1:H:94:VAL:HB	2.31	0.65
1:I:499:ARG:HD2	1:I:503:ASP:HB2	1.77	0.65
1:L:403:ILE:CG2	1:L:622:ILE:HG12	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:110:ILE:HG13	1:M:111:GLN:N	2.11	0.65
1:A:109:PRO:HG2	1:A:112:GLU:OE1	1.96	0.65
1:A:530:TYR:HD2	1:A:531:CYS:SG	2.19	0.65
1:E:99:ARG:NH1	1:E:102:CYS:SG	2.69	0.65
1:G:9:LEU:HD22	1:G:105:ILE:HD12	1.78	0.65
1:H:393:VAL:CG2	1:H:442:ILE:HD13	2.24	0.65
1:H:99:ARG:NH1	1:H:102:CYS:SG	2.69	0.65
1:I:166:ILE:HG22	1:I:352:LEU:HD12	1.78	0.65
1:J:405:THR:OG1	1:J:433:LEU:HD11	1.96	0.65
1:J:403:ILE:CG2	1:J:622:ILE:HG12	2.27	0.65
1:K:60:TYR:CD1	1:K:94:VAL:HB	2.31	0.65
1:A:337:ARG:HB2	1:C:151:LEU:HB2	1.78	0.65
1:A:541:ILE:HG23	1:A:542:PRO:HD2	1.78	0.65
1:D:60:TYR:CD1	1:D:94:VAL:HB	2.31	0.65
1:D:403:ILE:CG2	1:D:622:ILE:HG12	2.27	0.65
1:D:99:ARG:NH1	1:D:102:CYS:SG	2.69	0.65
1:E:338:PHE:HB3	1:E:340:GLU:HG3	1.77	0.65
1:F:109:PRO:HG2	1:F:112:GLU:OE1	1.96	0.65
1:G:405:THR:OG1	1:G:433:LEU:HD11	1.96	0.65
1:G:584:ARG:HD3	1:G:585:ASP:HB3	1.78	0.65
1:H:405:THR:OG1	1:H:433:LEU:HD11	1.97	0.65
1:H:584:ARG:HG2	1:H:585:ASP:N	2.06	0.65
1:J:530:TYR:HD2	1:J:531:CYS:SG	2.19	0.65
1:K:403:ILE:CG2	1:K:622:ILE:HG12	2.27	0.65
1:M:407:ILE:HD13	1:M:408:LYS:N	2.12	0.65
1:A:96:VAL:HG12	1:A:527:SER:HB3	1.77	0.65
1:C:258:LEU:CD1	1:C:330:ASN:HD21	2.10	0.65
1:C:403:ILE:CG2	1:C:622:ILE:HG12	2.26	0.65
1:C:405:THR:OG1	1:C:433:LEU:HD11	1.97	0.65
1:D:338:PHE:HB3	1:D:340:GLU:HG3	1.77	0.65
1:E:395:ILE:CG1	1:E:401:ASN:HA	2.25	0.65
1:E:405:THR:OG1	1:E:433:LEU:HD11	1.97	0.65
1:E:60:TYR:CD1	1:E:94:VAL:HB	2.31	0.65
1:F:499:ARG:HD2	1:F:503:ASP:HB2	1.77	0.65
1:F:99:ARG:NH1	1:F:102:CYS:SG	2.69	0.65
1:G:49:HIS:CE1	1:G:51:ARG:HG2	2.30	0.65
1:J:584:ARG:HD3	1:J:585:ASP:HB3	1.78	0.65
1:L:36:VAL:HG22	1:L:37:GLY:N	2.12	0.65
1:A:110:ILE:HG13	1:A:111:GLN:N	2.11	0.65
1:E:258:LEU:CD1	1:E:330:ASN:HD21	2.10	0.65
1:E:19:LEU:HD22	1:E:80:ARG:CD	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:166:ILE:HG22	1:F:352:LEU:HD12	1.78	0.65
1:G:541:ILE:HG23	1:G:542:PRO:HD2	1.78	0.65
1:I:405:THR:OG1	1:I:433:LEU:HD11	1.97	0.65
1:K:99:ARG:NH1	1:K:102:CYS:SG	2.69	0.65
1:M:398:LYS:HA	1:M:398:LYS:HE2	1.77	0.65
1:C:109:PRO:HG2	1:C:112:GLU:OE1	1.96	0.65
1:C:584:ARG:HD3	1:C:585:ASP:HB2	1.78	0.65
1:C:60:TYR:CD1	1:C:94:VAL:HB	2.31	0.65
1:D:110:ILE:HG13	1:D:111:GLN:N	2.11	0.65
1:D:38:ILE:HG13	1:D:39:LEU:N	2.12	0.65
1:F:36:VAL:HG22	1:F:37:GLY:N	2.12	0.65
1:I:338:PHE:HB3	1:I:340:GLU:HG3	1.77	0.65
1:I:60:TYR:CD1	1:I:94:VAL:HB	2.31	0.65
1:L:109:PRO:HG2	1:L:112:GLU:OE1	1.96	0.65
1:L:110:ILE:HG13	1:L:111:GLN:N	2.11	0.65
1:L:60:TYR:CD1	1:L:94:VAL:HB	2.31	0.65
1:A:370:GLU:HA	1:A:373:LYS:HD3	1.77	0.65
1:D:282:ILE:HG12	1:D:290:ILE:CG1	2.27	0.65
1:D:530:TYR:HD2	1:D:531:CYS:SG	2.19	0.65
1:E:282:ILE:HG12	1:E:290:ILE:CG1	2.27	0.65
1:G:166:ILE:HG22	1:G:352:LEU:HD12	1.78	0.65
1:G:407:ILE:HD13	1:G:408:LYS:N	2.12	0.65
1:H:403:ILE:CG2	1:H:622:ILE:HG12	2.27	0.65
1:I:407:ILE:HD13	1:I:408:LYS:N	2.12	0.65
1:L:166:ILE:HG22	1:L:352:LEU:HD12	1.79	0.65
1:L:137:GLN:HG3	1:L:424:GLN:HG3	1.78	0.65
1:M:405:THR:OG1	1:M:433:LEU:HD11	1.97	0.65
1:M:584:ARG:HG2	1:M:585:ASP:N	2.06	0.65
1:A:605:ARG:NH2	1:E:38:ILE:CG2	2.60	0.65
1:I:103:LYS:HD2	1:I:528:THR:HG23	1.79	0.65
1:I:103:LYS:HD3	1:I:526:ASP:HB2	1.79	0.65
1:J:38:ILE:HG13	1:J:39:LEU:N	2.12	0.65
1:K:166:ILE:HG22	1:K:352:LEU:HD12	1.79	0.65
1:K:321:HIS:HD2	1:K:364:ILE:CD1	2.10	0.65
1:K:467:LEU:HD12	1:L:151:LEU:HA	1.79	0.65
1:M:321:HIS:HD2	1:M:364:ILE:CD1	2.10	0.65
1:A:111:GLN:CG	1:A:164:ILE:HD11	2.28	0.64
1:A:361:HIS:HA	1:A:364:ILE:HG12	1.80	0.64
1:E:541:ILE:HG23	1:E:542:PRO:HD2	1.77	0.64
1:F:110:ILE:HG13	1:F:111:GLN:N	2.11	0.64
1:G:235:PRO:CB	1:G:237:LEU:HD23	2.19	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:282:ILE:HG12	1:G:290:ILE:CG1	2.28	0.64
1:G:38:ILE:HG13	1:G:39:LEU:N	2.12	0.64
1:G:137:GLN:HG3	1:G:424:GLN:HG3	1.78	0.64
1:H:109:PRO:HG2	1:H:112:GLU:OE1	1.96	0.64
1:H:321:HIS:HD2	1:H:364:ILE:CD1	2.10	0.64
1:I:321:HIS:HD2	1:I:364:ILE:CD1	2.10	0.64
1:J:166:ILE:HG22	1:J:352:LEU:HD12	1.78	0.64
1:K:130:GLU:HA	1:K:133:ASN:HB2	1.79	0.64
1:K:530:TYR:HD2	1:K:531:CYS:SG	2.19	0.64
1:A:321:HIS:HD2	1:A:364:ILE:CD1	2.10	0.64
1:A:584:ARG:HD3	1:A:585:ASP:HB3	1.78	0.64
1:D:321:HIS:HD2	1:D:364:ILE:CD1	2.10	0.64
1:D:166:ILE:HG22	1:D:352:LEU:HD12	1.79	0.64
1:D:36:VAL:HG22	1:D:37:GLY:N	2.12	0.64
1:E:137:GLN:HG3	1:E:424:GLN:HG3	1.78	0.64
1:E:499:ARG:HD2	1:E:503:ASP:HB2	1.77	0.64
1:F:137:GLN:HG3	1:F:424:GLN:HG3	1.78	0.64
1:H:105:ILE:O	1:H:527:SER:HA	1.96	0.64
1:D:405:THR:OG1	1:D:433:LEU:HD11	1.97	0.64
1:C:605:ARG:HH22	1:F:38:ILE:HG22	1.62	0.64
1:G:109:PRO:HG2	1:G:112:GLU:OE1	1.96	0.64
1:I:110:ILE:HG13	1:I:111:GLN:N	2.11	0.64
1:J:282:ILE:HG12	1:J:290:ILE:CG1	2.28	0.64
1:J:541:ILE:HG23	1:J:542:PRO:HD2	1.78	0.64
1:K:110:ILE:HG13	1:K:111:GLN:N	2.11	0.64
1:K:258:LEU:CD1	1:K:330:ASN:HD21	2.10	0.64
1:K:407:ILE:HD13	1:K:408:LYS:N	2.12	0.64
1:C:321:HIS:HD2	1:C:364:ILE:CD1	2.10	0.64
1:E:321:HIS:HD2	1:E:364:ILE:CD1	2.10	0.64
1:G:36:VAL:HG22	1:G:37:GLY:N	2.12	0.64
1:G:499:ARG:HD2	1:G:503:ASP:HB2	1.77	0.64
1:H:499:ARG:HD2	1:H:503:ASP:HB2	1.77	0.64
1:I:361:HIS:HA	1:I:364:ILE:HG12	1.79	0.64
1:I:137:GLN:HG3	1:I:424:GLN:HG3	1.78	0.64
1:K:405:THR:OG1	1:K:433:LEU:HD11	1.97	0.64
1:L:405:THR:OG1	1:L:433:LEU:HD11	1.97	0.64
1:M:393:VAL:CG2	1:M:442:ILE:HD13	2.24	0.64
1:C:166:ILE:HG22	1:C:352:LEU:HD12	1.79	0.64
1:E:166:ILE:HG22	1:E:352:LEU:HD12	1.78	0.64
1:G:361:HIS:HA	1:G:364:ILE:HG12	1.79	0.64
1:H:111:GLN:CG	1:H:164:ILE:HD11	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:282:ILE:HG12	1:H:290:ILE:CG1	2.28	0.64
1:I:282:ILE:HG12	1:I:290:ILE:CG1	2.27	0.64
1:L:111:GLN:CG	1:L:164:ILE:HD11	2.28	0.64
1:M:292:LEU:HD22	1:M:300:ILE:HD11	1.80	0.64
1:M:403:ILE:CG2	1:M:622:ILE:HG12	2.27	0.64
1:C:110:ILE:HG13	1:C:111:GLN:N	2.11	0.64
1:C:407:ILE:HD13	1:C:408:LYS:N	2.12	0.64
1:E:369:GLN:HG3	1:E:478:ARG:HH21	1.63	0.64
1:F:407:ILE:HD13	1:F:408:LYS:N	2.12	0.64
1:H:361:HIS:HA	1:H:364:ILE:HG12	1.80	0.64
1:K:282:ILE:HG12	1:K:290:ILE:CG1	2.27	0.64
1:K:541:ILE:HG23	1:K:542:PRO:HD2	1.78	0.64
1:L:7:ALA:HA	1:L:10:MET:HE2	1.78	0.64
1:F:258:LEU:CD1	1:F:330:ASN:HD21	2.10	0.64
1:H:110:ILE:HG13	1:H:111:GLN:N	2.11	0.64
1:I:403:ILE:CG2	1:I:622:ILE:HG12	2.27	0.64
1:M:282:ILE:HG12	1:M:290:ILE:CG1	2.28	0.64
1:A:250:PRO:HB2	1:C:253:TYR:OH	1.97	0.64
1:A:407:ILE:HD13	1:A:408:LYS:N	2.12	0.64
1:C:122:GLU:O	1:C:126:ARG:HG3	1.98	0.64
1:E:36:VAL:HG22	1:E:37:GLY:N	2.12	0.64
1:G:111:GLN:CG	1:G:164:ILE:HD11	2.28	0.64
1:H:166:ILE:HG22	1:H:352:LEU:HD12	1.78	0.64
1:J:292:LEU:HD22	1:J:300:ILE:HD11	1.80	0.64
1:J:258:LEU:CD1	1:J:330:ASN:HD21	2.10	0.64
1:J:361:HIS:HA	1:J:364:ILE:HG12	1.80	0.64
1:L:167:ASN:HB3	1:L:349:SER:O	1.98	0.64
1:M:111:GLN:CG	1:M:164:ILE:HD11	2.28	0.64
1:A:38:ILE:HG13	1:A:39:LEU:N	2.12	0.64
1:F:541:ILE:HG23	1:F:542:PRO:HD2	1.78	0.64
1:H:167:ASN:HB3	1:H:349:SER:O	1.98	0.64
1:H:258:LEU:CD1	1:H:330:ASN:HD21	2.10	0.64
1:H:292:LEU:HD22	1:H:300:ILE:HD11	1.80	0.64
1:J:369:GLN:HG3	1:J:478:ARG:HH21	1.63	0.64
1:L:282:ILE:HG12	1:L:290:ILE:CG1	2.28	0.64
1:L:292:LEU:HD22	1:L:300:ILE:HD11	1.80	0.64
1:L:258:LEU:CD1	1:L:330:ASN:HD21	2.10	0.64
1:A:122:GLU:O	1:A:126:ARG:HG3	1.98	0.64
1:A:258:LEU:CD1	1:A:330:ASN:HD21	2.10	0.64
1:C:292:LEU:HD22	1:C:300:ILE:HD11	1.80	0.64
1:D:111:GLN:CG	1:D:164:ILE:HD11	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:292:LEU:HD22	1:D:300:ILE:HD11	1.80	0.64
1:D:19:LEU:HD22	1:D:80:ARG:CD	2.27	0.64
1:E:407:ILE:HD13	1:E:408:LYS:N	2.12	0.64
1:H:407:ILE:HD13	1:H:408:LYS:N	2.12	0.64
1:I:167:ASN:HB3	1:I:349:SER:O	1.98	0.64
1:I:258:LEU:CD1	1:I:330:ASN:HD21	2.10	0.64
1:L:407:ILE:HD13	1:L:408:LYS:N	2.12	0.64
1:M:166:ILE:HG22	1:M:352:LEU:HD12	1.78	0.64
1:A:166:ILE:HG22	1:A:352:LEU:HD12	1.79	0.63
1:E:77:GLU:HA	1:E:80:ARG:HH21	1.64	0.63
1:F:167:ASN:HB3	1:F:349:SER:O	1.98	0.63
1:F:282:ILE:HG12	1:F:290:ILE:CG1	2.27	0.63
1:F:31:GLU:O	1:F:34:LYS:HG2	1.99	0.63
1:G:369:GLN:HG3	1:G:478:ARG:HH21	1.63	0.63
1:H:122:GLU:O	1:H:126:ARG:HG3	1.98	0.63
1:J:36:VAL:HG22	1:J:37:GLY:N	2.12	0.63
1:K:505:SER:O	1:K:577:ALA:HA	1.98	0.63
1:K:584:ARG:HG2	1:K:585:ASP:N	2.06	0.63
1:M:258:LEU:CD1	1:M:330:ASN:HD21	2.10	0.63
1:A:31:GLU:O	1:A:34:LYS:HG2	1.98	0.63
1:A:467:LEU:HD23	1:A:470:LYS:HE3	1.80	0.63
1:C:167:ASN:HB3	1:C:349:SER:O	1.98	0.63
1:C:240:LEU:HD22	1:C:418:ILE:HG22	1.80	0.63
1:D:407:ILE:HD13	1:D:408:LYS:N	2.12	0.63
1:E:173:TRP:CZ2	1:E:196:LEU:HD23	2.34	0.63
1:E:38:ILE:HG13	1:E:39:LEU:N	2.12	0.63
1:G:321:HIS:HD2	1:G:364:ILE:CD1	2.10	0.63
1:A:433:LEU:O	1:A:538:HIS:HB2	1.99	0.63
1:F:292:LEU:HD22	1:F:300:ILE:HD11	1.80	0.63
1:G:121:ALA:HA	1:G:124:ILE:HD12	1.80	0.63
1:G:173:TRP:CZ2	1:G:196:LEU:HD23	2.34	0.63
1:H:369:GLN:HG3	1:H:478:ARG:HH21	1.63	0.63
1:K:167:ASN:HB3	1:K:349:SER:O	1.98	0.63
1:K:369:GLN:HG3	1:K:478:ARG:HH21	1.63	0.63
1:K:433:LEU:O	1:K:538:HIS:HB2	1.99	0.63
1:A:172:HIS:CG	1:A:532:SER:HB3	2.32	0.63
1:A:173:TRP:CZ2	1:A:196:LEU:HD23	2.34	0.63
1:A:369:GLN:HG3	1:A:478:ARG:HH21	1.63	0.63
1:A:36:VAL:HG22	1:A:37:GLY:N	2.12	0.63
1:C:173:TRP:CZ2	1:C:196:LEU:HD23	2.34	0.63
1:C:267:VAL:HG22	1:C:270:ARG:HH21	1.64	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:361:HIS:HA	1:C:364:ILE:HG12	1.80	0.63
1:C:77:GLU:HA	1:C:80:ARG:HH21	1.64	0.63
1:D:235:PRO:CB	1:D:237:LEU:HD23	2.19	0.63
1:D:393:VAL:CG2	1:D:442:ILE:HD13	2.24	0.63
1:D:77:GLU:HA	1:D:80:ARG:HH21	1.64	0.63
1:E:505:SER:O	1:E:577:ALA:HA	1.98	0.63
1:G:505:SER:O	1:G:577:ALA:HA	1.98	0.63
1:I:292:LEU:HD22	1:I:300:ILE:HD11	1.80	0.63
1:J:321:HIS:HD2	1:J:364:ILE:CD1	2.10	0.63
1:J:407:ILE:HD13	1:J:408:LYS:N	2.12	0.63
1:J:505:SER:O	1:J:577:ALA:HA	1.98	0.63
1:K:361:HIS:HA	1:K:364:ILE:HG12	1.80	0.63
1:M:369:GLN:HG3	1:M:478:ARG:HH21	1.63	0.63
1:A:405:THR:OG1	1:A:433:LEU:HD11	1.97	0.63
1:D:408:LYS:HB2	1:D:408:LYS:HZ2	1.63	0.63
1:F:77:GLU:HA	1:F:80:ARG:HH21	1.64	0.63
1:I:505:SER:O	1:I:577:ALA:HA	1.98	0.63
1:I:433:LEU:O	1:I:538:HIS:HB2	1.99	0.63
1:J:9:LEU:HD22	1:J:105:ILE:HD12	1.80	0.63
1:M:361:HIS:HA	1:M:364:ILE:HG12	1.80	0.63
1:M:433:LEU:O	1:M:538:HIS:HB2	1.99	0.63
1:A:282:ILE:HG12	1:A:290:ILE:CG1	2.27	0.63
1:D:505:SER:O	1:D:577:ALA:HA	1.98	0.63
1:D:584:ARG:HG2	1:D:585:ASP:N	2.06	0.63
1:F:321:HIS:HD2	1:F:364:ILE:CD1	2.10	0.63
1:F:38:ILE:HG13	1:F:39:LEU:N	2.12	0.63
1:F:433:LEU:O	1:F:538:HIS:HB2	1.99	0.63
1:J:173:TRP:CZ2	1:J:196:LEU:HD23	2.34	0.63
1:J:167:ASN:HB3	1:J:349:SER:O	1.98	0.63
1:A:69:PHE:HE1	1:A:102:CYS:SG	2.22	0.63
1:D:361:HIS:HA	1:D:364:ILE:HG12	1.80	0.63
1:E:31:GLU:O	1:E:34:LYS:HG2	1.98	0.63
1:F:19:LEU:HD22	1:F:80:ARG:CD	2.27	0.63
1:F:361:HIS:HA	1:F:364:ILE:HG12	1.80	0.63
1:G:122:GLU:O	1:G:126:ARG:HG3	1.98	0.63
1:G:540:LEU:C	1:G:541:ILE:HD12	2.19	0.63
1:H:505:SER:O	1:H:577:ALA:HA	1.98	0.63
1:K:31:GLU:O	1:K:34:LYS:HG2	1.99	0.63
1:K:36:VAL:HG21	1:K:59:LEU:HD21	1.80	0.63
1:L:463:LYS:HE2	1:L:469:ASN:OD1	1.99	0.63
1:A:292:LEU:HD22	1:A:300:ILE:HD11	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:97:LEU:HA	1:A:527:SER:CB	2.29	0.63
1:D:258:LEU:CD1	1:D:330:ASN:HD21	2.10	0.63
1:D:97:LEU:HA	1:D:527:SER:CB	2.29	0.63
1:E:361:HIS:HA	1:E:364:ILE:HG12	1.80	0.63
1:E:540:LEU:C	1:E:541:ILE:HD12	2.19	0.63
1:F:111:GLN:CG	1:F:164:ILE:HD11	2.28	0.63
1:G:167:ASN:HB3	1:G:349:SER:O	1.98	0.63
1:J:433:LEU:O	1:J:538:HIS:HB2	1.99	0.63
1:J:540:LEU:C	1:J:541:ILE:HD12	2.19	0.63
1:L:321:HIS:HD2	1:L:364:ILE:CD1	2.10	0.63
1:M:31:GLU:O	1:M:34:LYS:HG2	1.98	0.63
1:A:505:SER:O	1:A:577:ALA:HA	1.98	0.63
1:A:19:LEU:HD22	1:A:80:ARG:CD	2.27	0.63
1:C:19:LEU:HD22	1:C:80:ARG:CD	2.27	0.63
1:D:31:GLU:O	1:D:34:LYS:HG2	1.98	0.63
1:D:453:HIS:ND1	1:D:487:PHE:HZ	1.97	0.63
1:E:453:HIS:ND1	1:E:487:PHE:HZ	1.97	0.63
1:G:292:LEU:HD22	1:G:300:ILE:HD11	1.80	0.63
1:I:111:GLN:CG	1:I:164:ILE:HD11	2.28	0.63
1:I:369:GLN:HG3	1:I:478:ARG:HH21	1.63	0.63
1:J:103:LYS:HD2	1:J:584:ARG:NH2	2.14	0.63
1:L:413:GLU:HA	1:L:427:LYS:HD3	1.81	0.63
1:L:540:LEU:C	1:L:541:ILE:HD12	2.19	0.63
1:L:77:GLU:HA	1:L:80:ARG:HH21	1.64	0.63
1:C:433:LEU:O	1:C:538:HIS:HB2	1.99	0.62
1:D:167:ASN:HB3	1:D:349:SER:O	1.98	0.62
1:F:540:LEU:C	1:F:541:ILE:HD12	2.19	0.62
1:G:410:SER:HB3	1:G:430:TYR:CE1	2.34	0.62
1:H:410:SER:HB3	1:H:430:TYR:CE1	2.34	0.62
1:H:540:LEU:C	1:H:541:ILE:HD12	2.20	0.62
1:I:24:LEU:HD11	1:I:78:GLN:HE21	1.64	0.62
1:J:453:HIS:ND1	1:J:487:PHE:HZ	1.97	0.62
1:L:361:HIS:HA	1:L:364:ILE:HG12	1.80	0.62
1:L:369:GLN:HG3	1:L:478:ARG:HH21	1.63	0.62
1:L:433:LEU:O	1:L:538:HIS:HB2	1.99	0.62
1:D:106:THR:HG22	1:D:107:VAL:N	2.14	0.62
1:D:369:GLN:HG3	1:D:478:ARG:HH21	1.63	0.62
1:D:433:LEU:O	1:D:538:HIS:HB2	1.99	0.62
1:E:106:THR:HG22	1:E:107:VAL:N	2.14	0.62
1:E:192:ARG:HH21	1:E:594:MET:CE	2.13	0.62
1:E:410:SER:HB3	1:E:430:TYR:CE1	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:268:ARG:HH12	1:F:274:LEU:HD12	1.64	0.62
1:G:413:GLU:HA	1:G:427:LYS:HD3	1.81	0.62
1:H:173:TRP:CZ2	1:H:196:LEU:HD23	2.34	0.62
1:H:513:THR:CG2	1:H:516:GLN:H	2.12	0.62
1:I:413:GLU:HA	1:I:427:LYS:HD3	1.82	0.62
1:K:111:GLN:CG	1:K:164:ILE:HD11	2.28	0.62
1:K:19:LEU:HD22	1:K:80:ARG:CD	2.27	0.62
1:K:513:THR:CG2	1:K:516:GLN:H	2.12	0.62
1:L:173:TRP:CZ2	1:L:196:LEU:HD23	2.34	0.62
1:L:31:GLU:O	1:L:34:LYS:HG2	1.98	0.62
1:L:453:HIS:ND1	1:L:487:PHE:HZ	1.97	0.62
1:C:369:GLN:HG3	1:C:478:ARG:HH21	1.63	0.62
1:C:418:ILE:H	1:C:418:ILE:HD13	1.65	0.62
1:D:413:GLU:HA	1:D:427:LYS:HD3	1.81	0.62
1:F:173:TRP:CZ2	1:F:196:LEU:HD23	2.34	0.62
1:G:31:GLU:O	1:G:34:LYS:HG2	1.99	0.62
1:H:383:LEU:HD11	1:H:610:PHE:CZ	2.35	0.62
1:I:453:HIS:ND1	1:I:487:PHE:HZ	1.97	0.62
1:I:540:LEU:C	1:I:541:ILE:HD12	2.19	0.62
1:J:290:ILE:HD13	1:J:312:LYS:HD3	1.81	0.62
1:K:418:ILE:H	1:K:418:ILE:HD13	1.65	0.62
1:K:453:HIS:ND1	1:K:487:PHE:HZ	1.97	0.62
1:K:77:GLU:HA	1:K:80:ARG:HH21	1.64	0.62
1:L:505:SER:O	1:L:577:ALA:HA	1.98	0.62
1:L:19:LEU:HD22	1:L:80:ARG:CD	2.27	0.62
1:M:77:GLU:HA	1:M:80:ARG:NH2	2.14	0.62
1:A:36:VAL:HG21	1:A:59:LEU:HG	1.77	0.62
1:A:540:LEU:C	1:A:541:ILE:HD12	2.19	0.62
1:A:192:ARG:HH21	1:A:594:MET:CE	2.13	0.62
1:F:453:HIS:ND1	1:F:487:PHE:HZ	1.97	0.62
1:F:505:SER:O	1:F:577:ALA:HA	1.98	0.62
1:G:383:LEU:HD11	1:G:610:PHE:CZ	2.35	0.62
1:H:106:THR:HG22	1:H:107:VAL:N	2.15	0.62
1:H:408:LYS:HZ2	1:H:408:LYS:HB2	1.63	0.62
1:H:53:LEU:HB3	1:H:180:THR:CG2	2.30	0.62
1:J:31:GLU:O	1:J:34:LYS:HG2	1.98	0.62
1:K:410:SER:HB3	1:K:430:TYR:CE1	2.34	0.62
1:K:540:LEU:C	1:K:541:ILE:HD12	2.19	0.62
1:M:235:PRO:CB	1:M:237:LEU:HD23	2.19	0.62
1:M:167:ASN:HB3	1:M:349:SER:O	1.98	0.62
1:M:408:LYS:HB2	1:M:408:LYS:HZ2	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:167:ASN:HB3	1:A:349:SER:O	1.98	0.62
1:C:110:ILE:HA	1:C:113:VAL:HG22	1.82	0.62
1:C:540:LEU:C	1:C:541:ILE:HD12	2.19	0.62
1:D:53:LEU:HB3	1:D:180:THR:CG2	2.30	0.62
1:D:418:ILE:HD13	1:D:418:ILE:H	1.64	0.62
1:E:167:ASN:HB3	1:E:349:SER:O	1.98	0.62
1:F:290:ILE:HD13	1:F:312:LYS:HD3	1.82	0.62
1:F:410:SER:HB3	1:F:430:TYR:CE1	2.34	0.62
1:F:418:ILE:HD13	1:F:418:ILE:H	1.65	0.62
1:F:192:ARG:HH21	1:F:594:MET:CE	2.13	0.62
1:G:192:ARG:HH21	1:G:594:MET:CE	2.12	0.62
1:I:407:ILE:HD11	1:I:431:HIS:CG	2.35	0.62
1:K:411:LEU:CD2	1:K:429:LYS:HB2	2.30	0.62
1:K:53:LEU:HB3	1:K:180:THR:CG2	2.30	0.62
1:L:106:THR:HG22	1:L:107:VAL:N	2.14	0.62
1:M:410:SER:HB3	1:M:430:TYR:CE1	2.34	0.62
1:M:505:SER:O	1:M:577:ALA:HA	1.98	0.62
1:A:413:GLU:HA	1:A:427:LYS:HD3	1.81	0.62
1:A:393:VAL:CG2	1:A:442:ILE:HD13	2.24	0.62
1:C:413:GLU:HA	1:C:427:LYS:HD3	1.81	0.62
1:D:540:LEU:C	1:D:541:ILE:HD12	2.19	0.62
1:E:290:ILE:HD13	1:E:312:LYS:HD3	1.81	0.62
1:E:463:LYS:HE2	1:E:469:ASN:OD1	2.00	0.62
1:E:53:LEU:HB3	1:E:180:THR:CG2	2.30	0.62
1:F:393:VAL:CG2	1:F:442:ILE:HD13	2.24	0.62
1:F:383:LEU:HD11	1:F:610:PHE:CZ	2.35	0.62
1:G:411:LEU:CD2	1:G:429:LYS:HB2	2.30	0.62
1:G:453:HIS:ND1	1:G:487:PHE:HZ	1.97	0.62
1:G:77:GLU:HA	1:G:80:ARG:NH2	2.14	0.62
1:H:192:ARG:HH21	1:H:594:MET:CE	2.12	0.62
1:I:393:VAL:HG22	1:I:442:ILE:CD1	2.27	0.62
1:I:383:LEU:HD11	1:I:610:PHE:CZ	2.35	0.62
1:J:418:ILE:HD13	1:J:418:ILE:H	1.65	0.62
1:J:410:SER:HB3	1:J:430:TYR:CE1	2.34	0.62
1:L:53:LEU:HB3	1:L:180:THR:CG2	2.30	0.62
1:L:584:ARG:HG2	1:L:585:ASP:N	2.06	0.62
1:M:413:GLU:HA	1:M:427:LYS:HD3	1.81	0.62
1:A:411:LEU:CD2	1:A:429:LYS:HB2	2.30	0.62
1:C:410:SER:HB3	1:C:430:TYR:CE1	2.34	0.62
1:D:173:TRP:CZ2	1:D:196:LEU:HD23	2.34	0.62
1:D:20:THR:CG2	1:D:41:ARG:HD3	2.20	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:433:LEU:O	1:E:538:HIS:HB2	1.99	0.62
1:E:383:LEU:HD11	1:E:610:PHE:CZ	2.35	0.62
1:F:413:GLU:HA	1:F:427:LYS:HD3	1.81	0.62
1:G:407:ILE:HD11	1:G:431:HIS:CG	2.35	0.62
1:H:17:THR:HA	1:H:41:ARG:NH2	2.13	0.62
1:H:453:HIS:ND1	1:H:487:PHE:HZ	1.97	0.62
1:I:410:SER:HB3	1:I:430:TYR:CE1	2.34	0.62
1:J:240:LEU:HD13	1:J:418:ILE:HG22	1.82	0.62
1:J:192:ARG:HH21	1:J:594:MET:CE	2.12	0.62
1:L:192:ARG:HH21	1:L:594:MET:CE	2.12	0.62
1:M:411:LEU:CD2	1:M:429:LYS:HB2	2.30	0.62
1:M:453:HIS:ND1	1:M:487:PHE:HZ	1.97	0.62
1:A:383:LEU:HD11	1:A:610:PHE:CZ	2.35	0.62
1:D:407:ILE:HD11	1:D:431:HIS:CG	2.35	0.62
1:D:410:SER:HB3	1:D:430:TYR:CE1	2.34	0.62
1:G:418:ILE:H	1:G:418:ILE:HD13	1.64	0.62
1:G:41:ARG:HB2	1:G:85:GLU:OE1	2.00	0.62
1:I:173:TRP:CZ2	1:I:196:LEU:HD23	2.34	0.62
1:I:235:PRO:CB	1:I:237:LEU:HD23	2.19	0.62
1:J:411:LEU:CD2	1:J:429:LYS:HB2	2.30	0.62
1:J:7:ALA:HA	1:J:10:MET:HE3	1.82	0.62
1:K:106:THR:HG22	1:K:107:VAL:N	2.14	0.62
1:M:407:ILE:HD11	1:M:431:HIS:CG	2.35	0.62
1:F:463:LYS:HE2	1:F:469:ASN:OD1	2.00	0.62
1:G:110:ILE:HA	1:G:113:VAL:HG22	1.82	0.62
1:K:77:GLU:HA	1:K:80:ARG:NH2	2.15	0.62
1:M:173:TRP:CZ2	1:M:196:LEU:HD23	2.34	0.62
1:A:62:ALA:CB	1:A:75:LEU:HD21	2.30	0.62
1:C:411:LEU:CD2	1:C:429:LYS:HB2	2.30	0.62
1:C:192:ARG:HH21	1:C:594:MET:CE	2.13	0.62
1:E:261:VAL:HG21	1:E:323:TRP:CE2	2.35	0.62
1:F:369:GLN:HG3	1:F:478:ARG:HH21	1.63	0.62
1:H:433:LEU:O	1:H:538:HIS:HB2	1.99	0.62
1:J:111:GLN:CG	1:J:164:ILE:HD11	2.28	0.62
1:J:235:PRO:CB	1:J:237:LEU:HD23	2.19	0.62
1:J:407:ILE:HD11	1:J:431:HIS:CG	2.35	0.62
1:J:77:GLU:HA	1:J:80:ARG:NH2	2.14	0.62
1:L:77:GLU:HA	1:L:80:ARG:NH2	2.15	0.62
1:L:97:LEU:HA	1:L:527:SER:CB	2.29	0.62
1:M:540:LEU:C	1:M:541:ILE:HD12	2.20	0.62
1:A:77:GLU:HA	1:A:80:ARG:HH21	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:371:HIS:CD2	1:E:375:PHE:HE1	2.18	0.61
1:G:433:LEU:O	1:G:538:HIS:HB2	1.99	0.61
1:H:261:VAL:HG21	1:H:323:TRP:CE2	2.35	0.61
1:H:413:GLU:HA	1:H:427:LYS:HD3	1.81	0.61
1:H:253:TYR:CD1	1:I:253:TYR:CE2	2.87	0.61
1:K:266:MET:SD	1:K:323:TRP:HB2	2.39	0.61
1:K:393:VAL:CG2	1:K:442:ILE:HD13	2.24	0.61
1:K:97:LEU:HA	1:K:527:SER:CB	2.29	0.61
1:K:383:LEU:HD11	1:K:610:PHE:CZ	2.35	0.61
1:L:383:LEU:HD11	1:L:610:PHE:CZ	2.35	0.61
1:M:110:ILE:HA	1:M:113:VAL:HG22	1.82	0.61
1:M:192:ARG:HH21	1:M:594:MET:CE	2.12	0.61
1:A:106:THR:HG22	1:A:107:VAL:N	2.14	0.61
1:A:290:ILE:HD13	1:A:312:LYS:HD3	1.81	0.61
1:A:36:VAL:CG2	1:A:59:LEU:CG	2.76	0.61
1:E:411:LEU:CD2	1:E:429:LYS:HB2	2.30	0.61
1:E:77:GLU:HA	1:E:80:ARG:NH2	2.15	0.61
1:F:332:THR:O	1:G:250:PRO:HB3	2.00	0.61
1:H:59:LEU:HD12	1:H:87:MET:CG	2.30	0.61
1:I:261:VAL:HG21	1:I:323:TRP:CE2	2.35	0.61
1:K:261:VAL:HG21	1:K:323:TRP:CE2	2.35	0.61
1:L:410:SER:HB3	1:L:430:TYR:CE1	2.34	0.61
1:A:407:ILE:HD11	1:A:431:HIS:CG	2.35	0.61
1:A:410:SER:HB3	1:A:430:TYR:CE1	2.34	0.61
1:D:261:VAL:HG21	1:D:323:TRP:CE2	2.35	0.61
1:D:77:GLU:HA	1:D:80:ARG:NH2	2.15	0.61
1:E:253:TYR:OH	1:E:253:TYR:CZ	2.53	0.61
1:F:53:LEU:HB3	1:F:180:THR:CG2	2.29	0.61
1:I:192:ARG:HH21	1:I:594:MET:CE	2.13	0.61
1:J:110:ILE:HA	1:J:113:VAL:HG22	1.82	0.61
1:K:371:HIS:CD2	1:K:375:PHE:HE1	2.18	0.61
1:L:418:ILE:H	1:L:418:ILE:HD13	1.64	0.61
1:C:53:LEU:HB3	1:C:180:THR:CG2	2.30	0.61
1:C:383:LEU:HD11	1:C:610:PHE:CZ	2.35	0.61
1:D:110:ILE:HA	1:D:113:VAL:HG22	1.82	0.61
1:E:407:ILE:HD11	1:E:431:HIS:CG	2.35	0.61
1:F:106:THR:HG22	1:F:107:VAL:N	2.14	0.61
1:F:371:HIS:CD2	1:F:375:PHE:HE1	2.19	0.61
1:F:393:VAL:HG22	1:F:442:ILE:CD1	2.27	0.61
1:G:240:LEU:HD22	1:G:418:ILE:HG22	1.82	0.61
1:H:379:THR:HG22	1:H:380:LYS:N	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:407:ILE:HD11	1:H:431:HIS:CG	2.35	0.61
1:H:418:ILE:HD13	1:H:418:ILE:H	1.65	0.61
1:I:371:HIS:CD2	1:I:375:PHE:HE1	2.18	0.61
1:J:540:LEU:CG	1:J:541:ILE:HD12	2.31	0.61
1:J:41:ARG:HB2	1:J:85:GLU:OE1	2.00	0.61
1:L:261:VAL:HG21	1:L:323:TRP:CE2	2.35	0.61
1:M:513:THR:CG2	1:M:516:GLN:H	2.12	0.61
1:M:99:ARG:HD3	1:M:102:CYS:SG	2.41	0.61
1:A:399:THR:HB	1:A:402:VAL:HG22	1.82	0.61
1:E:20:THR:CG2	1:E:41:ARG:HD3	2.21	0.61
1:F:407:ILE:HD11	1:F:431:HIS:CG	2.35	0.61
1:F:411:LEU:CD2	1:F:429:LYS:HB2	2.30	0.61
1:F:240:LEU:HD22	1:F:418:ILE:HG22	1.81	0.61
1:F:540:LEU:CG	1:F:541:ILE:HD12	2.31	0.61
1:J:379:THR:HG22	1:J:380:LYS:N	2.16	0.61
1:K:403:ILE:HG21	1:K:622:ILE:HG12	1.83	0.61
1:M:371:HIS:CD2	1:M:375:PHE:HE1	2.18	0.61
1:A:371:HIS:CD2	1:A:375:PHE:HE1	2.18	0.61
1:A:418:ILE:HD13	1:A:418:ILE:H	1.65	0.61
1:C:106:THR:HG22	1:C:107:VAL:N	2.14	0.61
1:C:407:ILE:HD11	1:C:431:HIS:CD2	2.36	0.61
1:D:19:LEU:HG	1:D:19:LEU:O	2.01	0.61
1:D:282:ILE:HD11	1:D:312:LYS:HD2	1.83	0.61
1:E:110:ILE:HA	1:E:113:VAL:HG22	1.82	0.61
1:E:292:LEU:CD2	1:E:300:ILE:HD11	2.31	0.61
1:E:418:ILE:H	1:E:418:ILE:HD13	1.65	0.61
1:F:110:ILE:HA	1:F:113:VAL:HG22	1.82	0.61
1:F:250:PRO:HB3	1:G:332:THR:O	2.00	0.61
1:F:82:ILE:HG23	1:F:83:VAL:N	2.16	0.61
1:G:371:HIS:CD2	1:G:375:PHE:HE1	2.18	0.61
1:H:407:ILE:HD11	1:H:431:HIS:CD2	2.36	0.61
1:H:411:LEU:CD2	1:H:429:LYS:HB2	2.30	0.61
1:H:540:LEU:CG	1:H:541:ILE:HD12	2.31	0.61
1:J:407:ILE:HD11	1:J:431:HIS:CD2	2.36	0.61
1:K:407:ILE:HD11	1:K:431:HIS:CD2	2.36	0.61
1:L:379:THR:HG22	1:L:380:LYS:N	2.16	0.61
1:I:605:ARG:HH22	1:L:38:ILE:CG2	2.13	0.61
1:M:41:ARG:HB2	1:M:85:GLU:OE1	2.00	0.61
1:A:407:ILE:HD11	1:A:431:HIS:CD2	2.36	0.61
1:C:379:THR:HG22	1:C:380:LYS:N	2.16	0.61
1:C:97:LEU:HA	1:C:527:SER:CB	2.29	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:290:ILE:HD13	1:D:312:LYS:HD3	1.81	0.61
1:D:82:ILE:HG23	1:D:83:VAL:N	2.16	0.61
1:E:379:THR:HG22	1:E:380:LYS:N	2.16	0.61
1:F:385:PHE:CD1	1:F:559:ASP:HB2	2.36	0.61
1:I:513:THR:CG2	1:I:516:GLN:H	2.12	0.61
1:J:11:PRO:HA	1:J:14:LYS:HZ3	1.64	0.61
1:J:383:LEU:HD11	1:J:610:PHE:CZ	2.35	0.61
1:K:399:THR:HB	1:K:402:VAL:HG22	1.82	0.61
1:K:407:ILE:HD11	1:K:431:HIS:CG	2.35	0.61
1:L:19:LEU:HG	1:L:19:LEU:O	2.01	0.61
1:A:110:ILE:HA	1:A:113:VAL:HG22	1.82	0.61
1:A:453:HIS:ND1	1:A:487:PHE:HZ	1.97	0.61
1:C:530:TYR:HD1	1:C:574:CYS:SG	2.23	0.61
1:D:379:THR:HG22	1:D:380:LYS:N	2.16	0.61
1:D:407:ILE:HD11	1:D:431:HIS:CD2	2.36	0.61
1:F:261:VAL:HG21	1:F:323:TRP:CE2	2.35	0.61
1:F:379:THR:HG22	1:F:380:LYS:N	2.16	0.61
1:G:463:LYS:HE2	1:G:469:ASN:OD1	2.00	0.61
1:I:110:ILE:HA	1:I:113:VAL:HG22	1.82	0.61
1:I:282:ILE:HD11	1:I:312:LYS:HD2	1.83	0.61
1:I:540:LEU:CG	1:I:541:ILE:HD12	2.31	0.61
1:L:385:PHE:CD1	1:L:559:ASP:HB2	2.36	0.61
1:L:407:ILE:HD11	1:L:431:HIS:CD2	2.36	0.61
1:M:282:ILE:HD11	1:M:312:LYS:HD2	1.83	0.61
1:M:383:LEU:HD11	1:M:610:PHE:CZ	2.35	0.61
1:A:261:VAL:HG21	1:A:323:TRP:CE2	2.35	0.61
1:D:385:PHE:CD1	1:D:559:ASP:HB2	2.36	0.61
1:D:383:LEU:HD11	1:D:610:PHE:CZ	2.35	0.61
1:F:7:ALA:HA	1:F:10:MET:HE2	1.83	0.61
1:F:235:PRO:CB	1:F:237:LEU:HD23	2.19	0.61
1:F:282:ILE:HD11	1:F:312:LYS:HD2	1.83	0.61
1:F:77:GLU:HA	1:F:80:ARG:NH2	2.15	0.61
1:G:399:THR:HB	1:G:402:VAL:HG22	1.82	0.61
1:J:413:GLU:HA	1:J:427:LYS:HD3	1.81	0.61
1:K:235:PRO:CB	1:K:237:LEU:HD23	2.19	0.61
1:K:379:THR:HG22	1:K:380:LYS:N	2.16	0.61
1:M:229:PRO:HA	1:M:253:TYR:O	2.01	0.61
1:A:463:LYS:HE2	1:A:469:ASN:OD1	2.00	0.61
1:D:591:LYS:CE	1:D:591:LYS:HA	2.30	0.61
1:D:7:ALA:HA	1:D:10:MET:HE3	1.83	0.61
1:E:413:GLU:HA	1:E:427:LYS:HD3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:407:ILE:HD11	1:F:431:HIS:CD2	2.36	0.61
1:G:261:VAL:HG21	1:G:323:TRP:CE2	2.35	0.61
1:G:385:PHE:CD1	1:G:559:ASP:HB2	2.36	0.61
1:G:403:ILE:HG21	1:G:622:ILE:HG12	1.83	0.61
1:H:282:ILE:HD11	1:H:312:LYS:HD2	1.83	0.61
1:I:53:LEU:HB3	1:I:180:THR:CG2	2.30	0.61
1:J:172:HIS:NE2	1:J:532:SER:HB3	2.15	0.61
1:J:403:ILE:HG21	1:J:622:ILE:HG12	1.83	0.61
1:L:110:ILE:HA	1:L:113:VAL:HG22	1.82	0.61
1:M:379:THR:HG22	1:M:380:LYS:N	2.15	0.61
1:A:282:ILE:HD11	1:A:312:LYS:HD2	1.83	0.60
1:A:379:THR:HG22	1:A:380:LYS:N	2.16	0.60
1:A:403:ILE:HG21	1:A:622:ILE:HG12	1.83	0.60
1:A:82:ILE:HG23	1:A:83:VAL:N	2.16	0.60
1:D:411:LEU:CD2	1:D:429:LYS:HB2	2.30	0.60
1:D:192:ARG:HH21	1:D:594:MET:CE	2.13	0.60
1:E:177:TYR:CE1	1:E:196:LEU:HD22	2.36	0.60
1:E:385:PHE:CD1	1:E:559:ASP:HB2	2.36	0.60
1:E:59:LEU:HD12	1:E:87:MET:CG	2.30	0.60
1:F:399:THR:HB	1:F:402:VAL:HG22	1.82	0.60
1:G:177:TYR:CE1	1:G:196:LEU:HD22	2.36	0.60
1:G:290:ILE:HD13	1:G:312:LYS:HD3	1.81	0.60
1:G:166:ILE:HD11	1:G:539:MET:HE2	1.83	0.60
1:I:411:LEU:CD2	1:I:429:LYS:HB2	2.30	0.60
1:J:177:TYR:CE1	1:J:196:LEU:HD22	2.36	0.60
1:J:282:ILE:HD11	1:J:312:LYS:HD2	1.83	0.60
1:J:261:VAL:HG21	1:J:323:TRP:CE2	2.35	0.60
1:K:19:LEU:HG	1:K:19:LEU:O	2.01	0.60
1:L:411:LEU:CD2	1:L:429:LYS:HB2	2.30	0.60
1:M:19:LEU:HG	1:M:19:LEU:O	2.01	0.60
1:M:20:THR:CG2	1:M:41:ARG:HD3	2.21	0.60
1:A:540:LEU:CG	1:A:541:ILE:HD12	2.31	0.60
1:C:235:PRO:CB	1:C:237:LEU:HD23	2.19	0.60
1:C:399:THR:HB	1:C:402:VAL:HG22	1.82	0.60
1:C:407:ILE:HD11	1:C:431:HIS:CG	2.35	0.60
1:C:463:LYS:HE2	1:C:469:ASN:OD1	2.01	0.60
1:C:77:GLU:HA	1:C:80:ARG:NH2	2.15	0.60
1:E:399:THR:HB	1:E:402:VAL:HG22	1.82	0.60
1:G:379:THR:HG22	1:G:380:LYS:N	2.16	0.60
1:G:407:ILE:HD11	1:G:431:HIS:CD2	2.36	0.60
1:C:150:ILE:O	1:G:467:LEU:CD1	2.49	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:399:THR:HB	1:I:402:VAL:HG22	1.83	0.60
1:I:418:ILE:HD13	1:I:418:ILE:H	1.65	0.60
1:K:413:GLU:HA	1:K:427:LYS:HD3	1.81	0.60
1:L:282:ILE:HD11	1:L:312:LYS:HD2	1.83	0.60
1:L:403:ILE:HG21	1:L:622:ILE:HG12	1.83	0.60
1:L:407:ILE:HD11	1:L:431:HIS:CG	2.35	0.60
1:M:261:VAL:HG21	1:M:323:TRP:CE2	2.35	0.60
1:M:94:VAL:HG22	1:M:175:ILE:HG13	1.82	0.60
1:C:111:GLN:CG	1:C:164:ILE:HD11	2.28	0.60
1:C:403:ILE:HG21	1:C:622:ILE:HG12	1.83	0.60
1:C:82:ILE:HG23	1:C:83:VAL:N	2.16	0.60
1:D:371:HIS:CD2	1:D:375:PHE:HE1	2.19	0.60
1:D:403:ILE:HG21	1:D:622:ILE:HG12	1.83	0.60
1:D:69:PHE:HE1	1:D:102:CYS:SG	2.25	0.60
1:H:290:ILE:HD13	1:H:312:LYS:HD3	1.81	0.60
1:J:371:HIS:CD2	1:J:375:PHE:HE1	2.19	0.60
1:K:385:PHE:CD1	1:K:559:ASP:HB2	2.36	0.60
1:M:290:ILE:HD13	1:M:312:LYS:HD3	1.81	0.60
1:A:591:LYS:CE	1:A:591:LYS:HA	2.30	0.60
1:C:290:ILE:HD13	1:C:312:LYS:HD3	1.81	0.60
1:C:540:LEU:CG	1:C:541:ILE:HD12	2.31	0.60
1:C:385:PHE:CD1	1:C:559:ASP:HB2	2.36	0.60
1:D:463:LYS:HE2	1:D:469:ASN:OD1	2.00	0.60
1:E:403:ILE:HG21	1:E:622:ILE:HG12	1.83	0.60
1:E:82:ILE:HG23	1:E:83:VAL:N	2.16	0.60
1:J:591:LYS:HA	1:J:591:LYS:CE	2.30	0.60
1:K:540:LEU:CG	1:K:541:ILE:HD12	2.31	0.60
1:L:371:HIS:CD2	1:L:375:PHE:HE1	2.18	0.60
1:C:413:GLU:HB2	1:C:427:LYS:HE2	1.84	0.60
1:F:17:THR:HG21	1:F:241:VAL:HA	1.83	0.60
1:F:591:LYS:HA	1:F:591:LYS:CE	2.30	0.60
1:H:110:ILE:HA	1:H:113:VAL:HG22	1.82	0.60
1:H:177:TYR:CE1	1:H:196:LEU:HD22	2.36	0.60
1:I:201:HIS:HA	1:I:204:MET:HE2	1.84	0.60
1:J:385:PHE:CD1	1:J:559:ASP:HB2	2.36	0.60
1:K:110:ILE:HA	1:K:113:VAL:HG22	1.82	0.60
1:L:290:ILE:HD13	1:L:312:LYS:HD3	1.81	0.60
1:L:540:LEU:CG	1:L:541:ILE:HD12	2.31	0.60
1:M:385:PHE:CD1	1:M:559:ASP:HB2	2.36	0.60
1:M:418:ILE:HD13	1:M:418:ILE:H	1.65	0.60
1:C:408:LYS:NZ	1:C:408:LYS:HB2	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:177:TYR:CE1	1:D:196:LEU:HD22	2.36	0.60
1:F:413:GLU:HB2	1:F:427:LYS:HE2	1.84	0.60
1:G:393:VAL:HG22	1:G:442:ILE:CD1	2.27	0.60
1:H:385:PHE:CD1	1:H:559:ASP:HB2	2.36	0.60
1:J:94:VAL:HG22	1:J:175:ILE:HG13	1.82	0.60
1:M:240:LEU:HD22	1:M:418:ILE:HG22	1.84	0.60
1:M:407:ILE:HD11	1:M:431:HIS:CD2	2.36	0.60
1:A:19:LEU:HD23	1:A:80:ARG:HB3	1.84	0.60
1:A:413:GLU:HB2	1:A:427:LYS:HE2	1.84	0.60
1:E:407:ILE:HD11	1:E:431:HIS:CD2	2.36	0.60
1:F:19:LEU:O	1:F:19:LEU:HG	2.01	0.60
1:G:19:LEU:O	1:G:19:LEU:HG	2.01	0.60
1:H:403:ILE:HG21	1:H:622:ILE:HG12	1.83	0.60
1:I:379:THR:HG22	1:I:380:LYS:N	2.15	0.60
1:I:407:ILE:HD11	1:I:431:HIS:CD2	2.36	0.60
1:K:19:LEU:HD23	1:K:80:ARG:HB3	1.84	0.60
1:M:540:LEU:CG	1:M:541:ILE:HD12	2.31	0.60
1:A:385:PHE:CD1	1:A:559:ASP:HB2	2.36	0.60
1:A:77:GLU:HA	1:A:80:ARG:NH2	2.15	0.60
1:C:371:HIS:CD2	1:C:375:PHE:HE1	2.18	0.60
1:C:453:HIS:ND1	1:C:487:PHE:HZ	1.97	0.60
1:C:587:ARG:NH2	1:I:568:LEU:HB2	2.12	0.60
1:D:201:HIS:HA	1:D:204:MET:HE2	1.84	0.60
1:D:552:GLU:CD	1:D:617:LEU:HD23	2.22	0.60
1:E:97:LEU:HA	1:E:527:SER:CB	2.29	0.60
1:H:371:HIS:CD2	1:H:375:PHE:HE1	2.18	0.60
1:I:177:TYR:CE1	1:I:196:LEU:HD22	2.37	0.60
1:I:413:GLU:HB2	1:I:427:LYS:HE2	1.84	0.60
1:I:552:GLU:CD	1:I:617:LEU:HD23	2.22	0.60
1:J:393:VAL:HG22	1:J:442:ILE:CD1	2.27	0.60
1:K:173:TRP:O	1:K:176:VAL:HG22	2.02	0.60
1:K:194:GLY:HA3	1:K:299:ASP:O	2.01	0.60
1:L:177:TYR:CE1	1:L:196:LEU:HD22	2.36	0.60
1:A:177:TYR:CE1	1:A:196:LEU:HD22	2.36	0.60
1:A:277:ILE:HA	1:A:292:LEU:HD11	1.84	0.60
1:A:385:PHE:CE1	1:A:559:ASP:HB2	2.37	0.60
1:A:408:LYS:NZ	1:A:408:LYS:HB2	2.17	0.60
1:C:119:VAL:HB	1:C:123:THR:HG21	1.84	0.60
1:C:19:LEU:O	1:C:19:LEU:HG	2.01	0.60
1:D:540:LEU:CG	1:D:541:ILE:HD12	2.31	0.60
1:G:173:TRP:O	1:G:176:VAL:HG22	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:369:GLN:HG3	1:G:478:ARG:NH2	2.17	0.60
1:G:413:GLU:HB2	1:G:427:LYS:HE2	1.84	0.60
1:G:540:LEU:CG	1:G:541:ILE:HD12	2.31	0.60
1:G:552:GLU:CD	1:G:617:LEU:HD23	2.22	0.60
1:H:82:ILE:HG23	1:H:83:VAL:N	2.16	0.60
1:I:385:PHE:CD1	1:I:559:ASP:HB2	2.36	0.60
1:J:552:GLU:CD	1:J:617:LEU:HD23	2.22	0.60
1:K:408:LYS:HB2	1:K:408:LYS:NZ	2.17	0.60
1:L:20:THR:CG2	1:L:41:ARG:HD3	2.20	0.60
1:M:403:ILE:HG21	1:M:622:ILE:HG12	1.83	0.60
1:C:173:TRP:O	1:C:176:VAL:HG22	2.02	0.60
1:C:385:PHE:CE1	1:C:559:ASP:HB2	2.37	0.60
1:D:111:GLN:H	1:D:111:GLN:NE2	2.00	0.60
1:E:173:TRP:O	1:E:176:VAL:HG22	2.02	0.60
1:I:369:GLN:HG3	1:I:478:ARG:NH2	2.17	0.60
1:J:606:THR:HG23	1:J:609:GLU:H	1.67	0.60
1:M:255:ILE:HG23	1:M:263:VAL:HG21	1.84	0.60
1:M:552:GLU:CD	1:M:617:LEU:HD23	2.22	0.60
1:A:19:LEU:O	1:A:19:LEU:HG	2.01	0.59
1:C:177:TYR:CE1	1:C:196:LEU:HD22	2.37	0.59
1:C:552:GLU:CD	1:C:617:LEU:HD23	2.22	0.59
1:D:173:TRP:O	1:D:176:VAL:HG22	2.02	0.59
1:E:408:LYS:HB2	1:E:408:LYS:NZ	2.17	0.59
1:E:541:ILE:N	1:E:541:ILE:HD12	2.17	0.59
1:F:177:TYR:CE1	1:F:196:LEU:HD22	2.36	0.59
1:F:369:GLN:HG3	1:F:478:ARG:NH2	2.17	0.59
1:G:111:GLN:H	1:G:111:GLN:NE2	2.00	0.59
1:G:94:VAL:HG22	1:G:175:ILE:HG13	1.82	0.59
1:H:229:PRO:HA	1:H:253:TYR:O	2.02	0.59
1:I:408:LYS:NZ	1:I:408:LYS:HB2	2.17	0.59
1:I:59:LEU:O	1:I:63:LEU:HD13	2.02	0.59
1:J:212:ARG:HD2	1:J:220:MET:HG2	1.84	0.59
1:J:393:VAL:CG2	1:J:442:ILE:HD13	2.24	0.59
1:K:224:HIS:CE1	1:M:264:GLN:HE22	2.16	0.59
1:K:385:PHE:CE1	1:K:559:ASP:HB2	2.37	0.59
1:L:413:GLU:HB2	1:L:427:LYS:HE2	1.84	0.59
1:C:606:THR:HG23	1:C:609:GLU:H	1.67	0.59
1:E:111:GLN:H	1:E:111:GLN:NE2	2.00	0.59
1:E:540:LEU:CG	1:E:541:ILE:HD12	2.31	0.59
1:F:170:HIS:CE1	1:F:174:HIS:HE2	2.20	0.59
1:G:282:ILE:HD11	1:G:312:LYS:HD2	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:541:ILE:N	1:G:541:ILE:HD12	2.17	0.59
1:G:606:THR:HG23	1:G:609:GLU:H	1.67	0.59
1:H:113:VAL:HG23	1:H:114:PHE:HD2	1.67	0.59
1:H:399:THR:HB	1:H:402:VAL:HG22	1.82	0.59
1:H:369:GLN:HG3	1:H:478:ARG:NH2	2.17	0.59
1:H:591:LYS:CE	1:H:591:LYS:HA	2.31	0.59
1:J:408:LYS:NZ	1:J:408:LYS:HB2	2.17	0.59
1:K:69:PHE:HE1	1:K:102:CYS:SG	2.25	0.59
1:K:82:ILE:HG23	1:K:83:VAL:N	2.16	0.59
1:L:606:THR:HG23	1:L:609:GLU:H	1.67	0.59
1:M:413:GLU:HB2	1:M:427:LYS:HE2	1.84	0.59
1:A:170:HIS:CE1	1:A:174:HIS:HE2	2.20	0.59
1:A:59:LEU:O	1:A:63:LEU:HD13	2.02	0.59
1:D:541:ILE:N	1:D:541:ILE:HD12	2.17	0.59
1:E:591:LYS:CE	1:E:591:LYS:HA	2.31	0.59
1:F:173:TRP:O	1:F:176:VAL:HG22	2.02	0.59
1:F:403:ILE:HG21	1:F:622:ILE:HG12	1.83	0.59
1:F:408:LYS:NZ	1:F:408:LYS:HB2	2.17	0.59
1:H:393:VAL:HG22	1:H:442:ILE:CD1	2.27	0.59
1:H:552:GLU:CD	1:H:617:LEU:HD23	2.22	0.59
1:I:267:VAL:HG13	1:I:270:ARG:HH22	1.66	0.59
1:J:170:HIS:CE1	1:J:174:HIS:HE2	2.20	0.59
1:K:170:HIS:CE1	1:K:174:HIS:HE2	2.21	0.59
1:K:541:ILE:HD12	1:K:541:ILE:N	2.17	0.59
1:L:541:ILE:HD12	1:L:541:ILE:N	2.18	0.59
1:L:59:LEU:O	1:L:63:LEU:HD13	2.02	0.59
1:M:385:PHE:CE1	1:M:559:ASP:HB2	2.37	0.59
1:A:119:VAL:HG23	1:A:124:ILE:HG13	1.85	0.59
1:C:170:HIS:CE1	1:C:174:HIS:HE2	2.20	0.59
1:C:175:ILE:O	1:C:178:PRO:HD3	2.03	0.59
1:C:369:GLN:HG3	1:C:478:ARG:NH2	2.17	0.59
1:D:385:PHE:CE1	1:D:559:ASP:HB2	2.37	0.59
1:D:19:LEU:HD23	1:D:80:ARG:HB3	1.84	0.59
1:E:121:ALA:HA	1:E:124:ILE:HD12	1.83	0.59
1:E:111:GLN:CG	1:E:164:ILE:HD11	2.28	0.59
1:E:282:ILE:HD11	1:E:312:LYS:HD2	1.83	0.59
1:E:369:GLN:HG3	1:E:478:ARG:NH2	2.17	0.59
1:E:552:GLU:CD	1:E:617:LEU:HD23	2.22	0.59
1:F:552:GLU:CD	1:F:617:LEU:HD23	2.23	0.59
1:G:172:HIS:NE2	1:G:532:SER:HB3	2.16	0.59
1:G:99:ARG:HD3	1:G:102:CYS:SG	2.41	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:111:GLN:H	1:I:111:GLN:NE2	2.00	0.59
1:J:306:GLU:O	1:J:321:HIS:HB3	2.03	0.59
1:J:385:PHE:CE1	1:J:559:ASP:HB2	2.37	0.59
1:K:111:GLN:H	1:K:111:GLN:NE2	2.00	0.59
1:K:212:ARG:HD2	1:K:220:MET:HG2	1.84	0.59
1:K:166:ILE:HD11	1:K:539:MET:HE2	1.83	0.59
1:L:385:PHE:CE1	1:L:559:ASP:HB2	2.37	0.59
1:L:591:LYS:HA	1:L:591:LYS:CE	2.31	0.59
1:A:111:GLN:H	1:A:111:GLN:NE2	2.00	0.59
1:A:173:TRP:O	1:A:176:VAL:HG22	2.02	0.59
1:A:59:LEU:HD21	1:A:83:VAL:HG11	1.84	0.59
1:A:84:ASN:HD21	1:A:87:MET:HB2	1.68	0.59
1:C:541:ILE:N	1:C:541:ILE:HD12	2.18	0.59
1:D:59:LEU:O	1:D:63:LEU:HD13	2.02	0.59
1:E:212:ARG:HD2	1:E:220:MET:HG2	1.84	0.59
1:E:69:PHE:HE1	1:E:102:CYS:SG	2.25	0.59
1:E:19:LEU:HD23	1:E:80:ARG:HB3	1.84	0.59
1:F:166:ILE:HD11	1:F:539:MET:HE2	1.85	0.59
1:H:463:LYS:HE2	1:H:469:ASN:OD1	2.01	0.59
1:H:541:ILE:N	1:H:541:ILE:HD12	2.18	0.59
1:I:170:HIS:CE1	1:I:174:HIS:HE2	2.21	0.59
1:I:385:PHE:CE1	1:I:559:ASP:HB2	2.37	0.59
1:K:413:GLU:HB2	1:K:427:LYS:HE2	1.84	0.59
1:L:369:GLN:HG3	1:L:478:ARG:NH2	2.17	0.59
1:M:177:TYR:CE1	1:M:196:LEU:HD22	2.37	0.59
1:M:175:ILE:O	1:M:178:PRO:HD3	2.03	0.59
1:M:408:LYS:NZ	1:M:408:LYS:HB2	2.17	0.59
1:M:369:GLN:HG3	1:M:478:ARG:NH2	2.17	0.59
1:A:552:GLU:CD	1:A:617:LEU:HD23	2.22	0.59
1:C:157:LEU:N	1:C:157:LEU:HD12	2.18	0.59
1:D:413:GLU:HB2	1:D:427:LYS:HE2	1.84	0.59
1:E:157:LEU:N	1:E:157:LEU:HD12	2.18	0.59
1:E:212:ARG:CZ	1:E:220:MET:HE3	2.33	0.59
1:G:212:ARG:HD2	1:G:220:MET:HG2	1.84	0.59
1:H:119:VAL:HG23	1:H:124:ILE:HG13	1.85	0.59
1:I:306:GLU:O	1:I:321:HIS:HB3	2.03	0.59
1:I:605:ARG:NH2	1:L:38:ILE:HG22	2.17	0.59
1:J:173:TRP:O	1:J:176:VAL:HG22	2.02	0.59
1:J:175:ILE:O	1:J:178:PRO:HD3	2.03	0.59
1:K:175:ILE:O	1:K:178:PRO:HD3	2.03	0.59
1:L:157:LEU:N	1:L:157:LEU:HD12	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:19:LEU:HD23	1:L:80:ARG:HB3	1.84	0.59
1:M:173:TRP:O	1:M:176:VAL:HG22	2.02	0.59
1:M:306:GLU:O	1:M:321:HIS:HB3	2.03	0.59
1:A:244:LEU:N	1:A:244:LEU:HD12	2.18	0.59
1:A:306:GLU:O	1:A:321:HIS:HB3	2.03	0.59
1:C:119:VAL:HG23	1:C:124:ILE:HG13	1.85	0.59
1:E:19:LEU:O	1:E:19:LEU:HG	2.01	0.59
1:G:170:HIS:CE1	1:G:174:HIS:HE2	2.20	0.59
1:G:175:ILE:O	1:G:178:PRO:HD3	2.03	0.59
1:G:255:ILE:HD12	1:G:331:ILE:HD13	1.83	0.59
1:G:591:LYS:HA	1:G:591:LYS:CE	2.31	0.59
1:J:369:GLN:HG3	1:J:478:ARG:NH2	2.17	0.59
1:K:10:MET:HB2	1:K:11:PRO:HD3	1.85	0.59
1:L:69:PHE:HE1	1:L:102:CYS:SG	2.25	0.59
1:L:59:LEU:HD12	1:L:87:MET:CG	2.30	0.59
1:M:79:ALA:HB3	1:M:88:PHE:CE2	2.37	0.59
1:A:175:ILE:O	1:A:178:PRO:HD3	2.03	0.59
1:D:208:TYR:HE2	1:D:220:MET:CG	2.16	0.59
1:D:306:GLU:O	1:D:321:HIS:HB3	2.03	0.59
1:D:369:GLN:HG3	1:D:478:ARG:NH2	2.17	0.59
1:F:59:LEU:O	1:F:63:LEU:HD13	2.03	0.59
1:H:253:TYR:OH	1:I:250:PRO:HD2	2.03	0.59
1:H:385:PHE:CE1	1:H:559:ASP:HB2	2.37	0.59
1:I:59:LEU:HD12	1:I:87:MET:CG	2.30	0.59
1:J:208:TYR:HE2	1:J:220:MET:CG	2.16	0.59
1:K:208:TYR:HE2	1:K:220:MET:CG	2.16	0.59
1:L:82:ILE:HG23	1:L:83:VAL:N	2.16	0.59
1:M:541:ILE:HD12	1:M:541:ILE:N	2.17	0.59
1:M:97:LEU:HG	1:M:527:SER:HB3	1.84	0.59
1:A:10:MET:HB2	1:A:11:PRO:HD3	1.85	0.59
1:A:369:GLN:HG3	1:A:478:ARG:NH2	2.17	0.59
1:D:399:THR:HB	1:D:402:VAL:HG22	1.82	0.59
1:E:413:GLU:HB2	1:E:427:LYS:HE2	1.84	0.59
1:F:113:VAL:HG23	1:F:114:PHE:HD2	1.67	0.59
1:F:306:GLU:O	1:F:321:HIS:HB3	2.03	0.59
1:G:306:GLU:O	1:G:321:HIS:HB3	2.03	0.59
1:H:10:MET:HB2	1:H:11:PRO:HD3	1.85	0.59
1:H:157:LEU:N	1:H:157:LEU:HD12	2.18	0.59
1:H:240:LEU:HD22	1:H:418:ILE:HG22	1.84	0.59
1:H:84:ASN:HD21	1:H:87:MET:HB2	1.68	0.59
1:I:173:TRP:O	1:I:176:VAL:HG22	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:403:ILE:HG21	1:I:622:ILE:HG12	1.83	0.59
1:I:606:THR:HG23	1:I:609:GLU:H	1.67	0.59
1:L:173:TRP:O	1:L:176:VAL:HG22	2.02	0.59
1:L:552:GLU:CD	1:L:617:LEU:HD23	2.22	0.59
1:M:170:HIS:CE1	1:M:174:HIS:HE2	2.21	0.59
1:A:606:THR:HG23	1:A:609:GLU:H	1.67	0.59
1:E:175:ILE:O	1:E:178:PRO:HD3	2.03	0.59
1:G:157:LEU:N	1:G:157:LEU:HD12	2.18	0.59
1:G:408:LYS:HB2	1:G:408:LYS:NZ	2.17	0.59
1:H:76:CYS:SG	1:H:88:PHE:HZ	2.26	0.59
1:I:173:TRP:NE1	1:I:196:LEU:HD21	2.18	0.59
1:I:253:TYR:CZ	1:I:253:TYR:OH	2.56	0.59
1:I:290:ILE:HD13	1:I:312:LYS:HD3	1.81	0.59
1:J:282:ILE:HG23	1:J:292:LEU:HD21	1.85	0.59
1:K:463:LYS:HE2	1:K:469:ASN:OD1	2.02	0.59
1:M:606:THR:HG23	1:M:609:GLU:H	1.67	0.59
1:A:208:TYR:HE2	1:A:220:MET:CG	2.16	0.58
1:A:282:ILE:HG23	1:A:292:LEU:HD21	1.85	0.58
1:C:10:MET:HB2	1:C:11:PRO:HD3	1.85	0.58
1:C:151:LEU:N	1:C:151:LEU:HD22	2.18	0.58
1:D:404:THR:HG22	1:D:406:LEU:CD1	2.33	0.58
1:D:408:LYS:HB2	1:D:408:LYS:NZ	2.17	0.58
1:E:208:TYR:HE2	1:E:220:MET:CG	2.16	0.58
1:E:304:ILE:HA	1:E:311:SER:CA	2.30	0.58
1:E:404:THR:HG22	1:E:406:LEU:CD1	2.33	0.58
1:E:59:LEU:O	1:E:63:LEU:HD13	2.02	0.58
1:F:282:ILE:HG23	1:F:292:LEU:HD21	1.85	0.58
1:F:385:PHE:CE1	1:F:559:ASP:HB2	2.37	0.58
1:G:79:ALA:HB3	1:G:88:PHE:CE2	2.37	0.58
1:I:208:TYR:HE2	1:I:220:MET:CG	2.16	0.58
1:K:552:GLU:CD	1:K:617:LEU:HD23	2.22	0.58
1:L:208:TYR:HE2	1:L:220:MET:CG	2.16	0.58
1:L:408:LYS:HB2	1:L:408:LYS:NZ	2.17	0.58
1:L:49:HIS:HB3	1:L:52:HIS:HD2	1.68	0.58
1:M:172:HIS:NE2	1:M:532:SER:HB3	2.17	0.58
1:A:49:HIS:HB3	1:A:52:HIS:HD2	1.68	0.58
1:C:12:LEU:HD13	1:C:76:CYS:SG	2.44	0.58
1:C:59:LEU:O	1:C:63:LEU:HD13	2.02	0.58
1:D:175:ILE:O	1:D:178:PRO:HD3	2.03	0.58
1:E:113:VAL:HG23	1:E:114:PHE:HD2	1.67	0.58
1:F:111:GLN:H	1:F:111:GLN:NE2	2.00	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:404:THR:HG22	1:F:406:LEU:CD1	2.33	0.58
1:G:385:PHE:CE1	1:G:559:ASP:HB2	2.37	0.58
1:H:119:VAL:HB	1:H:123:THR:HG21	1.84	0.58
1:H:404:THR:HG22	1:H:406:LEU:CD1	2.33	0.58
1:H:558:THR:HG22	1:H:559:ASP:N	2.19	0.58
1:I:175:ILE:O	1:I:178:PRO:HD3	2.03	0.58
1:J:541:ILE:N	1:J:541:ILE:HD12	2.17	0.58
1:K:118:PHE:CD2	1:K:164:ILE:HG13	2.38	0.58
1:L:175:ILE:O	1:L:178:PRO:HD3	2.03	0.58
1:L:282:ILE:HG23	1:L:292:LEU:HD21	1.85	0.58
1:L:399:THR:HB	1:L:402:VAL:HG22	1.82	0.58
1:L:404:THR:HG22	1:L:406:LEU:CD1	2.33	0.58
1:M:404:THR:HG22	1:M:406:LEU:CD1	2.34	0.58
1:C:111:GLN:NE2	1:C:111:GLN:H	2.00	0.58
1:C:282:ILE:HG13	1:C:290:ILE:HG12	1.84	0.58
1:C:563:ASP:OD1	1:C:592:LYS:HD3	2.03	0.58
1:D:558:THR:HG22	1:D:559:ASP:N	2.19	0.58
1:D:84:ASN:HD21	1:D:87:MET:HB2	1.68	0.58
1:E:393:VAL:HG22	1:E:442:ILE:CD1	2.27	0.58
1:E:49:HIS:HB3	1:E:52:HIS:HD2	1.68	0.58
1:E:395:ILE:HD13	1:E:620:ILE:HG21	1.85	0.58
1:F:212:ARG:HD2	1:F:220:MET:HG2	1.84	0.58
1:H:173:TRP:NE1	1:H:196:LEU:HD21	2.18	0.58
1:H:208:TYR:HE2	1:H:220:MET:CG	2.16	0.58
1:I:212:ARG:HD2	1:I:220:MET:HG2	1.84	0.58
1:J:399:THR:HB	1:J:402:VAL:HG22	1.82	0.58
1:J:463:LYS:HE2	1:J:469:ASN:OD1	2.03	0.58
1:J:79:ALA:HB3	1:J:88:PHE:CE2	2.37	0.58
1:L:306:GLU:O	1:L:321:HIS:HB3	2.03	0.58
1:L:332:THR:OG1	1:M:250:PRO:HG3	2.03	0.58
1:L:404:THR:HG22	1:L:406:LEU:HD11	1.86	0.58
1:M:212:ARG:HD2	1:M:220:MET:HG2	1.84	0.58
1:A:117:ARG:HG3	1:A:118:PHE:CD1	2.39	0.58
1:A:541:ILE:HD12	1:A:541:ILE:N	2.17	0.58
1:A:558:THR:HG22	1:A:559:ASP:N	2.19	0.58
1:D:212:ARG:HD2	1:D:220:MET:HG2	1.84	0.58
1:D:404:THR:HG22	1:D:406:LEU:HD11	1.86	0.58
1:E:385:PHE:CE1	1:E:559:ASP:HB2	2.37	0.58
1:G:113:VAL:HG23	1:G:114:PHE:HD2	1.67	0.58
1:G:173:TRP:NE1	1:G:196:LEU:HD21	2.18	0.58
1:G:404:THR:HG22	1:G:406:LEU:CD1	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:170:HIS:CE1	1:H:174:HIS:HE2	2.20	0.58
1:H:282:ILE:HG23	1:H:292:LEU:HD21	1.85	0.58
1:H:59:LEU:O	1:H:63:LEU:HD13	2.03	0.58
1:I:113:VAL:HG23	1:I:114:PHE:HD2	1.67	0.58
1:I:244:LEU:N	1:I:244:LEU:HD12	2.18	0.58
1:I:404:THR:HG22	1:I:406:LEU:CD1	2.34	0.58
1:K:369:GLN:HG3	1:K:478:ARG:NH2	2.17	0.58
1:K:84:ASN:HD21	1:K:87:MET:HB2	1.68	0.58
1:M:282:ILE:HG23	1:M:292:LEU:HD21	1.85	0.58
1:M:558:THR:HG22	1:M:559:ASP:N	2.18	0.58
1:M:395:ILE:HD13	1:M:620:ILE:HG21	1.86	0.58
1:A:212:ARG:HD2	1:A:220:MET:HG2	1.84	0.58
1:A:395:ILE:HD13	1:A:620:ILE:HG21	1.85	0.58
1:A:404:THR:HG22	1:A:406:LEU:CD1	2.34	0.58
1:C:530:TYR:CD1	1:C:574:CYS:SG	2.97	0.58
1:E:36:VAL:HG11	1:E:59:LEU:HD21	1.86	0.58
1:F:84:ASN:HD21	1:F:87:MET:HB2	1.68	0.58
1:H:111:GLN:NE2	1:H:111:GLN:H	2.00	0.58
1:H:212:ARG:HD2	1:H:220:MET:HG2	1.84	0.58
1:H:413:GLU:HB2	1:H:427:LYS:HE2	1.84	0.58
1:H:69:PHE:HE1	1:H:102:CYS:SG	2.24	0.58
1:I:541:ILE:HD12	1:I:541:ILE:N	2.17	0.58
1:I:591:LYS:CE	1:I:591:LYS:HA	2.30	0.58
1:L:10:MET:HB2	1:L:11:PRO:HD3	1.85	0.58
1:M:157:LEU:N	1:M:157:LEU:HD12	2.18	0.58
1:M:399:THR:HB	1:M:402:VAL:HG22	1.82	0.58
1:A:164:ILE:HG23	1:A:165:GLY:N	2.19	0.58
1:C:117:ARG:HG3	1:C:118:PHE:CD1	2.39	0.58
1:C:306:GLU:O	1:C:321:HIS:HB3	2.03	0.58
1:D:240:LEU:HD22	1:D:418:ILE:HG22	1.86	0.58
1:E:114:PHE:HB2	1:E:117:ARG:HD2	1.86	0.58
1:E:170:HIS:CE1	1:E:174:HIS:HE2	2.21	0.58
1:E:404:THR:HG22	1:E:406:LEU:HD11	1.86	0.58
1:G:19:LEU:CD2	1:G:80:ARG:HB3	2.34	0.58
1:H:32:ARG:HG3	1:H:33:LEU:HD12	1.85	0.58
1:H:404:THR:HG22	1:H:406:LEU:HD11	1.86	0.58
1:H:408:LYS:NZ	1:H:408:LYS:HB2	2.17	0.58
1:J:10:MET:HB2	1:J:11:PRO:HD3	1.85	0.58
1:J:413:GLU:HB2	1:J:427:LYS:HE2	1.84	0.58
1:K:113:VAL:HG23	1:K:114:PHE:HD2	1.67	0.58
1:L:228:GLU:HA	1:L:228:GLU:OE1	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:119:VAL:HB	1:A:123:THR:HG21	1.84	0.58
1:A:228:GLU:OE1	1:A:228:GLU:HA	2.04	0.58
1:A:339:GLN:NE2	1:C:149:ASN:O	2.37	0.58
1:A:69:PHE:CE1	1:A:102:CYS:SG	2.96	0.58
1:C:208:TYR:HE2	1:C:220:MET:CG	2.16	0.58
1:C:17:THR:HG21	1:C:241:VAL:HA	1.86	0.58
1:C:404:THR:HG22	1:C:406:LEU:HD11	1.86	0.58
1:C:192:ARG:HH21	1:C:594:MET:HG3	1.69	0.58
1:D:170:HIS:CE1	1:D:174:HIS:HE2	2.20	0.58
1:D:12:LEU:HD13	1:D:76:CYS:SG	2.44	0.58
1:E:19:LEU:HD23	1:E:80:ARG:CG	2.34	0.58
1:E:558:THR:HG22	1:E:559:ASP:N	2.19	0.58
1:F:541:ILE:N	1:F:541:ILE:HD12	2.17	0.58
1:G:10:MET:HB2	1:G:11:PRO:HD3	1.85	0.58
1:G:228:GLU:OE1	1:G:228:GLU:HA	2.04	0.58
1:G:404:THR:HG22	1:G:406:LEU:HD11	1.86	0.58
1:I:114:PHE:HB2	1:I:117:ARG:HD2	1.86	0.58
1:I:228:GLU:HA	1:I:228:GLU:OE1	2.04	0.58
1:I:31:GLU:O	1:I:34:LYS:HG2	2.04	0.58
1:I:558:THR:HG22	1:I:559:ASP:N	2.19	0.58
1:K:157:LEU:N	1:K:157:LEU:HD12	2.18	0.58
1:K:59:LEU:O	1:K:63:LEU:HD13	2.02	0.58
1:L:117:ARG:HG3	1:L:118:PHE:CD1	2.39	0.58
1:L:212:ARG:HD2	1:L:220:MET:HG2	1.84	0.58
1:L:84:ASN:HD21	1:L:87:MET:HB2	1.68	0.58
1:A:114:PHE:HB2	1:A:117:ARG:HD2	1.86	0.58
1:C:404:THR:HG22	1:C:406:LEU:CD1	2.34	0.58
1:D:10:MET:HB2	1:D:11:PRO:HD3	1.85	0.58
1:F:157:LEU:N	1:F:157:LEU:HD12	2.18	0.58
1:F:606:THR:HG23	1:F:609:GLU:H	1.67	0.58
1:G:208:TYR:HE2	1:G:220:MET:CG	2.16	0.58
1:G:244:LEU:HB3	1:G:341:ASN:ND2	2.19	0.58
1:H:228:GLU:HA	1:H:228:GLU:OE1	2.04	0.58
1:I:49:HIS:HB3	1:I:52:HIS:HD2	1.68	0.58
1:K:111:GLN:HA	1:K:118:PHE:CE1	2.39	0.58
1:K:293:ASP:OD2	1:K:295:GLU:HB2	2.04	0.58
1:K:49:HIS:HB3	1:K:52:HIS:HD2	1.68	0.58
1:L:111:GLN:NE2	1:L:111:GLN:H	2.00	0.58
1:L:170:HIS:CE1	1:L:174:HIS:HE2	2.21	0.58
1:L:173:TRP:NE1	1:L:196:LEU:HD21	2.19	0.58
1:M:111:GLN:NE2	1:M:111:GLN:H	2.00	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:173:TRP:NE1	1:M:196:LEU:HD21	2.18	0.58
1:M:506:VAL:HG23	1:M:507:THR:CG2	2.31	0.58
1:A:157:LEU:N	1:A:157:LEU:HD12	2.18	0.58
1:A:200:MET:O	1:A:200:MET:HE2	2.04	0.58
1:A:404:THR:HG22	1:A:406:LEU:HD11	1.86	0.58
1:C:395:ILE:HD13	1:C:620:ILE:HG21	1.86	0.58
1:C:264:GLN:OE1	1:D:270:ARG:NH1	2.37	0.58
1:F:114:PHE:HB2	1:F:117:ARG:HD2	1.86	0.58
1:F:175:ILE:O	1:F:178:PRO:HD3	2.03	0.58
1:F:313:ASN:OD1	1:F:315:GLU:HG2	2.04	0.58
1:F:20:THR:CG2	1:F:41:ARG:HD3	2.20	0.58
1:F:49:HIS:HB3	1:F:52:HIS:HD2	1.68	0.58
1:G:117:ARG:HG3	1:G:118:PHE:CD1	2.39	0.58
1:G:408:LYS:HB2	1:G:408:LYS:HZ3	1.69	0.58
1:H:175:ILE:O	1:H:178:PRO:HD3	2.03	0.58
1:I:117:ARG:HG3	1:I:118:PHE:CD1	2.39	0.58
1:J:157:LEU:HD12	1:J:157:LEU:N	2.18	0.58
1:L:240:LEU:HD22	1:L:418:ILE:HG22	1.86	0.58
1:M:200:MET:HE2	1:M:200:MET:O	2.04	0.58
1:A:263:VAL:O	1:A:266:MET:HB2	2.03	0.58
1:C:281:TYR:HB2	1:C:289:LYS:HB3	1.85	0.58
1:C:558:THR:HG22	1:C:559:ASP:N	2.19	0.58
1:D:164:ILE:HG23	1:D:165:GLY:N	2.19	0.58
1:D:166:ILE:HD11	1:D:539:MET:CE	2.34	0.58
1:D:393:VAL:HG22	1:D:442:ILE:CD1	2.27	0.58
1:D:36:VAL:HG11	1:D:59:LEU:HD21	1.86	0.58
1:E:164:ILE:HG23	1:E:165:GLY:N	2.19	0.58
1:E:606:THR:HG23	1:E:609:GLU:H	1.67	0.58
1:F:208:TYR:HE2	1:F:220:MET:CG	2.16	0.58
1:H:164:ILE:HG23	1:H:165:GLY:N	2.19	0.58
1:H:166:ILE:HD11	1:H:539:MET:CE	2.34	0.58
1:H:173:TRP:O	1:H:176:VAL:HG22	2.02	0.58
1:H:192:ARG:HH21	1:H:594:MET:HG3	1.68	0.58
1:H:49:HIS:HB3	1:H:52:HIS:HD2	1.68	0.58
1:I:157:LEU:HD12	1:I:157:LEU:N	2.18	0.58
1:I:164:ILE:HG23	1:I:165:GLY:N	2.19	0.58
1:I:9:LEU:HD11	1:I:69:PHE:HZ	1.69	0.58
1:I:19:LEU:HD22	1:I:80:ARG:HD2	1.85	0.58
1:I:84:ASN:HD21	1:I:87:MET:HB2	1.68	0.58
1:J:114:PHE:HB2	1:J:117:ARG:HD2	1.86	0.58
1:J:14:LYS:NZ	1:J:14:LYS:HB2	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:404:THR:HG22	1:J:406:LEU:HD11	1.86	0.58
1:K:164:ILE:HG23	1:K:165:GLY:N	2.19	0.58
1:K:404:THR:HG22	1:K:406:LEU:CD1	2.34	0.58
1:L:164:ILE:HG23	1:L:165:GLY:N	2.19	0.58
1:L:193:LYS:HD3	1:L:310:GLU:OE2	2.04	0.58
1:M:208:TYR:HE2	1:M:220:MET:CG	2.16	0.58
1:C:113:VAL:HG23	1:C:114:PHE:HD2	1.67	0.57
1:C:49:HIS:HB3	1:C:52:HIS:HD2	1.68	0.57
1:D:114:PHE:HB2	1:D:117:ARG:HD2	1.86	0.57
1:D:228:GLU:HA	1:D:228:GLU:OE1	2.04	0.57
1:D:282:ILE:HG23	1:D:292:LEU:HD21	1.85	0.57
1:D:606:THR:HG23	1:D:609:GLU:H	1.67	0.57
1:E:228:GLU:HA	1:E:228:GLU:OE1	2.04	0.57
1:E:84:ASN:HD21	1:E:87:MET:HB2	1.68	0.57
1:F:12:LEU:HD13	1:F:76:CYS:SG	2.44	0.57
1:F:166:ILE:HD11	1:F:539:MET:CE	2.34	0.57
1:F:24:LEU:HD21	1:F:27:ASP:HA	1.86	0.57
1:G:282:ILE:HG23	1:G:292:LEU:HD21	1.85	0.57
1:H:117:ARG:HG3	1:H:118:PHE:CD1	2.39	0.57
1:J:111:GLN:NE2	1:J:111:GLN:H	2.01	0.57
1:J:117:ARG:HG3	1:J:118:PHE:CD1	2.39	0.57
1:J:164:ILE:HG23	1:J:165:GLY:N	2.19	0.57
1:J:404:THR:HG22	1:J:406:LEU:CD1	2.33	0.57
1:K:19:LEU:HD23	1:K:80:ARG:CG	2.34	0.57
1:K:59:LEU:HD12	1:K:87:MET:CG	2.30	0.57
1:L:19:LEU:HD23	1:L:80:ARG:CG	2.34	0.57
1:L:393:VAL:HG22	1:L:442:ILE:CD1	2.27	0.57
1:L:12:LEU:HD13	1:L:76:CYS:SG	2.44	0.57
1:A:12:LEU:HD13	1:A:76:CYS:SG	2.44	0.57
1:C:164:ILE:HG23	1:C:165:GLY:N	2.19	0.57
1:C:19:LEU:HD23	1:C:80:ARG:CG	2.34	0.57
1:C:20:THR:HG22	1:C:21:ARG:N	2.18	0.57
1:D:157:LEU:HD12	1:D:157:LEU:N	2.18	0.57
1:D:33:LEU:HD12	1:D:33:LEU:N	2.19	0.57
1:E:166:ILE:HD11	1:E:539:MET:CE	2.34	0.57
1:E:235:PRO:HB2	1:E:237:LEU:CD2	2.21	0.57
1:E:304:ILE:N	1:E:311:SER:HA	2.20	0.57
1:F:19:LEU:HD23	1:F:80:ARG:HB3	1.84	0.57
1:F:33:LEU:HD12	1:F:33:LEU:N	2.19	0.57
1:F:395:ILE:HD13	1:F:620:ILE:HG21	1.85	0.57
1:G:36:VAL:HG11	1:G:59:LEU:HD21	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:228:GLU:HA	1:J:228:GLU:OE1	2.04	0.57
1:J:467:LEU:HD23	1:J:470:LYS:HE3	1.85	0.57
1:K:404:THR:HG22	1:K:406:LEU:HD11	1.86	0.57
1:L:24:LEU:HD21	1:L:27:ASP:HA	1.86	0.57
1:M:10:MET:HB2	1:M:11:PRO:HD3	1.85	0.57
1:C:193:LYS:HD3	1:C:310:GLU:OE2	2.04	0.57
1:C:59:LEU:HD12	1:C:87:MET:CG	2.30	0.57
1:D:193:LYS:HD3	1:D:310:GLU:OE2	2.04	0.57
1:E:306:GLU:HG2	1:E:307:SER:H	1.70	0.57
1:E:583:ALA:HB3	1:E:586:ASP:HB3	1.86	0.57
1:G:24:LEU:HD21	1:G:27:ASP:HA	1.86	0.57
1:G:33:LEU:HD12	1:G:33:LEU:N	2.19	0.57
1:H:76:CYS:SG	1:H:88:PHE:CZ	2.97	0.57
1:I:166:ILE:HD11	1:I:539:MET:CE	2.35	0.57
1:J:173:TRP:NE1	1:J:196:LEU:HD21	2.18	0.57
1:J:337:ARG:HA	1:K:151:LEU:HD23	1.85	0.57
1:J:395:ILE:HD13	1:J:620:ILE:HG21	1.86	0.57
1:K:12:LEU:HD13	1:K:76:CYS:SG	2.44	0.57
1:M:114:PHE:HB2	1:M:117:ARG:HD2	1.86	0.57
1:M:166:ILE:HD11	1:M:539:MET:CE	2.34	0.57
1:M:228:GLU:OE1	1:M:228:GLU:HA	2.04	0.57
1:D:583:ALA:HB3	1:D:586:ASP:HB3	1.86	0.57
1:F:117:ARG:HG3	1:F:118:PHE:CD1	2.39	0.57
1:F:558:THR:HG22	1:F:559:ASP:N	2.19	0.57
1:G:164:ILE:HG23	1:G:165:GLY:N	2.19	0.57
1:G:558:THR:HG22	1:G:559:ASP:N	2.19	0.57
1:G:12:LEU:HD13	1:G:76:CYS:SG	2.44	0.57
1:H:113:VAL:HG23	1:H:114:PHE:N	2.20	0.57
1:I:282:ILE:HG23	1:I:292:LEU:HD21	1.85	0.57
1:J:166:ILE:HD11	1:J:539:MET:CE	2.34	0.57
1:J:558:THR:HG22	1:J:559:ASP:N	2.18	0.57
1:M:19:LEU:HD22	1:M:80:ARG:NH1	2.20	0.57
1:A:173:TRP:NE1	1:A:196:LEU:HD21	2.18	0.57
1:A:286:ASP:O	1:A:287:ASN:HB2	2.05	0.57
1:C:173:TRP:NE1	1:C:196:LEU:HD21	2.18	0.57
1:C:212:ARG:HD2	1:C:220:MET:HG2	1.85	0.57
1:C:19:LEU:HD23	1:C:80:ARG:HB3	1.84	0.57
1:C:84:ASN:HD21	1:C:87:MET:HB2	1.68	0.57
1:D:286:ASP:O	1:D:287:ASN:HB2	2.05	0.57
1:E:117:ARG:HG3	1:E:118:PHE:CD1	2.39	0.57
1:E:192:ARG:HH21	1:E:594:MET:HG3	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:193:LYS:HD3	1:F:310:GLU:OE2	2.04	0.57
1:F:228:GLU:OE1	1:F:228:GLU:HA	2.04	0.57
1:G:166:ILE:HD11	1:G:539:MET:CE	2.34	0.57
1:H:306:GLU:O	1:H:321:HIS:HB3	2.03	0.57
1:H:193:LYS:HD3	1:H:310:GLU:OE2	2.04	0.57
1:I:208:TYR:CE2	1:I:212:ARG:HD2	2.40	0.57
1:L:208:TYR:CE2	1:L:212:ARG:HD2	2.40	0.57
1:M:404:THR:HG22	1:M:406:LEU:HD11	1.86	0.57
1:E:113:VAL:HG23	1:E:114:PHE:N	2.20	0.57
1:E:282:ILE:HG23	1:E:292:LEU:HD21	1.85	0.57
1:G:113:VAL:HG23	1:G:114:PHE:N	2.20	0.57
1:G:114:PHE:HB2	1:G:117:ARG:HD2	1.86	0.57
1:I:64:TYR:CE1	1:I:98:HIS:HB2	2.40	0.57
1:J:113:VAL:HG23	1:J:114:PHE:N	2.20	0.57
1:J:583:ALA:HB3	1:J:586:ASP:HB3	1.86	0.57
1:K:228:GLU:HA	1:K:228:GLU:OE1	2.04	0.57
1:L:286:ASP:O	1:L:287:ASN:HB2	2.05	0.57
1:M:113:VAL:HG23	1:M:114:PHE:HD2	1.67	0.57
1:A:193:LYS:HD3	1:A:310:GLU:OE2	2.04	0.57
1:A:33:LEU:N	1:A:33:LEU:HD12	2.19	0.57
1:A:92:VAL:HG23	1:A:93:SER:N	2.19	0.57
1:C:228:GLU:HA	1:C:228:GLU:OE1	2.04	0.57
1:C:526:ASP:N	1:C:574:CYS:SG	2.78	0.57
1:D:151:LEU:HB2	1:E:337:ARG:HA	1.87	0.57
1:D:19:LEU:HD23	1:D:80:ARG:CG	2.34	0.57
1:E:208:TYR:CE2	1:E:212:ARG:HD2	2.40	0.57
1:H:172:HIS:NE2	1:H:532:SER:HB3	2.20	0.57
1:I:249:ARG:NH2	1:I:356:ILE:HD13	2.19	0.57
1:K:558:THR:HG22	1:K:559:ASP:N	2.19	0.57
1:L:36:VAL:HG11	1:L:59:LEU:HD21	1.86	0.57
1:L:92:VAL:HG23	1:L:93:SER:N	2.19	0.57
1:M:117:ARG:HG3	1:M:118:PHE:CD1	2.39	0.57
1:A:113:VAL:HG23	1:A:114:PHE:N	2.20	0.57
1:A:235:PRO:CB	1:A:237:LEU:HD23	2.19	0.57
1:A:242:SER:OG	1:A:244:LEU:HD13	2.05	0.57
1:C:166:ILE:HD11	1:C:539:MET:CE	2.34	0.57
1:C:208:TYR:CE2	1:C:212:ARG:HD2	2.40	0.57
1:C:92:VAL:HG23	1:C:93:SER:N	2.19	0.57
1:E:10:MET:HB2	1:E:11:PRO:HD3	1.85	0.57
1:F:113:VAL:HG23	1:F:114:PHE:N	2.20	0.57
1:F:19:LEU:HD23	1:F:80:ARG:CG	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:36:VAL:HG11	1:F:59:LEU:HD21	1.86	0.57
1:G:208:TYR:CE2	1:G:212:ARG:HD2	2.40	0.57
1:J:33:LEU:HD12	1:J:33:LEU:N	2.19	0.57
1:J:99:ARG:HD3	1:J:102:CYS:SG	2.45	0.57
1:K:286:ASP:O	1:K:287:ASN:HB2	2.05	0.57
1:L:313:ASN:OD1	1:L:315:GLU:HG2	2.04	0.57
1:M:33:LEU:HD12	1:M:33:LEU:N	2.19	0.57
1:A:19:LEU:HD23	1:A:80:ARG:CG	2.34	0.57
1:C:393:VAL:HG22	1:C:442:ILE:CD1	2.27	0.57
1:D:173:TRP:NE1	1:D:196:LEU:HD21	2.18	0.57
1:D:395:ILE:HD13	1:D:620:ILE:HG21	1.85	0.57
1:E:173:TRP:NE1	1:E:196:LEU:HD21	2.18	0.57
1:F:10:MET:HB2	1:F:11:PRO:HD3	1.85	0.57
1:F:173:TRP:NE1	1:F:196:LEU:HD21	2.18	0.57
1:I:583:ALA:HB3	1:I:586:ASP:HB3	1.86	0.57
1:J:208:TYR:CE2	1:J:212:ARG:HD2	2.40	0.57
1:J:540:LEU:HG	1:J:541:ILE:CD1	2.35	0.57
1:K:540:LEU:HG	1:K:541:ILE:CD1	2.35	0.57
1:M:113:VAL:HG23	1:M:114:PHE:N	2.20	0.57
1:M:164:ILE:HG23	1:M:165:GLY:N	2.19	0.57
1:M:208:TYR:CE2	1:M:212:ARG:HD2	2.40	0.57
1:M:583:ALA:HB3	1:M:586:ASP:HB3	1.86	0.57
1:D:117:ARG:HG3	1:D:118:PHE:CD1	2.39	0.57
1:D:208:TYR:CE2	1:D:212:ARG:HD2	2.40	0.57
1:E:92:VAL:HG23	1:E:93:SER:N	2.19	0.57
1:G:282:ILE:CG1	1:G:290:ILE:HG12	2.35	0.57
1:G:89:VAL:O	1:G:93:SER:HB2	2.05	0.57
1:H:64:TYR:CE1	1:H:98:HIS:HB2	2.40	0.57
1:H:92:VAL:HG23	1:H:93:SER:N	2.19	0.57
1:J:282:ILE:CG1	1:J:290:ILE:HG12	2.35	0.57
1:K:33:LEU:HD12	1:K:33:LEU:N	2.19	0.57
1:K:486:PHE:HB3	1:K:499:ARG:NH2	2.20	0.57
1:L:114:PHE:HB2	1:L:117:ARG:HD2	1.86	0.57
1:L:282:ILE:CG1	1:L:290:ILE:HG12	2.35	0.57
1:L:297:GLY:O	1:L:300:ILE:HG12	2.05	0.57
1:L:33:LEU:HD12	1:L:33:LEU:N	2.19	0.57
1:L:395:ILE:HD13	1:L:620:ILE:HG21	1.85	0.57
1:M:286:ASP:O	1:M:287:ASN:HB2	2.05	0.57
1:M:64:TYR:CE1	1:M:98:HIS:HB2	2.40	0.57
1:C:486:PHE:HB3	1:C:499:ARG:NH2	2.20	0.56
1:E:12:LEU:HD13	1:E:76:CYS:SG	2.44	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:164:ILE:HG23	1:F:165:GLY:N	2.19	0.56
1:G:110:ILE:O	1:G:113:VAL:HG22	2.05	0.56
1:G:19:LEU:HD22	1:G:80:ARG:NH1	2.20	0.56
1:G:193:LYS:HD3	1:G:310:GLU:OE2	2.04	0.56
1:G:64:TYR:CE1	1:G:98:HIS:HB2	2.40	0.56
1:H:395:ILE:HD13	1:H:620:ILE:HG21	1.85	0.56
1:I:193:LYS:HD3	1:I:310:GLU:OE2	2.04	0.56
1:I:395:ILE:HD13	1:I:620:ILE:HG21	1.86	0.56
1:J:212:ARG:CZ	1:J:220:MET:HE3	2.34	0.56
1:J:297:GLY:O	1:J:300:ILE:HG12	2.05	0.56
1:J:64:TYR:CE2	1:J:98:HIS:HB2	2.40	0.56
1:K:506:VAL:HG23	1:K:507:THR:CG2	2.31	0.56
1:K:60:TYR:HE1	1:K:94:VAL:HG21	1.70	0.56
1:K:395:ILE:HD13	1:K:620:ILE:HG21	1.85	0.56
1:L:340:GLU:OE1	1:M:248:SER:OG	2.20	0.56
1:M:282:ILE:CG1	1:M:290:ILE:HG12	2.35	0.56
1:M:193:LYS:HD3	1:M:310:GLU:OE2	2.04	0.56
1:A:166:ILE:HD11	1:A:539:MET:CE	2.34	0.56
1:C:110:ILE:O	1:C:113:VAL:HG22	2.05	0.56
1:C:257:ASP:OD1	1:C:262:ASP:HB2	2.06	0.56
1:C:525:GLU:N	1:C:574:CYS:SG	2.78	0.56
1:D:282:ILE:CG1	1:D:290:ILE:HG12	2.35	0.56
1:E:301:LEU:CD1	1:E:304:ILE:HD12	2.35	0.56
1:E:33:LEU:N	1:E:33:LEU:HD12	2.19	0.56
1:F:59:LEU:HD12	1:F:87:MET:CG	2.30	0.56
1:G:192:ARG:HH21	1:G:594:MET:HG3	1.68	0.56
1:G:583:ALA:HB3	1:G:586:ASP:HB3	1.86	0.56
1:G:395:ILE:HD13	1:G:620:ILE:HG21	1.85	0.56
1:H:208:TYR:CE2	1:H:212:ARG:HD2	2.40	0.56
1:H:282:ILE:CG1	1:H:290:ILE:HG12	2.35	0.56
1:K:114:PHE:HB2	1:K:117:ARG:HD2	1.86	0.56
1:K:92:VAL:HG23	1:K:93:SER:N	2.19	0.56
1:L:558:THR:HG22	1:L:559:ASP:N	2.18	0.56
1:M:12:LEU:HD13	1:M:76:CYS:SG	2.44	0.56
1:M:89:VAL:O	1:M:93:SER:HB2	2.05	0.56
1:A:540:LEU:HG	1:A:541:ILE:CD1	2.35	0.56
1:A:583:ALA:HB3	1:A:586:ASP:HB3	1.86	0.56
1:C:113:VAL:HG23	1:C:114:PHE:N	2.20	0.56
1:C:114:PHE:HB2	1:C:117:ARG:HD2	1.86	0.56
1:D:92:VAL:HG23	1:D:93:SER:N	2.19	0.56
1:E:19:LEU:HD23	1:E:80:ARG:CB	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:583:ALA:HB3	1:F:586:ASP:HB3	1.86	0.56
1:F:192:ARG:HH21	1:F:594:MET:HG3	1.68	0.56
1:G:39:LEU:HD12	1:G:40:PRO:HD2	1.87	0.56
1:H:114:PHE:HB2	1:H:117:ARG:HD2	1.86	0.56
1:I:242:SER:OG	1:I:244:LEU:HD13	2.05	0.56
1:I:407:ILE:C	1:I:407:ILE:HD13	2.26	0.56
1:K:110:ILE:O	1:K:113:VAL:HG22	2.05	0.56
1:K:282:ILE:HG23	1:K:292:LEU:CD1	2.32	0.56
1:K:583:ALA:HB3	1:K:586:ASP:HB3	1.86	0.56
1:L:486:PHE:HB3	1:L:499:ARG:NH2	2.20	0.56
1:M:33:LEU:CD2	1:M:79:ALA:HB2	2.36	0.56
1:A:282:ILE:CG1	1:A:290:ILE:HG12	2.35	0.56
1:A:486:PHE:HB3	1:A:499:ARG:NH2	2.20	0.56
1:D:110:ILE:O	1:D:113:VAL:HG22	2.05	0.56
1:D:407:ILE:HD13	1:D:407:ILE:C	2.26	0.56
1:E:24:LEU:HD21	1:E:27:ASP:HA	1.87	0.56
1:E:282:ILE:CG1	1:E:290:ILE:HG12	2.35	0.56
1:E:286:ASP:O	1:E:287:ASN:HB2	2.05	0.56
1:E:486:PHE:HB3	1:E:499:ARG:NH2	2.20	0.56
1:F:110:ILE:O	1:F:113:VAL:HG22	2.05	0.56
1:F:39:LEU:HD12	1:F:40:PRO:HD2	1.87	0.56
1:I:240:LEU:HD23	1:I:241:VAL:N	2.20	0.56
1:K:591:LYS:CE	1:K:591:LYS:HA	2.31	0.56
1:L:113:VAL:HG23	1:L:114:PHE:N	2.20	0.56
1:L:583:ALA:HB3	1:L:586:ASP:HB3	1.86	0.56
1:A:208:TYR:CE2	1:A:212:ARG:HD2	2.40	0.56
1:A:587:ARG:O	1:A:589:PRO:HD3	2.06	0.56
1:C:591:LYS:HA	1:C:591:LYS:CE	2.31	0.56
1:D:160:PHE:CD2	1:D:539:MET:HE3	2.41	0.56
1:D:24:LEU:HD21	1:D:27:ASP:HA	1.87	0.56
1:D:363:PHE:HA	1:D:366:ASN:HD22	1.71	0.56
1:D:39:LEU:HD12	1:D:40:PRO:HD2	1.88	0.56
1:D:486:PHE:HB3	1:D:499:ARG:NH2	2.20	0.56
1:F:208:TYR:CE2	1:F:212:ARG:HD2	2.40	0.56
1:F:404:THR:HG22	1:F:406:LEU:HD11	1.86	0.56
1:J:33:LEU:CD2	1:J:79:ALA:HB2	2.36	0.56
1:K:208:TYR:CE2	1:K:212:ARG:HD2	2.40	0.56
1:M:407:ILE:C	1:M:407:ILE:HD13	2.26	0.56
1:A:297:GLY:O	1:A:300:ILE:HG12	2.05	0.56
1:A:605:ARG:HH22	1:E:38:ILE:HG22	1.71	0.56
1:C:286:ASP:O	1:C:287:ASN:HB2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:64:TYR:CE1	1:C:98:HIS:HB2	2.40	0.56
1:C:19:LEU:HD23	1:C:80:ARG:CB	2.36	0.56
1:F:363:PHE:HA	1:F:366:ASN:HD22	1.71	0.56
1:G:437:PRO:HB3	1:G:501:HIS:NE2	2.21	0.56
1:I:110:ILE:O	1:I:113:VAL:HG22	2.05	0.56
1:J:110:ILE:O	1:J:113:VAL:HG22	2.05	0.56
1:J:193:LYS:HD3	1:J:310:GLU:OE2	2.04	0.56
1:J:486:PHE:HB3	1:J:499:ARG:NH2	2.20	0.56
1:L:166:ILE:HD11	1:L:539:MET:CE	2.34	0.56
1:L:39:LEU:HD12	1:L:40:PRO:HD2	1.87	0.56
1:M:192:ARG:HH21	1:M:594:MET:HG3	1.69	0.56
1:A:192:ARG:HH21	1:A:594:MET:HG3	1.68	0.56
1:C:282:ILE:HD11	1:C:312:LYS:HB2	1.88	0.56
1:C:540:LEU:HG	1:C:541:ILE:CD1	2.35	0.56
1:D:48:PHE:HD1	1:D:322:ASN:OD1	1.89	0.56
1:F:282:ILE:CG1	1:F:290:ILE:HG12	2.35	0.56
1:G:407:ILE:C	1:G:407:ILE:HD13	2.26	0.56
1:I:48:PHE:HD1	1:I:322:ASN:OD1	1.89	0.56
1:I:605:ARG:NH2	1:L:38:ILE:CG2	2.69	0.56
1:J:201:HIS:HA	1:J:204:MET:HE2	1.88	0.56
1:K:282:ILE:CG1	1:K:290:ILE:HG12	2.35	0.56
1:M:44:LEU:HD12	1:M:44:LEU:N	2.21	0.56
1:A:303:ASP:OD1	1:A:304:ILE:HG13	2.06	0.56
1:A:407:ILE:C	1:A:407:ILE:HD13	2.26	0.56
1:A:620:ILE:N	1:A:620:ILE:HD13	2.19	0.56
1:C:300:ILE:HG13	1:C:301:LEU:N	2.21	0.56
1:C:48:PHE:HD1	1:C:322:ASN:OD1	1.89	0.56
1:C:437:PRO:HB3	1:C:501:HIS:NE2	2.21	0.56
1:D:540:LEU:HG	1:D:541:ILE:CD1	2.35	0.56
1:E:39:LEU:HD12	1:E:40:PRO:HD2	1.88	0.56
1:E:587:ARG:O	1:E:589:PRO:HD3	2.06	0.56
1:F:200:MET:O	1:F:200:MET:HE2	2.05	0.56
1:F:19:LEU:HD23	1:F:80:ARG:CB	2.36	0.56
1:G:303:ASP:OD1	1:G:304:ILE:HG13	2.06	0.56
1:G:48:PHE:HD1	1:G:322:ASN:OD1	1.89	0.56
1:G:383:LEU:HD13	1:G:615:MET:HE1	1.87	0.56
1:H:110:ILE:O	1:H:113:VAL:HG22	2.05	0.56
1:H:1:THR:HG23	1:H:4:ASP:H	1.71	0.56
1:I:404:THR:HG22	1:I:406:LEU:HD11	1.86	0.56
1:J:437:PRO:HB3	1:J:501:HIS:NE2	2.21	0.56
1:J:587:ARG:O	1:J:589:PRO:HD3	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:113:VAL:HG23	1:K:114:PHE:N	2.20	0.56
1:K:166:ILE:HD11	1:K:539:MET:CE	2.34	0.56
1:L:300:ILE:HG13	1:L:301:LEU:N	2.21	0.56
1:M:1:THR:HG23	1:M:4:ASP:H	1.71	0.56
1:M:24:LEU:HD21	1:M:27:ASP:HA	1.86	0.56
1:A:110:ILE:O	1:A:113:VAL:HG22	2.05	0.56
1:A:172:HIS:NE2	1:A:532:SER:HB3	2.20	0.56
1:A:240:LEU:HD23	1:A:241:VAL:N	2.21	0.56
1:A:20:THR:CG2	1:A:41:ARG:HD3	2.20	0.56
1:C:20:THR:CG2	1:C:41:ARG:HD3	2.20	0.56
1:C:467:LEU:HG	1:G:149:ASN:OD1	2.06	0.56
1:C:476:GLN:OE1	1:C:607:ALA:HB2	2.06	0.56
1:C:60:TYR:HD1	1:C:94:VAL:HB	1.71	0.56
1:D:44:LEU:N	1:D:44:LEU:HD12	2.21	0.56
1:D:49:HIS:HB3	1:D:52:HIS:HD2	1.69	0.56
1:E:48:PHE:HD1	1:E:322:ASN:OD1	1.89	0.56
1:E:623:LYS:O	1:E:623:LYS:HG3	2.06	0.56
1:F:201:HIS:HA	1:F:204:MET:HE2	1.88	0.56
1:F:92:VAL:HG23	1:F:93:SER:N	2.19	0.56
1:G:33:LEU:CD2	1:G:79:ALA:HB2	2.36	0.56
1:I:10:MET:HB2	1:I:11:PRO:HD3	1.87	0.56
1:I:192:ARG:HH21	1:I:594:MET:HG3	1.69	0.56
1:I:92:VAL:HG23	1:I:93:SER:N	2.19	0.56
1:J:303:ASP:OD1	1:J:304:ILE:HG13	2.06	0.56
1:J:363:PHE:HA	1:J:366:ASN:HD22	1.71	0.56
1:K:393:VAL:HG22	1:K:442:ILE:CD1	2.27	0.56
1:K:437:PRO:HB3	1:K:501:HIS:NE2	2.21	0.56
1:L:172:HIS:NE2	1:L:532:SER:HB3	2.20	0.56
1:M:110:ILE:O	1:M:113:VAL:HG22	2.05	0.56
1:M:297:GLY:O	1:M:300:ILE:HG12	2.05	0.56
1:M:41:ARG:HA	1:M:84:ASN:CB	2.19	0.56
1:M:437:PRO:HB3	1:M:501:HIS:NE2	2.21	0.56
1:M:19:LEU:CD2	1:M:80:ARG:HB3	2.34	0.56
1:A:300:ILE:HG13	1:A:301:LEU:N	2.21	0.56
1:C:44:LEU:N	1:C:44:LEU:HD12	2.21	0.56
1:D:313:ASN:OD1	1:D:315:GLU:HG2	2.06	0.56
1:D:60:TYR:HD1	1:D:94:VAL:HB	1.71	0.56
1:E:300:ILE:HG13	1:E:301:LEU:N	2.21	0.56
1:E:407:ILE:HD13	1:E:407:ILE:C	2.26	0.56
1:G:304:ILE:O	1:G:307:SER:HB3	2.06	0.56
1:H:437:PRO:HB3	1:H:501:HIS:NE2	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:583:ALA:HB3	1:H:586:ASP:HB3	1.86	0.56
1:H:77:GLU:HA	1:H:80:ARG:NH2	2.20	0.56
1:I:166:ILE:HD11	1:I:539:MET:HE2	1.87	0.56
1:J:480:PHE:CE2	1:J:598:PHE:CE1	2.94	0.56
1:J:36:VAL:HG11	1:J:59:LEU:HD21	1.86	0.56
1:J:620:ILE:N	1:J:620:ILE:HD13	2.20	0.56
1:K:24:LEU:HD21	1:K:27:ASP:HA	1.87	0.56
1:K:44:LEU:HD12	1:K:44:LEU:N	2.21	0.56
1:M:393:VAL:HG22	1:M:442:ILE:CD1	2.27	0.56
1:A:19:LEU:HD23	1:A:80:ARG:CB	2.36	0.56
1:A:24:LEU:HD21	1:A:27:ASP:HA	1.86	0.56
1:A:304:ILE:O	1:A:307:SER:HB3	2.06	0.56
1:A:363:PHE:HA	1:A:366:ASN:HD22	1.71	0.56
1:C:303:ASP:OD1	1:C:304:ILE:HG13	2.06	0.56
1:C:620:ILE:N	1:C:620:ILE:HD13	2.20	0.56
1:D:166:ILE:CG2	1:D:352:LEU:HD13	2.36	0.56
1:D:303:ASP:OD1	1:D:304:ILE:HG13	2.06	0.56
1:E:110:ILE:O	1:E:113:VAL:HG22	2.05	0.56
1:F:297:GLY:O	1:F:300:ILE:HG12	2.05	0.56
1:F:508:ILE:O	1:F:508:ILE:HG23	2.07	0.56
1:G:286:ASP:O	1:G:287:ASN:HB2	2.05	0.56
1:H:303:ASP:OD1	1:H:304:ILE:HG13	2.06	0.56
1:H:508:ILE:HG23	1:H:508:ILE:O	2.06	0.56
1:H:125:ASN:ND2	1:I:242:SER:O	2.38	0.56
1:I:286:ASP:O	1:I:287:ASN:HB2	2.05	0.56
1:I:300:ILE:HG13	1:I:301:LEU:N	2.21	0.56
1:K:142:VAL:HB	1:K:428:VAL:HG23	1.88	0.56
1:K:512:ARG:HB3	1:K:516:GLN:HB2	1.88	0.56
1:L:407:ILE:C	1:L:407:ILE:HD13	2.26	0.56
1:L:587:ARG:O	1:L:589:PRO:HD3	2.06	0.56
1:A:235:PRO:O	1:A:237:LEU:HD22	2.06	0.55
1:A:480:PHE:CE2	1:A:598:PHE:CE1	2.94	0.55
1:D:113:VAL:HG23	1:D:114:PHE:N	2.20	0.55
1:D:304:ILE:O	1:D:307:SER:HB3	2.06	0.55
1:D:587:ARG:O	1:D:589:PRO:HD3	2.06	0.55
1:E:292:LEU:HA	1:E:300:ILE:HD13	1.88	0.55
1:E:49:HIS:O	1:E:53:LEU:HG	2.06	0.55
1:F:480:PHE:CE2	1:F:598:PHE:CE1	2.94	0.55
1:G:297:GLY:O	1:G:300:ILE:HG12	2.05	0.55
1:G:363:PHE:HA	1:G:366:ASN:HD22	1.71	0.55
1:G:44:LEU:N	1:G:44:LEU:HD12	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:304:ILE:O	1:H:307:SER:HB3	2.06	0.55
1:I:282:ILE:CG1	1:I:290:ILE:HG12	2.35	0.55
1:I:363:PHE:HA	1:I:366:ASN:HD22	1.71	0.55
1:J:1:THR:HG23	1:J:4:ASP:H	1.71	0.55
1:J:300:ILE:HG13	1:J:301:LEU:N	2.21	0.55
1:J:476:GLN:OE1	1:J:607:ALA:HB2	2.06	0.55
1:J:89:VAL:O	1:J:93:SER:HB2	2.05	0.55
1:K:49:HIS:O	1:K:53:LEU:HG	2.06	0.55
1:M:300:ILE:HG13	1:M:301:LEU:N	2.21	0.55
1:A:545:SER:O	1:A:623:LYS:HA	2.07	0.55
1:C:407:ILE:HD13	1:C:407:ILE:C	2.26	0.55
1:D:235:PRO:O	1:D:237:LEU:HD22	2.06	0.55
1:E:166:ILE:HD11	1:E:539:MET:HG3	1.89	0.55
1:F:303:ASP:OD1	1:F:304:ILE:HG13	2.06	0.55
1:G:300:ILE:HG13	1:G:301:LEU:N	2.21	0.55
1:G:8:ARG:HH22	1:G:70:ASN:HA	1.71	0.55
1:H:286:ASP:O	1:H:287:ASN:HB2	2.05	0.55
1:H:297:GLY:O	1:H:300:ILE:HG12	2.05	0.55
1:H:48:PHE:HD1	1:H:322:ASN:OD1	1.89	0.55
1:I:297:GLY:O	1:I:300:ILE:HG12	2.05	0.55
1:I:463:LYS:HE2	1:I:469:ASN:OD1	2.05	0.55
1:I:480:PHE:CE2	1:I:598:PHE:CE1	2.94	0.55
1:I:486:PHE:HB3	1:I:499:ARG:NH2	2.20	0.55
1:I:60:TYR:HD1	1:I:94:VAL:HB	1.71	0.55
1:J:113:VAL:HG23	1:J:114:PHE:HD2	1.67	0.55
1:J:59:LEU:HD11	1:J:87:MET:SD	2.46	0.55
1:K:235:PRO:O	1:K:237:LEU:HD22	2.06	0.55
1:K:407:ILE:HD13	1:K:407:ILE:C	2.26	0.55
1:K:558:THR:HG21	1:K:592:LYS:NZ	2.22	0.55
1:K:19:LEU:HD23	1:K:80:ARG:CB	2.36	0.55
1:L:110:ILE:O	1:L:113:VAL:HG22	2.05	0.55
1:L:304:ILE:O	1:L:307:SER:HB3	2.06	0.55
1:L:506:VAL:HG23	1:L:507:THR:CG2	2.31	0.55
1:A:166:ILE:CG2	1:A:352:LEU:HD13	2.36	0.55
1:A:476:GLN:OE1	1:A:607:ALA:HB2	2.06	0.55
1:C:172:HIS:NE2	1:C:532:SER:HB3	2.20	0.55
1:C:49:HIS:O	1:C:53:LEU:HG	2.06	0.55
1:D:19:LEU:HD23	1:D:80:ARG:CB	2.36	0.55
1:E:235:PRO:O	1:E:237:LEU:HD22	2.06	0.55
1:E:363:PHE:HA	1:E:366:ASN:HD22	1.71	0.55
1:E:558:THR:HG21	1:E:592:LYS:NZ	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:44:LEU:HD22	1:F:342:PRO:HD2	1.88	0.55
1:F:1:THR:HG23	1:F:4:ASP:H	1.71	0.55
1:G:476:GLN:OE1	1:G:607:ALA:HB2	2.06	0.55
1:G:59:LEU:HD11	1:G:87:MET:SD	2.46	0.55
1:H:486:PHE:HB3	1:H:499:ARG:NH2	2.20	0.55
1:H:166:ILE:HD11	1:H:539:MET:HG3	1.88	0.55
1:H:60:TYR:HD1	1:H:94:VAL:HB	1.71	0.55
1:I:235:PRO:O	1:I:237:LEU:HD22	2.06	0.55
1:J:286:ASP:O	1:J:287:ASN:HB2	2.05	0.55
1:J:39:LEU:HD12	1:J:40:PRO:HD2	1.88	0.55
1:J:41:ARG:HA	1:J:84:ASN:CB	2.19	0.55
1:K:526:ASP:OD2	1:K:573:VAL:CG2	2.54	0.55
1:M:486:PHE:HB3	1:M:499:ARG:NH2	2.20	0.55
1:M:558:THR:HG21	1:M:592:LYS:NZ	2.22	0.55
1:C:166:ILE:CG2	1:C:352:LEU:HD13	2.37	0.55
1:C:235:PRO:O	1:C:237:LEU:HD22	2.06	0.55
1:D:297:GLY:O	1:D:300:ILE:HG12	2.05	0.55
1:D:49:HIS:O	1:D:53:LEU:HG	2.07	0.55
1:E:44:LEU:HD22	1:E:342:PRO:HD2	1.89	0.55
1:E:476:GLN:OE1	1:E:607:ALA:HB2	2.06	0.55
1:E:60:TYR:HE1	1:E:94:VAL:HG21	1.71	0.55
1:F:407:ILE:HD13	1:F:407:ILE:C	2.26	0.55
1:F:93:SER:OG	1:F:528:THR:HG21	2.06	0.55
1:G:166:ILE:HD11	1:G:539:MET:HG3	1.89	0.55
1:G:235:PRO:O	1:G:237:LEU:HD22	2.06	0.55
1:G:30:ASP:HB3	1:G:33:LEU:HB2	1.89	0.55
1:G:486:PHE:HB3	1:G:499:ARG:NH2	2.20	0.55
1:G:1:THR:HG23	1:G:4:ASP:H	1.71	0.55
1:H:49:HIS:O	1:H:53:LEU:HG	2.06	0.55
1:H:8:ARG:HH22	1:H:70:ASN:HA	1.71	0.55
1:I:166:ILE:CG2	1:I:352:LEU:HD13	2.36	0.55
1:I:304:ILE:O	1:I:307:SER:HB3	2.06	0.55
1:I:437:PRO:HB3	1:I:501:HIS:NE2	2.21	0.55
1:J:44:LEU:HD12	1:J:44:LEU:N	2.21	0.55
1:K:383:LEU:HD13	1:K:615:MET:HE1	1.88	0.55
1:L:1:THR:HG23	1:L:4:ASP:H	1.71	0.55
1:L:545:SER:O	1:L:623:LYS:HA	2.07	0.55
1:M:44:LEU:HD22	1:M:342:PRO:HD2	1.89	0.55
1:M:48:PHE:HD1	1:M:322:ASN:OD1	1.89	0.55
1:M:512:ARG:HB3	1:M:516:GLN:HB2	1.88	0.55
1:C:304:ILE:O	1:C:307:SER:HB3	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:363:PHE:HA	1:C:366:ASN:HD22	1.71	0.55
1:C:508:ILE:HG23	1:C:508:ILE:O	2.07	0.55
1:C:623:LYS:O	1:C:623:LYS:HG3	2.06	0.55
1:D:30:ASP:HB3	1:D:33:LEU:HB2	1.89	0.55
1:D:437:PRO:HB3	1:D:501:HIS:NE2	2.21	0.55
1:D:59:LEU:HD12	1:D:87:MET:CG	2.30	0.55
1:D:545:SER:O	1:D:623:LYS:HA	2.07	0.55
1:E:480:PHE:CE2	1:E:598:PHE:CE1	2.94	0.55
1:E:60:TYR:HD1	1:E:94:VAL:HB	1.71	0.55
1:F:486:PHE:HB3	1:F:499:ARG:NH2	2.20	0.55
1:F:60:TYR:HD1	1:F:94:VAL:HB	1.71	0.55
1:G:166:ILE:CG2	1:G:352:LEU:HD13	2.37	0.55
1:G:480:PHE:CE2	1:G:598:PHE:CE1	2.94	0.55
1:H:300:ILE:HG13	1:H:301:LEU:N	2.21	0.55
1:I:303:ASP:OD1	1:I:304:ILE:HG13	2.06	0.55
1:J:331:ILE:HG23	1:J:332:THR:N	2.22	0.55
1:J:44:LEU:HD22	1:J:342:PRO:HD2	1.88	0.55
1:K:44:LEU:HD22	1:K:342:PRO:HD2	1.88	0.55
1:K:480:PHE:CE2	1:K:598:PHE:CE1	2.94	0.55
1:K:545:SER:O	1:K:623:LYS:HA	2.07	0.55
1:L:383:LEU:HD13	1:L:615:MET:HE1	1.89	0.55
1:M:304:ILE:O	1:M:307:SER:HB3	2.06	0.55
1:A:113:VAL:HG23	1:A:114:PHE:HD2	1.67	0.55
1:A:393:VAL:HG22	1:A:442:ILE:CD1	2.27	0.55
1:C:8:ARG:HH22	1:C:70:ASN:HA	1.72	0.55
1:D:476:GLN:OE1	1:D:607:ALA:HB2	2.06	0.55
1:D:60:TYR:HE1	1:D:94:VAL:HG21	1.71	0.55
1:D:64:TYR:CE1	1:D:98:HIS:HB2	2.41	0.55
1:E:331:ILE:HG23	1:E:332:THR:N	2.22	0.55
1:E:437:PRO:HB3	1:E:501:HIS:NE2	2.21	0.55
1:F:44:LEU:HD12	1:F:44:LEU:N	2.21	0.55
1:F:166:ILE:HD11	1:F:539:MET:HG3	1.89	0.55
1:F:64:TYR:CE1	1:F:98:HIS:HB2	2.41	0.55
1:G:97:LEU:HG	1:G:527:SER:HB3	1.87	0.55
1:H:166:ILE:CG2	1:H:352:LEU:HD13	2.36	0.55
1:H:407:ILE:HD13	1:H:407:ILE:C	2.26	0.55
1:H:512:ARG:HB3	1:H:516:GLN:HB2	1.88	0.55
1:H:160:PHE:CD2	1:H:539:MET:HE3	2.42	0.55
1:I:113:VAL:HG23	1:I:114:PHE:N	2.20	0.55
1:I:44:LEU:HD12	1:I:44:LEU:N	2.21	0.55
1:J:545:SER:O	1:J:623:LYS:HA	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:48:PHE:HD1	1:K:322:ASN:OD1	1.89	0.55
1:K:508:ILE:HG23	1:K:508:ILE:O	2.07	0.55
1:L:480:PHE:CE2	1:L:598:PHE:CE1	2.94	0.55
1:L:166:ILE:HD11	1:L:539:MET:HG3	1.89	0.55
1:M:166:ILE:CG2	1:M:352:LEU:HD13	2.37	0.55
1:M:587:ARG:O	1:M:589:PRO:HD3	2.06	0.55
1:C:480:PHE:CE2	1:C:598:PHE:CE1	2.95	0.55
1:D:480:PHE:CE2	1:D:598:PHE:CE1	2.94	0.55
1:D:1:THR:HG23	1:D:4:ASP:H	1.71	0.55
1:E:64:TYR:CE1	1:E:98:HIS:HB2	2.42	0.55
1:E:8:ARG:HH22	1:E:70:ASN:HA	1.72	0.55
1:E:151:LEU:HD13	1:F:467:LEU:HD11	1.89	0.55
1:F:558:THR:HG21	1:F:592:LYS:NZ	2.22	0.55
1:F:623:LYS:HG3	1:F:623:LYS:O	2.06	0.55
1:H:480:PHE:CE2	1:H:598:PHE:CE1	2.94	0.55
1:H:558:THR:HG21	1:H:592:LYS:NZ	2.22	0.55
1:H:587:ARG:O	1:H:589:PRO:HD3	2.06	0.55
1:I:198:PHE:CD1	1:I:368:PHE:CG	2.95	0.55
1:K:17:THR:HG21	1:K:241:VAL:HA	1.88	0.55
1:K:166:ILE:HD11	1:K:539:MET:HG3	1.88	0.55
1:K:587:ARG:O	1:K:589:PRO:HD3	2.06	0.55
1:L:200:MET:HE2	1:L:200:MET:O	2.06	0.55
1:L:303:ASP:OD1	1:L:304:ILE:HG13	2.06	0.55
1:L:331:ILE:HG23	1:L:332:THR:N	2.22	0.55
1:L:476:GLN:OE1	1:L:607:ALA:HB2	2.06	0.55
1:M:59:LEU:HD11	1:M:87:MET:SD	2.46	0.55
1:A:44:LEU:HD22	1:A:342:PRO:HD2	1.88	0.55
1:A:623:LYS:HG3	1:A:623:LYS:O	2.06	0.55
1:C:198:PHE:CD1	1:C:368:PHE:CG	2.95	0.55
1:C:2:VAL:HG11	1:C:525:GLU:HG2	1.88	0.55
1:C:1:THR:HG23	1:C:4:ASP:H	1.71	0.55
1:C:558:THR:HG21	1:C:592:LYS:NZ	2.21	0.55
1:D:8:ARG:HH22	1:D:70:ASN:HA	1.71	0.55
1:E:166:ILE:CG2	1:E:352:LEU:HD13	2.36	0.55
1:E:44:LEU:HD12	1:E:44:LEU:N	2.21	0.55
1:F:437:PRO:HB3	1:F:501:HIS:NE2	2.21	0.55
1:F:540:LEU:HG	1:F:541:ILE:CD1	2.35	0.55
1:F:587:ARG:O	1:F:589:PRO:HD3	2.06	0.55
1:F:545:SER:O	1:F:623:LYS:HA	2.07	0.55
1:G:540:LEU:HG	1:G:541:ILE:CD1	2.35	0.55
1:H:119:VAL:HG23	1:H:124:ILE:CG1	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:201:HIS:HA	1:H:204:MET:HE2	1.88	0.55
1:H:623:LYS:O	1:H:623:LYS:HG3	2.06	0.55
1:I:75:LEU:HD12	1:I:75:LEU:O	2.07	0.55
1:I:60:TYR:HE1	1:I:94:VAL:HG21	1.70	0.55
1:J:304:ILE:O	1:J:307:SER:HB3	2.06	0.55
1:J:508:ILE:O	1:J:508:ILE:HG23	2.07	0.55
1:K:303:ASP:OD1	1:K:304:ILE:HG13	2.06	0.55
1:L:437:PRO:HB3	1:L:501:HIS:NE2	2.21	0.55
1:M:540:LEU:HG	1:M:541:ILE:CD1	2.35	0.55
1:A:266:MET:SD	1:A:323:TRP:HB2	2.47	0.55
1:A:1:THR:HG23	1:A:4:ASP:H	1.71	0.55
1:D:75:LEU:O	1:D:75:LEU:HD12	2.07	0.55
1:F:48:PHE:HD1	1:F:322:ASN:OD1	1.89	0.55
1:F:30:ASP:HB3	1:F:33:LEU:HB2	1.89	0.55
1:F:476:GLN:OE1	1:F:607:ALA:HB2	2.06	0.55
1:J:166:ILE:CG2	1:J:352:LEU:HD13	2.37	0.55
1:J:237:LEU:O	1:J:245:GLN:HB2	2.06	0.55
1:J:48:PHE:HD1	1:J:322:ASN:OD1	1.89	0.55
1:K:98:HIS:HD2	1:K:188:LYS:NZ	2.05	0.55
1:L:48:PHE:HD1	1:L:322:ASN:OD1	1.89	0.55
1:L:49:HIS:O	1:L:53:LEU:HG	2.06	0.55
1:L:558:THR:HG21	1:L:592:LYS:NZ	2.22	0.55
1:M:303:ASP:OD1	1:M:304:ILE:HG13	2.06	0.55
1:M:545:SER:O	1:M:623:LYS:HA	2.07	0.55
1:A:2:VAL:HG11	1:A:525:GLU:HG2	1.88	0.55
1:A:558:THR:HG21	1:A:592:LYS:NZ	2.22	0.55
1:C:119:VAL:HG23	1:C:124:ILE:CG1	2.37	0.55
1:D:479:LEU:N	1:D:479:LEU:HD12	2.22	0.55
1:E:172:HIS:NE2	1:E:532:SER:HB3	2.21	0.55
1:E:540:LEU:HG	1:E:541:ILE:CD1	2.35	0.55
1:F:172:HIS:NE2	1:F:532:SER:HB3	2.21	0.55
1:F:235:PRO:O	1:F:237:LEU:HD22	2.06	0.55
1:F:300:ILE:HG13	1:F:301:LEU:N	2.21	0.55
1:F:304:ILE:O	1:F:307:SER:HB3	2.06	0.55
1:G:558:THR:HG21	1:G:592:LYS:NZ	2.22	0.55
1:G:587:ARG:O	1:G:589:PRO:HD3	2.06	0.55
1:I:506:VAL:HG23	1:I:507:THR:CG2	2.31	0.55
1:J:235:PRO:O	1:J:237:LEU:HD22	2.07	0.55
1:J:558:THR:HG21	1:J:592:LYS:NZ	2.22	0.55
1:J:608:ALA:HA	1:J:611:LEU:CD1	2.37	0.55
1:K:198:PHE:CD1	1:K:368:PHE:CG	2.95	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:620:ILE:N	1:K:620:ILE:HD13	2.20	0.55
1:L:540:LEU:HG	1:L:541:ILE:CD1	2.35	0.55
1:M:480:PHE:CE2	1:M:598:PHE:CE1	2.94	0.55
1:M:75:LEU:O	1:M:75:LEU:HD12	2.07	0.55
1:A:39:LEU:HD12	1:A:40:PRO:HD2	1.88	0.54
1:A:437:PRO:HB3	1:A:501:HIS:NE2	2.21	0.54
1:A:508:ILE:HG23	1:A:508:ILE:O	2.07	0.54
1:C:479:LEU:HD12	1:C:479:LEU:N	2.23	0.54
1:D:166:ILE:HG22	1:D:352:LEU:HD13	1.90	0.54
1:E:75:LEU:O	1:E:75:LEU:HD12	2.07	0.54
1:F:608:ALA:CA	1:F:611:LEU:HD13	2.38	0.54
1:G:198:PHE:CD1	1:G:368:PHE:CG	2.95	0.54
1:G:479:LEU:N	1:G:479:LEU:HD12	2.23	0.54
1:I:545:SER:O	1:I:623:LYS:HA	2.07	0.54
1:J:407:ILE:C	1:J:407:ILE:HD13	2.26	0.54
1:J:479:LEU:N	1:J:479:LEU:HD12	2.23	0.54
1:K:30:ASP:HB3	1:K:33:LEU:HB2	1.89	0.54
1:K:60:TYR:HD1	1:K:94:VAL:HB	1.71	0.54
1:K:8:ARG:HH22	1:K:70:ASN:HA	1.72	0.54
1:L:235:PRO:HB2	1:L:237:LEU:CD2	2.21	0.54
1:L:44:LEU:HD12	1:L:44:LEU:N	2.21	0.54
1:L:479:LEU:N	1:L:479:LEU:HD12	2.23	0.54
1:L:608:ALA:HA	1:L:611:LEU:CD1	2.37	0.54
1:M:508:ILE:O	1:M:508:ILE:HG23	2.07	0.54
1:M:80:ARG:HG3	1:M:88:PHE:HB3	1.89	0.54
1:A:119:VAL:HG23	1:A:124:ILE:CG1	2.37	0.54
1:A:36:VAL:HB	1:A:59:LEU:CD2	2.36	0.54
1:A:460:LEU:HD11	1:A:551:PHE:HB3	1.90	0.54
1:A:60:TYR:OH	1:A:90:TYR:CD1	2.58	0.54
1:C:331:ILE:HG23	1:C:332:THR:N	2.22	0.54
1:F:460:LEU:HD11	1:F:551:PHE:HB3	1.90	0.54
1:G:540:LEU:HD23	1:G:541:ILE:HD11	1.90	0.54
1:H:479:LEU:HD12	1:H:479:LEU:N	2.23	0.54
1:I:512:ARG:HB3	1:I:516:GLN:HB2	1.88	0.54
1:I:533:CYS:HB3	1:I:581:CYS:SG	2.47	0.54
1:I:587:ARG:O	1:I:589:PRO:HD3	2.06	0.54
1:I:608:ALA:CA	1:I:611:LEU:HD13	2.38	0.54
1:J:30:ASP:HB3	1:J:33:LEU:HB2	1.88	0.54
1:J:8:ARG:HH22	1:J:70:ASN:HA	1.71	0.54
1:L:60:TYR:HD1	1:L:94:VAL:HB	1.71	0.54
1:M:17:THR:HG21	1:M:241:VAL:HA	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:363:PHE:HA	1:M:366:ASN:HD22	1.71	0.54
1:M:476:GLN:OE1	1:M:607:ALA:HB2	2.06	0.54
1:A:408:LYS:HZ2	1:A:408:LYS:HB2	1.72	0.54
1:A:44:LEU:HD12	1:A:44:LEU:N	2.21	0.54
1:C:98:HIS:HD2	1:C:188:LYS:NZ	2.06	0.54
1:C:235:PRO:HB2	1:C:237:LEU:CD2	2.21	0.54
1:C:523:VAL:HG12	1:C:573:VAL:O	2.07	0.54
1:D:44:LEU:HD22	1:D:342:PRO:HD2	1.88	0.54
1:D:198:PHE:CD1	1:D:368:PHE:CG	2.95	0.54
1:D:508:ILE:HG23	1:D:508:ILE:O	2.06	0.54
1:D:172:HIS:NE2	1:D:532:SER:HB3	2.21	0.54
1:D:558:THR:HG21	1:D:592:LYS:NZ	2.22	0.54
1:E:608:ALA:CA	1:E:611:LEU:HD13	2.38	0.54
1:F:98:HIS:HD2	1:F:188:LYS:NZ	2.05	0.54
1:F:354:ASP:CG	1:F:356:ILE:HG12	2.28	0.54
1:G:331:ILE:HG23	1:G:332:THR:N	2.22	0.54
1:H:166:ILE:HG22	1:H:352:LEU:HD13	1.90	0.54
1:I:354:ASP:CG	1:I:356:ILE:HG12	2.28	0.54
1:I:69:PHE:HE1	1:I:102:CYS:SG	2.31	0.54
1:J:166:ILE:HD11	1:J:539:MET:HG3	1.88	0.54
1:J:200:MET:HE2	1:J:200:MET:O	2.08	0.54
1:J:383:LEU:HD13	1:J:615:MET:HE1	1.89	0.54
1:J:623:LYS:HG3	1:J:623:LYS:O	2.06	0.54
1:L:166:ILE:CG2	1:L:352:LEU:HD13	2.37	0.54
1:L:19:LEU:HD23	1:L:80:ARG:CB	2.36	0.54
1:L:235:PRO:O	1:L:237:LEU:HD22	2.06	0.54
1:L:623:LYS:O	1:L:623:LYS:HG3	2.06	0.54
1:M:30:ASP:HB3	1:M:33:LEU:HB2	1.89	0.54
1:A:30:ASP:HB3	1:A:33:LEU:HB2	1.89	0.54
1:A:354:ASP:CG	1:A:356:ILE:HG12	2.28	0.54
1:C:540:LEU:HD23	1:C:541:ILE:HD11	1.90	0.54
1:D:354:ASP:CG	1:D:356:ILE:HG12	2.28	0.54
1:E:1:THR:HG23	1:E:4:ASP:H	1.71	0.54
1:F:49:HIS:O	1:F:53:LEU:HG	2.06	0.54
1:G:608:ALA:CA	1:G:611:LEU:HD13	2.38	0.54
1:G:75:LEU:HD12	1:G:75:LEU:O	2.07	0.54
1:I:98:HIS:HD2	1:I:188:LYS:NZ	2.05	0.54
1:J:211:GLU:HA	1:J:211:GLU:OE1	2.08	0.54
1:J:235:PRO:HB2	1:J:237:LEU:CD2	2.21	0.54
1:J:540:LEU:HD23	1:J:541:ILE:HD11	1.90	0.54
1:K:200:MET:O	1:K:200:MET:HE2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:623:LYS:O	1:K:623:LYS:HG3	2.06	0.54
1:L:113:VAL:HG23	1:L:114:PHE:HD2	1.67	0.54
1:M:235:PRO:O	1:M:237:LEU:HD22	2.07	0.54
1:M:479:LEU:HD12	1:M:479:LEU:N	2.23	0.54
1:M:36:VAL:HG11	1:M:59:LEU:HD21	1.88	0.54
1:M:623:LYS:HG3	1:M:623:LYS:O	2.06	0.54
1:C:255:ILE:HD12	1:C:331:ILE:HD13	1.87	0.54
1:E:221:ILE:O	1:E:359:ARG:HG3	2.08	0.54
1:E:479:LEU:N	1:E:479:LEU:HD12	2.23	0.54
1:F:166:ILE:CG2	1:F:352:LEU:HD13	2.36	0.54
1:F:249:ARG:NH2	1:F:356:ILE:HD13	2.21	0.54
1:G:235:PRO:HB2	1:G:237:LEU:CD2	2.21	0.54
1:G:608:ALA:HA	1:G:611:LEU:CD1	2.37	0.54
1:H:198:PHE:CD1	1:H:368:PHE:CG	2.95	0.54
1:H:620:ILE:N	1:H:620:ILE:HD13	2.20	0.54
1:I:479:LEU:N	1:I:479:LEU:HD12	2.23	0.54
1:I:508:ILE:HG23	1:I:508:ILE:O	2.06	0.54
1:I:476:GLN:OE1	1:I:607:ALA:HB2	2.06	0.54
1:K:166:ILE:CG2	1:K:352:LEU:HD13	2.36	0.54
1:K:363:PHE:HA	1:K:366:ASN:HD22	1.71	0.54
1:L:354:ASP:CG	1:L:356:ILE:HG12	2.28	0.54
1:L:363:PHE:HA	1:L:366:ASN:HD22	1.71	0.54
1:L:620:ILE:N	1:L:620:ILE:HD13	2.20	0.54
1:L:8:ARG:HH22	1:L:70:ASN:HA	1.71	0.54
1:L:64:TYR:CE1	1:L:98:HIS:HB2	2.41	0.54
1:M:198:PHE:CD1	1:M:368:PHE:CG	2.95	0.54
1:M:383:LEU:HD13	1:M:615:MET:HE1	1.90	0.54
1:A:166:ILE:HG22	1:A:352:LEU:HD13	1.89	0.54
1:A:608:ALA:HA	1:A:611:LEU:CD1	2.38	0.54
1:C:5:LYS:O	1:C:9:LEU:HD13	2.08	0.54
1:D:460:LEU:HD11	1:D:551:PHE:HB3	1.90	0.54
1:D:623:LYS:O	1:D:623:LYS:HG3	2.06	0.54
1:F:331:ILE:HG23	1:F:332:THR:N	2.22	0.54
1:F:437:PRO:HA	1:F:501:HIS:CD2	2.43	0.54
1:F:69:PHE:HE1	1:F:102:CYS:SG	2.24	0.54
1:H:221:ILE:O	1:H:359:ARG:HG3	2.08	0.54
1:H:235:PRO:O	1:H:237:LEU:HD22	2.06	0.54
1:H:290:ILE:HD13	1:H:312:LYS:HE2	1.90	0.54
1:H:363:PHE:HA	1:H:366:ASN:HD22	1.71	0.54
1:H:540:LEU:HD23	1:H:541:ILE:HD11	1.90	0.54
1:H:540:LEU:HG	1:H:541:ILE:CD1	2.35	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:608:ALA:CA	1:H:611:LEU:HD13	2.38	0.54
1:I:49:HIS:O	1:I:53:LEU:HG	2.06	0.54
1:J:192:ARG:HH21	1:J:594:MET:HG3	1.69	0.54
1:J:5:LYS:O	1:J:9:LEU:HD13	2.08	0.54
1:K:1:THR:HG23	1:K:4:ASP:H	1.71	0.54
1:L:500:ASN:ND2	1:L:502:GLN:HB2	2.23	0.54
1:A:49:HIS:O	1:A:53:LEU:HG	2.07	0.54
1:D:526:ASP:OD2	1:D:573:VAL:CG2	2.56	0.54
1:E:98:HIS:HD2	1:E:188:LYS:NZ	2.05	0.54
1:E:354:ASP:CG	1:E:356:ILE:HG12	2.28	0.54
1:E:545:SER:O	1:E:623:LYS:HA	2.07	0.54
1:F:166:ILE:HG22	1:F:352:LEU:HD13	1.90	0.54
1:I:103:LYS:HE2	1:I:524:SER:O	2.07	0.54
1:I:331:ILE:HG23	1:I:332:THR:N	2.22	0.54
1:I:623:LYS:O	1:I:623:LYS:HG3	2.06	0.54
1:J:221:ILE:HG13	1:J:222:PRO:HD2	1.90	0.54
1:J:244:LEU:HB3	1:J:341:ASN:HD21	1.71	0.54
1:J:198:PHE:CD1	1:J:368:PHE:CG	2.95	0.54
1:J:54:ALA:O	1:J:57:THR:HG22	2.08	0.54
1:K:116:ASP:HA	1:K:124:ILE:HG12	1.89	0.54
1:K:354:ASP:CG	1:K:356:ILE:HG12	2.28	0.54
1:K:39:LEU:HG	1:K:43:THR:OG1	2.07	0.54
1:K:460:LEU:HD11	1:K:551:PHE:HB3	1.90	0.54
1:M:591:LYS:CE	1:M:591:LYS:HA	2.30	0.54
1:A:211:GLU:HA	1:A:211:GLU:OE1	2.08	0.54
1:C:44:LEU:HD22	1:C:342:PRO:HD2	1.89	0.54
1:C:608:ALA:CA	1:C:611:LEU:HD13	2.38	0.54
1:D:211:GLU:OE1	1:D:211:GLU:HA	2.08	0.54
1:D:290:ILE:HD13	1:D:312:LYS:HE2	1.90	0.54
1:D:437:PRO:HA	1:D:501:HIS:CD2	2.43	0.54
1:E:166:ILE:HG22	1:E:352:LEU:HD13	1.90	0.54
1:E:437:PRO:HA	1:E:501:HIS:CD2	2.43	0.54
1:E:505:SER:HA	1:E:576:ASP:O	2.08	0.54
1:F:5:LYS:O	1:F:9:LEU:HD13	2.08	0.54
1:F:96:VAL:HG13	1:F:105:ILE:HG23	1.90	0.54
1:G:506:VAL:CG2	1:G:507:THR:HG23	2.33	0.54
1:G:623:LYS:HG3	1:G:623:LYS:O	2.06	0.54
1:I:211:GLU:HA	1:I:211:GLU:OE1	2.08	0.54
1:I:540:LEU:HG	1:I:541:ILE:CD1	2.35	0.54
1:I:558:THR:HG21	1:I:592:LYS:NZ	2.22	0.54
1:J:354:ASP:CG	1:J:356:ILE:HG12	2.28	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:195:GLU:N	1:K:299:ASP:HA	2.23	0.54
1:K:505:SER:HA	1:K:576:ASP:O	2.08	0.54
1:K:64:TYR:CE1	1:K:98:HIS:HB2	2.42	0.54
1:L:211:GLU:HA	1:L:211:GLU:OE1	2.08	0.54
1:L:198:PHE:CD1	1:L:368:PHE:CG	2.95	0.54
1:M:8:ARG:HH22	1:M:70:ASN:HA	1.72	0.54
1:A:198:PHE:CD1	1:A:368:PHE:CG	2.95	0.54
1:A:506:VAL:HG23	1:A:507:THR:CG2	2.31	0.54
1:A:166:ILE:HD11	1:A:539:MET:HG3	1.88	0.54
1:A:75:LEU:HD12	1:A:75:LEU:O	2.07	0.54
1:D:166:ILE:HD11	1:D:539:MET:HG3	1.88	0.54
1:D:192:ARG:HH21	1:D:594:MET:HG3	1.69	0.54
1:D:608:ALA:CA	1:D:611:LEU:HD13	2.38	0.54
1:E:200:MET:HE2	1:E:200:MET:O	2.08	0.54
1:A:605:ARG:HH22	1:E:38:ILE:CB	2.20	0.54
1:E:96:VAL:HG13	1:E:105:ILE:HG23	1.90	0.54
1:F:279:MET:HB3	1:F:281:TYR:CE2	2.42	0.54
1:F:500:ASN:ND2	1:F:502:GLN:HB2	2.23	0.54
1:G:508:ILE:O	1:G:508:ILE:HG23	2.07	0.54
1:G:54:ALA:O	1:G:57:THR:HG22	2.08	0.54
1:J:500:ASN:ND2	1:J:502:GLN:HB2	2.23	0.54
1:J:172:HIS:ND1	1:J:532:SER:HB3	2.22	0.54
1:J:460:LEU:HD11	1:J:551:PHE:HB3	1.90	0.54
1:K:36:VAL:HG11	1:K:59:LEU:HD21	1.89	0.54
1:L:290:ILE:HD13	1:L:312:LYS:HE2	1.90	0.54
1:L:44:LEU:HD22	1:L:342:PRO:HD2	1.89	0.54
1:L:2:VAL:HG11	1:L:525:GLU:HG2	1.90	0.54
1:L:505:SER:HA	1:L:576:ASP:O	2.08	0.54
1:M:211:GLU:HA	1:M:211:GLU:OE1	2.08	0.54
1:M:505:SER:HA	1:M:576:ASP:O	2.08	0.54
1:M:5:LYS:O	1:M:9:LEU:HD13	2.08	0.54
1:C:166:ILE:HD11	1:C:539:MET:HG3	1.89	0.54
1:C:545:SER:O	1:C:623:LYS:HA	2.07	0.54
1:D:300:ILE:HG13	1:D:301:LEU:N	2.21	0.54
1:D:506:VAL:HG23	1:D:507:THR:CG2	2.31	0.54
1:E:506:VAL:HG23	1:E:507:THR:CG2	2.31	0.54
1:F:198:PHE:CD1	1:F:368:PHE:CG	2.95	0.54
1:F:608:ALA:HA	1:F:611:LEU:CD1	2.38	0.54
1:F:7:ALA:HA	1:F:10:MET:HE3	1.90	0.54
1:G:44:LEU:HD22	1:G:342:PRO:HD2	1.89	0.54
1:G:506:VAL:HG23	1:G:507:THR:CG2	2.31	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:545:SER:O	1:H:623:LYS:HA	2.07	0.54
1:I:166:ILE:HD11	1:I:539:MET:HG3	1.89	0.54
1:K:235:PRO:HB2	1:K:237:LEU:CD2	2.21	0.54
1:K:97:LEU:CD1	1:K:176:VAL:HA	2.38	0.54
1:L:30:ASP:HB3	1:L:33:LEU:HB2	1.89	0.54
1:M:331:ILE:HG23	1:M:332:THR:N	2.22	0.54
1:A:143:GLU:HA	1:A:429:LYS:HB3	1.91	0.53
1:A:331:ILE:HG23	1:A:332:THR:N	2.22	0.53
1:C:500:ASN:ND2	1:C:502:GLN:HB2	2.23	0.53
1:C:75:LEU:HD12	1:C:75:LEU:O	2.07	0.53
1:D:540:LEU:HD23	1:D:541:ILE:HD11	1.90	0.53
1:E:198:PHE:CD1	1:E:368:PHE:CG	2.95	0.53
1:E:508:ILE:HG23	1:E:508:ILE:O	2.07	0.53
1:F:211:GLU:HA	1:F:211:GLU:OE1	2.08	0.53
1:G:500:ASN:ND2	1:G:502:GLN:HB2	2.23	0.53
1:H:354:ASP:CG	1:H:356:ILE:HG12	2.28	0.53
1:H:437:PRO:HA	1:H:501:HIS:CD2	2.43	0.53
1:H:476:GLN:OE1	1:H:607:ALA:HB2	2.08	0.53
1:I:290:ILE:HD13	1:I:312:LYS:HE2	1.90	0.53
1:I:500:ASN:ND2	1:I:502:GLN:HB2	2.23	0.53
1:I:505:SER:HA	1:I:576:ASP:O	2.08	0.53
1:J:437:PRO:HA	1:J:501:HIS:CD2	2.43	0.53
1:K:96:VAL:HG13	1:K:105:ILE:HG23	1.90	0.53
1:L:166:ILE:HG22	1:L:352:LEU:HD13	1.90	0.53
1:L:608:ALA:CA	1:L:611:LEU:HD13	2.38	0.53
1:M:201:HIS:HA	1:M:204:MET:CE	2.39	0.53
1:A:201:HIS:HA	1:A:204:MET:CE	2.39	0.53
1:A:500:ASN:ND2	1:A:502:GLN:HB2	2.23	0.53
1:A:5:LYS:O	1:A:9:LEU:HD13	2.08	0.53
1:D:383:LEU:HD13	1:D:615:MET:HE1	1.89	0.53
1:D:500:ASN:ND2	1:D:502:GLN:HB2	2.23	0.53
1:E:25:PRO:O	1:E:26:LEU:HD23	2.09	0.53
1:E:303:ASP:HB2	1:E:310:GLU:O	2.08	0.53
1:E:30:ASP:HB3	1:E:33:LEU:HB2	1.89	0.53
1:E:192:ARG:HH21	1:E:594:MET:HE3	1.72	0.53
1:G:545:SER:O	1:G:623:LYS:HA	2.07	0.53
1:G:460:LEU:HD11	1:G:551:PHE:HB3	1.90	0.53
1:G:80:ARG:HG3	1:G:88:PHE:HB3	1.89	0.53
1:H:460:LEU:HD11	1:H:551:PHE:HB3	1.90	0.53
1:H:5:LYS:O	1:H:9:LEU:HD13	2.08	0.53
1:I:383:LEU:HD13	1:I:615:MET:HE1	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:221:ILE:O	1:J:359:ARG:HG3	2.08	0.53
1:J:80:ARG:HG3	1:J:88:PHE:HB3	1.89	0.53
1:L:25:PRO:O	1:L:26:LEU:HD23	2.09	0.53
1:L:437:PRO:HA	1:L:501:HIS:CD2	2.43	0.53
1:M:513:THR:HG22	1:M:516:GLN:HG3	1.90	0.53
1:M:540:LEU:HD23	1:M:541:ILE:HD11	1.90	0.53
1:A:25:PRO:O	1:A:26:LEU:HD23	2.09	0.53
1:C:211:GLU:OE1	1:C:211:GLU:HA	2.08	0.53
1:D:505:SER:HA	1:D:576:ASP:O	2.08	0.53
1:D:608:ALA:HA	1:D:611:LEU:CD1	2.38	0.53
1:F:75:LEU:HD12	1:F:75:LEU:O	2.07	0.53
1:G:172:HIS:ND1	1:G:532:SER:HB3	2.23	0.53
1:H:500:ASN:ND2	1:H:502:GLN:HB2	2.23	0.53
1:H:505:SER:HA	1:H:576:ASP:O	2.08	0.53
1:H:60:TYR:HE1	1:H:94:VAL:HG21	1.71	0.53
1:I:221:ILE:O	1:I:359:ARG:HG3	2.08	0.53
1:I:44:LEU:HD22	1:I:342:PRO:HD2	1.88	0.53
1:I:540:LEU:HD23	1:I:541:ILE:HD11	1.90	0.53
1:J:143:GLU:HA	1:J:429:LYS:HB3	1.91	0.53
1:J:201:HIS:HA	1:J:204:MET:CE	2.39	0.53
1:K:201:HIS:HA	1:K:204:MET:CE	2.39	0.53
1:K:437:PRO:HA	1:K:501:HIS:CD2	2.43	0.53
1:K:172:HIS:NE2	1:K:532:SER:HB3	2.22	0.53
1:L:508:ILE:O	1:L:508:ILE:HG23	2.06	0.53
1:M:25:PRO:O	1:M:26:LEU:HD23	2.09	0.53
1:M:437:PRO:HA	1:M:501:HIS:CD2	2.43	0.53
1:M:166:ILE:HD11	1:M:539:MET:HG3	1.88	0.53
1:M:608:ALA:HA	1:M:611:LEU:CD1	2.37	0.53
1:A:235:PRO:HB2	1:A:237:LEU:CD2	2.21	0.53
1:A:388:VAL:HG13	1:A:444:VAL:CG1	2.39	0.53
1:A:479:LEU:HD12	1:A:479:LEU:N	2.23	0.53
1:A:540:LEU:HD23	1:A:541:ILE:HD11	1.90	0.53
1:A:6:GLN:CD	1:A:105:ILE:HD13	2.29	0.53
1:C:221:ILE:O	1:C:359:ARG:HG3	2.08	0.53
1:C:281:TYR:CD1	1:C:289:LYS:HG2	2.43	0.53
1:C:290:ILE:HD13	1:C:312:LYS:HE2	1.90	0.53
1:D:331:ILE:HG23	1:D:332:THR:N	2.22	0.53
1:D:5:LYS:O	1:D:9:LEU:HD13	2.08	0.53
1:D:98:HIS:HD2	1:D:188:LYS:NZ	2.06	0.53
1:E:526:ASP:OD2	1:E:573:VAL:CG2	2.57	0.53
1:E:403:ILE:HG22	1:E:622:ILE:HA	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:64:TYR:HE1	1:G:98:HIS:HB2	1.74	0.53
1:I:166:ILE:HG22	1:I:352:LEU:HD13	1.89	0.53
1:I:76:CYS:HG	1:I:88:PHE:HE1	1.54	0.53
1:J:403:ILE:HG22	1:J:622:ILE:HA	1.91	0.53
1:J:75:LEU:O	1:J:75:LEU:HD12	2.07	0.53
1:K:331:ILE:HG23	1:K:332:THR:N	2.22	0.53
1:L:201:HIS:HA	1:L:204:MET:CE	2.38	0.53
1:M:166:ILE:HG22	1:M:352:LEU:HD13	1.90	0.53
1:M:460:LEU:HD11	1:M:551:PHE:HB3	1.90	0.53
1:A:475:GLU:O	1:A:479:LEU:HD13	2.09	0.53
1:A:96:VAL:HG13	1:A:105:ILE:HG23	1.90	0.53
1:C:143:GLU:HA	1:C:429:LYS:HB3	1.91	0.53
1:D:221:ILE:O	1:D:359:ARG:HG3	2.08	0.53
1:D:282:ILE:HD13	1:D:304:ILE:HD11	1.91	0.53
1:D:556:MET:HE3	1:D:614:ASN:HD21	1.74	0.53
1:C:38:ILE:HG13	1:D:605:ARG:NH2	2.24	0.53
1:E:179:ALA:HA	1:E:306:GLU:HG3	1.90	0.53
1:E:290:ILE:HD13	1:E:312:LYS:CE	2.39	0.53
1:E:290:ILE:HD13	1:E:312:LYS:HE2	1.90	0.53
1:E:608:ALA:HA	1:E:611:LEU:CD1	2.37	0.53
1:F:201:HIS:HA	1:F:204:MET:CE	2.39	0.53
1:F:540:LEU:HD23	1:F:541:ILE:HD11	1.89	0.53
1:F:8:ARG:HH22	1:F:70:ASN:HA	1.72	0.53
1:G:290:ILE:HD13	1:G:312:LYS:HE2	1.90	0.53
1:H:201:HIS:HA	1:H:204:MET:CE	2.39	0.53
1:I:221:ILE:HG13	1:I:222:PRO:HD2	1.90	0.53
1:I:437:PRO:HA	1:I:501:HIS:CD2	2.43	0.53
1:J:69:PHE:O	1:J:72:PHE:HB3	2.09	0.53
1:K:211:GLU:OE1	1:K:211:GLU:HA	2.08	0.53
1:K:25:PRO:O	1:K:26:LEU:HD23	2.09	0.53
1:L:97:LEU:CD1	1:L:176:VAL:HA	2.38	0.53
1:M:475:GLU:O	1:M:479:LEU:HD13	2.09	0.53
1:C:201:HIS:HA	1:C:204:MET:CE	2.39	0.53
1:D:230:LEU:HD12	1:D:230:LEU:N	2.24	0.53
1:D:506:VAL:CG2	1:D:507:THR:HG23	2.33	0.53
1:D:541:ILE:HG22	1:D:542:PRO:N	2.24	0.53
1:D:96:VAL:HG13	1:D:105:ILE:HG23	1.90	0.53
1:E:211:GLU:OE1	1:E:211:GLU:HA	2.08	0.53
1:E:475:GLU:O	1:E:479:LEU:HD13	2.09	0.53
1:E:5:LYS:O	1:E:9:LEU:HD13	2.08	0.53
1:G:201:HIS:HA	1:G:204:MET:CE	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:221:ILE:O	1:G:359:ARG:HG3	2.08	0.53
1:G:460:LEU:HB2	1:G:483:LEU:HD21	1.91	0.53
1:G:541:ILE:HG22	1:G:542:PRO:N	2.24	0.53
1:H:331:ILE:HG23	1:H:332:THR:N	2.22	0.53
1:H:442:ILE:HG23	1:H:442:ILE:O	2.09	0.53
1:H:69:PHE:O	1:H:72:PHE:HB3	2.09	0.53
1:H:96:VAL:HG13	1:H:105:ILE:HG23	1.90	0.53
1:I:106:THR:HG23	1:I:531:CYS:HB3	1.90	0.53
1:J:7:ALA:HA	1:J:10:MET:HE2	1.91	0.53
1:K:221:ILE:HG13	1:K:222:PRO:HD2	1.90	0.53
1:K:475:GLU:O	1:K:479:LEU:HD13	2.09	0.53
1:L:192:ARG:HH21	1:L:594:MET:HG3	1.69	0.53
1:L:57:THR:O	1:L:61:VAL:HG13	2.09	0.53
1:L:75:LEU:O	1:L:75:LEU:HD12	2.07	0.53
1:M:54:ALA:O	1:M:57:THR:HG22	2.08	0.53
1:A:98:HIS:HD2	1:A:188:LYS:NZ	2.07	0.53
1:A:221:ILE:O	1:A:359:ARG:HG3	2.08	0.53
1:A:437:PRO:HA	1:A:501:HIS:CD2	2.43	0.53
1:C:104:GLY:C	1:C:525:GLU:HB3	2.29	0.53
1:C:300:ILE:HA	1:C:303:ASP:OD2	2.09	0.53
1:C:354:ASP:CG	1:C:356:ILE:HG12	2.28	0.53
1:C:460:LEU:HD11	1:C:551:PHE:HB3	1.90	0.53
1:C:437:PRO:HA	1:C:501:HIS:CD2	2.43	0.53
1:C:541:ILE:HG22	1:C:542:PRO:N	2.24	0.53
1:C:57:THR:O	1:C:61:VAL:HG13	2.09	0.53
1:D:388:VAL:HG13	1:D:444:VAL:CG1	2.39	0.53
1:D:69:PHE:O	1:D:72:PHE:HB3	2.09	0.53
1:E:97:LEU:CD1	1:E:176:VAL:HA	2.39	0.53
1:E:460:LEU:HD11	1:E:551:PHE:HB3	1.89	0.53
1:F:221:ILE:O	1:F:359:ARG:HG3	2.08	0.53
1:G:300:ILE:HA	1:G:303:ASP:OD2	2.09	0.53
1:G:282:ILE:HD13	1:G:304:ILE:HD11	1.91	0.53
1:G:5:LYS:O	1:G:9:LEU:HD13	2.08	0.53
1:H:300:ILE:HA	1:H:303:ASP:OD2	2.09	0.53
1:I:388:VAL:HG13	1:I:444:VAL:CG1	2.39	0.53
1:J:166:ILE:HG22	1:J:352:LEU:HD13	1.90	0.53
1:J:282:ILE:HD13	1:J:304:ILE:HD11	1.91	0.53
1:K:117:ARG:HG3	1:K:118:PHE:CE1	2.43	0.53
1:K:118:PHE:CE2	1:K:167:ASN:HB2	2.41	0.53
1:K:479:LEU:N	1:K:479:LEU:HD12	2.23	0.53
1:K:541:ILE:HG22	1:K:542:PRO:N	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:75:LEU:HD12	1:K:75:LEU:O	2.07	0.53
1:L:221:ILE:O	1:L:359:ARG:HG3	2.08	0.53
1:L:104:GLY:C	1:L:525:GLU:HB3	2.29	0.53
1:L:60:TYR:HE1	1:L:94:VAL:HG21	1.71	0.53
1:M:290:ILE:HD13	1:M:312:LYS:HE2	1.90	0.53
1:M:221:ILE:O	1:M:359:ARG:HG3	2.08	0.53
1:A:282:ILE:HD13	1:A:304:ILE:HD11	1.91	0.53
1:C:460:LEU:HD11	1:C:551:PHE:CB	2.39	0.53
1:D:201:HIS:HA	1:D:204:MET:CE	2.39	0.53
1:E:69:PHE:O	1:E:72:PHE:HB3	2.09	0.53
1:F:290:ILE:HD13	1:F:312:LYS:CE	2.39	0.53
1:H:403:ILE:HG22	1:H:622:ILE:HA	1.91	0.53
1:I:300:ILE:HA	1:I:303:ASP:OD2	2.09	0.53
1:K:2:VAL:HG11	1:K:525:GLU:HG2	1.91	0.53
1:L:290:ILE:HD13	1:L:312:LYS:CE	2.38	0.53
1:L:388:VAL:HG13	1:L:444:VAL:CG1	2.39	0.53
1:L:442:ILE:HG23	1:L:442:ILE:O	2.09	0.53
1:L:540:LEU:HD23	1:L:541:ILE:HD11	1.90	0.53
1:L:551:PHE:CE1	1:L:622:ILE:HD12	2.44	0.53
1:M:261:VAL:HG12	1:M:262:ASP:N	2.24	0.53
1:M:36:VAL:HG21	1:M:59:LEU:HD21	1.90	0.53
1:A:230:LEU:HD12	1:A:230:LEU:N	2.24	0.53
1:A:541:ILE:HG22	1:A:542:PRO:N	2.24	0.53
1:A:505:SER:HA	1:A:576:ASP:O	2.08	0.53
1:C:230:LEU:HD12	1:C:230:LEU:N	2.24	0.53
1:C:60:TYR:HE1	1:C:94:VAL:HG21	1.70	0.53
1:D:97:LEU:CD1	1:D:176:VAL:HA	2.38	0.53
1:D:200:MET:O	1:D:200:MET:HE2	2.09	0.53
1:D:25:PRO:O	1:D:26:LEU:HD23	2.08	0.53
1:E:500:ASN:ND2	1:E:502:GLN:HB2	2.23	0.53
1:E:540:LEU:HD23	1:E:541:ILE:HD11	1.90	0.53
1:E:460:LEU:HD11	1:E:551:PHE:CB	2.39	0.53
1:E:551:PHE:CE1	1:E:622:ILE:HD12	2.44	0.53
1:F:460:LEU:HB2	1:F:483:LEU:HD21	1.91	0.53
1:F:479:LEU:N	1:F:479:LEU:HD12	2.23	0.53
1:F:60:TYR:HE1	1:F:94:VAL:HG21	1.71	0.53
1:G:354:ASP:CG	1:G:356:ILE:HG12	2.28	0.53
1:G:551:PHE:CE1	1:G:622:ILE:HD12	2.44	0.53
1:G:69:PHE:O	1:G:72:PHE:HB3	2.09	0.53
1:H:211:GLU:HA	1:H:211:GLU:OE1	2.08	0.53
1:H:388:VAL:HG13	1:H:444:VAL:CG1	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:201:HIS:HA	1:I:204:MET:CE	2.39	0.53
1:I:212:ARG:CZ	1:I:220:MET:HE2	2.38	0.53
1:I:290:ILE:HD13	1:I:312:LYS:CE	2.39	0.53
1:I:460:LEU:HD11	1:I:551:PHE:HB3	1.90	0.53
1:J:290:ILE:HD13	1:J:312:LYS:CE	2.39	0.53
1:J:608:ALA:CA	1:J:611:LEU:HD13	2.38	0.53
1:J:551:PHE:CE1	1:J:622:ILE:HD12	2.44	0.53
1:K:221:ILE:O	1:K:359:ARG:HG3	2.08	0.53
1:K:476:GLN:OE1	1:K:607:ALA:HB2	2.08	0.53
1:K:540:LEU:HD23	1:K:541:ILE:HD11	1.90	0.53
1:K:5:LYS:O	1:K:9:LEU:HD13	2.08	0.53
1:L:541:ILE:CG2	1:L:622:ILE:HD13	2.39	0.53
1:L:541:ILE:HG22	1:L:542:PRO:N	2.24	0.53
1:L:460:LEU:HD11	1:L:551:PHE:HB3	1.90	0.53
1:L:526:ASP:OD2	1:L:573:VAL:CG2	2.56	0.53
1:M:172:HIS:ND1	1:M:532:SER:HB3	2.23	0.53
1:M:290:ILE:HD13	1:M:312:LYS:CE	2.39	0.53
1:M:388:VAL:HG13	1:M:444:VAL:CG1	2.39	0.53
1:M:460:LEU:HD11	1:M:551:PHE:CB	2.39	0.53
1:A:460:LEU:HB2	1:A:483:LEU:HD21	1.91	0.53
1:C:460:LEU:HB2	1:C:483:LEU:HD21	1.91	0.53
1:C:97:LEU:CD1	1:C:176:VAL:HA	2.39	0.53
1:D:300:ILE:HA	1:D:303:ASP:OD2	2.09	0.53
1:D:426:VAL:HG23	1:D:426:VAL:O	2.09	0.53
1:D:2:VAL:HG11	1:D:525:GLU:HG2	1.90	0.53
1:D:57:THR:O	1:D:61:VAL:HG13	2.09	0.53
1:E:104:GLY:C	1:E:525:GLU:HB3	2.29	0.53
1:E:541:ILE:CG2	1:E:622:ILE:HD13	2.39	0.53
1:F:230:LEU:N	1:F:230:LEU:HD12	2.24	0.53
1:G:230:LEU:HD12	1:G:230:LEU:N	2.24	0.53
1:G:25:PRO:O	1:G:26:LEU:HD23	2.09	0.53
1:G:460:LEU:HD11	1:G:551:PHE:CB	2.39	0.53
1:G:505:SER:HA	1:G:576:ASP:O	2.08	0.53
1:H:13:PHE:CZ	1:H:107:VAL:HG13	2.44	0.53
1:H:290:ILE:HD13	1:H:312:LYS:CE	2.39	0.53
1:H:97:LEU:CD1	1:H:176:VAL:HA	2.38	0.53
1:H:253:TYR:CE2	1:I:250:PRO:HB2	2.44	0.53
1:I:460:LEU:HB2	1:I:483:LEU:HD21	1.91	0.53
1:I:475:GLU:O	1:I:479:LEU:HD13	2.09	0.53
1:J:300:ILE:HA	1:J:303:ASP:OD2	2.09	0.53
1:J:475:GLU:O	1:J:479:LEU:HD13	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:388:VAL:HG13	1:K:444:VAL:CG1	2.39	0.53
1:K:442:ILE:O	1:K:442:ILE:HG23	2.09	0.53
1:L:69:PHE:O	1:L:72:PHE:HB3	2.09	0.53
1:M:460:LEU:HB2	1:M:483:LEU:HD21	1.91	0.53
1:A:244:LEU:HB3	1:A:341:ASN:ND2	2.24	0.52
1:A:551:PHE:CE1	1:A:622:ILE:HD12	2.44	0.52
1:A:62:ALA:CB	1:A:75:LEU:CD2	2.86	0.52
1:C:475:GLU:O	1:C:479:LEU:HD13	2.09	0.52
1:D:221:ILE:HG13	1:D:222:PRO:HD2	1.90	0.52
1:E:2:VAL:HG11	1:E:525:GLU:HG2	1.90	0.52
1:F:143:GLU:HA	1:F:429:LYS:HB3	1.91	0.52
1:F:460:LEU:HD11	1:F:551:PHE:CB	2.39	0.52
1:G:290:ILE:HD13	1:G:312:LYS:CE	2.39	0.52
1:G:6:GLN:HE22	1:G:106:THR:H	1.56	0.52
1:H:282:ILE:HD13	1:H:304:ILE:HD11	1.91	0.52
1:H:513:THR:HG23	1:H:515:ASP:N	2.24	0.52
1:H:608:ALA:HA	1:H:611:LEU:CD1	2.38	0.52
1:I:442:ILE:O	1:I:442:ILE:HG23	2.09	0.52
1:I:513:THR:HG23	1:I:515:ASP:N	2.24	0.52
1:I:541:ILE:CG2	1:I:622:ILE:HD13	2.39	0.52
1:I:460:LEU:HD11	1:I:551:PHE:CB	2.39	0.52
1:I:403:ILE:HG22	1:I:622:ILE:HA	1.91	0.52
1:J:541:ILE:CG2	1:J:622:ILE:HD13	2.40	0.52
1:J:97:LEU:HG	1:J:527:SER:HB3	1.91	0.52
1:K:460:LEU:HB2	1:K:483:LEU:HD21	1.91	0.52
1:K:500:ASN:ND2	1:K:502:GLN:HB2	2.23	0.52
1:K:513:THR:HG23	1:K:515:ASP:N	2.24	0.52
1:L:98:HIS:HD2	1:L:188:LYS:NZ	2.06	0.52
1:M:6:GLN:HE22	1:M:106:THR:H	1.57	0.52
1:M:300:ILE:HA	1:M:303:ASP:OD2	2.09	0.52
1:M:354:ASP:CG	1:M:356:ILE:HG12	2.28	0.52
1:M:143:GLU:HA	1:M:429:LYS:HB3	1.91	0.52
1:M:500:ASN:ND2	1:M:502:GLN:HB2	2.23	0.52
1:M:541:ILE:CG2	1:M:622:ILE:HD13	2.39	0.52
1:A:57:THR:O	1:A:61:VAL:HG13	2.09	0.52
1:C:541:ILE:CG2	1:C:622:ILE:HD13	2.39	0.52
1:D:460:LEU:HB2	1:D:483:LEU:HD21	1.91	0.52
1:D:551:PHE:CE1	1:D:622:ILE:HD12	2.44	0.52
1:D:89:VAL:O	1:D:92:VAL:HG22	2.10	0.52
1:E:620:ILE:HD13	1:E:620:ILE:N	2.20	0.52
1:E:89:VAL:O	1:E:92:VAL:HG22	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:475:GLU:O	1:F:479:LEU:HD13	2.09	0.52
1:F:505:SER:HA	1:F:576:ASP:O	2.08	0.52
1:H:506:VAL:HG23	1:H:507:THR:CG2	2.31	0.52
1:H:460:LEU:HD11	1:H:551:PHE:CB	2.40	0.52
1:I:97:LEU:CD1	1:I:176:VAL:HA	2.39	0.52
1:J:442:ILE:O	1:J:442:ILE:HG23	2.09	0.52
1:J:460:LEU:HB2	1:J:483:LEU:HD21	1.91	0.52
1:J:505:SER:HA	1:J:576:ASP:O	2.08	0.52
1:J:460:LEU:HD11	1:J:551:PHE:CB	2.39	0.52
1:L:426:VAL:O	1:L:426:VAL:HG23	2.09	0.52
1:L:460:LEU:HD11	1:L:551:PHE:CB	2.39	0.52
1:A:5:LYS:NZ	1:A:101:ASP:O	2.39	0.52
1:C:221:ILE:HG13	1:C:222:PRO:HD2	1.90	0.52
1:C:290:ILE:HD13	1:C:312:LYS:CE	2.39	0.52
1:C:426:VAL:HG23	1:C:426:VAL:O	2.09	0.52
1:D:292:LEU:HD23	1:D:300:ILE:HD11	1.92	0.52
1:D:36:VAL:HG11	1:D:59:LEU:CD2	2.40	0.52
1:D:620:ILE:N	1:D:620:ILE:HD13	2.20	0.52
1:F:25:PRO:O	1:F:26:LEU:HD23	2.09	0.52
1:G:211:GLU:HA	1:G:211:GLU:OE1	2.08	0.52
1:I:414:LEU:O	1:I:418:ILE:HD13	2.10	0.52
1:I:608:ALA:HA	1:I:611:LEU:CD1	2.38	0.52
1:J:414:LEU:O	1:J:418:ILE:HD13	2.10	0.52
1:J:36:VAL:HG11	1:J:59:LEU:CD2	2.40	0.52
1:L:292:LEU:HD23	1:L:300:ILE:HD11	1.92	0.52
1:L:300:ILE:HG22	1:L:312:LYS:NZ	2.25	0.52
1:L:403:ILE:HG22	1:L:622:ILE:HA	1.91	0.52
1:M:36:VAL:HG11	1:M:59:LEU:CD2	2.39	0.52
1:M:513:THR:HG23	1:M:515:ASP:N	2.24	0.52
1:A:59:LEU:CD2	1:A:83:VAL:HG11	2.39	0.52
1:C:551:PHE:CE1	1:C:622:ILE:HD12	2.44	0.52
1:C:584:ARG:HG2	1:C:585:ASP:N	2.20	0.52
1:D:279:MET:HB3	1:D:281:TYR:CE2	2.44	0.52
1:D:460:LEU:HD11	1:D:551:PHE:CB	2.39	0.52
1:E:57:THR:O	1:E:61:VAL:HG13	2.09	0.52
1:F:290:ILE:HD13	1:F:312:LYS:HE2	1.90	0.52
1:F:300:ILE:HA	1:F:303:ASP:OD2	2.09	0.52
1:F:541:ILE:HG22	1:F:542:PRO:N	2.24	0.52
1:F:97:LEU:CD1	1:F:176:VAL:HA	2.39	0.52
1:G:36:VAL:HG11	1:G:59:LEU:CD2	2.40	0.52
1:G:41:ARG:HA	1:G:84:ASN:CB	2.19	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:475:GLU:O	1:G:479:LEU:HD13	2.09	0.52
1:H:306:GLU:N	1:H:307:SER:HA	2.25	0.52
1:H:426:VAL:O	1:H:426:VAL:HG23	2.09	0.52
1:H:541:ILE:CG2	1:H:622:ILE:HD13	2.39	0.52
1:J:270:ARG:HD3	1:J:363:PHE:HZ	1.74	0.52
1:J:290:ILE:HD13	1:J:312:LYS:HE2	1.90	0.52
1:K:57:THR:O	1:K:61:VAL:HG13	2.09	0.52
1:L:36:VAL:HG11	1:L:59:LEU:CD2	2.40	0.52
1:M:13:PHE:CZ	1:M:107:VAL:HG13	2.44	0.52
1:M:426:VAL:HG23	1:M:426:VAL:O	2.09	0.52
1:A:292:LEU:HD23	1:A:300:ILE:HD11	1.92	0.52
1:F:369:GLN:O	1:F:373:LYS:HG3	2.10	0.52
1:F:103:LYS:NZ	1:F:525:GLU:O	2.42	0.52
1:F:89:VAL:O	1:F:92:VAL:HG22	2.10	0.52
1:G:17:THR:HG21	1:G:241:VAL:HA	1.92	0.52
1:G:60:TYR:O	1:G:64:TYR:HD2	1.93	0.52
1:H:230:LEU:HD12	1:H:230:LEU:N	2.24	0.52
1:H:475:GLU:O	1:H:479:LEU:HD13	2.09	0.52
1:H:57:THR:O	1:H:61:VAL:HG13	2.09	0.52
1:H:551:PHE:CE1	1:H:622:ILE:HD12	2.44	0.52
1:I:143:GLU:HA	1:I:429:LYS:HB3	1.90	0.52
1:I:267:VAL:HG13	1:I:270:ARG:NH2	2.24	0.52
1:I:160:PHE:CD2	1:I:539:MET:HE3	2.45	0.52
1:I:69:PHE:O	1:I:72:PHE:HB3	2.09	0.52
1:J:369:GLN:O	1:J:373:LYS:HG3	2.10	0.52
1:A:300:ILE:HA	1:A:303:ASP:OD2	2.09	0.52
1:A:104:GLY:C	1:A:525:GLU:HB3	2.29	0.52
1:A:541:ILE:CG2	1:A:622:ILE:HD13	2.39	0.52
1:C:388:VAL:HG13	1:C:444:VAL:CG1	2.39	0.52
1:D:7:ALA:HA	1:D:10:MET:HE2	1.90	0.52
1:E:201:HIS:HA	1:E:204:MET:CE	2.39	0.52
1:E:414:LEU:O	1:E:418:ILE:HD13	2.10	0.52
1:E:442:ILE:O	1:E:442:ILE:HG23	2.09	0.52
1:E:73:ILE:O	1:E:77:GLU:HG3	2.10	0.52
1:F:221:ILE:HG13	1:F:222:PRO:HD2	1.90	0.52
1:G:437:PRO:HA	1:G:501:HIS:CD2	2.43	0.52
1:H:414:LEU:O	1:H:418:ILE:HD13	2.10	0.52
1:I:244:LEU:HB3	1:I:341:ASN:ND2	2.24	0.52
1:I:192:ARG:HH21	1:I:594:MET:HE3	1.75	0.52
1:I:551:PHE:CE1	1:I:622:ILE:HD12	2.44	0.52
1:J:230:LEU:HD12	1:J:230:LEU:N	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:333:ASP:OD2	1:J:336:HIS:HA	2.10	0.52
1:J:388:VAL:HG13	1:J:444:VAL:CG1	2.39	0.52
1:K:104:GLY:C	1:K:525:GLU:HB3	2.29	0.52
1:K:414:LEU:O	1:K:418:ILE:HD13	2.10	0.52
1:K:403:ILE:HG22	1:K:622:ILE:HA	1.91	0.52
1:K:89:VAL:O	1:K:92:VAL:HG22	2.10	0.52
1:L:283:VAL:HG23	1:L:283:VAL:O	2.10	0.52
1:M:300:ILE:HG22	1:M:312:LYS:NZ	2.25	0.52
1:M:414:LEU:O	1:M:418:ILE:HD13	2.10	0.52
1:C:300:ILE:HG22	1:C:312:LYS:NZ	2.25	0.52
1:C:96:VAL:HG13	1:C:105:ILE:HG23	1.90	0.52
1:D:143:GLU:HA	1:D:429:LYS:HB3	1.91	0.52
1:D:300:ILE:HG22	1:D:312:LYS:NZ	2.25	0.52
1:D:442:ILE:HG23	1:D:442:ILE:O	2.09	0.52
1:D:541:ILE:CG2	1:D:622:ILE:HD13	2.39	0.52
1:E:292:LEU:CD2	1:E:300:ILE:CD1	2.87	0.52
1:E:282:ILE:HD13	1:E:304:ILE:CD1	2.40	0.52
1:E:379:THR:HG22	1:E:381:GLU:H	1.75	0.52
1:F:300:ILE:HG22	1:F:312:LYS:NZ	2.25	0.52
1:F:69:PHE:O	1:F:72:PHE:HB3	2.09	0.52
1:G:13:PHE:CZ	1:G:107:VAL:HG13	2.44	0.52
1:G:221:ILE:HG13	1:G:222:PRO:HD2	1.90	0.52
1:G:300:ILE:HG22	1:G:312:LYS:NZ	2.25	0.52
1:H:292:LEU:HD23	1:H:300:ILE:HD11	1.92	0.52
1:I:306:GLU:N	1:I:307:SER:HA	2.25	0.52
1:J:73:ILE:O	1:J:77:GLU:HG3	2.10	0.52
1:K:69:PHE:O	1:K:72:PHE:HB3	2.09	0.52
1:L:306:GLU:N	1:L:307:SER:HA	2.25	0.52
1:L:414:LEU:O	1:L:418:ILE:HD13	2.10	0.52
1:L:96:VAL:HG13	1:L:105:ILE:HG23	1.90	0.52
1:M:369:GLN:O	1:M:373:LYS:HG3	2.10	0.52
1:M:541:ILE:HG22	1:M:542:PRO:N	2.24	0.52
1:A:290:ILE:HD13	1:A:312:LYS:HE2	1.90	0.52
1:A:414:LEU:O	1:A:418:ILE:HD13	2.10	0.52
1:A:460:LEU:HD11	1:A:551:PHE:CB	2.39	0.52
1:C:292:LEU:HD23	1:C:300:ILE:HD11	1.92	0.52
1:F:235:PRO:HB2	1:F:237:LEU:CD2	2.21	0.52
1:F:442:ILE:HG23	1:F:442:ILE:O	2.09	0.52
1:G:388:VAL:HG13	1:G:444:VAL:CG1	2.39	0.52
1:G:541:ILE:CG2	1:G:622:ILE:HD13	2.39	0.52
1:H:369:GLN:O	1:H:373:LYS:HG3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:143:GLU:HA	1:H:429:LYS:HB3	1.91	0.52
1:I:541:ILE:HG22	1:I:542:PRO:N	2.24	0.52
1:J:282:ILE:CD1	1:J:304:ILE:HD11	2.40	0.52
1:K:230:LEU:N	1:K:230:LEU:HD12	2.24	0.52
1:L:143:GLU:HA	1:L:429:LYS:HB3	1.91	0.52
1:L:475:GLU:O	1:L:479:LEU:HD13	2.09	0.52
1:L:558:THR:HG21	1:L:592:LYS:HZ2	1.75	0.52
1:L:89:VAL:O	1:L:92:VAL:HG22	2.10	0.52
1:M:12:LEU:O	1:M:80:ARG:NH1	2.43	0.52
1:M:283:VAL:HG23	1:M:283:VAL:O	2.10	0.52
1:M:282:ILE:CD1	1:M:304:ILE:HD11	2.40	0.52
1:M:551:PHE:CE1	1:M:622:ILE:HD12	2.44	0.52
1:M:69:PHE:O	1:M:72:PHE:HB3	2.09	0.52
1:A:283:VAL:O	1:A:283:VAL:HG23	2.10	0.52
1:A:290:ILE:HD13	1:A:312:LYS:CE	2.39	0.52
1:A:300:ILE:HG22	1:A:312:LYS:NZ	2.25	0.52
1:A:333:ASP:OD2	1:A:336:HIS:HA	2.10	0.52
1:A:337:ARG:HB2	1:C:151:LEU:CB	2.40	0.52
1:A:426:VAL:HG23	1:A:426:VAL:O	2.09	0.52
1:A:442:ILE:O	1:A:442:ILE:HG23	2.09	0.52
1:C:369:GLN:O	1:C:373:LYS:HG3	2.10	0.52
1:D:283:VAL:O	1:D:283:VAL:HG23	2.10	0.52
1:D:333:ASP:OD2	1:D:336:HIS:HA	2.10	0.52
1:D:73:ILE:O	1:D:77:GLU:HG3	2.10	0.52
1:E:333:ASP:OD2	1:E:336:HIS:HA	2.10	0.52
1:E:426:VAL:HG23	1:E:426:VAL:O	2.09	0.52
1:F:109:PRO:HB2	1:F:112:GLU:CB	2.40	0.52
1:F:263:VAL:O	1:F:266:MET:HB2	2.10	0.52
1:F:541:ILE:CG2	1:F:622:ILE:HD13	2.40	0.52
1:F:57:THR:O	1:F:61:VAL:HG13	2.09	0.52
1:G:249:ARG:HH22	1:G:356:ILE:HD13	1.74	0.52
1:G:369:GLN:O	1:G:373:LYS:HG3	2.10	0.52
1:G:426:VAL:O	1:G:426:VAL:HG23	2.09	0.52
1:G:556:MET:HE3	1:G:614:ASN:HD21	1.75	0.52
1:H:123:THR:HG23	1:H:124:ILE:N	2.25	0.52
1:H:253:TYR:HE2	1:I:250:PRO:HB2	1.75	0.52
1:H:89:VAL:O	1:H:92:VAL:HG22	2.10	0.52
1:I:282:ILE:CD1	1:I:304:ILE:HD11	2.40	0.52
1:I:300:ILE:HG22	1:I:312:LYS:NZ	2.25	0.52
1:I:499:ARG:NH1	1:I:503:ASP:HB3	2.25	0.52
1:I:57:THR:O	1:I:61:VAL:HG13	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:5:LYS:O	1:L:9:LEU:HD13	2.08	0.52
1:A:277:ILE:HA	1:A:292:LEU:CD1	2.39	0.52
1:A:369:GLN:O	1:A:373:LYS:HG3	2.10	0.52
1:A:403:ILE:HG22	1:A:622:ILE:HA	1.91	0.52
1:C:13:PHE:CZ	1:C:107:VAL:HG13	2.44	0.52
1:C:333:ASP:OD2	1:C:336:HIS:HA	2.10	0.52
1:D:475:GLU:O	1:D:479:LEU:HD13	2.09	0.52
1:E:36:VAL:HG11	1:E:59:LEU:CD2	2.40	0.52
1:F:414:LEU:O	1:F:418:ILE:HD13	2.10	0.52
1:H:98:HIS:HD2	1:H:188:LYS:NZ	2.07	0.52
1:H:379:THR:HG22	1:H:381:GLU:H	1.75	0.52
1:H:166:ILE:HD11	1:H:539:MET:HE2	1.91	0.52
1:I:230:LEU:HD12	1:I:230:LEU:N	2.24	0.52
1:I:333:ASP:OD2	1:I:336:HIS:HA	2.10	0.52
1:I:506:VAL:CG2	1:I:507:THR:HG23	2.33	0.52
1:I:108:PRO:HB3	1:I:514:PHE:CZ	2.45	0.52
1:I:528:THR:HG21	1:I:573:VAL:HG22	1.89	0.52
1:J:229:PRO:HA	1:J:253:TYR:O	2.10	0.52
1:J:64:TYR:HE2	1:J:98:HIS:HB2	1.74	0.52
1:K:369:GLN:O	1:K:373:LYS:HG3	2.10	0.52
1:K:541:ILE:CG2	1:K:622:ILE:HD13	2.40	0.52
1:K:551:PHE:CE1	1:K:622:ILE:HD12	2.44	0.52
1:L:282:ILE:CD1	1:L:304:ILE:HD11	2.40	0.52
1:L:499:ARG:NH1	1:L:503:ASP:HB3	2.25	0.52
1:M:230:LEU:HD12	1:M:230:LEU:N	2.24	0.52
1:M:379:THR:HG22	1:M:381:GLU:H	1.75	0.52
1:A:76:CYS:HG	1:A:88:PHE:HE1	1.57	0.51
1:C:403:ILE:HG22	1:C:622:ILE:HA	1.91	0.51
1:C:69:PHE:O	1:C:72:PHE:HB3	2.09	0.51
1:C:19:LEU:HD23	1:C:80:ARG:HG2	1.92	0.51
1:D:282:ILE:CD1	1:D:304:ILE:HD11	2.40	0.51
1:D:290:ILE:HD13	1:D:312:LYS:CE	2.39	0.51
1:D:403:ILE:HG22	1:D:622:ILE:HA	1.91	0.51
1:E:230:LEU:HD12	1:E:230:LEU:N	2.24	0.51
1:E:369:GLN:O	1:E:373:LYS:HG3	2.10	0.51
1:E:506:VAL:CG2	1:E:507:THR:HG23	2.33	0.51
1:F:36:VAL:HG11	1:F:59:LEU:CD2	2.40	0.51
1:F:379:THR:HG22	1:F:381:GLU:H	1.75	0.51
1:G:403:ILE:HG22	1:G:622:ILE:HA	1.91	0.51
1:H:43:THR:HG22	1:H:44:LEU:N	2.24	0.51
1:I:379:THR:HG22	1:I:381:GLU:H	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:64:TYR:HE1	1:I:98:HIS:HB2	1.75	0.51
1:J:173:TRP:HE1	1:J:196:LEU:CD2	2.23	0.51
1:J:506:VAL:HG23	1:J:507:THR:CG2	2.31	0.51
1:L:369:GLN:O	1:L:373:LYS:HG3	2.10	0.51
1:M:282:ILE:HD13	1:M:304:ILE:HD11	1.91	0.51
1:A:19:LEU:HD23	1:A:80:ARG:HG2	1.92	0.51
1:A:282:ILE:CD1	1:A:304:ILE:HD11	2.40	0.51
1:A:306:GLU:N	1:A:307:SER:HA	2.25	0.51
1:A:38:ILE:HG12	1:A:55:GLU:CG	2.41	0.51
1:A:467:LEU:HD12	1:D:151:LEU:HA	1.93	0.51
1:C:379:THR:HG22	1:C:381:GLU:H	1.75	0.51
1:C:414:LEU:O	1:C:418:ILE:HD13	2.10	0.51
1:C:499:ARG:NH1	1:C:503:ASP:HB3	2.25	0.51
1:C:89:VAL:HG13	1:C:90:TYR:N	2.25	0.51
1:C:89:VAL:O	1:C:92:VAL:HG22	2.10	0.51
1:D:369:GLN:O	1:D:373:LYS:HG3	2.10	0.51
1:D:104:GLY:C	1:D:525:GLU:HB3	2.29	0.51
1:E:460:LEU:HB2	1:E:483:LEU:HD21	1.91	0.51
1:F:173:TRP:HE1	1:F:196:LEU:CD2	2.23	0.51
1:F:371:HIS:CD2	1:F:375:PHE:CE1	2.99	0.51
1:F:73:ILE:O	1:F:77:GLU:HG3	2.10	0.51
1:F:89:VAL:HG13	1:F:90:TYR:N	2.25	0.51
1:F:340:GLU:OE1	1:G:248:SER:OG	2.28	0.51
1:G:442:ILE:HG23	1:G:442:ILE:O	2.09	0.51
1:G:499:ARG:NH1	1:G:503:ASP:HB3	2.25	0.51
1:G:554:PHE:CD1	1:G:617:LEU:HD11	2.46	0.51
1:H:460:LEU:HB2	1:H:483:LEU:HD21	1.91	0.51
1:J:300:ILE:HG22	1:J:312:LYS:NZ	2.25	0.51
1:J:554:PHE:CD1	1:J:617:LEU:HD11	2.46	0.51
1:K:371:HIS:CD2	1:K:375:PHE:CE1	2.99	0.51
1:K:554:PHE:CD1	1:K:617:LEU:HD11	2.46	0.51
1:L:554:PHE:CD1	1:L:617:LEU:HD11	2.45	0.51
1:A:173:TRP:HE1	1:A:196:LEU:CD2	2.23	0.51
1:A:608:ALA:CA	1:A:611:LEU:HD13	2.38	0.51
1:A:89:VAL:HG13	1:A:90:TYR:N	2.25	0.51
1:C:208:TYR:CE2	1:C:220:MET:HG3	2.46	0.51
1:C:306:GLU:N	1:C:307:SER:HA	2.25	0.51
1:D:171:TRP:CE3	1:D:348:THR:CG2	2.94	0.51
1:E:388:VAL:HG13	1:E:444:VAL:CG1	2.39	0.51
1:E:9:LEU:CD1	1:E:69:PHE:HZ	2.17	0.51
1:F:292:LEU:HD23	1:F:300:ILE:HD11	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:388:VAL:HG13	1:F:444:VAL:CG1	2.39	0.51
1:F:476:GLN:HB3	1:F:480:PHE:CZ	2.46	0.51
1:F:554:PHE:CD1	1:F:617:LEU:HD11	2.46	0.51
1:F:620:ILE:HD13	1:F:620:ILE:N	2.20	0.51
1:F:551:PHE:CE1	1:F:622:ILE:HD12	2.44	0.51
1:G:143:GLU:HA	1:G:429:LYS:HB3	1.91	0.51
1:G:212:ARG:CZ	1:G:220:MET:HE3	2.41	0.51
1:G:379:THR:HG22	1:G:381:GLU:H	1.75	0.51
1:G:414:LEU:O	1:G:418:ILE:HD13	2.10	0.51
1:H:371:HIS:CD2	1:H:375:PHE:CE1	2.99	0.51
1:I:171:TRP:CE3	1:I:348:THR:HG23	2.46	0.51
1:J:426:VAL:O	1:J:426:VAL:HG23	2.09	0.51
1:K:219:ARG:HH22	1:K:465:ASP:CG	2.14	0.51
1:K:19:LEU:HD23	1:K:80:ARG:HG2	1.92	0.51
1:L:19:LEU:HD23	1:L:80:ARG:HG2	1.92	0.51
1:L:230:LEU:HD12	1:L:230:LEU:N	2.24	0.51
1:L:300:ILE:HA	1:L:303:ASP:OD2	2.09	0.51
1:L:89:VAL:HG13	1:L:90:TYR:N	2.25	0.51
1:M:506:VAL:CG2	1:M:507:THR:HG23	2.33	0.51
1:M:403:ILE:HG22	1:M:622:ILE:HA	1.91	0.51
1:A:476:GLN:HB3	1:A:480:PHE:CZ	2.46	0.51
1:A:59:LEU:HD11	1:A:87:MET:CE	2.39	0.51
1:A:89:VAL:O	1:A:92:VAL:HG22	2.10	0.51
1:C:149:ASN:OD1	1:G:467:LEU:HD12	2.09	0.51
1:C:200:MET:HE2	1:C:200:MET:O	2.10	0.51
1:C:408:LYS:HB2	1:C:408:LYS:HZ2	1.74	0.51
1:C:608:ALA:HA	1:C:611:LEU:CD1	2.38	0.51
1:C:73:ILE:O	1:C:77:GLU:HG3	2.10	0.51
1:D:113:VAL:HG23	1:D:114:PHE:HD2	1.67	0.51
1:D:13:PHE:CZ	1:D:107:VAL:HG13	2.46	0.51
1:D:171:TRP:CE3	1:D:348:THR:HG23	2.46	0.51
1:D:212:ARG:CZ	1:D:220:MET:HE2	2.40	0.51
1:D:499:ARG:NH1	1:D:503:ASP:HB3	2.25	0.51
1:D:19:LEU:HD23	1:D:80:ARG:HG2	1.92	0.51
1:E:499:ARG:NH1	1:E:503:ASP:HB3	2.25	0.51
1:F:255:ILE:HD12	1:F:331:ILE:HD13	1.93	0.51
1:F:283:VAL:HG23	1:F:283:VAL:O	2.10	0.51
1:G:12:LEU:O	1:G:80:ARG:NH1	2.43	0.51
1:G:36:VAL:CB	1:G:59:LEU:HD21	2.41	0.51
1:G:73:ILE:O	1:G:77:GLU:HG3	2.10	0.51
1:H:171:TRP:CE3	1:H:348:THR:HG23	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:499:ARG:NH1	1:H:503:ASP:HB3	2.25	0.51
1:H:541:ILE:HG22	1:H:542:PRO:N	2.24	0.51
1:I:369:GLN:O	1:I:373:LYS:HG3	2.10	0.51
1:I:526:ASP:HB3	1:I:584:ARG:NH2	2.26	0.51
1:I:89:VAL:O	1:I:92:VAL:HG22	2.10	0.51
1:J:111:GLN:HG3	1:J:118:PHE:CZ	2.46	0.51
1:J:283:VAL:HG23	1:J:283:VAL:O	2.10	0.51
1:K:263:VAL:O	1:K:266:MET:HB2	2.10	0.51
1:K:171:TRP:CE3	1:K:348:THR:CG2	2.94	0.51
1:K:460:LEU:HD11	1:K:551:PHE:CB	2.39	0.51
1:L:476:GLN:HB3	1:L:480:PHE:CZ	2.46	0.51
1:M:371:HIS:CD2	1:M:375:PHE:CE1	2.98	0.51
1:M:442:ILE:HG23	1:M:442:ILE:O	2.09	0.51
1:A:240:LEU:N	1:A:240:LEU:HD23	2.25	0.51
1:A:36:VAL:CG2	1:A:59:LEU:HG	2.38	0.51
1:C:272:ARG:NH1	1:C:316:TYR:O	2.43	0.51
1:C:371:HIS:CD2	1:C:375:PHE:CE1	2.98	0.51
1:D:554:PHE:CD1	1:D:617:LEU:HD11	2.45	0.51
1:E:171:TRP:CE3	1:E:348:THR:CG2	2.94	0.51
1:E:143:GLU:HA	1:E:429:LYS:HB3	1.91	0.51
1:F:19:LEU:HD23	1:F:80:ARG:HG2	1.92	0.51
1:F:208:TYR:CE2	1:F:220:MET:HG3	2.46	0.51
1:F:506:VAL:HG23	1:F:507:THR:CG2	2.31	0.51
1:G:111:GLN:HG3	1:G:118:PHE:CZ	2.46	0.51
1:H:171:TRP:CE3	1:H:348:THR:CG2	2.94	0.51
1:I:173:TRP:HE1	1:I:196:LEU:CD2	2.23	0.51
1:I:261:VAL:HG12	1:I:262:ASP:N	2.24	0.51
1:I:282:ILE:HD13	1:I:304:ILE:HD11	1.91	0.51
1:K:171:TRP:CE3	1:K:348:THR:HG23	2.46	0.51
1:K:499:ARG:NH1	1:K:503:ASP:HB3	2.25	0.51
1:K:608:ALA:HA	1:K:611:LEU:CD1	2.38	0.51
1:K:12:LEU:HD22	1:K:80:ARG:NH2	2.26	0.51
1:L:12:LEU:HD22	1:L:80:ARG:NH2	2.26	0.51
1:L:282:ILE:HD13	1:L:304:ILE:HD11	1.91	0.51
1:L:460:LEU:HB2	1:L:483:LEU:HD21	1.91	0.51
1:M:249:ARG:NH2	1:M:356:ILE:HD13	2.25	0.51
1:M:554:PHE:CD1	1:M:617:LEU:HD11	2.46	0.51
1:M:60:TYR:O	1:M:64:TYR:HD2	1.93	0.51
1:M:64:TYR:HE1	1:M:98:HIS:HB2	1.74	0.51
1:A:111:GLN:HG3	1:A:118:PHE:CZ	2.46	0.51
1:A:151:LEU:HD23	1:C:337:ARG:HA	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:442:ILE:O	1:C:442:ILE:HG23	2.09	0.51
1:F:499:ARG:NH1	1:F:503:ASP:HB3	2.25	0.51
1:G:173:TRP:HE1	1:G:196:LEU:CD2	2.23	0.51
1:G:171:TRP:CE3	1:G:348:THR:CG2	2.94	0.51
1:H:208:TYR:CE2	1:H:220:MET:HG3	2.46	0.51
1:I:208:TYR:CE2	1:I:220:MET:HG3	2.46	0.51
1:I:240:LEU:N	1:I:240:LEU:HD23	2.25	0.51
1:I:2:VAL:O	1:I:5:LYS:HB3	2.11	0.51
1:J:499:ARG:NH1	1:J:503:ASP:HB3	2.25	0.51
1:J:60:TYR:O	1:J:64:TYR:HD1	1.93	0.51
1:J:6:GLN:HE22	1:J:106:THR:H	1.57	0.51
1:K:73:ILE:O	1:K:77:GLU:HG3	2.10	0.51
1:L:371:HIS:CD2	1:L:375:PHE:CE1	2.99	0.51
1:M:171:TRP:CE3	1:M:348:THR:HG23	2.46	0.51
1:M:36:VAL:HG22	1:M:37:GLY:H	1.74	0.51
1:M:556:MET:HE3	1:M:614:ASN:HD21	1.75	0.51
1:A:73:ILE:O	1:A:77:GLU:HG3	2.10	0.51
1:A:9:LEU:HD11	1:A:69:PHE:CE2	2.46	0.51
1:D:12:LEU:HD22	1:D:80:ARG:NH2	2.26	0.51
1:D:166:ILE:HD11	1:D:539:MET:HE2	1.92	0.51
1:D:379:THR:HG22	1:D:381:GLU:H	1.75	0.51
1:D:89:VAL:HG13	1:D:90:TYR:N	2.25	0.51
1:E:13:PHE:CZ	1:E:107:VAL:HG13	2.46	0.51
1:F:13:PHE:CZ	1:F:107:VAL:HG13	2.46	0.51
1:F:282:ILE:CD1	1:F:304:ILE:HD11	2.40	0.51
1:F:403:ILE:HG22	1:F:622:ILE:HA	1.91	0.51
1:G:201:HIS:HA	1:G:204:MET:HE2	1.91	0.51
1:H:300:ILE:HG22	1:H:312:LYS:NZ	2.25	0.51
1:H:383:LEU:HD13	1:H:615:MET:HE1	1.93	0.51
1:H:82:ILE:HG23	1:H:83:VAL:HG13	1.93	0.51
1:I:283:VAL:HG23	1:I:283:VAL:O	2.10	0.51
1:I:171:TRP:CE3	1:I:348:THR:CG2	2.94	0.51
1:I:371:HIS:CD2	1:I:375:PHE:CE1	2.98	0.51
1:I:426:VAL:O	1:I:426:VAL:HG23	2.09	0.51
1:I:476:GLN:HB3	1:I:480:PHE:CZ	2.46	0.51
1:J:171:TRP:CE3	1:J:348:THR:CG2	2.94	0.51
1:J:379:THR:HG22	1:J:381:GLU:H	1.75	0.51
1:K:508:ILE:HB	1:K:533:CYS:O	2.11	0.51
1:L:208:TYR:CE2	1:L:220:MET:HG3	2.46	0.51
1:J:272:ARG:NH2	1:L:278:ASN:ND2	2.59	0.51
1:L:248:SER:OG	1:M:340:GLU:OE1	2.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:97:LEU:CD1	1:A:176:VAL:HA	2.41	0.51
1:C:554:PHE:CD1	1:C:617:LEU:HD11	2.45	0.51
1:D:414:LEU:O	1:D:418:ILE:HD13	2.10	0.51
1:E:282:ILE:HG21	1:E:304:ILE:HD13	1.92	0.51
1:E:89:VAL:HG13	1:E:90:TYR:N	2.26	0.51
1:F:306:GLU:N	1:F:307:SER:HA	2.25	0.51
1:G:208:TYR:CE2	1:G:220:MET:HG3	2.46	0.51
1:G:620:ILE:N	1:G:620:ILE:HD13	2.19	0.51
1:H:173:TRP:HE1	1:H:196:LEU:CD2	2.23	0.51
1:H:64:TYR:OH	1:H:98:HIS:HB2	2.11	0.51
1:I:177:TYR:CE1	1:I:196:LEU:CD2	2.94	0.51
1:K:20:THR:CG2	1:K:41:ARG:HD3	2.20	0.51
1:K:426:VAL:O	1:K:426:VAL:HG23	2.09	0.51
1:K:608:ALA:CA	1:K:611:LEU:HD13	2.38	0.51
1:K:89:VAL:HG13	1:K:90:TYR:N	2.25	0.51
1:L:438:PHE:HE1	1:L:440:TYR:CZ	2.29	0.51
1:M:306:GLU:N	1:M:307:SER:HA	2.25	0.51
1:M:73:ILE:O	1:M:77:GLU:HG3	2.10	0.51
1:A:36:VAL:CB	1:A:59:LEU:HD23	2.39	0.51
1:A:499:ARG:NH1	1:A:503:ASP:HB3	2.25	0.51
1:C:64:TYR:HE1	1:C:98:HIS:HB2	1.75	0.51
1:D:177:TYR:CE1	1:D:196:LEU:CD2	2.94	0.51
1:D:306:GLU:N	1:D:307:SER:HA	2.25	0.51
1:D:36:VAL:CB	1:D:59:LEU:HD21	2.41	0.51
1:D:438:PHE:HE1	1:D:440:TYR:CZ	2.29	0.51
1:E:177:TYR:CE1	1:E:196:LEU:CD2	2.94	0.51
1:E:301:LEU:HD23	1:E:368:PHE:CE1	2.45	0.51
1:E:556:MET:HE3	1:E:614:ASN:HD21	1.76	0.51
1:E:12:LEU:HD22	1:E:80:ARG:NH2	2.26	0.51
1:F:160:PHE:CD2	1:F:539:MET:HE3	2.46	0.51
1:G:282:ILE:CD1	1:G:304:ILE:HD11	2.40	0.51
1:H:263:VAL:O	1:H:266:MET:HB2	2.11	0.51
1:H:282:ILE:CD1	1:H:304:ILE:HD11	2.40	0.51
1:H:476:GLN:HB3	1:H:480:PHE:CZ	2.46	0.51
1:H:554:PHE:CD1	1:H:617:LEU:HD11	2.45	0.51
1:I:292:LEU:HD23	1:I:300:ILE:HD11	1.92	0.51
1:J:171:TRP:CE3	1:J:348:THR:HG23	2.46	0.51
1:J:541:ILE:HG22	1:J:542:PRO:N	2.24	0.51
1:L:13:PHE:CZ	1:L:107:VAL:HG13	2.46	0.51
1:L:171:TRP:CE3	1:L:348:THR:CG2	2.94	0.51
1:L:379:THR:HG22	1:L:381:GLU:H	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:506:VAL:CG2	1:L:507:THR:HG23	2.33	0.51
1:M:97:LEU:HD12	1:M:528:THR:HB	1.93	0.51
1:A:123:THR:HG23	1:A:124:ILE:N	2.25	0.51
1:A:13:PHE:CZ	1:A:107:VAL:HG13	2.45	0.51
1:C:173:TRP:HE1	1:C:196:LEU:CD2	2.23	0.51
1:C:60:TYR:CE1	1:C:94:VAL:CG2	2.94	0.51
1:E:208:TYR:CE2	1:E:220:MET:HG3	2.46	0.51
1:E:36:VAL:CB	1:E:59:LEU:HD21	2.41	0.51
1:E:82:ILE:HG23	1:E:83:VAL:HG13	1.93	0.51
1:F:111:GLN:HG3	1:F:118:PHE:CZ	2.46	0.51
1:F:282:ILE:HD13	1:F:304:ILE:HD11	1.91	0.51
1:F:171:TRP:CE3	1:F:348:THR:CG2	2.94	0.51
1:F:39:LEU:HB2	1:F:55:GLU:OE2	2.11	0.51
1:F:476:GLN:CB	1:F:480:PHE:CE2	2.94	0.51
1:F:6:GLN:CD	1:F:105:ILE:HD13	2.32	0.51
1:G:171:TRP:CE3	1:G:348:THR:HG23	2.46	0.51
1:H:111:GLN:HG3	1:H:118:PHE:CZ	2.46	0.51
1:J:261:VAL:HG21	1:J:323:TRP:CD2	2.46	0.51
1:M:177:TYR:CE1	1:M:196:LEU:CD2	2.94	0.51
1:M:208:TYR:CE2	1:M:220:MET:HG3	2.46	0.51
1:M:438:PHE:HE1	1:M:440:TYR:CZ	2.29	0.51
1:M:476:GLN:CB	1:M:480:PHE:CE2	2.94	0.51
1:A:261:VAL:HG21	1:A:323:TRP:CD2	2.46	0.50
1:C:12:LEU:HD22	1:C:80:ARG:NH2	2.26	0.50
1:C:281:TYR:CE1	1:C:289:LYS:HG2	2.47	0.50
1:D:109:PRO:HB2	1:D:112:GLU:CB	2.39	0.50
1:D:383:LEU:CD1	1:D:610:PHE:CZ	2.94	0.50
1:D:60:TYR:CE1	1:D:94:VAL:CG2	2.94	0.50
1:E:6:GLN:CD	1:E:105:ILE:HD13	2.31	0.50
1:E:109:PRO:HB2	1:E:112:GLU:CB	2.40	0.50
1:E:171:TRP:CE3	1:E:348:THR:HG23	2.46	0.50
1:E:371:HIS:CD2	1:E:375:PHE:CE1	2.99	0.50
1:E:541:ILE:HG22	1:E:542:PRO:N	2.24	0.50
1:E:554:PHE:CD1	1:E:617:LEU:HD11	2.46	0.50
1:F:171:TRP:CE3	1:F:348:THR:HG23	2.46	0.50
1:F:171:TRP:O	1:F:175:ILE:HD13	2.12	0.50
1:F:426:VAL:HG23	1:F:426:VAL:O	2.09	0.50
1:G:249:ARG:NH2	1:G:356:ILE:HD13	2.26	0.50
1:G:261:VAL:HG21	1:G:323:TRP:CD2	2.47	0.50
1:H:438:PHE:HE1	1:H:440:TYR:CZ	2.29	0.50
1:I:244:LEU:H	1:I:244:LEU:HD12	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:288:ASN:HD22	1:I:288:ASN:N	2.10	0.50
1:I:438:PHE:HE1	1:I:440:TYR:CZ	2.29	0.50
1:J:292:LEU:HD23	1:J:300:ILE:HD11	1.91	0.50
1:K:261:VAL:HG21	1:K:323:TRP:CD2	2.47	0.50
1:K:60:TYR:CE1	1:K:94:VAL:CG2	2.94	0.50
1:L:171:TRP:CE3	1:L:348:THR:HG23	2.46	0.50
1:A:45:PHE:CE1	1:A:52:HIS:HB3	2.45	0.50
1:A:558:THR:HG21	1:A:592:LYS:HZ2	1.74	0.50
1:C:476:GLN:HB3	1:C:480:PHE:CZ	2.46	0.50
1:C:160:PHE:CD2	1:C:539:MET:CE	2.95	0.50
1:D:171:TRP:O	1:D:175:ILE:HD13	2.12	0.50
1:D:23:LYS:HG2	1:D:23:LYS:O	2.11	0.50
1:D:39:LEU:HB2	1:D:55:GLU:OE2	2.11	0.50
1:E:283:VAL:HG23	1:E:283:VAL:O	2.10	0.50
1:E:328:MET:SD	1:E:356:ILE:HD12	2.52	0.50
1:E:438:PHE:HE1	1:E:440:TYR:CZ	2.29	0.50
1:F:12:LEU:HD22	1:F:80:ARG:NH2	2.26	0.50
1:F:302:GLY:O	1:F:305:ILE:HG22	2.12	0.50
1:F:383:LEU:CD1	1:F:610:PHE:CZ	2.95	0.50
1:F:511:VAL:O	1:F:511:VAL:HG13	2.11	0.50
1:G:6:GLN:NE2	1:G:106:THR:H	2.08	0.50
1:G:306:GLU:N	1:G:307:SER:HA	2.25	0.50
1:H:89:VAL:HG13	1:H:90:TYR:N	2.25	0.50
1:I:328:MET:SD	1:I:356:ILE:HD12	2.52	0.50
1:J:172:HIS:CE1	1:J:532:SER:CB	2.91	0.50
1:J:306:GLU:N	1:J:307:SER:HA	2.25	0.50
1:J:371:HIS:CD2	1:J:375:PHE:CE1	2.99	0.50
1:J:9:LEU:CD1	1:J:69:PHE:HZ	2.17	0.50
1:K:212:ARG:CZ	1:K:220:MET:HE2	2.41	0.50
1:K:23:LYS:O	1:K:23:LYS:HG2	2.11	0.50
1:L:511:VAL:O	1:L:511:VAL:HG13	2.11	0.50
1:L:82:ILE:HG23	1:L:83:VAL:HG13	1.93	0.50
1:A:177:TYR:CZ	1:A:196:LEU:HD22	2.47	0.50
1:A:177:TYR:CE1	1:A:196:LEU:CD2	2.94	0.50
1:A:208:TYR:CE2	1:A:220:MET:HG3	2.46	0.50
1:C:333:ASP:OD2	1:C:338:PHE:HB2	2.12	0.50
1:D:255:ILE:HD12	1:D:331:ILE:HD13	1.93	0.50
1:D:385:PHE:CD2	1:D:388:VAL:CG2	2.95	0.50
1:E:173:TRP:HE1	1:E:196:LEU:CD2	2.23	0.50
1:E:261:VAL:HG21	1:E:323:TRP:CD2	2.47	0.50
1:E:383:LEU:CD1	1:E:610:PHE:CZ	2.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:60:TYR:CE1	1:E:94:VAL:CG2	2.94	0.50
1:F:177:TYR:CE1	1:F:196:LEU:CD2	2.94	0.50
1:F:328:MET:SD	1:F:356:ILE:HD12	2.52	0.50
1:G:200:MET:O	1:G:200:MET:HE2	2.12	0.50
1:G:283:VAL:O	1:G:283:VAL:HG23	2.10	0.50
1:H:383:LEU:CD1	1:H:610:PHE:CZ	2.94	0.50
1:H:385:PHE:CD2	1:H:388:VAL:CG2	2.95	0.50
1:H:60:TYR:CE1	1:H:94:VAL:CG2	2.94	0.50
1:J:281:TYR:CD1	1:J:289:LYS:CG	2.95	0.50
1:J:438:PHE:HE1	1:J:440:TYR:CZ	2.29	0.50
1:K:255:ILE:HD12	1:K:331:ILE:HD13	1.92	0.50
1:K:328:MET:SD	1:K:356:ILE:HD12	2.52	0.50
1:K:383:LEU:CD1	1:K:610:PHE:CZ	2.95	0.50
1:L:173:TRP:HE1	1:L:196:LEU:CD2	2.23	0.50
1:M:171:TRP:O	1:M:175:ILE:HD13	2.11	0.50
1:M:171:TRP:CE3	1:M:348:THR:CG2	2.94	0.50
1:M:383:LEU:CD1	1:M:610:PHE:CZ	2.94	0.50
1:M:461:ALA:CB	1:M:480:PHE:CE1	2.95	0.50
1:M:476:GLN:HB3	1:M:480:PHE:CZ	2.46	0.50
1:M:511:VAL:O	1:M:511:VAL:HG13	2.11	0.50
1:A:171:TRP:CE3	1:A:348:THR:HG23	2.46	0.50
1:A:171:TRP:O	1:A:175:ILE:HD13	2.12	0.50
1:A:328:MET:SD	1:A:356:ILE:HD12	2.52	0.50
1:A:379:THR:HG22	1:A:381:GLU:H	1.75	0.50
1:A:461:ALA:CB	1:A:480:PHE:CE1	2.95	0.50
1:A:476:GLN:CB	1:A:480:PHE:CE2	2.94	0.50
1:C:123:THR:HG23	1:C:124:ILE:N	2.25	0.50
1:C:328:MET:SD	1:C:356:ILE:HD12	2.52	0.50
1:C:438:PHE:HE1	1:C:440:TYR:CZ	2.29	0.50
1:C:82:ILE:HG23	1:C:83:VAL:HG13	1.93	0.50
1:E:160:PHE:CD2	1:E:539:MET:CE	2.95	0.50
1:F:105:ILE:O	1:F:527:SER:HA	2.12	0.50
1:F:177:TYR:CZ	1:F:196:LEU:HD22	2.47	0.50
1:F:261:VAL:HG21	1:F:323:TRP:CD2	2.47	0.50
1:F:383:LEU:HD13	1:F:615:MET:HE1	1.94	0.50
1:G:383:LEU:CD1	1:G:610:PHE:CZ	2.95	0.50
1:G:438:PHE:HE1	1:G:440:TYR:CZ	2.29	0.50
1:H:160:PHE:CD2	1:H:539:MET:CE	2.95	0.50
1:I:69:PHE:HE1	1:I:102:CYS:HG	1.57	0.50
1:I:240:LEU:HD13	1:I:418:ILE:CG2	2.39	0.50
1:J:385:PHE:CD2	1:J:388:VAL:CG2	2.95	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:6:GLN:CD	1:K:105:ILE:HD13	2.32	0.50
1:K:379:THR:HG22	1:K:381:GLU:H	1.75	0.50
1:L:328:MET:SD	1:L:356:ILE:HD12	2.52	0.50
1:L:73:ILE:O	1:L:77:GLU:HG3	2.10	0.50
1:M:328:MET:SD	1:M:356:ILE:HD12	2.52	0.50
1:M:499:ARG:NH1	1:M:503:ASP:HB3	2.25	0.50
1:A:12:LEU:HD22	1:A:80:ARG:NH2	2.26	0.50
1:A:288:ASN:N	1:A:288:ASN:HD22	2.10	0.50
1:A:171:TRP:CE3	1:A:348:THR:CG2	2.94	0.50
1:A:438:PHE:HE1	1:A:440:TYR:CZ	2.29	0.50
1:A:511:VAL:O	1:A:511:VAL:HG13	2.11	0.50
1:A:508:ILE:HB	1:A:533:CYS:O	2.11	0.50
1:A:554:PHE:CD1	1:A:617:LEU:HD11	2.45	0.50
1:A:82:ILE:HG23	1:A:83:VAL:HG13	1.93	0.50
1:C:109:PRO:HB2	1:C:112:GLU:CB	2.40	0.50
1:C:177:TYR:CZ	1:C:196:LEU:HD22	2.47	0.50
1:D:328:MET:SD	1:D:356:ILE:HD12	2.52	0.50
1:D:476:GLN:HB3	1:D:480:PHE:CZ	2.46	0.50
1:D:9:LEU:CD1	1:D:69:PHE:HZ	2.17	0.50
1:D:76:CYS:HG	1:D:88:PHE:HE1	1.57	0.50
1:E:23:LYS:HG2	1:E:23:LYS:O	2.11	0.50
1:G:385:PHE:CE2	1:G:388:VAL:CG2	2.95	0.50
1:G:385:PHE:CD2	1:G:388:VAL:CG2	2.95	0.50
1:G:476:GLN:CB	1:G:480:PHE:CE2	2.94	0.50
1:H:281:TYR:CD1	1:H:289:LYS:CG	2.95	0.50
1:H:476:GLN:CB	1:H:480:PHE:CE2	2.94	0.50
1:H:511:VAL:O	1:H:511:VAL:HG13	2.11	0.50
1:H:92:VAL:O	1:H:96:VAL:HG23	2.11	0.50
1:I:554:PHE:CD1	1:I:617:LEU:HD11	2.45	0.50
1:J:476:GLN:CB	1:J:480:PHE:CE2	2.94	0.50
1:K:281:TYR:CD1	1:K:289:LYS:CG	2.95	0.50
1:K:283:VAL:HG23	1:K:283:VAL:O	2.10	0.50
1:K:438:PHE:HE1	1:K:440:TYR:CZ	2.29	0.50
1:K:476:GLN:HB3	1:K:480:PHE:CZ	2.46	0.50
1:K:160:PHE:CD2	1:K:539:MET:CE	2.95	0.50
1:K:395:ILE:HD11	1:K:620:ILE:CG2	2.42	0.50
1:L:23:LYS:O	1:L:23:LYS:HG2	2.11	0.50
1:M:160:PHE:CD2	1:M:539:MET:CE	2.95	0.50
1:M:395:ILE:HD11	1:M:620:ILE:CG2	2.42	0.50
1:A:111:GLN:HB3	1:A:164:ILE:HD11	1.94	0.50
1:A:333:ASP:OD2	1:A:338:PHE:HB2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:33:LEU:HD11	1:A:75:LEU:HD11	1.92	0.50
1:A:383:LEU:CD1	1:A:610:PHE:CZ	2.95	0.50
1:A:526:ASP:OD2	1:A:573:VAL:CG2	2.60	0.50
1:A:605:ARG:HH22	1:E:38:ILE:HB	1.76	0.50
1:C:111:GLN:HB3	1:C:164:ILE:HD11	1.94	0.50
1:C:177:TYR:CE1	1:C:196:LEU:CD2	2.94	0.50
1:C:305:ILE:HG23	1:C:306:GLU:N	2.27	0.50
1:D:177:TYR:CZ	1:D:196:LEU:HD22	2.47	0.50
1:D:371:HIS:CD2	1:D:375:PHE:CE1	2.99	0.50
1:D:385:PHE:CE2	1:D:388:VAL:CG2	2.95	0.50
1:D:55:GLU:HB3	1:D:87:MET:SD	2.52	0.50
1:D:192:ARG:HH21	1:D:594:MET:HE3	1.75	0.50
1:D:64:TYR:OH	1:D:98:HIS:HB2	2.12	0.50
1:D:82:ILE:HG23	1:D:83:VAL:HG13	1.93	0.50
1:E:385:PHE:CD2	1:E:388:VAL:CG2	2.95	0.50
1:E:55:GLU:HB3	1:E:87:MET:SD	2.52	0.50
1:G:177:TYR:CZ	1:G:196:LEU:HD22	2.47	0.50
1:G:476:GLN:HB3	1:G:480:PHE:CZ	2.46	0.50
1:I:333:ASP:OD2	1:I:338:PHE:HB2	2.12	0.50
1:I:523:VAL:HG12	1:I:524:SER:N	2.20	0.50
1:J:208:TYR:CE2	1:J:220:MET:HG3	2.46	0.50
1:J:288:ASN:N	1:J:288:ASN:HD22	2.09	0.50
1:K:201:HIS:HA	1:K:204:MET:HE2	1.92	0.50
1:K:385:PHE:CE2	1:K:388:VAL:CG2	2.95	0.50
1:K:461:ALA:CB	1:K:480:PHE:CE1	2.95	0.50
1:K:82:ILE:HG23	1:K:83:VAL:HG13	1.93	0.50
1:L:177:TYR:CE1	1:L:196:LEU:CD2	2.94	0.50
1:L:288:ASN:N	1:L:288:ASN:HD22	2.09	0.50
1:L:385:PHE:CD2	1:L:388:VAL:CG2	2.95	0.50
1:L:6:GLN:CD	1:L:105:ILE:HD13	2.32	0.50
1:M:608:ALA:CA	1:M:611:LEU:HD13	2.38	0.50
1:A:23:LYS:HG2	1:A:23:LYS:O	2.11	0.50
1:A:281:TYR:CD1	1:A:289:LYS:CG	2.95	0.50
1:A:302:GLY:O	1:A:305:ILE:HG22	2.12	0.50
1:A:383:LEU:HD13	1:A:615:MET:HE1	1.92	0.50
1:C:6:GLN:CD	1:C:105:ILE:HD13	2.32	0.50
1:C:171:TRP:CE3	1:C:348:THR:HG23	2.46	0.50
1:C:385:PHE:CD2	1:C:388:VAL:CG2	2.95	0.50
1:C:461:ALA:CB	1:C:480:PHE:CE1	2.95	0.50
1:C:506:VAL:HG23	1:C:507:THR:CG2	2.31	0.50
1:C:383:LEU:HD13	1:C:615:MET:HE1	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:208:TYR:CE2	1:D:220:MET:HG3	2.46	0.50
1:D:511:VAL:HG13	1:D:511:VAL:O	2.11	0.50
1:E:268:ARG:HD2	1:E:272:ARG:NH2	2.27	0.50
1:E:282:ILE:HG21	1:E:304:ILE:CD1	2.41	0.50
1:E:476:GLN:CB	1:E:480:PHE:CE2	2.94	0.50
1:E:511:VAL:HG13	1:E:511:VAL:O	2.11	0.50
1:F:385:PHE:CD2	1:F:388:VAL:CG2	2.95	0.50
1:F:395:ILE:CG2	1:F:440:TYR:CD1	2.95	0.50
1:F:560:HIS:NE2	1:F:568:LEU:HD21	2.27	0.50
1:F:55:GLU:HB3	1:F:87:MET:SD	2.52	0.50
1:F:76:CYS:HG	1:F:88:PHE:HE1	1.56	0.50
1:G:160:PHE:CD2	1:G:539:MET:CE	2.95	0.50
1:G:111:GLN:HB3	1:G:164:ILE:HD11	1.94	0.50
1:G:177:TYR:CE1	1:G:196:LEU:CD2	2.94	0.50
1:G:281:TYR:CD1	1:G:289:LYS:CG	2.95	0.50
1:G:305:ILE:HG23	1:G:306:GLU:N	2.27	0.50
1:H:111:GLN:HB3	1:H:164:ILE:HD11	1.94	0.50
1:H:177:TYR:CE1	1:H:196:LEU:CD2	2.94	0.50
1:H:212:ARG:CZ	1:H:220:MET:HE2	2.42	0.50
1:I:6:GLN:HE22	1:I:106:THR:N	2.10	0.50
1:I:177:TYR:CZ	1:I:196:LEU:HD22	2.47	0.50
1:I:270:ARG:HD3	1:I:363:PHE:CZ	2.45	0.50
1:J:328:MET:SD	1:J:356:ILE:HD12	2.52	0.50
1:J:479:LEU:CD1	1:J:479:LEU:H	2.25	0.50
1:K:111:GLN:HB3	1:K:164:ILE:HD11	1.94	0.50
1:K:288:ASN:N	1:K:288:ASN:HD22	2.10	0.50
1:L:177:TYR:CZ	1:L:196:LEU:HD22	2.47	0.50
1:L:36:VAL:CB	1:L:59:LEU:HD21	2.41	0.50
1:L:383:LEU:CD1	1:L:610:PHE:CZ	2.95	0.50
1:L:39:LEU:HB2	1:L:55:GLU:OE2	2.11	0.50
1:M:6:GLN:NE2	1:M:106:THR:H	2.10	0.50
1:M:177:TYR:CZ	1:M:196:LEU:HD22	2.47	0.50
1:M:288:ASN:HD22	1:M:288:ASN:N	2.10	0.50
1:C:288:ASN:HD22	1:C:288:ASN:N	2.10	0.50
1:C:55:GLU:HB3	1:C:87:MET:SD	2.52	0.50
1:D:395:ILE:HD11	1:D:620:ILE:CG2	2.42	0.50
1:E:281:TYR:CD1	1:E:289:LYS:CG	2.95	0.50
1:E:140:ILE:HD12	1:E:426:VAL:HG12	1.94	0.50
1:E:19:LEU:HD23	1:E:80:ARG:HG2	1.92	0.50
1:G:171:TRP:O	1:G:175:ILE:HD13	2.11	0.50
1:G:288:ASN:HD22	1:G:288:ASN:N	2.09	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:140:ILE:HD12	1:G:426:VAL:HG12	1.94	0.50
1:H:302:GLY:O	1:H:305:ILE:HG22	2.12	0.50
1:H:395:ILE:CG2	1:H:440:TYR:CD1	2.95	0.50
1:H:9:LEU:CD1	1:H:69:PHE:HZ	2.17	0.50
1:I:213:LEU:HD11	1:I:219:ARG:HG2	1.94	0.50
1:I:302:GLY:O	1:I:305:ILE:HG22	2.12	0.50
1:J:177:TYR:CZ	1:J:196:LEU:HD22	2.47	0.50
1:J:333:ASP:OD2	1:J:338:PHE:HB2	2.12	0.50
1:J:476:GLN:HB3	1:J:480:PHE:CZ	2.46	0.50
1:K:511:VAL:O	1:K:511:VAL:HG13	2.11	0.50
1:L:213:LEU:HD11	1:L:219:ARG:HG2	1.94	0.50
1:L:461:ALA:CB	1:L:480:PHE:CE1	2.95	0.50
1:L:476:GLN:CB	1:L:480:PHE:CE2	2.94	0.50
1:L:160:PHE:CD2	1:L:539:MET:CE	2.95	0.50
1:L:64:TYR:OH	1:L:98:HIS:HB2	2.12	0.50
1:M:213:LEU:HD11	1:M:219:ARG:HG2	1.94	0.50
1:M:292:LEU:HD23	1:M:300:ILE:HD11	1.92	0.50
1:M:395:ILE:CG2	1:M:440:TYR:CD1	2.95	0.50
1:A:324:GLY:HA2	1:A:327:MET:CE	2.42	0.50
1:A:385:PHE:CD2	1:A:388:VAL:CG2	2.95	0.50
1:A:140:ILE:HD12	1:A:426:VAL:HG12	1.94	0.50
1:C:171:TRP:CE3	1:C:348:THR:CG2	2.94	0.50
1:C:564:THR:HG22	1:C:589:PRO:O	2.12	0.50
1:C:395:ILE:HD11	1:C:620:ILE:CG2	2.42	0.50
1:D:10:MET:HB2	1:D:11:PRO:CD	2.42	0.50
1:D:213:LEU:HD11	1:D:219:ARG:HG2	1.94	0.50
1:E:171:TRP:O	1:E:175:ILE:HD13	2.12	0.50
1:E:288:ASN:HD22	1:E:288:ASN:N	2.09	0.50
1:E:385:PHE:CE2	1:E:388:VAL:CG2	2.95	0.50
1:E:508:ILE:HB	1:E:533:CYS:O	2.11	0.50
1:E:395:ILE:HD11	1:E:620:ILE:CG2	2.42	0.50
1:F:438:PHE:HE1	1:F:440:TYR:CZ	2.29	0.50
1:F:160:PHE:CD2	1:F:539:MET:CE	2.95	0.50
1:G:23:LYS:HG2	1:G:23:LYS:O	2.11	0.50
1:G:292:LEU:HD23	1:G:300:ILE:HD11	1.92	0.50
1:I:102:CYS:HB3	1:I:105:ILE:HG22	1.94	0.50
1:I:261:VAL:HG21	1:I:323:TRP:CD2	2.47	0.50
1:I:511:VAL:HG13	1:I:511:VAL:O	2.11	0.50
1:I:160:PHE:CD2	1:I:539:MET:CE	2.95	0.50
1:I:89:VAL:HG13	1:I:90:TYR:N	2.25	0.50
1:J:103:LYS:HD2	1:J:584:ARG:HH21	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:177:TYR:CE1	1:J:196:LEU:CD2	2.94	0.50
1:I:264:GLN:OE1	1:J:270:ARG:NH1	2.44	0.50
1:J:395:ILE:CG2	1:J:440:TYR:CD1	2.95	0.50
1:J:408:LYS:HB2	1:J:408:LYS:HZ2	1.76	0.50
1:J:140:ILE:HD12	1:J:426:VAL:HG12	1.94	0.50
1:J:461:ALA:CB	1:J:480:PHE:CE1	2.95	0.50
1:K:213:LEU:HD11	1:K:219:ARG:HG2	1.94	0.50
1:K:208:TYR:CE2	1:K:220:MET:HG3	2.46	0.50
1:K:143:GLU:HA	1:K:429:LYS:HB3	1.94	0.50
1:K:451:GLU:HG2	1:K:491:THR:HA	1.94	0.50
1:M:281:TYR:CD1	1:M:289:LYS:CG	2.95	0.50
1:M:385:PHE:CD2	1:M:388:VAL:CG2	2.95	0.50
1:M:620:ILE:HD13	1:M:620:ILE:N	2.20	0.50
1:A:337:ARG:HH21	1:C:251:GLU:CD	2.15	0.49
1:A:171:TRP:HE3	1:A:348:THR:HG23	1.77	0.49
1:C:140:ILE:HD12	1:C:426:VAL:HG12	1.94	0.49
1:D:223:PHE:CB	1:D:359:ARG:HG2	2.41	0.49
1:D:395:ILE:CG2	1:D:440:TYR:CD1	2.95	0.49
1:D:508:ILE:HB	1:D:533:CYS:O	2.11	0.49
1:E:111:GLN:HG3	1:E:118:PHE:CZ	2.46	0.49
1:E:324:GLY:HA2	1:E:327:MET:CE	2.42	0.49
1:E:438:PHE:HE1	1:E:440:TYR:HH	1.57	0.49
1:F:451:GLU:HG2	1:F:491:THR:HA	1.94	0.49
1:G:328:MET:SD	1:G:356:ILE:HD12	2.52	0.49
1:G:451:GLU:HG2	1:G:491:THR:HA	1.94	0.49
1:H:328:MET:SD	1:H:356:ILE:HD12	2.52	0.49
1:H:385:PHE:CE2	1:H:388:VAL:CG2	2.95	0.49
1:H:140:ILE:HD12	1:H:426:VAL:HG12	1.94	0.49
1:H:451:GLU:HG2	1:H:491:THR:HA	1.94	0.49
1:I:383:LEU:CD1	1:I:610:PHE:CZ	2.95	0.49
1:I:476:GLN:CB	1:I:480:PHE:CE2	2.94	0.49
1:I:60:TYR:CE1	1:I:94:VAL:CG2	2.94	0.49
1:J:111:GLN:HB3	1:J:164:ILE:HD11	1.94	0.49
1:J:171:TRP:O	1:J:175:ILE:HD13	2.11	0.49
1:J:36:VAL:CB	1:J:59:LEU:HD21	2.41	0.49
1:J:383:LEU:CD1	1:J:610:PHE:CZ	2.95	0.49
1:J:385:PHE:CE2	1:J:388:VAL:CG2	2.95	0.49
1:J:556:MET:HE3	1:J:614:ASN:HD21	1.76	0.49
1:L:395:ILE:HD11	1:L:620:ILE:CG2	2.42	0.49
1:L:92:VAL:O	1:L:96:VAL:HG23	2.12	0.49
1:M:10:MET:HB2	1:M:11:PRO:CD	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:111:GLN:HG3	1:M:118:PHE:CZ	2.46	0.49
1:M:23:LYS:HG2	1:M:23:LYS:O	2.11	0.49
1:M:385:PHE:CE2	1:M:388:VAL:CG2	2.95	0.49
1:M:479:LEU:CD1	1:M:479:LEU:H	2.25	0.49
1:M:451:GLU:HG2	1:M:491:THR:HA	1.94	0.49
1:A:395:ILE:HD11	1:A:620:ILE:CG2	2.42	0.49
1:C:171:TRP:O	1:C:175:ILE:HD13	2.12	0.49
1:C:383:LEU:CD1	1:C:610:PHE:CZ	2.95	0.49
1:D:261:VAL:HG21	1:D:323:TRP:CD2	2.47	0.49
1:D:288:ASN:HD22	1:D:288:ASN:N	2.09	0.49
1:D:171:TRP:HE3	1:D:348:THR:HG23	1.77	0.49
1:E:171:TRP:HE3	1:E:348:THR:HG23	1.77	0.49
1:A:605:ARG:NH2	1:E:38:ILE:HG21	2.26	0.49
1:E:479:LEU:CD1	1:E:479:LEU:H	2.25	0.49
1:E:383:LEU:HD13	1:E:615:MET:HE1	1.92	0.49
1:F:461:ALA:CB	1:F:480:PHE:CE1	2.95	0.49
1:F:508:ILE:HB	1:F:533:CYS:O	2.11	0.49
1:F:395:ILE:HD11	1:F:620:ILE:CG2	2.42	0.49
1:G:302:GLY:O	1:G:305:ILE:HG22	2.12	0.49
1:H:288:ASN:HD22	1:H:288:ASN:N	2.10	0.49
1:H:395:ILE:HD11	1:H:620:ILE:CG2	2.42	0.49
1:I:171:TRP:O	1:I:175:ILE:HD13	2.12	0.49
1:I:385:PHE:CE2	1:I:388:VAL:CG2	2.95	0.49
1:J:38:ILE:O	1:J:40:PRO:HD3	2.13	0.49
1:K:171:TRP:O	1:K:175:ILE:HD13	2.12	0.49
1:K:36:VAL:HG11	1:K:59:LEU:CD2	2.41	0.49
1:L:64:TYR:HE1	1:L:98:HIS:HB2	1.77	0.49
1:M:261:VAL:HG21	1:M:323:TRP:CD2	2.47	0.49
1:A:385:PHE:CE2	1:A:388:VAL:CG2	2.95	0.49
1:C:479:LEU:CD1	1:C:479:LEU:H	2.25	0.49
1:D:305:ILE:HG23	1:D:306:GLU:N	2.27	0.49
1:E:201:HIS:HA	1:E:204:MET:HE2	1.94	0.49
1:E:451:GLU:HG2	1:E:491:THR:HA	1.94	0.49
1:F:213:LEU:HD11	1:F:219:ARG:HG2	1.94	0.49
1:F:23:LYS:O	1:F:23:LYS:HG2	2.11	0.49
1:F:36:VAL:CB	1:F:59:LEU:HD21	2.41	0.49
1:G:385:PHE:CE2	1:G:388:VAL:HG21	2.48	0.49
1:G:395:ILE:CG2	1:G:440:TYR:CD1	2.95	0.49
1:H:171:TRP:O	1:H:175:ILE:HD13	2.12	0.49
1:I:527:SER:H	1:I:584:ARG:NH2	2.05	0.49
1:I:395:ILE:HD11	1:I:620:ILE:CG2	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:55:GLU:HB3	1:I:87:MET:SD	2.52	0.49
1:J:69:PHE:HE1	1:J:102:CYS:HG	1.58	0.49
1:J:151:LEU:O	1:J:153:PRO:HD3	2.12	0.49
1:J:305:ILE:HG23	1:J:306:GLU:N	2.27	0.49
1:J:223:PHE:CB	1:J:359:ARG:HG2	2.41	0.49
1:J:222:PRO:CB	1:J:366:ASN:HD21	2.26	0.49
1:K:476:GLN:CB	1:K:480:PHE:CE2	2.94	0.49
1:L:212:ARG:CZ	1:L:220:MET:HE2	2.42	0.49
1:L:261:VAL:HG21	1:L:323:TRP:CD2	2.47	0.49
1:L:606:THR:HG22	1:L:609:GLU:CG	2.42	0.49
1:A:305:ILE:HG23	1:A:306:GLU:N	2.27	0.49
1:A:160:PHE:CD2	1:A:539:MET:CE	2.95	0.49
1:C:213:LEU:HD11	1:C:219:ARG:HG2	1.94	0.49
1:C:302:GLY:O	1:C:305:ILE:HG22	2.12	0.49
1:D:111:GLN:CB	1:D:164:ILE:HD11	2.43	0.49
1:D:281:TYR:CD1	1:D:289:LYS:CG	2.95	0.49
1:D:461:ALA:CB	1:D:480:PHE:CE1	2.95	0.49
1:D:476:GLN:CB	1:D:480:PHE:CE2	2.94	0.49
1:D:553:LEU:HB2	1:D:620:ILE:HD12	1.95	0.49
1:E:10:MET:HB2	1:E:11:PRO:CD	2.42	0.49
1:E:281:TYR:CD1	1:E:289:LYS:HG2	2.48	0.49
1:E:39:LEU:HB2	1:E:55:GLU:OE2	2.11	0.49
1:F:385:PHE:CE2	1:F:388:VAL:CG2	2.95	0.49
1:F:38:ILE:O	1:F:40:PRO:HD3	2.13	0.49
1:F:140:ILE:HD12	1:F:426:VAL:HG12	1.94	0.49
1:G:33:LEU:HD11	1:G:75:LEU:HD11	1.92	0.49
1:G:160:PHE:CD2	1:G:539:MET:HE3	2.47	0.49
1:I:324:GLY:HA2	1:I:327:MET:CE	2.42	0.49
1:I:222:PRO:CB	1:I:366:ASN:HD21	2.26	0.49
1:I:513:THR:HG22	1:I:516:GLN:HG3	1.90	0.49
1:I:64:TYR:OH	1:I:98:HIS:HB2	2.12	0.49
1:I:41:ARG:HA	1:I:84:ASN:HA	1.94	0.49
1:J:385:PHE:CE2	1:J:388:VAL:HG21	2.48	0.49
1:J:451:GLU:HG2	1:J:491:THR:HA	1.94	0.49
1:J:160:PHE:CD2	1:J:539:MET:CE	2.95	0.49
1:K:109:PRO:HB2	1:K:112:GLU:CB	2.40	0.49
1:K:160:PHE:CD2	1:K:539:MET:HE3	2.47	0.49
1:K:64:TYR:HE1	1:K:98:HIS:HB2	1.77	0.49
1:L:111:GLN:CB	1:L:164:ILE:HD11	2.43	0.49
1:L:281:TYR:CD1	1:L:289:LYS:CG	2.95	0.49
1:A:451:GLU:HG2	1:A:491:THR:HA	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:385:PHE:CE2	1:C:388:VAL:CG2	2.95	0.49
1:C:451:GLU:HG2	1:C:491:THR:HA	1.94	0.49
1:D:111:GLN:HG3	1:D:118:PHE:CZ	2.46	0.49
1:D:122:GLU:O	1:D:126:ARG:HG3	2.11	0.49
1:D:33:LEU:HD11	1:D:75:LEU:HD11	1.92	0.49
1:D:479:LEU:H	1:D:479:LEU:CD1	2.25	0.49
1:D:6:GLN:CD	1:D:105:ILE:HD13	2.32	0.49
1:E:303:ASP:O	1:E:311:SER:HA	2.12	0.49
1:E:333:ASP:OD2	1:E:338:PHE:HB2	2.12	0.49
1:E:476:GLN:HB3	1:E:480:PHE:CZ	2.46	0.49
1:F:111:GLN:CB	1:F:164:ILE:HD11	2.43	0.49
1:F:324:GLY:HA2	1:F:327:MET:CE	2.42	0.49
1:F:258:LEU:HD22	1:F:330:ASN:ND2	2.28	0.49
1:F:60:TYR:CE1	1:F:94:VAL:CG2	2.94	0.49
1:G:10:MET:HB2	1:G:11:PRO:CD	2.43	0.49
1:G:371:HIS:CD2	1:G:375:PHE:CE1	2.98	0.49
1:G:38:ILE:O	1:G:40:PRO:HD3	2.13	0.49
1:H:111:GLN:CB	1:H:164:ILE:HD11	2.43	0.49
1:H:281:TYR:CD1	1:H:289:LYS:HG2	2.48	0.49
1:H:283:VAL:HG23	1:H:283:VAL:O	2.10	0.49
1:H:556:MET:HE3	1:H:614:ASN:HD21	1.78	0.49
1:I:100:GLU:N	1:I:527:SER:HB3	2.27	0.49
1:I:204:MET:HG2	1:I:535:TRP:CH2	2.48	0.49
1:J:558:THR:HG21	1:J:592:LYS:HZ2	1.77	0.49
1:K:513:THR:HG22	1:K:516:GLN:HG3	1.90	0.49
1:L:302:GLY:O	1:L:305:ILE:HG22	2.12	0.49
1:L:556:MET:HE3	1:L:614:ASN:HD21	1.76	0.49
1:L:55:GLU:HB3	1:L:87:MET:SD	2.52	0.49
1:M:171:TRP:HE3	1:M:348:THR:HG23	1.77	0.49
1:M:302:GLY:O	1:M:305:ILE:HG22	2.12	0.49
1:M:385:PHE:CE2	1:M:388:VAL:HG21	2.48	0.49
1:M:411:LEU:CD2	1:M:429:LYS:HA	2.41	0.49
1:A:258:LEU:HD22	1:A:330:ASN:ND2	2.27	0.49
1:A:385:PHE:CE2	1:A:388:VAL:HG21	2.48	0.49
1:A:38:ILE:O	1:A:40:PRO:HD3	2.13	0.49
1:C:111:GLN:HG3	1:C:118:PHE:CZ	2.46	0.49
1:C:172:HIS:ND1	1:C:532:SER:HB3	2.28	0.49
1:C:222:PRO:CB	1:C:366:ASN:HD21	2.26	0.49
1:C:385:PHE:CE2	1:C:388:VAL:HG21	2.48	0.49
1:C:460:LEU:HD12	1:C:552:GLU:O	2.13	0.49
1:C:76:CYS:HG	1:C:88:PHE:HE1	1.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:92:VAL:O	1:C:96:VAL:HG23	2.12	0.49
1:D:324:GLY:HA2	1:D:327:MET:CE	2.42	0.49
1:D:92:VAL:O	1:D:96:VAL:HG23	2.12	0.49
1:E:258:LEU:HD22	1:E:330:ASN:ND2	2.28	0.49
1:E:38:ILE:O	1:E:40:PRO:HD3	2.13	0.49
1:E:64:TYR:HE1	1:E:98:HIS:HB2	1.78	0.49
1:E:92:VAL:O	1:E:96:VAL:HG23	2.13	0.49
1:F:336:HIS:O	1:F:339:GLN:HG3	2.13	0.49
1:F:606:THR:HG22	1:F:609:GLU:CG	2.42	0.49
1:G:479:LEU:H	1:G:479:LEU:CD1	2.25	0.49
1:G:511:VAL:O	1:G:511:VAL:HG13	2.12	0.49
1:H:266:MET:HA	1:H:269:TRP:CE3	2.48	0.49
1:H:261:VAL:HG21	1:H:323:TRP:CD2	2.47	0.49
1:I:255:ILE:HG23	1:I:263:VAL:HG21	1.93	0.49
1:I:171:TRP:HE3	1:I:348:THR:HG23	1.77	0.49
1:H:467:LEU:HD11	1:J:151:LEU:HD13	1.93	0.49
1:K:13:PHE:CZ	1:K:107:VAL:HG13	2.47	0.49
1:K:385:PHE:CD2	1:K:388:VAL:CG2	2.95	0.49
1:K:460:LEU:HD12	1:K:552:GLU:O	2.13	0.49
1:K:553:LEU:HB2	1:K:620:ILE:HD12	1.95	0.49
1:K:55:GLU:HB3	1:K:87:MET:SD	2.52	0.49
1:K:60:TYR:HE1	1:K:94:VAL:CG2	2.26	0.49
1:L:395:ILE:CG2	1:L:440:TYR:CD1	2.95	0.49
1:L:553:LEU:HB2	1:L:620:ILE:HD12	1.95	0.49
1:M:173:TRP:HE1	1:M:196:LEU:CD2	2.23	0.49
1:M:324:GLY:HA2	1:M:327:MET:CE	2.42	0.49
1:M:33:LEU:HD11	1:M:75:LEU:HD11	1.92	0.49
1:M:606:THR:HG22	1:M:609:GLU:CG	2.42	0.49
1:A:111:GLN:CB	1:A:164:ILE:HD11	2.43	0.49
1:A:281:TYR:CD1	1:A:289:LYS:HG2	2.48	0.49
1:A:553:LEU:HB2	1:A:620:ILE:HD12	1.95	0.49
1:A:41:ARG:HA	1:A:84:ASN:HA	1.95	0.49
1:C:166:ILE:HG22	1:C:352:LEU:HD13	1.90	0.49
1:C:212:ARG:CZ	1:C:220:MET:HE3	2.42	0.49
1:C:98:HIS:HD2	1:C:188:LYS:CE	2.26	0.49
1:D:173:TRP:HE1	1:D:196:LEU:CD2	2.23	0.49
1:D:333:ASP:OD2	1:D:338:PHE:HB2	2.12	0.49
1:D:222:PRO:CB	1:D:366:ASN:HD21	2.26	0.49
1:D:451:GLU:HG2	1:D:491:THR:HA	1.94	0.49
1:E:177:TYR:CZ	1:E:196:LEU:HD22	2.47	0.49
1:E:17:THR:HG21	1:E:241:VAL:HA	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:461:ALA:CB	1:E:480:PHE:CE1	2.95	0.49
1:F:385:PHE:CE2	1:F:388:VAL:HG21	2.48	0.49
1:G:324:GLY:HA2	1:G:327:MET:CE	2.42	0.49
1:H:6:GLN:CD	1:H:105:ILE:HD13	2.33	0.49
1:H:151:LEU:HD23	1:I:337:ARG:HA	1.93	0.49
1:I:105:ILE:HD13	1:I:106:THR:O	2.13	0.49
1:I:111:GLN:HB3	1:I:164:ILE:HD11	1.94	0.49
1:I:281:TYR:CD1	1:I:289:LYS:CG	2.95	0.49
1:I:395:ILE:CG2	1:I:440:TYR:CD1	2.95	0.49
1:I:60:TYR:HE1	1:I:94:VAL:CG2	2.26	0.49
1:J:157:LEU:HD11	1:J:217:LEU:HD12	1.95	0.49
1:J:302:GLY:O	1:J:305:ILE:HG22	2.12	0.49
1:J:324:GLY:HA2	1:J:327:MET:CE	2.42	0.49
1:J:395:ILE:HD11	1:J:620:ILE:CG2	2.42	0.49
1:K:385:PHE:CE2	1:K:388:VAL:HG21	2.48	0.49
1:K:558:THR:HG21	1:K:592:LYS:HZ2	1.77	0.49
1:K:9:LEU:CD1	1:K:69:PHE:HZ	2.17	0.49
1:K:92:VAL:O	1:K:96:VAL:HG23	2.13	0.49
1:L:385:PHE:CE2	1:L:388:VAL:CG2	2.95	0.49
1:L:41:ARG:HA	1:L:84:ASN:HA	1.95	0.49
1:L:60:TYR:HE1	1:L:94:VAL:CG2	2.26	0.49
1:A:479:LEU:CD1	1:A:479:LEU:H	2.26	0.49
1:C:258:LEU:HD22	1:C:330:ASN:ND2	2.28	0.49
1:C:506:VAL:CG2	1:C:507:THR:HG23	2.33	0.49
1:C:540:LEU:CB	1:C:541:ILE:HD12	2.43	0.49
1:C:530:TYR:HD1	1:C:574:CYS:CB	2.25	0.49
1:C:9:LEU:CD1	1:C:69:PHE:HZ	2.17	0.49
1:C:41:ARG:HA	1:C:84:ASN:HA	1.95	0.49
1:D:157:LEU:HD11	1:D:217:LEU:HD12	1.95	0.49
1:D:277:ILE:HA	1:D:292:LEU:HD11	1.95	0.49
1:E:301:LEU:HA	1:E:304:ILE:CG1	2.35	0.49
1:E:60:TYR:HE1	1:E:94:VAL:CG2	2.26	0.49
1:G:395:ILE:HD11	1:G:620:ILE:CG2	2.42	0.49
1:H:305:ILE:HG23	1:H:306:GLU:N	2.27	0.49
1:H:64:TYR:HE1	1:H:98:HIS:HB2	1.77	0.49
1:I:111:GLN:HG3	1:I:118:PHE:CZ	2.46	0.49
1:I:305:ILE:HG23	1:I:306:GLU:N	2.27	0.49
1:K:266:MET:SD	1:K:320:LEU:HD12	2.53	0.49
1:K:281:TYR:CD1	1:K:289:LYS:HG2	2.48	0.49
1:K:324:GLY:HA2	1:K:327:MET:CE	2.42	0.49
1:K:395:ILE:CG2	1:K:440:TYR:CD1	2.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:10:MET:HB2	1:L:11:PRO:CD	2.42	0.49
1:L:451:GLU:HG2	1:L:491:THR:HA	1.94	0.49
1:L:192:ARG:HH21	1:L:594:MET:HE3	1.76	0.49
1:L:60:TYR:CE1	1:L:94:VAL:CG2	2.94	0.49
1:M:258:LEU:HD22	1:M:330:ASN:ND2	2.28	0.49
1:A:219:ARG:HH22	1:A:465:ASP:CG	2.16	0.49
1:A:410:SER:HB3	1:A:430:TYR:CZ	2.48	0.49
1:A:9:LEU:HD11	1:A:69:PHE:CZ	2.48	0.49
1:C:13:PHE:CD2	1:C:108:PRO:HD2	2.48	0.49
1:D:160:PHE:CD2	1:D:539:MET:CE	2.95	0.49
1:E:111:GLN:CB	1:E:164:ILE:HD11	2.43	0.49
1:E:540:LEU:CB	1:E:541:ILE:HD12	2.43	0.49
1:F:540:LEU:CB	1:F:541:ILE:HD12	2.43	0.49
1:G:258:LEU:HD22	1:G:330:ASN:ND2	2.28	0.49
1:H:213:LEU:HD11	1:H:219:ARG:HG2	1.94	0.49
1:H:235:PRO:HB2	1:H:237:LEU:CD2	2.21	0.49
1:H:508:ILE:HB	1:H:533:CYS:O	2.12	0.49
1:I:6:GLN:HE21	1:I:105:ILE:HA	1.75	0.49
1:I:410:SER:HB3	1:I:430:TYR:CZ	2.48	0.49
1:I:467:LEU:HD23	1:I:470:LYS:HE3	1.95	0.49
1:I:451:GLU:HG2	1:I:491:THR:HA	1.94	0.49
1:I:3:ALA:O	1:I:6:GLN:HB2	2.12	0.49
1:J:10:MET:HB2	1:J:11:PRO:CD	2.42	0.49
1:J:213:LEU:HD11	1:J:219:ARG:HG2	1.94	0.49
1:J:395:ILE:HD11	1:J:620:ILE:HG21	1.95	0.49
1:J:511:VAL:O	1:J:511:VAL:HG13	2.11	0.49
1:L:111:GLN:HB3	1:L:164:ILE:HD11	1.94	0.49
1:L:171:TRP:O	1:L:175:ILE:HD13	2.12	0.49
1:L:385:PHE:CE2	1:L:388:VAL:HG21	2.48	0.49
1:L:508:ILE:HB	1:L:533:CYS:O	2.12	0.49
1:M:553:LEU:HB2	1:M:620:ILE:HD12	1.95	0.49
1:A:371:HIS:CD2	1:A:375:PHE:CE1	2.99	0.49
1:C:157:LEU:HD11	1:C:217:LEU:HD12	1.95	0.49
1:C:204:MET:HG2	1:C:535:TRP:CH2	2.48	0.49
1:C:476:GLN:CB	1:C:480:PHE:CE2	2.94	0.49
1:D:302:GLY:O	1:D:305:ILE:HG22	2.12	0.49
1:E:385:PHE:CE2	1:E:388:VAL:HG21	2.48	0.49
1:F:171:TRP:HE3	1:F:348:THR:HG23	1.77	0.49
1:G:460:LEU:HD12	1:G:552:GLU:O	2.13	0.49
1:H:22:GLU:O	1:H:24:LEU:HB2	2.12	0.49
1:H:324:GLY:HA2	1:H:327:MET:CE	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:385:PHE:CE2	1:H:388:VAL:HG21	2.48	0.49
1:H:410:SER:HB3	1:H:430:TYR:CZ	2.48	0.49
1:H:55:GLU:HB3	1:H:87:MET:SD	2.52	0.49
1:I:479:LEU:H	1:I:479:LEU:CD1	2.25	0.49
1:J:258:LEU:HD22	1:J:330:ASN:ND2	2.28	0.49
1:K:123:THR:HB	1:K:428:VAL:HG21	1.94	0.49
1:K:208:TYR:CE2	1:K:220:MET:CG	2.96	0.49
1:J:121:ALA:HB1	1:K:243:GLY:HA3	1.95	0.49
1:K:279:MET:HB3	1:K:281:TYR:CE2	2.48	0.49
1:L:324:GLY:HA2	1:L:327:MET:CE	2.42	0.49
1:L:460:LEU:HD12	1:L:552:GLU:O	2.13	0.49
1:M:111:GLN:HB3	1:M:164:ILE:HD11	1.94	0.49
1:A:10:MET:HB2	1:A:11:PRO:CD	2.42	0.48
1:A:157:LEU:HD11	1:A:217:LEU:HD12	1.95	0.48
1:A:540:LEU:CB	1:A:541:ILE:HD12	2.43	0.48
1:A:253:TYR:OH	1:C:250:PRO:HB2	2.13	0.48
1:C:324:GLY:HA2	1:C:327:MET:CE	2.42	0.48
1:C:511:VAL:HG13	1:C:511:VAL:O	2.11	0.48
1:C:64:TYR:OH	1:C:98:HIS:HB2	2.12	0.48
1:D:410:SER:HB3	1:D:430:TYR:CZ	2.48	0.48
1:D:540:LEU:CB	1:D:541:ILE:HD12	2.43	0.48
1:F:222:PRO:CB	1:F:366:ASN:HD21	2.26	0.48
1:F:479:LEU:H	1:F:479:LEU:CD1	2.25	0.48
1:F:92:VAL:O	1:F:96:VAL:HG23	2.13	0.48
1:G:109:PRO:HB2	1:G:112:GLU:CB	2.40	0.48
1:G:223:PHE:CB	1:G:359:ARG:HG2	2.41	0.48
1:G:540:LEU:CB	1:G:541:ILE:HD12	2.43	0.48
1:H:10:MET:HB2	1:H:11:PRO:CD	2.42	0.48
1:H:171:TRP:HE3	1:H:348:THR:HG23	1.77	0.48
1:H:461:ALA:CB	1:H:480:PHE:CE1	2.95	0.48
1:H:479:LEU:CD1	1:H:479:LEU:H	2.25	0.48
1:H:540:LEU:CB	1:H:541:ILE:HD12	2.43	0.48
1:I:208:TYR:CE2	1:I:220:MET:CG	2.96	0.48
1:I:281:TYR:CD1	1:I:289:LYS:HG2	2.48	0.48
1:I:223:PHE:CB	1:I:359:ARG:HG2	2.41	0.48
1:I:516:GLN:O	1:I:519:ALA:HB3	2.13	0.48
1:J:122:GLU:O	1:J:126:ARG:HG3	2.13	0.48
1:K:479:LEU:CD1	1:K:479:LEU:H	2.25	0.48
1:K:508:ILE:HD11	1:K:531:CYS:HA	1.95	0.48
1:K:608:ALA:O	1:K:611:LEU:HD13	2.14	0.48
1:K:64:TYR:OH	1:K:98:HIS:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:258:LEU:HD22	1:L:330:ASN:ND2	2.28	0.48
1:L:140:ILE:HD12	1:L:426:VAL:HG12	1.94	0.48
1:M:540:LEU:CB	1:M:541:ILE:HD12	2.43	0.48
1:A:213:LEU:HD11	1:A:219:ARG:HG2	1.94	0.48
1:A:208:TYR:CE2	1:A:220:MET:CG	2.96	0.48
1:A:244:LEU:HD12	1:A:244:LEU:H	1.77	0.48
1:C:410:SER:HB3	1:C:430:TYR:CZ	2.48	0.48
1:D:98:HIS:HD2	1:D:188:LYS:CE	2.27	0.48
1:D:258:LEU:HD22	1:D:330:ASN:ND2	2.28	0.48
1:D:385:PHE:CE2	1:D:388:VAL:HG21	2.48	0.48
1:D:140:ILE:HD12	1:D:426:VAL:HG12	1.94	0.48
1:D:608:ALA:O	1:D:611:LEU:HD13	2.14	0.48
1:D:41:ARG:HA	1:D:84:ASN:HA	1.95	0.48
1:F:13:PHE:CD2	1:F:108:PRO:HD2	2.48	0.48
1:F:157:LEU:HD11	1:F:217:LEU:HD12	1.95	0.48
1:F:64:TYR:OH	1:F:98:HIS:HB2	2.12	0.48
1:F:82:ILE:HG23	1:F:83:VAL:HG13	1.93	0.48
1:G:222:PRO:CB	1:G:366:ASN:HD21	2.26	0.48
1:G:461:ALA:CB	1:G:480:PHE:CE1	2.95	0.48
1:H:141:VAL:O	1:H:141:VAL:HG13	2.13	0.48
1:H:172:HIS:ND1	1:H:532:SER:HB3	2.28	0.48
1:I:157:LEU:HD11	1:I:217:LEU:HD12	1.95	0.48
1:I:97:LEU:HD21	1:I:529:GLU:CD	2.33	0.48
1:I:527:SER:N	1:I:584:ARG:HH22	2.04	0.48
1:J:460:LEU:HD12	1:J:552:GLU:O	2.13	0.48
1:J:19:LEU:CD1	1:J:80:ARG:HD2	2.44	0.48
1:K:258:LEU:HD22	1:K:330:ASN:ND2	2.28	0.48
1:K:414:LEU:CB	1:K:426:VAL:HG23	2.28	0.48
1:L:111:GLN:HG3	1:L:118:PHE:CZ	2.46	0.48
1:M:305:ILE:HG23	1:M:306:GLU:N	2.27	0.48
1:M:516:GLN:O	1:M:519:ALA:HB3	2.13	0.48
1:A:460:LEU:HD12	1:A:552:GLU:O	2.13	0.48
1:C:395:ILE:HD11	1:C:620:ILE:HG21	1.95	0.48
1:D:111:GLN:HB3	1:D:164:ILE:HD11	1.94	0.48
1:E:395:ILE:CG2	1:E:440:TYR:CD1	2.95	0.48
1:E:541:ILE:CG2	1:E:542:PRO:N	2.77	0.48
1:G:53:LEU:HB3	1:G:180:THR:CG2	2.43	0.48
1:G:281:TYR:CD1	1:G:289:LYS:HG2	2.48	0.48
1:G:22:GLU:HG3	1:G:82:ILE:HA	1.95	0.48
1:H:177:TYR:CZ	1:H:196:LEU:HD22	2.47	0.48
1:H:516:GLN:O	1:H:519:ALA:HB3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:385:PHE:CD2	1:I:388:VAL:CG2	2.95	0.48
1:I:608:ALA:O	1:I:611:LEU:HD13	2.14	0.48
1:I:92:VAL:O	1:I:96:VAL:HG23	2.12	0.48
1:J:141:VAL:O	1:J:141:VAL:HG13	2.13	0.48
1:J:111:GLN:CB	1:J:164:ILE:HD11	2.43	0.48
1:J:171:TRP:HE3	1:J:348:THR:HG23	1.77	0.48
1:J:53:LEU:HB3	1:J:180:THR:CG2	2.43	0.48
1:J:557:LEU:HD12	1:J:557:LEU:N	2.29	0.48
1:K:13:PHE:CD2	1:K:108:PRO:HD2	2.48	0.48
1:K:223:PHE:CB	1:K:359:ARG:HG2	2.41	0.48
1:M:53:LEU:HB3	1:M:180:THR:CG2	2.43	0.48
1:A:110:ILE:CA	1:A:113:VAL:HG22	2.44	0.48
1:C:171:TRP:HE3	1:C:348:THR:HG23	1.78	0.48
1:C:224:HIS:HA	1:C:363:PHE:CD1	2.48	0.48
1:C:508:ILE:HD12	1:C:576:ASP:OD1	2.12	0.48
1:C:541:ILE:CG2	1:C:542:PRO:N	2.76	0.48
1:D:411:LEU:HD23	1:D:429:LYS:CA	2.42	0.48
1:D:557:LEU:N	1:D:557:LEU:HD12	2.29	0.48
1:E:98:HIS:HD2	1:E:188:LYS:CE	2.26	0.48
1:E:213:LEU:HD11	1:E:219:ARG:HG2	1.94	0.48
1:E:263:VAL:O	1:E:266:MET:HB2	2.13	0.48
1:E:292:LEU:HD23	1:E:300:ILE:CD1	2.44	0.48
1:E:608:ALA:O	1:E:611:LEU:HD13	2.14	0.48
1:G:213:LEU:HD11	1:G:219:ARG:HG2	1.94	0.48
1:G:224:HIS:HA	1:G:363:PHE:CD1	2.48	0.48
1:G:606:THR:HG22	1:G:609:GLU:CG	2.42	0.48
1:H:13:PHE:CD2	1:H:108:PRO:HD2	2.48	0.48
1:H:60:TYR:HE1	1:H:94:VAL:CG2	2.26	0.48
1:I:385:PHE:CE2	1:I:388:VAL:HG21	2.48	0.48
1:J:109:PRO:HB2	1:J:112:GLU:CB	2.40	0.48
1:J:281:TYR:CD1	1:J:289:LYS:HG2	2.48	0.48
1:J:608:ALA:O	1:J:611:LEU:HD13	2.14	0.48
1:K:119:VAL:O	1:K:123:THR:HG22	2.12	0.48
1:K:395:ILE:HD11	1:K:620:ILE:HG21	1.95	0.48
1:K:24:LEU:HD13	1:K:78:GLN:HE21	1.78	0.48
1:M:22:GLU:HG3	1:M:82:ILE:HA	1.95	0.48
1:A:24:LEU:HD13	1:A:78:GLN:HE21	1.79	0.48
1:A:395:ILE:CG2	1:A:440:TYR:CD1	2.95	0.48
1:A:60:TYR:CD1	1:A:91:ALA:O	2.59	0.48
1:C:10:MET:HB2	1:C:11:PRO:CD	2.42	0.48
1:C:425:SER:OG	1:C:427:LYS:HE3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:224:HIS:HA	1:D:363:PHE:CD1	2.48	0.48
1:D:541:ILE:CG2	1:D:542:PRO:N	2.77	0.48
1:F:10:MET:HB2	1:F:11:PRO:CD	2.42	0.48
1:F:305:ILE:HG23	1:F:306:GLU:N	2.27	0.48
1:F:553:LEU:HB2	1:F:620:ILE:HD12	1.95	0.48
1:F:564:THR:HG22	1:F:589:PRO:O	2.13	0.48
1:H:608:ALA:O	1:H:611:LEU:HD13	2.14	0.48
1:I:460:LEU:HD12	1:I:552:GLU:O	2.13	0.48
1:I:540:LEU:CB	1:I:541:ILE:HD12	2.43	0.48
1:K:526:ASP:CG	1:K:573:VAL:CG2	2.82	0.48
1:L:281:TYR:CD1	1:L:289:LYS:HG2	2.48	0.48
1:L:171:TRP:HE3	1:L:348:THR:HG23	1.77	0.48
1:L:408:LYS:HB2	1:L:408:LYS:HZ3	1.79	0.48
1:L:410:SER:HB3	1:L:430:TYR:CZ	2.48	0.48
1:M:109:PRO:HB2	1:M:112:GLU:CB	2.40	0.48
1:M:557:LEU:HD12	1:M:557:LEU:N	2.29	0.48
1:A:608:ALA:O	1:A:611:LEU:HD13	2.14	0.48
1:C:111:GLN:CB	1:C:164:ILE:HD11	2.43	0.48
1:C:402:VAL:HG23	1:C:402:VAL:O	2.14	0.48
1:C:76:CYS:SG	1:C:88:PHE:CZ	3.07	0.48
1:D:110:ILE:CD1	1:D:118:PHE:HZ	2.27	0.48
1:E:13:PHE:CD2	1:E:108:PRO:HD2	2.48	0.48
1:E:110:ILE:CA	1:E:113:VAL:HG22	2.44	0.48
1:E:111:GLN:HB3	1:E:164:ILE:HD11	1.94	0.48
1:F:224:HIS:HA	1:F:363:PHE:CD1	2.48	0.48
1:F:556:MET:HE3	1:F:614:ASN:HD21	1.79	0.48
1:G:110:ILE:CD1	1:G:118:PHE:HZ	2.27	0.48
1:G:172:HIS:CE1	1:G:532:SER:CB	2.92	0.48
1:G:204:MET:HG2	1:G:535:TRP:CH2	2.49	0.48
1:G:410:SER:HB3	1:G:430:TYR:CZ	2.48	0.48
1:H:258:LEU:HD22	1:H:330:ASN:ND2	2.28	0.48
1:H:541:ILE:CG2	1:H:542:PRO:N	2.77	0.48
1:I:606:THR:HG22	1:I:609:GLU:CG	2.42	0.48
1:J:224:HIS:HA	1:J:363:PHE:CD1	2.48	0.48
1:K:157:LEU:HD11	1:K:217:LEU:HD12	1.95	0.48
1:K:224:HIS:HA	1:K:363:PHE:CD1	2.48	0.48
1:K:557:LEU:N	1:K:557:LEU:HD12	2.29	0.48
1:L:425:SER:OG	1:L:427:LYS:HE3	2.14	0.48
1:M:110:ILE:CD1	1:M:118:PHE:HZ	2.27	0.48
1:M:157:LEU:HD11	1:M:217:LEU:HD12	1.95	0.48
1:M:608:ALA:O	1:M:611:LEU:HD13	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:244:LEU:HD11	1:C:122:GLU:OE2	2.14	0.48
1:C:395:ILE:CG2	1:C:440:TYR:CD1	2.95	0.48
1:C:553:LEU:HB2	1:C:620:ILE:HD12	1.95	0.48
1:D:38:ILE:O	1:D:40:PRO:HD3	2.13	0.48
1:D:64:TYR:HE1	1:D:98:HIS:HB2	1.77	0.48
1:E:410:SER:HB3	1:E:430:TYR:CZ	2.48	0.48
1:E:24:LEU:HD13	1:E:78:GLN:HE21	1.79	0.48
1:E:64:TYR:OH	1:E:98:HIS:HB2	2.13	0.48
1:F:460:LEU:HD12	1:F:552:GLU:O	2.13	0.48
1:F:506:VAL:CG2	1:F:507:THR:HG23	2.33	0.48
1:F:41:ARG:HA	1:F:84:ASN:HA	1.95	0.48
1:F:76:CYS:SG	1:F:88:PHE:CZ	3.07	0.48
1:G:111:GLN:CB	1:G:164:ILE:HD11	2.43	0.48
1:G:171:TRP:HE3	1:G:348:THR:HG23	1.77	0.48
1:G:157:LEU:HD11	1:G:217:LEU:HD12	1.95	0.48
1:I:111:GLN:CB	1:I:164:ILE:HD11	2.43	0.48
1:J:204:MET:HG2	1:J:535:TRP:CH2	2.49	0.48
1:K:556:MET:HE3	1:K:614:ASN:HD21	1.79	0.48
1:L:13:PHE:CD2	1:L:108:PRO:HD2	2.48	0.48
1:L:38:ILE:O	1:L:40:PRO:HD3	2.13	0.48
1:L:557:LEU:HD12	1:L:557:LEU:N	2.29	0.48
1:L:608:ALA:O	1:L:611:LEU:HD13	2.14	0.48
1:L:24:LEU:HD13	1:L:78:GLN:HE21	1.78	0.48
1:M:281:TYR:CD1	1:M:289:LYS:HG2	2.48	0.48
1:M:85:GLU:HG2	1:M:86:GLY:N	2.29	0.48
1:A:13:PHE:CD2	1:A:108:PRO:HD2	2.48	0.48
1:A:530:TYR:CD2	1:A:531:CYS:SG	3.06	0.48
1:D:281:TYR:CD1	1:D:289:LYS:HG2	2.48	0.48
1:D:411:LEU:CD2	1:D:429:LYS:HA	2.41	0.48
1:D:460:LEU:HD12	1:D:552:GLU:O	2.13	0.48
1:E:106:THR:HG22	1:E:107:VAL:H	1.78	0.48
1:E:157:LEU:HD11	1:E:217:LEU:HD12	1.95	0.48
1:E:425:SER:OG	1:E:427:LYS:HE3	2.14	0.48
1:E:467:LEU:HD23	1:E:470:LYS:HE3	1.95	0.48
1:F:111:GLN:HB3	1:F:164:ILE:HD11	1.94	0.48
1:F:98:HIS:HD2	1:F:188:LYS:CE	2.26	0.48
1:F:266:MET:HA	1:F:269:TRP:CE3	2.49	0.48
1:F:410:SER:HB3	1:F:430:TYR:CZ	2.48	0.48
1:F:541:ILE:CG2	1:F:542:PRO:N	2.77	0.48
1:F:60:TYR:HE1	1:F:94:VAL:CG2	2.26	0.48
1:H:157:LEU:HD11	1:H:217:LEU:HD12	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:425:SER:OG	1:H:427:LYS:HE3	2.14	0.48
1:I:110:ILE:CD1	1:I:118:PHE:HZ	2.27	0.48
1:I:98:HIS:HD2	1:I:188:LYS:CE	2.26	0.48
1:I:258:LEU:HD22	1:I:330:ASN:ND2	2.28	0.48
1:I:276:ALA:HB1	1:I:282:ILE:HG22	1.96	0.48
1:I:224:HIS:HA	1:I:363:PHE:CD1	2.48	0.48
1:I:541:ILE:CG2	1:I:542:PRO:N	2.77	0.48
1:I:76:CYS:SG	1:I:88:PHE:CZ	3.07	0.48
1:K:10:MET:HB2	1:K:11:PRO:CD	2.42	0.48
1:K:425:SER:OG	1:K:427:LYS:HE3	2.14	0.48
1:K:410:SER:HB3	1:K:430:TYR:CZ	2.48	0.48
1:K:526:ASP:CG	1:K:573:VAL:HG23	2.34	0.48
1:K:98:HIS:HD2	1:K:188:LYS:CE	2.26	0.48
1:L:110:ILE:CD1	1:L:118:PHE:HZ	2.27	0.48
1:L:305:ILE:HG23	1:L:306:GLU:N	2.27	0.48
1:L:479:LEU:CD1	1:L:479:LEU:H	2.25	0.48
1:M:140:ILE:HD12	1:M:426:VAL:HG12	1.94	0.48
1:A:201:HIS:HA	1:A:204:MET:HE2	1.96	0.48
1:C:60:TYR:HE1	1:C:94:VAL:CG2	2.26	0.48
1:E:141:VAL:O	1:E:141:VAL:HG13	2.13	0.48
1:G:541:ILE:CG2	1:G:542:PRO:N	2.77	0.48
1:H:98:HIS:HD2	1:H:188:LYS:CE	2.27	0.48
1:I:414:LEU:CB	1:I:426:VAL:HG23	2.28	0.48
1:I:557:LEU:HD12	1:I:557:LEU:N	2.29	0.48
1:J:6:GLN:NE2	1:J:106:THR:H	2.11	0.48
1:K:171:TRP:HE3	1:K:348:THR:HG23	1.77	0.48
1:L:76:CYS:SG	1:L:88:PHE:CZ	3.07	0.48
1:M:410:SER:HB3	1:M:430:TYR:CZ	2.48	0.48
1:A:106:THR:HG22	1:A:107:VAL:H	1.78	0.48
1:A:141:VAL:O	1:A:141:VAL:HG13	2.13	0.48
1:A:47:CYS:O	1:A:53:LEU:HD21	2.14	0.48
1:A:76:CYS:SG	1:A:88:PHE:CZ	3.07	0.48
1:C:106:THR:HG22	1:C:107:VAL:H	1.78	0.48
1:E:553:LEU:HB2	1:E:620:ILE:HD12	1.95	0.48
1:F:411:LEU:CD2	1:F:429:LYS:HA	2.41	0.48
1:F:172:HIS:ND1	1:F:532:SER:HB3	2.29	0.48
1:G:13:PHE:CD2	1:G:108:PRO:HD2	2.49	0.48
1:G:608:ALA:O	1:G:611:LEU:HD13	2.13	0.48
1:I:425:SER:OG	1:I:427:LYS:HE3	2.14	0.48
1:I:461:ALA:CB	1:I:480:PHE:CE1	2.95	0.48
1:I:553:LEU:HB2	1:I:620:ILE:HD12	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:410:SER:HB3	1:J:430:TYR:CZ	2.48	0.48
1:J:425:SER:OG	1:J:427:LYS:HE3	2.14	0.48
1:J:540:LEU:CB	1:J:541:ILE:HD12	2.43	0.48
1:K:126:ARG:HA	1:K:129:LYS:HE2	1.95	0.48
1:K:193:LYS:NZ	1:K:303:ASP:HA	2.29	0.48
1:K:541:ILE:CG2	1:K:542:PRO:N	2.77	0.48
1:K:41:ARG:HA	1:K:84:ASN:HA	1.95	0.48
1:L:268:ARG:HD2	1:L:272:ARG:NH2	2.28	0.48
1:M:460:LEU:HD12	1:M:552:GLU:O	2.13	0.48
1:M:395:ILE:HD11	1:M:620:ILE:HG21	1.95	0.48
1:M:405:THR:HG22	1:M:624:PHE:HA	1.96	0.48
1:A:425:SER:OG	1:A:427:LYS:HE3	2.14	0.47
1:A:606:THR:HG22	1:A:609:GLU:CG	2.42	0.47
1:C:508:ILE:HB	1:C:533:CYS:O	2.13	0.47
1:C:405:THR:HG22	1:C:624:PHE:HA	1.96	0.47
1:D:402:VAL:HG23	1:D:402:VAL:O	2.14	0.47
1:D:87:MET:HE2	1:D:87:MET:HB3	1.83	0.47
1:E:34:LYS:HG3	1:E:35:GLY:N	2.30	0.47
1:E:41:ARG:HA	1:E:84:ASN:HA	1.95	0.47
1:E:557:LEU:HD12	1:E:557:LEU:N	2.29	0.47
1:F:608:ALA:O	1:F:611:LEU:HD13	2.14	0.47
1:G:20:THR:CG2	1:G:41:ARG:HD3	2.21	0.47
1:G:442:ILE:HG22	1:G:497:ILE:HB	1.96	0.47
1:H:106:THR:HG22	1:H:107:VAL:H	1.78	0.47
1:H:110:ILE:CA	1:H:113:VAL:HG22	2.44	0.47
1:H:208:TYR:CE2	1:H:220:MET:CG	2.96	0.47
1:H:277:ILE:HA	1:H:292:LEU:CD1	2.43	0.47
1:I:110:ILE:CA	1:I:113:VAL:HG22	2.44	0.47
1:I:141:VAL:O	1:I:141:VAL:HG13	2.13	0.47
1:I:467:LEU:HD12	1:M:151:LEU:HA	1.96	0.47
1:J:606:THR:HG22	1:J:609:GLU:CG	2.42	0.47
1:J:85:GLU:HG2	1:J:86:GLY:N	2.29	0.47
1:K:5:LYS:NZ	1:K:101:ASP:O	2.44	0.47
1:K:33:LEU:HD11	1:K:75:LEU:HD11	1.92	0.47
1:K:34:LYS:HG3	1:K:35:GLY:N	2.29	0.47
1:K:112:GLU:OE1	1:K:514:PHE:HD2	1.98	0.47
1:L:541:ILE:CG2	1:L:542:PRO:N	2.77	0.47
1:M:111:GLN:CB	1:M:164:ILE:HD11	2.43	0.47
1:A:38:ILE:HG13	1:A:55:GLU:CD	2.33	0.47
1:D:24:LEU:HD13	1:D:78:GLN:HE21	1.78	0.47
1:E:301:LEU:CA	1:E:304:ILE:HG13	2.38	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:251:GLU:HG3	1:E:337:ARG:NH2	2.29	0.47
1:E:33:LEU:HD11	1:E:75:LEU:HD11	1.92	0.47
1:E:411:LEU:CD2	1:E:429:LYS:HA	2.41	0.47
1:E:460:LEU:HD12	1:E:552:GLU:O	2.13	0.47
1:E:61:VAL:HG23	1:E:62:ALA:N	2.29	0.47
1:E:405:THR:HG22	1:E:624:PHE:HA	1.96	0.47
1:F:61:VAL:HG23	1:F:62:ALA:N	2.29	0.47
1:G:110:ILE:CA	1:G:113:VAL:HG22	2.44	0.47
1:G:19:LEU:HD23	1:G:80:ARG:CB	2.43	0.47
1:G:557:LEU:HD12	1:G:557:LEU:N	2.29	0.47
1:H:460:LEU:HD12	1:H:552:GLU:O	2.13	0.47
1:H:553:LEU:HB2	1:H:620:ILE:HD12	1.95	0.47
1:J:411:LEU:CD2	1:J:429:LYS:HA	2.41	0.47
1:J:553:LEU:HB2	1:J:620:ILE:HD12	1.95	0.47
1:K:222:PRO:CB	1:K:366:ASN:HD21	2.26	0.47
1:K:516:GLN:O	1:K:519:ALA:HB3	2.13	0.47
1:M:172:HIS:CE1	1:M:532:SER:CB	2.93	0.47
1:M:208:TYR:CE2	1:M:220:MET:CG	2.96	0.47
1:A:34:LYS:HG3	1:A:35:GLY:N	2.30	0.47
1:C:208:TYR:CE2	1:C:220:MET:CG	2.96	0.47
1:D:141:VAL:HG13	1:D:141:VAL:O	2.13	0.47
1:E:303:ASP:HB2	1:E:310:GLU:HB3	1.96	0.47
1:E:606:THR:HG22	1:E:609:GLU:CG	2.42	0.47
1:F:141:VAL:HG13	1:F:141:VAL:O	2.13	0.47
1:G:405:THR:CG2	1:G:624:PHE:HD1	2.25	0.47
1:H:110:ILE:CD1	1:H:118:PHE:HZ	2.27	0.47
1:I:140:ILE:HD12	1:I:426:VAL:HG12	1.94	0.47
1:I:556:MET:HE3	1:I:614:ASN:HD21	1.79	0.47
1:J:110:ILE:CD1	1:J:118:PHE:HZ	2.27	0.47
1:J:357:PHE:CE2	1:J:361:HIS:CE1	3.03	0.47
1:K:111:GLN:CB	1:K:164:ILE:HD11	2.43	0.47
1:K:540:LEU:CB	1:K:541:ILE:HD12	2.43	0.47
1:L:106:THR:HG22	1:L:107:VAL:H	1.78	0.47
1:L:33:LEU:HD11	1:L:75:LEU:HD11	1.92	0.47
1:A:272:ARG:NH1	1:A:316:TYR:O	2.47	0.47
1:A:36:VAL:HB	1:A:59:LEU:HD23	1.96	0.47
1:A:172:HIS:ND1	1:A:532:SER:HB3	2.29	0.47
1:C:5:LYS:NZ	1:C:101:ASP:O	2.41	0.47
1:C:110:ILE:CD1	1:C:118:PHE:HZ	2.27	0.47
1:C:141:VAL:O	1:C:141:VAL:HG13	2.13	0.47
1:C:150:ILE:O	1:G:467:LEU:HD13	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:337:ARG:CB	1:C:151:LEU:CB	2.92	0.47
1:C:64:TYR:OH	1:C:94:VAL:HG12	2.15	0.47
1:C:8:ARG:NH2	1:C:69:PHE:HD2	2.03	0.47
1:E:76:CYS:SG	1:E:88:PHE:CZ	3.07	0.47
1:F:557:LEU:HD12	1:F:557:LEU:N	2.29	0.47
1:G:141:VAL:O	1:G:141:VAL:HG13	2.13	0.47
1:G:208:TYR:CE2	1:G:220:MET:CG	2.96	0.47
1:G:85:GLU:HG2	1:G:86:GLY:N	2.29	0.47
1:H:442:ILE:HG22	1:H:497:ILE:HB	1.96	0.47
1:H:513:THR:HG22	1:H:516:GLN:HG3	1.90	0.47
1:J:541:ILE:CG2	1:J:542:PRO:N	2.77	0.47
1:J:88:PHE:CD1	1:J:91:ALA:HB3	2.50	0.47
1:L:98:HIS:HD2	1:L:188:LYS:CE	2.27	0.47
1:L:61:VAL:HG23	1:L:62:ALA:N	2.29	0.47
1:M:541:ILE:CG2	1:M:542:PRO:N	2.77	0.47
1:C:282:ILE:HG23	1:C:292:LEU:HD21	1.96	0.47
1:C:282:ILE:HB	1:C:317:TYR:OH	2.14	0.47
1:C:357:PHE:CE2	1:C:361:HIS:CE1	3.03	0.47
1:D:110:ILE:CA	1:D:113:VAL:HG22	2.44	0.47
1:D:292:LEU:HB3	1:D:371:HIS:CE1	2.39	0.47
1:D:442:ILE:HG22	1:D:497:ILE:HB	1.96	0.47
1:E:172:HIS:ND1	1:E:532:SER:HB3	2.30	0.47
1:G:282:ILE:HG12	1:G:290:ILE:HG12	1.97	0.47
1:G:425:SER:OG	1:G:427:LYS:HE3	2.14	0.47
1:I:112:GLU:OE1	1:I:514:PHE:HD2	1.97	0.47
1:K:76:CYS:SG	1:K:88:PHE:CZ	3.07	0.47
1:L:157:LEU:HD11	1:L:217:LEU:HD12	1.95	0.47
1:L:208:TYR:CE2	1:L:220:MET:CG	2.96	0.47
1:L:267:VAL:HG13	1:L:270:ARG:NH2	2.29	0.47
1:M:357:PHE:CE2	1:M:361:HIS:CE1	3.03	0.47
1:A:266:MET:HA	1:A:269:TRP:CE3	2.49	0.47
1:A:541:ILE:CG2	1:A:542:PRO:N	2.77	0.47
1:A:557:LEU:N	1:A:557:LEU:HD12	2.29	0.47
1:C:442:ILE:HG22	1:C:497:ILE:HB	1.96	0.47
1:C:557:LEU:HD12	1:C:557:LEU:N	2.29	0.47
1:C:608:ALA:O	1:C:611:LEU:HD13	2.14	0.47
1:D:106:THR:HG22	1:D:107:VAL:H	1.78	0.47
1:D:208:TYR:CE2	1:D:220:MET:CG	2.96	0.47
1:D:277:ILE:HA	1:D:292:LEU:CD1	2.44	0.47
1:D:64:TYR:OH	1:D:94:VAL:HG12	2.15	0.47
1:F:34:LYS:HG3	1:F:35:GLY:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:605:ARG:NH2	1:G:38:ILE:HG22	2.22	0.47
1:H:253:TYR:CD2	1:I:253:TYR:HE1	2.30	0.47
1:H:558:THR:HG21	1:H:592:LYS:HZ2	1.79	0.47
1:I:282:ILE:HG12	1:I:290:ILE:HG12	1.97	0.47
1:I:395:ILE:HD11	1:I:620:ILE:HG21	1.95	0.47
1:J:173:TRP:NE1	1:J:196:LEU:CD2	2.78	0.47
1:J:276:ALA:HB1	1:J:282:ILE:HG22	1.95	0.47
1:J:282:ILE:HG12	1:J:290:ILE:HG12	1.97	0.47
1:L:357:PHE:CE2	1:L:361:HIS:CE1	3.03	0.47
1:L:53:LEU:HB3	1:L:180:THR:HG22	1.97	0.47
1:L:540:LEU:CB	1:L:541:ILE:HD12	2.43	0.47
1:L:9:LEU:CD1	1:L:69:PHE:HZ	2.17	0.47
1:M:13:PHE:CD2	1:M:108:PRO:HD2	2.48	0.47
1:M:402:VAL:HG23	1:M:402:VAL:O	2.14	0.47
1:A:357:PHE:CE2	1:A:361:HIS:CE1	3.03	0.47
1:C:9:LEU:HD22	1:C:105:ILE:CG1	2.45	0.47
1:D:13:PHE:CD2	1:D:108:PRO:HD2	2.48	0.47
1:E:110:ILE:CD1	1:E:118:PHE:HZ	2.27	0.47
1:E:208:TYR:CE2	1:E:220:MET:CG	2.96	0.47
1:E:395:ILE:HD11	1:E:620:ILE:HG21	1.95	0.47
1:F:110:ILE:CD1	1:F:118:PHE:HZ	2.27	0.47
1:F:24:LEU:HD13	1:F:78:GLN:HE21	1.79	0.47
1:G:166:ILE:HG22	1:G:352:LEU:HD13	1.90	0.47
1:G:173:TRP:NE1	1:G:196:LEU:CD2	2.78	0.47
1:G:402:VAL:O	1:G:402:VAL:HG23	2.14	0.47
1:G:553:LEU:HB2	1:G:620:ILE:HD12	1.95	0.47
1:G:395:ILE:HD11	1:G:620:ILE:HG21	1.95	0.47
1:H:411:LEU:CD2	1:H:429:LYS:HA	2.41	0.47
1:H:557:LEU:N	1:H:557:LEU:HD12	2.29	0.47
1:I:173:TRP:NE1	1:I:196:LEU:CD2	2.78	0.47
1:J:479:LEU:H	1:J:479:LEU:HD12	1.80	0.47
1:K:506:VAL:CG2	1:K:507:THR:HG23	2.33	0.47
1:L:141:VAL:HG13	1:L:141:VAL:O	2.13	0.47
1:L:261:VAL:HG12	1:L:262:ASP:O	2.15	0.47
1:L:526:ASP:CG	1:L:573:VAL:CG2	2.83	0.47
1:M:173:TRP:NE1	1:M:196:LEU:CD2	2.78	0.47
1:M:88:PHE:CD1	1:M:91:ALA:HB3	2.50	0.47
1:A:110:ILE:CD1	1:A:118:PHE:HZ	2.27	0.47
1:A:506:VAL:CG2	1:A:507:THR:HG23	2.33	0.47
1:C:249:ARG:HG2	1:C:250:PRO:O	2.15	0.47
1:C:606:THR:HG22	1:C:609:GLU:CG	2.42	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:100:GLU:HA	1:D:100:GLU:OE1	2.15	0.47
1:D:235:PRO:HB2	1:D:237:LEU:CD2	2.21	0.47
1:D:204:MET:HG2	1:D:535:TRP:CH2	2.50	0.47
1:D:61:VAL:HG23	1:D:62:ALA:N	2.29	0.47
1:E:219:ARG:HH22	1:E:465:ASP:CG	2.18	0.47
1:F:106:THR:HG22	1:F:107:VAL:H	1.78	0.47
1:F:357:PHE:CE2	1:F:361:HIS:CE1	3.03	0.47
1:F:8:ARG:NH2	1:F:69:PHE:HD2	2.03	0.47
1:I:103:LYS:NZ	1:I:524:SER:HB2	2.30	0.47
1:I:53:LEU:HB3	1:I:180:THR:HG22	1.97	0.47
1:I:200:MET:HE3	1:I:200:MET:HA	1.96	0.47
1:J:108:PRO:HA	1:J:109:PRO:HD3	1.81	0.47
1:L:238:THR:HG22	1:L:245:GLN:HB3	1.97	0.47
1:L:34:LYS:HG3	1:L:35:GLY:N	2.30	0.47
1:L:508:ILE:HD11	1:L:531:CYS:HA	1.97	0.47
1:M:141:VAL:O	1:M:141:VAL:HG13	2.13	0.47
1:M:425:SER:OG	1:M:427:LYS:HE3	2.14	0.47
1:M:112:GLU:OE1	1:M:514:PHE:HD2	1.97	0.47
1:C:526:ASP:HB2	1:C:574:CYS:HB2	1.97	0.47
1:A:150:ILE:O	1:D:467:LEU:HD12	2.15	0.47
1:D:60:TYR:HE1	1:D:94:VAL:CG2	2.26	0.47
1:F:558:THR:HG21	1:F:592:LYS:HZ2	1.79	0.47
1:H:506:VAL:CG2	1:H:507:THR:HG23	2.33	0.47
1:J:405:THR:CG2	1:J:624:PHE:HD1	2.25	0.47
1:K:264:GLN:HA	1:K:267:VAL:HB	1.97	0.47
1:K:402:VAL:HG23	1:K:402:VAL:O	2.14	0.47
1:K:479:LEU:HD12	1:K:479:LEU:H	1.80	0.47
1:L:219:ARG:HH22	1:L:465:ASP:CG	2.19	0.47
1:M:204:MET:HG2	1:M:535:TRP:CH2	2.49	0.47
1:M:282:ILE:HG12	1:M:290:ILE:HG12	1.97	0.47
1:M:442:ILE:HG22	1:M:497:ILE:HB	1.96	0.47
1:A:109:PRO:HB2	1:A:112:GLU:CB	2.40	0.47
1:A:61:VAL:HG23	1:A:62:ALA:N	2.29	0.47
1:C:173:TRP:NE1	1:C:196:LEU:CD2	2.78	0.47
1:C:559:ASP:O	1:C:562:GLU:HB3	2.15	0.47
1:D:173:TRP:NE1	1:D:196:LEU:CD2	2.78	0.47
1:D:606:THR:HG22	1:D:609:GLU:CG	2.42	0.47
1:D:76:CYS:SG	1:D:88:PHE:CZ	3.07	0.47
1:F:425:SER:OG	1:F:427:LYS:HE3	2.14	0.47
1:F:530:TYR:CD2	1:F:531:CYS:SG	3.06	0.47
1:H:277:ILE:HA	1:H:292:LEU:HD11	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:53:LEU:HB3	1:H:180:THR:HG22	1.97	0.47
1:H:64:TYR:OH	1:H:94:VAL:HG12	2.15	0.47
1:J:19:LEU:HD13	1:J:80:ARG:HD2	1.97	0.47
1:K:100:GLU:HA	1:K:100:GLU:OE1	2.15	0.47
1:K:197:PHE:HE2	1:K:305:ILE:HD11	1.80	0.47
1:M:411:LEU:HD23	1:M:429:LYS:CA	2.42	0.47
1:M:411:LEU:HD21	1:M:429:LYS:HB2	1.97	0.47
1:A:382:GLU:HA	1:A:382:GLU:OE1	2.15	0.47
1:A:411:LEU:HD23	1:A:429:LYS:CA	2.42	0.47
1:A:405:THR:CG2	1:A:624:PHE:HD1	2.26	0.47
1:C:110:ILE:CA	1:C:113:VAL:HG22	2.44	0.47
1:C:292:LEU:HB3	1:C:371:HIS:CE1	2.39	0.47
1:C:411:LEU:HD21	1:C:429:LYS:HB2	1.97	0.47
1:C:395:ILE:HD11	1:C:620:ILE:HB	1.97	0.47
1:F:411:LEU:HD23	1:F:429:LYS:CA	2.42	0.47
1:G:34:LYS:HG3	1:G:35:GLY:N	2.30	0.47
1:G:88:PHE:CD1	1:G:91:ALA:HB3	2.50	0.47
1:H:414:LEU:CB	1:H:426:VAL:HG23	2.28	0.47
1:I:382:GLU:HA	1:I:382:GLU:OE1	2.15	0.47
1:I:64:TYR:OH	1:I:94:VAL:HG12	2.15	0.47
1:J:12:LEU:HD22	1:J:76:CYS:SG	2.55	0.47
1:J:506:VAL:CG2	1:J:507:THR:HG23	2.33	0.47
1:K:172:HIS:ND1	1:K:532:SER:HB3	2.30	0.47
1:K:61:VAL:HG23	1:K:62:ALA:N	2.29	0.47
1:L:530:TYR:CD2	1:L:531:CYS:SG	3.06	0.47
1:L:172:HIS:ND1	1:L:532:SER:HB3	2.29	0.47
1:L:405:THR:CG2	1:L:624:PHE:HD1	2.26	0.47
1:M:223:PHE:N	1:M:359:ARG:HG2	2.30	0.47
1:A:292:LEU:HB3	1:A:371:HIS:CE1	2.39	0.46
1:D:5:LYS:NZ	1:D:101:ASP:O	2.43	0.46
1:D:268:ARG:O	1:D:272:ARG:HG3	2.14	0.46
1:D:34:LYS:HG3	1:D:35:GLY:N	2.29	0.46
1:D:360:TRP:O	1:D:363:PHE:HB3	2.15	0.46
1:D:526:ASP:CG	1:D:573:VAL:CG2	2.83	0.46
1:E:357:PHE:CE2	1:E:361:HIS:CE1	3.03	0.46
1:F:360:TRP:O	1:F:363:PHE:HB3	2.15	0.46
1:F:64:TYR:OH	1:F:94:VAL:HG12	2.15	0.46
1:G:357:PHE:CE2	1:G:361:HIS:CE1	3.03	0.46
1:H:9:LEU:HD22	1:H:105:ILE:CG1	2.44	0.46
1:H:109:PRO:HB2	1:H:112:GLU:CB	2.40	0.46
1:H:251:GLU:HB3	1:I:337:ARG:HH21	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:357:PHE:CE2	1:H:361:HIS:CE1	3.03	0.46
1:H:382:GLU:HA	1:H:382:GLU:OE1	2.15	0.46
1:H:61:VAL:HG23	1:H:62:ALA:N	2.29	0.46
1:I:61:VAL:HG23	1:I:62:ALA:N	2.29	0.46
1:J:110:ILE:CA	1:J:113:VAL:HG22	2.44	0.46
1:J:34:LYS:HG3	1:J:35:GLY:N	2.30	0.46
1:J:402:VAL:HG23	1:J:402:VAL:O	2.14	0.46
1:J:442:ILE:HG22	1:J:497:ILE:HB	1.97	0.46
1:L:382:GLU:HA	1:L:382:GLU:OE1	2.15	0.46
1:L:402:VAL:O	1:L:402:VAL:HG23	2.14	0.46
1:M:360:TRP:O	1:M:363:PHE:HB3	2.15	0.46
1:A:100:GLU:HA	1:A:100:GLU:OE1	2.15	0.46
1:A:98:HIS:HD2	1:A:188:LYS:CE	2.28	0.46
1:A:556:MET:HE3	1:A:614:ASN:HD21	1.79	0.46
1:D:357:PHE:CE2	1:D:361:HIS:CE1	3.03	0.46
1:D:404:THR:CG2	1:D:406:LEU:HD11	2.45	0.46
1:E:307:SER:HB3	1:E:308:SER:HA	1.97	0.46
1:E:526:ASP:CG	1:E:573:VAL:CG2	2.83	0.46
1:E:467:LEU:HD12	1:F:151:LEU:HA	1.96	0.46
1:F:404:THR:CG2	1:F:406:LEU:HD11	2.45	0.46
1:G:405:THR:HG22	1:G:624:PHE:HA	1.96	0.46
1:G:9:LEU:CD1	1:G:69:PHE:HZ	2.17	0.46
1:I:405:THR:CG2	1:I:624:PHE:HD1	2.25	0.46
1:J:382:GLU:HA	1:J:382:GLU:OE1	2.15	0.46
1:K:113:VAL:CG2	1:K:114:PHE:CD2	2.96	0.46
1:K:357:PHE:CE2	1:K:361:HIS:CE1	3.03	0.46
1:K:382:GLU:HA	1:K:382:GLU:OE1	2.15	0.46
1:L:360:TRP:O	1:L:363:PHE:HB3	2.15	0.46
1:M:110:ILE:CA	1:M:113:VAL:HG22	2.44	0.46
1:M:8:ARG:NH2	1:M:69:PHE:HD2	2.03	0.46
1:C:292:LEU:HD23	1:C:300:ILE:CD1	2.46	0.46
1:C:479:LEU:HD12	1:C:479:LEU:H	1.80	0.46
1:D:425:SER:OG	1:D:427:LYS:HE3	2.14	0.46
1:F:110:ILE:CA	1:F:113:VAL:HG22	2.44	0.46
1:F:204:MET:HG2	1:F:535:TRP:CH2	2.50	0.46
1:F:248:SER:OG	1:G:340:GLU:OE1	2.30	0.46
1:G:360:TRP:O	1:G:363:PHE:HB3	2.16	0.46
1:G:87:MET:HE3	1:G:87:MET:HB3	1.70	0.46
1:H:200:MET:HE3	1:H:200:MET:HA	1.97	0.46
1:I:357:PHE:CE2	1:I:361:HIS:CE1	3.03	0.46
1:I:395:ILE:HD11	1:I:620:ILE:HB	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:151:LEU:HB2	1:K:337:ARG:HA	1.97	0.46
1:J:208:TYR:CE2	1:J:220:MET:CG	2.96	0.46
1:J:292:LEU:HD23	1:J:300:ILE:CD1	2.46	0.46
1:J:360:TRP:O	1:J:363:PHE:HB3	2.16	0.46
1:K:53:LEU:HB3	1:K:180:THR:HG22	1.96	0.46
1:K:204:MET:HG2	1:K:535:TRP:CH2	2.50	0.46
1:L:292:LEU:HD23	1:L:300:ILE:CD1	2.46	0.46
1:L:204:MET:HG2	1:L:535:TRP:CH2	2.50	0.46
1:A:17:THR:CG2	1:A:241:VAL:HB	2.41	0.46
1:A:92:VAL:O	1:A:96:VAL:HG23	2.15	0.46
1:D:395:ILE:HD11	1:D:620:ILE:HB	1.98	0.46
1:D:414:LEU:CB	1:D:426:VAL:HG23	2.28	0.46
1:E:411:LEU:HD21	1:E:429:LYS:HB2	1.97	0.46
1:E:442:ILE:HG22	1:E:497:ILE:HB	1.96	0.46
1:E:64:TYR:OH	1:E:94:VAL:HG12	2.15	0.46
1:F:100:GLU:OE1	1:F:100:GLU:HA	2.15	0.46
1:F:288:ASN:N	1:F:288:ASN:HD22	2.14	0.46
1:G:255:ILE:HA	1:G:331:ILE:CD1	2.46	0.46
1:G:292:LEU:HD23	1:G:300:ILE:CD1	2.46	0.46
1:G:479:LEU:H	1:G:479:LEU:HD12	1.80	0.46
1:I:113:VAL:CG2	1:I:114:PHE:CD2	2.96	0.46
1:I:267:VAL:HG13	1:I:270:ARG:HH12	1.80	0.46
1:I:405:THR:HG22	1:I:624:PHE:HA	1.96	0.46
1:J:219:ARG:HH22	1:J:465:ASP:CG	2.18	0.46
1:K:110:ILE:CA	1:K:113:VAL:HG22	2.44	0.46
1:L:173:TRP:NE1	1:L:196:LEU:CD2	2.78	0.46
1:L:268:ARG:O	1:L:272:ARG:HG3	2.16	0.46
1:L:442:ILE:HG22	1:L:497:ILE:HB	1.96	0.46
1:L:64:TYR:OH	1:L:94:VAL:HG12	2.15	0.46
1:A:212:ARG:CZ	1:A:220:MET:HE3	2.45	0.46
1:A:402:VAL:HG23	1:A:402:VAL:O	2.14	0.46
1:C:382:GLU:OE1	1:C:382:GLU:HA	2.15	0.46
1:D:172:HIS:ND1	1:D:532:SER:HB3	2.29	0.46
1:D:53:LEU:HB3	1:D:180:THR:HG22	1.97	0.46
1:D:617:LEU:HD12	1:D:617:LEU:N	2.30	0.46
1:E:204:MET:HG2	1:E:535:TRP:CH2	2.50	0.46
1:E:255:ILE:HD12	1:E:331:ILE:HD13	1.96	0.46
1:E:402:VAL:HG23	1:E:402:VAL:O	2.14	0.46
1:E:508:ILE:HD11	1:E:531:CYS:HA	1.97	0.46
1:E:8:ARG:NH2	1:E:69:PHE:HD2	2.03	0.46
1:F:173:TRP:NE1	1:F:196:LEU:CD2	2.78	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:479:LEU:H	1:F:479:LEU:HD12	1.80	0.46
1:G:300:ILE:HG22	1:G:312:LYS:HZ1	1.79	0.46
1:H:100:GLU:OE1	1:H:100:GLU:HA	2.15	0.46
1:H:395:ILE:HD11	1:H:620:ILE:HB	1.98	0.46
1:I:360:TRP:O	1:I:363:PHE:HB3	2.15	0.46
1:K:360:TRP:O	1:K:363:PHE:HB3	2.16	0.46
1:L:617:LEU:N	1:L:617:LEU:HD12	2.31	0.46
1:M:463:LYS:HA	1:M:471:LEU:HD21	1.96	0.46
1:M:395:ILE:HD11	1:M:620:ILE:HB	1.98	0.46
1:A:406:LEU:HD12	1:A:406:LEU:N	2.31	0.46
1:A:411:LEU:HD21	1:A:429:LYS:HB2	1.97	0.46
1:A:462:PRO:HD2	1:A:479:LEU:HB3	1.98	0.46
1:A:204:MET:HG2	1:A:535:TRP:CH2	2.51	0.46
1:C:360:TRP:O	1:C:363:PHE:HB3	2.15	0.46
1:C:38:ILE:HG13	1:D:605:ARG:CZ	2.45	0.46
1:D:276:ALA:HB1	1:D:282:ILE:HG22	1.98	0.46
1:D:382:GLU:HA	1:D:382:GLU:OE1	2.16	0.46
1:D:411:LEU:HD21	1:D:429:LYS:HB2	1.98	0.46
1:E:173:TRP:NE1	1:E:196:LEU:CD2	2.78	0.46
1:E:382:GLU:HA	1:E:382:GLU:OE1	2.15	0.46
1:E:406:LEU:N	1:E:406:LEU:HD12	2.31	0.46
1:F:406:LEU:HD12	1:F:406:LEU:N	2.31	0.46
1:H:360:TRP:O	1:H:363:PHE:HB3	2.15	0.46
1:H:112:GLU:OE1	1:H:514:PHE:HD2	1.97	0.46
1:H:617:LEU:HD12	1:H:617:LEU:N	2.30	0.46
1:I:402:VAL:O	1:I:402:VAL:HG23	2.14	0.46
1:J:80:ARG:HB2	1:J:88:PHE:HD2	1.80	0.46
1:K:411:LEU:HD21	1:K:429:LYS:HB2	1.97	0.46
1:K:467:LEU:HD23	1:K:470:LYS:HE3	1.97	0.46
1:K:470:LYS:NZ	1:K:475:GLU:OE2	2.49	0.46
1:K:617:LEU:N	1:K:617:LEU:HD12	2.30	0.46
1:L:100:GLU:HA	1:L:100:GLU:OE1	2.15	0.46
1:L:110:ILE:CA	1:L:113:VAL:HG22	2.44	0.46
1:L:137:GLN:OE1	1:L:137:GLN:HA	2.16	0.46
1:L:526:ASP:CG	1:L:573:VAL:HG23	2.35	0.46
1:M:479:LEU:HD12	1:M:479:LEU:H	1.80	0.46
1:A:151:LEU:O	1:A:153:PRO:HD3	2.15	0.46
1:A:240:LEU:HD13	1:A:418:ILE:CG2	2.39	0.46
1:A:379:THR:HG22	1:A:380:LYS:H	1.81	0.46
1:A:616:GLY:O	1:A:617:LEU:HD12	2.16	0.46
1:C:137:GLN:OE1	1:C:137:GLN:HA	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:292:LEU:HD23	1:E:300:ILE:HD12	1.98	0.46
1:E:304:ILE:HG23	1:E:312:LYS:H	1.80	0.46
1:E:526:ASP:CG	1:E:573:VAL:HG23	2.35	0.46
1:E:395:ILE:HD11	1:E:620:ILE:HB	1.98	0.46
1:F:108:PRO:HA	1:F:109:PRO:HD3	1.82	0.46
1:F:382:GLU:OE1	1:F:382:GLU:HA	2.16	0.46
1:F:411:LEU:HD21	1:F:429:LYS:HB2	1.98	0.46
1:F:395:ILE:HD11	1:F:620:ILE:HB	1.98	0.46
1:G:137:GLN:OE1	1:G:137:GLN:HA	2.16	0.46
1:G:59:LEU:HB2	1:G:91:ALA:HB2	1.92	0.46
1:H:402:VAL:HG23	1:H:402:VAL:O	2.14	0.46
1:I:219:ARG:HH22	1:I:465:ASP:CG	2.19	0.46
1:I:404:THR:CG2	1:I:406:LEU:HD11	2.45	0.46
1:I:411:LEU:HD23	1:I:429:LYS:CA	2.42	0.46
1:J:406:LEU:N	1:J:406:LEU:HD12	2.31	0.46
1:J:540:LEU:CG	1:J:541:ILE:CD1	2.94	0.46
1:K:276:ALA:HB1	1:K:282:ILE:HG22	1.98	0.46
1:K:405:THR:HG22	1:K:624:PHE:HA	1.96	0.46
1:L:395:ILE:HD11	1:L:620:ILE:HB	1.98	0.46
1:M:406:LEU:N	1:M:406:LEU:HD12	2.31	0.46
1:A:282:ILE:CG1	1:A:290:ILE:CG1	2.94	0.46
1:A:395:ILE:HD11	1:A:620:ILE:HB	1.98	0.46
1:A:470:LYS:NZ	1:A:475:GLU:OE2	2.49	0.46
1:C:411:LEU:HD23	1:C:429:LYS:CA	2.42	0.46
1:C:508:ILE:HD11	1:C:531:CYS:HA	1.98	0.46
1:C:61:VAL:HG23	1:C:62:ALA:N	2.29	0.46
1:F:53:LEU:HB3	1:F:180:THR:HG22	1.96	0.46
1:F:282:ILE:CG1	1:F:290:ILE:CG1	2.94	0.46
1:F:292:LEU:HB3	1:F:371:HIS:CE1	2.39	0.46
1:F:462:PRO:HD2	1:F:479:LEU:HB3	1.98	0.46
1:F:405:THR:HG22	1:F:624:PHE:HA	1.96	0.46
1:G:379:THR:HG22	1:G:380:LYS:H	1.81	0.46
1:G:558:THR:HG21	1:G:592:LYS:HZ2	1.79	0.46
1:G:395:ILE:HD11	1:G:620:ILE:HB	1.98	0.46
1:H:200:MET:HE2	1:H:200:MET:O	2.16	0.46
1:H:204:MET:HG2	1:H:535:TRP:CH2	2.50	0.46
1:H:395:ILE:HD11	1:H:620:ILE:HG21	1.95	0.46
1:I:100:GLU:HA	1:I:100:GLU:OE1	2.15	0.46
1:I:244:LEU:H	1:I:244:LEU:CD1	2.29	0.46
1:I:379:THR:HG22	1:I:380:LYS:H	1.81	0.46
1:I:411:LEU:HD21	1:I:429:LYS:HB2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:470:LYS:NZ	1:I:475:GLU:OE2	2.49	0.46
1:I:617:LEU:N	1:I:617:LEU:HD12	2.30	0.46
1:J:404:THR:CG2	1:J:406:LEU:HD11	2.45	0.46
1:J:462:PRO:HD2	1:J:479:LEU:HB3	1.98	0.46
1:K:111:GLN:HA	1:K:118:PHE:CD1	2.51	0.46
1:K:64:TYR:OH	1:K:94:VAL:HG12	2.15	0.46
1:L:160:PHE:CD2	1:L:539:MET:HE1	2.50	0.46
1:M:34:LYS:HG3	1:M:35:GLY:N	2.30	0.46
1:M:382:GLU:HA	1:M:382:GLU:OE1	2.15	0.46
1:A:282:ILE:HG12	1:A:290:ILE:HG12	1.97	0.46
1:C:530:TYR:HD1	1:C:574:CYS:HB3	1.81	0.46
1:D:209:ASP:O	1:D:213:LEU:HD13	2.16	0.46
1:E:100:GLU:HA	1:E:100:GLU:OE1	2.15	0.46
1:E:19:LEU:CD2	1:E:80:ARG:CD	2.94	0.46
1:F:268:ARG:HD2	1:F:272:ARG:NH2	2.31	0.46
1:F:223:PHE:CB	1:F:359:ARG:HG2	2.41	0.46
1:G:271:GLU:O	1:G:275:ASP:HB2	2.16	0.46
1:G:277:ILE:HA	1:G:292:LEU:CD1	2.46	0.46
1:G:523:VAL:N	1:G:524:SER:HA	2.30	0.46
1:H:411:LEU:HD21	1:H:429:LYS:HB2	1.98	0.46
1:I:277:ILE:HA	1:I:292:LEU:HD11	1.98	0.46
1:J:470:LYS:NZ	1:J:475:GLU:OE2	2.49	0.46
1:J:616:GLY:O	1:J:617:LEU:HD12	2.16	0.46
1:K:404:THR:CG2	1:K:406:LEU:HD11	2.46	0.46
1:K:540:LEU:CG	1:K:541:ILE:CD1	2.94	0.46
1:K:616:GLY:O	1:K:617:LEU:HD12	2.16	0.46
1:L:395:ILE:HD11	1:L:620:ILE:HG21	1.95	0.46
1:A:404:THR:CG2	1:A:406:LEU:HD11	2.45	0.46
1:A:69:PHE:O	1:A:73:ILE:HG12	2.16	0.46
1:C:470:LYS:NZ	1:C:475:GLU:OE2	2.49	0.46
1:C:616:GLY:O	1:C:617:LEU:HD12	2.16	0.46
1:E:360:TRP:O	1:E:363:PHE:HB3	2.16	0.46
1:E:490:LEU:HD12	1:E:490:LEU:N	2.31	0.46
1:E:53:LEU:HB3	1:E:180:THR:HG22	1.96	0.46
1:F:402:VAL:HG23	1:F:402:VAL:O	2.14	0.46
1:F:470:LYS:NZ	1:F:475:GLU:OE2	2.49	0.46
1:F:540:LEU:CG	1:F:541:ILE:CD1	2.94	0.46
1:G:382:GLU:HA	1:G:382:GLU:OE1	2.15	0.46
1:G:406:LEU:HD12	1:G:406:LEU:N	2.31	0.46
1:H:250:PRO:HG3	1:I:332:THR:OG1	2.15	0.46
1:H:282:ILE:HG12	1:H:290:ILE:HG12	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:7:ALA:O	1:I:11:PRO:HD2	2.15	0.46
1:I:235:PRO:HB2	1:I:237:LEU:CD2	2.21	0.46
1:I:620:ILE:HD13	1:I:620:ILE:N	2.19	0.46
1:J:8:ARG:NH2	1:J:69:PHE:HD2	2.03	0.46
1:K:106:THR:HG22	1:K:107:VAL:H	1.78	0.46
1:K:123:THR:CB	1:K:428:VAL:HG21	2.46	0.46
1:K:540:LEU:HD23	1:K:541:ILE:CD1	2.47	0.46
1:K:395:ILE:HD11	1:K:620:ILE:HB	1.98	0.46
1:L:109:PRO:HB2	1:L:112:GLU:CB	2.40	0.46
1:L:113:VAL:CG2	1:L:114:PHE:CD2	2.96	0.46
1:K:151:LEU:HD13	1:L:467:LEU:HD11	1.97	0.46
1:M:59:LEU:CG	1:M:91:ALA:CB	2.94	0.46
1:A:173:TRP:NE1	1:A:196:LEU:CD2	2.78	0.45
1:A:490:LEU:HD12	1:A:490:LEU:N	2.32	0.45
1:A:540:LEU:HD23	1:A:541:ILE:CD1	2.47	0.45
1:C:406:LEU:N	1:C:406:LEU:HD12	2.31	0.45
1:C:611:LEU:HD12	1:C:611:LEU:H	1.82	0.45
1:C:99:ARG:HH11	1:C:99:ARG:HB2	1.82	0.45
1:D:137:GLN:OE1	1:D:137:GLN:HA	2.16	0.45
1:D:526:ASP:CG	1:D:573:VAL:HG23	2.36	0.45
1:D:395:ILE:HD11	1:D:620:ILE:HG21	1.95	0.45
1:F:254:SER:O	1:F:331:ILE:HD11	2.15	0.45
1:F:540:LEU:HD23	1:F:541:ILE:CD1	2.46	0.45
1:G:404:THR:CG2	1:G:406:LEU:HD11	2.45	0.45
1:G:540:LEU:HD23	1:G:541:ILE:CD1	2.46	0.45
1:H:137:GLN:HA	1:H:137:GLN:OE1	2.16	0.45
1:H:173:TRP:NE1	1:H:196:LEU:CD2	2.78	0.45
1:H:404:THR:CG2	1:H:406:LEU:HD11	2.45	0.45
1:I:462:PRO:HD2	1:I:479:LEU:HB3	1.98	0.45
1:I:55:GLU:CB	1:I:87:MET:SD	3.05	0.45
1:J:617:LEU:HD12	1:J:617:LEU:N	2.30	0.45
1:K:406:LEU:HD12	1:K:406:LEU:N	2.31	0.45
1:L:406:LEU:N	1:L:406:LEU:HD12	2.31	0.45
1:L:490:LEU:N	1:L:490:LEU:HD12	2.32	0.45
1:L:9:LEU:HD22	1:L:105:ILE:CG1	2.46	0.45
1:A:442:ILE:HG22	1:A:497:ILE:HB	1.96	0.45
1:A:554:PHE:HD1	1:A:617:LEU:HD11	1.82	0.45
1:D:292:LEU:HD23	1:D:300:ILE:CD1	2.46	0.45
1:D:470:LYS:NZ	1:D:475:GLU:OE2	2.49	0.45
1:D:9:LEU:HD22	1:D:105:ILE:CG1	2.45	0.45
1:E:404:THR:CG2	1:E:406:LEU:HD11	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:540:LEU:CG	1:E:541:ILE:CD1	2.94	0.45
1:E:99:ARG:HB2	1:E:99:ARG:HH11	1.82	0.45
1:F:64:TYR:HE1	1:F:98:HIS:HB2	1.78	0.45
1:G:209:ASP:O	1:G:213:LEU:HD13	2.16	0.45
1:G:411:LEU:CD2	1:G:429:LYS:CB	2.95	0.45
1:I:277:ILE:HA	1:I:292:LEU:CD1	2.46	0.45
1:I:554:PHE:HD1	1:I:617:LEU:HD11	1.82	0.45
1:H:605:ARG:HH22	1:K:38:ILE:HD12	1.82	0.45
1:K:462:PRO:HD2	1:K:479:LEU:HB3	1.98	0.45
1:L:5:LYS:NZ	1:L:101:ASP:O	2.43	0.45
1:M:292:LEU:CD2	1:M:300:ILE:CD1	2.94	0.45
1:M:404:THR:CG2	1:M:406:LEU:HD11	2.45	0.45
1:A:113:VAL:CG2	1:A:114:PHE:CD2	2.96	0.45
1:A:292:LEU:HD23	1:A:300:ILE:CD1	2.46	0.45
1:A:19:LEU:CD2	1:A:80:ARG:CG	2.95	0.45
1:C:209:ASP:O	1:C:213:LEU:HD13	2.16	0.45
1:C:617:LEU:N	1:C:617:LEU:HD12	2.30	0.45
1:D:99:ARG:HB2	1:D:99:ARG:HH11	1.82	0.45
1:E:137:GLN:HA	1:E:137:GLN:OE1	2.16	0.45
1:E:479:LEU:HD12	1:E:479:LEU:H	1.81	0.45
1:E:530:TYR:CD2	1:E:531:CYS:SG	3.05	0.45
1:E:558:THR:HG21	1:E:592:LYS:HZ2	1.80	0.45
1:E:611:LEU:HD12	1:E:611:LEU:H	1.82	0.45
1:F:300:ILE:HG22	1:F:312:LYS:HZ1	1.82	0.45
1:F:9:LEU:HD22	1:F:105:ILE:CG1	2.46	0.45
1:G:611:LEU:HD12	1:G:611:LEU:H	1.81	0.45
1:G:616:GLY:O	1:G:617:LEU:HD12	2.16	0.45
1:G:8:ARG:NH2	1:G:69:PHE:HD2	2.03	0.45
1:G:80:ARG:HB2	1:G:88:PHE:HD2	1.81	0.45
1:H:55:GLU:CB	1:H:87:MET:SD	3.05	0.45
1:I:137:GLN:HA	1:I:137:GLN:OE1	2.16	0.45
1:I:490:LEU:HD12	1:I:490:LEU:N	2.32	0.45
1:J:209:ASP:O	1:J:213:LEU:HD13	2.17	0.45
1:J:411:LEU:HD23	1:J:429:LYS:CA	2.42	0.45
1:K:98:HIS:NE2	1:K:190:LYS:CE	2.80	0.45
1:K:270:ARG:NH1	1:M:264:GLN:OE1	2.50	0.45
1:L:7:ALA:HA	1:L:10:MET:HE3	1.96	0.45
1:K:271:GLU:OE2	1:M:268:ARG:HD3	2.17	0.45
1:M:268:ARG:O	1:M:272:ARG:HG3	2.16	0.45
1:M:470:LYS:NZ	1:M:475:GLU:OE2	2.49	0.45
1:A:6:GLN:NE2	1:A:105:ILE:HA	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:360:TRP:O	1:A:363:PHE:HB3	2.16	0.45
1:A:611:LEU:HD12	1:A:611:LEU:H	1.82	0.45
1:A:617:LEU:N	1:A:617:LEU:HD12	2.30	0.45
1:C:100:GLU:OE1	1:C:100:GLU:HA	2.15	0.45
1:C:201:HIS:HA	1:C:204:MET:HE2	1.98	0.45
1:C:313:ASN:O	1:C:317:TYR:HB2	2.16	0.45
1:C:462:PRO:HD2	1:C:479:LEU:HB3	1.98	0.45
1:C:554:PHE:HD1	1:C:617:LEU:HD11	1.81	0.45
1:C:55:GLU:CB	1:C:87:MET:SD	3.05	0.45
1:D:490:LEU:HD12	1:D:490:LEU:N	2.32	0.45
1:E:407:ILE:CG1	1:E:431:HIS:HB3	2.47	0.45
1:E:462:PRO:HD2	1:E:479:LEU:HB3	1.98	0.45
1:E:470:LYS:NZ	1:E:475:GLU:OE2	2.49	0.45
1:E:540:LEU:HD23	1:E:541:ILE:CD1	2.47	0.45
1:E:616:GLY:O	1:E:617:LEU:HD12	2.16	0.45
1:F:212:ARG:CZ	1:F:220:MET:CE	2.95	0.45
1:F:276:ALA:HB1	1:F:282:ILE:HG22	1.99	0.45
1:F:508:ILE:HD11	1:F:531:CYS:HA	1.97	0.45
1:F:19:LEU:CD2	1:F:80:ARG:HD2	2.40	0.45
1:G:490:LEU:HD12	1:G:490:LEU:N	2.31	0.45
1:G:508:ILE:HB	1:G:533:CYS:O	2.17	0.45
1:J:137:GLN:HA	1:J:137:GLN:OE1	2.16	0.45
1:K:209:ASP:O	1:K:213:LEU:HD13	2.17	0.45
1:L:379:THR:HG22	1:L:380:LYS:H	1.81	0.45
1:M:292:LEU:HD23	1:M:300:ILE:CD1	2.46	0.45
1:M:38:ILE:HD11	1:M:55:GLU:HB3	1.98	0.45
1:A:240:LEU:H	1:A:240:LEU:CD2	2.29	0.45
1:A:244:LEU:CD1	1:A:244:LEU:H	2.29	0.45
1:A:405:THR:HG22	1:A:624:PHE:HA	1.96	0.45
1:A:19:LEU:CD2	1:A:80:ARG:CD	2.94	0.45
1:C:223:PHE:CB	1:C:359:ARG:HG2	2.41	0.45
1:C:379:THR:HG22	1:C:380:LYS:H	1.81	0.45
1:C:68:ASP:OD1	1:C:71:ASP:HB2	2.17	0.45
1:D:508:ILE:HD11	1:D:531:CYS:HA	1.97	0.45
1:E:209:ASP:O	1:E:213:LEU:HD13	2.16	0.45
1:E:282:ILE:CG1	1:E:290:ILE:CG1	2.94	0.45
1:F:197:PHE:CE1	1:F:201:HIS:CE1	3.05	0.45
1:F:490:LEU:HD12	1:F:490:LEU:N	2.31	0.45
1:H:411:LEU:CD2	1:H:429:LYS:CB	2.95	0.45
1:H:554:PHE:HD1	1:H:617:LEU:HD11	1.81	0.45
1:I:611:LEU:HD12	1:I:611:LEU:H	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:616:GLY:O	1:I:617:LEU:HD12	2.16	0.45
1:J:611:LEU:HD12	1:J:611:LEU:H	1.82	0.45
1:K:55:GLU:CB	1:K:87:MET:SD	3.05	0.45
1:L:201:HIS:HA	1:L:204:MET:HE3	1.99	0.45
1:L:19:LEU:CD2	1:L:80:ARG:HD2	2.40	0.45
1:A:395:ILE:HD11	1:A:620:ILE:HG21	1.95	0.45
1:C:53:LEU:HB3	1:C:180:THR:HG22	1.97	0.45
1:C:404:THR:CG2	1:C:406:LEU:HD11	2.46	0.45
1:D:212:ARG:CZ	1:D:220:MET:CE	2.95	0.45
1:D:379:THR:HG22	1:D:380:LYS:H	1.81	0.45
1:D:407:ILE:CG1	1:D:431:HIS:HB3	2.47	0.45
1:E:197:PHE:CE1	1:E:201:HIS:CE1	3.05	0.45
1:F:212:ARG:CZ	1:F:220:MET:HE3	2.46	0.45
1:F:407:ILE:CG1	1:F:431:HIS:HB3	2.47	0.45
1:G:285:LYS:HE2	1:G:315:GLU:HG2	1.99	0.45
1:G:462:PRO:HD2	1:G:479:LEU:HB3	1.98	0.45
1:H:197:PHE:CE1	1:H:201:HIS:CE1	3.05	0.45
1:H:212:ARG:CZ	1:H:220:MET:CE	2.95	0.45
1:H:379:THR:HG22	1:H:380:LYS:H	1.81	0.45
1:H:508:ILE:HD11	1:H:531:CYS:HA	1.98	0.45
1:J:197:PHE:CE1	1:J:201:HIS:CE1	3.05	0.45
1:J:395:ILE:HD11	1:J:620:ILE:HB	1.98	0.45
1:K:99:ARG:HB2	1:K:99:ARG:HH11	1.82	0.45
1:L:212:ARG:CZ	1:L:220:MET:CE	2.95	0.45
1:M:540:LEU:CG	1:M:541:ILE:CD1	2.94	0.45
1:A:212:ARG:CD	1:A:220:MET:HG2	2.47	0.45
1:A:69:PHE:CE2	1:A:73:ILE:HD11	2.51	0.45
1:C:19:LEU:CD2	1:C:80:ARG:HD2	2.40	0.45
1:D:19:LEU:CD2	1:D:80:ARG:CD	2.94	0.45
1:E:20:THR:CG2	1:E:21:ARG:N	2.79	0.45
1:F:411:LEU:CD2	1:F:429:LYS:CB	2.95	0.45
1:G:59:LEU:CG	1:G:91:ALA:CB	2.94	0.45
1:H:371:HIS:NE2	1:H:375:PHE:CE1	2.85	0.45
1:H:411:LEU:HD23	1:H:429:LYS:CA	2.42	0.45
1:H:479:LEU:HD12	1:H:479:LEU:H	1.80	0.45
1:H:611:LEU:H	1:H:611:LEU:HD12	1.82	0.45
1:H:99:ARG:HB2	1:H:99:ARG:HH11	1.82	0.45
1:I:292:LEU:HD23	1:I:300:ILE:CD1	2.46	0.45
1:I:408:LYS:HZ2	1:I:408:LYS:HB2	1.81	0.45
1:J:212:ARG:CD	1:J:220:MET:HG2	2.47	0.45
1:J:411:LEU:HD21	1:J:429:LYS:HB2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:68:ASP:OD1	1:J:71:ASP:HB2	2.17	0.45
1:J:59:LEU:CG	1:J:91:ALA:CB	2.94	0.45
1:K:300:ILE:O	1:K:304:ILE:HD12	2.17	0.45
1:K:442:ILE:HG22	1:K:497:ILE:HB	1.96	0.45
1:L:470:LYS:NZ	1:L:475:GLU:OE2	2.49	0.45
1:L:611:LEU:H	1:L:611:LEU:HD12	1.81	0.45
1:L:616:GLY:O	1:L:617:LEU:HD12	2.16	0.45
1:M:30:ASP:OD2	1:M:33:LEU:HD13	2.17	0.45
1:M:33:LEU:HD23	1:M:79:ALA:HB2	1.98	0.45
1:M:407:ILE:CG1	1:M:431:HIS:HB3	2.47	0.45
1:M:508:ILE:HB	1:M:533:CYS:O	2.17	0.45
1:M:540:LEU:HD23	1:M:541:ILE:CD1	2.47	0.45
1:M:617:LEU:N	1:M:617:LEU:HD12	2.30	0.45
1:A:137:GLN:OE1	1:A:137:GLN:HA	2.16	0.45
1:A:264:GLN:NE2	1:G:224:HIS:HE1	2.15	0.45
1:D:55:GLU:CB	1:D:87:MET:SD	3.05	0.45
1:D:68:ASP:OD1	1:D:71:ASP:HB2	2.17	0.45
1:E:192:ARG:HH22	1:E:594:MET:HG3	1.80	0.45
1:F:212:ARG:CD	1:F:220:MET:HG2	2.47	0.45
1:F:292:LEU:HD23	1:F:300:ILE:CD1	2.46	0.45
1:F:371:HIS:NE2	1:F:375:PHE:CE1	2.85	0.45
1:G:371:HIS:NE2	1:G:375:PHE:CE1	2.85	0.45
1:H:292:LEU:HD23	1:H:300:ILE:CD1	2.46	0.45
1:H:8:ARG:NH2	1:H:69:PHE:HD2	2.03	0.45
1:I:1:THR:HG23	1:I:4:ASP:H	1.81	0.45
1:I:540:LEU:HD23	1:I:541:ILE:CD1	2.47	0.45
1:J:212:ARG:CZ	1:J:220:MET:CE	2.95	0.45
1:J:411:LEU:CD2	1:J:429:LYS:CB	2.95	0.45
1:J:490:LEU:N	1:J:490:LEU:HD12	2.31	0.45
1:J:36:VAL:CG1	1:J:59:LEU:HD21	2.47	0.45
1:K:411:LEU:HD23	1:K:429:LYS:CA	2.42	0.45
1:L:209:ASP:O	1:L:213:LEU:HD13	2.16	0.45
1:M:379:THR:HG22	1:M:380:LYS:H	1.81	0.45
1:M:9:LEU:CD1	1:M:69:PHE:HZ	2.17	0.45
1:A:209:ASP:O	1:A:213:LEU:HD13	2.17	0.45
1:A:49:HIS:HB3	1:A:52:HIS:CD2	2.51	0.45
1:A:9:LEU:HD22	1:A:105:ILE:CG1	2.46	0.45
1:C:540:LEU:HD23	1:C:541:ILE:CD1	2.46	0.45
1:D:282:ILE:HG12	1:D:290:ILE:HG12	1.97	0.45
1:D:406:LEU:N	1:D:406:LEU:HD12	2.31	0.45
1:D:540:LEU:HD23	1:D:541:ILE:CD1	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:616:GLY:O	1:D:617:LEU:HD12	2.16	0.45
1:D:8:ARG:NH2	1:D:69:PHE:HD2	2.03	0.45
1:E:212:ARG:CZ	1:E:220:MET:CE	2.95	0.45
1:E:304:ILE:CA	1:E:311:SER:HA	2.42	0.45
1:E:371:HIS:NE2	1:E:375:PHE:CE1	2.85	0.45
1:G:540:LEU:CG	1:G:541:ILE:CD1	2.94	0.45
1:G:68:ASP:OD1	1:G:71:ASP:HB2	2.17	0.45
1:H:5:LYS:NZ	1:H:101:ASP:O	2.42	0.45
1:H:151:LEU:O	1:H:153:PRO:HD3	2.17	0.45
1:H:292:LEU:HB3	1:H:371:HIS:CE1	2.39	0.45
1:H:470:LYS:NZ	1:H:475:GLU:OE2	2.49	0.45
1:I:266:MET:SD	1:I:323:TRP:HB2	2.57	0.45
1:I:479:LEU:H	1:I:479:LEU:HD12	1.80	0.45
1:I:97:LEU:CD2	1:I:529:GLU:HA	2.47	0.45
1:J:428:VAL:HG13	1:J:428:VAL:O	2.17	0.45
1:K:556:MET:CE	1:K:614:ASN:HD21	2.30	0.45
1:K:611:LEU:H	1:K:611:LEU:HD12	1.82	0.45
1:K:55:GLU:OE1	1:K:87:MET:HE1	2.17	0.45
1:L:197:PHE:CE1	1:L:201:HIS:CE1	3.05	0.45
1:L:212:ARG:CD	1:L:220:MET:HG2	2.47	0.45
1:L:540:LEU:HD23	1:L:541:ILE:CD1	2.46	0.45
1:L:55:GLU:CB	1:L:87:MET:SD	3.05	0.45
1:L:85:GLU:HG2	1:L:86:GLY:N	2.32	0.45
1:M:212:ARG:CZ	1:M:220:MET:CE	2.95	0.45
1:M:556:MET:CE	1:M:614:ASN:HD21	2.30	0.45
1:A:149:ASN:OD1	1:D:467:LEU:HG	2.17	0.45
1:A:479:LEU:HD12	1:A:479:LEU:H	1.81	0.45
1:C:212:ARG:CD	1:C:220:MET:HG2	2.47	0.45
1:C:19:LEU:CD2	1:C:80:ARG:CG	2.95	0.45
1:C:85:GLU:HG2	1:C:86:GLY:N	2.32	0.45
1:D:36:VAL:CG1	1:D:59:LEU:HD21	2.47	0.45
1:D:611:LEU:HD12	1:D:611:LEU:H	1.82	0.45
1:E:277:ILE:HA	1:E:292:LEU:CD1	2.47	0.45
1:E:85:GLU:HG2	1:E:86:GLY:N	2.32	0.45
1:F:5:LYS:NZ	1:F:101:ASP:O	2.43	0.45
1:F:208:TYR:CE2	1:F:220:MET:CG	2.96	0.45
1:F:611:LEU:H	1:F:611:LEU:HD12	1.82	0.45
1:F:55:GLU:CB	1:F:87:MET:SD	3.05	0.45
1:G:470:LYS:NZ	1:G:475:GLU:OE2	2.49	0.45
1:H:209:ASP:O	1:H:213:LEU:HD13	2.16	0.45
1:H:292:LEU:CD2	1:H:300:ILE:CD1	2.95	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:407:ILE:CG1	1:H:431:HIS:HB3	2.47	0.45
1:H:405:THR:CG2	1:H:624:PHE:HD1	2.25	0.45
1:H:68:ASP:OD1	1:H:71:ASP:HB2	2.17	0.45
1:H:338:PHE:O	1:I:236:HIS:HE1	2.01	0.45
1:I:371:HIS:NE2	1:I:375:PHE:CE1	2.85	0.45
1:I:85:GLU:HG2	1:I:86:GLY:N	2.32	0.45
1:I:87:MET:HE2	1:I:87:MET:HB3	1.84	0.45
1:J:371:HIS:NE2	1:J:375:PHE:CE1	2.85	0.45
1:J:508:ILE:HB	1:J:533:CYS:O	2.17	0.45
1:K:490:LEU:HD12	1:K:490:LEU:N	2.32	0.45
1:K:49:HIS:HB3	1:K:52:HIS:CD2	2.51	0.45
1:L:371:HIS:NE2	1:L:375:PHE:CE1	2.85	0.45
1:L:414:LEU:HB3	1:L:418:ILE:HD11	1.99	0.45
1:M:616:GLY:O	1:M:617:LEU:HD12	2.16	0.45
1:A:38:ILE:HG12	1:A:55:GLU:HG2	1.99	0.44
1:A:192:ARG:HH22	1:A:594:MET:HG3	1.80	0.44
1:A:607:ALA:O	1:A:611:LEU:HD12	2.18	0.44
1:C:371:HIS:NE2	1:C:375:PHE:CE1	2.85	0.44
1:C:49:HIS:HB3	1:C:52:HIS:CD2	2.51	0.44
1:C:596:PHE:CD1	1:C:597:PRO:HA	2.52	0.44
1:E:19:LEU:CD2	1:E:80:ARG:CB	2.93	0.44
1:F:98:HIS:NE2	1:F:190:LYS:CE	2.81	0.44
1:F:428:VAL:HG13	1:F:428:VAL:O	2.17	0.44
1:F:607:ALA:O	1:F:611:LEU:HD12	2.18	0.44
1:F:616:GLY:O	1:F:617:LEU:HD12	2.16	0.44
1:G:212:ARG:CZ	1:G:220:MET:CE	2.95	0.44
1:G:617:LEU:HD12	1:G:617:LEU:N	2.30	0.44
1:G:88:PHE:HD1	1:G:91:ALA:HB3	1.81	0.44
1:I:411:LEU:CD2	1:I:429:LYS:HA	2.41	0.44
1:I:512:ARG:HB3	1:I:516:GLN:CB	2.47	0.44
1:J:30:ASP:OD2	1:J:33:LEU:HD13	2.17	0.44
1:J:33:LEU:HD23	1:J:79:ALA:HB2	1.98	0.44
1:K:96:VAL:CG1	1:K:105:ILE:HG23	2.47	0.44
1:K:411:LEU:CD2	1:K:429:LYS:CB	2.95	0.44
1:K:407:ILE:CG1	1:K:431:HIS:HB3	2.47	0.44
1:L:30:ASP:OD2	1:L:33:LEU:HD13	2.17	0.44
1:L:411:LEU:HD21	1:L:429:LYS:HB2	1.97	0.44
1:L:462:PRO:HD2	1:L:479:LEU:HB3	1.98	0.44
1:L:556:MET:CE	1:L:614:ASN:HD21	2.30	0.44
1:M:113:VAL:CG2	1:M:114:PHE:CD2	2.96	0.44
1:M:137:GLN:OE1	1:M:137:GLN:HA	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:160:PHE:CD2	1:M:539:MET:HE1	2.52	0.44
1:M:201:HIS:HA	1:M:204:MET:HE2	2.00	0.44
1:M:300:ILE:HG22	1:M:312:LYS:HZ1	1.82	0.44
1:M:428:VAL:O	1:M:428:VAL:HG13	2.17	0.44
1:A:556:MET:CE	1:A:614:ASN:HD21	2.30	0.44
1:A:596:PHE:CD1	1:A:597:PRO:HA	2.53	0.44
1:A:99:ARG:HB2	1:A:99:ARG:HH11	1.82	0.44
1:C:197:PHE:CE1	1:C:201:HIS:CE1	3.05	0.44
1:C:558:THR:HG21	1:C:592:LYS:HZ2	1.81	0.44
1:D:17:THR:HG21	1:D:241:VAL:HA	1.99	0.44
1:D:253:TYR:CE1	1:E:253:TYR:HE2	2.31	0.44
1:D:405:THR:HG22	1:D:624:PHE:HA	1.96	0.44
1:D:19:LEU:CD2	1:D:80:ARG:CG	2.95	0.44
1:E:30:ASP:OD2	1:E:33:LEU:HD13	2.17	0.44
1:E:9:LEU:HD22	1:E:105:ILE:CG1	2.46	0.44
1:F:530:TYR:CD2	1:F:531:CYS:HB3	2.53	0.44
1:G:197:PHE:CE1	1:G:201:HIS:CE1	3.05	0.44
1:G:30:ASP:OD2	1:G:33:LEU:HD13	2.17	0.44
1:G:607:ALA:O	1:G:611:LEU:HD12	2.18	0.44
1:I:240:LEU:H	1:I:240:LEU:CD2	2.29	0.44
1:I:411:LEU:CD2	1:I:429:LYS:CB	2.95	0.44
1:I:556:MET:CE	1:I:614:ASN:HD21	2.30	0.44
1:I:9:LEU:HD11	1:I:69:PHE:CZ	2.49	0.44
1:J:556:MET:CE	1:J:614:ASN:HD21	2.30	0.44
1:K:212:ARG:CZ	1:K:220:MET:CE	2.95	0.44
1:K:405:THR:CG2	1:K:624:PHE:HD1	2.26	0.44
1:K:68:ASP:OD1	1:K:71:ASP:HB2	2.17	0.44
1:K:19:LEU:CD2	1:K:80:ARG:CD	2.94	0.44
1:K:19:LEU:CD2	1:K:80:ARG:CG	2.95	0.44
1:L:282:ILE:HG12	1:L:290:ILE:HG12	1.97	0.44
1:L:292:LEU:HB3	1:L:371:HIS:CE1	2.39	0.44
1:M:235:PRO:HB2	1:M:237:LEU:CD2	2.21	0.44
1:M:490:LEU:N	1:M:490:LEU:HD12	2.32	0.44
1:M:512:ARG:HB3	1:M:516:GLN:CB	2.47	0.44
1:A:371:HIS:NE2	1:A:375:PHE:CE1	2.85	0.44
1:D:30:ASP:OD2	1:D:33:LEU:HD13	2.17	0.44
1:E:258:LEU:HD13	1:E:330:ASN:ND2	2.28	0.44
1:E:24:LEU:HD21	1:E:26:LEU:O	2.18	0.44
1:E:408:LYS:HB2	1:E:408:LYS:HZ2	1.81	0.44
1:E:411:LEU:HD23	1:E:429:LYS:CA	2.42	0.44
1:E:617:LEU:N	1:E:617:LEU:HD12	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:113:VAL:CG2	1:F:114:PHE:CD2	2.95	0.44
1:F:554:PHE:HD1	1:F:617:LEU:HD11	1.82	0.44
1:G:554:PHE:HD1	1:G:617:LEU:HD11	1.82	0.44
1:G:596:PHE:CD1	1:G:597:PRO:HA	2.53	0.44
1:G:36:VAL:CG1	1:G:59:LEU:HD21	2.47	0.44
1:H:490:LEU:HD12	1:H:490:LEU:N	2.31	0.44
1:H:540:LEU:CG	1:H:541:ILE:CD1	2.94	0.44
1:H:596:PHE:CD1	1:H:597:PRO:HA	2.53	0.44
1:H:616:GLY:O	1:H:617:LEU:HD12	2.16	0.44
1:I:406:LEU:N	1:I:406:LEU:HD12	2.31	0.44
1:J:530:TYR:CD2	1:J:531:CYS:HB3	2.53	0.44
1:J:160:PHE:CD2	1:J:539:MET:HE3	2.53	0.44
1:K:212:ARG:CD	1:K:220:MET:HG2	2.47	0.44
1:K:270:ARG:O	1:K:274:LEU:HG	2.18	0.44
1:K:30:ASP:OD2	1:K:33:LEU:HD13	2.17	0.44
1:K:408:LYS:HB2	1:K:408:LYS:HZ2	1.80	0.44
1:K:428:VAL:HG13	1:K:428:VAL:O	2.17	0.44
1:K:513:THR:HG23	1:K:516:GLN:N	2.25	0.44
1:K:554:PHE:HD1	1:K:617:LEU:HD11	1.82	0.44
1:L:96:VAL:CG1	1:L:105:ILE:HG23	2.47	0.44
1:L:19:LEU:CD2	1:L:80:ARG:CG	2.95	0.44
1:L:68:ASP:OD1	1:L:71:ASP:HB2	2.17	0.44
1:L:99:ARG:HH11	1:L:99:ARG:HB2	1.82	0.44
1:M:277:ILE:HA	1:M:292:LEU:CD1	2.47	0.44
1:M:411:LEU:CD2	1:M:429:LYS:CB	2.95	0.44
1:M:611:LEU:H	1:M:611:LEU:HD12	1.82	0.44
1:M:80:ARG:HB2	1:M:88:PHE:HD2	1.81	0.44
1:A:282:ILE:HD11	1:A:290:ILE:HD11	2.00	0.44
1:A:398:LYS:HE2	1:A:398:LYS:CA	2.47	0.44
1:A:508:ILE:HD11	1:A:531:CYS:HA	1.99	0.44
1:A:530:TYR:CD2	1:A:531:CYS:HB3	2.53	0.44
1:C:607:ALA:O	1:C:611:LEU:HD12	2.18	0.44
1:D:10:MET:CB	1:D:11:PRO:HD3	2.48	0.44
1:D:98:HIS:NE2	1:D:190:LYS:CE	2.81	0.44
1:D:596:PHE:CD1	1:D:597:PRO:HA	2.53	0.44
1:E:76:CYS:HG	1:E:88:PHE:HE1	1.62	0.44
1:E:19:LEU:CD2	1:E:80:ARG:CG	2.95	0.44
1:E:55:GLU:CB	1:E:87:MET:SD	3.05	0.44
1:E:96:VAL:CG1	1:E:105:ILE:HG23	2.47	0.44
1:F:137:GLN:HA	1:F:137:GLN:OE1	2.16	0.44
1:F:24:LEU:HD21	1:F:26:LEU:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:281:TYR:OH	1:F:289:LYS:NZ	2.50	0.44
1:F:33:LEU:HD11	1:F:75:LEU:HD11	1.92	0.44
1:F:442:ILE:HG22	1:F:497:ILE:HB	1.96	0.44
1:F:596:PHE:CD1	1:F:597:PRO:HA	2.53	0.44
1:F:9:LEU:CD1	1:F:69:PHE:HZ	2.17	0.44
1:F:99:ARG:HH11	1:F:99:ARG:HB2	1.82	0.44
1:G:231:GLU:O	1:G:249:ARG:NH1	2.49	0.44
1:G:276:ALA:HB1	1:G:282:ILE:HG22	1.99	0.44
1:H:428:VAL:HG13	1:H:428:VAL:O	2.17	0.44
1:I:197:PHE:CE1	1:I:201:HIS:CE1	3.05	0.44
1:I:212:ARG:CZ	1:I:220:MET:CE	2.95	0.44
1:I:103:LYS:HB2	1:I:526:ASP:O	2.17	0.44
1:J:596:PHE:CD1	1:J:597:PRO:HA	2.53	0.44
1:J:77:GLU:HA	1:J:80:ARG:HH21	1.83	0.44
1:K:282:ILE:CG1	1:K:290:ILE:CG1	2.94	0.44
1:K:530:TYR:CD2	1:K:531:CYS:HB3	2.53	0.44
1:L:554:PHE:HD1	1:L:617:LEU:CD1	2.31	0.44
1:L:596:PHE:CD1	1:L:597:PRO:HA	2.53	0.44
1:L:554:PHE:HD1	1:L:617:LEU:HD11	1.82	0.44
1:M:197:PHE:CE1	1:M:201:HIS:CE1	3.05	0.44
1:A:212:ARG:CZ	1:A:220:MET:CE	2.95	0.44
1:A:428:VAL:O	1:A:428:VAL:HG13	2.17	0.44
1:A:8:ARG:HH21	1:A:69:PHE:HD2	1.65	0.44
1:C:106:THR:HG22	1:C:107:VAL:O	2.18	0.44
1:C:108:PRO:HA	1:C:109:PRO:HD3	1.82	0.44
1:C:490:LEU:N	1:C:490:LEU:HD12	2.32	0.44
1:C:554:PHE:HD1	1:C:617:LEU:CD1	2.31	0.44
1:D:96:VAL:CG1	1:D:105:ILE:HG23	2.47	0.44
1:D:19:LEU:CD2	1:D:80:ARG:CB	2.94	0.44
1:D:197:PHE:CE1	1:D:201:HIS:CE1	3.05	0.44
1:D:371:HIS:NE2	1:D:375:PHE:CE1	2.85	0.44
1:D:379:THR:CG2	1:D:380:LYS:N	2.81	0.44
1:D:554:PHE:HD1	1:D:617:LEU:HD11	1.81	0.44
1:D:558:THR:HG21	1:D:592:LYS:HZ2	1.80	0.44
1:D:607:ALA:O	1:D:611:LEU:HD12	2.18	0.44
1:D:85:GLU:HG2	1:D:86:GLY:N	2.32	0.44
1:E:249:ARG:HG3	1:E:331:ILE:HG21	2.00	0.44
1:E:530:TYR:CD2	1:E:531:CYS:HB3	2.53	0.44
1:E:554:PHE:HD1	1:E:617:LEU:HD11	1.82	0.44
1:E:556:MET:CE	1:E:614:ASN:HD21	2.30	0.44
1:E:607:ALA:O	1:E:611:LEU:HD12	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:550:GLU:HG2	1:E:621:LYS:HD3	2.00	0.44
1:F:192:ARG:HH21	1:F:594:MET:HE3	1.81	0.44
1:F:209:ASP:O	1:F:213:LEU:HD13	2.17	0.44
1:F:277:ILE:HA	1:F:292:LEU:CD1	2.48	0.44
1:F:379:THR:HG22	1:F:380:LYS:H	1.81	0.44
1:F:19:LEU:CD2	1:F:80:ARG:CD	2.95	0.44
1:G:379:THR:CG2	1:G:380:LYS:N	2.81	0.44
1:G:411:LEU:CD2	1:G:429:LYS:HA	2.41	0.44
1:G:407:ILE:CG1	1:G:431:HIS:HB3	2.47	0.44
1:G:530:TYR:CD2	1:G:531:CYS:HB3	2.53	0.44
1:H:550:GLU:HG2	1:H:621:LYS:HD3	2.00	0.44
1:H:85:GLU:HG2	1:H:86:GLY:N	2.32	0.44
1:I:209:ASP:O	1:I:213:LEU:HD13	2.16	0.44
1:I:284:ASP:OD1	1:I:312:LYS:HB3	2.18	0.44
1:I:442:ILE:HG22	1:I:497:ILE:HB	1.96	0.44
1:J:33:LEU:HD11	1:J:75:LEU:HD11	1.92	0.44
1:J:530:TYR:CD2	1:J:531:CYS:SG	3.06	0.44
1:J:554:PHE:HD1	1:J:617:LEU:HD11	1.82	0.44
1:K:108:PRO:HA	1:K:109:PRO:HD3	1.82	0.44
1:K:282:ILE:HD11	1:K:290:ILE:HD11	2.00	0.44
1:K:379:THR:HG22	1:K:380:LYS:H	1.81	0.44
1:K:550:GLU:HG2	1:K:621:LYS:HD3	2.00	0.44
1:K:76:CYS:HG	1:K:88:PHE:HE1	1.63	0.44
1:L:10:MET:CB	1:L:11:PRO:HD3	2.48	0.44
1:L:404:THR:CG2	1:L:406:LEU:HD11	2.45	0.44
1:L:407:ILE:CG1	1:L:431:HIS:HB3	2.47	0.44
1:L:250:PRO:HG3	1:M:332:THR:OG1	2.18	0.44
1:M:511:VAL:HG23	1:M:531:CYS:CB	2.47	0.44
1:M:88:PHE:HD1	1:M:91:ALA:HB3	1.82	0.44
1:A:96:VAL:CG1	1:A:105:ILE:HG23	2.47	0.44
1:A:197:PHE:CE1	1:A:201:HIS:CE1	3.05	0.44
1:A:85:GLU:HG2	1:A:86:GLY:N	2.32	0.44
1:C:149:ASN:OD1	1:G:467:LEU:HD11	2.17	0.44
1:C:293:ASP:HB3	1:C:296:HIS:HB2	2.00	0.44
1:D:270:ARG:O	1:D:274:LEU:HG	2.17	0.44
1:E:212:ARG:CD	1:E:220:MET:HG2	2.47	0.44
1:E:303:ASP:OD2	1:E:312:LYS:NZ	2.51	0.44
1:E:414:LEU:CB	1:E:426:VAL:HG23	2.28	0.44
1:F:19:LEU:CD2	1:F:80:ARG:CG	2.95	0.44
1:G:200:MET:HE3	1:G:200:MET:HA	2.00	0.44
1:G:33:LEU:HD23	1:G:79:ALA:HB2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:411:LEU:HD21	1:G:429:LYS:HB2	1.97	0.44
1:G:556:MET:CE	1:G:614:ASN:HD21	2.30	0.44
1:H:513:THR:N	1:H:516:GLN:HG3	2.16	0.44
1:H:556:MET:CE	1:H:614:ASN:HD21	2.30	0.44
1:I:212:ARG:CD	1:I:220:MET:HG2	2.47	0.44
1:I:513:THR:N	1:I:516:GLN:HG3	2.16	0.44
1:J:268:ARG:O	1:J:272:ARG:HG3	2.17	0.44
1:K:300:ILE:HA	1:K:303:ASP:OD2	2.18	0.44
1:K:530:TYR:CD2	1:K:531:CYS:SG	3.06	0.44
1:L:117:ARG:HB3	1:L:117:ARG:HE	1.67	0.44
1:L:284:ASP:OD1	1:L:312:LYS:HB3	2.18	0.44
1:L:530:TYR:CD2	1:L:531:CYS:HB3	2.53	0.44
1:M:530:TYR:CD2	1:M:531:CYS:HB3	2.53	0.44
1:M:554:PHE:HD1	1:M:617:LEU:CD1	2.31	0.44
1:M:33:LEU:HD21	1:M:79:ALA:HB2	2.00	0.44
1:M:80:ARG:CB	1:M:88:PHE:HD2	2.30	0.44
1:A:30:ASP:OD2	1:A:33:LEU:HD13	2.17	0.44
1:A:411:LEU:CD2	1:A:429:LYS:CB	2.95	0.44
1:C:411:LEU:CD2	1:C:429:LYS:CB	2.95	0.44
1:C:530:TYR:CD2	1:C:531:CYS:HB3	2.53	0.44
1:D:106:THR:HG22	1:D:107:VAL:O	2.18	0.44
1:D:540:LEU:CG	1:D:541:ILE:CD1	2.94	0.44
1:E:106:THR:HG22	1:E:107:VAL:O	2.18	0.44
1:E:306:GLU:HG2	1:E:307:SER:N	2.32	0.44
1:E:327:MET:HG3	1:E:328:MET:N	2.33	0.44
1:E:98:HIS:NE2	1:E:190:LYS:CE	2.80	0.44
1:F:284:ASP:OD1	1:F:312:LYS:HB3	2.18	0.44
1:F:266:MET:SD	1:F:323:TRP:HB2	2.57	0.44
1:F:556:MET:CE	1:F:614:ASN:HD21	2.30	0.44
1:F:617:LEU:N	1:F:617:LEU:HD12	2.30	0.44
1:G:20:THR:O	1:G:21:ARG:HB3	2.18	0.44
1:H:108:PRO:HA	1:H:109:PRO:HD3	1.81	0.44
1:H:379:THR:CG2	1:H:380:LYS:N	2.81	0.44
1:H:406:LEU:HD12	1:H:406:LEU:N	2.31	0.44
1:H:554:PHE:HD1	1:H:617:LEU:CD1	2.31	0.44
1:I:200:MET:O	1:I:200:MET:HE2	2.17	0.44
1:I:275:ASP:O	1:I:278:ASN:HB2	2.17	0.44
1:I:407:ILE:CG1	1:I:431:HIS:HB3	2.47	0.44
1:I:68:ASP:OD1	1:I:71:ASP:HB2	2.17	0.44
1:I:99:ARG:HH11	1:I:99:ARG:HB2	1.82	0.44
1:J:292:LEU:CD2	1:J:300:ILE:CD1	2.94	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:20:THR:O	1:K:21:ARG:HB3	2.18	0.44
1:K:371:HIS:NE2	1:K:375:PHE:CE1	2.85	0.44
1:K:379:THR:CG2	1:K:380:LYS:N	2.81	0.44
1:L:106:THR:HG22	1:L:107:VAL:O	2.18	0.44
1:L:36:VAL:CG1	1:L:59:LEU:HD21	2.47	0.44
1:M:19:LEU:HD23	1:M:80:ARG:CB	2.43	0.44
1:M:212:ARG:CD	1:M:220:MET:HG2	2.47	0.44
1:M:371:HIS:NE2	1:M:375:PHE:CE1	2.85	0.44
1:M:68:ASP:OD1	1:M:71:ASP:HB2	2.17	0.44
1:A:284:ASP:OD1	1:A:312:LYS:HB3	2.18	0.44
1:A:160:PHE:CD2	1:A:539:MET:HE3	2.53	0.44
1:A:125:ASN:ND2	1:C:242:SER:O	2.51	0.44
1:D:219:ARG:HH22	1:D:465:ASP:CG	2.21	0.44
1:D:212:ARG:CD	1:D:220:MET:HG2	2.47	0.44
1:D:411:LEU:CD2	1:D:429:LYS:CB	2.95	0.44
1:D:481:ILE:HG13	1:D:481:ILE:O	2.18	0.44
1:D:554:PHE:HD1	1:D:617:LEU:CD1	2.31	0.44
1:F:85:GLU:HG2	1:F:86:GLY:N	2.32	0.44
1:G:261:VAL:HG12	1:G:262:ASP:N	2.33	0.44
1:H:113:VAL:CG2	1:H:114:PHE:CD2	2.96	0.44
1:H:540:LEU:HD23	1:H:541:ILE:CD1	2.46	0.44
1:J:108:PRO:HB3	1:J:514:PHE:CE2	2.53	0.44
1:J:540:LEU:HD23	1:J:541:ILE:CD1	2.46	0.44
1:J:607:ALA:O	1:J:611:LEU:HD12	2.17	0.44
1:J:80:ARG:CB	1:J:88:PHE:HD2	2.30	0.44
1:K:106:THR:CG2	1:K:107:VAL:N	2.81	0.44
1:K:596:PHE:CD1	1:K:597:PRO:HA	2.53	0.44
1:L:106:THR:CG2	1:L:107:VAL:N	2.81	0.44
1:L:98:HIS:NE2	1:L:190:LYS:CE	2.81	0.44
1:L:24:LEU:HD21	1:L:26:LEU:O	2.18	0.44
1:M:279:MET:HB3	1:M:281:TYR:CE2	2.53	0.44
1:M:282:ILE:HD11	1:M:290:ILE:HD11	2.00	0.44
1:M:550:GLU:HG2	1:M:621:LYS:HD3	2.00	0.44
1:A:161:ARG:HB2	1:A:161:ARG:NH1	2.33	0.44
1:A:327:MET:HG3	1:A:328:MET:N	2.33	0.44
1:A:407:ILE:CG1	1:A:431:HIS:HB3	2.47	0.44
1:C:212:ARG:CZ	1:C:220:MET:CE	2.95	0.44
1:C:258:LEU:HD13	1:C:330:ASN:ND2	2.28	0.44
1:C:327:MET:HG3	1:C:328:MET:N	2.33	0.44
1:C:249:ARG:HG3	1:C:331:ILE:HG21	2.00	0.44
1:C:556:MET:CE	1:C:614:ASN:HD21	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:379:THR:HG22	1:E:380:LYS:H	1.81	0.44
1:E:596:PHE:CD1	1:E:597:PRO:HA	2.53	0.44
1:F:30:ASP:OD2	1:F:33:LEU:HD13	2.17	0.44
1:F:36:VAL:CG1	1:F:59:LEU:HD21	2.47	0.44
1:F:68:ASP:OD1	1:F:71:ASP:HB2	2.17	0.44
1:G:411:LEU:HD23	1:G:429:LYS:CA	2.42	0.44
1:G:481:ILE:O	1:G:481:ILE:HG13	2.18	0.44
1:G:550:GLU:HG2	1:G:621:LYS:HD3	2.00	0.44
1:H:219:ARG:HH22	1:H:465:ASP:CG	2.21	0.44
1:H:249:ARG:HG3	1:H:331:ILE:HG21	2.00	0.44
1:H:462:PRO:HD2	1:H:479:LEU:HB3	1.98	0.44
1:I:596:PHE:CD1	1:I:597:PRO:HA	2.53	0.44
1:J:398:LYS:HE2	1:J:398:LYS:CA	2.47	0.44
1:K:151:LEU:O	1:K:153:PRO:HD3	2.18	0.44
1:K:512:ARG:HB3	1:K:516:GLN:CB	2.47	0.44
1:L:20:THR:O	1:L:21:ARG:HB3	2.18	0.44
1:M:209:ASP:O	1:M:213:LEU:HD13	2.17	0.44
1:A:19:LEU:CD2	1:A:80:ARG:CB	2.93	0.43
1:A:20:THR:O	1:A:21:ARG:HB3	2.18	0.43
1:A:414:LEU:HB3	1:A:418:ILE:HD11	1.99	0.43
1:C:530:TYR:CD2	1:C:531:CYS:SG	3.06	0.43
1:C:19:LEU:CD2	1:C:80:ARG:CD	2.94	0.43
1:D:284:ASP:OD1	1:D:312:LYS:HB3	2.18	0.43
1:D:479:LEU:H	1:D:479:LEU:HD12	1.80	0.43
1:D:530:TYR:CD2	1:D:531:CYS:HB3	2.53	0.43
1:D:556:MET:CE	1:D:614:ASN:HD21	2.30	0.43
1:E:160:PHE:CD2	1:E:539:MET:HE1	2.53	0.43
1:E:284:ASP:OD1	1:E:312:LYS:HB3	2.18	0.43
1:E:554:PHE:HD1	1:E:617:LEU:CD1	2.31	0.43
1:F:332:THR:HG23	1:F:333:ASP:N	2.33	0.43
1:F:405:THR:CG2	1:F:624:PHE:HD1	2.26	0.43
1:G:282:ILE:HD11	1:G:290:ILE:HD11	2.00	0.43
1:H:337:ARG:HA	1:I:151:LEU:HB2	1.98	0.43
1:H:512:ARG:HB3	1:H:516:GLN:CB	2.47	0.43
1:I:428:VAL:HG13	1:I:428:VAL:O	2.17	0.43
1:J:161:ARG:NH1	1:J:161:ARG:HB2	2.33	0.43
1:J:554:PHE:HD1	1:J:617:LEU:CD1	2.31	0.43
1:K:9:LEU:HD22	1:K:105:ILE:CG1	2.47	0.43
1:K:554:PHE:HD1	1:K:617:LEU:CD1	2.31	0.43
1:L:282:ILE:HD11	1:L:290:ILE:HD11	2.00	0.43
1:L:292:LEU:CD2	1:L:300:ILE:CD1	2.94	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:540:LEU:CG	1:L:541:ILE:CD1	2.94	0.43
1:L:550:GLU:HG2	1:L:621:LYS:HD3	2.00	0.43
1:M:20:THR:O	1:M:21:ARG:HB3	2.18	0.43
1:M:414:LEU:CB	1:M:426:VAL:HG23	2.28	0.43
1:A:249:ARG:HG3	1:A:331:ILE:HG21	2.00	0.43
1:A:57:THR:HG23	1:A:58:GLU:N	2.34	0.43
1:A:60:TYR:CD1	1:A:94:VAL:HB	2.53	0.43
1:C:556:MET:HE3	1:C:614:ASN:HD21	1.83	0.43
1:D:161:ARG:NH1	1:D:161:ARG:HB2	2.33	0.43
1:D:393:VAL:HG12	1:D:394:SER:N	2.33	0.43
1:D:462:PRO:HD2	1:D:479:LEU:HB3	1.98	0.43
1:E:393:VAL:HG12	1:E:394:SER:N	2.33	0.43
1:E:57:THR:HG23	1:E:58:GLU:N	2.34	0.43
1:F:282:ILE:HD11	1:F:290:ILE:HD11	2.00	0.43
1:G:265:ASP:OD1	1:G:268:ARG:NH2	2.51	0.43
1:G:393:VAL:HG12	1:G:394:SER:N	2.33	0.43
1:G:33:LEU:HD21	1:G:79:ALA:HB2	2.00	0.43
1:H:106:THR:HG22	1:H:107:VAL:O	2.18	0.43
1:H:553:LEU:O	1:H:617:LEU:HA	2.19	0.43
1:H:548:GLY:HA2	1:H:622:ILE:O	2.19	0.43
1:I:554:PHE:HD1	1:I:617:LEU:CD1	2.31	0.43
1:J:327:MET:HG3	1:J:328:MET:N	2.33	0.43
1:J:550:GLU:HG2	1:J:621:LYS:HD3	2.00	0.43
1:K:282:ILE:HG13	1:K:290:ILE:HG12	2.01	0.43
1:K:254:SER:O	1:K:331:ILE:HD11	2.18	0.43
1:L:279:MET:HB3	1:L:281:TYR:CE2	2.53	0.43
1:L:428:VAL:O	1:L:428:VAL:HG13	2.17	0.43
1:L:411:LEU:CD2	1:L:429:LYS:CB	2.95	0.43
1:A:172:HIS:CE1	1:A:532:SER:CB	2.98	0.43
1:A:17:THR:HG1	1:A:241:VAL:HG12	1.82	0.43
1:A:24:LEU:HD21	1:A:26:LEU:O	2.18	0.43
1:C:192:ARG:HH21	1:C:594:MET:HE3	1.83	0.43
1:C:192:ARG:HH22	1:C:594:MET:HG3	1.80	0.43
1:D:106:THR:CG2	1:D:107:VAL:N	2.81	0.43
1:D:20:THR:O	1:D:21:ARG:HB3	2.18	0.43
1:D:222:PRO:HB3	1:D:366:ASN:HD21	1.84	0.43
1:D:55:GLU:OE1	1:D:87:MET:HE1	2.18	0.43
1:D:620:ILE:H	1:D:620:ILE:CD1	2.25	0.43
1:E:282:ILE:HG12	1:E:290:ILE:HG12	1.97	0.43
1:E:405:THR:CG2	1:E:624:PHE:HD1	2.26	0.43
1:F:550:GLU:HG2	1:F:621:LYS:HD3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:108:PRO:HA	1:G:109:PRO:HD3	1.81	0.43
1:G:212:ARG:CD	1:G:220:MET:HG2	2.47	0.43
1:G:284:ASP:OD1	1:G:312:LYS:HB3	2.18	0.43
1:G:327:MET:HG3	1:G:328:MET:N	2.33	0.43
1:G:428:VAL:HG13	1:G:428:VAL:O	2.17	0.43
1:H:414:LEU:HB3	1:H:418:ILE:HD11	1.99	0.43
1:H:529:GLU:HB3	1:H:574:CYS:SG	2.58	0.43
1:I:240:LEU:N	1:I:240:LEU:CD2	2.82	0.43
1:I:292:LEU:CD2	1:I:300:ILE:CD1	2.95	0.43
1:J:222:PRO:HB3	1:J:366:ASN:HD21	1.84	0.43
1:J:282:ILE:HG13	1:J:290:ILE:HG12	2.00	0.43
1:J:36:VAL:HG13	1:J:83:VAL:HG11	2.00	0.43
1:K:106:THR:HG22	1:K:107:VAL:O	2.18	0.43
1:K:292:LEU:HG	1:K:300:ILE:HD11	1.99	0.43
1:K:411:LEU:CD2	1:K:429:LYS:HA	2.41	0.43
1:K:85:GLU:HG2	1:K:86:GLY:N	2.32	0.43
1:M:266:MET:SD	1:M:323:TRP:HB2	2.57	0.43
1:M:59:LEU:HB2	1:M:91:ALA:HB2	1.92	0.43
1:C:96:VAL:CG1	1:C:105:ILE:HG23	2.47	0.43
1:C:161:ARG:NH1	1:C:161:ARG:HB2	2.33	0.43
1:C:160:PHE:CD2	1:C:539:MET:HE3	2.53	0.43
1:D:198:PHE:CE1	1:D:368:PHE:CB	3.02	0.43
1:D:24:LEU:HD21	1:D:26:LEU:O	2.18	0.43
1:D:332:THR:HG23	1:D:333:ASP:N	2.33	0.43
1:F:106:THR:HG22	1:F:107:VAL:O	2.18	0.43
1:F:554:PHE:HD1	1:F:617:LEU:CD1	2.31	0.43
1:H:106:THR:CG2	1:H:107:VAL:N	2.81	0.43
1:H:274:LEU:HD23	1:H:277:ILE:HD12	2.00	0.43
1:H:332:THR:HG23	1:H:333:ASP:N	2.33	0.43
1:I:332:THR:HG23	1:I:333:ASP:N	2.34	0.43
1:I:393:VAL:HG12	1:I:394:SER:N	2.34	0.43
1:I:57:THR:HG23	1:I:58:GLU:N	2.33	0.43
1:J:10:MET:CB	1:J:11:PRO:HD3	2.48	0.43
1:J:393:VAL:HG12	1:J:394:SER:N	2.33	0.43
1:J:69:PHE:HE1	1:J:102:CYS:SG	2.41	0.43
1:J:88:PHE:HD1	1:J:91:ALA:HB3	1.81	0.43
1:K:270:ARG:HB3	1:K:270:ARG:HE	1.71	0.43
1:L:393:VAL:HG12	1:L:394:SER:N	2.33	0.43
1:M:212:ARG:CZ	1:M:220:MET:HE3	2.47	0.43
1:M:284:ASP:OD1	1:M:312:LYS:HB3	2.18	0.43
1:M:607:ALA:O	1:M:611:LEU:HD12	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:84:ASN:ND2	1:M:87:MET:HE2	2.34	0.43
1:A:192:ARG:HH21	1:A:594:MET:HE3	1.81	0.43
1:A:467:LEU:HD12	1:D:150:ILE:O	2.18	0.43
1:A:554:PHE:HD1	1:A:617:LEU:CD1	2.31	0.43
1:A:553:LEU:O	1:A:617:LEU:HA	2.19	0.43
1:C:481:ILE:O	1:C:481:ILE:HG13	2.18	0.43
1:E:292:LEU:HB3	1:E:371:HIS:CE1	2.39	0.43
1:E:303:ASP:O	1:E:305:ILE:N	2.52	0.43
1:E:36:VAL:CG1	1:E:59:LEU:HD21	2.47	0.43
1:G:292:LEU:CD2	1:G:300:ILE:CD1	2.94	0.43
1:G:332:THR:HG23	1:G:333:ASP:N	2.34	0.43
1:H:212:ARG:CD	1:H:220:MET:HG2	2.47	0.43
1:I:292:LEU:HB3	1:I:371:HIS:CE1	2.39	0.43
1:I:331:ILE:CG2	1:I:332:THR:N	2.82	0.43
1:I:379:THR:CG2	1:I:380:LYS:N	2.81	0.43
1:I:550:GLU:HG2	1:I:621:LYS:HD3	2.00	0.43
1:K:553:LEU:O	1:K:617:LEU:HA	2.19	0.43
1:L:479:LEU:H	1:L:479:LEU:HD12	1.80	0.43
1:L:548:GLY:HA2	1:L:622:ILE:O	2.19	0.43
1:L:553:LEU:O	1:L:617:LEU:HA	2.19	0.43
1:L:607:ALA:O	1:L:611:LEU:HD12	2.18	0.43
1:L:19:LEU:CD2	1:L:80:ARG:CD	2.94	0.43
1:M:161:ARG:NH1	1:M:161:ARG:HB2	2.33	0.43
1:M:198:PHE:CE1	1:M:368:PHE:CB	3.02	0.43
1:M:258:LEU:HD13	1:M:330:ASN:ND2	2.28	0.43
1:A:106:THR:HG22	1:A:107:VAL:O	2.18	0.43
1:A:240:LEU:CD2	1:A:240:LEU:N	2.82	0.43
1:A:526:ASP:CG	1:A:573:VAL:HG23	2.38	0.43
1:C:222:PRO:HB3	1:C:366:ASN:HD21	1.84	0.43
1:C:407:ILE:CG1	1:C:431:HIS:HB3	2.47	0.43
1:C:550:GLU:HG2	1:C:621:LYS:HD3	2.00	0.43
1:D:530:TYR:CD2	1:D:531:CYS:SG	3.06	0.43
1:E:20:THR:O	1:E:21:ARG:HB3	2.18	0.43
1:E:282:ILE:HD11	1:E:290:ILE:HD11	2.00	0.43
1:E:282:ILE:HG13	1:E:290:ILE:HG12	2.01	0.43
1:E:331:ILE:CG2	1:E:332:THR:N	2.82	0.43
1:E:428:VAL:O	1:E:428:VAL:HG13	2.17	0.43
1:F:198:PHE:CE1	1:F:368:PHE:CB	3.02	0.43
1:F:548:GLY:HA2	1:F:622:ILE:O	2.19	0.43
1:G:530:TYR:CD2	1:G:531:CYS:SG	3.06	0.43
1:G:553:LEU:O	1:G:617:LEU:HA	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:554:PHE:HD1	1:G:617:LEU:CD1	2.31	0.43
1:H:116:ASP:HA	1:H:124:ILE:HD13	2.00	0.43
1:H:327:MET:HG3	1:H:328:MET:N	2.33	0.43
1:H:331:ILE:CG2	1:H:332:THR:N	2.82	0.43
1:I:282:ILE:HD11	1:I:290:ILE:HD11	2.00	0.43
1:I:481:ILE:HG13	1:I:481:ILE:O	2.18	0.43
1:I:607:ALA:O	1:I:611:LEU:HD12	2.18	0.43
1:I:12:LEU:HD22	1:I:80:ARG:HH22	1.83	0.43
1:J:395:ILE:CD1	1:J:620:ILE:CG2	2.95	0.43
1:K:117:ARG:HE	1:K:117:ARG:HB3	1.67	0.43
1:K:198:PHE:CE1	1:K:368:PHE:CB	3.02	0.43
1:M:201:HIS:HA	1:M:204:MET:HE3	2.00	0.43
1:M:327:MET:HG3	1:M:328:MET:N	2.33	0.43
1:M:192:ARG:HH22	1:M:594:MET:HG3	1.80	0.43
1:A:332:THR:HG23	1:A:333:ASP:N	2.34	0.43
1:A:526:ASP:CG	1:A:573:VAL:CG2	2.86	0.43
1:C:411:LEU:CD2	1:C:429:LYS:HA	2.41	0.43
1:C:87:MET:HB3	1:C:87:MET:HE2	1.85	0.43
1:D:292:LEU:CD2	1:D:300:ILE:CD1	2.94	0.43
1:E:332:THR:HG23	1:E:333:ASP:N	2.33	0.43
1:E:160:PHE:CD2	1:E:539:MET:HE3	2.54	0.43
1:E:548:GLY:HA2	1:E:622:ILE:O	2.19	0.43
1:G:80:ARG:CB	1:G:88:PHE:HD2	2.30	0.43
1:H:98:HIS:NE2	1:H:190:LYS:CE	2.81	0.43
1:H:356:ILE:HG13	1:H:357:PHE:N	2.34	0.43
1:I:261:VAL:CG1	1:I:262:ASP:N	2.82	0.43
1:I:327:MET:HG3	1:I:328:MET:N	2.33	0.43
1:I:356:ILE:HG13	1:I:357:PHE:N	2.34	0.43
1:J:332:THR:HG23	1:J:333:ASP:N	2.34	0.43
1:J:331:ILE:CG2	1:J:332:THR:N	2.82	0.43
1:L:161:ARG:HB2	1:L:161:ARG:NH1	2.33	0.43
1:L:327:MET:HG3	1:L:328:MET:N	2.33	0.43
1:M:117:ARG:HB3	1:M:117:ARG:HE	1.67	0.43
1:M:192:ARG:HH21	1:M:594:MET:HE3	1.81	0.43
1:M:332:THR:HG23	1:M:333:ASP:N	2.34	0.43
1:A:540:LEU:CG	1:A:541:ILE:CD1	2.94	0.43
1:A:433:LEU:HD21	1:A:543:ARG:HA	2.01	0.43
1:C:268:ARG:O	1:C:272:ARG:HG3	2.19	0.43
1:C:198:PHE:CE1	1:C:368:PHE:CB	3.02	0.43
1:C:433:LEU:HD21	1:C:543:ARG:HA	2.01	0.43
1:D:428:VAL:O	1:D:428:VAL:HG13	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:385:PHE:CD2	1:E:388:VAL:HG21	2.54	0.43
1:E:433:LEU:HD21	1:E:543:ARG:HA	2.01	0.43
1:F:161:ARG:HB2	1:F:161:ARG:NH1	2.33	0.43
1:F:292:LEU:CD2	1:F:300:ILE:CD1	2.94	0.43
1:G:10:MET:CB	1:G:11:PRO:HD3	2.48	0.43
1:G:282:ILE:HG12	1:G:290:ILE:HG13	2.01	0.43
1:G:620:ILE:N	1:G:620:ILE:CD1	2.82	0.43
1:H:96:VAL:CG1	1:H:105:ILE:HG23	2.47	0.43
1:H:393:VAL:HG12	1:H:394:SER:N	2.33	0.43
1:I:620:ILE:H	1:I:620:ILE:CD1	2.25	0.43
1:J:282:ILE:HD11	1:J:290:ILE:HD11	2.00	0.43
1:J:36:VAL:CG1	1:J:83:VAL:HG11	2.49	0.43
1:J:558:THR:CG2	1:J:559:ASP:N	2.82	0.43
1:J:405:THR:HG22	1:J:624:PHE:HA	1.96	0.43
1:K:161:ARG:NH1	1:K:161:ARG:HB2	2.33	0.43
1:K:32:ARG:HB2	1:K:33:LEU:HD12	2.01	0.43
1:K:438:PHE:HE1	1:K:440:TYR:HH	1.64	0.43
1:L:620:ILE:CD1	1:L:620:ILE:H	2.25	0.43
1:L:405:THR:HG22	1:L:624:PHE:HA	1.96	0.43
1:M:108:PRO:HA	1:M:109:PRO:HD3	1.81	0.43
1:M:513:THR:HG23	1:M:516:GLN:N	2.25	0.43
1:M:175:ILE:CG2	1:M:528:THR:HG21	2.46	0.43
1:M:553:LEU:O	1:M:617:LEU:HA	2.19	0.43
1:A:160:PHE:CD2	1:A:539:MET:HE1	2.54	0.43
1:A:164:ILE:CG2	1:A:165:GLY:N	2.82	0.43
1:A:240:LEU:HD23	1:A:241:VAL:HG13	2.00	0.43
1:A:282:ILE:HG13	1:A:290:ILE:HG12	2.01	0.43
1:A:337:ARG:HA	1:C:151:LEU:CD2	2.46	0.43
1:A:32:ARG:HB2	1:A:33:LEU:HD12	2.01	0.43
1:C:98:HIS:NE2	1:C:190:LYS:CE	2.82	0.43
1:D:282:ILE:HD11	1:D:290:ILE:HD11	2.00	0.43
1:D:249:ARG:HG3	1:D:331:ILE:HG21	2.00	0.43
1:D:548:GLY:HA2	1:D:622:ILE:O	2.19	0.43
1:E:558:THR:CG2	1:E:559:ASP:N	2.82	0.43
1:E:68:ASP:OD1	1:E:71:ASP:HB2	2.17	0.43
1:F:20:THR:O	1:F:21:ARG:HB3	2.18	0.43
1:F:379:THR:CG2	1:F:380:LYS:N	2.81	0.43
1:G:161:ARG:HB2	1:G:161:ARG:NH1	2.33	0.43
1:G:324:GLY:O	1:G:327:MET:HG2	2.19	0.43
1:G:222:PRO:HB3	1:G:366:ASN:HD21	1.84	0.43
1:G:77:GLU:HA	1:G:80:ARG:HH21	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:198:PHE:CE1	1:H:368:PHE:CB	3.02	0.43
1:H:272:ARG:NH1	1:H:316:TYR:O	2.51	0.43
1:I:240:LEU:HD23	1:I:241:VAL:HG13	2.00	0.43
1:I:300:ILE:HG22	1:I:312:LYS:HZ1	1.83	0.43
1:I:39:LEU:HD23	1:I:84:ASN:ND2	2.34	0.43
1:J:433:LEU:HD21	1:J:543:ARG:HA	2.01	0.43
1:L:324:GLY:O	1:L:327:MET:HG2	2.19	0.43
1:L:332:THR:HG23	1:L:333:ASP:N	2.34	0.43
1:L:411:LEU:HD23	1:L:429:LYS:CA	2.42	0.43
1:L:57:THR:HG23	1:L:58:GLU:N	2.34	0.43
1:L:76:CYS:HG	1:L:88:PHE:HE1	1.62	0.43
1:M:379:THR:CG2	1:M:380:LYS:N	2.81	0.43
1:M:596:PHE:CD1	1:M:597:PRO:HA	2.53	0.43
1:A:10:MET:CB	1:A:11:PRO:HD3	2.48	0.43
1:A:241:VAL:HG23	1:A:242:SER:N	2.34	0.43
1:A:481:ILE:O	1:A:481:ILE:HG13	2.18	0.43
1:C:10:MET:CB	1:C:11:PRO:HD3	2.48	0.43
1:C:284:ASP:OD1	1:C:312:LYS:HB3	2.18	0.43
1:C:324:GLY:O	1:C:327:MET:HG2	2.19	0.43
1:C:363:PHE:HA	1:C:366:ASN:ND2	2.34	0.43
1:C:428:VAL:O	1:C:428:VAL:HG13	2.17	0.43
1:D:254:SER:O	1:D:331:ILE:HD11	2.18	0.43
1:D:356:ILE:HG13	1:D:357:PHE:N	2.34	0.43
1:D:385:PHE:CD2	1:D:388:VAL:HG21	2.54	0.43
1:E:113:VAL:CG2	1:E:114:PHE:CD2	2.96	0.43
1:E:481:ILE:HG13	1:E:481:ILE:O	2.18	0.43
1:F:96:VAL:CG1	1:F:105:ILE:HG23	2.47	0.43
1:F:327:MET:HG3	1:F:328:MET:N	2.33	0.43
1:F:36:VAL:CG2	1:F:37:GLY:N	2.82	0.43
1:F:403:ILE:O	1:F:403:ILE:HG23	2.19	0.43
1:H:164:ILE:CG2	1:H:165:GLY:N	2.82	0.43
1:H:33:LEU:HD22	1:H:79:ALA:HB1	2.01	0.43
1:I:115:PRO:HD3	1:I:417:GLY:HA3	2.01	0.43
1:I:222:PRO:HB3	1:I:366:ASN:HD21	1.84	0.43
1:J:160:PHE:CD2	1:J:539:MET:HE1	2.54	0.43
1:J:363:PHE:HA	1:J:366:ASN:ND2	2.34	0.43
1:J:481:ILE:O	1:J:481:ILE:HG13	2.18	0.43
1:J:19:LEU:HD11	1:J:80:ARG:HH11	1.84	0.43
1:K:327:MET:HG3	1:K:328:MET:N	2.33	0.43
1:K:249:ARG:HG3	1:K:331:ILE:HG21	2.00	0.43
1:K:363:PHE:HA	1:K:366:ASN:ND2	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:481:ILE:O	1:K:481:ILE:HG13	2.18	0.43
1:M:24:LEU:HD21	1:M:26:LEU:O	2.18	0.43
1:M:523:VAL:N	1:M:524:SER:HA	2.34	0.43
1:A:198:PHE:CE1	1:A:368:PHE:CB	3.02	0.42
1:A:550:GLU:HG2	1:A:621:LYS:HD3	2.00	0.42
1:C:114:PHE:HB2	1:C:117:ARG:CD	2.49	0.42
1:C:282:ILE:HG13	1:C:290:ILE:CG1	2.49	0.42
1:C:292:LEU:CD2	1:C:300:ILE:CD1	2.94	0.42
1:D:327:MET:HG3	1:D:328:MET:N	2.33	0.42
1:E:411:LEU:CD2	1:E:429:LYS:CB	2.95	0.42
1:F:115:PRO:HD3	1:F:417:GLY:HA3	2.01	0.42
1:F:30:ASP:CG	1:F:33:LEU:HD13	2.40	0.42
1:F:414:LEU:CB	1:F:426:VAL:HG23	2.28	0.42
1:G:36:VAL:CG1	1:G:83:VAL:HG11	2.49	0.42
1:G:36:VAL:HG13	1:G:83:VAL:HG11	2.00	0.42
1:H:268:ARG:O	1:H:272:ARG:HG3	2.19	0.42
1:H:284:ASP:OD1	1:H:312:LYS:HB3	2.18	0.42
1:H:363:PHE:HA	1:H:366:ASN:ND2	2.34	0.42
1:I:161:ARG:NH1	1:I:161:ARG:HB2	2.34	0.42
1:I:241:VAL:HG23	1:I:242:SER:N	2.33	0.42
1:I:257:ASP:OD1	1:I:262:ASP:HB2	2.19	0.42
1:I:282:ILE:CG1	1:I:290:ILE:CG1	2.94	0.42
1:I:479:LEU:N	1:I:479:LEU:CD1	2.82	0.42
1:I:99:ARG:NH1	1:I:102:CYS:SG	2.91	0.42
1:J:36:VAL:CG2	1:J:37:GLY:N	2.82	0.42
1:K:10:MET:CB	1:K:11:PRO:HD3	2.48	0.42
1:K:222:PRO:HB3	1:K:366:ASN:HD21	1.84	0.42
1:K:356:ILE:HG13	1:K:357:PHE:N	2.34	0.42
1:K:403:ILE:O	1:K:403:ILE:HG23	2.19	0.42
1:L:198:PHE:CE1	1:L:368:PHE:CB	3.02	0.42
1:L:479:LEU:CD1	1:L:479:LEU:N	2.82	0.42
1:A:254:SER:O	1:A:331:ILE:HD11	2.18	0.42
1:A:324:GLY:O	1:A:327:MET:HG2	2.19	0.42
1:A:363:PHE:HA	1:A:366:ASN:ND2	2.34	0.42
1:A:385:PHE:CD2	1:A:388:VAL:HG21	2.54	0.42
1:A:620:ILE:N	1:A:620:ILE:CD1	2.82	0.42
1:C:160:PHE:CD2	1:C:539:MET:HE1	2.54	0.42
1:C:393:VAL:HG12	1:C:394:SER:N	2.33	0.42
1:C:540:LEU:CG	1:C:541:ILE:CD1	2.94	0.42
1:C:553:LEU:O	1:C:617:LEU:HA	2.19	0.42
1:C:558:THR:CG2	1:C:559:ASP:N	2.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:253:TYR:CE2	1:E:250:PRO:HG2	2.53	0.42
1:D:305:ILE:CG2	1:D:306:GLU:N	2.82	0.42
1:E:117:ARG:HE	1:E:117:ARG:HB3	1.67	0.42
1:E:121:ALA:CB	1:E:238:THR:CG2	2.95	0.42
1:E:161:ARG:HB2	1:E:161:ARG:NH1	2.33	0.42
1:E:277:ILE:HA	1:E:292:LEU:HD11	2.00	0.42
1:E:398:LYS:CA	1:E:398:LYS:HE2	2.47	0.42
1:E:49:HIS:HB3	1:E:52:HIS:CD2	2.51	0.42
1:F:106:THR:CG2	1:F:107:VAL:N	2.81	0.42
1:F:118:PHE:CD1	1:F:118:PHE:N	2.87	0.42
1:F:284:ASP:O	1:F:287:ASN:HA	2.19	0.42
1:F:398:LYS:HE2	1:F:398:LYS:CA	2.47	0.42
1:F:481:ILE:O	1:F:481:ILE:HG13	2.18	0.42
1:G:192:ARG:HH21	1:G:594:MET:HE3	1.84	0.42
1:G:356:ILE:HG13	1:G:357:PHE:N	2.34	0.42
1:G:512:ARG:HH21	1:G:523:VAL:HG11	1.84	0.42
1:H:250:PRO:CB	1:H:253:TYR:HE1	2.31	0.42
1:H:481:ILE:HG13	1:H:481:ILE:O	2.18	0.42
1:I:114:PHE:HB2	1:I:117:ARG:CD	2.49	0.42
1:I:198:PHE:CE1	1:I:368:PHE:CB	3.02	0.42
1:J:198:PHE:CE1	1:J:368:PHE:CB	3.02	0.42
1:J:32:ARG:HB2	1:J:33:LEU:HD12	2.01	0.42
1:J:385:PHE:CD2	1:J:388:VAL:HG21	2.54	0.42
1:J:407:ILE:CG1	1:J:431:HIS:HB3	2.47	0.42
1:M:87:MET:HB3	1:M:87:MET:HE3	1.84	0.42
1:A:300:ILE:HG22	1:A:312:LYS:HZ1	1.83	0.42
1:A:541:ILE:CD1	1:A:541:ILE:N	2.83	0.42
1:A:61:VAL:CG2	1:A:62:ALA:N	2.83	0.42
1:C:6:GLN:NE2	1:C:105:ILE:HA	2.35	0.42
1:C:262:ASP:OD1	1:C:264:GLN:HB3	2.19	0.42
1:C:57:THR:CG2	1:C:58:GLU:N	2.83	0.42
1:D:115:PRO:HD3	1:D:417:GLY:HA3	2.01	0.42
1:D:30:ASP:CG	1:D:33:LEU:HD13	2.40	0.42
1:E:118:PHE:N	1:E:118:PHE:CD1	2.87	0.42
1:F:157:LEU:N	1:F:157:LEU:CD1	2.83	0.42
1:F:282:ILE:HG13	1:F:290:ILE:HG12	2.01	0.42
1:F:356:ILE:HG13	1:F:357:PHE:N	2.34	0.42
1:F:553:LEU:O	1:F:617:LEU:HA	2.19	0.42
1:G:433:LEU:HD21	1:G:543:ARG:HA	2.01	0.42
1:G:548:GLY:HA2	1:G:622:ILE:O	2.19	0.42
1:H:161:ARG:NH1	1:H:161:ARG:HB2	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:405:THR:HG22	1:H:624:PHE:HA	1.96	0.42
1:H:82:ILE:CG2	1:H:83:VAL:N	2.82	0.42
1:I:98:HIS:NE2	1:I:190:LYS:CE	2.82	0.42
1:I:267:VAL:HG13	1:I:270:ARG:NH1	2.35	0.42
1:I:282:ILE:HG13	1:I:290:ILE:HG12	2.01	0.42
1:I:285:LYS:HE2	1:I:315:GLU:HG2	2.00	0.42
1:I:403:ILE:O	1:I:403:ILE:HG23	2.19	0.42
1:J:284:ASP:OD1	1:J:312:LYS:HB3	2.18	0.42
1:J:30:ASP:CG	1:J:33:LEU:HD13	2.39	0.42
1:K:87:MET:HE2	1:K:87:MET:HB3	1.83	0.42
1:L:356:ILE:HG13	1:L:357:PHE:N	2.34	0.42
1:L:363:PHE:HA	1:L:366:ASN:ND2	2.34	0.42
1:L:39:LEU:HD11	1:L:43:THR:OG1	2.20	0.42
1:L:49:HIS:HB3	1:L:52:HIS:CD2	2.51	0.42
1:L:57:THR:CG2	1:L:58:GLU:N	2.82	0.42
1:M:356:ILE:HG13	1:M:357:PHE:N	2.34	0.42
1:M:385:PHE:CD2	1:M:388:VAL:HG21	2.54	0.42
1:M:558:THR:HG21	1:M:592:LYS:HZ1	1.84	0.42
1:A:114:PHE:HB2	1:A:117:ARG:CD	2.49	0.42
1:A:30:ASP:CG	1:A:33:LEU:HD13	2.40	0.42
1:A:403:ILE:HG23	1:A:403:ILE:O	2.19	0.42
1:A:57:THR:CG2	1:A:58:GLU:N	2.83	0.42
1:C:200:MET:HA	1:C:200:MET:HE3	2.01	0.42
1:C:201:HIS:HA	1:C:204:MET:HE3	2.01	0.42
1:C:538:HIS:CD2	1:C:539:MET:HG2	2.55	0.42
1:C:548:GLY:HA2	1:C:622:ILE:O	2.19	0.42
1:C:82:ILE:CG2	1:C:83:VAL:N	2.83	0.42
1:D:13:PHE:HB2	1:D:108:PRO:HG2	2.02	0.42
1:D:300:ILE:HG22	1:D:312:LYS:HZ3	1.84	0.42
1:D:324:GLY:O	1:D:327:MET:HG2	2.19	0.42
1:D:331:ILE:CG2	1:D:332:THR:N	2.82	0.42
1:D:32:ARG:HB2	1:D:33:LEU:HD12	2.01	0.42
1:D:57:THR:CG2	1:D:58:GLU:N	2.83	0.42
1:E:115:PRO:O	1:E:119:VAL:HG22	2.20	0.42
1:E:32:ARG:HB2	1:E:33:LEU:HD12	2.01	0.42
1:E:479:LEU:CD1	1:E:479:LEU:N	2.82	0.42
1:E:92:VAL:CG2	1:E:93:SER:N	2.83	0.42
1:F:403:ILE:HG23	1:F:622:ILE:HG23	2.02	0.42
1:F:414:LEU:HB3	1:F:418:ILE:HD11	1.99	0.42
1:G:24:LEU:HD21	1:G:26:LEU:O	2.18	0.42
1:H:437:PRO:HB3	1:H:501:HIS:CD2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:528:THR:HG22	1:I:584:ARG:NE	2.35	0.42
1:I:553:LEU:O	1:I:617:LEU:HA	2.19	0.42
1:J:113:VAL:CG2	1:J:114:PHE:CD2	2.96	0.42
1:J:115:PRO:HD3	1:J:417:GLY:HA3	2.01	0.42
1:K:24:LEU:HD21	1:K:26:LEU:O	2.18	0.42
1:K:331:ILE:CG2	1:K:332:THR:N	2.82	0.42
1:K:479:LEU:N	1:K:479:LEU:CD1	2.82	0.42
1:K:541:ILE:CD1	1:K:541:ILE:N	2.83	0.42
1:L:13:PHE:HB2	1:L:108:PRO:HG2	2.02	0.42
1:L:379:THR:CG2	1:L:380:LYS:N	2.81	0.42
1:L:385:PHE:CD2	1:L:388:VAL:HG21	2.54	0.42
1:L:61:VAL:CG2	1:L:62:ALA:N	2.83	0.42
1:M:281:TYR:CD1	1:M:289:LYS:HG3	2.55	0.42
1:M:292:LEU:HB3	1:M:371:HIS:CE1	2.39	0.42
1:A:115:PRO:O	1:A:119:VAL:HG22	2.20	0.42
1:C:255:ILE:HG12	1:C:327:MET:SD	2.59	0.42
1:C:611:LEU:N	1:C:611:LEU:HD12	2.35	0.42
1:D:208:TYR:HE2	1:D:212:ARG:HD2	1.85	0.42
1:D:550:GLU:HG2	1:D:621:LYS:HD3	2.00	0.42
1:F:305:ILE:CG2	1:F:306:GLU:N	2.82	0.42
1:F:393:VAL:HG12	1:F:394:SER:N	2.34	0.42
1:F:437:PRO:HB3	1:F:501:HIS:CD2	2.55	0.42
1:G:117:ARG:HE	1:G:117:ARG:HB3	1.67	0.42
1:G:198:PHE:CE1	1:G:368:PHE:CB	3.02	0.42
1:G:385:PHE:CD2	1:G:388:VAL:HG21	2.54	0.42
1:G:437:PRO:HB3	1:G:501:HIS:CD2	2.55	0.42
1:H:305:ILE:CG2	1:H:306:GLU:N	2.82	0.42
1:H:89:VAL:CG1	1:H:90:TYR:N	2.83	0.42
1:I:403:ILE:HG23	1:I:622:ILE:HG23	2.02	0.42
1:I:528:THR:HG21	1:I:573:VAL:HG21	1.98	0.42
1:I:528:THR:HB	1:I:529:GLU:H	1.34	0.42
1:I:540:LEU:CG	1:I:541:ILE:CD1	2.94	0.42
1:J:305:ILE:CG2	1:J:306:GLU:N	2.82	0.42
1:J:379:THR:CG2	1:J:380:LYS:N	2.81	0.42
1:K:332:THR:HG23	1:K:333:ASP:N	2.33	0.42
1:K:166:ILE:HG22	1:K:352:LEU:HD13	1.89	0.42
1:K:44:LEU:CD2	1:K:341:ASN:HB3	2.50	0.42
1:K:620:ILE:N	1:K:620:ILE:CD1	2.82	0.42
1:K:7:ALA:HA	1:K:10:MET:HE2	1.99	0.42
1:L:164:ILE:CG2	1:L:165:GLY:N	2.82	0.42
1:L:538:HIS:CD2	1:L:539:MET:HG2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:433:LEU:HD21	1:L:543:ARG:HA	2.01	0.42
1:M:13:PHE:HB2	1:M:108:PRO:HG2	2.02	0.42
1:M:393:VAL:HG12	1:M:394:SER:N	2.33	0.42
1:A:241:VAL:CG2	1:A:242:SER:N	2.82	0.42
1:A:321:HIS:CD2	1:A:364:ILE:CD1	2.99	0.42
1:C:164:ILE:CG2	1:C:165:GLY:N	2.82	0.42
1:D:113:VAL:CG2	1:D:114:PHE:CD2	2.96	0.42
1:D:39:LEU:HD11	1:D:43:THR:OG1	2.20	0.42
1:E:106:THR:CG2	1:E:107:VAL:N	2.81	0.42
1:E:198:PHE:CE1	1:E:368:PHE:CB	3.02	0.42
1:E:36:VAL:CG2	1:E:37:GLY:N	2.82	0.42
1:E:55:GLU:OE1	1:E:87:MET:HE1	2.19	0.42
1:E:57:THR:CG2	1:E:58:GLU:N	2.83	0.42
1:E:611:LEU:HD12	1:E:611:LEU:N	2.35	0.42
1:F:324:GLY:O	1:F:327:MET:HG2	2.19	0.42
1:F:222:PRO:HB3	1:F:366:ASN:HD21	1.84	0.42
1:G:281:TYR:CD1	1:G:289:LYS:HG3	2.55	0.42
1:G:290:ILE:CD1	1:G:312:LYS:CD	2.93	0.42
1:G:331:ILE:CG2	1:G:332:THR:N	2.82	0.42
1:G:39:LEU:HD11	1:G:43:THR:OG1	2.20	0.42
1:G:44:LEU:CD2	1:G:341:ASN:HB3	2.50	0.42
1:H:115:PRO:HD3	1:H:417:GLY:HA3	2.01	0.42
1:H:479:LEU:CD1	1:H:479:LEU:N	2.82	0.42
1:H:605:ARG:HD3	1:H:605:ARG:HA	1.83	0.42
1:I:305:ILE:CG2	1:I:306:GLU:N	2.82	0.42
1:I:385:PHE:CD2	1:I:388:VAL:HG21	2.54	0.42
1:I:437:PRO:HB3	1:I:501:HIS:CD2	2.55	0.42
1:J:290:ILE:CD1	1:J:312:LYS:CD	2.93	0.42
1:J:414:LEU:CB	1:J:418:ILE:CD1	2.94	0.42
1:J:479:LEU:N	1:J:479:LEU:CD1	2.82	0.42
1:J:541:ILE:N	1:J:541:ILE:CD1	2.83	0.42
1:K:157:LEU:N	1:K:157:LEU:CD1	2.83	0.42
1:K:115:PRO:HD3	1:K:417:GLY:HA3	2.01	0.42
1:K:548:GLY:HA2	1:K:622:ILE:O	2.19	0.42
1:K:89:VAL:CG1	1:K:90:TYR:N	2.83	0.42
1:L:32:ARG:HB2	1:L:33:LEU:HD12	2.01	0.42
1:L:611:LEU:N	1:L:611:LEU:HD12	2.35	0.42
1:M:282:ILE:HG13	1:M:290:ILE:HG12	2.01	0.42
1:M:481:ILE:HG13	1:M:481:ILE:O	2.18	0.42
1:M:53:LEU:HB3	1:M:180:THR:HG22	2.02	0.42
1:A:106:THR:CG2	1:A:107:VAL:N	2.81	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:393:VAL:HG12	1:A:394:SER:N	2.33	0.42
1:A:437:PRO:HB3	1:A:501:HIS:CD2	2.55	0.42
1:A:38:ILE:HG13	1:A:55:GLU:OE2	2.20	0.42
1:C:356:ILE:HG13	1:C:357:PHE:N	2.34	0.42
1:C:479:LEU:CD1	1:C:479:LEU:N	2.82	0.42
1:C:76:CYS:SG	1:C:88:PHE:HZ	2.43	0.42
1:D:164:ILE:CG2	1:D:165:GLY:N	2.82	0.42
1:D:403:ILE:HG23	1:D:622:ILE:HG23	2.02	0.42
1:D:414:LEU:HB3	1:D:418:ILE:HD11	1.99	0.42
1:E:282:ILE:HG12	1:E:290:ILE:HG13	2.01	0.42
1:E:324:GLY:O	1:E:327:MET:HG2	2.19	0.42
1:E:44:LEU:CD2	1:E:341:ASN:HB3	2.50	0.42
1:E:437:PRO:HB3	1:E:501:HIS:CD2	2.55	0.42
1:E:6:GLN:NE2	1:E:105:ILE:HA	2.35	0.42
1:F:385:PHE:CD2	1:F:388:VAL:HG21	2.54	0.42
1:F:49:HIS:HB3	1:F:52:HIS:CD2	2.51	0.42
1:F:89:VAL:CG1	1:F:90:TYR:N	2.83	0.42
1:F:92:VAL:CG2	1:F:93:SER:N	2.83	0.42
1:G:305:ILE:CG2	1:G:306:GLU:N	2.82	0.42
1:G:398:LYS:CA	1:G:398:LYS:HE2	2.47	0.42
1:G:403:ILE:HG23	1:G:403:ILE:O	2.19	0.42
1:G:538:HIS:CD2	1:G:539:MET:HG2	2.55	0.42
1:H:118:PHE:N	1:H:118:PHE:CD1	2.88	0.42
1:H:151:LEU:HD13	1:J:467:LEU:HD11	2.01	0.42
1:H:433:LEU:HD21	1:H:543:ARG:HA	2.01	0.42
1:I:115:PRO:O	1:I:119:VAL:HG22	2.20	0.42
1:I:249:ARG:HG2	1:I:250:PRO:O	2.20	0.42
1:I:548:GLY:HA2	1:I:622:ILE:O	2.19	0.42
1:I:620:ILE:N	1:I:620:ILE:CD1	2.82	0.42
1:I:76:CYS:SG	1:I:88:PHE:HZ	2.43	0.42
1:I:96:VAL:HG13	1:I:105:ILE:HG23	2.02	0.42
1:J:115:PRO:O	1:J:119:VAL:HG22	2.20	0.42
1:J:437:PRO:HB3	1:J:501:HIS:CD2	2.55	0.42
1:K:281:TYR:CD1	1:K:289:LYS:HG3	2.55	0.42
1:K:57:THR:HG23	1:K:58:GLU:N	2.34	0.42
1:L:403:ILE:O	1:L:403:ILE:HG23	2.19	0.42
1:L:411:LEU:CD2	1:L:429:LYS:HA	2.41	0.42
1:L:481:ILE:O	1:L:481:ILE:HG13	2.18	0.42
1:M:113:VAL:CG2	1:M:114:PHE:N	2.83	0.42
1:M:257:ASP:OD1	1:M:262:ASP:HB2	2.19	0.42
1:M:305:ILE:CG2	1:M:306:GLU:N	2.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:403:ILE:HG23	1:M:622:ILE:HG23	2.02	0.42
1:M:479:LEU:CD1	1:M:479:LEU:N	2.82	0.42
1:M:530:TYR:CD2	1:M:531:CYS:SG	3.06	0.42
1:M:538:HIS:CD2	1:M:539:MET:HG2	2.55	0.42
1:A:266:MET:SD	1:A:320:LEU:HD12	2.60	0.42
1:A:548:GLY:HA2	1:A:622:ILE:O	2.19	0.42
1:C:157:LEU:N	1:C:157:LEU:CD1	2.83	0.42
1:C:305:ILE:CG2	1:C:306:GLU:N	2.82	0.42
1:D:157:LEU:N	1:D:157:LEU:CD1	2.83	0.42
1:D:200:MET:HE3	1:D:200:MET:HA	2.02	0.42
1:D:49:HIS:HB3	1:D:52:HIS:CD2	2.51	0.42
1:D:437:PRO:HB3	1:D:501:HIS:CD2	2.55	0.42
1:D:57:THR:HG23	1:D:58:GLU:N	2.34	0.42
1:E:13:PHE:HB2	1:E:108:PRO:HG2	2.02	0.42
1:E:414:LEU:HB3	1:E:418:ILE:HD11	1.99	0.42
1:E:115:PRO:HD3	1:E:417:GLY:HA3	2.01	0.42
1:E:541:ILE:N	1:E:541:ILE:CD1	2.83	0.42
1:F:331:ILE:CG2	1:F:332:THR:N	2.82	0.42
1:F:479:LEU:N	1:F:479:LEU:CD1	2.82	0.42
1:F:511:VAL:HG23	1:F:531:CYS:CB	2.50	0.42
1:F:540:LEU:CD2	1:F:541:ILE:HD11	2.50	0.42
1:F:558:THR:CG2	1:F:559:ASP:N	2.82	0.42
1:F:57:THR:HG23	1:F:58:GLU:N	2.33	0.42
1:G:115:PRO:O	1:G:119:VAL:HG22	2.20	0.42
1:G:282:ILE:HG13	1:G:290:ILE:HG12	2.01	0.42
1:G:115:PRO:HD3	1:G:417:GLY:HA3	2.01	0.42
1:G:611:LEU:N	1:G:611:LEU:HD12	2.35	0.42
1:H:115:PRO:O	1:H:119:VAL:HG22	2.20	0.42
1:H:13:PHE:HB2	1:H:108:PRO:HG2	2.02	0.42
1:H:92:VAL:CG2	1:H:93:SER:N	2.83	0.42
1:I:164:ILE:CG2	1:I:165:GLY:N	2.82	0.42
1:I:324:GLY:O	1:I:327:MET:HG2	2.19	0.42
1:I:49:HIS:HB3	1:I:52:HIS:CD2	2.51	0.42
1:J:281:TYR:CD1	1:J:289:LYS:HG3	2.55	0.42
1:J:548:GLY:HA2	1:J:622:ILE:O	2.19	0.42
1:J:611:LEU:HD12	1:J:611:LEU:N	2.35	0.42
1:J:620:ILE:CD1	1:J:620:ILE:N	2.82	0.42
1:K:114:PHE:HB2	1:K:117:ARG:CD	2.49	0.42
1:K:164:ILE:CG2	1:K:165:GLY:N	2.82	0.42
1:L:290:ILE:CD1	1:L:312:LYS:CD	2.93	0.42
1:M:234:ALA:HA	1:M:235:PRO:HD2	1.89	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:261:VAL:CG1	1:M:262:ASP:N	2.82	0.42
1:M:30:ASP:CG	1:M:33:LEU:HD13	2.40	0.42
1:A:244:LEU:N	1:A:244:LEU:CD1	2.82	0.42
1:A:281:TYR:CD1	1:A:289:LYS:HG3	2.55	0.42
1:A:292:LEU:CD2	1:A:300:ILE:CD1	2.94	0.42
1:A:611:LEU:HD12	1:A:611:LEU:N	2.35	0.42
1:C:115:PRO:HD3	1:C:417:GLY:HA3	2.01	0.42
1:C:116:ASP:HA	1:C:124:ILE:HD13	2.01	0.42
1:C:115:PRO:O	1:C:119:VAL:HG22	2.20	0.42
1:C:151:LEU:H	1:C:151:LEU:HD22	1.82	0.42
1:C:379:THR:CG2	1:C:380:LYS:N	2.81	0.42
1:C:398:LYS:HE2	1:C:398:LYS:CA	2.47	0.42
1:C:97:LEU:HD23	1:C:97:LEU:O	2.20	0.42
1:D:282:ILE:HG12	1:D:290:ILE:HG13	2.01	0.42
1:D:479:LEU:CD1	1:D:479:LEU:N	2.82	0.42
1:D:84:ASN:ND2	1:D:87:MET:HB2	2.35	0.42
1:E:511:VAL:HG23	1:E:531:CYS:CB	2.50	0.42
1:E:61:VAL:CG2	1:E:62:ALA:N	2.83	0.42
1:F:6:GLN:NE2	1:F:105:ILE:HA	2.35	0.42
1:F:115:PRO:O	1:F:119:VAL:HG22	2.20	0.42
1:F:99:ARG:O	1:F:102:CYS:HB2	2.20	0.42
1:G:208:TYR:HE2	1:G:212:ARG:HD2	1.85	0.42
1:G:363:PHE:HA	1:G:366:ASN:ND2	2.34	0.42
1:G:511:VAL:HG23	1:G:531:CYS:CB	2.50	0.42
1:H:113:VAL:CG2	1:H:114:PHE:N	2.83	0.42
1:H:10:MET:CB	1:H:11:PRO:HD3	2.48	0.42
1:H:282:ILE:HD11	1:H:290:ILE:HD11	2.00	0.42
1:H:324:GLY:O	1:H:327:MET:HG2	2.19	0.42
1:H:321:HIS:CD2	1:H:364:ILE:CD1	2.99	0.42
1:H:385:PHE:CD2	1:H:388:VAL:HG21	2.54	0.42
1:H:1:THR:HG23	1:H:3:ALA:N	2.35	0.42
1:H:403:ILE:HG23	1:H:622:ILE:HG23	2.02	0.42
1:H:611:LEU:N	1:H:611:LEU:HD12	2.35	0.42
1:I:241:VAL:CG2	1:I:242:SER:N	2.82	0.42
1:I:44:LEU:CD2	1:I:341:ASN:HB3	2.50	0.42
1:I:57:THR:CG2	1:I:58:GLU:N	2.82	0.42
1:I:611:LEU:HD12	1:I:611:LEU:N	2.35	0.42
1:J:324:GLY:O	1:J:327:MET:HG2	2.19	0.42
1:J:553:LEU:O	1:J:617:LEU:HA	2.19	0.42
1:J:570:GLU:HG2	1:J:571:ASN:H	1.85	0.42
1:K:264:GLN:O	1:K:268:ARG:HG3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:385:PHE:CD2	1:K:388:VAL:HG21	2.54	0.42
1:K:538:HIS:CD2	1:K:539:MET:HG2	2.55	0.42
1:L:201:HIS:HA	1:L:204:MET:HE2	2.00	0.42
1:L:282:ILE:HG13	1:L:290:ILE:HG12	2.01	0.42
1:L:44:LEU:CD2	1:L:341:ASN:HB3	2.50	0.42
1:L:192:ARG:HH22	1:L:594:MET:HG3	1.80	0.42
1:M:105:ILE:HD13	1:M:105:ILE:HA	1.85	0.42
1:M:321:HIS:CD2	1:M:364:ILE:CD1	2.99	0.42
1:M:115:PRO:HD3	1:M:417:GLY:HA3	2.01	0.42
1:M:44:LEU:CD2	1:M:341:ASN:HB3	2.50	0.42
1:M:611:LEU:HD12	1:M:611:LEU:N	2.35	0.42
1:A:116:ASP:HA	1:A:124:ILE:HD13	2.00	0.42
1:A:118:PHE:N	1:A:118:PHE:CD1	2.87	0.42
1:A:123:THR:CG2	1:A:124:ILE:N	2.82	0.42
1:A:36:VAL:CG2	1:A:37:GLY:N	2.82	0.42
1:A:403:ILE:HG23	1:A:622:ILE:HG23	2.02	0.42
1:A:411:LEU:CD2	1:A:429:LYS:HA	2.41	0.42
1:A:540:LEU:CD2	1:A:541:ILE:HD11	2.50	0.42
1:C:118:PHE:N	1:C:118:PHE:CD1	2.88	0.42
1:C:123:THR:CG2	1:C:124:ILE:N	2.82	0.42
1:C:385:PHE:CD2	1:C:388:VAL:HG21	2.54	0.42
1:C:38:ILE:HD12	1:D:605:ARG:NH2	2.34	0.42
1:C:44:LEU:CD2	1:C:341:ASN:HB3	2.50	0.42
1:C:620:ILE:N	1:C:620:ILE:CD1	2.82	0.42
1:D:378:TYR:CD1	1:D:382:GLU:HG2	2.55	0.42
1:E:356:ILE:HG13	1:E:357:PHE:N	2.34	0.42
1:E:395:ILE:CD1	1:E:620:ILE:CG2	2.95	0.42
1:F:13:PHE:HB2	1:F:108:PRO:HG2	2.02	0.42
1:F:61:VAL:CG2	1:F:62:ALA:N	2.83	0.42
1:G:121:ALA:CB	1:G:238:THR:CG2	2.95	0.42
1:G:164:ILE:CG2	1:G:165:GLY:N	2.82	0.42
1:G:541:ILE:CD1	1:G:541:ILE:N	2.83	0.42
1:H:123:THR:CG2	1:H:124:ILE:N	2.82	0.42
1:H:49:HIS:HB3	1:H:52:HIS:CD2	2.51	0.42
1:H:112:GLU:OE1	1:H:514:PHE:CD2	2.73	0.42
1:H:57:THR:HG23	1:H:58:GLU:N	2.34	0.42
1:H:84:ASN:ND2	1:H:87:MET:HB2	2.35	0.42
1:I:279:MET:HE3	1:I:281:TYR:CZ	2.55	0.42
1:I:290:ILE:CD1	1:I:312:LYS:CD	2.93	0.42
1:J:53:LEU:HB3	1:J:180:THR:HG22	2.02	0.42
1:K:285:LYS:HE2	1:K:315:GLU:HG2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:324:GLY:O	1:K:327:MET:HG2	2.19	0.42
1:K:30:ASP:CG	1:K:33:LEU:HD13	2.40	0.42
1:L:115:PRO:HD3	1:L:417:GLY:HA3	2.01	0.42
1:L:305:ILE:CG2	1:L:306:GLU:N	2.82	0.42
1:M:115:PRO:O	1:M:119:VAL:HG22	2.20	0.42
1:M:437:PRO:HB3	1:M:501:HIS:CD2	2.55	0.42
1:A:305:ILE:CG2	1:A:306:GLU:N	2.82	0.41
1:C:267:VAL:HG13	1:C:270:ARG:NH2	2.35	0.41
1:C:331:ILE:CG2	1:C:332:THR:N	2.82	0.41
1:C:437:PRO:HB3	1:C:501:HIS:CD2	2.55	0.41
1:C:620:ILE:H	1:C:620:ILE:CD1	2.25	0.41
1:D:281:TYR:CD1	1:D:289:LYS:HG3	2.55	0.41
1:E:30:ASP:CB	1:E:33:LEU:HB2	2.50	0.41
1:E:538:HIS:CD2	1:E:539:MET:HG2	2.55	0.41
1:E:553:LEU:O	1:E:617:LEU:HA	2.19	0.41
1:E:84:ASN:ND2	1:E:87:MET:HB2	2.35	0.41
1:E:76:CYS:SG	1:E:88:PHE:HZ	2.43	0.41
1:E:97:LEU:O	1:E:97:LEU:HD23	2.20	0.41
1:F:376:HIS:HA	1:F:377:PRO:HD3	1.83	0.41
1:G:13:PHE:HB2	1:G:108:PRO:HG2	2.02	0.41
1:G:282:ILE:CG1	1:G:290:ILE:CG1	2.94	0.41
1:H:281:TYR:CD1	1:H:289:LYS:HG3	2.55	0.41
1:J:33:LEU:HD21	1:J:79:ALA:HB2	1.99	0.41
1:K:113:VAL:CG2	1:K:114:PHE:N	2.83	0.41
1:K:393:VAL:HG12	1:K:394:SER:N	2.33	0.41
1:K:39:LEU:HB2	1:K:55:GLU:OE2	2.20	0.41
1:K:1:THR:HG23	1:K:3:ALA:N	2.35	0.41
1:K:570:GLU:HG2	1:K:571:ASN:H	1.85	0.41
1:L:115:PRO:O	1:L:119:VAL:HG22	2.20	0.41
1:L:331:ILE:CG2	1:L:332:THR:N	2.82	0.41
1:L:1:THR:HG23	1:L:3:ALA:N	2.35	0.41
1:M:433:LEU:HD21	1:M:543:ARG:HA	2.01	0.41
1:A:255:ILE:HD12	1:A:331:ILE:HD13	2.01	0.41
1:A:290:ILE:CD1	1:A:312:LYS:CD	2.93	0.41
1:A:378:TYR:CD1	1:A:382:GLU:HG2	2.56	0.41
1:A:379:THR:CG2	1:A:380:LYS:N	2.81	0.41
1:A:92:VAL:CG2	1:A:93:SER:N	2.83	0.41
1:C:414:LEU:CB	1:C:418:ILE:CD1	2.95	0.41
1:C:588:TYR:HA	1:C:589:PRO:HD3	1.83	0.41
1:D:115:PRO:O	1:D:119:VAL:HG22	2.20	0.41
1:D:271:GLU:HA	1:D:271:GLU:OE1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:274:LEU:O	1:D:278:ASN:ND2	2.53	0.41
1:D:363:PHE:HA	1:D:366:ASN:ND2	2.34	0.41
1:D:1:THR:HG23	1:D:3:ALA:N	2.35	0.41
1:D:541:ILE:CD1	1:D:541:ILE:N	2.83	0.41
1:D:620:ILE:N	1:D:620:ILE:CD1	2.82	0.41
1:D:89:VAL:CG1	1:D:90:TYR:N	2.83	0.41
1:D:99:ARG:O	1:D:102:CYS:HB2	2.21	0.41
1:E:5:LYS:NZ	1:E:101:ASP:O	2.42	0.41
1:E:378:TYR:CD1	1:E:382:GLU:HG2	2.56	0.41
1:E:1:THR:HG23	1:E:3:ALA:N	2.35	0.41
1:E:403:ILE:HG23	1:E:622:ILE:HG23	2.02	0.41
1:F:164:ILE:CG2	1:F:165:GLY:N	2.82	0.41
1:F:378:TYR:CD1	1:F:382:GLU:HG2	2.55	0.41
1:F:39:LEU:HD11	1:F:43:THR:OG1	2.20	0.41
1:F:433:LEU:HD21	1:F:543:ARG:HA	2.01	0.41
1:F:565:VAL:HG12	1:F:566:ALA:N	2.35	0.41
1:F:620:ILE:N	1:F:620:ILE:CD1	2.82	0.41
1:G:258:LEU:HD13	1:G:330:ASN:ND2	2.28	0.41
1:G:292:LEU:HB3	1:G:371:HIS:CE1	2.39	0.41
1:G:32:ARG:HB2	1:G:33:LEU:HD12	2.01	0.41
1:G:64:TYR:CE2	1:G:95:ALA:HA	2.55	0.41
1:H:149:ASN:OD1	1:H:151:LEU:HD22	2.20	0.41
1:H:57:THR:CG2	1:H:58:GLU:N	2.82	0.41
1:I:113:VAL:CG2	1:I:114:PHE:N	2.83	0.41
1:I:538:HIS:CD2	1:I:539:MET:HG2	2.55	0.41
1:I:541:ILE:CG2	1:I:622:ILE:CD1	2.99	0.41
1:J:258:LEU:HD13	1:J:330:ASN:ND2	2.28	0.41
1:J:313:ASN:HB3	1:J:317:TYR:CD2	2.55	0.41
1:J:64:TYR:CE1	1:J:95:ALA:HA	2.55	0.41
1:K:36:VAL:HG22	1:K:37:GLY:H	1.85	0.41
1:K:611:LEU:N	1:K:611:LEU:HD12	2.35	0.41
1:L:437:PRO:HB3	1:L:501:HIS:CD2	2.55	0.41
1:L:89:VAL:CG1	1:L:90:TYR:N	2.83	0.41
1:M:105:ILE:O	1:M:527:SER:HA	2.19	0.41
1:M:157:LEU:N	1:M:157:LEU:CD1	2.83	0.41
1:M:378:TYR:CD1	1:M:382:GLU:HG2	2.56	0.41
1:A:331:ILE:CG2	1:A:332:THR:N	2.82	0.41
1:A:356:ILE:HG13	1:A:357:PHE:N	2.34	0.41
1:A:420:PHE:CD2	1:A:421:GLY:O	2.74	0.41
1:A:479:LEU:CD1	1:A:479:LEU:N	2.82	0.41
1:A:511:VAL:HG23	1:A:531:CYS:CB	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:605:ARG:HH22	1:F:38:ILE:CG2	2.32	0.41
1:D:611:LEU:HD12	1:D:611:LEU:N	2.35	0.41
1:D:82:ILE:CG2	1:D:83:VAL:N	2.83	0.41
1:E:270:ARG:O	1:E:274:LEU:HG	2.19	0.41
1:E:290:ILE:CD1	1:E:312:LYS:CD	2.93	0.41
1:F:305:ILE:HD13	1:F:305:ILE:C	2.41	0.41
1:F:512:ARG:HG2	1:F:530:TYR:CE2	2.56	0.41
1:G:114:PHE:HB2	1:G:117:ARG:CD	2.49	0.41
1:G:570:GLU:HG2	1:G:571:ASN:H	1.85	0.41
1:H:282:ILE:CG1	1:H:290:ILE:CG1	2.94	0.41
1:H:558:THR:CG2	1:H:559:ASP:N	2.82	0.41
1:H:602:ILE:HG22	1:H:604:ALA:H	1.85	0.41
1:I:97:LEU:O	1:I:97:LEU:HD23	2.20	0.41
1:J:282:ILE:HG12	1:J:290:ILE:HG13	2.01	0.41
1:J:379:THR:HG22	1:J:380:LYS:H	1.81	0.41
1:K:420:PHE:CD2	1:K:421:GLY:O	2.74	0.41
1:K:433:LEU:HD21	1:K:543:ARG:HA	2.01	0.41
1:K:92:VAL:CG2	1:K:93:SER:N	2.83	0.41
1:L:6:GLN:NE2	1:L:105:ILE:HA	2.35	0.41
1:L:114:PHE:HB2	1:L:117:ARG:CD	2.49	0.41
1:L:181:TRP:HZ2	1:L:188:LYS:HG3	1.86	0.41
1:L:277:ILE:HA	1:L:292:LEU:CD1	2.51	0.41
1:L:398:LYS:HE2	1:L:398:LYS:CA	2.47	0.41
1:L:570:GLU:HG2	1:L:571:ASN:H	1.85	0.41
1:L:8:ARG:NH2	1:L:69:PHE:HD2	2.03	0.41
1:M:305:ILE:C	1:M:305:ILE:HD13	2.41	0.41
1:M:324:GLY:O	1:M:327:MET:HG2	2.19	0.41
1:M:112:GLU:OE1	1:M:514:PHE:CD2	2.73	0.41
1:M:160:PHE:CD2	1:M:539:MET:HE3	2.55	0.41
1:A:512:ARG:HG2	1:A:530:TYR:CE2	2.56	0.41
1:A:541:ILE:CG2	1:A:622:ILE:CD1	2.99	0.41
1:A:82:ILE:CG2	1:A:83:VAL:N	2.83	0.41
1:A:89:VAL:CG1	1:A:90:TYR:N	2.83	0.41
1:C:511:VAL:HG23	1:C:531:CYS:CB	2.50	0.41
1:C:541:ILE:CG2	1:C:622:ILE:CD1	2.98	0.41
1:C:541:ILE:N	1:C:541:ILE:CD1	2.83	0.41
1:D:6:GLN:NE2	1:D:105:ILE:HA	2.35	0.41
1:D:118:PHE:CD1	1:D:118:PHE:N	2.88	0.41
1:D:398:LYS:HE2	1:D:398:LYS:CA	2.47	0.41
1:D:403:ILE:O	1:D:403:ILE:HG23	2.19	0.41
1:D:433:LEU:HD21	1:D:543:ARG:HA	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:553:LEU:O	1:D:617:LEU:HA	2.19	0.41
1:E:157:LEU:N	1:E:157:LEU:CD1	2.83	0.41
1:E:44:LEU:HD11	1:E:341:ASN:CG	2.41	0.41
1:E:512:ARG:HG2	1:E:530:TYR:CE2	2.56	0.41
1:E:82:ILE:CG2	1:E:83:VAL:N	2.82	0.41
1:F:113:VAL:CG2	1:F:114:PHE:N	2.83	0.41
1:F:181:TRP:HZ2	1:F:188:LYS:HG3	1.86	0.41
1:F:44:LEU:CD2	1:F:341:ASN:HB3	2.50	0.41
1:F:611:LEU:HD12	1:F:611:LEU:N	2.35	0.41
1:G:305:ILE:HD13	1:G:305:ILE:C	2.41	0.41
1:G:378:TYR:CD1	1:G:382:GLU:HG2	2.55	0.41
1:G:44:LEU:HD11	1:G:341:ASN:CG	2.41	0.41
1:G:541:ILE:CG2	1:G:622:ILE:CD1	2.99	0.41
1:H:378:TYR:CD1	1:H:382:GLU:HG2	2.55	0.41
1:I:281:TYR:CD1	1:I:289:LYS:HG3	2.55	0.41
1:I:433:LEU:HD21	1:I:543:ARG:HA	2.01	0.41
1:I:61:VAL:CG2	1:I:62:ALA:N	2.83	0.41
1:J:117:ARG:HE	1:J:117:ARG:HB3	1.68	0.41
1:J:356:ILE:HG13	1:J:357:PHE:N	2.34	0.41
1:J:403:ILE:O	1:J:403:ILE:HG23	2.19	0.41
1:J:420:PHE:CD2	1:J:421:GLY:O	2.74	0.41
1:J:511:VAL:HG23	1:J:531:CYS:CB	2.50	0.41
1:J:538:HIS:CD2	1:J:539:MET:HG2	2.55	0.41
1:K:378:TYR:CD1	1:K:382:GLU:HG2	2.55	0.41
1:K:437:PRO:HB3	1:K:501:HIS:CD2	2.55	0.41
1:L:378:TYR:CD1	1:L:382:GLU:HG2	2.55	0.41
1:L:414:LEU:CB	1:L:418:ILE:CD1	2.95	0.41
1:L:420:PHE:CD2	1:L:421:GLY:O	2.74	0.41
1:M:10:MET:CB	1:M:11:PRO:HD3	2.48	0.41
1:M:508:ILE:HD11	1:M:531:CYS:HA	2.02	0.41
1:A:264:GLN:HE21	1:G:224:HIS:HE1	1.69	0.41
1:A:30:ASP:CB	1:A:33:LEU:HB2	2.50	0.41
1:A:538:HIS:CD2	1:A:539:MET:HG2	2.55	0.41
1:C:332:THR:HG23	1:C:333:ASP:N	2.34	0.41
1:C:403:ILE:HG23	1:C:403:ILE:O	2.19	0.41
1:D:414:LEU:CB	1:D:418:ILE:CD1	2.95	0.41
1:E:267:VAL:HG13	1:E:270:ARG:HH22	1.86	0.41
1:E:319:SER:O	1:E:323:TRP:CD1	2.74	0.41
1:E:376:HIS:HA	1:E:377:PRO:HD3	1.84	0.41
1:E:420:PHE:CD2	1:E:421:GLY:O	2.74	0.41
1:E:105:ILE:O	1:E:527:SER:HA	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:171:TRP:HE3	1:F:349:SER:HG	1.66	0.41
1:F:541:ILE:CD1	1:F:541:ILE:N	2.83	0.41
1:F:76:CYS:SG	1:F:88:PHE:HZ	2.43	0.41
1:G:1:THR:HG23	1:G:3:ALA:N	2.35	0.41
1:G:403:ILE:HG23	1:G:622:ILE:HG23	2.02	0.41
1:G:558:THR:CG2	1:G:559:ASP:N	2.82	0.41
1:H:282:ILE:HG13	1:H:290:ILE:HG12	2.01	0.41
1:H:223:PHE:N	1:H:359:ARG:HG2	2.35	0.41
1:H:420:PHE:CD2	1:H:421:GLY:O	2.74	0.41
1:I:397:SER:HB3	1:I:398:LYS:H	1.74	0.41
1:I:528:THR:HG22	1:I:584:ARG:HG3	2.03	0.41
1:J:113:VAL:CG2	1:J:114:PHE:N	2.83	0.41
1:J:540:LEU:CD2	1:J:541:ILE:HD11	2.50	0.41
1:J:541:ILE:CG2	1:J:542:PRO:HD2	2.50	0.41
1:L:281:TYR:CD1	1:L:289:LYS:HG3	2.55	0.41
1:M:32:ARG:HB2	1:M:33:LEU:HD12	2.01	0.41
1:M:548:GLY:HA2	1:M:622:ILE:O	2.19	0.41
1:A:44:LEU:CD2	1:A:341:ASN:HB3	2.50	0.41
1:A:97:LEU:O	1:A:97:LEU:HD23	2.20	0.41
1:A:64:TYR:HA	1:A:99:ARG:HD2	2.02	0.41
1:C:113:VAL:CG2	1:C:114:PHE:N	2.83	0.41
1:C:414:LEU:CB	1:C:426:VAL:HG23	2.28	0.41
1:C:57:THR:HG23	1:C:58:GLU:N	2.34	0.41
1:C:61:VAL:CG2	1:C:62:ALA:N	2.83	0.41
1:D:420:PHE:CD2	1:D:421:GLY:O	2.74	0.41
1:D:44:LEU:CD2	1:D:341:ASN:HB3	2.50	0.41
1:D:538:HIS:CD2	1:D:539:MET:HG2	2.55	0.41
1:E:403:ILE:O	1:E:403:ILE:HG23	2.19	0.41
1:E:407:ILE:CD1	1:E:431:HIS:CD2	3.04	0.41
1:F:277:ILE:HA	1:F:292:LEU:HD11	2.03	0.41
1:F:304:ILE:HG23	1:F:317:TYR:HB3	2.02	0.41
1:F:32:ARG:HB2	1:F:33:LEU:HD12	2.01	0.41
1:F:1:THR:HG23	1:F:3:ALA:N	2.35	0.41
1:F:541:ILE:CG2	1:F:622:ILE:CD1	2.99	0.41
1:F:97:LEU:HD23	1:F:97:LEU:O	2.20	0.41
1:G:118:PHE:CD1	1:G:118:PHE:N	2.87	0.41
1:G:512:ARG:HG2	1:G:530:TYR:CE2	2.56	0.41
1:H:114:PHE:HB2	1:H:117:ARG:CD	2.49	0.41
1:H:403:ILE:O	1:H:403:ILE:HG23	2.19	0.41
1:H:541:ILE:CG2	1:H:622:ILE:CD1	2.99	0.41
1:H:541:ILE:N	1:H:541:ILE:CD1	2.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:249:ARG:HG3	1:I:331:ILE:HG21	2.03	0.41
1:I:363:PHE:HA	1:I:366:ASN:ND2	2.34	0.41
1:I:89:VAL:CG1	1:I:90:TYR:N	2.83	0.41
1:J:282:ILE:CG1	1:J:290:ILE:CG1	2.94	0.41
1:J:292:LEU:HB3	1:J:371:HIS:CE1	2.39	0.41
1:J:305:ILE:HD13	1:J:305:ILE:C	2.41	0.41
1:J:44:LEU:CD2	1:J:341:ASN:HB3	2.50	0.41
1:K:175:ILE:CG2	1:K:528:THR:HG21	2.48	0.41
1:K:403:ILE:HG23	1:K:622:ILE:HG23	2.02	0.41
1:K:61:VAL:CG2	1:K:62:ALA:N	2.83	0.41
1:L:420:PHE:HB2	1:L:423:ASP:OD1	2.21	0.41
1:L:84:ASN:ND2	1:L:87:MET:HB2	2.35	0.41
1:L:92:VAL:CG2	1:L:93:SER:N	2.83	0.41
1:M:118:PHE:N	1:M:118:PHE:CD1	2.87	0.41
1:M:164:ILE:CG2	1:M:165:GLY:N	2.82	0.41
1:M:331:ILE:CG2	1:M:332:THR:N	2.82	0.41
1:M:558:THR:CG2	1:M:559:ASP:N	2.82	0.41
1:A:570:GLU:HG2	1:A:571:ASN:H	1.85	0.41
1:A:612:THR:HB	1:A:613:PRO:HD2	2.03	0.41
1:A:97:LEU:HD12	1:A:175:ILE:HG22	2.03	0.41
1:A:99:ARG:O	1:A:102:CYS:HB2	2.20	0.41
1:C:420:PHE:CD2	1:C:421:GLY:O	2.74	0.41
1:C:571:ASN:O	1:C:573:VAL:HG22	2.21	0.41
1:C:92:VAL:CG2	1:C:93:SER:N	2.82	0.41
1:D:554:PHE:CD1	1:D:617:LEU:CD1	3.04	0.41
1:D:558:THR:CG2	1:D:559:ASP:N	2.82	0.41
1:D:570:GLU:HG2	1:D:571:ASN:H	1.86	0.41
1:E:541:ILE:CG2	1:E:622:ILE:CD1	2.99	0.41
1:E:554:PHE:CD1	1:E:617:LEU:CD1	3.04	0.41
1:F:363:PHE:HA	1:F:366:ASN:ND2	2.34	0.41
1:F:57:THR:CG2	1:F:58:GLU:N	2.82	0.41
1:G:277:ILE:HA	1:G:292:LEU:HD11	2.02	0.41
1:G:319:SER:O	1:G:323:TRP:CD1	2.74	0.41
1:G:479:LEU:CD1	1:G:479:LEU:N	2.82	0.41
1:H:6:GLN:NE2	1:H:105:ILE:HA	2.35	0.41
1:I:378:TYR:CD1	1:I:382:GLU:HG2	2.55	0.41
1:I:476:GLN:O	1:I:480:PHE:CD2	2.74	0.41
1:J:118:PHE:CD1	1:J:118:PHE:N	2.87	0.41
1:J:271:GLU:HA	1:J:271:GLU:OE1	2.20	0.41
1:K:398:LYS:HE2	1:K:398:LYS:CA	2.47	0.41
1:K:541:ILE:CG2	1:K:622:ILE:CD1	2.99	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:76:CYS:SG	1:K:88:PHE:HZ	2.43	0.41
1:K:82:ILE:CG2	1:K:83:VAL:N	2.82	0.41
1:L:116:ASP:OD2	1:L:239:SER:HA	2.20	0.41
1:L:282:ILE:HG12	1:L:290:ILE:HG13	2.01	0.41
1:L:319:SER:O	1:L:323:TRP:CD1	2.74	0.41
1:L:76:CYS:SG	1:L:88:PHE:HZ	2.43	0.41
1:L:99:ARG:O	1:L:102:CYS:HB2	2.20	0.41
1:M:208:TYR:HE2	1:M:212:ARG:HD2	1.85	0.41
1:M:37:GLY:HA2	1:M:83:VAL:HA	2.03	0.41
1:M:403:ILE:O	1:M:403:ILE:HG23	2.19	0.41
1:A:13:PHE:HB2	1:A:108:PRO:HG2	2.01	0.41
1:A:1:THR:HG23	1:A:3:ALA:N	2.35	0.41
1:A:76:CYS:SG	1:A:88:PHE:HZ	2.43	0.41
1:C:181:TRP:HZ2	1:C:188:LYS:HG3	1.86	0.41
1:C:306:GLU:HB3	1:C:307:SER:CA	2.51	0.41
1:C:378:TYR:CD1	1:C:382:GLU:HG2	2.55	0.41
1:C:512:ARG:HG2	1:C:530:TYR:CE2	2.56	0.41
1:C:460:LEU:CD1	1:C:551:PHE:HB3	2.51	0.41
1:C:554:PHE:CD1	1:C:617:LEU:CD1	3.04	0.41
1:C:89:VAL:CG1	1:C:90:TYR:N	2.83	0.41
1:C:99:ARG:O	1:C:102:CYS:HB2	2.20	0.41
1:D:114:PHE:HB2	1:D:117:ARG:CD	2.50	0.41
1:D:61:VAL:CG2	1:D:62:ALA:N	2.83	0.41
1:E:281:TYR:CD1	1:E:289:LYS:HG3	2.55	0.41
1:E:282:ILE:HD13	1:E:304:ILE:HG12	2.03	0.41
1:E:460:LEU:CD1	1:E:551:PHE:HB3	2.51	0.41
1:F:19:LEU:CD2	1:F:80:ARG:CB	2.93	0.41
1:F:420:PHE:CD2	1:F:421:GLY:O	2.74	0.41
1:F:476:GLN:O	1:F:480:PHE:CD2	2.74	0.41
1:F:538:HIS:CD2	1:F:539:MET:HG2	2.55	0.41
1:F:624:PHE:CE2	1:F:625:HIS:O	2.74	0.41
1:G:113:VAL:CG2	1:G:114:PHE:CD2	2.96	0.41
1:G:460:LEU:CD1	1:G:551:PHE:HB3	2.51	0.41
1:G:554:PHE:CD1	1:G:617:LEU:CD1	3.04	0.41
1:H:398:LYS:HE2	1:H:398:LYS:CA	2.47	0.41
1:H:476:GLN:O	1:H:480:PHE:CD2	2.74	0.41
1:J:99:ARG:CD	1:J:102:CYS:SG	3.09	0.41
1:J:319:SER:O	1:J:323:TRP:CD1	2.74	0.41
1:J:378:TYR:CD1	1:J:382:GLU:HG2	2.56	0.41
1:J:541:ILE:CG2	1:J:622:ILE:CD1	2.99	0.41
1:K:6:GLN:NE2	1:K:105:ILE:HA	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:319:SER:O	1:K:323:TRP:CD1	2.74	0.41
1:L:554:PHE:CD1	1:L:617:LEU:CD1	3.04	0.41
1:L:97:LEU:O	1:L:97:LEU:HD23	2.20	0.41
1:M:181:TRP:HZ2	1:M:188:LYS:HG3	1.86	0.41
1:M:272:ARG:NH1	1:M:316:TYR:O	2.54	0.41
1:M:420:PHE:HB2	1:M:423:ASP:OD1	2.21	0.41
1:M:438:PHE:HE1	1:M:440:TYR:HH	1.64	0.41
1:M:554:PHE:HD1	1:M:617:LEU:HD11	1.82	0.41
1:M:64:TYR:CE2	1:M:95:ALA:HA	2.55	0.41
1:A:161:ARG:HB3	1:A:353:ARG:HA	2.03	0.41
1:A:181:TRP:HZ2	1:A:188:LYS:HG3	1.86	0.41
1:A:306:GLU:HB3	1:A:307:SER:CA	2.51	0.41
1:D:385:PHE:CE2	1:D:388:VAL:HG23	2.56	0.41
1:D:539:MET:HB3	1:D:539:MET:HE2	1.96	0.41
1:D:460:LEU:CD1	1:D:551:PHE:HB3	2.51	0.41
1:D:97:LEU:HD23	1:D:97:LEU:O	2.20	0.41
1:E:200:MET:HA	1:E:200:MET:HE3	2.03	0.41
1:E:240:LEU:HD13	1:E:418:ILE:HG22	2.02	0.41
1:E:363:PHE:HA	1:E:366:ASN:ND2	2.34	0.41
1:F:87:MET:HB3	1:F:87:MET:HE2	1.85	0.41
1:H:538:HIS:CD2	1:H:539:MET:HG2	2.55	0.41
1:H:460:LEU:CD1	1:H:551:PHE:HB3	2.51	0.41
1:H:624:PHE:CE2	1:H:625:HIS:O	2.74	0.41
1:I:305:ILE:HD13	1:I:305:ILE:C	2.41	0.41
1:I:420:PHE:CD2	1:I:421:GLY:O	2.74	0.41
1:I:513:THR:HG23	1:I:516:GLN:N	2.25	0.41
1:I:540:LEU:CD2	1:I:541:ILE:HD11	2.50	0.41
1:J:306:GLU:HB3	1:J:307:SER:CA	2.51	0.41
1:J:161:ARG:HB3	1:J:353:ARG:HA	2.03	0.41
1:J:39:LEU:HD11	1:J:43:THR:OG1	2.20	0.41
1:J:403:ILE:HG23	1:J:622:ILE:HG23	2.02	0.41
1:J:624:PHE:CE2	1:J:625:HIS:O	2.74	0.41
1:L:208:TYR:HE2	1:L:212:ARG:HD2	1.85	0.41
1:L:305:ILE:HD13	1:L:305:ILE:C	2.41	0.41
1:L:476:GLN:O	1:L:480:PHE:CD2	2.74	0.41
1:L:541:ILE:CG2	1:L:622:ILE:CD1	2.99	0.41
1:L:541:ILE:N	1:L:541:ILE:CD1	2.83	0.41
1:M:44:LEU:HD11	1:M:341:ASN:CG	2.40	0.41
1:M:476:GLN:O	1:M:480:PHE:CD2	2.74	0.41
1:M:541:ILE:CD1	1:M:541:ILE:N	2.83	0.41
1:M:554:PHE:CD1	1:M:617:LEU:CD1	3.04	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:570:GLU:HG2	1:M:571:ASN:H	1.85	0.41
1:M:77:GLU:HA	1:M:80:ARG:HH21	1.83	0.41
1:A:385:PHE:CE1	1:A:559:ASP:CB	3.04	0.41
1:C:97:LEU:HD12	1:C:175:ILE:HG22	2.03	0.41
1:C:1:THR:HG23	1:C:3:ALA:N	2.35	0.41
1:C:105:ILE:O	1:C:527:SER:HA	2.21	0.41
1:C:403:ILE:HG23	1:C:622:ILE:HG23	2.02	0.41
1:D:305:ILE:C	1:D:305:ILE:HD13	2.41	0.41
1:D:30:ASP:CB	1:D:33:LEU:HB2	2.50	0.41
1:D:44:LEU:HD21	1:D:341:ASN:HB3	2.03	0.41
1:D:476:GLN:O	1:D:480:PHE:CD2	2.74	0.41
1:D:512:ARG:HG2	1:D:530:TYR:CE2	2.56	0.41
1:D:511:VAL:HG23	1:D:531:CYS:CB	2.50	0.41
1:E:303:ASP:CG	1:E:312:LYS:HZ2	2.24	0.41
1:E:420:PHE:HB2	1:E:423:ASP:OD1	2.21	0.41
1:E:89:VAL:CG1	1:E:90:TYR:N	2.83	0.41
1:F:10:MET:CB	1:F:11:PRO:HD3	2.48	0.41
1:F:612:THR:HB	1:F:613:PRO:HD2	2.03	0.41
1:G:181:TRP:HZ2	1:G:188:LYS:HG3	1.85	0.41
1:G:30:ASP:CB	1:G:33:LEU:HB2	2.50	0.41
1:G:30:ASP:CG	1:G:33:LEU:HD13	2.40	0.41
1:G:420:PHE:HB2	1:G:423:ASP:OD1	2.21	0.41
1:H:119:VAL:HA	1:H:120:PRO:HD3	1.87	0.41
1:H:181:TRP:HZ2	1:H:188:LYS:HG3	1.86	0.41
1:H:250:PRO:HD2	1:H:253:TYR:CE1	2.56	0.41
1:H:282:ILE:HG12	1:H:290:ILE:HG13	2.01	0.41
1:H:511:VAL:HG23	1:H:531:CYS:CB	2.50	0.41
1:H:540:LEU:CD2	1:H:541:ILE:HD11	2.50	0.41
1:I:112:GLU:OE1	1:I:514:PHE:CD2	2.73	0.41
1:I:121:ALA:CB	1:I:238:THR:CG2	2.95	0.41
1:I:385:PHE:CE1	1:I:559:ASP:CB	3.04	0.41
1:I:398:LYS:HE2	1:I:398:LYS:CA	2.47	0.41
1:I:414:LEU:HB3	1:I:418:ILE:HD11	1.99	0.41
1:I:420:PHE:HB2	1:I:423:ASP:OD1	2.21	0.41
1:I:460:LEU:CB	1:I:483:LEU:HD21	2.51	0.41
1:I:558:THR:CG2	1:I:559:ASP:N	2.82	0.41
1:J:1:THR:HG23	1:J:3:ALA:N	2.36	0.41
1:J:279:MET:HB3	1:J:281:TYR:CE2	2.55	0.41
1:J:385:PHE:CE1	1:J:559:ASP:CB	3.04	0.41
1:K:30:ASP:CB	1:K:33:LEU:HB2	2.50	0.41
1:K:540:LEU:CD2	1:K:541:ILE:HD11	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:57:THR:CG2	1:K:58:GLU:N	2.83	0.41
1:K:99:ARG:O	1:K:102:CYS:HB2	2.20	0.41
1:L:306:GLU:HB3	1:L:307:SER:CA	2.51	0.41
1:L:30:ASP:CB	1:L:33:LEU:HB2	2.50	0.41
1:L:612:THR:HB	1:L:613:PRO:HD2	2.03	0.41
1:M:306:GLU:HB3	1:M:307:SER:CA	2.51	0.41
1:M:420:PHE:CD2	1:M:421:GLY:O	2.74	0.41
1:M:405:THR:CG2	1:M:624:PHE:HD1	2.25	0.41
1:A:319:SER:O	1:A:323:TRP:CD1	2.74	0.41
1:A:39:LEU:HD11	1:A:43:THR:OG1	2.20	0.41
1:C:13:PHE:HB2	1:C:108:PRO:HG2	2.02	0.41
1:C:254:SER:O	1:C:331:ILE:HD11	2.21	0.41
1:C:69:PHE:HE1	1:C:102:CYS:SG	2.23	0.41
1:D:105:ILE:O	1:D:527:SER:HA	2.21	0.41
1:D:540:LEU:CD2	1:D:541:ILE:HD11	2.50	0.41
1:E:99:ARG:O	1:E:102:CYS:HB2	2.21	0.41
1:E:44:LEU:HD21	1:E:341:ASN:HB3	2.03	0.41
1:E:321:HIS:CD2	1:E:364:ILE:CD1	2.99	0.41
1:E:39:LEU:HD11	1:E:43:THR:OG1	2.20	0.41
1:F:192:ARG:HH22	1:F:594:MET:HG3	1.80	0.41
1:G:624:PHE:CE2	1:G:625:HIS:O	2.74	0.41
1:H:258:LEU:HD13	1:H:330:ASN:ND2	2.27	0.41
1:H:319:SER:O	1:H:323:TRP:CD1	2.74	0.41
1:H:97:LEU:HA	1:H:527:SER:CB	2.49	0.41
1:H:97:LEU:HD23	1:H:97:LEU:O	2.20	0.41
1:I:208:TYR:HE2	1:I:212:ARG:HD2	1.85	0.41
1:I:264:GLN:HE21	1:J:224:HIS:CE1	2.18	0.41
1:I:460:LEU:CD1	1:I:551:PHE:HB3	2.51	0.41
1:I:612:THR:HB	1:I:613:PRO:HD2	2.03	0.41
1:J:157:LEU:N	1:J:157:LEU:CD1	2.83	0.41
1:J:300:ILE:HG22	1:J:312:LYS:HZ1	1.86	0.41
1:J:407:ILE:CD1	1:J:431:HIS:CD2	3.04	0.41
1:J:554:PHE:CD1	1:J:617:LEU:CD1	3.04	0.41
1:K:44:LEU:HD21	1:K:341:ASN:HB3	2.03	0.41
1:K:558:THR:CG2	1:K:559:ASP:N	2.82	0.41
1:L:30:ASP:CG	1:L:33:LEU:HD13	2.40	0.41
1:L:540:LEU:CD2	1:L:541:ILE:HD11	2.50	0.41
1:M:1:THR:HG23	1:M:3:ALA:N	2.35	0.41
1:M:363:PHE:HA	1:M:366:ASN:ND2	2.34	0.41
1:M:44:LEU:HD21	1:M:341:ASN:HB3	2.03	0.41
1:M:541:ILE:CG2	1:M:622:ILE:CD1	2.99	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:385:PHE:CE2	1:A:388:VAL:HG23	2.56	0.40
1:A:476:GLN:O	1:A:480:PHE:CD2	2.74	0.40
1:A:196:LEU:HD11	1:A:580:TYR:O	2.21	0.40
1:A:87:MET:HE2	1:A:87:MET:HB3	1.84	0.40
1:C:106:THR:CG2	1:C:107:VAL:N	2.81	0.40
1:C:196:LEU:HD11	1:C:580:TYR:O	2.21	0.40
1:C:525:GLU:CA	1:C:574:CYS:SG	3.10	0.40
1:C:612:THR:HB	1:C:613:PRO:HD2	2.03	0.40
1:D:306:GLU:HB3	1:D:307:SER:CA	2.51	0.40
1:D:541:ILE:CG2	1:D:622:ILE:CD1	2.98	0.40
1:E:385:PHE:CE1	1:E:559:ASP:CB	3.04	0.40
1:E:570:GLU:HG2	1:E:571:ASN:H	1.85	0.40
1:E:196:LEU:HD11	1:E:580:TYR:O	2.21	0.40
1:F:160:PHE:CD1	1:F:160:PHE:C	2.95	0.40
1:F:82:ILE:CG2	1:F:83:VAL:N	2.83	0.40
1:G:420:PHE:CD2	1:G:421:GLY:O	2.74	0.40
1:G:196:LEU:HD11	1:G:580:TYR:O	2.21	0.40
1:H:407:ILE:CD1	1:H:431:HIS:CD2	3.04	0.40
1:H:570:GLU:HG2	1:H:571:ASN:H	1.85	0.40
1:H:61:VAL:CG2	1:H:62:ALA:N	2.83	0.40
1:H:84:ASN:ND2	1:H:87:MET:HE1	2.37	0.40
1:I:499:ARG:HD2	1:I:503:ASP:CB	2.49	0.40
1:I:541:ILE:N	1:I:541:ILE:CD1	2.82	0.40
1:J:30:ASP:CB	1:J:33:LEU:HB2	2.50	0.40
1:J:508:ILE:HD11	1:J:531:CYS:HA	2.03	0.40
1:J:543:ARG:HD3	1:J:543:ARG:HH11	1.74	0.40
1:K:13:PHE:HB2	1:K:108:PRO:HG2	2.02	0.40
1:K:161:ARG:HB3	1:K:353:ARG:HA	2.03	0.40
1:K:385:PHE:CE2	1:K:388:VAL:HG23	2.56	0.40
1:K:476:GLN:O	1:K:480:PHE:CD2	2.74	0.40
1:L:157:LEU:CD1	1:L:157:LEU:N	2.83	0.40
1:L:511:VAL:HG23	1:L:531:CYS:CB	2.50	0.40
1:L:512:ARG:HG2	1:L:530:TYR:CE2	2.56	0.40
1:L:196:LEU:HD11	1:L:580:TYR:O	2.21	0.40
1:L:82:ILE:CG2	1:L:83:VAL:N	2.83	0.40
1:A:102:CYS:HB3	1:A:105:ILE:CG2	2.52	0.40
1:A:115:PRO:HD3	1:A:417:GLY:HA3	2.01	0.40
1:A:624:PHE:CE2	1:A:625:HIS:O	2.74	0.40
1:C:319:SER:O	1:C:323:TRP:CD1	2.74	0.40
1:C:476:GLN:O	1:C:480:PHE:CD2	2.74	0.40
1:C:524:SER:OG	1:C:573:VAL:HB	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:540:LEU:CD2	1:C:541:ILE:HD11	2.50	0.40
1:D:102:CYS:HB3	1:D:105:ILE:CG2	2.51	0.40
1:D:110:ILE:HD11	1:D:168:ALA:CB	2.51	0.40
1:D:113:VAL:CG2	1:D:114:PHE:N	2.83	0.40
1:D:181:TRP:HZ2	1:D:188:LYS:HG3	1.86	0.40
1:D:319:SER:O	1:D:323:TRP:CD1	2.74	0.40
1:E:10:MET:CB	1:E:11:PRO:HD3	2.48	0.40
1:E:294:ILE:HA	1:E:375:PHE:HE2	1.86	0.40
1:F:102:CYS:HB3	1:F:105:ILE:CG2	2.52	0.40
1:F:319:SER:O	1:F:323:TRP:CD1	2.74	0.40
1:G:499:ARG:HD2	1:G:503:ASP:CB	2.49	0.40
1:G:508:ILE:HD11	1:G:531:CYS:HA	2.02	0.40
1:G:403:ILE:HG22	1:G:622:ILE:HG12	2.04	0.40
1:H:99:ARG:O	1:H:102:CYS:HB2	2.20	0.40
1:H:157:LEU:N	1:H:157:LEU:CD1	2.83	0.40
1:H:90:TYR:C	1:H:90:TYR:CD1	2.95	0.40
1:H:97:LEU:HD12	1:H:175:ILE:HG22	2.02	0.40
1:I:407:ILE:CD1	1:I:431:HIS:CD2	3.04	0.40
1:I:570:GLU:HG2	1:I:571:ASN:H	1.86	0.40
1:J:164:ILE:CG2	1:J:165:GLY:N	2.82	0.40
1:J:476:GLN:O	1:J:480:PHE:CD2	2.74	0.40
1:K:303:ASP:O	1:K:307:SER:HB2	2.22	0.40
1:K:420:PHE:HB2	1:K:423:ASP:OD1	2.21	0.40
1:K:105:ILE:O	1:K:527:SER:HA	2.21	0.40
1:K:554:PHE:CD1	1:K:617:LEU:CD1	3.04	0.40
1:K:624:PHE:CE2	1:K:625:HIS:O	2.74	0.40
1:L:105:ILE:O	1:L:527:SER:HA	2.21	0.40
1:L:261:VAL:HG12	1:L:262:ASP:N	2.35	0.40
1:L:36:VAL:CG2	1:L:37:GLY:N	2.82	0.40
1:M:106:THR:HG22	1:M:107:VAL:N	2.36	0.40
1:M:196:LEU:HD11	1:M:580:TYR:O	2.21	0.40
1:M:319:SER:O	1:M:323:TRP:CD1	2.74	0.40
1:M:624:PHE:CE2	1:M:625:HIS:O	2.74	0.40
1:A:157:LEU:CD1	1:A:157:LEU:N	2.83	0.40
1:A:160:PHE:C	1:A:160:PHE:CD1	2.95	0.40
1:A:22:GLU:CD	1:A:22:GLU:H	2.25	0.40
1:A:420:PHE:HB2	1:A:423:ASP:OD1	2.21	0.40
1:A:44:LEU:HD11	1:A:341:ASN:CG	2.40	0.40
1:A:105:ILE:O	1:A:527:SER:HA	2.21	0.40
1:A:558:THR:CG2	1:A:559:ASP:N	2.82	0.40
1:A:59:LEU:HD12	1:A:87:MET:CG	2.47	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:102:CYS:HB3	1:C:105:ILE:CG2	2.52	0.40
1:D:281:TYR:CD1	1:D:281:TYR:C	2.95	0.40
1:D:290:ILE:CD1	1:D:312:LYS:CD	2.93	0.40
1:D:407:ILE:CD1	1:D:431:HIS:CD2	3.04	0.40
1:E:282:ILE:CD1	1:E:290:ILE:HD11	2.52	0.40
1:E:612:THR:HB	1:E:613:PRO:HD2	2.03	0.40
1:F:460:LEU:CB	1:F:483:LEU:HD21	2.52	0.40
1:G:157:LEU:N	1:G:157:LEU:CD1	2.83	0.40
1:G:385:PHE:CE2	1:G:388:VAL:HG23	2.56	0.40
1:G:407:ILE:CD1	1:G:431:HIS:CD2	3.04	0.40
1:G:103:LYS:NZ	1:G:525:GLU:O	2.53	0.40
1:H:102:CYS:HB3	1:H:105:ILE:CG2	2.51	0.40
1:H:305:ILE:C	1:H:305:ILE:HD13	2.41	0.40
1:I:103:LYS:HB2	1:I:526:ASP:C	2.42	0.40
1:I:306:GLU:HB3	1:I:307:SER:CA	2.51	0.40
1:J:110:ILE:HD11	1:J:168:ALA:CB	2.51	0.40
1:J:181:TRP:HZ2	1:J:188:LYS:HG3	1.86	0.40
1:K:282:ILE:HG12	1:K:290:ILE:HG13	2.01	0.40
1:L:118:PHE:N	1:L:118:PHE:CD1	2.88	0.40
1:L:17:THR:HG21	1:L:241:VAL:HA	2.03	0.40
1:L:271:GLU:O	1:L:275:ASP:HB2	2.21	0.40
1:L:282:ILE:CD1	1:L:290:ILE:HD11	2.52	0.40
1:M:281:TYR:CD1	1:M:281:TYR:C	2.95	0.40
1:M:460:LEU:CB	1:M:483:LEU:HD21	2.51	0.40
1:M:460:LEU:CD1	1:M:551:PHE:HB3	2.51	0.40
1:M:558:THR:HG21	1:M:592:LYS:HZ2	1.86	0.40
1:M:620:ILE:CD1	1:M:620:ILE:N	2.82	0.40
1:A:110:ILE:HD11	1:A:168:ALA:CB	2.51	0.40
1:A:119:VAL:HA	1:A:120:PRO:HD3	1.87	0.40
1:A:413:GLU:OE2	1:A:415:SER:HB2	2.22	0.40
1:A:463:LYS:HA	1:A:471:LEU:HD21	2.04	0.40
1:A:460:LEU:CB	1:A:483:LEU:HD21	2.52	0.40
1:C:385:PHE:CE2	1:C:388:VAL:HG23	2.56	0.40
1:C:463:LYS:HA	1:C:471:LEU:HD21	2.04	0.40
1:C:90:TYR:C	1:C:90:TYR:CD1	2.95	0.40
1:D:261:VAL:HG23	1:D:323:TRP:CH2	2.57	0.40
1:D:282:ILE:CD1	1:D:290:ILE:HD11	2.52	0.40
1:E:620:ILE:N	1:E:620:ILE:CD1	2.82	0.40
1:F:161:ARG:HB3	1:F:353:ARG:HA	2.03	0.40
1:G:540:LEU:CD2	1:G:541:ILE:HD11	2.50	0.40
1:G:551:PHE:CD1	1:G:622:ILE:HD12	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:353:ARG:HH11	1:H:353:ARG:HD2	1.74	0.40
1:H:357:PHE:CD1	1:H:357:PHE:C	2.95	0.40
1:H:385:PHE:CE2	1:H:388:VAL:HG23	2.57	0.40
1:H:395:ILE:CD1	1:H:620:ILE:CG2	2.95	0.40
1:I:385:PHE:CE2	1:I:388:VAL:HG23	2.56	0.40
1:I:414:LEU:CB	1:I:418:ILE:CD1	2.94	0.40
1:J:270:ARG:CD	1:J:363:PHE:HZ	2.35	0.40
1:J:413:GLU:OE2	1:J:415:SER:HB2	2.22	0.40
1:J:14:LYS:NZ	1:J:514:PHE:HZ	2.19	0.40
1:K:110:ILE:HD11	1:K:168:ALA:CB	2.52	0.40
1:H:605:ARG:HH22	1:K:38:ILE:HB	1.85	0.40
1:K:460:LEU:CB	1:K:483:LEU:HD21	2.52	0.40
1:K:602:ILE:HG22	1:K:604:ALA:H	1.86	0.40
1:L:160:PHE:CD1	1:L:160:PHE:C	2.95	0.40
1:L:36:VAL:HG21	1:L:59:LEU:CG	2.52	0.40
1:L:620:ILE:N	1:L:620:ILE:CD1	2.82	0.40
1:M:110:ILE:HD11	1:M:168:ALA:CB	2.51	0.40
1:M:385:PHE:CE1	1:M:559:ASP:CB	3.04	0.40
1:A:121:ALA:CB	1:A:238:THR:CG2	2.95	0.40
1:C:121:ALA:CB	1:C:238:THR:CG2	2.95	0.40
1:C:160:PHE:CD1	1:C:160:PHE:C	2.95	0.40
1:C:161:ARG:HB3	1:C:353:ARG:HA	2.03	0.40
1:C:249:ARG:NH1	1:C:249:ARG:HB3	2.37	0.40
1:C:44:LEU:HD21	1:C:341:ASN:HB3	2.04	0.40
1:C:584:ARG:HG2	1:C:585:ASP:HB2	2.03	0.40
1:D:282:ILE:HG13	1:D:290:ILE:HG12	2.01	0.40
1:D:36:VAL:CG2	1:D:37:GLY:H	2.32	0.40
1:D:413:GLU:OE2	1:D:415:SER:HB2	2.22	0.40
1:D:44:LEU:HD11	1:D:341:ASN:CG	2.41	0.40
1:E:208:TYR:HE2	1:E:212:ARG:HD2	1.85	0.40
1:E:22:GLU:H	1:E:22:GLU:CD	2.25	0.40
1:E:281:TYR:C	1:E:281:TYR:CD1	2.95	0.40
1:E:413:GLU:OE2	1:E:415:SER:HB2	2.22	0.40
1:E:463:LYS:HA	1:E:471:LEU:HD21	2.04	0.40
1:E:476:GLN:O	1:E:480:PHE:CD2	2.74	0.40
1:F:114:PHE:HB2	1:F:117:ARG:CD	2.49	0.40
1:G:282:ILE:CD1	1:G:290:ILE:HD11	2.52	0.40
1:G:261:VAL:HG23	1:G:323:TRP:CH2	2.57	0.40
1:G:405:THR:O	1:G:406:LEU:HD12	2.22	0.40
1:H:21:ARG:O	1:H:23:LYS:N	2.55	0.40
1:H:282:ILE:CD1	1:H:290:ILE:HD11	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:554:PHE:CD1	1:H:617:LEU:CD1	3.04	0.40
1:H:196:LEU:HD11	1:H:580:TYR:O	2.21	0.40
1:I:181:TRP:HZ2	1:I:188:LYS:HG3	1.86	0.40
1:I:413:GLU:OE2	1:I:415:SER:HB2	2.22	0.40
1:I:539:MET:HE2	1:I:539:MET:HB3	1.98	0.40
1:I:554:PHE:CD1	1:I:617:LEU:CD1	3.04	0.40
1:I:624:PHE:CE2	1:I:625:HIS:O	2.74	0.40
1:I:55:GLU:OE1	1:I:87:MET:HE1	2.21	0.40
1:J:200:MET:HE3	1:J:200:MET:HA	2.03	0.40
1:J:270:ARG:NH1	1:J:271:GLU:OE1	2.54	0.40
1:J:261:VAL:HG23	1:J:323:TRP:CH2	2.57	0.40
1:J:357:PHE:C	1:J:357:PHE:CD1	2.95	0.40
1:J:321:HIS:CD2	1:J:364:ILE:CD1	2.99	0.40
1:J:385:PHE:CE2	1:J:388:VAL:HG23	2.56	0.40
1:J:79:ALA:HB1	1:J:83:VAL:HG13	2.04	0.40
1:K:102:CYS:HB3	1:K:105:ILE:CG2	2.52	0.40
1:K:463:LYS:HA	1:K:471:LEU:HD21	2.04	0.40
1:L:102:CYS:HB3	1:L:105:ILE:CG2	2.51	0.40
1:L:385:PHE:CE2	1:L:388:VAL:HG23	2.56	0.40
1:L:403:ILE:HG23	1:L:622:ILE:HG23	2.02	0.40
1:M:103:LYS:HD2	1:M:584:ARG:NH2	2.36	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

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	624/626 (100%)	590 (95%)	30 (5%)	4 (1%)	28	71
1	C	624/626 (100%)	583 (93%)	32 (5%)	9 (1%)	13	54
1	D	624/626 (100%)	590 (95%)	30 (5%)	4 (1%)	28	71
1	E	624/626 (100%)	583 (93%)	34 (5%)	7 (1%)	17	60

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	F	624/626 (100%)	589 (94%)	31 (5%)	4 (1%)	28	71
1	G	624/626 (100%)	581 (93%)	41 (7%)	2 (0%)	44	81
1	H	624/626 (100%)	577 (92%)	41 (7%)	6 (1%)	18	61
1	I	624/626 (100%)	591 (95%)	29 (5%)	4 (1%)	28	71
1	J	624/626 (100%)	587 (94%)	34 (5%)	3 (0%)	32	74
1	K	624/626 (100%)	576 (92%)	38 (6%)	10 (2%)	11	51
1	L	624/626 (100%)	586 (94%)	33 (5%)	5 (1%)	22	66
1	M	624/626 (100%)	584 (94%)	37 (6%)	3 (0%)	32	74
All	All	7488/7512 (100%)	7017 (94%)	410 (6%)	61 (1%)	27	66

All (61) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	20	THR
1	A	524	SER
1	C	20	THR
1	C	34	LYS
1	C	524	SER
1	D	20	THR
1	D	524	SER
1	E	20	THR
1	E	304	ILE
1	E	524	SER
1	F	20	THR
1	G	20	THR
1	H	22	GLU
1	H	519	ALA
1	I	16	LEU
1	K	20	THR
1	K	121	ALA
1	K	519	ALA
1	K	524	SER
1	L	20	THR
1	L	524	SER
1	M	20	THR
1	M	519	ALA
1	E	294	ILE
1	I	20	THR
1	F	574	CYS

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Mol	Chain	Res	Type
1	H	42	GLY
1	J	279	MET
1	K	21	ARG
1	L	240	LEU
1	A	21	ARG
1	A	102	CYS
1	C	102	CYS
1	D	21	ARG
1	D	102	CYS
1	E	21	ARG
1	E	102	CYS
1	F	21	ARG
1	F	102	CYS
1	G	21	ARG
1	H	102	CYS
1	K	102	CYS
1	L	21	ARG
1	L	102	CYS
1	M	21	ARG
1	C	25	PRO
1	C	294	ILE
1	H	23	LYS
1	J	103	LYS
1	J	241	VAL
1	C	533	CYS
1	I	278	ASN
1	K	297	GLY
1	K	533	CYS
1	K	120	PRO
1	C	573	VAL
1	I	36	VAL
1	C	589	PRO
1	E	305	ILE
1	H	520	GLY
1	K	520	GLY

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

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	556/556 (100%)	537 (97%)	19 (3%)	42	69
1	C	556/556 (100%)	534 (96%)	22 (4%)	36	65
1	D	556/556 (100%)	534 (96%)	22 (4%)	36	65
1	E	556/556 (100%)	534 (96%)	22 (4%)	36	65
1	F	556/556 (100%)	536 (96%)	20 (4%)	40	68
1	G	556/556 (100%)	535 (96%)	21 (4%)	38	67
1	H	556/556 (100%)	534 (96%)	22 (4%)	36	65
1	I	556/556 (100%)	532 (96%)	24 (4%)	33	64
1	J	556/556 (100%)	533 (96%)	23 (4%)	35	65
1	K	556/556 (100%)	532 (96%)	24 (4%)	33	64
1	L	556/556 (100%)	537 (97%)	19 (3%)	42	69
1	M	556/556 (100%)	537 (97%)	19 (3%)	42	69
All	All	6672/6672 (100%)	6415 (96%)	257 (4%)	41	66

All (257) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	97	LEU
1	A	103	LYS
1	A	105	ILE
1	A	111	GLN
1	A	251	GLU
1	A	260	ASP
1	A	305	ILE
1	A	398	LYS
1	A	407	ILE
1	A	418	ILE
1	A	465	ASP
1	A	467	LEU
1	A	469	ASN
1	A	499	ARG
1	A	516	GLN
1	A	584	ARG
1	A	591	LYS
1	A	592	LYS
1	A	620	ILE
1	C	22	GLU

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Mol	Chain	Res	Type
1	C	23	LYS
1	C	97	LEU
1	C	103	LYS
1	C	105	ILE
1	C	111	GLN
1	C	253	TYR
1	C	261	VAL
1	C	281	TYR
1	C	282	ILE
1	C	305	ILE
1	C	398	LYS
1	C	407	ILE
1	C	418	ILE
1	C	467	LEU
1	C	469	ASN
1	C	499	ARG
1	C	516	GLN
1	C	584	ARG
1	C	591	LYS
1	C	592	LYS
1	C	620	ILE
1	D	97	LEU
1	D	103	LYS
1	D	105	ILE
1	D	111	GLN
1	D	151	LEU
1	D	251	GLU
1	D	260	ASP
1	D	262	ASP
1	D	278	ASN
1	D	305	ILE
1	D	398	LYS
1	D	407	ILE
1	D	418	ILE
1	D	465	ASP
1	D	467	LEU
1	D	469	ASN
1	D	499	ARG
1	D	516	GLN
1	D	584	ARG
1	D	591	LYS
1	D	592	LYS

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Mol	Chain	Res	Type
1	D	620	ILE
1	E	97	LEU
1	E	103	LYS
1	E	105	ILE
1	E	111	GLN
1	E	240	LEU
1	E	260	ASP
1	E	278	ASN
1	E	296	HIS
1	E	304	ILE
1	E	305	ILE
1	E	308	SER
1	E	398	LYS
1	E	407	ILE
1	E	418	ILE
1	E	465	ASP
1	E	469	ASN
1	E	499	ARG
1	E	516	GLN
1	E	584	ARG
1	E	591	LYS
1	E	592	LYS
1	E	620	ILE
1	F	97	LEU
1	F	103	LYS
1	F	105	ILE
1	F	111	GLN
1	F	260	ASP
1	F	288	ASN
1	F	305	ILE
1	F	336	HIS
1	F	398	LYS
1	F	407	ILE
1	F	418	ILE
1	F	465	ASP
1	F	469	ASN
1	F	499	ARG
1	F	516	GLN
1	F	525	GLU
1	F	584	ARG
1	F	591	LYS
1	F	592	LYS

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Mol	Chain	Res	Type
1	F	620	ILE
1	G	83	VAL
1	G	87	MET
1	G	88	PHE
1	G	93	SER
1	G	99	ARG
1	G	105	ILE
1	G	111	GLN
1	G	260	ASP
1	G	275	ASP
1	G	305	ILE
1	G	336	HIS
1	G	398	LYS
1	G	407	ILE
1	G	418	ILE
1	G	469	ASN
1	G	499	ARG
1	G	516	GLN
1	G	584	ARG
1	G	591	LYS
1	G	592	LYS
1	G	620	ILE
1	H	21	ARG
1	H	78	GLN
1	H	97	LEU
1	H	103	LYS
1	H	105	ILE
1	H	111	GLN
1	H	260	ASP
1	H	305	ILE
1	H	398	LYS
1	H	407	ILE
1	H	418	ILE
1	H	465	ASP
1	H	467	LEU
1	H	469	ASN
1	H	499	ARG
1	H	516	GLN
1	H	524	SER
1	H	525	GLU
1	H	584	ARG
1	H	591	LYS

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Mol	Chain	Res	Type
1	H	592	LYS
1	H	620	ILE
1	I	15	HIS
1	I	19	LEU
1	I	22	GLU
1	I	97	LEU
1	I	105	ILE
1	I	108	PRO
1	I	111	GLN
1	I	253	TYR
1	I	260	ASP
1	I	305	ILE
1	I	398	LYS
1	I	407	ILE
1	I	418	ILE
1	I	465	ASP
1	I	467	LEU
1	I	469	ASN
1	I	499	ARG
1	I	516	GLN
1	I	532	SER
1	I	533	CYS
1	I	584	ARG
1	I	591	LYS
1	I	592	LYS
1	I	620	ILE
1	J	14	LYS
1	J	83	VAL
1	J	87	MET
1	J	88	PHE
1	J	93	SER
1	J	99	ARG
1	J	105	ILE
1	J	111	GLN
1	J	245	GLN
1	J	251	GLU
1	J	260	ASP
1	J	305	ILE
1	J	398	LYS
1	J	407	ILE
1	J	418	ILE
1	J	465	ASP

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Mol	Chain	Res	Type
1	J	469	ASN
1	J	499	ARG
1	J	514	PHE
1	J	584	ARG
1	J	591	LYS
1	J	592	LYS
1	J	620	ILE
1	K	38	ILE
1	K	97	LEU
1	K	103	LYS
1	K	105	ILE
1	K	111	GLN
1	K	119	VAL
1	K	122	GLU
1	K	240	LEU
1	K	260	ASP
1	K	262	ASP
1	K	265	ASP
1	K	398	LYS
1	K	407	ILE
1	K	418	ILE
1	K	465	ASP
1	K	467	LEU
1	K	468	ASN
1	K	469	ASN
1	K	499	ARG
1	K	516	GLN
1	K	584	ARG
1	K	591	LYS
1	K	592	LYS
1	K	620	ILE
1	L	97	LEU
1	L	103	LYS
1	L	105	ILE
1	L	111	GLN
1	L	240	LEU
1	L	253	TYR
1	L	260	ASP
1	L	305	ILE
1	L	398	LYS
1	L	407	ILE
1	L	418	ILE

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Mol	Chain	Res	Type
1	L	465	ASP
1	L	469	ASN
1	L	499	ARG
1	L	516	GLN
1	L	584	ARG
1	L	591	LYS
1	L	592	LYS
1	L	620	ILE
1	M	83	VAL
1	M	87	MET
1	M	88	PHE
1	M	93	SER
1	M	99	ARG
1	M	105	ILE
1	M	111	GLN
1	M	260	ASP
1	M	305	ILE
1	M	398	LYS
1	M	407	ILE
1	M	418	ILE
1	M	469	ASN
1	M	499	ARG
1	M	516	GLN
1	M	584	ARG
1	M	591	LYS
1	M	592	LYS
1	M	620	ILE

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (146) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	6	GLN
1	A	81	GLN
1	A	84	ASN
1	A	111	GLN
1	A	125	ASN
1	A	138	GLN
1	A	172	HIS
1	A	278	ASN
1	A	288	ASN
1	A	336	HIS
1	A	339	GLN

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Mol	Chain	Res	Type
1	A	371	HIS
1	A	502	GLN
1	A	625	HIS
1	C	6	GLN
1	C	52	HIS
1	C	84	ASN
1	C	111	GLN
1	C	138	GLN
1	C	172	HIS
1	C	224	HIS
1	C	264	GLN
1	C	278	ASN
1	C	288	ASN
1	C	336	HIS
1	C	339	GLN
1	C	371	HIS
1	C	502	GLN
1	C	625	HIS
1	D	6	GLN
1	D	52	HIS
1	D	81	GLN
1	D	84	ASN
1	D	111	GLN
1	D	138	GLN
1	D	172	HIS
1	D	224	HIS
1	D	278	ASN
1	D	288	ASN
1	D	336	HIS
1	D	371	HIS
1	D	502	GLN
1	D	625	HIS
1	E	6	GLN
1	E	52	HIS
1	E	81	GLN
1	E	84	ASN
1	E	111	GLN
1	E	138	GLN
1	E	172	HIS
1	E	224	HIS
1	E	278	ASN
1	E	288	ASN

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Mol	Chain	Res	Type
1	E	339	GLN
1	E	502	GLN
1	E	625	HIS
1	F	6	GLN
1	F	52	HIS
1	F	81	GLN
1	F	84	ASN
1	F	111	GLN
1	F	138	GLN
1	F	172	HIS
1	F	278	ASN
1	F	371	HIS
1	F	502	GLN
1	F	625	HIS
1	G	6	GLN
1	G	78	GLN
1	G	111	GLN
1	G	138	GLN
1	G	172	HIS
1	G	224	HIS
1	G	264	GLN
1	G	278	ASN
1	G	288	ASN
1	G	371	HIS
1	G	502	GLN
1	G	625	HIS
1	H	6	GLN
1	H	52	HIS
1	H	84	ASN
1	H	111	GLN
1	H	125	ASN
1	H	138	GLN
1	H	172	HIS
1	H	278	ASN
1	H	288	ASN
1	H	371	HIS
1	H	502	GLN
1	H	625	HIS
1	I	6	GLN
1	I	52	HIS
1	I	84	ASN
1	I	111	GLN

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Mol	Chain	Res	Type
1	I	138	GLN
1	I	278	ASN
1	I	288	ASN
1	I	336	HIS
1	I	371	HIS
1	I	502	GLN
1	I	625	HIS
1	J	6	GLN
1	J	78	GLN
1	J	111	GLN
1	J	138	GLN
1	J	172	HIS
1	J	224	HIS
1	J	288	ASN
1	J	336	HIS
1	J	371	HIS
1	J	502	GLN
1	J	625	HIS
1	K	6	GLN
1	K	52	HIS
1	K	81	GLN
1	K	84	ASN
1	K	111	GLN
1	K	172	HIS
1	K	224	HIS
1	K	278	ASN
1	K	288	ASN
1	K	502	GLN
1	K	625	HIS
1	L	6	GLN
1	L	52	HIS
1	L	81	GLN
1	L	84	ASN
1	L	111	GLN
1	L	138	GLN
1	L	172	HIS
1	L	278	ASN
1	L	288	ASN
1	L	502	GLN
1	L	625	HIS
1	M	6	GLN
1	M	78	GLN

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Mol	Chain	Res	Type
1	M	111	GLN
1	M	125	ASN
1	M	138	GLN
1	M	172	HIS
1	M	224	HIS
1	M	288	ASN
1	M	371	HIS
1	M	502	GLN
1	M	625	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 carbohydrates in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

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.